

Memo

Title	Application for Minor Ancillary Facility – Cope Street Waterloo
Date	07 September 2021
Doc Number	SMCSWSWL-JHG-SWL-EM-MEM-000001
To	George Kollias (Environmental Representative), Larry Clark (Acoustic Advisor)
From	Julian Paul (JH Environment & Sustainability Advisor)

1.1. Introduction

This application relates to the minor ancillary facility associated with Waterloo ISD proposed on Cope Street, adjacent to the Waterloo ISD Construction Site. The minor ancillary facility is required to provide necessary lunch shed, office and first aid facilities for utilities subcontractors to adhere to the COVID-19 workplace restrictions (e.g. 1 person per 4m²) and separate work crews on the Waterloo ISD.

This minor ancillary facility will comprise of two caravan trailer lunch sheds, one storage container for office use & one storage container for first aid use, parked tandem along Cope Street. The proposed minor ancillary facility is in addition to those approved under the EIS. A minor ancillary facility application form is located in Annexure A, in accordance with Condition of Approval (CoA) A18.

1.2. Compliance with CoA A18

One approval pathway for minor ancillary facilities is identified in the Planning Approval:

- Minor ancillary facilities not identified in the EIS. Minor ancillary facilities would be of minimal environmental impact and may be approved by the Environmental Representative (ER) in accordance with CoA A18.

This minor ancillary facility adjacent to the Waterloo ISD Construction Site is not identified as an ancillary facility in the EIS. The minor ancillary facility is located within the revised Waterloo Station Construction site included in the Sydney Metro Chatswood to Sydenham Submissions and Preferred Infrastructure Report (SPIR). Therefore, if approved by the ER, the Cope Street minor ancillary facility can be established where it satisfies the criteria of CoA A18.

Table 1 Compliance requirements of CoA A18

CoA	Requirement	Compliance
A18	Minor ancillary facilities comprising lunch sheds, office sheds, and portable toilet facilities, or the like , that are not identified in the EIS as amended by the documents listed in A1 and which do not satisfy the criteria set out in Condition A16 of this approval must satisfy the following criteria:	This memo and an Application for Minor Ancillary Facility (Annexure A) has been prepared and provided to the ER to allow the assessment of the impacts of the proposed minor ancillary facility comprised of two caravan trailer lunch sheds, one site office & one first aid shed.
A18 a)	(a) have no greater environmental and amenity impacts than those that can be managed through the implementation of environmental measures detailed in the CEMP required under Condition C1 of this approval; and	This memo and an Application for Minor Ancillary Facility (Annexure A) has been prepared and provided to the AA and ER to review the noise impacts of the proposed minor construction ancillary facility.

A18 b)	(b) have been assessed by the ER to have: i. minimal amenity impacts to surrounding residences and businesses, after consideration of matters such as compliance with the Interim Construction Noise Guideline (DECC 2009), traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts;	There will be minimal environmental impact with respect to surrounding residences and businesses, in relation to noise, traffic and access impacts, dust and odour and visual impacts as described in Annexure A.
	(b) have been assessed by the ER to have: ii. minimal environmental impact with respect to waste management and flooding; and	There will be minimal environmental impact with respect to waste management and flooding as described in Annexure A.
	(b) have been assessed by the ER to have: iii. no impacts on biodiversity, soil and water, and heritage items beyond those already approved under other terms of this approval.	There will be no environmental impact with respect to biodiversity, soil and water, and heritage as described in Annexure A.

Annexure A Application for Minor Construction Ancillary Facility

Step 1 – Ancillary facilities information	
Site location (attach map for reference):	Cope Street, Waterloo, NSW, 2017 Refer to site location plan on page 7.
Date works to commence: 31st August 2021	Date works to finish: May 2022
Minor Construction Ancillary Facilities in accordance with A18 (select all that apply):	
Lunch sheds	X
Office sheds	X
Portable toilet facilities	X

Step 2 – Environment and Sustainability Manager (or delegate) review	
Can the environmental and amenity impacts associated with the proposed minor ancillary facility be managed through the implementation of environmental measures detailed in the CEMP?	<p>The minor ancillary facility will be located on Cope Street, adjacent to the Waterloo ISD construction site. Mitigation and management measures to be implemented for these works have been identified in the sub-plans and procedures in the CEMP (see Section 6.1), approved by the Secretary on 31/07/2020. These mitigation measures will also be incorporated into an ECM for the ancillary facility.</p> <p>There are no other additional environmental and amenity impacts than those that can be managed through the implementation of environmental measures detailed in the CEMP, approved by the Secretary on 31/07/2020.</p>
Is the proposed minor ancillary facility within the Project boundary?	The minor ancillary facility is located within the revised Waterloo Station Construction site included in the Sydney Metro Chatswood to Sydenham Submissions and Preferred Infrastructure Report (SPIR).
Is the ancillary facility included in the EIS?	No. The minor ancillary facility was not assessed as part of the EIS.
Provide a brief discussion regarding the following environmental issues associated with the proposed minor ancillary facility:	
<ul style="list-style-type: none"> compliance with the Interim Construction Noise Guidelines (DECC, 2009) 	<p>The new ancillary facility will be in compliance with this guideline. The proposed facilities are located approximately 20 metres away from residential receivers along Cope Street. The two caravans and site office will be powered by 5 kVa diesel generators, which will have a minimal impact upon the residential receivers. The generator will be required to be on 24/7 to power the refrigerators. The site office generator will only be used during the day period until the sound power level can be confirmed.</p> <p>The noise impact from the new amenity facilities have been assessed through the Sydney Metro Out of Hours Work Application Form model, refer to Table 2 and Table 3. The caravan contains an enclosure for the diesel generator at the rear of the facility, which is predicted to achieve a 25 dB noise reduction, according to the Sydney Metro Out of Hours Work Application Form model.</p> <p>Based on these results it is expected that the noise impact will be below NML during the standard & evening period with a 1 dB exceedance during the night period. These impacts will be verified by attended noise monitoring for compliance with the predicted noise level.</p> <p>It is noted the first aid shed will not require power and hence will not cause any additional impacts to the receivers identified above.</p>

Step 2 – Environment and Sustainability Manager (or delegate) review

<ul style="list-style-type: none"> ▪ traffic and access impacts (in accordance with CoA E57) 	<p>Traffic on Cope Street will not be affected by the minor ancillary facility as it will be parked in allocated car spaces, leased from Council through a stand plant permit (or the like). The components that form the minor ancillary facility will follow road rules and adhere to the Construction Traffic Management Plan.</p> <p>As assessed in the SPIR, the impact as a result of a loss of on-street parking is expected to have a minimal impact as there is alternative long term residential on-street parking on adjacent streets. The community consultation team will notify the residents on Cope Street of the change to parking.</p>
<ul style="list-style-type: none"> ▪ dust and odour impacts 	<p>The facility is to be established on road pavement (hardstand). Dust is not expected to present an issue. Odour will be managed through regular waste management of the facility.</p>
<ul style="list-style-type: none"> ▪ visual (including light spill) impacts 	<p>The single stack caravan sheds and storage containers will be situated on top of hardstand in leased car spaces to minimise the visual impact to the surrounding vicinity. Additionally, the facilities will not directly overlook adjoining private open spaces of residential properties.</p> <p>Lighting will be orientated away from residential receivers where possible. No overshadowing on residential receivers would occur due to the distance between the facilities and nearest residential receivers (located on Cope Street).</p> <p>Lighting will be adjusted to minimise any potential impact and installed consistent with the mitigations in the Visual Amenity Management Sub-plan (See Section 7.2).</p>
<ul style="list-style-type: none"> ▪ waste management 	<p>All general waste such as office waste will be removed via a licenced contractor overseen by JH and will be managed in accordance with the Waterloo ISD Waste & Recycling Procedure.</p>
<ul style="list-style-type: none"> ▪ flooding 	<p>Flooding impacts will be unchanged the same due to the caravans being elevated on hardstand and the office and first aid container taking up a small footprint. Stormwater drains will remain unobstructed by the facilities.</p>
<ul style="list-style-type: none"> ▪ biodiversity 	<p>The facility is to be installed on established land. There will be no vegetation clearing/impacts to biodiversity as a result of the additional ancillary facility. No additional assessment will be required.</p>
<ul style="list-style-type: none"> ▪ soil and water 	<p>The facility is to be installed on established land and the waste water will be captured in a septic tank and disposed of by a licenced contractor overseen by JH. There will be no impacts to soil or water systems as a result of the additional ancillary facility. No additional assessment will be required.</p>
<ul style="list-style-type: none"> ▪ heritage items 	<p>There will be no impacts to heritage items as a result of the additional ancillary facility. No additional assessment will be required.</p>

Sydney Metro Out of Hours Work Application Form Extract

Table 1: Predicted Noise Level Aspects

Skip this section if predicted noise levels have already been established in other documentation.		
Noise Aspect	Select the most applicable value for each noise aspect below and enter into Table 2.	dBA
1. Plant / Equipment Noise Level at 10m Including non-continuous use reduction (-5dBA) and annoying activity penalty (+5dBA) for as per ICNG (refer to ICNG Appendix B for predicted noise level data) <u>Underline indicates vibratory generating plant / equipment</u>	<u>Impact sheet piling rig</u>	100
	Hand-held tamper, excavator with hammer, rock-breaker, driven / vibratory piling, concrete saw, diamond saw, air track drill, large dozer, hand-held rail grinder	95
	<u>Jackhammer</u> , rock crusher, angle grinder, pneumatic hammer, medium dozer, tracked loader, impact wrench	90
	Mainline tamper, ballast regulator, dynamic track stabiliser, vibratory roller, mainline rail grinder, ballast train (pour / fill ballast), chainsaw, tub grinder / large mulcher, scraper, grader, super-sucker / vacuum truck, large backhoe / wheeled front-end loader, bored piling, pavement profiler, fixed crane, tracked excavator	85
	Small bulldozer, small excavator, tower crane, truck-mounted crane, forklift, bobcat, skid-steer front-end loader, road truck / truck and dog, dump truck, concrete truck / pump / mixer, compressor, non-vibratory / large pad foot roller, whacker packer / compactor, water cart, pavement laying machine, asphalt truck and sprayer, line marking truck, standard penetration testing, welder, pin puller	80
	Concrete vibrator, cherry-picker scissor lift / elevated work platform / Franna crane, small backhoe, front end loader, fence post driver, electric drill rig, hand held rattle gun, generator (diesel / petrol), spreader	75
	Lighting tower, medium-rigid truck / semi-trailer, welding equipment, tracked excavator, small front end loader	70
	Light vehicle, hand-tools (no impact), small cement mixer, attenuated generator (inside housing), tracked excavator	65
2. Multiple Plant	More than one of the noisiest plant being used simultaneously at roughly the same location	+5
3. Local Screening	Existing screening between site and receiver (buildings, cuttings, canopies, etc.)	- 5
	Temporary screening to be implemented near work site	- 10
	Acoustic shed or enclosure	- 25
4. Distance Attenuation	< 10 metres	0
	10 to 20 metres	- 5
	20 to 35 metres	- 10
	35 to 60 metres	- 15
	60 to 100 metres	- 20
	100 to 180 metres	- 25
	180 to 350 metres	- 30
	350 to 1,000 metres	- 40

Table 2: Predicted Noise Levels and Exceedances of RBLs and/or NMLs (dBA)

Skip this section if Section 3 has been completed in full.										
Period (only complete as applicable for each period)	Noisiest Plant / Equipment (state the noisiest plant / equipment to be used during each applicable OOH period)	Receiver Type (state 'Res' or 'Non-Res' as applicable for closest receiver to noisiest plant / equipment)	Enter the most applicable values from Sydney Metro Out of Hours Work Application Form Extract Table 1, then add to determine the Predicted Noise Level				Predicted Noise Level (1 + 2 + 3 + 4)	RBL (for Res)	NML (for Non-Res)	Exceedance (Predicted Noise Level minus RBL for Res or NML for Non-Res)
			1. Plant / Equipment Noise Level	2. Multiple Plant / Equipment	3. Local Screening	4. Distance Attenuation				
Daytime OOH *	attenuated generator (inside housing)	Res	75	5	-10	-10	60	54	64	Below NML
Evening OOH *	attenuated generator (inside housing)	Res	75	5	-25	-10	45	47	52	Below NML
Night Time OOH *	attenuated generator (inside housing)	Res	75	5	-25	-10	45	39	44	+1 dB

* Refer to OOH period timings under Section 2 of the Sydney Metro OOHW Permit Form.

Location Map



Minor Ancillary Facility Location



Step 3 – Internal sign off**Project Director****Name:**

Andrew Knispel

Signature:**Date:**

07/09/2021

Environment and Sustainability Manager**Name:**

Sally Reynolds

Signature:**Date:**

07/09/2021

Step 4 – Environmental Representative sign off

In conjunction with the AA, have you considered the noise impacts of the minor construction ancillary facility?

Y

Does the proposed minor ancillary facility meet the requirements of Condition of Approval A18?

Y

Name:

George Kollias

Signature:



Date:

08/09/21

Additional comments / notes:

Condition 1:

Generators in-built to caravans may be used during OOH periods as per the included noise assessment.

The Contractor is to provide details on the verified noise levels and noise assessment for the 5kVa generator proposed for the site sheds, before use during any OOH period (excluding for a trial if this can only be done during an OOH period). The noise assessment must consider the inclusion of appropriate barrier reduction where the generator is not within an enclosure, and cumulative noise with generator assessed for the caravans. These conditions must be fulfilled to the satisfaction of Sydney Metro, Acoustics Advisor and the Environmental Representative.