# RP2J Project OOHW application form

Out of hours work approval request form			
No:	Notification date:	Approval date:	Project:
16	16/10/2020		MR82 Shared Path Bridge over Newcastle Road, Jesmond
A. Contact details	Name	Mobile number	Email
Contractor Environmental Site Representative	James Douglas		
Contractor Construction Manager	Sebastian Farrell		
Contractor Foreman	Nathan Mills		
Contractor Project Engineer	Tony Trajkov		
B. Details of work:			
Include a map showing location of work extent and nearest sensitive receivers			
Location / chainages:	Newcastle Road – Chainage: CH60 – CH223 – Refer Appendix 1 (Figure 1)		
NCA/s:	NCA 5 & NCA 3		

Description of works – also include a brief description of the sequence of activities:

#### Asphalt Works - includes the following scope of works;

- Milling of existing road pavement to design profile;
- Remove concrete barriers (F Type) and implement temporary traffic controls;
- Place AC layers (1 and 2) east of traffic lights (Chainage 60 Chainage 145);
- Place AC layers (3 and AC14) east of traffic lights (Chainage 145 Chainage 223).

These works are to be completed over four nights, as follows;

### Shift 1 - Monday 2<sup>nd</sup> November;

- Mobilise milling equipment and lighting towers (during standard hours);
- Complete pre-start briefings with project teams;
- Complete milling operations to pavement design depth from; Chainage 60 Chainage 223.

#### Shift 2 - Tuesday 3<sup>rd</sup> November;

- Mobilise plant and lighting towers (during standard hours);
- · Complete pre-start briefings with project teams;
- Establish traffic control on Newcastle Road and implement road closure (single lane);
- Remove concrete barriers;
- Implement temporary traffic controls required for subsequent works;
- Remove traffic controls and re-open Newcastle Road lane closure.

#### Respite - Wednesday 4th November;

No works undertaken out of hours.

#### Shift 3 - Thursday 5th November;

- Mobilise plant and lighting towers (during standard hours);
- Complete pre-start briefings with project teams;
- Establish traffic control and road closure on Newcastle Road (single lane);
- Place new asphalt in accordance with permanent design;
- Remove traffic controls and re-open Newcastle Road closure.

#### Shift 4 - Friday 6th November;

- Mobilise plant and lighting towers (during standard hours);
- Complete pre-start briefings with project teams;
- Establish traffic control and road closure on Newcastle Road (single lane);
- Place new asphalt in accordance with permanent design;
- Remove traffic controls and re-open Newcastle Road closure.

The closure of Newcastle Rd East bound left hand (slow) lane, will commence from 7:30pm in accordance with the approved ROL.

Works will occur during OOHW Period 1 (evening) and OOHW Period 2 (night). Works will commence from 8:00pm following the implementation of the required traffic control measures and road closures. Works are expected to be completed by 5.00am.

Out of hours work approval request form		
Machinery/ plant to be used	1 x Milling machine 2 x Rigid Trucks 2 x Lighting tower 3 x Traffic controllers 2 x Light vehicles 3 x Asphalt trucks 1 x Paver 1 X rubber tyred excavator	
Traffic control measures required:	The traffic control scheme will comprise 1 x single lane road closures on Newcastle Road, as follows;  • Newcastle Road east bound; left hand (slow) lane closure from approximately Hill Street to Steel Street intersection.	
Lighting required:	Two lighting towers will be required at the work location and an additional lighting tower will be required at the site compound location.  Consideration will be given to the placement and direction of lighting towers, to mitigate light spillage onto residential property.	
Proposed dates:	This OOHW activity is scheduled for the week commencing 2 <sup>nd</sup> November 2020. It is anticipated this activity will require four nights for completion. The works are scheduled as follows;  • Shift 1 – Monday 2 <sup>nd</sup> November;  • Shift 2 – Tuesday 3 <sup>rd</sup> November;  • Respite (no works undertaken OOH) – Wednesday 4 <sup>th</sup> November;  • Shift 3 – Thursday 5 <sup>th</sup> November;  • Shift 4 – Friday 6 <sup>th</sup> November;  No works will be undertaken during the weekend evening or night period.	
Proposed times:	Start: 7:30pm Completion: 5.00am	
Justification - why does work need to occur outside of standard construction hours?: (attach support information as required)	This activity requires occupation of the east bound left hand (slow) lane; to facilitate the removal of the concrete barriers and to place new asphalt on Newcastle road, in accordance the required pavement design.  The approved ROL excludes daytime road closures, therefore works must be completed outside of the approved project working hours to comply with the approved ROL.  Additionally, it is important that the filling (placement of asphalt) is completed as soon as possible to reduce the time in which a shallow excavation is present on Newcastle Road, eliminating the safety risk to traffic.	
C. Risk assessment		

Out of hours work approval request form			
NML	NCA 5:  Evening – 56  Night – 46  NCA 3:  Evening – 42  Night – 35		
Is the work highly noise intensive? (above 75dB(A) L <sub>Aeq (15 minute)</sub> )	If yes, the work cannot proceed out of hours unless permitted by an EPL;  No - Noise modelling has determined that this activity will not generate high noise levels (>75dB)		
Risk factor category (refer section 4.3 of OOHW protocol):			

#### D. Details of noise or vibration assessment completed:

#### Comments:

**Noise Assessment;** A risk assessment has been undertaken using a noise modelling tool to predict the expected noise impact at individual receivers for this OOHW activity. The input data for noise modelling included, the location of work activity, the type and quantity of plant and equipment, and the duration of operation.

The noise modelling data was assessed against the relevant NML's and sleep disturbance criteria to determine the risk factor in accordance with the OOHW protocol.

#### Noise Modelling;

The noise modelling has been completed initially, by utilising the 'Noise Mitigation Tool' created by RCA (RCA Australia,) to predict sound levels at individual receivers and to allow the noise mitigation requirements to be determined in bulk. Upon further assessment of the predicted Noise levels generated by the RCA noise tool, a distance-based calculation has been applied to determine the distance of specific noise perception levels occurring at individual receivers and subsequently, to determine the mitigation measures to be implemented.

Noise modelling has been completed for OOHW period 1 and 2, then the distance-based calculation applied to provide a visual representation of the noise impact, and to assist with the distribution of notifications.

#### Attenuation Applied to Modelling;

As the noise tool provides predicted levels assuming a direct line of sight to receivers, and therefore does not consider the effects of topography or attenuation provided by physical structures (retaining wall or residential properties), noise modelling was completed again with the inclusion of attenuation measures. This was undertaken to provide a more accurate representation of the impacts to receivers and predicted sound levels, and to facilitate targeted notifications and the application of appropriate mitigation measures corresponding with predicted impacts.

The attenuation measures applied within the supplementary noise modelling included;

- Barrier height of 4m average height of residential property (with direct line of sight to the work activity)
- Barrier height of 2 3m existing and newly constructed retaining wall and embankment located on Newcastle Road
- Distance of barrier (m) distance between the property closest to the noise source (at a selected location relevant to the specific work activity) and the adjacent property. This distance ranged from 20m 40m.

The application of the above attenuation measures resulted in an average reduction of 7-10dB(A), by way of shielding from one residential property (acting as the barrier) to the next property.

#### Noise Modelling Results - Refer Appendix 1 - (Table 1);

- Noise modelling has determined that this OOHW activity will not generate 'high noise' levels, that being, noise levels above >75dBA.
- Noise modelling has determined the following noise impacts;
  - Multiple receivers are predicted to receive noise impacts greater than 5dBA above the RBL;
  - During shift 1. Monday 2<sup>nd</sup> November:
    - The highest level of impact within NCA 5 occurs, at 2A and 2 Coles St (67dBA);
    - The highest level of impact within NCA 3 occurs, at 10 Steel St (57dBA);
  - During shift 2-4, Tuesday 3<sup>rd</sup> to Friday 6<sup>th</sup>;
    - The highest level of impact within NCA 5 occurs, at 2A and 2 Coles St (63 dBA 59dBA);
    - The highest level of impact within NCA 3 occurs, at 10 Steel St (53 dBA 49dBA);

It must be noted that the noise modelling presents a worst-case scenario, as modelling has been based on the activity that is predicted to generate the greatest impact, specifically the milling operations to be undertaken on the Monday 2<sup>nd</sup> Nov. Furthermore, the modelling also assumes all plant and equipment are operating concurrently, presenting the greatest possible impact for the activity.

With regards to the risk determination within the OOHW protocol, each work activity can be categorised by level of noise impact as follows;

- Shift 1, Monday 2<sup>nd</sup> November Exceeds noise levels 25dBA above RBL
- Shift 2, Tuesday 3<sup>rd</sup> November Noise level is 25dBA or less above RBL.
- Shift 3, Thursday 5<sup>th</sup> November Noise level is 25dBA or less above RBL.
- Shift 4, Friday 6<sup>th</sup> November Noise level is 25dBA or less above RBL.

The highest noise impact is predicted to occur during milling operations (Shift 1), subsequent work activities are predicted to have less impact and will not generate noise levels 25dBA above the relevant RBL.

**Refer Appendix 1** (Figure 2) – provides a visual representation of the notification area, residents will receive letter notification prior to the commencement of the OOHW.

**Vibration Assessment;** Plant required to undertake this OOHW activity will not encroach upon the minimum safe working distances.

All plant are tyred equipment and will be restricted to existing roads, therefore predicted vibration levels are expected to be consistent with levels generated by existing traffic.

Vibration levels are considered to be insignificant and are not predicted to exceed the vibration criteria for 'Human Comfort' (BS528-2) or 'Structural Damage' (DIN 4150-3) of property.

#### E. Proposed mitigation measures, including respite

Scheduling and staging of the works have been planned in an effort to reduce the impact upon receivers. The works will be staged to ensure any pre-works can be achieved during standard construction hours, limiting the amount and operation of plant and equipment required during the OOHW periods.

#### Pre-works:

- Consultation briefing with project team.
- Mobilisation of plant and equipment during standard hours, where possible.
- Preparation of works areas, where possible.

#### **During Works**;

OOHW works will be staged as follows;

- Establish traffic control 7.30pm;
- Implement required road closure on Newcastle Road;
- Mobilise lighting towers;
- Complete activity;
  - Milling Shift 1
  - Concrete barrier removal Shift 2
  - Place Asphalt Shift 3
  - o Place Asphalt Shift 4
- Site clean-up and make work areas safe
- Remove traffic controls
- Re-open Newcastle Road closures.

Each activity (shift 1 -4) will be undertaken during OOHW period 1 (Evening) and OOHW period 2 (Night). The following standard mitigation measures will be implemented during this period;

#### Standard Mitigation Measures;

- Administrative controls, induction / toolbox consultation;
- Schedule noisier work to be carried out earlier in the period where feasible;
- All plant and equipment will be turned off when not in use;
- All plant and equipment will be serviced regularly and operated in accordance with the manufacture's specifications;
- Use of non-tonal reversing alarms (squawkers) are used instead of reversing beepers;
- · Radios used for communication to prevent the need for yelling;
- Provide supporting noise modelling to identify impacts to receivers and relevant mitigations in accordance to QA Specification G36;
- Designated vehicle parking away from sensitive receivers;
- Temporary lighting will be positioned and directed to minimize light spillage onto surrounding residential dwellings.

#### Additional Mitigation Measures;

**Refer Appendix 1** (Table 1) – for specific mitigation measures for individual receivers impacted by this OOHW activity. These mitigation measures will include;

#### Notification (N);

Advanced warning of works and potential disruptions will assist in reducing the impact on the community. The notification will consist of a letterbox drop (or equivalent) detailing work activities, time periods over which these will occur, impacts and mitigation measures. Notification occur by SMS if the OOHW works proceed.

#### Individual Briefings (IB);

Individual briefings will be used to inform stakeholders about the impacts of high noise activities and mitigation measures that will be implemented. Project representatives will visit identified stakeholders at least 48 hours ahead of potentially disturbing construction activities. Individual briefings provide affected stakeholders with personalised contact and tailored advice, with the opportunity to comment on the project. Where the resident cannot be met with individually then an alternative form of engagement should be used.

#### Verifications (V);

Noise and/or vibration levels are checked by taking site measurements. This will be in response to a complaint or to confirm a safe vibration working distance.

It should be noted that there may be personal circumstances among the sensitive receivers where the above approach to specific additional mitigation measures is not best suited. The Community Liaison Relations Manager has the authority to amend the above approach taking into account due consideration of the personal circumstances that may apply.

#### Duration Respite (DR);

Respite offers and respite periods 1 and 2 may be counterproductive in reducing the impact on the community for longer duration projects. In this instance and where it can be strongly justified it may be beneficial to increase the work duration, number of evenings of nights worked through Duration Respite so that the project can be completed more quickly.

The project team should engage with the community where noise levels are expected to exceed the NML to demonstrate support for Duration Respite (various types or lengths of respite offered).

#### F. Community consultation

Outline consultation undertaken for the proposed OOHW:

**Notification** - A notification regarding the planned OOHW was sent to residents on 13 August or 2 September, which provides the following information;

- A schedule of likely OOHW for a period of no less than three months in advance;
- Explanation of potential work, location and duration;
- Provision of proposed respite periods;
- · Discussing noise characteristics and likely noise and vibration levels;
- Discussing likely mitigation and management measures

An additional notification letter will be provided, at least five days prior to the commencement of the activity.

*Individual Briefings* - Given the current ongoing circumstances regarding Covid-19 and restrictions relating to social distancing, Daracon's Community Liaison Representative (CLR) has not conducted 'door knocking'. Individual briefings are currently being completed by phone.

Individual briefings conducted in relation to this OOHW application included the following discussion, to ensure affected residents understood what works were involved;

- Briefed regarding the nature of the works;
- What impacts they may expect, specifically the first night is expected to be more audible than subsequent works, as Milling operations occur;
- The schedule of works to be completed over four nights.
  - Night 1 to be the most audible.
  - Night 2 expected to be less audible, whilst barriers are removed.
  - Night 3 no works to be completed to provide respite to affected residents.
  - Night 4 & 5 expected to be audible as asphalt works are completed.
- · Expected timing of works;
- Residents were provided the opportunity to express any concerns in relation to the works.

There were no concerns raised by residents during this consultation process, all residents accepted the works need to be completed and were appreciative of the direct consultation. Generally, the feedback received during individual briefings was positive and a number of residents provided positive comments regarding the bridge installation, that being OOHW that occurred 10/102020.

Any resident that could not be contacted received a 'Request to contact' via letterbox drop, to facilitate future consultation regarding these works.

**Community Agreements** – The CLR has obtained agreement from the three residents predicted to receive noise impacts in excess of >25dBA above RBL, generated by this OOHW activity. One of the affected properties currently has no tenant residing in the property, however contact was made with the owner whom had no objections to the works.

Has respite periods for OOHW been identified with the affected community on a monthly basis and a three-month schedule of likely OOHW provided (refer CoA E29)?

Appropriate respite periods have been identified in consultation with potentially impacted residents on a monthly basis. Consultation has included:

- Provision of a three-month schedule of OOHW works (refer Appendix 2) which provides specific
  information regarding the proposed OOHW activities.
- A notification letter will be provided, at least five days prior to the commencement of works (refer –
   *Appendix 3 draft notification letter pending approval*).

Has the outcome of community consultation, the identified respite periods and scheduling of likely OOHW been provided to the ER, EPA and Planning Secretary?

The OOWH schedule is provided to the ER and Planning Secretary on a monthly basis. TfNSW also provides further detail on community consultation and respite to the ER and Planning Secretary through the OOHW application process when relevant to the OOHW, and when approval is sought. The EPA will be provided with relevant information through the six-monthly compliance reporting process by TfNSW.

#### G. Respite framework

Outline any previous respite within the last month and the status of community agreements (where relevant)?

#### Previous Respite;

OOHW undertaken during October will include;

- 1 night for bridge installation (completed 10/10/2020)
- 2 nights Bridge ancillary works (to be completed 26-27/10/2020)

Given the short duration of these activities, respite was not necessary to complete these works.

#### Current Respite Considerations:

The OOHW associated with this application is scheduled for four nights during November, therefore respite to impacted residents has been considered and will be provided by;

Duration Respite – respite periods 1 and 2 will be counterproductive in reducing the impact to the community for this activity and Daracon propose these works are completed as quickly as possible. The works will not be completed over consecutive nights, with no OOH works to be undertaken Wednesday 4 November, providing some respite to affected residents. The proposed works schedule applying 'duration respite' was discussed in detail during consultation (individual briefings) with affected receivers. No residents raised concerns regarding the proposed works duration.

Additionally, it is important that these works are completed as quickly as possible, as once the milling operation occurs a shallow excavation will be present on Newcastle Road, with only temporary traffic controls in place (i.e. concrete barriers will be removed). This excavation presents a safety risk to traffic and should be eliminated as soon as practicably possible.

Community Agreements – The CLR has obtained community agreements in relation to this OOHW activity for required residents, in addition to the 34 community agreements previously obtained in relation to OOHW.

Where residents have not been able to be contacted, the CLR has provided a 'Request to Contact' card, which provides the CLR's contact details to facilitate future consultation.

Have cumulative impacts from OOHW permitted by an EPL been considered during the development appropriate respite?

N/A

#### H. Details of non-residential receivers (if any) and corresponding NMLs

#### Comments:

The CLR has consulted Jesmond United Church on 3 September about upcoming OOHW. No issues were raised by the Church about the work. The church will be issued a notification letter prior to the commencement of works.

#### I. Are there any properties at risk of exceeding the screening criteria for cosmetic damage?

Plant required to undertake this OOHW activity will not encroach upon the minimum safe working distances, therefore there is no risk of exceeding the criteria for cosmetic damage. Impacts for this OOHW will be consistent with existing traffic impacts.

The vibration levels are considered to be insignificant and are not predicted to exceed the vibration criteria for 'Human Comfort' (BS528-2) or 'Structural Damage' (DIN 4150-3) of property.

I. Review/ Endorsements	S		
Contractor Community Liaison	Community notified		Date: 13/08/2020 or 02/09/2020
Representative	Additional consultation requirements:		
	The Community Liaison Representative (CLR) has distributed a notification to adresidents about the work and invite feedback. A notification will be distributed a way before the OOHW. The CLR will brief near neighbours about the work.		
	Have the works been reviewed and endorsed?		Yes / No-
	Name:	Signature:	Date:
	Louise Neville		19/10/2020
	Comments:		
Transport for NSW Environmental Manager (or delegate)	Agreed mitigation measures:		
	Have the works been reviewed and endorsed?		Yes / No
	Have the works been approved where neither k	ow or high risk?	<del>Yes</del> / No
	Name:	Signature:	Date:
	Andrew Grainger		27/10/2020
	Comments:		
Transport for NSW	Have the works been reviewed and endorsed?		Yes / No-
Project Manager	Have the works been approved where neither low or high risk?		<del>Yes</del> / No
	Name:	Signature:	Date:
	Michael Edwards	_	28/10/2020
	Comments:		
ER approval (low risk	Are the works approved?		Yes / No
activities)	Name:	Signature:	Date:
	Simon Williams	1	02/11/2020
	Comments:		
	Are the works approved?		Yes / No
	Name:	Signature:	Date:

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Planning Secretary approval (high risk activities)	Comments:		

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Figure 1: Work Location



**Figure 2: Notification Area** 



\*Attenuated noise modelling has been applied to provided attenuation from existing property / structures.

\* Noise Modelling - Assumes an average reduction of 7-10dB(A), from shielding of existing property

# Appendix 2 – OOHW Schedule



# Out of hours work for the shared path bridge at Jesmond between October and November 2020

The NSW Government is funding the construction of a shared path bridge over Newcastle Road as part of early work for the Newcastle Inner City Bypass between Rankin Park and Jesmond.

Transport for NSW and construction partner, Daracon Contractors, started construction in November 2019.

## What are we doing?

We will be carrying out essential night work on Newcastle Road and Coles Street which involves asphalting the road, placement and removal of safety barriers, and concreting for the bridge.

Work is required outside normal project hours for the safety of workers and road users, and to minimise traffic delays.

Below is a list of upcoming planned out of hours work activity between October and November 2020, weather permitting.

Month	Work activity	Equipment
October	Installation of bridge One night	Large crane, trucks, lighting towers and traffic control
	Bridge fit-out work Two nights	Elevated work platform, lighting towers and traffic control
	Asphalting Two nights	Asphalt paver, rollers, trucks, lighting towers and traffic control
	Barrier relocations One night	Excavator, mobile crane, trucks, lighting towers and traffic control
	Concrete pour next to Newcastle Road Two nights	Concrete trucks, lighting towers and traffic control
November	Asphalting Three nights	Asphalt paver, rollers, trucks, lighting towers and traffic control
	Barrier removal One night	Excavator, mobile crane, truck, lighting towers and traffic control

We are also planning to complete a number of large concrete pours between August and October which may extend up to 8pm due to concrete supply and production methods. This work is not expected to be noisy for nearby residents. We will continue to keep nearby residents informed as this work approaches.

## How will the work affect you?

The work will involve the use of machinery which generates some noise. We will make every effort to minimise noise where possible and turning off vehicles when not in use.

## Traffic changes

There will be some temporary traffic changes during the removal and installation of the safety barriers to ensure the work zone is safe. Partial lane closures and a reduced 40km/h speed limit will be place. Travel times may be affected by up to five minutes.

Please keep to speed limits and follow the direction of traffic controllers and signs. For the latest traffic updates, you can call 132 701, visit livetraffic.com or download the Live Traffic NSW App.

#### Contact

If you would like to provide feedback, or have any questions about this work, please contact our project team on 1800 818 433 (24 hours) or email jesmondbridge@daracon.com.au.

For more information about the Newcastle Inner City Bypass between Rankin Park and Jesmond, visit rms.nsw.gov.au/rp2j or email rp2j.community@aurecongroup.com.

Thank you for your patience during this important work.



If you need help understanding this information, please contact the Translating and Interpreting Service on 131 450 and ask them to call us on 1800 818 433.

# Appendix 3 – OOHW Notification Letter

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# Out of hours work for the shared path bridge at Jesmond in November 2020

The NSW Government is funding the construction of a shared path bridge over Newcastle Road as part of early work for the Newcastle Inner City Bypass between Rankin Park and Jesmond.

Transport for NSW and construction partner, Daracon Contractors, started construction in November 2019.

## What are we doing?

We will be carrying out essential night work on Newcastle Road which involves asphalting, relocating barriers and removal of pedestrian traffic signals.

Work is required outside normal project hours for the safety of workers and road users, and to minimise traffic delays.

We will be working on the following nights between **7pm and 6am** on Newcastle Road. If wet weather prevents the work occurring as planned it will be rescheduled and local residents will be notified.

Date	Work activity	Equipment
Monday 2 November	Removal of road surface (milling)  One night	Milling machine, trucks, lighting towers and traffic control
Tuesday 3 November	Barrier removal One night	Excavator, mobile crane, truck, lighting towers and traffic control
Thursday 5 and Friday 6 November	Asphalting Two nights	Asphalt pavers, rollers, trucks, lighting towers and traffic control
Tuesday10 and Wednesday 11 November	Decommissioning of traffic signals  Two nights	Excavator, elevated work platform, trucks, lighting towers and traffic control

# How will the work affect you?

The work will involve the use of machinery which generates some noise. We will make every effort to minimise noise where possible and turning off vehicles when not in use.

# Traffic changes

There will be some temporary traffic changes to ensure the work zone is safe. Partial lane closures and a reduced 40km/h speed limit will be place. Travel times may be affected by up to five minutes.

Please keep to speed limits and follow the direction of traffic controllers and signs. For the latest traffic updates, you can call 132 701, visit livetraffic.com or download the Live Traffic NSW App.

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