



Environmental Permit No. EP-457/2013/C

Central Kowloon Route

Independent Environmental Checker Verification

Works Contract:	Yau Ma Tei East (HY/2014/08)	
Reference Document/Plan		
Document/Plan to be Certified/ Verified:	Construction Noise Mitigation Measure Plan	
Date of Report:	- (Rev. 17.1)	
Date received by IEC:	6 February 2023	

Reference EP Condition

Environmental Permit Condition: 2.9

To further reduce the air-borne construction noise impacts on Yau Ma Tei Catholic Primary School (Hoi Wang Road), Tak Cheong Building, Prosperous Garden Block 1, The Coronation Tower 1, Ko Fai House of Kwun Fat Court, Grand Waterfront Tower 3 and Hang Chien Court Block J, the Permit Holder shall, no later than one month before the commencement of construction of the corresponding component(s) of the Project, submit to the Director for approval four hard copies and one electronic copy of an updated Construction Noise Mitigation Measure Plan (CNMMP). The plan shall include:-

- (a) a schedule of construction works to be carried out at the works areas of the Project within 300m from the NSRs;
- (b) an updated construction methodology of the construction works;
- (c) an updated powered mechanical equipment (PME) list for the construction works;
- (d) an updated proposal of air-borne construction noise mitigation measures for the Noise Sensitive Receivers as mentioned above, including the provision of noise barriers, enclosures;
- (e) other initiatives proposed by the Permit Holder; and
- (f) an updated prediction of noise levels in accordance with the above updated information and mitigation proposals in place.

Before submission to the Director, the CNMMP shall be certified by the ET and verified by the IEC as conforming to the relevant information and recommendations contained in the EIA Report. The approved CNMMP shall be fully and properly implemented.

IEC Verification

I hereby verify that the above referenced document/plan complies with the above referenced condition of EP-457/2013/D.

Ms Mandy To

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Date: 13 February 2023

Independent Environmental Checker

Build King – SK ecoplant Joint Venture

Central Kowloon Route Contract HY/2014/08 Yau Ma Tei East Section

Construction Noise Mitigation Measures Plan

Rev.17.1

Certified by:

Position: Environmental Team Leader

Date: 6/2/2023

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PART A GENERAL

1.0 Background

1.1 Project Description

Central Kowloon Route (CKR) was proposed in the West Kowloon Reclamation Transport Study that a route in tunnel should be developed to link the West Kowloon Highway since 1990.

Highways Department (HyD) commissioned the Design and Construction Assignment for the Central Kowloon Route in June 1998. CKR is a dual 3-lane trunk road across central Kowloon linking the West Kowloon in the west and the proposed Kai Tak Development (KTD) in the east. The CKR will be about 4.7km long with an underground tunnel section of about 3.9km long, in particular, there will be an underwater tunnel of about 370m long in Kowloon Bay to the north of the To Kwa Wan Typhoon Shelter. It will connect the West Kowloon Highway at Yau Ma Tei Interchange with the road network at Kowloon Bay and the future Trunk Road T2 at KTD which will connect to the future Tseung Kwan O – Lam Tin Tunnel (TKO-LTT) and Cross Bay Link (CBL). CKR, Trunk Road T2 and TKO-LTT will form a strategic highway link, namely Route 6, connecting West Kowloon and Tseung Kwan O. Consultancy studies for Trunk Road T2, TKO-LTT and CBL have been commissioned by CEDD. In addition, 3 ventilation buildings, which will be located in Yau Ma Tei, Ho Man Tin and ex-Kai Tak airport area, are proposed to ensure acceptable air quality within the tunnel.

The Central Kowloon Route – Design and Construction Environmental Impact Assessment Report (Register No.: AEIAR-171/2013) was approved with conditions by the Environmental Protection Department (EPD) on 11 July 2013. An Environmental Permit (EP-457/2013) was issued on 9 August 2013. Variations of EP (VEP) was subsequently applied for and the latest EP (EP-457/2013/D) was issued by EPD on 15 June 2021.

Build King - SK ecoplant Joint Venture (BKSKJV) (former name as Build King – SKEC Joint Venture) was commissioned by Highways Department as the appointed main contractor for Contract No. HY/2014/08: Central Kowloon Route – Yau Ma Tei East (YMTE).

The Works to be executed under this Contract included, but not exclusively, the following items:

- Construction of approximately 390m long cut-and-cover tunnel between Yau Cheung Road and Shanghai Street;
- Construction and subsequent handover of Yau Ma Tei Access Shaft for facilitating the access and using by the contractor of CKR Central Tunnel contract for the construction of tunnelling works of CKR;
- Construction and maintenance of a composite building for the temporary Public Library cum Jade Hawker
 Bazaar and a building for the temporary Maternal and Child Health Centre;
- Re-provisioning of a Methadone Clinic in the Yau Ma Tei Jockey Club Polyclinic Building;
- Demolition of the existing Yau Ma Tei Multi-storey Carpark Building, the existing Yau Ma Tei Specialist
 Clinic Extension Building and the existing Yau Ma Tei Jade Hawker Bazaars;
- Demolition of existing Subway No. KS55 and ancillary buildings of existing Yau Ma Tei Police Station;
- Design and construction of the Noise Barrier Works
- Demolition and re-provisioning of a section of Gascoigne Road Flyover (GRF) between Nathan Road and Ferry Street. Implementation of temporary measures for maintaining the normal operation of the GRF during the contract period;
- Other civil works

A Site Layout showing the site boundary is shown in **Appendix A**.

1.2 Requirements for Construction Noise Mitigation Measure Plan (CNMMP)

According to the condition 2.9 of the EP-457/2013/D, the Permit Holder shall, no later than one month before the commencement of construction of the Project, submit to the Director of Environmental Protection (DEP) for approval four hard copies and one electronic copies of an update Construction Noise Mitigation Measure Plan (CNMMP) to further reduce the air-borne construction noise impacts on Yau Ma Tei Catholic Primary School (Hoi Wang Road), Tak Cheong Building, Prosperous Garden Block 1, The Coronation Tower 1, Ko Fai House of Kwun Fat Court, Grand Waterfront Tower 3 and Hang Chien Court Block J. In view of the worksites location under this contract and their respective distance to the above NSRs (300 meters study area according to the EIA methodology), predicted noise impact on Yau Ma Tei Catholic Primary School (Hoi Wang Road), Tak Cheong Building, Prosperous Garden Block 1, The Coronation Tower 1 are studied in this CNMMP, while that of Ko Fai House of Kwun Fat Court, Grand Waterfront Tower 3 and Hang Chien Court Block J would be assessed in other Sections of the Central Kowloon Route according to their worksite location.

The CNMMP shall include:

- A schedule of construction works to be carried out at the works areas of the Project within 300m from the Noise Sensitive Receivers (NSRs);
- An updated construction methodology of the construction works;
- An updated powered mechanical equipment (PME) list for the proposed construction works;
- An updated proposal of air-borne construction noise mitigation measures for the Noise Sensitive Receivers as mentioned above, including the provision of noise barriers, enclosures;
- Other initiatives proposed by the Permit Holder; and
- An updated prediction of noise levels in accordance with the above updated information and mitigation proposals in place.

Before submission to the Director, the CNMMP shall be certified by the ET and verified by the IEC as conforming to the relevant information and recommendations contained in the EIA Report (Register No. AEIAR-171/2013).

2.0 Description of Construction Works in the Study Area

2.1 Noise Sensitive Receivers

According to Further Environmental Permit No. FEP-02/457/2013/D for CKR-YMTE, 4 Noise Sensitive Receivers (NSRs) would be addressed in this CNMMP. The 4 NSRs are Yau Ma Tei Catholic Primary School (Hoi Wang Road) (W-N1A), Tak Cheong Building (W-N8A), Prosperous Garden Block 1 (W-N25A) and The Coronation Tower 1 (W-P11).

The list of NSRs are shown in **Table 2.1**. The Layout plans of the works area showing the NSRs and their distance to the works area are provided in **Appendix A and Appendix D**.

Table 2.1 List of Noise Sensitive Receivers (NSRs)

NSRID	NSR Description	Use ^[1]	Criterion,	Maximum Con	struction Noise	Noise
			$dB(A)^{[2]}$	Levels,	$\mathbf{dB}(\mathbf{A})^{[3]}$	exceedance,
				Unmitigated	Mitigated	dB(A) [3]
W-N1A	Yau Ma Tei Catholic	Е	70(65)	82	70 (69)	-(4)
	Primary School (Hoi					
	Wang Road)					
W-N8A	Tak Cheong Building	R	75	95	82	7
W-N25A	Prosperous Garden	R	75	93	81	6
	Block 1					
W-P11	The Coronation (West	R	75	88	77	2
	Façade)					

Notes:

- [1] R- Residential; E- Educational Institution; GIC- Government, institution and community
- [2] Values in parentheses indicate the noise criterion during examination period of educational institution
- [3] Data are extracted from Tables 5.13 and 5.16 of approved EIA Report"

2.2 Construction Methodology

The proposed construction methodology is generally following that presented in Section 3.5 of the approved CKREIA Report (Register No. AEIAR-171/2013). The tunnel section of Yau Ma Tei (from Hoi Wang Road to Shanghai Street) will be constructed by 'top-down' cut-and-cover method to reduce impact upon the surrounding area, pedestrians and road traffic.

A breakdown of the major construction activities in sequence to be carried out within the contract are provided in **Appendix B**.

2.3 Updated Preliminary Construction Programme

The updated preliminary construction programme prepared by BKSKJV has been used in this CNMMP and has been presented on a monthly basis for the duration of the construction works in corresponding worksites.

Since the commencement of the project has been delayed for 3 years., the potential concurrent projects have been reviewed. Upon reviewing the concurrent projects close to YMTE, other than YMTW section under CKR itself, there is no additional potential concurrent projects which would have cumulative construction noise impacts on the NSRs during the construction phase. The concurrent effect on noise impact contributed by YMTW section is also considered.

The construction schedule has been adjusted such that to minimize concurrent construction works to be carried out in the vicinity as far as practicable. The updated preliminary construction programme is provided in **Appendix B**.

2.4 Updated Powered Mechanical Equipment List

Table 2.2. The Sound Power Levels (SWL) for the PMEs have been adopted from EPD's Technical Memorandum on Noise from Construction Work Other than Percussive Piling (GW-TM), list of SWLs of other commonly used PME or British Standard 5228 - Part 1:2009 Code of Practice for Noise and Vibration Control on Construction and Open Sites. It should be noted that the PMEs proposed are

commonly available in Hong Kong market. The PMEs to be adopted for individual construction activities for this contract are provided in **Appendix C**.

Taking into account the latest construction programme and PME inventory, extra quiet PME for dump truck, roller and vibratory are proposed in addition to the quiet PME proposed in the Approved CKR EIA Report. The quiet PME as listed in Table 2.2 could be found in Hong Kong. However, if the exact model specified in the references of the listed quiet PME are not available during the construction period, the model with SWL not higher than the listed SWL shall be adopted. BKSKJV has also confirmed that the programme and plant inventory are reasonable and practicable for completing the works of CKR-YMTE within the scheduled timeframe.

Table 2.2: List of Updated Powered Mechanical Equipment (PME)

PME Description	TM Ref./ Other Ref. (a)/	Unit Sound Power
	BS 5228 Ref. (b)/ QPME	Level, SWL dB(A)
	ID Code (c)	
Air Compressor	CNP003	104
Asphalt Paver	EPD-01226	104
Bar Bender and Cutter	CNP021	90
Bored Piling Crane mounted auger	BS D4-37	111
Breaker, Excavator Mounted	BS D8-13	110
(Hydraulic)		
Bulldozer	CNP030	115
Compactor, vibratory	CNP050	105
Concrete Core	CNP042	117
Concrete Lorry Mixer	CNP044	109
Concrete pump	CNP047	109
Concrete crusher, excavator mounted	CNP055	103
Crane Mobile	BS D7-114	101
Dump Truck with Grab	CNP069	105
Excavator/Loader, Wheeled/Tracked	EPD-09560	99
Forklift	XRL - HK Section EIA	104
Generator	CNP103	95
Grout mixer	CNP105	90
Grout pump	CNP106	105

PME Description	TM Ref./ Other Ref. (a)/	Unit Sound Power
	BS 5228 Ref. (b)/ QPME	Level, SWL dB(A)
	ID Code (c)	
Lorry	CNP142	105
Piling, Diaphragm Wall, Bentonite	CNP162	105
Filtering Plant		
Piling, large dia bored, oscillator	CNP165	115
Poker, Vibratory, Hand Held	CNP173	102
	Reference to approved	118
Rock Crusher	West Island Line EIA	
	report	
Rock drill, crawler mounted	SIL EIA	108
(pneumatic)		
Rock Drill	SIL EIA	108
Road Roller	EPD-01183	97
Saw, Circular Wood	BS D7-79	103
Saw, Concrete	CNP203	115
Saw, Wire	CNP205	101
Tracked crane	BS D7-114	101
Ventilation Fan	CNP241	108
Water Pump, Submersible (Electric)	CNP283	85

Note:

- (a) Other references refer to the approved West Island Line EIA Report/South Island Line (East)
 EIA Report/Hong Kong Section of Guangzhou Shenzhen Hong Kong Express Rail
 Link/SWLs of other commonly used PME provided in the document prepared by the Noise
 Control Authority
 - (https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)
- (b) BS 5228 Ref. refers to British Standard 5228 Part 1:2009 Code of Practice for Noise and Vibration Control on Construction and Open Sites
- (c) QPME ID Code refer to Quiet Powered Mechanical Equipment from EPD's website http://www.epd.gov.hk/cgi-bin/npg/qpme/search_gen.pl?lang=eng

3.0 Noise Assessment and Proposed Mitigation Measures

3.1 Assessment Methodology and Assumptions

The scope of this plan does not cover all the construction works of West Portion of CKR Project. This Plan only includes the noise assessment for CKR-YMTE's works area and the remaining works areas shall be addressed by another CKR contract namely CKR-YMTW. However, the cumulative effect from YMTW will be considered in the noise assessment of this Plan. Worksite S13 is located within the site boundary of both YMTE and YMTW. However, the construction of landscape deck at worksite S13 will be carried out by YMTW only and thus the noise assessment is not included in this plan, but the noise assessment is included in the cumulative effect of this plan. Besides, according to the contract information provided by HyD, some construction activities at worksites are different from those mentioned in EIA report or not included in the scope of works of YMTE contract. Worksite S9 is construction of Community Liaison Centre for CKR project and worksite S7 is the construction of Temporary Library & Temporary Jade Market. Activities in worksites S48 is the construction of Ferry Street Subway, which is not the scope of works under YMTE contract as per the contract information.

The construction noise assessment has been carried out in accordance with the methodology used in the approved CKR EIA Report (Register No. AEIAR-171/2013). Notional source distances adopted in the calculation has made reference to those used in the CKR EIA Report (Register No. AEIAR-171/2013) except worksite S3, S4, S5 and S13 according to the updated construction layout as provided in **Appendix A**. The updated distance between NSRs and worksite are tabled in **Appendix D**.

The percentage on-time for each PME has been estimated individually for each construction activity to ensure practicality and is consistent with assumptions made in CKR EIA Report (Register No. AEIAR-171/2013).

The BKSKJV has confirmed that the programme and plant inventory are reasonable and practicable for completing the Works Contract within the scheduled timeframe.

All mitigation measures and their effectiveness proposed in the CKR EIA Report (Register No. AEIAR-171/2013) including the use of temporary movable noise barrier and enclosure (with sufficient ventilation) for relatively static plant, acoustic mat and quiet plant have been considered in this CNMMP. The use of quiet plant associated with construction work is prescribed in British Standard

"Code of practice for noise and vibration control on construction and open sites, BS5228" which contains the SWLs for specific quiet PME.

Central Kowloon Route – Yau Ma Tei West (CKR-YMTW) is identified to be concurrent projects of the works at CKR-YMTE. CKR-YMTW commenced in November 2018 and is estimated to complete in October 2024. Cumulative construction noise impact from construction activities of CKR-YMTW is addressed in this CNMMP and detail assessment is shown in Appendix C. For the construction works for two noise enclosures at Gascoigne Road Flyover, they will be carried out under our contract.

3.2 Proposed Mitigation Strategy and Noise Assessment Results

The mitigation measures proposed in the approved CKR EIA report (Register No. AEIAR-171/2013) have been adopted.

Movable temporary noise barriers that can be located close to noisy plant and be moved concurrently with the plant along a worksite can be very effective for screening noise from NSRs. A typical design which has been used locally is a wooden framed barrier with a small-cantilevered on a skid footing with 25mm thick internal sound absorptive lining. This measure is particularly effective for low level zone of NSRs. A cantilevered top cover would be required to achieve screening benefits at upper floors of NSRs. Movable barriers will be used for some PME (e.g. asphalt paver, excavator etc). It is anticipated that suitably designed barriers could achieve at least 5 - 10dB(A) reduction. For a conservative assessment, only a reduction of 5dB(A) is assumed. The use of enclosure (with sufficient ventilation and surface mass at least 10 kg/m2) has been considered in this assessment to shelter relatively static plant including air compressor, generator. The enclosures barriers can provide about 10dB(A) noise reduction. For ventilation fan, enclosure namely SilentCUBE would be used as noise mitigation and -15 dB(A) would be applied in the assessment for conservatism. The details of the noise enclosure are showed in **Appendix F**. BKSKJV shall ensure the practicability to block the line-of-sight for nearby NSRs during the usage of noise barriers.

The construction activities to be carried out under traffic deck or underground, will adopt -20dB(A) screening effect has PMEs, except ventilation fan will be located at grade.

For one of the mucking out points in CKR project, the temporary full noise enclosure will be constructed after the access shaft completion to screen off the future construction activities for tunnelling works with the noise reduction of -15dB(A).

For the demolition works of the Yau Ma Tei Mulit-storey Carpark Building, temporary noise barrier will be erected at the floor to be demolished surrounding the 4 sides of the building. The temporary noise barriers can provide about 10dB(A) noise reduction. Details of the acoustic noise barriers are shown in **Appendix E**.

The predicted noise levels at identified NSRs after implementation of mitigation measures, including quiet plants, noise enclosure/shed, movable barriers and acoustic fabric are shown in **Appendix C** and summarised in Table 3.1. The mitigation measures and noise control design will be implemented by the frontline staff of the contractor, supervised by the Environmental Officer/ Site Engineer and checked by the ET, IEC and RE during routine site inspection under the EM&A programme. Some of the construction activities will not involve PME and thus are not shown in noise assessment such as worksites S17 and S31 which are decanting of Library and Government Offices in MSCB and YMT Police Station respectively.

Site records, including photos and measurement reports, for substantiating proper implementation of the Plan shall be well kept by the Contractor on site for review/checking by ET/IEC/EPD at any time.

The implementation schedule of proposed mitigation measures is showed in Appendix G.

Table 3.1 Summary of Noise Assessment Result

NSR ID	NSR Description	Predicted Max.	Noise	Exceedance,	Duration
		Noise Level ^(a) ,	Criteria(b),	dB(A))	(month) of
		dB(A)	dB(A)		Exceedance(c)
W-N1A	Yau Ma Tei Catholic	67(67)	70(65)	-(2)	-(2)
	Primary School (Hoi				
	Wang Road)				
W-N8A	Tak Cheong Building	81	75	6	31
W-	Prosperous Garden	80	75	5	3
N25A	Block 1				
W-P11	The Coronation	75	75	-	-

Note:

- (a) Bolded values mean exceedance of the relevant noise criteria.
- (b) Values in parentheses indicate the noise criterion during examination period of educational institution.
- (c) Typical examination period is in May, June, November and December. The exceedance duration is subject to the examination schedule when available.

With the implementation of the above-mentioned mitigation measures, residual impacts exceeding the construction noise criterion are still expected. The comparison of residual impacts between CKR EIA Report and this CNMMP is shown in Table 3.2.

Table 3.2 Comparison of Residual Impacts between CKR EIA Report and this CNMMP (Residential Premises)

		E	IA Predictio	on			CNN	AMP Predi	ction		
NSR	Max. Noise Level,	Dura	tion (montl	n) of Exceed	lance	Max. Noise Level,	Dura	tion (montl	h) of Exceed	lance	
	dB(A)	1-4 dB(A)	5 dB(A)	6 dB(A)	7 dB(A)	dB(A)	1-4 dB(A)	5 dB(A)	6 dB(A)	7 dB(A)	
W-N8A	82	26	5	4	2	81	27	2	2	-	
W-N25A	81	6	-	3	-	80	-				
W-P11	77	4	-	-	-	75	-	-	-	-	

Note: Duration (month) of exceedance of this CNMMP has been amended due to the update of works program

Table 3.3 Comparison of Residual Impacts between CKR EIA Report and this CNMMP (Educational Institution During Examination Period)

		EIA l	Predict	ion (du	ring ex	kam pe	riod)		(CNMM	P Pred	iction	(during	g exam	period)
		Du	ration	(montl	ı) of Ex	kceedai	ıce			Du	ration	(montl	n) of Ex	ceedaı	ıce	
NSR	1	2 dB(A)	3 dB(A)	4 dB(A)	5 dB(A)	6 dB(A)	7 dB(A)	≥8 dB(A)	1 dB(A)	2 dB(A)	3 dB(A)	4 dB(A)	5 dB(A)	6 dB(A)	7 dB(A)	≥8 dB(A)
W- N1A	2	3	-	1	ı	ı	1	-	-	2	ı	ı	-	ı	-	-

Table 3.4 Comparison of Residual Impacts between CKR EIA Report and this CNMMP (Educational Institution During Normal Period)

		EIA P	redictio	on (dur	ing no	rmal po	eriod)		C	NMM	P Predi	ction (during	norma	l period	i)					
NSR		Du	ration	(month	ı) of Ex	ceedar	ıce		Duration (month) of Exceedance												
TOK	1	2	3	4	5	6	7	≥8	1	2	3	4	5	6	7	8					
	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)					
W-		_		1	_		_	_	_	_					_						
N1A	_	_	_	_	_	_	_	_	_	_	_	-	_	_	-	_					

When comparing with the predicted noise impact in the EIA study, the residual impacts predicted in this CNMMP would either remain unchanged or reduced in respect of both exceedances and duration with the implementation of mitigation measures proposed in this CNMMP. Number of months of Examination periods for Yau Ma Tei Catholic Primary School (Hoi Wang Road) predicted to exceed the criterion for school examination periods was reduced from 6 from EIA report to 2 from this CNMMP. Number of months for Tak Cheong Building (W-N8A) predicted to experience the max. noise level (i.e. 82 dB(A)) was reduced from 2 months from EIA report to nil from this CNMMP. The duration (month) of exceedance would also be reduced from 37 from EIA report to 31 from this

Yau Ma Tei East

CNMMP. The predicted max. noise level at Prosperous Garden Block 1 (W-N25A) would be reduced

from 81 dB(A) from EIA report to 80 dB(A) in this CNMMP and the during of exceedance would be

reduced from 9 months from EIA report to 3 months from this CNMMP. Number of months for The

Coronation Block 1 (W-P11) predicted to exceed the noise criteria was reduced from 4 months from

EIA report to nil from this CNMMP.

In view of the comparison between this CNMMP and last version of CNMMP, the duration (month)

of exceedance for 5dB(A) has been reduced from 5 to 2 while the duration (month) of exceedance for

6dB(A) has been reduced from 4 to 2. The reason for the changes is the number of concurrent worksites

have been reduced as a result of the rescheduling of works program.

Specific measures will be implemented for Tak Cheong Building (W-N8A), which is predicted to

experience the most severe exceedance for the longest period. BKSKJV will well plan the working

programme for those work sites close to W-N8A and try the best to shorten the working hours at

weekends or avoid to carry out noisy activities at sensitive hours (0700 – 0900 & 1700 – 1900).

To minimize noise impact generated by frequent construction plants mobilization, the total no. of

construction plants parking at worksite S18 and S35 will be higher than those in EIA prediction.

However, the percentage on-time for most of the construction plants are no more than those in last

version of CNMMP.

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4.0 Conclusion

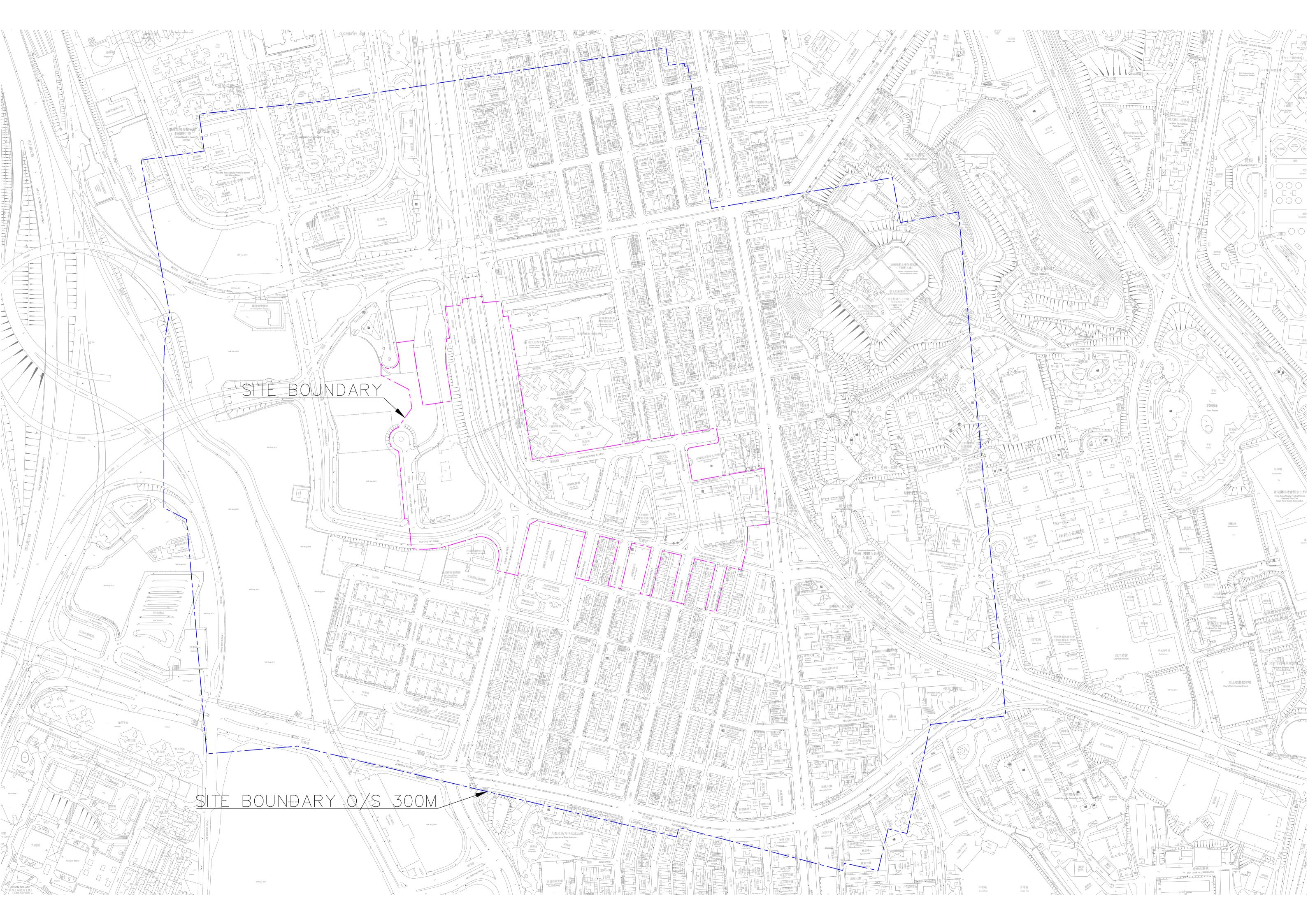
The CNMMP has predicted the construction noise impact from CKR-YMTE to identified NSRs. This plan has taken into account the updated information on PMEs and works programme which would be adopted by BKSKJV. With the implementation of mitigation measures in form of quiet plants, barrier and acoustic fabrics, the construction noise impact are predicted would either remain unchanged or to be reduced in respect of both exceedances and duration.

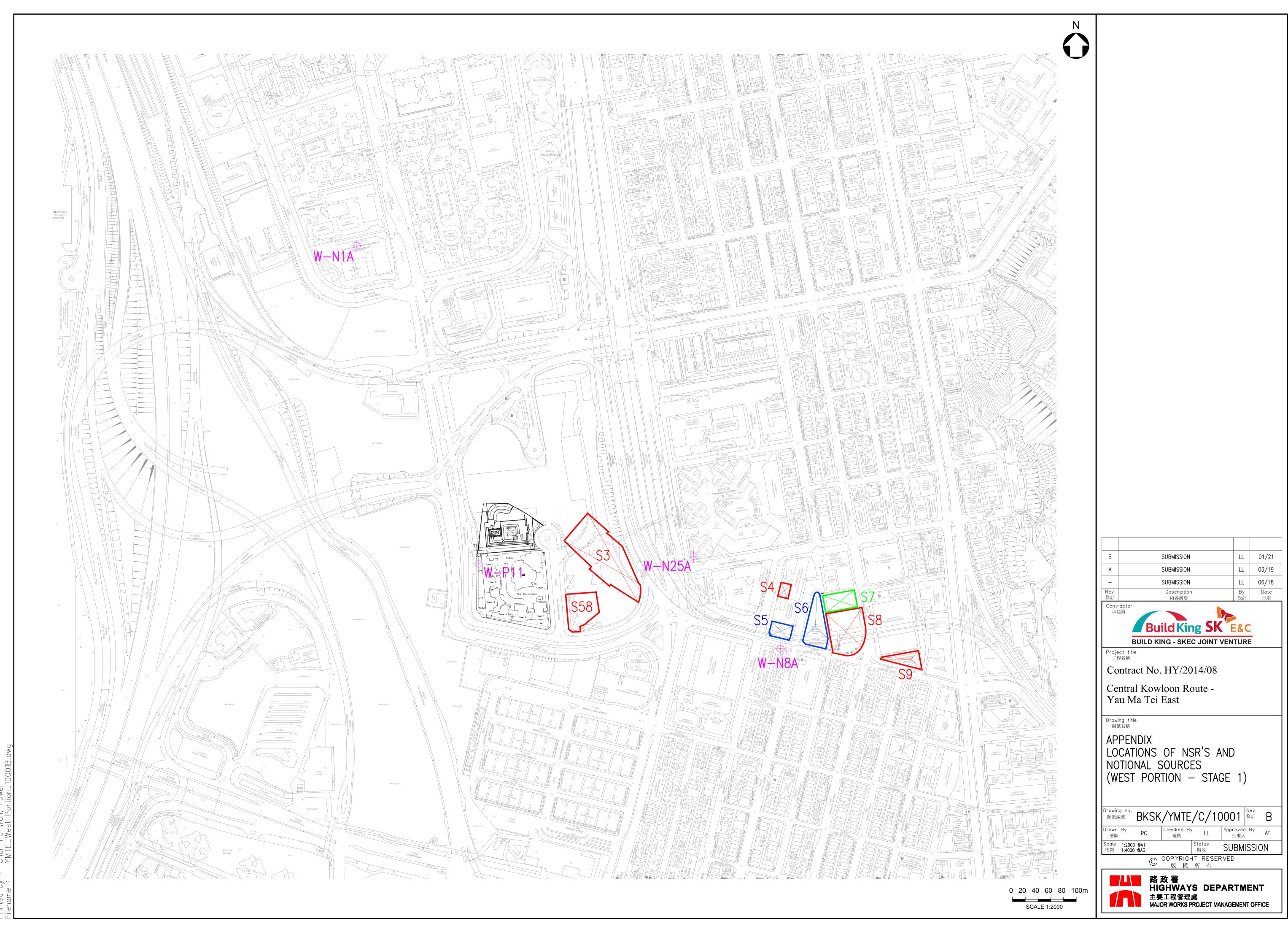
Regular review of this Plan will be performed with a frequency of at least every 6 months during the construction phase and updated version will be submitted if major changes are identified during the review.

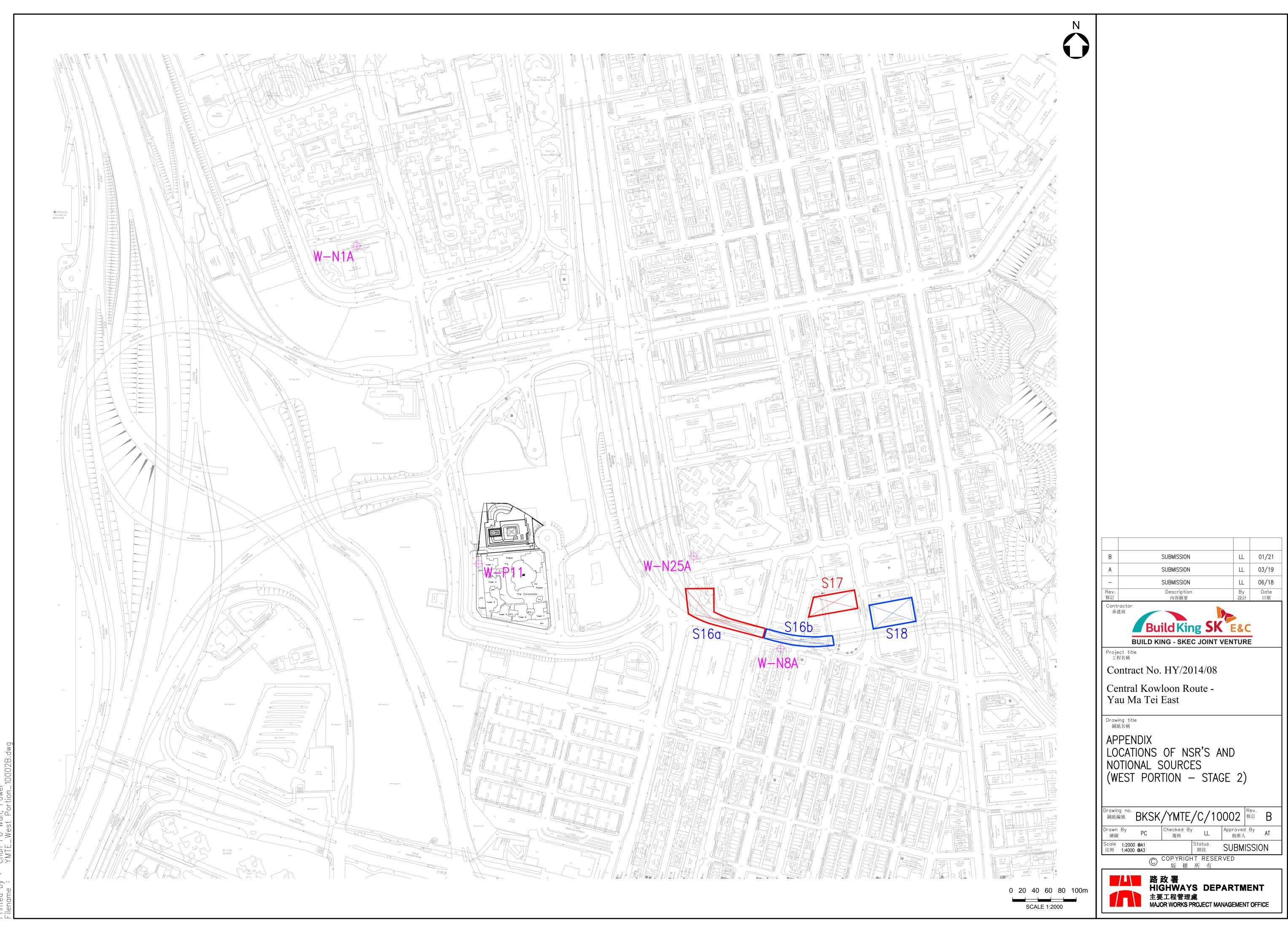
Liaison with affected parties is recommended to minimise the construction noise impacts as far as practicable.

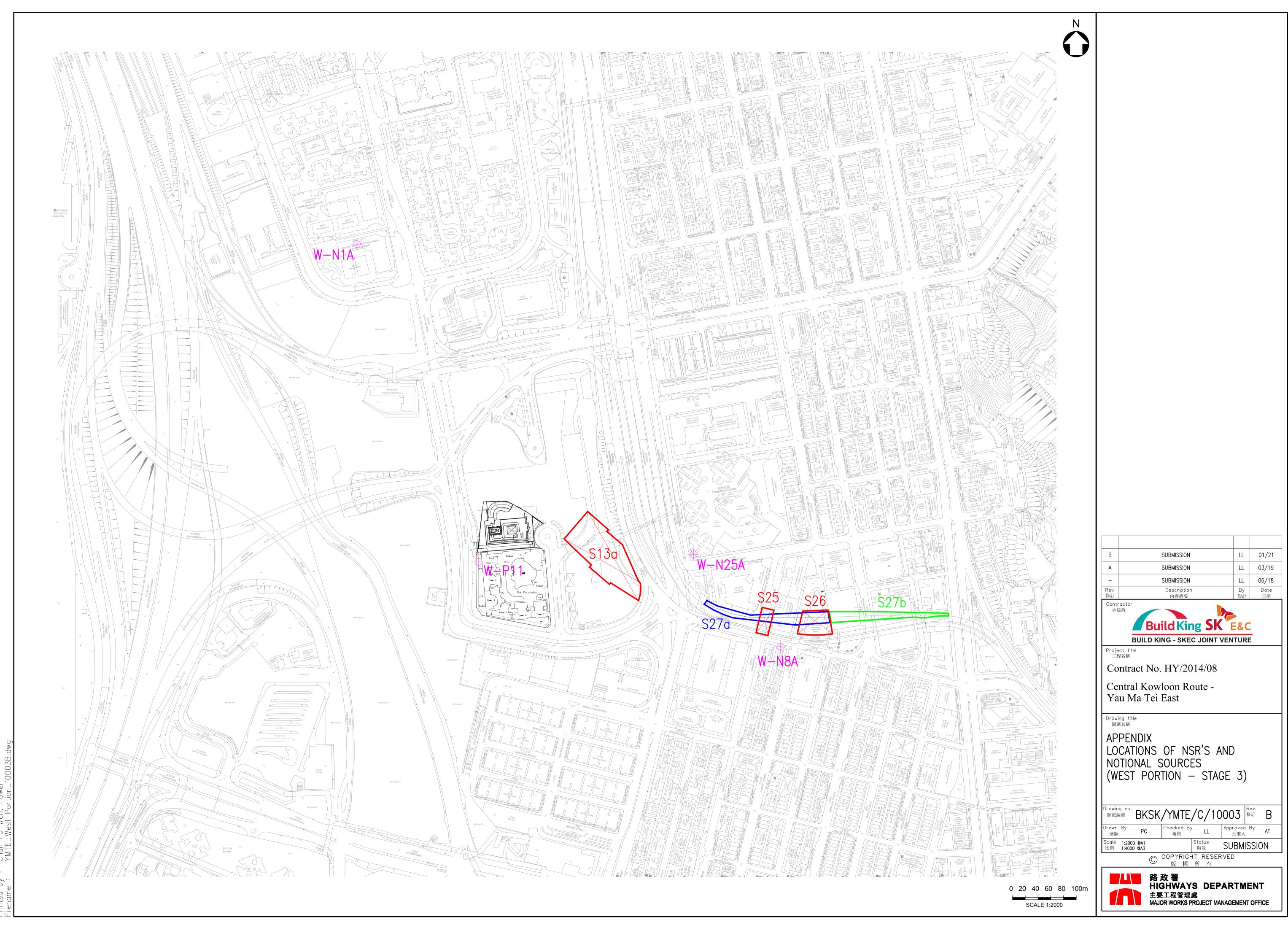
Appendix A

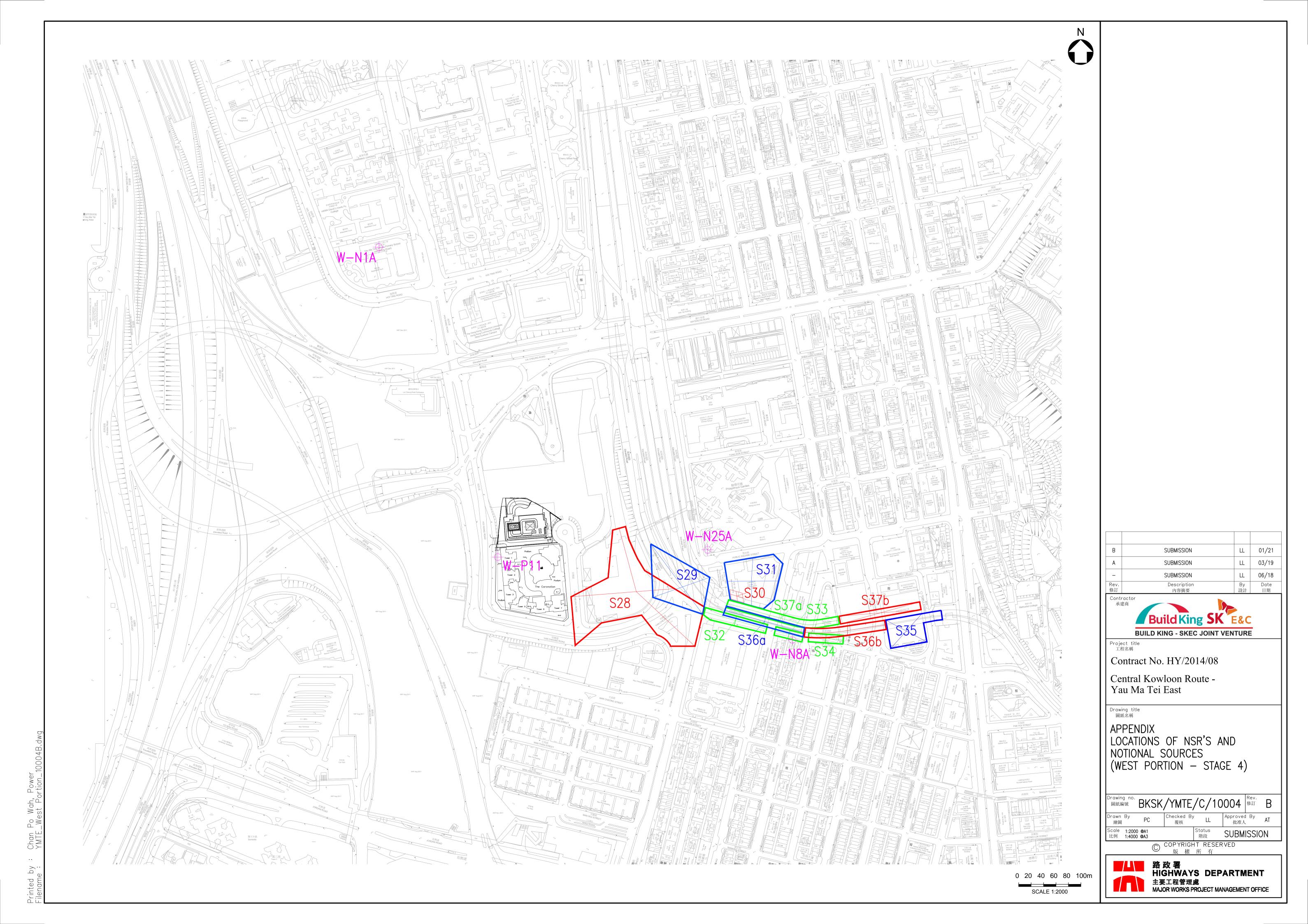
Site Layout and NSR Locations



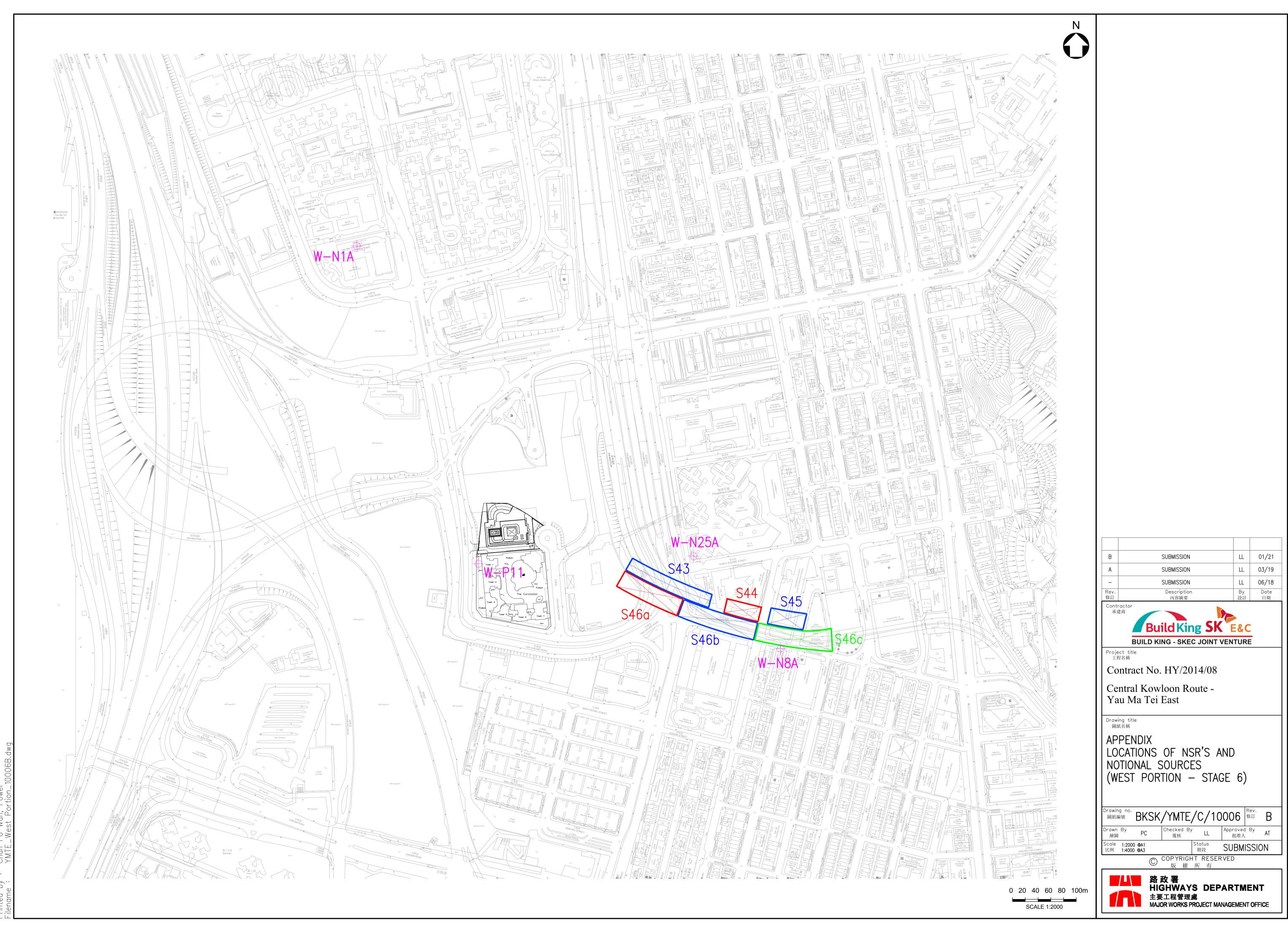


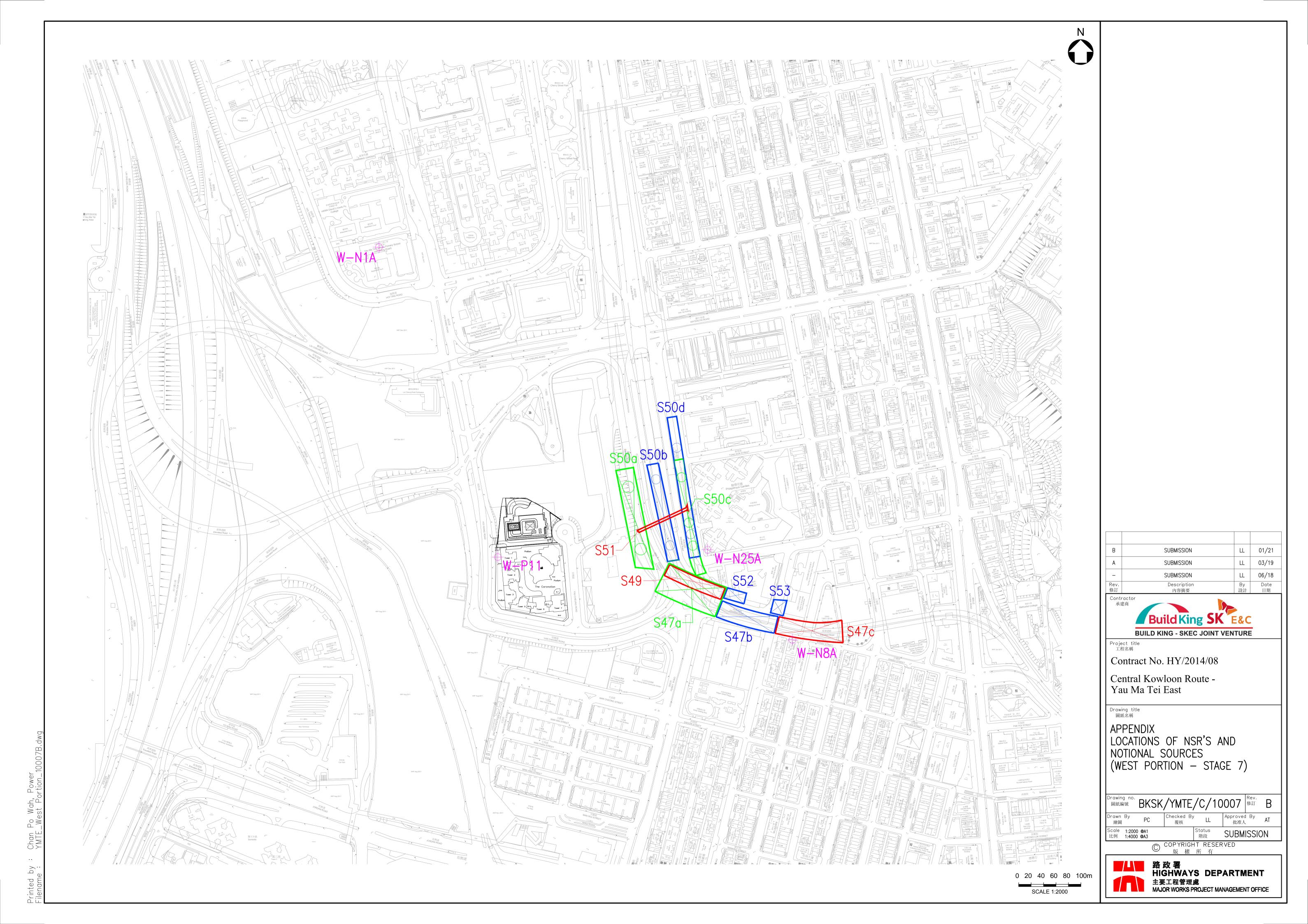


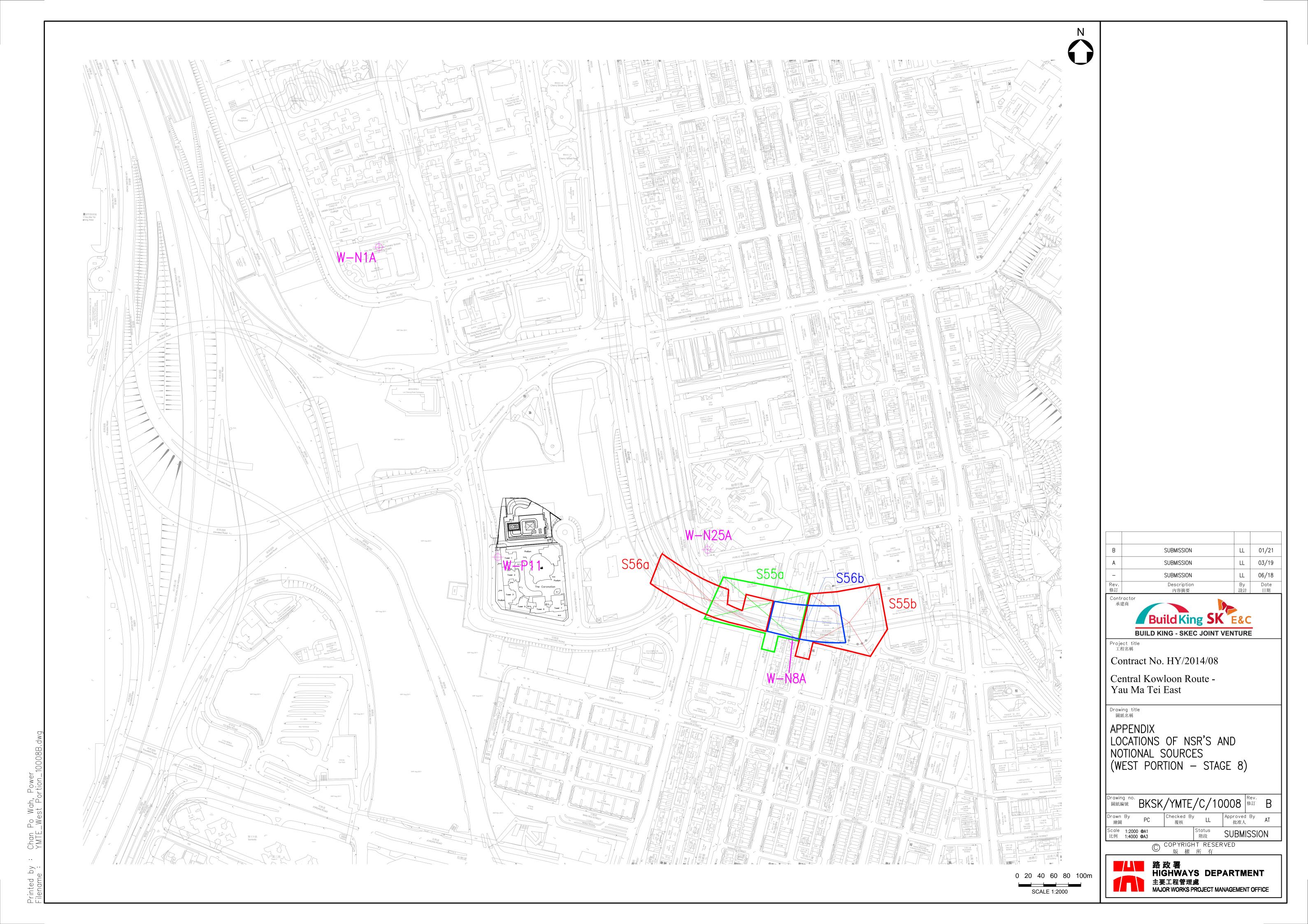












Appendix B

Updated Preliminary Construction Programme

Construction Programme																											1				
Worksite Activity	Jan Feb Ma	2018 r Apr May Jun Jul	Aug Sen Oc	ct Nov I	Dec Jan Feb	Mar Apr	May Jun	019 Jul Aug Sen Oct	Nov Dec J	Ian Feb M	far Apr Ma	2020 av Jun J	ul Aug Ser	Oct Nov	Dec Jan F	eb Mar Apr May	2021 Jun Jul A	Aug Sen	Oct Nov Dec	Jan Feb Mar Apr	May	2022 Jun Jul Aug Sep Oct Nov	Dec Jan	Feb Mar Apr May	2023 Jun Jul Aug Sen	Oct Nov Dec	: Jan Fe	h Mar Apr	2024 May Jun Jul	Aug Sen (Oct Nov De
Worksite Activity Construct Dwall and Traffic Deck - Piling for King Post Post	700 1110	1101 1110 1111	Trag dep de		Dec Star Feb	Trace Tapa	ina) van	7442 500	1101 200 3	100 111	1101		di Pidg Bo	000 1101	Jee Juli 1	co ma mpi ma	Jun 1341 11	ing Dep	Sec 1101 Dec	700 1101		Jun 144 144 000 000 1101	Dec Star	100 1144 1154 1140	Jan Jan Ting Sep	Oct Tion Dec	7.00	1144 1151	THE PAIR OF	ring dop c	Jet 1101 De
62 Control Double of Troff, Data Discharge Well																															
S3 Construct Dwall and Traffic Deck - Diaphragm Walls Construct Southern Dwall & Traffic Deck - Excavation																															
S3 for Diaphragm Walls Construct Southern Dwall & Traffic Deck - Concreting																															
S3 for Diaphragm Walls Construct Southern Dwall & Traffic Deck - Temporary												+																			
S3 Traffic Deck																															
S4 Construction of Methodone Clinic																															
S5 Decant and demolish existing Jade Market																															
S6 Decant and demolish existing Jade Market Construction of Temporary Library & Temporary Jade																															
S7 Market - Foundation																															
Construction of Temporary Library & Temporary Jade S7 Market - Superstructure Construction of Western Access Shaft - Ex cavation of																															
Construction of Western Access Shaft - Ex cavation of S8 Diaphragm Walls																															
Construct Western Access Shaft - Concreting of																															
S8 Diaphragm Wall Construct Western Access Shaft - Soil Excavation of Access Shaft																															
Construct Western Access Shaft - Rock Excavation of																															
S8 Access Shaft																															
S8 Construct Western Access Shaft - Cast Bottom Slab																															
S9 Construct Community Liaison Centre Removal of Excavated Material through West End												+																			
S13a Portal Construct Middle Dwall and Traffic Deck - Piling for	-			++	+			+++-				++		+	-			+		-++-	\vdash	++++		+	++++			+	-		
S16a King Post Construct Middle Dwall and Traffic Deck - Diaphragm				++	\perp			++-				+		+			\Box	+			\sqcup								-		
S16a Walls Construct Middle Dwall and Traffic Deck - Temporary				\perp	$\perp \perp$			++++				\perp		+			+++							+	++++			+	\perp		
S16a Traffic Deck Construct Middle Dwall and Traffic Deck - Piling for										$\perp \perp \perp$				$\bot \bot \bot$															\bot		
S16b King Post Construct Middle Dwall and Traffic Deck - Phing for Construct Middle Dwall and Traffic Deck - Diaphragm														$\perp \perp \perp$																	
S16b Walls												Ш		$\perp \perp \mid$							Ш										
Construct Middle Dwall and Traffic Deck - Temporary S16b Traffic Deck																															
S17 Decant Library and Government Offices in MSCB																															
				1 1																											
S18 Demolish Multi-storey Carpark Buildking (partially) Construction Middle Dwall and Traffic Deck (cross																															
S25 road sections) - Diaphragm Walls Construction Middle Dwall and Traffic Deck (cross																															
S25 road sections) - Temporary Traffic Deck Construction Middle Dwall and Traffic Deck (cross																															
S26 road sections) - Diaphragm Walls Construction Middle Dwall and Traffic Deck (cross																															
S26 road sections) - Temporary Traffic Deck												_																			
Northern Side and the Temporary Deck (From Reclamation Street to Ferry Street) - Foundation and																															
S27a pier												_																			
Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From																															
S27a Reclamation Street to Ferry Street) - Bridge Deck																															
Northern Side and the Temporary Deck (From Reclamation Street to Ferry Street) - Surfacing, MJ,																															
S27a noise barrieres																															
Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Temple																															
S27b Street to Reclamation Street) - Foundation and pier																															
Construct Proposed GRF Flyover (two lanes) on																															
Northern Side and the Temporary Deck (From Temple S27b Street to Reclamation Street)) - Bridge Deck																															
Northern Side and the Temporary Deck (From Temple																															
Street to Reclamation Street) - Surfacing, MJ, noise barrieres																															
S28 Diversion of Ferry Street Junction Construct Southern Dwall & Dwall Crossing Ferry																															
Construct Southern Dwall & Dwall Crossing Ferry S29 Street - Piling for King Post						\mathbb{L}^{\top}	\Box \Box							\perp \Box		\bot															
S29 Street - Piling for King Post Construct Southern Dwall & Dwall Crossing Ferry S29 Street - Grouting for King post																															
Construct Southern Dwall & Dwall Crossing Ferry																															
S29 Street - Excavation for Diaphragm Walls Construct Southern Dwall & Dwall Crossing Ferry S20 Street - Concreting for Diaphragm Walls																															
S29 Street - Concreting for Diaphragm Walls Construct Southern Dwall & Dwall Crossing Ferry S29 Street - Temporary Traffic Deck								1 1 1 1																 							
				+								1												 	 						
S30 Underpinning Works for YMT Police Station - Grouting Underpinning Works for YMT Police Station - Sokcet H				+				1				+																			
S30 Piling Underpinning Works for YMT Police Station - micro-				+								++		+++							++	++++		+ + + +	+ + + +				++		
S30 piling Underpinning Works for YMT Police Station -				+	+							+		+				+						+ + + +		+++			++		
S30 excavation Underpinning Works for YMT Police Station - pipe	+			++	++			++-				+					+++	+			\vdash			+ + + +				+	+		+
S30 piling Underpinning Works for YMT Police Station - tam				+	+							+						+						+ + + +					+		+
S30 grouting Underpinning Works for YMT Police Station -			+	11	+			+				++	+	+	-						\vdash								+		+
S30 Construct underpinning beam and slab				\perp				+++	+++	+			+	+															+		\perp
S31 Decant YMT Police Station Construct Southern Dwall & Dwall Crossing Ferry	\perp				\perp				\Box				\perp	+			+++											$\perp \perp \perp$	\perp		\perp
S32 Street - Piling for King Post Construct Southern Dwall & Dwall Crossing Ferry Construct Southern Dwall & Dwall Crossing Ferry												$\perp \perp$		$\bot \bot \bot$																	
Construct Southern Dwall & Dwall Crossing Ferry S32 Street - Grouting for King post Construct Southern Dwall & Dwall Crossing Ferry														$\perp \perp \perp$																	
Construct Southern Dwall & Dwall Crossing Ferry S32 Street - Excavation for Diaphragm Walls Construct Southern Dwall & Dwall Crossing Ferry				┸┨	\bot \Box						$\perp \!\!\! \perp \!\!\! \top$	ШT			\bot \top						LТ								\bot \bot \top		\bot \bot \top
Construct Southern Dwall & Dwall Crossing Ferry S32 Street - Concreting for Diaphragm Walls																															
S32 Street - Concreting for Diaphragm Walls Construct Southern Dwall & Dwall Crossing Ferry S32 Street - Temporary Traffic Deck				1 1																											
S32 Street - Temporary Traffic Deck Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post																															
S33 Street - Piling for King Post Construct Southern Dwall & Dwall Crossing Ferry				+	+						+	+						+													
S33 Street - Grouting for King post Construct Southern Dwall & Dwall Crossing Ferry S33 Street - Excavation for Diaphragm Walls Construct Southern Dwall & Dwall Crossing Ferry Uniform Street - Excavation for Diaphragm Walls				+	++					+	++	++		+++	+			+			\vdash	++++		+ + + +					+		+
S33 Street - Excavation for Diaphragm Walls Construct Southern Dwall & Dwall Crossing Ferry	+			+	+						+						+++	\dashv						+ + + +					+		
S33 Street - Concreting for Diaphragm Walls												\perp												\bot				\bot			
S33 Street - Concreting for Diaphragm Walls Construct Southern Dwall & Dwall Crossing Ferry S33 Street - Temporary Traffic Deck				1 1			1 1		1 1 1						1 1			1 1								1 1 1		1 1 1			

Construction	Programme																																					
Worksite	Activity	Jan Fe	Mar Aj	or May J	2018 un Jul A	Aug Sep	Oct Nov Dec	Jan Feb	Mar Apr N	2019 May Jun Ju	ıl Aug Sep	Oct Nov Dec	Jan Feb I	Mar Apr N	2020 Iay Jun Jul	l Aug S	ep Oct Nov	Dec Jan	Feb Mar A	Apr May Jun	2021 Jul Aug	Sep Oct No	v Dec Jan	Feb Mar A	Apr May	2022 Jun Jul Auş	Sep Oct No	v Dec Jan	Feb Mar	Apr May Jun	Jul Aug	Sep Oct No	v Dec Jan	Feb Mar	Apr May	2024 Jun Jul .	Aug Sep Oc	t Nov Dec
S34	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post Construct Southern Dwall & Dwall Crossing Ferry																																					
S34	Street - Grouting for King post Construct Southern Dwall & Dwall Crossing Ferry																																					
S34 S34	Street - Excavation for Diaphragm Walls Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls																																					
S34	Street - Concreting for Diaphragm Walls Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck Demolish Multi-storey Carpark Buildking (remaining																																					
533	part)																																					
	Demolish existing flyover					+																																
S37a	Demolish existing flyover Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Foundation and																																					
S37a	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Bridge Deck Construct Proposed GRF Flyover (the remain Part from	n n				\perp																																
S37a	Reclamation Street to Ferry Street) - Surfacing, MJ, Construct Proposed GRF Flyover (the remain Part from	n																																				
S37b S37b	Reclamation Street to Ferry Street) - Foundation and Construct Proposed GRF Flyover (the remain Part fron Reclamation Street to Ferry Street) - Bridge Deck Construct Proposed GRF Flyover (the remain Part fron	n																																				
S37b	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Surfacing, MJ, Construct Southern Dwall and Traffic Deck (cross road	n d																																				
S39	sections) - Diaphragm Walls Construct Southern Dwall and Traffic Deck (cross road)	d				+																																
S39 S40	sections) - Temporary Traffic Deck Construct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm Walls	d				+																																
S40	Construct Southern Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck Construct Southern Dwall and Traffic Deck (cross road	d																																				
S41	sections) - Diaphragm Walls Construct Southern Dwall and Traffic Deck (cross road	d			+	+																																
S41 S42	sections) - Temporary Traffic Deck Demolish special clinic extension building																																					
S43	Demolish special clinic extension building Excavation of Tunnel Tubes (under cover of traffic deck) Construct Southern Dwall & Traffic Deck - Piling for																																					
S44	King Post Construct Southern Dwall &Traffic Deck - Grouting for	or			+	+																																
S44	King Post Construct Southern Dwall & Traffic Deck - Excavation	n																																				
S44	for Diaphragm Walls Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls																																					
S44	Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck Construct Northern Dwall & Traffic Deck - Piling for	y																																				
S45	King Post Construct Northern Dwall & Traffic Deck - Grouting for	or																																				
S45	King Post Construct Northern Dwall & Traffic Deck - Excavation for Diaphrasm Walls Construct Northern Dwall & Traffic Deck - Concreting	n																																				
S45	for Diaphragm Walls Construct Northern Dwall & Traffic Deck - Concreting for Diaphragm Walls Construct Northern Dwall & Traffic Deck - Temporary																																					
S45	Traffic Deck Excavation of Tunnel Tubes (under cover of traffic deck)				++																																	
S46b	Excavation of Tunnel Tubes (under cover of traffic deck)																																					
S46c	Excavation of Tunnel Tubes (under cover of traffic deck) Underpinning of Existing Bridges (under cover of traff deck)	fic																																				
S47a	deck) Construction of the Cut and Cover Tunnel (under cove of traffic deck)					++																																
S47b	Underpinning of Existing Bridges (under cover of traff deck)																																					
S47b	Construction of the Cut and Cover Tunnel (under cove of traffic deck) Underpinning of Existing Bridges (under cover of traff	fic																																				
S47c	deck) Construction of the Cut and Cover Tunnel (under cove.	r												++																								
S49	of traffic deck) Underpinning of Existing Bridges (under cover of traff deck)	fic																																				
	Foundation (west side) for noise enclosure on GRF								$ \ \ $																													
	Flyover (Ferry Street Section) Construct noise barriers and noise enclosure on GRF																																					
	Flyover (Ferry Street Section) and along Ting Ping Street	+		+	++	+								++			+																+	\vdash			+	
S50b	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)																																					
	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping																																					
S50b	Street Foundation (west side) for noise enclosure on GRF				+	+																																
S50c	Flyover (Ferry Street Section) Construct noise barriers and noise enclosure on GRF																																					
S50c	Flyover (Ferry Street Section) and along Ting Ping Street																																					
	Produced Service V. E. C.																																					
	Road works for re-align Ferry Street at-grade road Demolish the Existing Ferr Street Subway																																					
S52	Demolish the Existing Ferr Street Subway Construct Northern Dwall & Traffic Deck (cross road sections) - Excavation for Diaphragm Walls Construct Northern Dwall & Traffic Deck (cross road																																					
S52	Sections) - Concreting for Diaphragm Walls Construct Northern Dwall & Traffic Deck (cross road)			+	+	+								++																								
S52	sections) -Temporary Traffic Deck Construct Northern Dwall & Traffic Deck (cross road				++	+								+														+										
S53	sections) - Excavation for Diaphragm Walls Construct Northern Dwall & Traffic Deck (cross road sections) - Concreting for Diaphragm Walls Construct Northern Dwall & Traffic Deck (cross road																																					
S53	sections) -Temporary Traffic Deck	+		+	++	+								++			+																				+	
S55a	Reinstate the affected roads and footpaths Road works for Section between Ferry Street and Nathan Road				++	+								++																								
S55b	Reinstate the affected roads and footpaths Road works for Section between Ferry Street and																																					
S55b	Road works for Section between Ferry Street and Nathan Road																																					

rksite	Activity	Ion Eeb M	or Ann Mov Iv	2016 in Inl Δ:	ıa Sen Oc	Nov Dec	on Eeb Mo	r Anr May	Jun Jul	Aug Sep Oct No	v Dec Is	an Eeb M	or Apr May Jun	Inl Δnα S	en Oct No	Dec Jan Feb I	or Apr Mov	Jun Jul 4	lug Sen C	let Nov	Dec Jan Feb	Mar Apr	May Inn	Inl Ang	Sen Oct N	ov Dec Isr	n Eeb Mar	Apr. May	Jun Jul	Δug Sep Or	ct Nov I	Dec Ion I	ieh Mar Δ:	nr May I	2024 un Iul	Aug Sen (oct Nov De
,	Construction of the Cut and Cover Tunnel (under cover	Juli 100 II	an ripi ising se	di 3di 71	ig bcp cc	1101 Dec	tair 1 CD IVIE	1 21pt Iviny	Juli Jul	ring bup out the	T DCC 36	all I CO IV	at 21pt Ivity Juli .	rui /iug c	rep Oct 140	Dec Jan 1 co 1	au zipi ivity	Juli Jul 1	iug Dep C	ACT 1401	Dec Jan 100	IVIEU / Ipi	Ivitty Juli	Jui 7iug	DCP OCC 1	Or Dec Jan	ii i co iviai	71pi Iviny	Juli Juli	riug bep oc	CC IVOV I	occ otal 1	CO IVILII 73	DI IVILLY J	un Jui	rug ocp	AC 1101 DO
	f traffic deck)																																				
	Backfilling on Top of Cut and Cover Tunnel (under																																				
	over of traffic deck)																																				
	Construction of the Cut and Cover Tunnel (under cover																																				
	Backfilling on Top of Cut and Cover Tunnel (under					+				-												_						-									
	over of traffic deck)																																				
	Construction of Temporary Maternal and Child Health																																		_		
	Centre - Foundation																																				
	Construction of Temporary Maternal and Child Health																																				
	Centre - Superstructure																																				

Appendix C

Detailed Construction Noise Assessment

Build King - SKEC Joint Venture
Construction Noise Assessment
Period: 0700 to 1900 (except general holidays)
Noise Sensitive Receiver: W-N1A Yau Ma Tei Catholic Primary School (Hoi Wang Road)
Mitigation Measures Scenario

Moico	Critoria:	70dR(A)	65dR(A)	during	avan

Worksite	Activity	Period	РМЕ	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on- time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level fo each group, dB(A)
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	300	-58	3	-5	47	45 1717
			Concrete pump	CNP047	109	80	-1	108	1	108	300	-58	3	-10	43	
			Dump Truck with Grab	CNP069	105	70	-2	103	- 1	103	300	-58	3	-5	44	51
			Generator	CNP103	95	100	0	95	2	98	300	-58	3	-10	33	
	Construct Dwall and Traffic Deck		Lorry	CNP142	105	60	-2	103	- 1	103	300	-58	3	-5	43	Ī
	- Piling for King Post	Jul-18	or					•	•				•			•
	- Filling for King Post		Generator	CNP103	95	100	0	95	2	98	300	-58	3	-10	33	
			Lorry	CNP142	105	60	-2	103	- 1	103	300	-58	3	-5	43	
			Crane Mobile	BS D7-114	101	70	-2	99	- 1	99	300	-58	3	-5	40	50
			Bored Piling Crane mounted auger	BS D4-37	111	70	-2	109	2	112	300	-58	3	-10	48	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	300	-58	3	-5	38	
			Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	300	-58	3	0	34	
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	300	-58	3	-5	47	1
			Concrete pump	CNP047	109	80	-1	108	1	108	300	-58	3	-10	43	
			Generator	CNP103	95	100	0	95	2	98	300	-58	3	-10	33	- 51
			Lorry	CNP142	105	70	-2	103	1	103	300	-58	3	-5	44	-
		Aug 2018	Poker, Vibratory, Hand Held	CNP173	102	60	-2	100	1	100	300	-58	3	-5	40	-
	Construct Dwall and Traffic Deck	- Nov	or	OI41 170	102	00		100		100	300	-30	J J	- 3	40	1
	- Diaphragm Walls		Dump Truck with Grab	CNP069	105	70	-2	103	- 1	103	300	-58	3	-5	44	1
S3			Generator	CNP103	95	100	0	95	2	98	300	-58	3	-10	33	1
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	300	-58	3	-5	40	1
			Piling, Diaphragm Wall, Bentonite Filtering	DS D7-114	101	70	-2	99	-	99	300	-36	3	-5	40	47
			Plant	CNP162	105	90	0	105	1	105	300	-58	3	-10	40	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	300	-58	3	-5	37	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	300	-58	3	-5	44	
			Generator	CNP103	95	100	0	95	1	95	300	-58	3	-10	30	
	Construct Southern Dwall &	Nov 2018	Lorry	CNP142	105	70	-2	103	1	103	300	-58	3	-5	44	
	Traine Book Executation for	- lan 2010	Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering	BS D7-114	101	70	-2	99	1	99	300	-58	3	-5	40	49
	Diaphragm Walls		Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	300	-58	3	-10	40	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	300	-58	3	-5	37	1
	Construct Southern Dwall		Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	300	-58	3	0	34	
	&Traffic Deck - Concreting for	Feb-19	Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	300	-58	3	-5	47	49
	Diaphragm Walls		Concrete pump	CNP047	109	80	-1	108	1	108	300	-58	3	-10	43	1
	0		Generator	CNP103	95	70	-2	93	1	93	300	-58	3	-10	29	
	Construct Southern Dwall &		Lorry	CNP142	105	90	0	105	1	105	300	-58	3	-5	45	1
	Traffic Deck - Temporary Traffic	Mar-19	Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	300	-58	3	-5	38	47
	Deck		Crane Mobile	BS D7-114	101	70	-2	99	1	99	300	-58	3	-5	40	1
S13a	Removal of Excavated Material through West End Portal	Apr 2010	Dump Truck with Grab	CNP069	105	70	-2	103	10	113	300	-58	3	-5	54	54

WNIA																																																													
WINIA				2018								2019								20	020								202	1								2022									2023					T				20"	.24				_
Worksite Activity	Jan Feb	Mar A	or May	Jun Jul	Aug	Sep Oct	Nov	Dec Jan	Feb 1	dar Apr	May J	ın Jul	Aug Se	D Oct	Nov	Dec Ja	1 Feb	Mar .	Apr M	av Jun	Jul	Aug Se	ep Oct	Nov	Dec Jar	n Feb	Mar A	or Ma	v Jun	Jul Au	12 Sep	Oct 1	iov Dec	Jan	Feb M	dar Apr	May	Jun Jul	Aug	Sep C	Oct Nov	Dec	Jan Fe	eb Mar	Apr	May J	lun Jul	Aug	Sep	Oct N	iov Der	c Jan	Feb	Mar A	Apr Ma	y Jun	Jul /	Aug Ser	p Oct	Nov	D
Construct Dwall and Traffic Deck - Piling for King Post				50,9	9																																																				1				Γ
Construct Dwall and Traffic Deck - Diaphragm Walls					50.6	50.6 50.6	50.6																																																	T					Γ
Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls	1						48.8	8.8 48.8																																																					İ
Construct Southern Dwall & Traffic Deck - Concreting for Diaphragm Walls									48.9																																															1					
Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck									4	6.8																																																			
Removal of Excavated Material through West End Portal										010							53.9	53.9	53.9																																					1					
Total SPL (YMTE only), dB(A)		-		- 51	51	51 51	53	49 49	49	47 -	-			-	-		54	54	54 -	-	-			-		-	-		-		-	-		-	-		-		-	-		-			-	-		-		-			-				-		-		-
Corrected SPL (YMTE only), dB(A)															-			-						-																								-					-							-	
Exceedance (YMTE only), dB(A)																																																													
Range (YMTE only), dB(A)	48-55																																																												
Total SPL (YMTW only), dB(A)									59	57 57	60 6) 65	65 64	64	64	64 65	65	65	65 65	65	65	65 63	5 65	65	65 65	65	65 6	55 65	65	66 66	66	65	55 65	65	65 6	53 63	63	67 67	67	67 6	7 67	65	65 65	5 65	65	65 (55 65	65	65	65											
Cumulative SPL (YMTE+YMTW), dB(A)				- 51	51	51 51	53	49 49	59	57 57	60 6) 65	65 64	64	64	64 65	65	65	65 65	65	65	65 63	5 65	65	65 65	65	65 6	55 65	65	66 66	66	65	55 65	65	65 6	53 63	63	67 67	67	67 6	7 67	65	65 65	5 65	65	65 (55 65														
Cumulative Exceedance (YMTE+YMTW), dB(A)		-			-		-		-		-	-		-	-		-	-	-	-	-	-	-	-		-	-		-		-	-		-	-		-	2 -	-	-	- 2	-			-	-		-	-	-		-	-			-			-	-	

Cumularive Exceedance (1 Ni 18+7 MI, W), day(4)

Notes:

[1] For works that would be conducted in more than one works sites, the distance of the works site closer to the NSR is adopted in the assessment as the worst-case scenario

[2] Works focated outside 300m boundary of the NSR
are not assessed

[3] For the calculation of sound pressure levels (SFL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EFD.

[4] The concurrent work that is within 300m of the NSR, CKR YMTW section. Following the YMTW CNMMP, the noise level is extracted for this assessment.

Build King - SKEC Joint Venture
Construction Noise Assessment
Period: 0700 to 1900 (except general holidays)
Noise Sensitive Receiver: W-N8A Tak Cheong Building
Mitigation Measures Scenario

Noise Criteria: 75dB(A)

Worksite	Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on- time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level for each group, dB(A)
			Concrete Lorry Mixer Concrete pump	CNP044 CNP047	109 109	60 80	-2 -1	107 108	1	107 108	250 250	-56 -56	3	-5 -10	49 45	
			Dump Truck with Grab	CNP069	105	70 100	-2 0	103	1 2	103	250	-56	3	-5 -10	45 35	52
	Construct Dwall and Traffic Deck -		Generator Lorry	CNP103 CNP142	95 105	60	-2	95 103	1	98 103	250 250	-56 -56	3	-10 -5	45	
	Piling for King Post		or Generator	CNP103	95	100	0	95	2	98	250	-56	3	-10	35	
			Lorry	CNP142	105	60	-2	103	1	103	250	-56	3	-5	45	
			Crane Mobile Bored Piling Crane mounted auger	BS D7-114 BS D4-37	101	70 70	-2 -2	99 109	1 2	99 112	250 250	-56 -56	3	-5 -10	41 50	52
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99 90	70 70	-2 -2	97 88	1	97 88	250 250	-56 -56	3	-5 0	39 35	
			Bar Bender and Cutter Concrete Lorry Mixer	CNP021 CNP044	109	60	-2	107	1	107	250	-56	3	-5	49	İ
			Concrete pump Generator	CNP047 CNP103	109 95	80 100	-1 0	108 95	1 2	108 98	250 250	-56 -56	3	-10 -10	45 35	52
			Lorry	CNP142	105	70	-2	103	1	103	250	-56	3	-5	45	<u> </u>
	Construct Dwall and Traffic Deck -	Aug 2018 -	Poker, Vibratory, Hand Held or	CNP173	102	60	-2	100	1	100	250	-56	3	-5	42	
S3	Diaphragm Walls		Dump Truck with Grab	CNP069 CNP103	105 95	70 100	-2 0	103 95	1 2	103 98	250 250	-56 -56	3	-5 -10	45 35	-
			Generator Crane Mobile	BS D7-114	101	70	-2	99	1	99	250	-56	3	-10	41	49
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	250	-56	3	-10	42	45
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	250	-56	3	-5	39	
			Dump Truck with Grab Generator	CNP069 CNP103	105 95	70 100	-2 0	103 95	1	103 95	250 250	-56 -56	3	-5 -10	45 32	İ
	Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm	Nov 2018 -	Lorry Crane Mobile	CNP142 BS D7-114	105 101	70 70	-2 -2	103 99	1	103 99	250 250	-56 -56	3	-5 -5	45 41	50
	Walls	Jan 2019	Piling, Diaphragm Wall, Bentonite Filtering	CNP162	101	90	-2	105		105	250	-56	3	-5 -10	41	50
			Plant Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	250	-56	3	-10	39	
	Construct Southern Dwall &Traffic		Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	250	-56	3	-5	35	
	Deck - Concreting for Diaphragm Walls	Feb-19	Concrete Lorry Mixer	CNP044 CNP047	109 109	60 80	-2 -1	107 108	1	107 108	250 250	-56 -56	3	-5 -10	49 45	50
			Concrete pump Generator	CNP103	95	70	-2	93	1	93	250	-56	3	-10	30	
	Construct Southern Dwall & Traffic	Mar-19	Lorry	CNP142	105 99	90 70	0	105	1	105	250	-56	3	-5	47 39	48
	Deck - Temporary Traffic Deck		Excavator/Loader, Wheeled/Tracked Crane Mobile	EPD-09560 BS D7-114	101	70	-2 -2	97 99	1	97 99	250 250	-56 -56	3	-5 -5	41	•
			Bar Bender and Cutter	CNP021 CNP044	90	60 50	-2 -3	88	1 3	88	70	-45 -45	3	0	46	
			Concrete Lorry Mixer Concrete pump	CNP047	109 109	70	-2	106 107	1	111 107	70 70	-45	3	-5 -10	64 56	İ
S4	Construction of Methodone Clinic	Apr 2018 - Jan 2019	Generator Crane Mobile	CNP103 BS D7-114	95 101	100 50	-3	95 98	1	95 98	70 70	-45 -45	3	-10 -5	43 51	66
			Poker, Vibratory, Hand Held	CNP173	102	50	-3	99	3	104	70	-45	3	-5.0	57	İ
			Saw, Circular Wood Excavator/Loader, Wheeled/Tracked	BS D7-79 EPD-09560	103 99	50 70	-3 -2	100 97	1	103 97	70 70	-45 -45	3	-5 -5	56 51	
S5	Decant and demolish existing Jade		Breaker, Excavator Mounted (Hydraulic) Dump Truck with Grab	BS D8-13 CNP069	110 105	60 50	-2 -3	108 102	1	108 102	19 19	-34 -34	3	-5 -5	72 66	74
	Market		Concrete crusher, excavator mounted	CNP055	103	70 80	-2 -1	101	1	101	19	-34 -41	3	-5 -5	66 66	
S6	Decant and demolish existing Jade Market	Dec-20	Breaker, Excavator Mounted (Hydraulic) Dump Truck with Grab	BS D8-13 CNP069	105	70	-2	103	2	106	45 45	-41	3	-5 -5	63	68
	Walket		Concrete crusher, excavator mounted Bar Bender and Cutter	CNP055 CNP021	103 90	90 60	-2	103 88	1	103 88	45 85	-41 -47	3	-5 0	59 44	
			Concrete Lorry Mixer	CNP044 CNP047	109	50 70	-3 -2	106 107	3	111 107	85	-47 -47	3	-5 -10	62	İ
	Construction of Temporary Library & Temporary Jade Market -	May 2019	Concrete pump Generator	CNP103	95	100	0	95	2	98	85 85	-47	3	-10	54 44	64.5
	Foundation	- Oct 2019	Crane Mobile Poker, Vibratory, Hand Held	BS D7-114 CNP173	101 102	50 50	-3 -3	98 99	3	101 104	85 85	-47 -47	3	-5 -5	52 55	01.0
S7			Saw, Circular Wood Excavator/Loader, Wheeled/Tracked	BS D7-79 EPD-09560	103 99	50 70	-3 -2	100 97	2	103 97	85 85	-47 -47	3	-5 -5	54 49	ļ
5/			Bar Bender and Cutter	CNP021	90	60	-2	88	2	91	85	-47	3	0	47	
	Construction of Temporary Library		Concrete Lorry Mixer	CNP044	109	50	-3	106	2	109	85	-47	3	-5	60	
	& Temporary Jade Market -	Nov 2019 - Feb 2020	Concrete pump	CNP047	109	40 100	-4 0	105	1 2	105 98	85 85	-47 -47	3	-10 -10	51 44	62.3
	Superstructure		Generator Crane Mobile	CNP103 BS D7-114	95 101	50	-3	95 98	1	98	85	-47	3	-10	49	İ
			Saw, Circular Wood Dump Truck with Grab	BS D7-79 CNP069	103 105	50 50	-3 -3	100 102	2	103 105	85 80	-47 -46	3	-5 -5	54 57	
	Construction of Western Access		Generator	CNP103	95	100	0	95	3	100	80	-46	3	-10	47	İ
	Shaft - Excavation of Diaphragm	Apr-18	Lorry Crane Mobile	CNP142 BS D7-114	105 101	70 50	-2 -3	103 98	1 2	103 101	80 80	-46 -46	3	-5 -5	55 53	62
	Walls		Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	3	109	80	-46	3	-10	56	
			Excavator/Loader, Wheeled/Tracked Bar Bender and Cutter	EPD-09560 CNP021	99 90	60 60	-2 -2	97 88	1	97 88	80 80	-46 -46	3	-5 0	49 45	
			Concrete Lorry Mixer	CNP044	109	50	-3	106	3	111	80	-46	3	-5	63	İ
	Construct Western Access Shaft - Concreting of Diaphragm Wall	May-18	Concrete pump Generator	CNP047 CNP103	109 95	70 100	-2 0	107 95	3	107 100	80 80	-46 -46	3	-10 -10	54 47	64
			Lorry Crane Mobile	CNP142 BS D7-114	105 101	70 50	-2 -3	103 98	1 2	103 101	80 80	-46 -46	3	-5 -5	55 53	İ
			Dump Truck	CNP069	105	50	-3	102	2	105	80	-46	3	-5	57	
	0		Generator Lorry	CNP103 CNP142	95 105	100 50	-3	95 102	2	98 102	80 80	-46 -46	3	-10 -5	45 54	+
	Construct Western Access Shaft - Soil Excavation of Access Shaft	Dec-19	Tracked crane Excavator/Loader, Wheeled/Tracked	BS D7-114 EPD-09560	101 99	70 60	-2 -2	99 97	1 3	99 102	80 80	-46 -46	3	-5 -5	51 53	61
S8			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	5	92	80	-46	3	0	49	İ
			Ventilation Fan Breaker, Excavator Mounted (Hydraulic)	CNP241 BS D8-13	108	90 60	-2	108 108	3	111 113	80 80	-46 -46	3	-15 0	52 69	
			Rock drill, excavator mounted	SIL EIA	108	50	-3	105	3	110	80	-46	3	0	67	
	Construct Western Access Shaft -	Jan 2020 -	Splitter, excavator mounted Dump Truck	BS C12/2 CNP069	101 105	50 50	-3 -3	98 102	3	103 105	80 80	-46 -46	3	-5	60 57	72
	Rock Excavation of Access Shaft	Mar 2020	Generator Lorry	CNP103 CNP142	95 105	100 50	0 -3	95 102	2	98 102	80 80	-46 -46	3	-10 -5	45 54	1
			Tracked crane Ventilation Fan	BS D7-114	101	70	-2	99 108	- 1	99	80	-46 -46	3	-5 -15	51 52	Ī
			Bar Bender and Cutter	CNP241 CNP021	108 90	90 60	-2	88	3	93	80 80	-46	3	0	49	
			Concrete Lorry Mixer Concrete pump	CNP044 CNP047	109 109	50 50	-3 -3	106 106	2	109 109	80 80	-46 -46	3	-5 -10	61 56	+
	Construct Western Access Shaft -		Generator	CNP103	95	100	0	95	2	98	80	-46	3	-10	45	C.E
	Cast Bottom Slab	Apr-20	Crane Mobile Poker, Vibratory, Hand Held	BS D7-114 CNP173	101 102	50 50	-3 -3	98 99	3	98 104	80 80	-46 -46	3	-5 -5	50 56	65
			Saw, Circular Wood Water Pump, Submersible (Electric)	BS D7-79 CNP283	103 85	50 100	-3 0	100 85	3	105 91	80 80	-46 -46	3	-5 0	57 48	+
			Ventilation Fan	CNP241	108	90	0	108	3	112	80	-46	3	-15	54	
S13a	Removal of Excavated Material through West End Portal	Feb 2020 - Apr 2020	Dump Truck with Grab	CNP069	105	70	-2	103	10	113	250	-56	3	-5	55	55

Build King - SKEC Joint Venture

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Noise Criteria: 75dB(A)

Worksite	Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on- time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level for each group, dB(A)
	Construct Dwall and Traffic Deck -		Concrete Lorry Mixer Concrete pump Dump Truck with Grab Generator Lorry	CNP044 CNP047 CNP069 CNP103 CNP142	109 109 105 95 105	60 80 70 100 60	-2 -1 -2 0 -2	107 108 103 95 103	1 1 1 2	107 108 103 98 103	55 55 55 55 55	-43 -43 -43 -43	3 3 3 3	-5 -10 -5 -10	62 58 59 48 58	66
	Construct Dwaii and Traffic Deck - Piling for King Post	Nov-19	or Generator Lorry Crane Mobile Bored Piling Crane mounted auger Excavator/Loader, Wheeled/Tracked	CNP103 CNP142 BS D7-114 BS D4-37 EPD-09560	95 105 101 111 99	100 60 70 70 70	0 -2 -2 -2 -2	95 103 99 109 97	2 1 1 2	98 103 99 112 97	55 55 55 55 55	-43 -43 -43 -43 -43	3 3 3 3	-10 -5 -5 -10	48 58 55 63 53	65
16a			Bar Bender and Cutter Concrete Lorry Mixer Concrete pump Generator Lorry	CNP021 CNP044 CNP047 CNP103 CNP142	90 109 109 95 105	70 60 80 100 70	-2 -2 -1 0 -2	88 107 108 95 103	1 1 1 2	88 107 108 98 103	55 55 55 55 55	-43 -43 -43 -43	3 3 3 3	0 -5 -10 -10 -5	49 62 58 48 59	65
	Construct Middle Dwall and Traffic Deck - Diaphragm Walls	Dec 2019 - Apr 2020	Poker, Vibratory, Hand Held or Dump Truck with Grab Generator Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering	CNP173 CNP069 CNP103 BS D7-114	102 105 95 101	70 100 70	-2 -2 0 -2	100 103 95 99	1 1 2 1	100 103 98 99	55 55 55 55	-43 -43 -43 -43	3 3 3 3	-5 -5 -10 -5	55 59 48 55	62
	Construct Middle Dwall and Traffic Deck - Temporary Traffic Deck	May-20	Plant Excavator/Loader, Wheeled/Tracked Generator Lorry Excavator/Loader, Wheeled/Tracked	CNP162 EPD-09560 CNP103 CNP142 EPD-09560	99 95 105 99	90 60 70 90 70	0 -2 -2 0 -2	97 93 105 97	1 1 1 1 1	97 93 105 97	55 55 55 55 55	-43 -43 -43 -43	3 3 3 3 3	-10 -5 -10 -5 -5	55 52 44 60 53	62
	Out to Double of Total		Crane Mobile Concrete Lorry Mixer Concrete pump Dump Truck with Grab Generator Lorry	BS D7-114 CNP044 CNP047 CNP069 CNP103 CNP142	101 109 109 105 95 105	70 60 80 70 100 60	-2 -2 -1 -2 0 -2	99 107 108 103 95 103	1 1 1 1 2	99 107 108 103 98 103	55 22 22 22 22 22 22	-43 -35 -35 -35 -35 -35	3 3 3 3 3	-5 -5 -10 -5 -10	55 70 66 67 56 66	74
	Construct Dwall and Traffic Deck - Piling for King Post	Jul-20	or Generator Lorry Crane Mobile Bored Piling Crane mounted auger Excavator/Loader, Wheeled/Tracked	CNP103 CNP142 BS D7-114 BS D4-37 EPD-09560	95 105 101 111 99	100 60 70 70 70	0 -2 -2 -2 -2	95 103 99 109 97	2 1 1 2	98 103 99 112 97	22 22 22 22 22 22	-35 -35 -35 -35 -35	3 3 3 3 3	-10 -5 -5 -10 -5	56 66 63 71 61	73
16b			Bar Bender and Cutter Concrete Lorry Mixer Concrete pump Generator Lorry	CNP021 CNP044 CNP047 CNP103 CNP142	90 109 109 95 105	70 60 80 100 70	-2 -2 -1 0	88 107 108 95 103	1 1 1 2	88 107 108 98 103	22 22 22 22 22 22	-35 -35 -35 -35 -35	3 3 3 3	-5 -10 -10 -5	57 70 66 56 67	73
	Construct Middle Dwall and Traffic Deck - Diaphragm Walls	Feb 2021 - May 2021	Poker, Vibratory, Hand Held or Dump Truck with Grab Generator Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering	CNP173 CNP069 CNP103 BS D7-114 CNP162	102 105 95 101 105	70 100 70 90	-2 -2 0 -2 0	100 103 95 99 105	1 2 1	100 103 98 99 105	22 22 22 22 22	-35 -35 -35 -35 -35	3 3 3 3 3 3	-5 -5 -10 -5 -10	63 67 56 63 63	70
	Construct Middle Dwall and Traffic Deck - Temporary Traffic Deck	Jul-22	Plant Excavator/Loader, Wheeled/Tracked Generator Lorry Excavator/Loader, Wheeled/Tracked Crane Mobile	EPD-09560 CNP103 CNP142 EPD-09560 BS D7-114	99 95 105 99 101	60 70 90 70 70	-2 -2 0 -2 -2	97 93 105 97 99	1 1 1 1	97 93 105 97 99	22 22 22 22 22 22	-35 -35 -35 -35 -35	3 3 3 3 3	-5 -10 -5 -5 -5	60 52 68 61 63	70
S18	Demolish Multi-storey Carpark Buildking (partially)	IVIAI ZOZI	Breaker, Excavator Mounted (Hydraulic) Dump Truck with Grab Concrete crusher, excavator mounted Forklift Concrete Core	BS D8-13 CNP069 CNP055 XRL - HK Section EIA CNP042	110 105 103 104 117	80 70 80 20 20	-1 -2 -1 -7	109 103 102 97 110	1 2 2 2	109 106 105 100	135 135 135 135 135	-51 -51 -51 -51	3 3 3 3	-5 -5 -5 -5	56 54 52 47 60	65
S25	Construction Middle Dwall and Traffic Deck (cross road sections) - Diaphragm Walls		Saw, concrete Bar Bender and Cutter Concrete Lorry Mixer Concrete Lump Dump Truck with Grab Generator Lorry Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering Plant Plant Plant Plaker, Vibratory, Hand Held	CNP203 CNP021 CNP044 CNP047 CNP069 CNP103 CNP142 BS D7-114 CNP162	115 90 109 109 105 95 105 101 105	25 70 60 80 70 100 70 70 90	-6 -2 -2 -1 -2 0 -2 -2 -2	109 88 107 108 103 95 103 99 105	2 1 1 1 1 1 1 1 1	112 88 107 108 103 95 103 99 105	135 32 32 32 32 32 32 32 32 32 32 32	-51 -38 -38 -38 -38 -38 -38 -38 -38 -38	3 3 3 3 3 3 3 3 3	-5 0 -5 -10 -5 -10 -5 -5 -10	59 53 67 63 63 50 63 59 59	72
	Construction Middle Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck	Jul-22	Excavator/Loader, Wheeled/Tracked Generator Lorry Excavator/Loader, Wheeled/Tracked Crane Mobile	EPD-09560 CNP103 CNP142 EPD-09560 BS D7-114	99 95 105 99 101	60 70 90 70 70	-2 -2 0 -2 -2 -2	97 93 105 97 99	1 1 1 1	97 93 105 97 99	32 32 32 32 32 32	-38 -38 -38 -38 -38	3 3 3 3	-5 -10 -5 -5 -5	57 48 64 57 59	66
S26	Construction Middle Dwall and Traffic Deck (cross road sections) - Diaphragm Walls	May-21	Bar Bender and Cutter Concrete Lorry Mixer Concrete pump Dump Truck with Grab Generator Lorry Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering Plant Ploker, Vibratory, Hand Held	CNP021 CNP044 CNP047 CNP069 CNP103 CNP142 BS D7-114 CNP162 CNP173	90 109 109 105 95 105 101 105	70 60 80 70 100 70 70 90	-2 -2 -1 -2 0 -2 -2 -2 0	88 107 108 103 95 103 99 105	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	88 107 108 103 95 103 99 105	45 45 45 45 45 45 45 45 45	-41 -41 -41 -41 -41 -41 -41	3 3 3 3 3 3 3 3 3	0 -5 -10 -5 -10 -5 -5 -10	50 64 60 60 47 60 56 56	69
	Construction Middle Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck	Jul-22	Excavator/Loader, Wheeled/Tracked Generator Lorry Excavator/Loader, Wheeled/Tracked Crane Mobile Concrete Lorry Mixer	EPD-09560 CNP103 CNP142 EPD-09560 BS D7-114 CNP044	99 95 105 99 101 109	60 70 90 70 70 60	-2 -2 0 -2 -2 -2	97 93 105 97 99 107	1 1 1 1 1 2	97 93 105 97 99 110	45 45 45 45 45 31	-41 -41 -41 -41 -41 -38	3 3 3 3 3 3	-5 -10 -5 -5 -5 -5	54 45 61 54 56 70	63
	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Reclamation Street to Ferry Street) - Foundation and pier	Jun 2020 - Dec 2020	Dump Truck with Grab Generator Excavator/Loader, Wheeled/Tracked Crane Mobile Bar Bender and Cutter Concrete pump	CNP069 CNP103 EPD-09560 BS D7-114 CNP021 CNP047	105 95 99 105 90 109	60 100 50 60 70 70	-2 0 -3 -2 -2 -2	103 95 96 103 88 107	2 3 2 2 1 1	106 100 99 106 88 107	31 31 31 31 31 31	-38 -38 -38 -38 -38 -38 -38	3 3 3 3 3	-5 -10 -5 -5 -0 -10	66 55 59 66 54 63	74
S27a	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Reclamation Street to Ferry Street) - Bridge Deck Construct Proposed GRF Flyover	Sep 2022 - Nov 2022	Bored Piling Crane mounted auger Poker, Vibratory, Hand Held Crane Mobile Generator Bar Bender and Cutter Concrete pump	BS D4-37 CNP173 BS D7-114 CNP103 CNP021 CNP047	111 102 101 95 90 109	80 50 60 100 70 70	-1 -3 -2 0 -2 -2	110 99 99 95 88 107	3 2 3 1	113 104 102 100 88 107	31 31 31 31 31 31	-38 -38 -38 -38 -38	3 3 3 3 3 3	-10 -5 -5 -10 0 -10	68 64 62 55 54 63	68
	(two lanes) on Northern Side and the Temporary Deck (From Reclamation Street to Ferry Street) - Surfacing, MJ, noise barrieres	Oct 2023 - Mar 2024	Asphalt Paver Road Roller Crane Mobile Concrete Lorry Mixer	EPD-01126 EPD-01183 BS D7-114 CNP044	97 101 109	60 60 60	-3 -2 -2 -2	95 99 107	1 1 2 2	101 95 102 110	31 31 31 100	-38 -38 -38 -48	3 3 3 3	-5 -5 -5	61 55 62 60	65
	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Temple Street to Reclamation Street) - Foundation and pier	Oct 2020 - Apr 2021	Dump Truck with Grab Generator Excavator/Loader, Wheeled/Tracked Crane Mobile Bar Bender and Cutter Concrete pump	CNP069 CNP103 EPD-09560 BS D7-114 CNP021 CNP047	105 95 99 101 90 109	60 100 50 60 70 70	-2 0 -3 -2 -2 -2	103 95 96 99 88 107	2 3 2 2 1	106 100 99 102 88 107	100 100 100 100 100 100	-48 -48 -48 -48 -48	3 3 3 3 3 3	-5 -10 -5 -5 0 -10	56 45 49 52 43 52	64
S27b	Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Temple Street to Reclamation Street)) - Bridge Deck Constitutor Inglysed Christ Tryover	Apr 2022 - Jun 2022	Bored Piling Crane mounted auger Poker, Vibratory, Hand Held Crane Mobile Generator Bar Bender and Cutter Concrete pump	BS D4-37 CNP173 BS D7-114 CNP103 CNP021 CNP047	102 101 95 90 109	80 50 60 100 70 70	-1 -3 -2 0 -2 -2	110 99 99 95 88 107	2 3 2 3 1	113 104 102 100 88 107	100 100 100 100 100 100	-48 -48 -48 -48 -48	3 3 3 3 3 3	-10 -5 -5 -10 0 -10	58 54 52 45 43 52	58
	(two lanes) on Northern Side and the Temporary Deck (From Temple Street to Reclamation Street) - Surfacing, MJ, noise	Oct 2023 - Mar 2024	Asphalt Paver Road Roller Crane Mobile	EPD-01126 EPD-01183 BS D7-114	97 101	50 60 60	-3 -2 -2	95 99	1 1 2	101 95 102	100 100 100	-48 -48 -48	3 3	-5 -5 -5	51 45 52	55

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Build King - SKEC Joint Venture Construction Noise Assessment Building

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		1.10040	Asphalt Paver Concrete Lorry Mixer Dump Truck with Grab Generator	EPD-01126 CNP044 CNP069 CNP103	104 109 105 95	80 60 70 100	-1 -2 -2 0	103 107 103 95	1 2 2 3	103 110 106 100	160 160 160 160	-52 -52 -52 -52	3 3 3 3	-5 -5 -5 -10	49 56 52 41	
S28	Diversion of Ferry Street Junction		Poker, Vibratory, Hand Held Road Roller Excavator/Loader, Wheeled/Tracked Crane Mobile Bar Bender and Cutter	CNP173 EPD-01183 EPD-09560 BS D7-114 CNP021	90	70 70 70 70 70	-2 -2 -2 -2 -2	100 95 97 99 88	3 2 2 1	105 98 100 99 88	160 160 160 160	-52 -52 -52 -52 -52	3 3 3 3 3	-5 -5 -5 -5	51 44 46 45 39	60
	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post	Nov-19	Concrete pump Generator Lorry Crane Mobile Bored Piling Crane mounted auger	CNP047 CNP103 CNP142 BS D7-114 BS D4-37	109 95 105 101 111	80 100 60 70 70	-1 0 -2 -2 -2	108 95 103 99 109	1 1 1 1	108 95 103 99 109	160 140 140 140 140	-52 -51 -51 -51 -51	3 3 3 3 3	-10 -10 -5 -5 -10	49 37 50 47 52	55
	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post	Nov-19	Excavator/Loader, Wheeled/Tracked Concrete Lorry Mixer Concrete pump	EPD-09560 CNP044 CNP047	99 109 109	70 60 80	-2 -2 -1	97 107 108	1 1	97 107 108	140 140 140	-51 -51 -51	3 3	-5 -5 -10	45 54 50	55
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls	Dec 2019 - Mar 2020	Dump Truck with Grab Generator Lorry Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering	CNP069 CNP103 CNP142 BS D7-114 CNP162	105 95 105 101 105	70 100 70 70 90	-2 0 -2 -2	103 95 103 99 105	1 1 1 1	103 95 103 99 105	140 140 140 140 140	-51 -51 -51 -51 -51	3 3 3 3	-5 -10 -5 -5 -10	51 37 51 47 47	55
	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls	Apr-20	Plant Excavator/Loader, Wheeled/Tracked Bar Bender and Cutter Concrete Lorry Mixer Concrete pump	EPD-09560 CNP021 CNP044 CNP047	99 90 109	60 70 60 80	-2 -2 -2 -1	97 88 107 108	1 1 1 1	97 88 107 108	140 140 140 140	-51 -51 -51 -51	3 3 3 3	-5 0 -5 -10	44 41 54 50	56
	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck	May-20	Generator Lorry Excavator/Loader, Wheeled/Tracked Crane Mobile	CNP103 CNP142 EPD-09560 BS D7-114		70 90 70 70	-2 0 -2 -2	93 105 97 99	1 1 1 1	93 105 97 99	140 140 140 140	-51 -51 -51 -51	3 3 3 3	-10 -5 -5 -5	36 52 45 47	53
	Underpinning Works for YMT Police Station - Grouting	Mar 2019 - Jun 2019	Grout mixer Grout pump Generator Lorry Crane Mobile	CNP105 CNP106 CNP103 CNP142 BS D7-114	90 105 95 105 101	70 70 100 60 70	-2 -2 0 -2 -2	88 103 95 103 99	2 2 1 1	91 106 95 103 99	85 85 85 85 85	-47 -47 -47 -47	3 3 3 3	-5 -5 -10 -5 -5	43 58 41 54 51	58.0
	Underpinning Works for YMT Police Station - Sokcet H Piling	Dec-18	Drill rig, rotary type (diesel) Excavator/Loader, Wheeled/Tracked Grout mixer Grout pump	CNP 072 EPD-09560 CNP105 CNP106	99 90 105	70 70 40 40	-2 -2 -4 -4	108 97 86 101	1 1 1	108 97 86 101	85 85 85 85	-47 -47 -47 -47	3 3 3 3	-10 -5 -5 -5	55 49 37 52	59.8
	Underpinning Works for YMT Police Station - micro-piling	Aug 2019 - Feb 2020	Generator Lorry Drill rig, rotary type (diesel) Grout mixer Grout pump	CNP103 CNP142 CNP 072 CNP105 CNP106	95 105 110 90 105	100 60 70 40 40	-2 -2 -4 -4	95 103 108 86 101	1 1 1 1	95 103 108 86 101	85 85 85 85 85	-47 -47 -47 -47	3 3 3 3 3	-10 -5 -10 -5 -5	41 54 55 37 52	58.8
S30	Underpinning Works for YMT Police Station - excavation	Jan 2020 - Feb 2020	Dump Truck with Grab Generator Excavator/Loader, Wheeled/Tracked Generator Lorry	CNP069 CNP103 EPD-09560 CNP103 CNP142	105 95 99 95 105	80 100 80 100	-1 0 -1 0	95 98 95 103	1 1 1 1	95 98 95 103	85 85 85 85	-47 -47 -47 -47 -47	3 3 3 3	-5 -10 -5 -10 -5	55 41 49 41 54	56.6
	Underpinning Works for YMT Police Station - pipe piling Underpinning Works for YMT	Jul 2020 - Mar 2021 Apr 2021 -	Drill rig, rotary type (diesel) Grout mixer Grout pump Grout mixer	CNP 072 CNP105 CNP106 CNP105	110 90 105 90	60 70 40 40 70	-2 -2 -4 -4 -2	108 86 101 88	1 1 1 2	108 86 101 91	85 85 85 85 85	-47 -47 -47 -47	3 3 3 3	-10 -5 -5 -5	54 55 37 52 43	58.8 58.0
	Police Station - tam grouting Underpinning Works for YMT Police Station - Construct underpinning beam and slab	Jun 2021 Jul 2021 - Sep 2021	Grout pump Bar Bender and Cutter Concrete Lorry Mixer Concrete pump Generator Crane Mobile Saw, Circular Wood	CNP106 CNP021 CNP044 CNP047 CNP103 BS D7-114 BS D7-79	105 90 109 109 95 101 103	70 60 40 30 100 50	-2 -2 -4 -5 0 -3 -3	103 88 105 104 95 98 100	2 2 2 1 1 1 2	106 91 108 104 95 98 103	85 85 85 85 85 85 85	-47 -47 -47 -47 -47 -47	3 3 3 3 3 3	-5 0 -5 -10 -10 -5 -5	58 47 59 50 41 49 54	61.5
	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post	Apr-23	Generator Lorry Crane Mobile Bored Piling Crane mounted auger	CNP103 CNP142 BS D7-114 BS D4-37	95 105 101 111	100 60 70 70	0 -2 -2 -2	95 103 99 109	1 1 1 1 1	95 103 99 109	50 50 50 50	-42 -42 -42 -42	3 3 3 3	-10 -5 -5 -10	46 59 55 60	64
	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting	Apr-23	Excavator/Loader, Wheeled/Tracked Concrete Lorry Mixer Concrete pump Dump Truck with Grab Generator	CNP044 CNP047 CNP069 CNP103	99 109 109 105 95	70 60 80 70 100	-2 -2 -1 -2 0	97 107 108 103 95	1 1 1 1	97 107 108 103 95	50 50 50 55 55	-42 -42 -42 -43 -43	3 3 3 3	-5 -5 -10 -5 -10	53 63 59 59 45	64
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls	Feb 2023 - Mar 2023	Lorry Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering Plant Excavator/Loader, Wheeled/Tracked	CNP142 BS D7-114 CNP162 EPD-09560	105 101 105 99	70 70 90 60	-2 -2 0 -2	103 99 105 97	1 1 1	103 99 105 97	55 55 55 55	-43 -43 -43 -43	3 3 3	-5 -5 -10	59 55 55 55	64
	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls Construct Southern Dwall & Dwall	Apr 2023 - May 2023	Bar Bender and Cutter Concrete Lorry Mixer Concrete pump Generator	CNP021 CNP044 CNP047 CNP103 CNP142	90 109 109 95 105	70 60 80 70 90	-2 -2 -1 -2 0	88 107 108 93 105	1 1 1 1	88 107 108 93 105	55 55 55 55 55	-43 -43 -43 -43 -43	3 3 3 3	-5 -10 -10	49 62 58 44 60	64
	Crossing Ferry Street - Temporary Traffic Deck Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for	Jun-23 May-23	Lorry Excavator/Loader, Wheeled/Tracked Crane Mobile Generator Lorry	EPD-09560 BS D7-114 CNP103 CNP142 BS D7-114	99 101 95 105	70 70 100 60 70	-2 -2 -2 0 -2 -2	97 99 95 103	1 1 1 1 1	97 99 95 103	55 55 8 8	-43 -43 -26 -26	3 3 3 3	-5 -5 -5 -10 -5	53 55 62 75 71	62 80
	King Post Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting	Jun-23	Crane Mobile Bored Piling Crane mounted auger Excavator/Loader, Wheeled/Tracked Concrete Lorry Mixer	BS D4-37 EPD-09560 CNP044	101 111 99 109	70 70 70	-2 -2 -2	99 109 97 106	1 1	99 109 97 106	8 8	-26 -26 -26	3 3 3	-5 -10 -5	76 69 78	80
S33	for King post Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls	Jul 2023 - Sep 2023	Dump Truck with Grab Generator Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP069 CNP103 BS D7-114 CNP162	105 95 101 105	70 100 70 90	-2 0 -2 0	103 95 99 105	1 1 1 1	103 95 99 105	8 8 8	-26 -26 -26 -26	3 3 3 3	-5 -10 -5 -10	75 62 71 71	79
	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting Construct Southern Dwall & Dwall	Oct-23	Excavator/Loader, Wheeled/Tracked Bar Bender and Cutter Concrete Lorry Mixer Generator Lorry	EPD-09560 CNP021 CNP044 CNP103 CNP142	99 90 109 95 105	60 70 60 70 50	-2 -2 -2 -2 -3	97 88 107 93 102	1 1 1 1	97 88 107 93 102	8 8 8 8	-26 -26 -26 -26 -26	3 3 3 3	-5 0 -5 -10	69 65 79 60 74	79
	Crossing Ferry Street - Temporary Traffic Deck Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for	Jan-24 Jun-21	Excavator/Loader, Wheeled/Tracked Crane Mobile Generator Lorry	EPD-09560 BS D7-114 CNP103 CNP142	99 101 95 105	70 50 100 60 70	-2 -3 0 -2 -2	97 98 95 103	1 1 1 1	97 98 95 103	8 8 32 32 32	-26 -26 -38 -38	3 3 3 3	-5 -5 -10 -5	69 70 50 63 59	76 68
	King Post Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting	Jun-21	Crane Mobile Bored Piling Crane mounted auger Excavator/Loader, Wheeled/Tracked Concrete Lorry Mixer Concrete pump	BS D7-114 BS D4-37 EPD-09560 CNP044 CNP047	101 111 99 109 109	70 70 60 80	-2 -2 -2 -1	99 109 97 107 108	1 1 1	99 109 97 107 108	32 32 32 32	-38 -38 -38 -38 -38	3 3 3 3	-5 -10 -5 -5 -10	64 57 67 63	69
S34	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls	Jul 2021 - Oct 2021	Dump Truck with Grab Generator Lorry Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP069 CNP103 CNP142 BS D7-114 CNP162	105 95 105 101 105	70 100 70 70 90	-2 0 -2 -2 0	103 95 103 99 105	1 1 1 1	103 95 103 99 105	32 32 32 32 32	-38 -38 -38 -38 -38	3 3 3 3	-5 -10 -5 -5 -10	63 50 63 59 59	68
	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls	Nov-21	Excavator/Loader, Wheeled/Tracked Bar Bender and Cutter Concrete Lorry Mixer Concrete pump	EPD-09560 CNP021 CNP044 CNP047	99 90 109 109	60 70 60 80 70	-2 -2 -2 -1 -1	97 88 107 108	1 1 1 1	97 88 107 108 93	32 32 32 32 32 32	-38 -38 -38 -38 -38	3 3 3 3	-5 0 -5 -10	57 53 67 63 48	68
	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck	Dec-21	Generator Lorry Excavator/Loader, Wheeled/Tracked Grane Mobile Breaker, Excavator Mounted (Hydraulic)	CNP103 CNP142 EPD-09560 BS D7-114 BS D8-13	110	90 70 70 80	-2 -2 -1	93 105 97 99 109	1 1 1	105 97 99 109	32 32 32 135	-38 -38 -38 -51	3 3 3 3	-5 -5 -5 -5	64 57 59 56	66
S35	Demolish Multi-storey Carpark Buildking (remaining part)	Mar 2023 - May 2023	Dump Truck with Grab Concrete crusher, excavator mounted Forklift Concrete Core	CNP069 CNP055 XRL - HK Section EIA CNP042	105 103 104 117	70 80 20 20	-2 -1 -7	103 102 97 110	2 2 2	106 105 100 110	135 135 135 135	-51 -51 -51 -51	3 3 3	-5 -5 -5	54 52 47 57	63
			Saw, concrete Excavator/Loader, Wheeled/Tracked	CNP203 EPD-09560	115	25 70	-6 -2	109 97	1 2	109 100	135 135	-51 -51	3	-5 -5	56 48	

Build King - SKEC Joint Venture Construction Noise Assessment

May 2020 - Jun 2020

Jul-20

Aug-20

Generator
Lorry
Crane Mobile
Piling, Diaphragm Wall, Bentonite Filtering
Plant
Excavator/Loader, Wheeled/Tracked
Bar Bender and Cutter
Concrete Lorry Mixer
Concrete pump
Generator
Lorry

Lorry
Excavator/Loader, Wheeled/Tracked
Crane Mobile

CNP162

EPD-09560 99 CNP021 90 CNP021 90 CNP044 109 CNP047 109 CNP103 95 CNP142 105 EPD-09560 99 BS D7-114 101

105

90

105

108

55

-43

Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls

Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls

Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck

S36b Den Con (the Stream Stream Stream Con (the Stream Stream Stream Stream Con (the Stream Con (the Stream Con (the Stream Con (the Stream Con (the Stream Con (the Stream Con (the Stream Con (the Stream Con (the Stream Con (the Stream Con (the Stream MJ,	Instruct Proposed GRF Flyover e remain Part from Reclamation elet to Ferry Street) - Foundation of pier en main Part from Reclamation elet to Ferry Street) - Bridge ck enstruct Proposed GRF Flyover er emain Part from Reclamation eet to Ferry Street) - Stridge ck	May 2023 - Jul 2023 May 2023 - Jul 2023 Sep 2021 - Dec 2021 Aug 2023 - Oct 2023	Breaker, Excavator Mounted (Hydraulic) Dump Truck with Grab Concrete crusher, excavator mounted Crane Mobile Saw, Wire Breaker, Excavator Mounted (Hydraulic) Dump Truck with Grab Concrete crusher, excavator mounted Crane Mobile Saw, Wire Dump Truck with Grab Generator Excavator/Loader, Wheeled/Tracked Crane Mobile Bar Bender and Cutter Concrete pump Bar Bender and Cutter Concrete pump Bored Piling Crane mounted auger	BS D8-13 CNP069 CNP055 BS D7-114 CNP205 BS D8-13 CNP069 CNP055 BS D7-114 CNP205 CNP044 CNP069 CNP103 EPD-09560 BS D7-114	110 105 103 101 101 110 105 103 101 101 109	60 70 70 70 60 60 70 70	-2 -2 -2 -2 -2 -2	108 103 101 99	1 1	108 103 101	32 32	-38 -38	3	-5 -5	68 63	+
S37a Con (the Stream) Stream and Con (the Stream) Stream Stream Con (the Stream) Con (the Stream) Con (the Stream)	Instruct Proposed GRF Flyover e remain Part from Reclamation elet to Ferry Street) - Foundation of pier en main Part from Reclamation elet to Ferry Street) - Bridge ck enstruct Proposed GRF Flyover er emain Part from Reclamation eet to Ferry Street) - Stridge ck	- Jul 2023 Sep 2021 - Dec 2021 Aug 2023 -	Breaker, Excavator Mounted (Hydraulic) Dump Truck with Grab Concrete crusher, excavator mounted Crane Mobile Saw, Wire Concrete Lorry Mixer Dump Truck with Grab Generator Excavator/Loader, Wheeled/Tracked Crane Mobile Bar Bender and Gutter Concrete Lory Dump Crane Mobile Crane Mobile Concrete pump	BS D8-13 CNP069 CNP055 BS D7-114 CNP205 CNP044 CNP069 CNP103 EPD-09560 BS D7-114	110 105 103 101 101 109 105	60 70 70 70	-2	00	1	99	32 32	-38 -38	3	-5 -5	61 59	70
S37a Con (the Stre Dec Con (the Stre MJ,	e remain Part from Reclamation eet to Ferry Street) - Foundation I pier et a remain Part from Reclamation eet to Ferry Street) - Bridge ck et Proposed GRF Flyover e remain Part from Reclamation eet to Ferry Street) - Surfacing,	Sep 2021 - Dec 2021 Aug 2023 -	Saw, Wire Concrete Lorry Mixer Dump Truck with Grab Generator Excavator/Loader, Wheeled/Tracked Crane Mobile Bar Bender and Cutter Concrete pump	CNP205 CNP044 CNP069 CNP103 EPD-09560 BS D7-114	101 109 105		-2 -2	99 108 103 101	1 1	99 108 103 101	32 50 50 50	-38 -42 -42 -42	3 3 3 3	-5 -5 -5 -5	59 64 59 57	67
S37a Con (the Stre Dec Con (the Stre MJ,	e remain Part from Reclamation eet to Ferry Street) - Foundation I pier et a remain Part from Reclamation eet to Ferry Street) - Bridge ck et Proposed GRF Flyover e remain Part from Reclamation eet to Ferry Street) - Surfacing,	Dec 2021 Aug 2023 -	Generator Excavator/Loader, Wheeled/Tracked Crane Mobile Bar Bender and Cutter Concrete pump	CNP103 EPD-09560 BS D7-114		60 60	-2 -2 -2 -2	99 99 107 103	1 2 2	99 99 110 106	50 50 23 23	-42 -42 -35 -35	3 3 3	-5 -5 -5	55 55 73 69	+
(the Stre Dec Con (the Stre MJ,	e remain Part from Reclamation eet to Ferry Street) - Bridge ck nstruct Proposed GRF Flyover e remain Part from Reclamation eet to Ferry Street) - Surfacing,			CNP021 CNP047 BS D4-37	95 99 101 90 109 111	100 50 60 70 70 80	0 -3 -2 -2 -2 -1	95 96 99 88 107 110	3 2 2 1 1	100 99 102 88 107 113	23 23 23 23 23 23 23 23	-35 -35 -35 -35 -35 -35 -35	3 3 3 3 3	-10 -5 -5 0 -10	58 62 65 56 65 71	77
(the Stre MJ,	e remain Part from Reclamation eet to Ferry Street) - Surfacing,		Poker, Vibratory, Hand Held Crane Mobile Generator Bar Bender and Cutter Concrete pump	CNP173 BS D7-114 CNP103 CNP021 CNP047	102 101 95 90 109	50 60 100 70 70	-3 -2 0 -2 -2	99 99 95 88 107	3 2 3 1	104 102 100 88 107	23 23 23 23 23 23	-35 -35 -35 -35 -35	3 3 3 3	-5 -5 -10 0 -10	67 65 58 56 65	71
	, noise barrieres	Mar 2024 - Sep 2024	Asphalt Paver Road Roller Crane Mobile	EPD-01126 EPD-01183 BS D7-114	97 101	50 60 60	-3 -2 -2	95 99	1 1 2	101 95 102	23 23 23	-35 -35 -35	3 3	-5 -5 -5	64 58 65	68
Stre	nstruct Proposed GRF Flyover e remain Part from Reclamation eet to Ferry Street) - Foundation d pier	May 2021 - Oct 2021	Concrete Lorry Mixer Dump Truck with Grab Generator Excavator/Loader, Wheeled/Tracked Crane Mobile Bar Bender and Cutter Concrete pump	CNP044 CNP069 CNP103 EPD-09560 BS D7-114 CNP021 CNP047	109 105 95 99 101 90 109	60 60 100 50 60 70	-2 -2 0 -3 -2 -2	107 103 95 96 99 88 107	2 2 3 2 2 1	110 106 100 99 102 88 107	90 90 90 90 90 90 90	-47 -47 -47 -47 -47 -47	3 3 3 3 3 3	-5 -5 -10 -5 -5 0 -10	61 57 46 50 53 44	65
(the	eet to Ferry Street) - Bridge	Aug 2021 - Oct 2021	Bored Piling Crane mounted auger Poker, Vibratory, Hand Held Crane Mobile Generator Bar Bender and Cutter Concrete pump	BS D4-37 CNP173 BS D7-114 CNP103 CNP021 CNP047	111 102 101 95 90 109	80 50 60 100 70	-1 -3 -2 0 -2 -2	110 99 99 95 88 107	2 3 2 3 1	113 104 102 100 88 107	90 90 90 90 90 90	-47 -47 -47 -47 -47 -47	3 3 3 3 3	-10 -5 -5 -10 0	53 59 55 53 46 44 53	59
(the Stre		Mar 2024 - Sep 2024	Asphalt Paver Road Roller Crane Mobile	EPD-01126 EPD-01183 BS D7-114	104 97 101	50 60 60	-3 -2 -2	101 95 99	1 1 2	101 95 102	90 90 90	-47 -47 -47	3 3	-5 -5 -5	52 46 53	56
Traf	nstruct Southern Dwall and offic Deck (cross road sections) - ophragm Walls	Mar 2021 - Apr 2021	Bar Bender and Cutter Concrete Lorry Mixer Concrete pump Dump Truck with Grab Generator Lorry Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP021 CNP044 CNP047 CNP069 CNP103 CNP142 BS D7-114 CNP162	90 109 109 105 95 105 101 105	70 60 80 70 100 70 70 90	-2 -2 -1 -2 0 -2 -2 -2	88 107 108 103 95 103 99	1 1 1 1 1 1 1 1	88 107 108 103 95 103 99	120 120 120 120 120 120 120 120	-50 -50 -50 -50 -50 -50 -50 -50	3 3 3 3 3 3 3 3 3	0 -5 -10 -5 -10 -5 -5 -10	42 55 51 52 38 52 48 48	60
Traf	nstruct Southern Dwall and offic Deck (cross road sections) - mporary Traffic Deck	Mar-23	Poker, Vibratory, Hand Held Excavator/Loader, Wheeled/Tracked Generator Lorry Excavator/Loader, Wheeled/Tracked Crane Mobile	CNP173 EPD-09560 CNP103 CNP142 EPD-09560 BS D7-114	102 99 95 105 99	60 60 70 90 70 70	-2 -2 -2 0 -2 -2	97 93 105 97 99	1 1 1 1 1 1	97 93 105 97 99	120 120 120 120 120 120	-50 -50 -50 -50 -50 -50	3 3 3 3 3	-5 -5 -10 -5 -5	48 45 37 53 46 48	55
Traf	nstruct Southern Dwall and ffic Deck (cross road sections) - phragm Walls	Jan 2023 - Feb 2023	Bar Bender and Cutter Concrete Lorry Mixer Concrete pump Dump Truck with Grab Generator Lorry Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering Plant Poker, Vibratory, Hand Held Excavator/Loader, Wheeled/Tracked	CNP021 CNP044 CNP047 CNP069 CNP103 CNP142 BS D7-114 CNP162 CNP173 EPD-09560	90 109 109 105 95 105 101 105 102 99	70 60 80 70 100 70 70 90 60	-2 -2 -1 -2 0 -2 -2 -2 0	88 107 108 103 95 103 99 105 100 97	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	88 107 108 103 95 103 99 105 100 97	29 29 29 29 29 29 29 29 29 29	-37 -37 -37 -37 -37 -37 -37 -37 -37 -37	3 3 3 3 3 3 3 3 3	0 -5 -10 -5 -10 -5 -5 -10 -5 -5	54 68 64 64 51 64 60 60	72
Traf	nstruct Southern Dwall and affic Deck (cross road sections) - mporary Traffic Deck	Mar-23	Generator Lorry Excavator/Loader, Wheeled/Tracked Crane Mobile	CNP103 CNP142 EPD-09560 BS D7-114	95 105 99 101	70 90 70 70	-2 0 -2 -2	93 105 97 99	1 1 1	93 105 97 99	29 29 29 29	-37 -37 -37 -37	3 3 3 3	-10 -5 -5 -5	49 65 58 60	67
Traf		Jan 2023 - Feb 2023	Bar Bender and Cutter Concrete Lory Mixer Concrete pump Dump Truck with Grab Generator Lorry Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering Plant Ploker, Vibratory, Hand Held	CNP021 CNP044 CNP047 CNP069 CNP103 CNP142 BS D7-114 CNP162 CNP173	90 109 109 105 95 105 101 105	70 60 80 70 100 70 70 90	-2 -2 -1 -2 0 -2 -2 0	88 107 108 103 95 103 99 105	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	88 107 108 103 95 103 99 105	15 15 15 15 15 15 15 15 15	-32 -32 -32 -32 -32 -32 -32 -32 -32	3 3 3 3 3 3 3 3 3	0 -5 -10 -5 -10 -5 -5 -10	60 73 70 70 56 70 66 66	78
Traf	nstruct Southern Dwall and affic Deck (cross road sections) - mporary Traffic Deck	Mar-23	Excavator/Loader, Wheeled/Tracked Generator Lorry Excavator/Loader, Wheeled/Tracked Crane Mobile	EPD-09560 CNP103 CNP142 EPD-09560 BS D7-114	99 95 105 99 101	60 70 90 70 70	-2 -2 0 -2 -2	97 93 105 97 99	1 1 1 1	97 93 105 97 99	15 15 15 15 15	-32 -32 -32 -32 -32	3 3 3 3 3	-5 -10 -5 -5 -5	63 55 71 64 66	73
		Aug 2020 - Dec 2020	Breaker, Excavator Mounted (Hydraulic) Dump Truck with Grab Concrete crusher, excavator mounted Crane Mobile Saw, Wire Generator	BS D8-13 CNP069 CNP055 BS D7-114 CNP205 CNP103	110 105 103 101 101 95	70 70 90 70 70 100	-2 -2 0 -2 -2 0	108 103 103 99 99 99	1 3 2 2 2 2	108 108 106 102 102 98	40 40 40 40 40 40	-40 -40 -40 -40 -40 -40	3 3 3 3 3 3	-5 -5 -5 -5 -5 -10	66 66 64 60 60 51	71
	cavation of Tunnel Tubes (under	Dec 2020 - Jan 2021, May 2023 - Jul 2023	Generator Excavator/Loader, Wheeled/Tracked Rock drill, crawler mounted (pneumatic) Ventilation Fan Water Pump, Submersible (Electric)	CNP103 EPD-09560 SIL EIA CNP241 CNP283	95 99 108 108 85	100 80 80 90 100	0 -1 -1 0 0	95 98 107 108 85	10 5 5 10 12	105 105 114 118 96	135 135 135 135 135	-51 -51 -51 -51 -51	3 3 3 3 3	-20 -20 -20 -15 -20	37 37 46 55 28	56
Cro	nstruct Southern Dwall & Dwall ossing Ferry Street - Piling for ig Post	Apr-20	Generator Lorry Crane Mobile Bored Piling Crane mounted auger Excavator/Loader, Wheeled/Tracked	CNP103 CNP142 BS D7-114 BS D4-37 EPD-09560	95 105 101 111 99	100 60 70 70 70	0 -2 -2 -2 -2	95 103 99 109 97	3 1 1 3	100 103 99 114 97	55 55 55 55 55	-43 -43 -43 -43 -43	3 3 3 3	-10 -5 -5 -10 -5	50 58 55 64 53	66
Cro	nstruct Southern Dwall & Dwall ossing Ferry Street - Grouting on the Struct Southern Dwall & Traffic	Apr-20	Concrete Lorry Mixer Concrete pump Dump Truck with Grab Generator	CNP044 CNP047 CNP069 CNP103	109 109 105 95	60 80 70	-2 -1 -2 0	107 108 103 95	1 1 1	110 108 103 101	55 55 55 55 55	-43 -43 -43 -43	3 3 3 3	-5 -5 -10 -5 -10	65 58 59 51	- 66

66

58

-10

Noise Criteria: 75dB(A)

Build King - SKEC Joint Venture ng Building

Mitigation Measures Scenario	
Construction Noise Assessment Period: 0700 to 1900 (except general holiday: Noise Sensitive Receiver: W-N8A Tak Cheon	

Worksite	Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on- time %	No. of plants	Total SWL	Distance from Notional Sources,	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level for each group, dB(A)
	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for	Jan-21	Generator Lorry Crane Mobile	CNP142 BS D7-114	105 101	60 70	-2 -2	103	1	103 99	30 30 30	-38 -38	3 3	-5 -5	63 60	71
	King Post Construct Southern Dwall & Dwall	1 04	Bored Piling Crane mounted auger Excavator/Loader, Wheeled/Tracked Concrete Lorry Mixer	BS D4-37 EPD-09560 CNP044	111 99 109	70 70 60	-2 -2 -2	109 97 107	3 1 2	97 110	30 30 30	-38 -38 -38	3 3 3	-10 -5 -5	70 58 70	74
	Crossing Ferry Street - Grouting	Jan-21	Concrete pump Dump Truck with Grab	CNP047 CNP069	109 105	80 70	-1 -2	108 103	1	108 103	30 30	-38 -38	3	-10 -5	63 64	71
S45	Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm	Feb 2021 -	Generator Lorry Crane Mobile	CNP103 CNP142 BS D7-114	95 105 101	70 70	-2 -2	95 103 99	1 1	101 103 99	30 30 30	-38 -38 -38	3 3	-10 -5 -5	56 64 60	69
0.0	Walls	Mar 2021	Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	2	108	30	-38	3	-10	63	
	Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm	Apr-21	Excavator/Loader, Wheeled/Tracked Bar Bender and Cutter Concrete Lorry Mixer	EPD-09560 CNP021 CNP044	99 90 109	60 70 60	-2 -2 -2	97 88 107	1 1 2	97 88 110	30 30 30	-38 -38 -38	3 3	-5 0 -5	57 54 70	71
	Walls		Concrete pump Generator	CNP047 CNP103	109 95	80 70	-1 -2	108 93	1	108 93	30 30	-38 -38	3	-10 -10	63 49	
	Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck	Dec-22	Lorry Excavator/Loader, Wheeled/Tracked Crane Mobile	CNP142 EPD-09560 BS D7-114	105 99 101	90 70 70	-2 -2	105 97 99	1 2	108 97 102	30 30 30	-38 -38 -38	3 3	-5 -5 -5	68 58 63	70
	Excavation of Tunnel Tubes (under	Mar 2023 -	Generator Excavator/Loader, Wheeled/Tracked	CNP103 EPD-09560	95 99	100 80	0 -1	95 98	4 2	101 101	155 155	-52 -52	3	-20 -20	32 32	
S46a	cover of traffic deck)	Jun 2023	Rock drill, crawler mounted (pneumatic) Ventilation Fan Water Pump, Submersible (Electric)	SIL EIA CNP241 CNP283	108 108 85	80 90 100	-1 0 0	107 108 85	2 4 4	110 114 91	155 155 155	-52 -52 -52	3 3 3	-20 -15 -20	41 50 22	50
	Excavation of Tunnel Tubes (under	Nov 2023 -	Generator Excavator/Loader, Wheeled/Tracked	CNP103 EPD-09560	95 99	100 80	0 -1	95 98	3 2	100 101	60 60	-44 -44	3	-20 -20	39 40	
S46b	cover of traffic deck)	Feb 2024	Rock drill, crawler mounted (pneumatic) Ventilation Fan	SIL EIA CNP241	108 108	90 100	-1 0	107 108	3 4	110 112	60 60	-44 -44 -44	3	-20 -15	49 57	58
	Excavation of Tunnel Tubes (under	lon 2024	Water Pump, Submersible (Electric) Generator Excavator/Loader, Wheeled/Tracked	CNP283 CNP103 EPD-09560	85 95 99	100 100 80	0 0 -1	85 95 98	3 2	91 100 101	60 13 13	-30 -30	3	-20 -20 -20	30 52 54	
S46c	cover of traffic deck)	Apr 2024 -	Rock drill, crawler mounted (pneumatic) Ventilation Fan	SIL EIA CNP241	108 108	80 90	-1 0	107 108	1 3 4	107 112	13 13	-30 -30	3	-20 -15	60 70	71
			Water Pump, Submersible (Electric) Generator Bar Bender and Cutter	CNP283 CNP103 CNP021	95 90	100 100 70	0 0 -2	85 95 88	1 1	91 95 88	13 120 120	-30 -50 -50	3 3	-20 -20 -20	28 22	+
	Underpinning of Existing Bridges	Jun 2020 -	Concrete Lorry Mixer Concrete pump	CNP044 CNP047	109 109	60 80	-2 -1	107 108	1	107 108	120 120	-50 -50	3	-20 -20	40 41	48
	(under cover of traffic deck)	Dec 2020	Crane Mobile Excavator/Loader, Wheeled/Tracked Ventilation Fan	BS D7-114 EPD-09560 CNP241	101 99 108	70 60 90	-2 -2 0	99 97 108	1 1	99 97 108	120 120 120	-50 -50 -50	3 3	-20 -20 -15	33 30 46	
S47a			Water Pump, Submersible (Electric) Bar Bender and Cutter	CNP283 CNP021	85 90	100 60	0 -2	85 88	1	85 88	120 120	-50 -50	3	-20 -20	18 21	
			Concrete Lorry Mixer Concrete pump Generator	CNP044 CNP047 CNP103	109 109 95	60 80 100	-2 -1 0	107 108 95	1 1 2	107 108 98	120 120 120	-50 -50 -50	3	-20 -20 -20	40 41 31	ļ
	Construction of the Cut and Cover Tunnel (under cover of traffic deck)	Jan 2024 - Oct 2024	Crane Mobile Poker, Vibratory, Hand Held	BS D7-114 CNP173	101	70 70	-2 -2	99	1	99	120 120	-50 -50	3	-20 -20	33	53
			Excavator/Loader, Wheeled/Tracked Ventilation Fan	EPD-09560 CNP241	99 108	70 90	-2 0 0	97 108	1 4 4	97 114	120 120	-50 -50	3	-20 -15	31 52	Ī
			Water Pump, Submersible (Electric) Generator Bar Bender and Cutter	CNP283 CNP103 CNP021	95 90	100 100 70	0 -2	85 95 88	1 1	91 95 88	120 45 45	-50 -41 -41	3 3	-20 -20 -20	24 37 30	
	Underpinning of Existing Bridges	Oct 2020 -	Concrete Lorry Mixer Concrete pump	CNP044 CNP047	109 109	60 80	-2 -1	107 108	1	107 108	45 45	-41 -41	3	-20 -20	49 50	57
	(under cover of traffic deck)	Apr 2021	Crane Mobile Excavator/Loader, Wheeled/Tracked Ventilation Fan	BS D7-114 EPD-09560 CNP241	101 99 108	70 60 90	-2 -2 0	99 97 108	1 1	99 97 108	45 45 45	-41 -41 -41	3 3	-20 -20 -15	41 39 54	+
S47b			Water Pump, Submersible (Electric) Bar Bender and Cutter	CNP283 CNP021	85 90	100 60	0 -2	85 88	1	85 88	45 45	-41 -41	3	-20 -20	27 30	
			Concrete Lorry Mixer Concrete pump Generator	CNP044 CNP047 CNP103	109 109 95	60 80 100	-2 -1 0	107 108 95	1 2	107 108 98	45 45 45	-41 -41 -41	3 3	-20 -20 -20	49 50 40	
	Construction of the Cut and Cover Tunnel (under cover of traffic deck)	Jan 2024 - Oct 2024	Crane Mobile Poker, Vibratory, Hand Held	BS D7-114 CNP173	101 102	70 70	-2 -2	99 100	1	99 100	45 45	-41 -41	3	-20 -20	41 42	61
			Excavator/Loader, Wheeled/Tracked Ventilation Fan Water Pump, Submersible (Electric)	EPD-09560 CNP241 CNP283	99 108 85	70 90 100	-2 0 0	97 108 85	1 4 4	97 114 91	45 45 45	-41 -41 -41	3 3	-20 -15 -20	39 60 33	
			Generator Bar Bender and Cutter	CNP103 CNP021	95 90	100 70	0 -2	95 88	1	95 88	14 14	-31 -31	3	-20 -20	47 41	
	Underpinning of Existing Bridges (under cover of traffic deck)	May 2020 - Sep 2020	Concrete Lorry Mixer Concrete pump	CNP044 CNP047	109 109 101	60 80	-2 -1	107 108	1	107 108	14	-31 -31	3	-20 -20	59 60	67
	(under cover of traffic deck)	- Sep 2020	Crane Mobile Excavator/Loader, Wheeled/Tracked Ventilation Fan	BS D7-114 EPD-09560 CNP241	99	70 60 90	-2 -2 0	99 97 108	1 1	99 97 108	14 14 14	-31 -31 -31	3	-20 -20 -15	52 49 65	†
S47c			Water Pump, Submersible (Electric) Bar Bender and Cutter	CNP283 CNP021	85 90	100 60	-2	85 88	1	85 88	14	-31 -31	3	-20 -20	37 40	
	Construction of the Cut and Course	lan 2024	Concrete Lorry Mixer Concrete pump Generator	CNP044 CNP047 CNP103	109 109 95	80 100	-2 -1 0	107 108 95	1 2	107 108 98	14 14 14	-31 -31 -31	3 3 3	-20 -20 -20	59 60 50	†
	Construction of the Cut and Cover Tunnel (under cover of traffic deck)		Crane Mobile Poker, Vibratory, Hand Held	BS D7-114 CNP173	101 102	70 70	-2 -2	99 100	1	99 100	14 14	-31 -31	3	-20 -20	52 53	71
			Excavator/Loader, Wheeled/Tracked Ventilation Fan Water Pump, Submersible (Electric)	CNP241 CNP283	99 108 85	70 90 100	-2 0 0	97 108 85	4	97 114 91	14 14 14	-31 -31 -31	3 3	-20 -15 -20	50 71 43	†
			Generator Bar Bender and Cutter	CNP103 CNP021	95 90	100 70	0 -2	95 88	1	95 88	125 125	-50 -50	3	-20 -20	28 22	
S49	Underpinning of Existing Bridges (under cover of traffic deck)	Feb 2021 - Nov 2021	Concrete Lorry Mixer Concrete pump Crane Mobile	CNP044 CNP047 BS D7-114	109 109 101	60 80 70	-2 -1 -2	107 108 99	1 1	107 108 99	125 125 125	-50 -50 -50	3 3	-20 -20 -20	40 41 33	48
			Excavator/Loader, Wheeled/Tracked Ventilation Fan	EPD-09560 CNP241	99 108	60 90	-2 0	97 108	1	97 108	125 125 125	-50 -50	3	-20 -15	30 46	
			Water Pump, Submersible (Electric) Concrete Lorry Mixer Concrete pump	CNP283 CNP044 CNP047	85 109 109	100 60 80	-2 -1	85 107 108	2	85 110 108	125 225 225	-50 -55 -55	3 3	-20 -5 -10	18 53 46	+
	Foundation (west side) for noise	Dec 2021 -	Generator Lorry	CNP103 CNP142	95 105	100 70	0 -2	95 103	3	100 106	225 225 225 225	-55 -55	3	-10 -5	38 49	50
S50a	enclosure on GRF Flyover (Ferry Street Section)	May 2022	Crane Mobile Bored Piling Crane mounted auger Excavator/Loader, Wheeled/Tracked	BS D7-114 BS D4-37 EPD-09560	101 111 99	60 80 70	-2 -1 -2	99 110 97	2 2	104 113 100	225	-55 -55 -55	3 3 3	-5 -10 -5	47 51 43	58
			Compactor, vibratory Dump Truck with Grab	CNP050 CNP069	105 105	70 70	-2 -2	103 103	3	108 103	225 225 225	-55 -55	3	-5 -5	51 46	
	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting	Mar 2023 - May 2023	Crane Mobile Generator Lorry	BS D7-114 CNP103 CNP142	101 95 105	70 100 70	-2 0 -2	99 95 103	1 1	99 95 103	225 225 225	-55 -55 -55	3 3 3	-5 -10 -5	42 33 46	48
	Oncor Section/ and desig ring		Concrete Lorry Mixer Concrete pump	CNP044 CNP047	109 109	60 80	-2 -1	107 108	2	110 108	205 205	-54 -54	3	-5 -10	54 47	
	Foundation (west side) for noise enclosure on GRF Flyover (Ferry	Jul 2021 -	Generator Lorry Crane Mobile	CNP103 CNP142 BS D7-114	95 105 101	70 60	-2 -2	95 103 99	2	100 106 104	205 205 205	-54 -54 -54	3	-10 -5 -5	39 50 47	59
S50b	Street Section)	Jul 2022	Bored Piling Crane mounted auger Excavator/Loader, Wheeled/Tracked	BS D4-37 EPD-09560	111 99	80 70	-1 -2	110 97	2	113 100	205 205	-54 -54	3	-10 -5	52 44	1 3
	Construct noise barriers and noise		Compactor, vibratory Dump Truck with Grab Crane Mobile	CNP050 CNP069 BS D7-114	105 105	70 70 70	-2 -2 -2	103 103	3 1	108 103 99	205 205	-54 -54 -54	3 3 3	-5 -5 -5	52 47 43	1
	enclosure on GRF Flyover (Ferry Street Section) and along Ting	Jun 2023 - Oct 2023	Generator Lorry	BS D7-114 CNP103 CNP142	95 105	70 100 70	-2 0 -2	99 95 103	1 1	95 103	205 205 205	-54 -54	3 3 3	-5 -10 -5	43 34 47	49
			Concrete Lorry Mixer Concrete pump	CNP044 CNP047	109 109	60 80	-2 -1	107 108	1	107 108	170 170	-53 -53	3	-5 -10	52 48	1
	Foundation (west side) for noise enclosure on GRF Flyover (Ferry	Mar 2023 -	Generator Lorry Crane Mobile	CNP103 CNP142 BS D7-114	95 105 101	100 70 60	-2 -2	95 103 99	3 1 2	100 103 102	170 170 170	-53 -53 -53	3 3 3	-10 -5 -5	40 49 47	59
S50c	Street Section)	May 2023	Bored Piling Crane mounted auger Excavator/Loader, Wheeled/Tracked	BS D4-37 EPD-09560	111 99	80 70	-1 -2	110 97	2	113 100	170 170	-53 -53	3	-10 -5	53 46	1 3
	Construct noise barriers and noise		Compactor, vibratory Dump Truck with Grab Crane Mobile	CNP050 CNP069 BS D7-114	105 105 101	70 70 70	-2 -2 -2	103 103 99	1 1	106 103 99	170 170 170	-53 -53 -53	3 3 3	-5 -5 -5	52 49 45	1
	enclosure on GRF Flyover (Ferry	Jun 2023 - Nov 2023	Generator	CNP103	95	100	-2	95	1	95	170	-53 -53	3	-5 -10	45 35	50

58

43

53

48 41

Build King - SKEC Joint Venture Construction Noise Assessment

Construction of the Cut and Cover Tunnel (under cover of traffic deck) Dec 2024

Apr, Jun, Aug & Sep 2024

Apr 2018 Jun 2018

Jul 2018 -Dec 2018

Concrete pump
Generator
Grane Mobile
Poker, Vibratory, Hand Held
Excavator/Loader, Wheeled/Tracked
Ventilation Fan
Water Pump, Submersible (Electric)
Compactor, vibratory
Generator
Excavator/Loader, Wheeled/Tracked
Poker, Vibratory, Hand Held
Excavator/Loader, Wheeled/Tracked
Bar Bender and Cutter
Concrete Lorry Miker

Generator
Crane Mobile
Saw, Circular Wood
Excavator/Loader, Wheeled/Tracked

Concrete Lorry Mixer Concrete pump

Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)

traffic deck)

Construction of Temporary

Maternal and Child Health Centre

Construction of Temporary Maternal and Child Health Centre Superstructure

S56b

Worksite	Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time,	Time Factor	Quiet Plant SWL with on- time %	No. of plants	Total SWL	Distance from Notional Sources,	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level for each group, dB(A)
			Asphalt Paver	EPD-01126	104	80	-1	103	1	103	m 185	-53	3	-5	48	
			Concrete Lorry Mixer	CNP044 CNP047	109	60 80	-2 -1	107 108	1	107 108	185 185	-53 -53	3	-5 -10	51 48	+
			Concrete pump Dump Truck with Grab	CNP047	105	70	-2	103	i	103	185	-53	3	-5	48	ŧ
S50d	Road works for re-align Ferry	Feb 2024 -	Generator	CNP103	103	100	0	103	1	103	185	-53	3	-10	43	57
3300	Street at-grade road	Apr 2024	Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	1	100	185	-53	3	-10	40	37
			Road Roller Bored Piling Crane mounted auger	EPD-01183 BS D4-37	97 111	80 80	-1 -1	96 110	1	96 110	185 185	-53 -53	3	-5 -10	41 50	+
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	185	-53	3	-5	42	t
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	185	-53	3	-5	44	
			Breaker, Excavator Mounted (Hydraulic)	BS D8-13	110	50 70	-3 -2	107	1	107	225	-55 -55	3	-5	50	
S51	Demolish the Existing Ferr Street	Dec-20	Dump Truck with Grab Concrete crusher, excavator mounted	CNP069 CNP055	105 103		-2	103 102	1	106	225		3	-5 -5	49 45	54
	Subway		Crane Mobile	BS D7-114	101	80 70	-2	99	i	102 99	225 225	-55 -55	3	-5	42	1
			Saw, Wire	CNP205	101	70 70	-2 -2	99	1	99 103	225 85	-55 -47	3	-5 -5	42 55	
			Dump Truck with Grab Generator	CNP069 CNP103	105 95	100	-2	103 95	1	95	85	-47	3	-5 -10	41	+
	Construct Northern Dwall & Traffic	Oct 2021 -	Lorry	CNP142	105	70	-2 -2	103	1	103	85	-47	3	-5	55 51	Ť
	Deck (cross road sections) -	Nov 2021	Crane Mobile	BS D7-114	101	70	-2	99	1	99	85	-47	3	-5	51	60
	Excavation for Diaphragm Walls		Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	85	-47	3	-10	51	
S52			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	85	-47	3	-5	48	Ť
332	Construct Northern Dwall & Traffic	Sep 2021 -	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	85	-47	3	0	45	
	Deck (cross road sections) -	Nov 2021	Concrete Lorry Mixer	CNP044 CNP047	109 109	60 80	-2	107 108	1	107 108	85 85	-47 -47	3	-5 -10	58 54	60
	Concreting for Diaphragm Walls		Concrete pump Generator	CNP103	95	70	-1 -2	93	1	93	85	-47	3	-10	40	
	Construct Northern Dwall & Traffic Deck (cross road sections) -	Dec 2021	Lorry	CNP142	105	90	0	105	i	105	85	-47	3	-5	56	58
	Temporary Traffic Deck	Dec 2021	Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	85	-47	3	-5	49	36
	Tomporary Trans Book		Crane Mobile Dump Truck with Grab	BS D7-114 CNP069	101 105	70 70	-2 -2	99 103	1	99 103	85 40	-47 -40	3	-5 -5	51 61	
			Generator	CNP103	95	100	0	95	i		40	-40	3	-10	48	ŧ
	Construct Northern Dwall & Traffic	Oct 2021 -	Lorry	CNP142	95 105	70	-2	95 103	1	95 103	40	-40	3	-5	61	
	Deck (cross road sections) - Excavation for Diaphragm Walls	Nov 2021	Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering	BS D7-114	101	70	-2	99	1	99	40	-40	3	-5	57	66
	Excavation for Diaphragm walls		Plant	CNP162	105	90	0	105	1	105	40	-40	3	-10	58	
S53			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	40	-40	3	-5	55	
333	Construct Northern Dwall & Traffic	Sep 2021 -	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	40	-40	3	0	51	
	Deck (cross road sections) - Concreting for Diaphragm Walls	Nov 2021	Concrete Lorry Mixer Concrete pump	CNP044 CNP047	109 109	60	-2 -1	107 108	1	107 108	40 40	-40 -40	3	-5 -10	65 61	66
	Construct Northern Dwall & Traffic		Generator	CNP103	95	80 70	-2	93	1	93	40	-40	3	-10	46	
	Deck (cross road sections) -	Dec 2021	Lorry	CNP142	105	90	0	105	1	105	40	-40	3	-5	63	64
	Temporary Traffic Deck	DOO LOL!	Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70 70	-2	97	1	97	40 40	-40 -40	3	-5	63 55 57	
	. ,		Crane Mobile Asphalt Paver	BS D7-114 EPD-01126	101 104	80	-2	99 103	+	99 103	50	-40	3	-5 -5	59	
			Concrete Lorry Mixer	CNP044	109	60	-2	107	i	107	50	-42	3	-5	63	Ť
	Reinstate the affected roads and	Nov 2023 -	Generator	CNP103	95	100	0	95	1	95	50	-42	3	-10	46	
	footpaths	Feb 2024	Poker, Vibratory, Hand Held Road Roller	CNP173 EPD-01183	102 97	60	-2 -2	100	2	103	50	-42 -42	3	-10	54	66
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70 70	-2	95 97	1	95 97	50 50	-42	3	-5 -5	51 53	ŧ
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	50	-42	3	-5	55	
S55a			Asphalt Paver	EPD-01126	104 109	80	-1	103 107	1	103 110	50 50	-42 -42	3	-5 -5	59	1
			Concrete Lorry Mixer Concrete pump	CNP044 CNP047	109	60 80	-2 -1	107	1	108	50	-42	3	-10	66 59	†
	Road works for Section between	Mar 2024 -	Generator	CNP103	95	100	0	95	2	98	50	-42	3	-10	49	68
	Ferry Street and Nathan Road	Nov 2024	Poker, Vibratory, Hand Held Boad Roller	CNP173 FPD-01183	102 97	70 80	-2 -1	100 96	2	103	50 50	-42 -42	3	-10 -5	54 52	- 00
			Excavator/Loader, Wheeled/Tracked	EPD-01163	99	70	-2	96	1	96 97	50	-42	3	-5 -5	53	†
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	50	-42	3	-5	55	
			Asphalt Paver	EPD-01126	104	80	-1	103	1	103	35	-39	3	-5	62	1
	Delegated the effects decode and	Nov 2023 -	Concrete Lorry Mixer Generator	CNP044 CNP103	109 95	60 100	-2 0	107 95	+	107 95	35 35	-39 -39	3	-5 -10	66 49	+
	Reinstate the affected roads and footpaths	Feb 2024	Poker, Vibratory, Hand Held	CNP173	102	60 70	-2	100	1	100	35	-39	3	-10	54 55	69
	ioopans	1 60 2024	Road Roller	EPD-01183	97	70	-2	95	1 1	95	35	-39	3	-5	55	1
			Excavator/Loader, Wheeled/Tracked Crane Mobile	EPD-09560 BS D7-114	99 101	70 70	-2 -2	97 99	+	97 99	35 35	-39 -39	3	-5 -5	57 59	+
S55b			Asphalt Paver	EPD-01126	104	80	-1	103	1	103	35	-39	3	-5	62	
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	35	-39	3	-5	66	I
	Road works for Section between	Mar 2024 -	Concrete pump Generator	CNP047 CNP103	109 95	80 100	-1 0	108 95	1	108 95	35 35	-39 -39	3	-10 -10	62 49	1
	Ferry Street and Nathan Road	Nov 2024	Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	1	100	35	-39	3	-10	55	70
	ŕ		Road Roller	EPD-01183	97	80	-1	96 97	1	96	35	-39	3	-5	55 57	I
			Excavator/Loader, Wheeled/Tracked Crane Mobile	EPD-09560 BS D7-114	99 101	70	-2	97 99	1	97	35	-39	3	-5		1
			Bar Bender and Cutter	CNP021	90	70 60	-2	88	i	99 88	35 75	-39 -46	3	-20	59 25	
			Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	75	-46	3	-20	47	İ
			Concrete pump	CNP047	109	80	-1	108	1	108	75 75	-46 -46	3	-20	46	+
	Construction of the Cut and Cover	Jul 2023 -	Generator Crane Mobile	CNP103 BS D7-114	95 101	100 70	-2	95 99	1	100 99	75 75	-46 -46	3	-20 -20	37 37	59
	Tunnel (under cover of traffic deck)	Aug 2024	Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	i	100	75	-46	3	-20	38	1
S56a			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	75 75	-46	3	-20	35 58	1
			Ventilation Fan Water Pump, Submersible (Electric)	CNP241 CNP283	108 85	90 100	0	108 85	6	115 93	75 75	-46 -46	3	-15 -20	58 30	+
	Backfilling on Top of Cut and		Compactor, vibratory	CNP050	105	70	-2	103	1	103	75	-46 -46	3	-20	41	
	Cover Tunnel (under cover of	Aug 2024 -	Generator	CNP103	95	100	0	95	2	98	75	-46	3	-20	36	44
	traffic deck)	Nov 2024	Excavator/Loader, Wheeled/Tracked	EPD-09560 EPD-01183	99 97	70 80	-2 -1	97 96	2	100 96	75 75	-46 -46	3	-20 -20	38 34	ł
	,		Road Roller Bar Bender and Cutter	CNP021	97	60	-1 -2	96 88	+	96 88	75 15	-46 -32	3	-20 -20	34	
			Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	15	-32	3	-20	61	İ
			Concrete pump	CNP047	109	70	-2	107	1	107	15	-32	3	-20	59	Į
	Construction of the Cut and Cover	Nov 2023 -	Generator Crane Mobile	CNP103 BS D7-114	95 101	100 70	0	95 99	3	100 99	15 15	-32 -32	3	-20 -20	51 51	72
	Tunnel (under cover of traffic deals)	Doc 2024		1 00 07-114												

CNP241 108
CNP283 85
CNP050 105
CNP103 95
EPD-09500 99
EPD-01183 97
CNP041 109
CNP041 109
CNP047 109
CNP047 109
CNP047 109
CNP048 85
CNP103 95
ES D7-114 101
CNP13 102
EPD-09560 99
EPD-01183 97
CNP103 95
EPD-09560 99
EPD-01183 97
CNP137 102
EPD-09560 99
EPD-09560 99
EPD-09560 99
EPD-09560 99
EPD-09560 99
CNP044 109
CNP047 109
CNP047 109
CNP047 109
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EPD-09560 99
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EPD-09560 99
EPD-09560 99

98 98

W-N8A																										
Worksite Activity Jan	Feb Mar	Apr May Jun	Jul Aug	Sep Oct	Nov Dec Jan	Feb Mar	Apr May	Jun Jul Aug Sep Oct	Nov Dec Jan	Feb Mar A	2020 Apr May Jun Jul	Aug Sep Oct	Nov Dec Jan	Feb Mar Apr	2021 May Jun Jul	Aug Sep Oct No	lov Dec Jan Feb Mar	Apr May Jun Ju	l Aug Sep Oct No	w Dec Jan Feb	Mar Apr May Jun .	al Aug Sep Oct Nov	Dec Jan Feb	Mar Apr May	Jun Jul Aug	Sep Oct Nov
S3 Construct Dwall and Traffic Deck - Piling for King Post	$\perp \perp \perp \mid$		52.5																				 		\rightarrow	
S3 Construct Dwall and Traffic Deck - Diaphragm Walls	+		52.2	52.2 52.2	52.2																			+		
S3 Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls	\longrightarrow				50.4 50.4 50.4																		 			
S3 Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls	\longrightarrow					50.5																	 			
S3 Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck	+		\vdash			48.4	+		++-	++		++-		++	+++	+++	++++	+++	+++		+++		+++-'	+++	+++	++-
S4 Construction of Methodone Clinic	+++	66.0 66.0 66.0	66.0 66.0	66.0 66.0	66.0 66.0 66.0																		 	+	-	
S5 Decant and demolish existing Jade Market	+-+												74.0										 	++++		
S6 Decant and demolish existing Jade Market	+-+												68.5										 	++++		
S7 Construction of Temporary Library & Temporary Jade Market - Foundation	+++						64.5	64.5 64.5 64.5 64.5 64.5																++++		
S7 Construction of Temporary Library & Temporary Jade Market - Superstructure	+++								62.3 62.3 62.3	62.3														+++		
S8 Construction of Western Access Shaft - Excavation of Diaphragm Walls	+	04.4																						++++	-	
Construct Western Access Shaft - Concreting of Diaphragm Wall Construct Western Access Shaft - Soil Excavation of Access Shaft	+	01.4							61.4															++++	-	
SS Construct Western Access Shaft - Son Excavation of Access Shaft Construct Western Access Shaft - Rock Excavation of Access Shaft	$\overline{}$								618	619 619																
S8 Construct Western Access Shaft - Cast Bottom Slab									04.0	6	4.8															
S9 Construct Community Liaison Centre																										
S16a Construct Middle Dwall and Traffic Deck - Piling for King Post									65.6														'			
S16a Construct Middle Dwall and Traffic Deck - Diaphragm Walls									65,3 65,3	65.3 65.3 6	5,3												'			
S16a Construct Middle Dwall and Traffic Deck - Temporary Traffic Deck											61.6															
S16b Construct Middle Dwall and Traffic Deck - Piling for King Post											73.6															
S16b Construct Middle Dwall and Traffic Deck - Diaphragm Walls														73.3 73.3 73.3	73.3											
S16b Construct Middle Dwall and Traffic Deck - Temporary Traffic Deck																		69.	.5				<u> </u>			'
S17 Decant Library and Government Offices in MSCB	لطب														$\Box \Box \Box$									+	$\bot\bot\bot$	
S18 Demolish Multi-storey Carpark Buildking (partially)	$\perp \perp \perp$		$\sqcup \sqcup$											64.6 64.6	64.6 64.6			$\bot\bot\bot$	\bot \bot \bot		\bot		 '	+	$\bot\bot\bot$	
S25 Construction Middle Dwall and Traffic Deck (cross road sections) - Diaphragm Walls	$\perp \perp \perp \perp$											\Box			71.6			$\perp \perp \perp$	\bot \bot \bot \bot		\bot		'	+	$\bot\bot\bot$	
S25 Construction Middle Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck	+	-	\vdash					+ $+$ $+$ $+$ $+$	+++	$\sqcup \sqcup \sqcup$	\perp			$\perp \downarrow \perp$			+	69.	5	+ + + +	\bot	++++	'	+++	+	
S26 Construction Middle Dwall and Traffic Deck (cross road sections) - Diaphragm Walls	-														68.6								 '			
S26 Construction Middle Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck	+	-	\vdash											-			+	69.	.5	+	\bot	+		+	+	+ $+$
Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From																										
S27a Reclamation Street to Ferry Street) - Foundation and pier	+							 			74.4 74.4	74.4 74.4 74.4	74.4 74.4	-			+	+	+++	+++	++++	+++	+++-	+++	+	++-
Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From																										
S27a Reclamation Street to Ferry Street) - Bridge Deck	+		 														+++	+++	68.1 68.1 68.	1	+++			+++	+++	++-
Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From																							450 270	65.0		
S27a Reclamation Street to Ferry Street) - Surfacing, MJ, noise burrieres	 																		+ + + +	+++	++++	65.0 65.0	03.0 63.0 65.0	03.0	+++	++-
Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From S27b Temple Street to Reclamation Street) - Foundation and pier												63.0	63.9 63.0 63.0	63.9 63.9 63.0												
													0.7 0.7 0.7	0.7 0.7												
Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From S27b Temple Street to Reclamation Street)) - Bridge Deck																		57.9 57.9 57.9					'			
Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From 827b Temple Street to Reclamation Street) - Surfacing, MJ, noise barrieres																						54.9 54.9	54.9 54.9 54.9	54.9		
																							'			
S28 Diversion of Ferry Street Junction	\longrightarrow							59.6 59.6 59.6															 	+	\rightarrow	
S29 Construct Southern Dwall & Dwall Crossing Ferry Street - Piline for King Post	\longrightarrow								55.0														 	+	-	
S29 Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post	+								55.4														 	+	-	
S29 Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls	\vdash								55.1 55.1	55.1 55.1				-										++++	+	
S29 Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls	\longrightarrow									5.	5.6												 			
S29 Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck	+-+										53.5												 	++++	+	
S30 Underpinning Works for YMT Police Station - Grouting	+++					58.0	58.0 58.0	58.0															++-	++++	+	
S30 Underpinning Works for YMT Police Station - Sokcet H Piling	+++				59.8																			++++		
S30 Underpinning Works for YMT Police Station - micro-piling	+++							58.8 58.8 58.8	58.8 58.8 58.8	58.8														+++	+	
S30 Underroinning Works for YMT Police Station - excavation	+++								56.6	56.6															-	
S30 Underpinning Works for YMT Police Station - pipe piling S30 Underpinning Works for YMT Police Station - tam grouting	+										58.8	58.8 58.8 58.8	58.8 58.8 58.8	58.8 58.8	500 500									++++	+	
	+													28.0	38.0 38.0	61.5								++++	-	
S30 Underpinning Works for YMT Police Station - Construct underpinning beam and slab S31 Decant YMT Police Station	+														01.5	01.3 01.3					 				+++	++
S32 Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post	+																				64.0				+	
S32 Construct Southern Dwall & Dwall Crossing Ferry Street - Frining for King Post S32 Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post																					64.3				$\neg \neg \vdash$	\top
S32 Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls			Ш																	63.5	63.5					
S32 Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphraem Walls																					63.6 63.6					
S32 Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck																					61.6					
S33 Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post																					79.9		<u> </u>			
S33 Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post	$\perp \perp \perp \perp$																				79.9		 '	+		
S33 Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls	\perp																				7	5 78.5 78.5	<u> </u>	\perp	\perp	
S33 Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls	+	-	\vdash					+ $+$ $+$ $+$ $+$	+++	$\sqcup \sqcup \sqcup$	\perp			$\perp \downarrow \perp$			+	+++	++++	+ + + +	\bot	78.9	'	+++	+	+
S33 Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck	+											+++		\perp	$\square\square$			+	\bot \bot \bot		\bot		76.5	++++	+	
S34 Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post	+											+++			67.8		+	\perp	+	+	++++	+	 '	++++	+	+
S34 Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post	+		\vdash						+++	++	+			++	69.5		+++	+++	+++	+++	+++		+++-'	+	+++	++
S34 Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls	+									++				+	68.2	68.2 68.2 68.2	+	+++	+	+++	+++		+++-'	+++	+++	++
S34 Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Diaphragm Walls	+					+				++		+++		++	+++	68	8.3	+++	+		++++		+++-'	+++	+++	++
S34 Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic Deck	\longrightarrow																66.3						 			
S35 Demolish Multi-storey Carpark Buildking (remaining part)	+		\vdash				+							+				+++	+	+++	62.9 62.9 62.9		+++-	+++	+++	++
S36a. Demolish existing flyover	+													++				+++	+	+++	70.4 70.4 7		 	+++	+++	
	+											+++		++			 	+	+++	+ + + +	66.5 66.5 6	.5	++-	+++	+++	++
S36b Demolish existing flyover Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) -																76.6 76.6 76	6.6 76.6	+++	+++	+	- 		+++-	+++	+++	-
	+				\Box	+	+				+		+++	-	++++						-	70.7 70.7 70.7	 		-	++
SN60 Demolish existing Brower Construct Proposed GRF Pyower (the remain Part from Reclamation Street to Ferry Street) - SST2a. Construct Proposed GRF Pyower (the remain Part from Reclamation Street to Ferry Street) - Bridge SST2a. Deck. Construct Proposed GRF Pyower (the remain Part from Reclamation Street to Ferry Street) - Bridge Construct Proposed GRF Pyower (the remain Part from Reclamation Street to Ferry Street) - Surfacing					1 1									1 1								1 1 1 1				
SN60 Demolish existing Prover. Construct Proposed GRF Prover the remain Part from Reclamation Street to Ferry Street) - Formular Proposed GRF Prover the remain Part from Reclamation Street to Ferry Street) - Bridge SSTa. SSTa. SSTa. SSTa. SSTa. Mit note hunteres Mit note hunteres Construct Proposed GRF Prover the remain Part from Reclamation Street to Ferry Street) - Surface SSTa. Mit note hunteres Construct Proposed GRF Prover the remain Part from Reclamation Street to Ferry Street) - Construct Proposed GRF Prover the remain Part from Reclamation Street to Ferry Street - Construct Proposed GRF Prover the remain Part from Reclamation Street to Ferry Street -																	+ + + + + + + + + + + + + + + + + + + +						++++-	67.6 67.6 67.6 6	67.6 67.6 67.6 67	67.6
Denotish existing floorer Construct Proposed GRF Flyorer (the remain Part from Reclamation Street to Ferry Street) - SSTa - Foundation and pier Construct Proposed GRF Flyorer (the remain Part from Reclamation Street to Ferry Street) - Biddge SSTa Construct Proposed GRF Flyorer (the remain Part from Reclamation Street to Ferry Street) - Surfacing SSTa Min neise barriers Construct Proposed GRF Flyorer (the remain Part from Reclamation Street to Ferry Street) - Surfacing SSTa Construct Proposed GRF Flyorer (the remain Part from Reclamation Street to Ferry Street) -															64.8 64.8 64.8	64.8 64.8								67.6 67.6 67.6 6	67.6 67.6 67.6 6	67.6
SSD Demokh chicing Broorr Control Proposed (REF Prover the remain Part from Reclamation Steet to Ferry Steet) - SSTa. Foundation and ferr Foundation and ferr SSTa. Examination Proposed (REF Prover the remain Part from Reclamation Steet to Ferry Steet) - Birdge SSTa. Desc. Expression of Ref Prover the remain Part from Reclamation Steet to Ferry Steet) - Surfacing, SSTa. Manufactured Proposed (REF Prover the remain Part from Reclamation Steet to Ferry Steet) - Surfacing, SSTa. Sometime Proposed (REF Prover the remain Part from Reclamation Steet to Ferry Steet) - Birdge SSTB. Sometime Proposed (REF Prover the remain Part from Reclamation Steet to Ferry Steet) - Birdge SSTB. Sometime Proposed (REF Prover the remain Part from Reclamation Steet to Ferry Steet) - Surfacing,															64.8 64.8 64.8	64.8 64.8 64.8 58.8 58.8 58.8										
Demokh utsing Broor Comment Proposed (Eff Flyover the remain Part from Reclamation Steet to Ferry Street) - Strate Foundation and per Content Proposed (Eff Flyover the remain Part from Reclamation Steet to Ferry Street) - Bridge Strate Strate Demoke (Eff Flyover the remain Part from Reclamation Street to Ferry Street) - Surfacing Strate Demoke (Eff Flyover the remain Part from Reclamation Street to Ferry Street) - Surfacing Strate Strate Demoke (Eff Flyover the remain Part from Reclamation Street to Ferry Street) - Bridge Strate Strate Demoke (Eff Flyover the remain Part from Reclamation Street to Ferry Street) - Bridge Strate Demoke (Eff Flyover the remain Part from Reclamation Street to Ferry Street) - Bridge Strate Demoke (Eff Flyover the remain Part from Reclamation Street to Ferry Street) - Surfacing Strate Bridge (Eff Flyover the remain Part from Reclamation Street to Ferry Street) - Surfacing Strate Bridge (Eff Flyover the remain Part from Reclamation Street to Ferry Street) - Surfacing Strate Bridge (Eff Flyover the remain Part from Reclamation Street to Ferry Street) - Surfacing Strate Bridge (Eff Flyover the remain Part from Reclamation Street to Ferry Street) - Surfacing															64.8 64.8 64.8									67.6 67.6 67.6 6 55.8 55.8 55.8 5	55.8 55.8 55.8 55	
SSD Demokh chicing Broorr Control Proposed (REF Prover the remain Part from Reclamation Steet to Ferry Steet) - SSTa. Foundation and ferr Foundation and ferr SSTa. Examination Proposed (REF Prover the remain Part from Reclamation Steet to Ferry Steet) - Birdge SSTa. Desc. Expression of Ref Prover the remain Part from Reclamation Steet to Ferry Steet) - Surfacing, SSTa. Manufactured Proposed (REF Prover the remain Part from Reclamation Steet to Ferry Steet) - Surfacing, SSTa. Sometime Proposed (REF Prover the remain Part from Reclamation Steet to Ferry Steet) - Birdge SSTB. Sometime Proposed (REF Prover the remain Part from Reclamation Steet to Ferry Steet) - Birdge SSTB. Sometime Proposed (REF Prover the remain Part from Reclamation Steet to Ferry Steet) - Surfacing,														60.1 60.1	64.8 64.8 64.8						510			55.8 55.8 55.8 5	55.8 55.8 55.8 55	55.8

			2	2018					2019				2020				2021				2022				2023				2024	
Activity	Jan Feb	Mar Apr	May Jun	n Jul Aug	Sep Oct	Nov Dec Jan	Feb Mar	Apr May	Jun Jul	Aug Sep Oct Nov	Dec Jan Feb Ma	r Apr May .	lun Jul Aug	Sep Oct Nov	Dec Jan	Feb Mar Apr Ma	y Jun Jul Aug	Sep Oct No	ov Dec Jan Feb	Mar Apr	May Jun Jul A	ig Sep Oct No	ov Dec Jan	Feb Mar Apr	May Jun Jul	Aug Sep Oct	Nov Dec Jan	Feb Mar A	Apr May Jun Jul	Aug Sep
Construct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm Walls		+-+-		+	+																		72,4	72.4			 		+	
Construct Southern Dwall and Traffic Deck (cross road sections) - Temporary Traffic De	-	+		+																				67.1					+	
Construct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm Walls	-+-	+		+	+																		78.2	78.2					+	
Construct Southern Dwall and Traffic Deck (cross road sections) - Temporary Traffic De				+	+																			72.9					+	
Demolish special clinic extension building				+	-								71.2	71.2 71.2 71.2	71.2														+	
Excavation of Tunnel Tubes (under cover of traffic deck)					$\perp \perp \perp$										55.6 55.6										55.6 55.6 55.6				\bot	
Construct Southern Dwall & Traffic Deck - Piling for King Post				'								66.0																		
Construct Southern Dwall &Traffic Deck - Grouting for King Post												65.8																		
Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls												64.2 6	4.2																	
Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls													65.9																	
Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck		1											643																	
				+ + + +									04.0																-	
Construct Northern Dwall & Traffic Deck - Piling for King Post	-+	+		+	+										71.2														+	
Construct Northern Dwall &Traffic Deck - Grouting for King Post		+		+-+-	+-+-+										71.1														+	
Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls	-	+-+-		+	+											59.5 69.5													+++-	
Construct Southern Dwall & Traffic Deck - Concreting for Diaphragm Walls	\longrightarrow	+-+-		+	+											71.2													+++	
Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck				+	+++																		69.5						+	
Excavation of Tunnel Tubes (under cover of traffic deck)					$\perp \perp \perp$																			50.5 50.5	50.5 50.5				\bot	
Excavation of Tunnel Tubes (under cover of traffic deck)																											57.7 57.7 57.7	57.7	\bot	
Excavation of Tunnel Tubes (under cover of traffic deck)																											70.6	70.6 70.6 7	.0.6	
Underpinning of Existing Bridges (under cover of traffic deck)					$ \top$						-1 1 1	4	8.3 48.3 48.3	48.3 48.3 48.3	48.3	-1 1 \top				\perp	\Box	\perp						\perp		\perp
Construction of the Cut and Cover Tunnel (under cover of traffic deck)													100	1332													57.0	52.8 52.8	12.8 52.8 52.8 52.1	8 52.8 52.9
				+ + + +										er a . er a	500 500												32.0	32.0 32.0 3	20 220 220 320	32.0 32.0
Underpinning of Existing Bridges (under cover of traffic deck)		+		+	-									30.8 30.8	30.8 30.8	00.8 00.8 00.8													+	
Construction of the Cut and Cover Tunnel (under cover of traffic deck)		+		+-+-	+-+-+																						61.3	61.3 61.3 6	13 61.3 61.3 61.3	3 61.3 61.3
Underpinning of Existing Bridges (under cover of traffic deck)	-	+-+-		+	+							67.0 6	7.0 67.0 67.0	67.0															+++-	
Construction of the Cut and Cover Tunnel (under cover of traffic deck)				+							-																71.4	71.4 71.4 7	71.4 71.4 71.4 71.4	4 71.4 71.4
Underpinning of Existing Bridges (under cover of traffic deck)																48.0 48.0 48.0 48.	0 48.0 48.0 48.0	48.0 48.0 48.	3.0										\bot	
Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)				+	+++														58.4 58.4 58.4	58.4 58.4 5	58.4								+	
Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and a	ong Ting																													
Ping Street		+-+-		+	+-+-+																			48.0 48.0	48.0				+	
Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)	+	+-+-		+													59.2 59.2	59.2 59.2 59.	0.2 59.2 59.2 59.2	59.2 59.2	59.2 59.2 59.2									
Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and a	ong Ting																													
Ping Street	-+	+-+-		+	+++																				48.8 48.8	48.8 48.8 48.8			++-	
Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)	-+	+		+	+																			59.4 59.4	59.4				+	
Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and a Ping Street	ing Ting																								50.4	50.4 50.4 50.4	50.4			
Fing Succi		+		+	$\overline{}$																				30.4 30.4	30.4 30.4 30.4	30.4		-	
Road works for re-alien Ferry Street at-grade road																												570 570 57	10	
				+ + + +																								3130 3730 37	, ,	
Demolish the Existing Ferr Street Subway		+		+	-										34.0														+	
Construct Northern Dwall & Traffic Deck (cross road sections) - Excavation for Diaphra		+		+														59.7 59.	0.7										+	
Construct Northern Dwall & Traffic Deck (cross road sections) - Concreting for Diaphra	1 Walls	++	+ +	++	+++		1 -	1 1				+++			+++	+	+++	59.9 59.9 59.	0.9	+++	+	+++	+					+++	+++	+++
Construct Northern Dwall & Traffic Deck (cross road sections) -Temporary Traffic Deck		++	+	+	+						-	+++				+			57.8	+++	+	+	+					+++	+	+++
Construct Northern Dwall & Traffic Deck (cross road sections) - Excavation for Diaphra	a Walls	+		+	+					++++	+++	+			+	+++	+++	66.3 66.	5.3	+	-	+	+			++-		+	+	
Construct Northern Dwall & Traffic Deck (cross road sections) - Concreting for Diaphra		44	\perp	444	+						\bot	+				\bot		66.4 66.4 66.	5.4	+		\perp	\perp					$\sqcup \sqcup \sqcup$	+	+
Construct Northern Dwall & Traffic Deck (cross road sections) -Temporary Traffic Deck		$\bot\bot$		$\bot\bot\bot$	\perp											\perp			64.3				\bot					$\sqcup \sqcup$	\bot	
Reinstate the affected roads and footpaths																											65.7 65.7 65.7	65,7		
Road works for Section between Ferry Street and Nathan Road							1																					68.1 68	3.1 68.1 68.1 68.1	68.1 68.1
Reinstate the affected roads and footpaths				T																							686 686 604	68.6	333 333	
Reanstate the affected roads and rootpaths Road works for Section between Ferry Street and Nathan Road		+		+	+																						00.0 00.0 08.0	00.0	26 606 777	69.6 69.6
	-	++	1	+	+++		1 1					+++								+++								69.6 66	0 09.0 09.0 69.6	09.0 09.6 0
	-+-	++		+	+					 	- - - 	+++				+++	+++			+++	- - - 	+			58.5	58.5 58.5 58.5	58.5 58.5 58.5	58.5 58.5 51	5 58.5 58.5 58.5	58.5
Construction of the Cut and Cover Tunnel (under cover of traffic deck)		++		+	+						+	+++			++	+++				++	+	+	+				+	+++	+	43.9 43.9
Construction of the Cut and Cover Tunnel (under cover of traffic deck) Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)		1 1		$\bot\bot\bot$	+						+	+			\vdash	+++	+		+	+	+	+					72.1 72.1 72.1	72.1 72.1 7.	.1 72.1 72.1 72.1	72.1 72.1
Construction of the Cut and Cover Tunnel (under cover of traffic deck)		+-													1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1	1 1 1					1 1 1			67.0 67.0
Construction of the Cut and Cover Tunnel (under cover of traffic deck) Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)				$\perp \perp \perp$												-		+-+-		+++								57	1.9 57.9	313 313
Construction of the Cut and Cover Tunnel (under cover of traffic deck) Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck) Construction of the Cut and Cover Tunnel (under cover of traffic deck)		43.0	43.0 43.0																									57	1.9 57.9	31.9 31.9
Construction of the Cut and Cover Turned tander cover of traffic deck) likeldfilling on Top of Out and Cover Turned tander cover of traffic deck) Construction of the Cut and Cover Turned tander cover of traffic deck) Likelfilling on Top of Cut and Cover Turned tander cover of traffic deck) Construction of Temorary Material and Outlief Both Corner. Pseudation Construction of Temorary Material and Outlief Both Corner. Pseudation		43.0	43.0 43.0	53.0 53.0	53.0 53.0	53.0 53.0																						51	7.9 57.9	313 313
Construction of the Cut and Cover Tunnel (under cover of traffic deck) Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck) Construction of the Cut and Cover Tunnel (under cover of traffic deck) Backfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)		43.0	67 66	53.0 53.0 66 66	53.0 53.0 66 66	53.0 53.0 66 67 66	50 58	58 65	65 66		68 69 69 68	72 70	75 78 77	77 76 76	79 75	75 76 76 77	73 70 71	78 78 78	8 77 62 62		63 62 74	68 68 68		79 75 70	81 81 79	79 79 80	75 75 80	78 78 7	7.9 57.9 77. 77. 77. 77. 73. 2 2 2 2	77 77

ultacted in more than one works sites, the distance of the works site closer to the NSR is adopted in the assessment as the worst-case scenario broadings of the NSR are not assessment to be placed at the notional source position according to the Technical Memorrandum on Noise from Construction Work other than Percussive Pilling* by EFD, within SOR or the NSR. CNR STATUS section. Pollowing the PSTATW CNRMP, the noise level is extracted for this assessment.

Worksite	Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time,	Time Factor	Quiet Plant SWL with on- time %	No. of plants	Total SWL	from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicte Noise Level for each group, dB(A)
			Concrete Lorry Mixer Concrete pump	CNP044 CNP047	109 109	60 80	-2 -1	107 108	1	107 108	110 110	-49 -49	3	-5 -10	56 52	
			Dump Truck with Grab Generator	CNP069 CNP103	105 95	70 100	-2 0	103 95	1 2	103 98	110 110	-49 -49	3	-5 -10	53 42	60
	Construct Dwall and Traffic Deck -	Jul-18	Lorry	CNP142	105	60	-2	103	1	103	110	-49	3	-5	52	
	Piling for King Post	00.10	Generator	CNP103	95	100	0	95	2	98	110	-49	3	-10	42	
			Lorry Crane Mobile	CNP142 BS D7-114	105 101	60 70	-2 -2	103 99	1	103 99	110 110	-49 -49	3	-5 -5	52 49	59
			Bored Piling Crane mounted auger Excavator/Loader, Wheeled/Tracked	BS D4-37 EPD-09560	111 99	70 70	-2 -2	109 97	2	112 97	110 110	-49 -49	3	-10 -5	57 47	
			Bar Bender and Cutter Concrete Lorry Mixer	CNP021 CNP044	90 109	70 60	-2 -2	88 107	1	88 107	110 110	-49 -49	3	0 -5	43 56	
			Concrete pump	CNP047	109	80	-1	108	1	108	110	-49	3	-10	52	59
			Generator Lorry	CNP103 CNP142	95 105	100 70	-2	95 103	2	98 103	110 110	-49 -49	3	-10 -5	42 53	
S3	Construct Dwall and Traffic Deck - Diaphragm Walls	Aug 2018 - Nov 2018	Poker, Vibratory, Hand Held or	CNP173	102	60	-2	100	1	100	110	-49	3	-5	49	
33			Dump Truck with Grab Generator	CNP069 CNP103	105 95	70 100	-2 0	103 95	1 2	103 98	110 110	-49 -49	3	-5 -10	53 42	
			Crane Mobile	BS D7-114	101	70 90	-2 0	99	1	99 105	110	-49 -49	3	-5 -10	49 49	56
			Piling, Diaphragm Wall, Bentonite Filtering Excavator/Loader, Wheeled/Tracked	CNP162 EPD-09560	105 99	60	-2	105 97	1	97	110 110	-49	3	-5	46	
	Construct Southern Dwall & Traffic		Dump Truck with Grab Generator	CNP069 CNP103	105 95	70 100	-2 0	103 95	1	103 95	110 110	-49 -49	3	-5 -10	53 39	
	Deck - Excavation for Diaphragm	Nov 2018 - Jan 2019	Lorry Crane Mobile	CNP142 BS D7-114	105 101	70 70	-2 -2	103 99	1	103 99	110 110	-49 -49	3	-5 -5	53 49	57
	Walls	0411 2010	Piling, Diaphragm Wall, Bentonite Filtering	CNP162	105	90	0	105	1	105	110	-49	3	-10	49	
	Construct Southern Dwall &Traffic		Excavator/Loader, Wheeled/Tracked Bar Bender and Cutter	EPD-09560 CNP021	99 90	60 70	-2 -2	97 88	1	97 88	110 110	-49 -49	3	-5 0	46 43	
	Deck - Concreting for Diaphragm Walls	Feb-19	Concrete Lorry Mixer Concrete pump	CNP044 CNP047	109	60 80	-2 -1	107 108	1	107 108	110 110	-49 -49	3	-5 -10	56 52	58
	Construct Southern Dwall & Traffic		Generator Lorry	CNP103 CNP142	95 105	70 90	-2 0	93 105	1	93 105	110 110	-49 -49	3	-10 -5	38 54	
	Deck - Temporary Traffic Deck	Mar-19	Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	110	-49	3	-5	47	56
			Crane Mobile Bar Bender and Cutter	BS D7-114 CNP021	101 90	70 60	-2 -2	99 88	1	99 88	110 120	-49 -50	3	-5 0	49 41	
			Concrete Lorry Mixer Concrete pump	CNP044 CNP047	109	50 70	-3 -2	106 107	3	111	120 120	-50 -50	3	-5 -10	59 51	
S4	Construction of Methodone Clinic	Apr 2018 - Jan 2019	Generator Crane Mobile	CNP103 BS D7-114	95 101	100 50	-3	95 98	1	95 98	120 120	-50 -50	3	-10 -5	38 46	61.3
			Poker, Vibratory, Hand Held	CNP173 BS D7-79	102	50 50	-3 -3	99	3 2	104 103	120 120	-50 -50	3	-5 -5	52 51	
			Saw, Circular Wood Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	- 1	97	120	-50	3	-5	46	
S5	Decant and demolish existing Jade Market	Dec-20	Breaker, Excavator Mounted (Hydraulic) Dump Truck with Grab	BS D8-13 CNP069	110 105	60 50	-2 -3	108 102	1	108 102	135 135	-51 -51	3	-5 -5	55 49	57
	Decant and demolish existing Jade		Concrete crusher, excavator mounted Breaker, Excavator Mounted (Hydraulic)	CNP055 BS D8-13	103 110	70 80	-2 -1	101	1	101 109	135 170	-51 -53	3	-5 -5	49 54	
S6	Market	Dec-20	Dump Truck with Grab Concrete crusher, excavator mounted	CNP069 CNP055	105 103	70 90	-2 0	103 103	2	106 103	170 170	-53 -53	3	-5 -5	52 48	57
			Bar Bender and Cutter Concrete Lorry Mixer	CNP021 CNP044	90 109	60 50	-2 -3	88 106	1	88 111	180 180	-53 -53	3	0 -5	38 56	
	Construction of Temporary Library &	May 2019	Concrete pump Generator	CNP047 CNP103	109	70 100	-2 0	107 95	1 2	107 98	180 180	-53 -53	3	-10 -10	47 38	
	Temporary Jade Market - Foundation	- Oct 2019	Crane Mobile	BS D7-114	101	50	-3	98	2	101	180	-53 -53	3	-5	46	58.0
			Poker, Vibratory, Hand Held Saw, Circular Wood	CNP173 BS D7-79	102	50 50	-3 -3	100	2	104	180 180	-53	3	-5 -5	49 48	
S7			Excavator/Loader, Wheeled/Tracked Bar Bender and Cutter	EPD-09560 CNP021	99	70 60	-2 -2	97 88	2	97 91	180	-53 -53	3	-5 0	42	
	Construction of Temporary Library &	N 0040	Concrete Lorry Mixer	CNP044	109	50	-3	106	2	109	180	-53	3	-5	54	
	Temporary Jade Market - Superstructure	Nov 2019 - Feb 2020	Concrete pump Generator	CNP047 CNP103	109 95	40 100	-4 0	105 95	1 2	105 98	180 180	-53 -53	3	-10 -10	45 38	55.7
	Supersurdeture		Crane Mobile	BS D7-114	101	50	-3	98	1	98	180	-53	3	-5	43	
			Saw, Circular Wood Dump Truck with Grab	BS D7-79 CNP069	103 105	50 50	-3 -3	100 102	2	103 105	180 205	-53 -54	3	-5 -5	48 49	
	Construction of Western Access		Generator Lorry	CNP103 CNP142	95 105	100 70	-2	95 103	3	100	205 205	-54 -54	3	-10 -5	39 47	
	Shaft - Excavation of Diaphragm Walls	Apr-18	Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering	BS D7-114	101	50	-3	98	2	101	205	-54	3	-5	45	54
			Plant Excavator/Loader, Wheeled/Tracked	CNP162 EPD-09560	105 99	90	-2	105 97	3	109 97	205 205	-54 -54	3	-10 -5	48 41	
			Bar Bender and Cutter Concrete Lorry Mixer	CNP021 CNP044	90 109	60 50	-2	88 106	1	88 111	205	-54 -54	3	0	37 55	
	Construct Western Access Shaft -	May-18	Concrete pump	CNP047	109	70	-3 -2	107	1 3	107	205 205	-54	3	-5 -10	46	56
	Concreting of Diaphragm Wall	-	Generator Lorry	CNP103 CNP142	95 105	100 70	-2	95 103	1	103	205 205	-54 -54	3	-10 -5	39 47	
			Crane Mobile Dump Truck	BS D7-114 CNP069	101 105	50 50	-3 -3	98 102	2	101 105	205 205	-54 -54	3	-5 -5	45 49	
	Construct Western Access Shaft -		Generator Lorry	CNP103 CNP142	95 105	100 50	-3	95 102	1	98 102	205 205	-54 -54	3	-10 -5	37 46	
	Soil Excavation of Access Shaft	Dec-19	Tracked crane Excavator/Loader, Wheeled/Tracked	BS D7-114 EPD-09560	101 99	70 60	-2 -2	99 97	1 3	99 102	205 205	-54 -54	3	-5 -5	43 45	53
S8			Water Pump, Submersible (Electric) Ventilation Fan	CNP283 CNP241	85 108	100 90	0	85 108	5 2	92 111	205 205	-54 -54	3	0 -15	41 44	
			Breaker, Excavator Mounted (Hydraulic)	BS D8-13	110	60	-2	108	3	113	205	-54	3	0	61	
	Canata at Masters Assess Chaft	lan 2020	Rock drill, excavator mounted Splitter, excavator mounted	SIL EIA BS C12/2	108	50 50	-3 -3	105 98	3	110	205 205	-54 -54	3	0	59 52	
	Construct Western Access Shaft - Rock Excavation of Access Shaft	Jan 2020 - Mar 2020	Dump Truck Generator	CNP069 CNP103	105 95	50 100	-3 0	102 95	2	105 98	205 205	-54 -54	3	-5 -10	49 37	64
			Lorry Tracked crane	CNP142 BS D7-114	105 101	50 70	-3 -2	102 99	1	102 99	205 205	-54 -54	3 3	-5 -5	46 43	1
			Ventilation Fan Bar Bender and Cutter	CNP241 CNP021	108 90	90 60	-2	108 88	2	111 93	205 205	-54 -54	3	-15 0	44 41	
			Concrete Lorry Mixer Concrete pump	CNP044 CNP047	109	50 50	-3	106	2	109	205	-54 -54	3	-5	53	1
	Construct Western Access Shaft -	Apr 00	Generator	CNP103	109 95	100	0	106 95	2	98	205 205	-54	3	-10 -10	48 37	E0.0
	Cast Bottom Slab	Apr-20	Crane Mobile Poker, Vibratory, Hand Held	BS D7-114 CNP173	101	50 50	-3 -3	98 99	3	98 104	205 205	-54 -54	3	-5 -5	42 48	56.6
			Saw, Circular Wood Water Pump, Submersible (Electric)	BS D7-79 CNP283	103 85	50 100	-3 0	100 85	3 4	105 91	205 205	-54 -54	3	-5 0	49 40	1
	Removal of Excavated Material	Feb 2020 -	Ventilation Fan	CNP241	108	90	0	108	3	112	205	-54	3	-15	46	
S13a	through West End Portal	Apr 2020 -	Dump Truck with Grab	CNP069	105	70	-2	103	10	113	110	-49	3	-5	63	62.6

	leasures Scenario			TM Ref. /	Unit Quiet	On-time.	Time	Quiet Plant	No. of		Distance from	Distance	Façade	Barrier	Predicted	Total Predicted
Worksite	Activity	Period	PME Concrete Lorry Mixer	other Ref.	Plant SWL	% 60	Factor	SWL with on- time %	plants	Total SWL	Notional Sources, m	Attenuation	Correction, dB(A)	dB(A)	, Noise Level, dB(A)	each group,
			Concrete Lorry Mixer Concrete pump Dump Truck with Grab	CNP047 CNP069	109 109 105	80 70	-1 -2	108 103	1 1	108 103	80 80 80	-46 -46	3 3	-5 -10 -5	55 55	62
	Construct Dwall and Traffic Deck -	Nov-19	Generator Lorry	CNP103 CNP142	95 105	100 60	0 -2	95 103	1	98 103	80 80	-46 -46	3	-10 -5	45 55	·
	Piling for King Post	1404-15	Generator Lorry	CNP103 CNP142	95 105	100 60	0 -2	95 103	2	98 103	80 80	-46 -46	3	-10 -5	45 55	-
			Crane Mobile Bored Piling Crane mounted auger	BS D7-114 BS D4-37	101	70 70	-2 -2	99	1 2	99	80 80	-46 -46	3	-5 -10	51 59	62
			Excavator/Loader, Wheeled/Tracked Bar Bender and Cutter	EPD-09560 CNP021	99 90	70 70	-2 -2	97 88	1	97 88	80 80	-46 -46	3	-5 0	49 45	<u> </u>
16a			Concrete Lorry Mixer Concrete pump	CNP044 CNP047	109 109	60 80	-2 -1	107 108	1	107	80 80	-46 -46	3	-5 -10	59 55	62.1
			Generator Lorry Poker, Vibratory, Hand Held	CNP103 CNP142 CNP173	95 105 102	100 70 60	-2 -2	95 103 100	1 1	98 103 100	80 80 80	-46 -46 -46	3 3 3	-10 -5 -5	45 55 52	1
	Construct Middle Dwall and Traffic Deck - Diaphragm Walls	Apr 2020	or Dump Truck with Grab	CNP069	105	70	-2	103	1	103	80	-46	3	-5	55	
			Generator Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering	CNP103 BS D7-114	95 101	100 70	-2	95 99	1	98 99	80 80	-46 -46	3	-10 -5	45 51	58.6
			Plant Excavator/Loader, Wheeled/Tracked	CNP162 EPD-09560	105 99	90 60	-2	105 97	1	105 97	80 80	-46 -46	3	-10 -5	51 49	_
	Construct Middle Dwall and Traffic	May-20	Generator Lorry	CNP103 CNP142	95 105	70 90	-2 0	93 105	1	93 105	80 80	-46 -46	3	-10 -5	40 56	58.3
	Deck - Temporary Traffic Deck	IVIAY-20	Excavator/Loader, Wheeled/Tracked Crane Mobile	EPD-09560 BS D7-114	99 101	70 70	-2 -2	97 99	1	97 99	80 80	-46 -46	3	-5 -5	49 51	36.3
			Concrete Lorry Mixer Concrete pump	CNP044 CNP047 CNP069	109 109 105	60 80 70	-2 -1 -2	107 108 103	1 1	107 108 103	160 160 160	-52 -52 -52	3 3 3	-5 -10	53 49 49	56
	Construct Durall and Traffic Deals		Dump Truck with Grab Generator Lorry	CNP103 CNP142	95 105	100	0 -2	95 103	2	98	160	-52 -52	3	-5 -10 -5	39 49	- 30
	Construct Dwall and Traffic Deck - Piling for King Post	Jul-20	or Generator	CNP103	95	100	0	95	2	98	160	-52 -52	3	-10	39	
			Crane Mobile	CNP142 BS D7-114 BS D4-37	105 101 111	70 70	-2 -2 -2	103 99 109	1 1 2	103 99 112	160 160 160	-52 -52	3 3	-5 -5 -10	49 45 53	56
			Bored Piling Crane mounted auger Excavator/Loader, Wheeled/Tracked Bar Bender and Cutter	EPD-09560 CNP021	99	70 70 70	-2 -2 -2	97 88	1 1	97 88	160 160	-52 -52 -52 -52	3 3	-10 -5 0	43 39	
16b			Concrete Lorry Mixer Concrete pump	CNP044 CNP047	109	60 80	-2 -1	107	1	107 108	160 160	-52 -52	3	-5 -10	53 49	56.1
100			Generator Lorry	CNP103 CNP142	95 105	100 70	0 -2	95 103	1	98 103	160 160	-52 -52	3	-10 -5	39 49	30.1
	Construct Middle Dwall and Traffic Deck - Diaphragm Walls	Feb 2021 - May 2021	Poker, Vibratory, Hand Held or Dump Truck with Grab	CNP173 CNP069	102	70	-2 -2	100	1	100	160	-52 -52	3	-5 -5	46	
			Generator Crane Mobile	CNP103 BS D7-114	95 101	100 70	0 -2	95 99	2	98 99	160 160	-52 -52	3	-10 -5	39 45	52.6
			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	160	-52	3	-10	45	52.6
	Construct Middle Dwall and Traffic		Excavator/Loader, Wheeled/Tracked Generator	EPD-09560 CNP103	99 95	60 70	-2 -2	97 93	1	97 93	160 160	-52 -52 -52	3	-5 -10	43 34	
	Deck - Temporary Traffic Deck	Jul-22	Lorry Excavator/Loader, Wheeled/Tracked Crane Mobile	CNP142 EPD-09560 BS D7-114	105 99 101	90 70 70	-2 -2	105 97 99	1 1	105 97 99	160 160 160	-52 -52 -52	3 3	-5 -5 -5	50 43 45	52.3
			Breaker, Excavator Mounted (Hydraulic) Dump Truck with Grab	BS D8-13 CNP069	110	80 70	-1 -2	109	1 2	109 106	245 245	-56 -56	3	-5 -5	51 49	-
	Demolish Multi-storey Carpark Buildking (partially)	Mar 2021 - Jun 2021	Concrete crusher, excavator mounted Forklift	CNP055 XRL - HK	103 104	80 20	-1 -7	102 97	2	105 100	245 245	-56 -56	3	-5 -5	47 42	59
	building (partany)	0011 2021	Concrete Core	Section EIA CNP042 CNP203	117	20	-7 -6	110	2	113 112	245	-56	3 3	-5 -5	55	1
			Saw, concrete Bar Bender and Cutter Concrete Lorry Mixer	CNP021 CNP044	115 90 109	25 70 60	-2 -2	88 107	1	88 107	245 120 120	-56 -50 -50	3	0 -5	54 42 55	-
			Concrete pump Dump Truck with Grab	CNP047 CNP069	109 105	80 70	-1 -2	108 103	1	108 103	120 120 120	-50 -50 -50	3	-10 -5	51 52	<u> </u>
	Construction Middle Dwall and Traffic Deck (cross road sections) -	May-21	Generator Lorry	CNP103 CNP142	95 105	100 70	-2	95 103	1	95 103	120	-50 -50 -50	3 3	-10 -5	38 52	60.1
S25	Diaphragm Walls		Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering Plant	BS D7-114 CNP162	101	70 90	-2 0	99 105	1	99 105	120 120	-50	3	-5 -10	48	1
			Poker, Vibratory, Hand Held Excavator/Loader, Wheeled/Tracked	CNP173 EPD-09560	102 99	60 60	-2 -2	100 97	1	100 97	120 120	-50 -50	3	-5 -5	48 45	
	Construction Middle Dwall and Traffic Deck (cross road sections) -	Jul-22	Generator Lorry	CNP103 CNP142	95 105	70 90	-2 0	93 105	1	93 105	120 120	-50 -50	3	-10 -5	37 53	54.8
	Temporary Traffic Deck		Excavator/Loader, Wheeled/Tracked Crane Mobile Bar Bender and Cutter	EPD-09560 BS D7-114 CNP021	99 101 90	70 70 70	-2 -2 -2	97 99 88	1 1	97 99 88	120 120 165	-50 -50 -52	3 3 3	-5 -5 0	46 48 39	
			Concrete Lorry Mixer Concrete pump	CNP044 CNP047	109	60 80	-2 -1	107	1	107 108	165 165	-52 -52	3	-5 -10	52 49	1
	Construction Middle Dwall and		Dump Truck with Grab Generator	CNP069 CNP103	105 95	70 100	-2 0	103 95	1	103 95	165 165	-52 -52	3	-5 -10	49 36	_
	Traffic Deck (cross road sections) - Diaphragm Walls	May-21	Lorry Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering	CNP142 BS D7-114	105 101	70 70	-2 -2	103 99	1	103 99	165 165	-52 -52	3	-5 -5	49 45	57.3
520			Plant Poker, Vibratory, Hand Held	CNP162 CNP173	105	90 60	0 -2	105	1	105	165 165	-52 -52	3	-10 -5	45 45	_
	Construction Middle Dwall and		Excavator/Loader, Wheeled/Tracked Generator	EPD-09560 CNP103	99 95	60 70	-2 -2	97 93	1	97 93	165 165	-52 -52 -52	3	-5 -10	42 34	
	Traffic Deck (cross road sections) - Temporary Traffic Deck	Jul-22	Lorry Excavator/Loader, Wheeled/Tracked	CNP142 EPD-09560	105 99	90 70	0 -2	105 97	1	105 97	165 165	-52 -52	3	-5 -5	50 43	52.0
			Crane Mobile Concrete Lorry Mixer Dump Truck with Grab	BS D7-114 CNP044 CNP069	101 109 105	70 60 60	-2 -2 -2	99 107 103	2 2	99 110 106	165 80 80	-52 -46 -46	3 3 3	-5 -5 -5	45 62 58	-
	Construct Proposed GRF Flyover (two lanes) on Northern Side and	Jun 2020 -	Generator Excavator/Loader, Wheeled/Tracked	CNP103 EPD-09560	95 99	100 50	0 -3	95 96	3	100	80 80	-46 -46	3	-10 -5	47 51	
	the Temporary Deck (From Reclamation Street to Ferry Street) - Foundation and pier	Dec 2020	Crane Mobile Bar Bender and Cutter	BS D7-114 CNP021	105 90	60 70	-2 -2	103 88	2	106 88	80 80	-46 -46	3	-5 0	58 45	66.2
	Construct Proposed GRF Flyover		Concrete pump Bored Piling Crane mounted auger Poker, Vibratory, Hand Held	CNP047 BS D4-37 CNP173	109 111 102	70 80 50	-2 -1 -3	107 110 99	1 2 3	107 113 104	80 80 80	-46 -46 -46	3 3 3	-10 -10 -5	54 60 56	1
S27a	(two lanes) on Northern Side and the Temporary Deck (From	Sep 2022 -	Crane Mobile Generator	BS D7-114 CNP103	101	60	-2 0	99 95	2	102	80 80	-46 -46	3	-5 -10	54 47	59.8
	Reclamation Street to Ferry Street) - Bridge Deck	Nov 2022	Bar Bender and Cutter Concrete pump	CNP021 CNP047	90 109	70 70	-2 -2	88 107	1	88 107	80 80	-46 -46	3	0 -10	45 54	-
	Construct Proposed GRF Flyover (two lanes) on Northern Side and	Oct 2023 -	Asphalt Paver	EPD-01126	104	50	-3	101	1	101	80	-46	3	-5	53	
	the Temporary Deck (From Reclamation Street to Ferry Street) - Surfacing, MJ, noise barrieres	Mar 2024	Road Roller Crane Mobile	EPD-01183 BS D7-114	97	60 60	-2 -2	95 99	1 2	95 102	80	-46 -46	3	-5 -5	47 54	56.8
	Construct Proposed GRF Flyover		Concrete Lorry Mixer Dump Truck with Grab	CNP044 CNP069	109	60 60	-2 -2	107	2	110	210 210	-54 -54	3	-5 -5	53 49	-
	(two lanes) on Northern Side and the Temporary Deck (From	Oct 2020 -	Generator Excavator/Loader, Wheeled/Tracked	CNP103 EPD-09560	95 99	100 50 60	0	95	3	100 100 99 102	210 210	-54 -54 -54	3	-10 -5	38 43	57.4
	Temple Street to Reclamation Street) - Foundation and pier	Apr 2021	Crane Mobile Bar Bender and Cutter	BS D7-114 CNP021	101 90	70	-3 -2 -2	96 99 88	2 1	88	210 210	-54	3	-5 0	45 37	37.4
	Construct Proposed GRF Flyover		Concrete pump Bored Piling Crane mounted auger Poker, Vibratory, Hand Held	CNP047 BS D4-37 CNP173	109 111 102	70 80 50	-2 -1 -3	107 110 99	2 3	107 113 104	210 210 210	-54 -54 -54	3 3 3	-10 -10 -5	46 52 47	1
S27b	(two lanes) on Northern Side and the Temporary Deck (From	Apr 2022 -	Crane Mobile Generator	BS D7-114 CNP103	101 95	60 100	-2 0	99 95	2	102 100	210 210	-54 -54	3	-5 -5	45 38	51.5
	Temple Street to Reclamation Street)) - Bridge Deck Construct Proposed GRF Flyover	Jun 2022	Bar Bender and Cutter Concrete pump	CNP021 CNP047	90 109	70 70	-2 -2	88 107	1	88 107	210 210	-54 -54	3	0	37 46	
	(two lanes) on Northern Side and		Asphalt Paver	EPD-01126	104	50	-3	101	1	101	210	-54	3	-5	45	
	the Temporary Dook /Erom	Oct 2022														
	the Temporary Deck (From Temple Street to Reclamation Street) - Surfacing, MJ, noise	Oct 2023 - Mar 2024	Road Roller Crane Mobile	EPD-01183 BS D7-114	97 101	60 60	-2 -2	95 99	1 2	95 102	210 210	-54 -54	3	-5 -5	38 45	48.4

orksite	Activity	Period	PME Asphalt Paver	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on- time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predic Noise Level each grou dB(A)
			Concrete Lorry Mixer Dump Truck with Grab	CNP069	104 109 105	60 70	-1 -2 -2	103 107 103	2 2	103 110 106	85 85 85	-47 -47	3 3	-5 -5 -5	54 61 58	
		Jul 2019 -	Generator Poker, Vibratory, Hand Held	CNP103 CNP173	95 102	100 70	0 -2	95 100	3	100 105	85 85	-47 -47	3	-10 -5	46 57	
S28	Diversion of Ferry Street Junction	Sep 2019	Road Roller Excavator/Loader, Wheeled/Tracked	EPD-01183 EPD-09560	97 99	70 70	-2 -2	95 97	2	98 100	85 85	-47 -47	3	-5 -5	50 52	65.3
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	85	-47	3	-5	51	
			Bar Bender and Cutter Concrete pump	CNP021 CNP047	90 109	70 80	-2 -1	108	1	88 108	85 85	-47 -47	3	-10	45 54	
	Construct Southern Dwall & Dwall		Generator Lorry	CNP103 CNP142	95 105	100 60	-2	95 103	1	95 103	45 45	-41 -41	3	-10 -5	47 60	1
	Crossing Ferry Street - Piling for King Post	Nov-19	Crane Mobile Bored Piling Crane mounted auger	BS D7-114 BS D4-37	101	70 70	-2 -2	99 109	1	99 109	45 45	-41 -41	3	-5 -10	56 61	64.9
	Construct Southern Dwall & Dwall		Excavator/Loader, Wheeled/Tracked Concrete Lorry Mixer	EPD-09560 CNP044	99 109	70 60	-2 -2	97 107	1	97 107	45 45	-41 -41	3	-5 -5	54 64	
	Crossing Ferry Street - Grouting for King post	Nov-19	Concrete pump	CNP047	109	80	-1	108	1	108	45	-41	3	-10	60	65.2
	ior rung poor		Dump Truck with Grab	CNP069 CNP103	105 95	70 100	-2 0	103 95	1	103 95	45 45	-41 -41	3	-5 -10	60 47	
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation	Dec 2019 -	Generator Lorry	CNP142 BS D7-114	105 101	70 70	-2 -2	103	1	103 99	45 45	-41 -41	3	-5 -5	60 56	65.3
	for Diaphragm Walls	Mar 2020	Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering	CNP162	105	90	0	105	1	105	45	-41	3	-10	56	05.5
	Canata at Cauthara Durall & Durall		Plant Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	45	-41	3	-5	54	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting	Apr-20	Bar Bender and Cutter Concrete Lorry Mixer	CNP021 CNP044	90 109	70 60	-2 -2	88 107	1	88 107	45 45	-41 -41	3	-5	50 64	65.4
	for Diaphragm Walls Construct Southern Dwall & Dwall		Concrete pump Generator	CNP047 CNP103	109 95	80 70	-1 -2	108 93	1	108 93	45 45	-41 -41	3	-10 -10	60 45	
	Crossing Ferry Street - Temporary	May-20	Lorry Excavator/Loader, Wheeled/Tracked	CNP142 EPD-09560	105 99	90 70	0 -2	105 97	1	105 97	45 45	-41 -41	3	-5 -5	61 54	63.3
	Traffic Deck Underpinning Works for YMT	Mar 2019 -	Crane Mobile Grout mixer	BS D7-114 CNP105	101 90	70	-2 -2	99 88	1 2	99 91	45 70	-41 -45	3	-5 -5	56 45	
	Police Station - Grouting	Jun 2019	Grout pump Generator	CNP106 CNP103	105 95	70 100	-2 0	103 95	2	106 95	70 70	-45 -45	3	-5 -10	60 43	59.7
			Lorry	CNP142 BS D7-114	105	60	-2	103	1	103	70	-45	3	-5	56	1
	Underpinning Works for YMT Police Station - Sokcet H Piling	Dec-18	Crane Mobile Drill rig, rotary type (diesel)	CNP 072 EPD-09560	101 110 99	70 70 70	-2 -2 -2	99 108 97	1	99 108 97	70 70 70	-45 -45 -45	3	-5 -10	53 57 51	61.5
	,		Excavator/Loader, Wheeled/Tracked Grout mixer	CNP105	90	40	-4	86	1	86	70	-45	3	-5 -5	39	
			Grout pump Generator	CNP106 CNP103	105 95	40 100	-4 0	101 95	1	101 95	70 70	-45 -45	3	-5 -10	54 43	
	Underpinning Works for YMT Police Station - micro-piling	Aug 2019 - Feb 2020	Drill rig, rotary type (diesel)	CNP142 CNP 072	105 110	60 70	-2 -2	103 108	1	103 108	70 70	-45 -45	3	-5 -10	56 57	60.5
	Police Station - micro-piling	1 60 2020	Grout mixer Grout pump	CNP105 CNP106	90 105	40 40	-4 -4	86 101	1	86 101	70 70	-45 -45	3	-5 -5	39 54	1
S30	Underpinning Works for YMT	Jan 2020 -	Dump Truck with Grab Generator	CNP069 CNP103	105 95	80 100	-1 0	104 95	1	104 95	70 70	-45 -45	3	-5 -10	57 43	58.2
	Police Station - excavation	Feb 2020	Excavator/Loader, Wheeled/Tracked Generator	EPD-09560 CNP103	99 95	80 100	-1 0	98 95	1	98 95	70 70	-45 -45	3	-5 -10	51 43	
	Underpinning Works for YMT	Jul 2020 -	Lorry Drill rig, rotary type (diesel)	CNP142 CNP 072	105 110	60 70	-2 -2	103	1	103 108	70 70	-45 -45	3	-5 -10	56 57	60.5
	Police Station - pipe piling	Mar 2021	Grout mixer	CNP105	90	40	-4	86	1	86	70	-45	3	-5	39	00.5
	Underpinning Works for YMT	Apr 2021 -	Grout pump Grout mixer	CNP106 CNP105	105 90	40 70	-4 -2	101 88	2	101 91	70 70	-45 -45	3	-5 -5	54 45	59.7
	Police Station - tam grouting	Jun 2021	Grout pump Bar Bender and Cutter	CNP106 CNP021	105 90	70 60	-2 -2	103 88	2	106 91	70 70	-45 -45	3	-5 0	60 49	
	Underpinning Works for YMT Police Station - Construct	Jul 2021 -	Concrete Lorry Mixer Concrete pump	CNP044 CNP047	109 109	40 30	-4 -5	105 104	2	108 104	70 70	-45 -45	3	-5 -10	61 52	63.2
	underpinning beam and slab	Sep 2021	Generator Crane Mobile	CNP103 BS D7-114	95 101	100 50	-3	95 98	1 1	95 98	70 70	-45 -45	3	-10 -5	43 51	00.2
			Saw, Circular Wood Generator	BS D7-79 CNP103	103 95	50 100	-3 0	100 95	1	103 95	70 95	-45 -48	3	-5 -10	56 40	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for	Apr-23	Lorry Crane Mobile	CNP142 BS D7-114	105 101	60 70	-2 -2	95 103 99	1	103 99	95 95	-48 -48	3	-5 -5	53 50	58.4
	King Post	1,01	Bored Piling Crane mounted auger Excavator/Loader, Wheeled/Tracked	BS D4-37 EPD-09560	111	70 70	-2 -2	109 97	1	109 97	95 95	-48 -48	3	-10 -5	55 48	-
	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting	Apr-23	Concrete Lorry Mixer	CNP044 CNP047	109 109	60 80	-2 -1	107 108	1	107	95 95	-48 -48	3	-5 -10	57 53	58.8
	Crossing Ferry Street - Grouting		Concrete pump Dump Truck with Grab	CNP069	105	70	-2	103	1	103	95	-48	3	-5	54	
	Construct Southern Dwall & Dwall	Feb 2023 -	Generator Lorry	CNP103 CNP142	95 105	100 70	-2	95 103	1	95 103	95 95	-48 -48	3	-10 -5	40 54	
S32	Crossing Ferry Street - Excavation for Diaphragm Walls	Mar 2023	Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering	BS D7-114 CNP162	101	70 90	-2 0	99 105	1	99 105	95 95	-48 -48	3	-5 -10	50 50	58.8
			Plant Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	95	-48	3	-5	47	-
	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting	Apr 2023 -	Bar Bender and Cutter Concrete Lorry Mixer	CNP021 CNP044	90 109	70 60	-2 -2	88 107	1	88 107	95 95	-48 -48	3	-5	44 57	58.9
	for Diaphragm Walls	May 2023	Concrete pump Generator	CNP047 CNP103	109 95	80 70	-1 -2	108 93	1	108 93	95 95	-48 -48	3	-10 -10	53 39	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary	Jun-23	Lorry Excavator/Loader, Wheeled/Tracked	CNP142 EPD-09560	105	90	0 -2	105 97	1	105 97	95 95	-48 -48	3	-5 -5	55 48	56.8
	Traffic Deck		Crane Mobile Generator	BS D7-114 CNP103		70 100	-2 0	99 95	1	99 95	95 150	-48 -52	3	-5 -10	50 36	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for	May-23	Lorry	CNP142	105	60	-2	103	1	103	150	-52	3	-5	49	54.4
	King Post	iviay-23	Crane Mobile Bored Piling Crane mounted auger	BS D7-114 BS D4-37	101	70 70	-2 -2	99 109	1	99 109	150 150	-52 -52 -52	3	-5 -10	46 51	54.4
	Construct Southern Dwall & Dwall		Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1 .	97	150		3	-5	44	
	Crossing Ferry Street - Grouting for King post	Jun-23	Concrete Lorry Mixer	CNP044	109	50	-3	106	1	106	150	-52	3	-5	52	54.5
S33	Construct Southern Dwall & Dwall		Dump Truck with Grab Generator	CNP069 CNP103	105 95	70 100	-2 0	103 95	1	103 95	150 150	-52 -52	3	-5 -10	50 36	-
333	Crossing Ferry Street - Excavation	Jul 2023 - Sep 2023	Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering	BS D7-114	101	70	-2	99	1	99	150	-52	3	-5	46	53.1
	for Diaphragm Walls	· ·	Plant Excavator/Loader, Wheeled/Tracked	CNP162 EPD-09560	105 99	90	-2	105 97	1	105 97	150 150	-52 -52	3	-10 -5	46 43	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting	Oct-23	Bar Bender and Cutter Concrete Lorry Mixer	CNP021 CNP044	90	70 60	-2 -2	88 107	1	88 107	150 150	-52 -52	3	0 -5	40 53	53.5
	Construct Southern Dwall & Dwall		Generator	CNP103	95	70	-2	93	1	93	150	-52	3	-10	35	
	Crossing Ferry Street - Temporary	Jan-24	Lorry Excavator/Loader, Wheeled/Tracked	CNP142 EPD-09560	105 99	50 70	-3 -2	102 97	1	102 97	150 150	-52 -52	3	-5 -5	48 44	51.0
	Traffic Deck		Crane Mobile Generator	BS D7-114 CNP103	101 95	50 100	-3 0	98 95	1	98 95	150 190	-52 -54	3	-5 -10	44 34	
			Lorry	CNP142 BS D7-114		60 70	-2 -2	103 99	1	103 99	190 190	-54 -54	3	-5 -5	47 44	52.4
	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for	Jun-21	Crane Mobile		111	70 70	-2 -2	109 97	1	109 97	190 190	-54 -54	3	-10 -5	49 42	L
	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post	Jun-21	Crane Mobile Bored Piling Crane mounted auger Excavator/Loader, Wheeled/Tracked	BS D4-37 EPD-09560	99			107	1	107	190	-54	3	-5	51	54.0
	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post Construct Southern Dwall & Dwall	Jun-21 Jun-21	Bored Piling Crane mounted auger Excavator/Loader, Wheeled/Tracked Concrete Lorry Mixer	EPD-09560 CNP044	99 109	60	-2 -1		- 1			-54				
	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post		Bored Piling Crane mounted auger Excavator/Loader, Wheeled/Tracked Concrete Lorry Mixer Concrete pump Dump Truck with Grab	EPD-09560 CNP044 CNP047 CNP069	99 109 109 105	60 80 70	-1 -2	108 103	1 1	108 103	190 190	-54 -54	3 3	-10 -5	47 48	
224	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting Construct Southern Dwall & Dwall	Jun-21 Jul 2021 -	Bored Piling Crane mounted auger Excavator/Loader, Wheeled/Tracked Concrete Lorry Mixer Concrete pump Dump Truck with Grab Generator Lorry	EPD-09560 CNP044 CNP047 CNP069 CNP103 CNP142	99 109 109 105 95 105	60 80 70 100 70	-1 -2 0 -2	108 103 95 103	1 1	108 103 95 103	190 190 190 190	-54 -54 -54 -54	3 3 3 3	-10 -5 -10 -5	47 48 34 48	50.7
634	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting	Jun-21	Bored Piling Crane mounted auger Excavator/Loader, Wheeled/Tracked Concrete Lorry Mixer Concrete pump Dump Truck with Grab Generator Lorry Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering	EPD-09560 CNP044 CNP047 CNP069 CNP103 CNP142 BS D7-114	99 109 109 105 95 105 101	80 70 100 70 70	-1 -2 0 -2 -2	108 103 95 103 99	1 1 1	108 103 95 103 99	190 190 190 190 190	-54 -54 -54 -54 -54	3 3 3 3 3	-10 -5 -10 -5 -5	47 48 34 48 44	52.7
S34	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls	Jun-21 Jul 2021 -	Bored Piling Crane mounted auger Excavator/Loader, Wheeled/Tracked Concrete Lorry Mixer Concrete pump Dump Truck with Grab Generator Lorry Crane Mobile	EPD-09560 CNP044 CNP047 CNP069 CNP103 CNP142 BS D7-114 CNP162 EPD-09560	99 109 109 105 95 105	60 80 70 100 70	-1 -2 0 -2	108 103 95 103	1 1	108 103 95 103 99 105	190 190 190 190 190 190 190	-54 -54 -54 -54 -54 -54	3 3 3 3	-10 -5 -10 -5	47 48 34 48 44 44 44	52.7
S34	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation	Jun-21 Jul 2021 -	Bored Piling Crane mounted auger Excavator/Loader, Wheeled/Tracked Concrete Lorry Mixer Concrete pump Dump Truck with Grab Generator Lorry Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering Plant Excavator/Loader, Wheeled/Tracked Bar Bender and Cutter Concrete Lorry Mixer	EPD-09560 CNP044 CNP047 CNP069 CNP103 CNP142 BS D7-114 CNP162 EPD-09560 CNP021 CNP044	99 109 109 105 95 105 101 105 99 90	60 80 70 100 70 70 90	-1 -2 0 -2 -2 -2 0 -2 -2 -2	108 103 95 103 99	1 1 1 1	108 103 95 103 99 105 97 88 107	190 190 190 190 190 190	-54 -54 -54 -54 -54 -54 -54 -54 -54	3 3 3 3 3 3	-10 -5 -10 -5 -5 -10 -5 0	47 48 34 48 44 44 41 38 51	52.7
S34	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Diaphragm Walls Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation	Jun-21 Jul 2021 - Oct 2021	Bored Piling Crane mounted auger Excavator/Loader, Wheeled/Tracked Concrete Lorry Mixer Concrete pump Dump Truck with Grab Generator Lorry Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering Plant Excavator/Loader, Wheeled/Tracked	EPD-09560 CNP044 CNP047 CNP069 CNP103 CNP142 BS D7-114 CNP162 EPD-09560	99 109 109 105 95 105 101 105	60 80 70 100 70 70 90 60	-1 -2 0 -2 -2 0	108 103 95 103 99 105 97 88	1 1 1 1 1	108 103 95 103 99 105 97 88	190 190 190 190 190 190 190 190	-54 -54 -54 -54 -54 -54	3 3 3 3 3 3 3	-10 -5 -10 -5 -5 -10 -5	47 48 34 48 44 44 44	

Worksite	Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on- time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicte Noise Level for each group, dB(A)
S35	Demolish Multi-storey Carpark Buildking (remaining part)	Mar 2023 - May 2023	Breaker, Excavator Mounted (Hydraulic) Dump Truck with Grab Concrete crusher, excavator mounted Forklift	BS D8-13 CNP069 CNP055 XRL - HK Section EIA	110 105 103 104	80 70 80 20	-1 -2 -1 -7	109 103 102 97	1 2 2 2	109 106 105 100	265 265 265 265	-56 -56 -56	3 3 3	-5 -5 -5	51 48 47 42	59
		May 2023	Concrete Core Saw, concrete Excavator/Loader, Wheeled/Tracked Breaker, Excavator Mounted (Hydraulic) Dump Truck with Grab	CNP042 CNP203 EPD-09560 BS D8-13 CNP069	117 115 99 110 105	20 25 70 60 70	-7 -6 -2 -2 -2	110 109 97 108 103	2 2 2 1	113 112 100 108 103	265 265 135 115 115	-56 -56 -51 -49 -49	3 3 3 3	-5 -5 -5 -5 -5	55 54 48 57 52	
S36a	Demolish existing flyover	- Jul 2023 May 2023	Concrete crusher, excavator mounted Crane Mobile Saw, Wire Breaker, Excavator Mounted (Hydraulic) Dump Truck with Grab	CNP055 BS D7-114 CNP205 BS D8-13 CNP069	103 101 101 110 105	70 70 60 60 70	-2 -2 -2 -2 -2	101 99 99 108 103 101	1 1 1 1	101 99 99 108 103	115 115 115 205 205	-49 -49 -49 -54	3 3 3 3	-5 -5 -5 -5 -5	50 48 48 52 47	59.3
S36b	Demolish existing flyover	- Jul 2023	Concrete crusher, excavator mounted Crane Mobile Saw, Wire Concrete Lorry Mixer Dump Truck with Grab	CNP055 BS D7-114 CNP205 CNP044 CNP069	103 101 101 109 105	70 70 60 60 60	-2 -2 -2 -2 -2	101 99 99 107 103	1 1 1 2 2	101 99 99 110 106	205 205 205 205 205 80 80	-54 -54 -54 -46	3 3 3 3	-5 -5 -5 -5	45 43 43 62 58	54.3
	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Foundation and pier	Sep 2021 - Dec 2021	Generator Excavator/Loader, Wheeled/Tracked Crane Mobile Bar Bender and Cutter Concrete pump Bored Piling Crane mounted auger	CNP103 EPD-09560 BS D7-114 CNP021 CNP047 BS D4-37	95 99 101 90 109 111	100 50 60 70 70 80	-3 -2 -2 -2 -1	95 96 99 88 107 110	3 2 2 1 1 2	100 99 102 88 107 113	80 80 80 80 80	-46 -46 -46 -46 -46 -46	3 3 3 3 3 3	-10 -5 -5 0 -10 -10	47 51 54 45 54 60	65.8
S37a	Street to Ferry Street) - Bridge Deck	Aug 2023 - Oct 2023	Poker, Vibratory, Hand Held Crane Mobile Generator Bar Bender and Cutter Concrete pump	CNP173 BS D7-114 CNP103 CNP021 CNP047	102 101 95 90 109	50 60 100 70 70	-3 -2 0 -2 -2	99 99 95 88 107	3 2 3 1	104 102 100 88 107	80 80 80 80 80	-46 -46 -46 -46 -46	3 3 3 3 3	-5 -5 -10 0 -10	56 54 47 45 54	59.8
	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Surfacing, MJ, noise barrieres	Mar 2024 - Sep 2024	Asphalt Paver Road Roller Crane Mobile	EPD-01126 EPD-01183 BS D7-114	97 101	50 60 60	-3 -2 -2	95 99	1 1 2	101 95 102	80 80 80	-46 -46	3 3	-5 -5 -5	53 47 54	56.8
	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Foundation and pier		Concrete Lorry Mixer Dump Truck with Grab Generator Excavator/Loader, Wheeled/Tracked Crane Mobile Bar Bender and Cutter Concrete pump	CNP044 CNP069 CNP103 EPD-09560 BS D7-114 CNP021 CNP047	109 105 95 99 101 90 109	60 60 100 50 60 70 70	-2 -2 0 -3 -2 -2 -2	107 103 95 96 99 88 107	2 2 3 2 2 1	110 106 100 99 102 88 107	230 230 230 230 230 230 230 230	-55 -55 -55 -55 -55 -55 -55	3 3 3 3 3 3 3	-5 -5 -10 -5 -5 0 -10	53 49 38 42 45 36 45	56.6
S37b	Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Bridge Deck Construct Proposed GRF Flyover	Aug 2021 - Oct 2021	Bored Piling Crane mounted auger Poker, Vibratory, Hand Held Crane Mobile Generator Bar Bender and Cutter Concrete pump Asphalt Paver	BS D4-37 CNP173 BS D7-114 CNP103 CNP021 CNP047 EPD-01126	111 102 101 95 90 109 104	80 50 60 100 70 70 50	-1 -3 -2 0 -2 -2 -2	110 99 99 95 88 107	2 3 2 3 1 1	113 104 102 100 88 107	230 230 230 230 230 230 230 230	-55 -55 -55 -55 -55 -55 -55	3 3 3 3 3 3 3	-10 -5 -5 -10 0 -10	51 47 45 38 36 45 44	50.7
		Mar 2024 - Sep 2024	Road Roller Crane Mobile Bar Bender and Cutter	EPD-01183 BS D7-114 CNP021	97 101 90	60 60 70	-2 -2 -2	95 99 88	1 2 1	95 102 88	230 230 75	-55 -55 -46	3 3 3	-5 -5 0	38 45 46	47.6
S39	Construct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm Walls	Mar 2021 - Apr 2021	Concrete Lorry Mixer Concrete pump Dump Truck with Grab Generator Lorry Crane Mobile Pilling, Diaphragm Wall, Bentonite Filtering Plant Poker, Vibratory, Hand Held	CNP044 CNP047 CNP069 CNP103 CNP142 BS D7-114 CNP162 CNP173 EPD-09560	109 109 105 95 105 101 105	60 80 70 100 70 70 90	-2 -1 -2 0 -2 -2 0	107 108 103 95 103 99 105 100 97	1 1 1 1 1 1 1 1 1 1 1 1	107 108 103 95 103 99 105 100 97	75 75 75 75 75 75 75 75	-46 -46 -46 -46 -46 -46 -46 -46 -46	3 3 3 3 3 3 3	-5 -10 -5 -10 -5 -5 -10 -5 -5	59 56 56 42 56 52 52 52 49	64.2
	Construct Southern Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck	Mar-23	Excavator/Loader, Wheeled/Tracked Generator Lorry Excavator/Loader, Wheeled/Tracked Crane Mobile	CNP103 CNP142 EPD-09560 BS D7-114	99 95 105 99 101	60 70 90 70 70	-2 -2 0 -2 -2	93 105 97 99	1 1 1	93 105 97 99	75 75 75 75 75 75	-46 -46 -46 -46	3 3 3 3	-10 -5 -5 -5	41 57 50 52	58.9
S40	Construct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm Walls	Jan 2023 - Feb 2023	Bar Bender and Cutter Concrete Lory Mixer Concrete pump Dump Truck with Grab Generator Lory Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering Plant Poker, Vibratory, Hand Held Excavator/Loader, Wheeled/Tracked	CNP021 CNP044 CNP047 CNP069 CNP103 CNP142 BS D7-114 CNP162 CNP173 EPD-09560	90 109 109 105 95 105 101 105 102 99	70 60 80 70 100 70 70 90 60	-2 -2 -1 -2 0 -2 -2 -2 0	88 107 108 103 95 103 99 105 100 97	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	88 107 108 103 95 103 99 105 100 97	130 130 130 130 130 130 130 130 130 130	-50 -50 -50 -50 -50 -50 -50 -50 -50	3 3 3 3 3 3 3 3	0 -5 -10 -5 -10 -5 -5 -10	41 55 51 51 38 51 47 47 48 48	59.4
	Construct Southern Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck	Mar-23	Generator Lorry Excavator/Loader, Wheeled/Tracked Crane Mobile Bar Bender and Cutter	CNP103 CNP142 EPD-09560 BS D7-114 CNP021	95 105 99 101 90	70 90 70 70 70	-2 0 -2 -2 -2	93 105 97 99 88	1 1 1 1	93 105 97 99 88	130 130 130 130 130	-50 -50 -50 -50 -52	3 3 3 3	-10 -5 -5 -5 0	36 52 45 47 39	54.1
S41	Construct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm Walls	Jan 2023 - Feb 2023	Concrete Lorry Mixer Concrete pump Dump Truck with Grab Generator Lorry Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP044 CNP047 CNP069 CNP103 CNP142 BS D7-114 CNP162 CNP173	109 109 105 95 105 101 105	60 80 70 100 70 70 90	-2 -1 -2 0 -2 -2 -2	107 108 103 95 103 99 105	1 1 1 1 1 1 1 1	107 108 103 95 103 99 105	165 165 165 165 165 165 165 165	-52 -52 -52 -52 -52 -52 -52	3 3 3 3 3 3 3	-5 -10 -5 -10 -5 -5 -5 -10	52 49 49 36 49 45 45	57.3
	Construct Southern Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck	Mar-23	Poker, Vibratory, Hand Held Excavator/Loader, Wheeled/Tracked Generator Lorry Excavator/Loader, Wheeled/Tracked Crane Mobile Breaker, Excavator Mounted (Hydraulic)	EPD-09560 CNP103 CNP142 EPD-09560 BS D7-114 BS D8-13	99 95 105 99 101 110	60 60 70 90 70 70 70	-2 -2 -2 0 -2 -2 -2	97 93 105 97 99 108	1 1 1 1 1	100 97 93 105 97 99 108	165 165 165 165 165 165	-52 -52 -52 -52 -52 -52 -52 -50	3 3 3 3 3 3	-5 -5 -10 -5 -5 -5 -5	45 42 34 50 43 45 56	52.0
S42	Demolish special clinic extension building	Aug 2020 - Dec 2020	Dump Truck with Grab Concrete crusher, excavator mounted Crane Mobile Saw, Wire Generator	CNP069 CNP055 BS D7-114 CNP205 CNP103	105 103 101 101 95	70 90 70 70 100	-2 0 -2 -2 0	103 103 99 99 95	2 2 2 2	108 106 102 102 98	130 130 130 130 130	-50 -50 -50 -50 -50	3 3 3 3 3	-5 -5 -5 -10	56 53 50 50 41	60.9
S43	Excavation of Tunnel Tubes (under cover of traffic deck) Construct Southern Dwall & Dwall	Dec 2020 - Jan 2021, May 2023 - Jul 2023	Generator Excavator/Loader, Wheeled/Tracked Rock drill, crawler mounted (pneumatic) Ventilation Fan Water Pump, Submersible (Electric) Generator	CNP103 EPD-09560 SIL EIA CNP241 CNP283 CNP103	95 99 108 108 85 95	100 80 80 90 100 100	0 -1 -1 0 0	95 98 107 108 85 95	10 5 5 10 12 3	105 105 114 118 96 100	45 45 45 45 45 50	-41 -41 -41 -41 -41 -42	3 3 3 3 3 3	-20 -20 -20 -15 -20 -10	47 47 56 64 38 51	65.2
	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting	Apr-20 Apr-20	Lorry Crane Mobile Bored Piling Crane mounted auger Excavator/Loader, Wheeled/Tracked Concrete Lorry Mixer Concrete pump	CNP142 BS D7-114 BS D4-37 EPD-09560 CNP044 CNP047	105 101 111 99 109 109	70 70 70 70 60 80	-2 -2 -2 -2 -2 -1	103 99 109 97 107 108	1 1 3 1 2	103 99 114 97 110 108	85 85 85 85 85 85	-47 -47 -47 -47 -47	3 3 3 3 3	-5 -5 -10 -5 -5 -10	54 51 61 49 61 54	62.4
S44	Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls	May 2020 - Jun 2020	Dump Truck with Grab Generator Lorry Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP069 CNP103 CNP142 BS D7-114 CNP162	105 95 105 101 105	70 100 70 70 90	-2 0 -2 -2 0	103 95 103 99 105	1 4 1 1	103 101 103 99 108	85 85 85 85 85	-47 -47 -47 -47	3 3 3 3	-5 -10 -5 -5 -10	55 47 55 51 54	60.4
	Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls	Jul-20	Excavator/Loader, Wheeled/Tracked Bar Bender and Cutter Concrete Lorry Mixer Concrete pump Generator	EPD-09560 CNP021 CNP044 CNP047 CNP103	99 90 109 109 95	60 70 60 80 70	-2 -2 -2 -1 -1	97 88 107 108 93	1 1 2 1	97 88 110 108 93	85 85 85 85 85	-47 -47 -47 -47 -47	3 3 3 3	-5 0 -5 -10	48 45 61 54 40	62.1
	Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck	Aug-20	Excavator/Loader, Wheeled/Tracked Crane Mobile	CNP103 CNP142 EPD-09560 BS D7-114	105 99 101	90 70 70	-2 0 -2 -2	105 97 99	1 2	108 97 102	85 85 85	-47 -47 -47	3 3	-10 -5 -5 -5	59 49 54	60.5

Worksite	Activity	Period	PME Generator	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on- time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level for each group, dB(A)
	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post	Jan-21	Lorry Crane Mobile Bored Piling Crane mounted auger Excavator/Loader, Wheeled/Tracked	CNP142 BS D7-114 BS D4-37 EPD-09560	105 101 111 99	60 70 70 70	-2 -2 -2 -2	103 99 109 97	1 1 3 1	103 99 114 97	130 130 130 130	-50 -50 -50 -50	3 3 3 3	-5 -5 -10 -5	51 47 57 45	58.5
	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting	Jan-21	Concrete Lorry Mixer Concrete pump Dump Truck with Grab Generator	CNP044 CNP047 CNP069 CNP103	109 109 105 95	60 80 70 100	-2 -1 -2 0	107 108 103 95	2 1 1 4	110 108 103 101	130 130 130 130	-50 -50 -50 -50	3 3 3 3	-5 -10 -5 -10	58 51 51 44	58.3
S45	Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls	Feb 2021 - Mar 2021	Lorry Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP142 BS D7-114 CNP162	105 101 105	70 70 90	-2 -2 0	103 99 105 97	1 2	103 99 108	130 130 130	-50 -50 -50	3 3	-5 -5 -10	51 47 50	56.7
	Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls	Apr-21	Excavator/Loader, Wheeled/Tracked Bar Bender and Cutter Concrete Lorry Mixer Concrete pump Generator	CNP021 CNP044 CNP047 CNP103	99 90 109 109 95	60 70 60 80 70	-2 -2 -2 -1 -2	88 107 108 93	1 2 1	97 88 110 108 93	130 130 130 130 130	-50 -50 -50 -50 -50	3 3 3 3	-5 0 -5 -10	45 41 58 51 36	58.4
	Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck	Dec-22	Excavator/Loader, Wheeled/Tracked Crane Mobile Generator	CNP142 EPD-09560 BS D7-114 CNP103	105 99 101 95	90 70 70 100	0 -2 -2 0	105 97 99 95	2 1 2 4	108 97 102 101	130 130 130 65	-50 -50 -50 -44	3 3 3 3	-5 -5 -5 -20	55 45 50 40	56.8
S46a	Excavation of Tunnel Tubes (under cover of traffic deck)	Mar 2023 - Jun 2023	Excavator/Loader, Wheeled/Tracked Rock drill, crawler mounted (pneumatic) Ventilation Fan Water Pump, Submersible (Electric)	EPD-09560 SIL EIA CNP241 CNP283	99 108 108 85	80 80 90 100	-1 -1 0	98 107 108 85	2 2 4 4	101 110 114 91	65 65 65 65	-44 -44 -44	3 3 3	-20 -20 -15 -20	40 49 57 30	58.0
S46b	Excavation of Tunnel Tubes (under cover of traffic deck)	Nov 2023 - Feb 2024	Generator Excavator/Loader, Wheeled/Tracked Rock drill, crawler mounted (pneumatic) Ventilation Fan Water Pump, Submersible (Electric)	CNP103 EPD-09560 SIL EIA CNP241 CNP283	95 99 108 108 85	100 80 80 90 100	0 -1 -1 0	95 98 107 108 85	3 2 2 3 4	100 101 110 112 91	80 80 80 80	-46 -46 -46 -46	3 3 3 3	-20 -20 -20 -15 -20	37 38 47 54 28	55.2
S46c	Excavation of Tunnel Tubes (under cover of traffic deck)	Jan 2024 - Apr 2024	Generator Excavator/Loader, Wheeled/Tracked Rock drill, crawler mounted (pneumatic) Ventilation Fan	CNP103 EPD-09560 SIL EIA CNP241	95 99 108 108	100 80 80 90	0 -1 -1 0	95 98 107 108	3 2 1 3	100 101 107 112	155 155 155 155	-52 -52 -52 -52	3 3 3 3	-20 -20 -20 -15	31 32 38 49	49.1
	Underpinning of Existing Bridges (under cover of traffic deck)	Jun 2020 - Dec 2020	Water Pump, Submersible (Electric) Generator Bar Bender and Cutter Concrete Lorry Mixer Concrete Lorry Mixer Concrete pump Crane Mobile Excavator/Loader, Wheeled/Tracked Ventilation Fan	CNP283 CNP103 CNP021 CNP044 CNP047 BS D7-114 EPD-09560 CNP241	85 95 90 109 109 101 99 108	100 100 70 60 80 70 60 90	0 0 -2 -2 -1 -2 -2 0	85 95 88 107 108 99 97 108	4 1 1 1 1 1 1	91 95 88 107 108 99 97 108	155 45 45 45 45 45 45 45 45	-52 -41 -41 -41 -41 -41 -41	3 3 3 3 3 3	-20 -20 -20 -20 -20 -20 -20 -20	22 37 30 49 50 41 39 54	56.8
S47a	Construction of the Cut and Cover Tunnel (under cover of traffic deck)	Jan 2024 - Oct 2024	Water Pump, Submersible (Electric) Bar Bender and Cutter Concrete Lorry Mixer Concrete pump Generator Crane Mobile Poker, Vbratory, Hand Held Excavator/Loader, Wheeled/Tracked Ventilation Fax	CNP283 CNP021 CNP044 CNP047 CNP103 BS D7-114 CNP173 EPD-09560 CNP241	85 90 109 109 95 101 102 99 108	100 60 60 80 100 70 70 70 90	0 -2 -2 -1 0 -2 -2 -2	85 88 107 108 95 99 100 97	1 1 1 1 2 1 1 1 1 4	85 88 107 108 98 99 100 97	45 45 45 45 45 45 45 45 45 45	-41 -41 -41 -41 -41 -41 -41 -41	3 3 3 3 3 3 3	-20 -20 -20 -20 -20 -20 -20 -20 -20 -15	27 30 49 50 40 41 42 39 60	61.3
	Underpinning of Existing Bridges (under cover of traffic deck)	Oct 2020 - Apr 2021	Water Pump, Submersible (Electric) Generator Bar Bender and Cutter Concrete Lorry Mixer Concrete Pump Crane Mobile Excavator/Loader, Wheeled/Tracked Ventilation Fa.	CNP283 CNP103 CNP021 CNP044 CNP047 BS D7-114 EPD-09560 CNP241	85 95 90 109 109 101 99	100 100 70 60 80 70 60	0 0 -2 -2 -1 -2 -2 0	85 95 88 107 108 99 97 108	1 1 1 1 1 1 1 1 1 1	91 95 88 107 108 99 97	45 95 95 95 95 95 95 95	-41 -48 -48 -48 -48 -48 -48 -48	3 3 3 3 3 3 3 3	-20 -20 -20 -20 -20 -20 -20 -20 -15	33 30 24 42 43 35 32 48	50.3
S47b	Construction of the Cut and Cover Tunnel (under cover of traffic deck)	Jan 2024 - Oct 2024	Water Pump, Submersible (Electric) Bar Bender and Cutter Concrete Lorry Mixer Concrete Lorry Mixer Concrete pump Generator Crane Mobile Poker, Vibratory, Hand Held Excavator/Loader, Wheeled/Tracked Vertillation Fax	CNP283 CNP021 CNP044 CNP047 CNP103 BS D7-114 CNP173 EPD-09560 CNP241	85 90 109 109 95 101 102 99 108	100 60 60 80 100 70 70 70 90	0 -2 -2 -1 0 -2 -2 -2	85 88 107 108 95 99 100 97 108	1 1 1 1 2 1 1 1 4	85 88 107 108 98 99 100 97 114	95 95 95 95 95 95 95 95 95 95	-48 -48 -48 -48 -48 -48 -48 -48 -48	3 3 3 3 3 3 3 3	-20 -20 -20 -20 -20 -20 -20 -20	20 23 42 43 33 35 36 33 54	54.8
	Underpinning of Existing Bridges (under cover of traffic deck)	May 2020 - Sep 2020	Water Pump, Submersible (Electric) Generator Bar Bender and Cutter Concrete Lorry Mixer Concrete pump Crane Mobile Excavatior/Loader, Wheeled/Tracked Ventilation Fan Water Pump, Submersible (Electric)	CNP283 CNP103 CNP021 CNP044 CNP047 BS D7-114 EPD-09560 CNP241 CNP283	85 95 90 109 109 101 99 108 85	100 70 60 80 70 60 90	0 0 -2 -2 -1 -1 -2 -2 0 0	85 95 88 107 108 99 97 108 85	4 1 1 1 1 1 1 1 1	91 95 88 107 108 99 97 108 85	155 155 155 155 155 155 155 155	-52 -52 -52 -52 -52 -52 -52 -52 -52	3 3 3 3 3 3 3 3	-20 -20 -20 -20 -20 -20 -20 -15 -20	26 26 20 38 39 31 28 44	46.1
S47c	Construction of the Cut and Cover Tunnel (under cover of traffic deck)		Bar Bender and Cutter Concrete Lorry Mixer Concrete pump Generator Crane Mobile Poker, Vibratory, Hand Held Excavator/Loader, Wheeled/Tracked Ventilation Fan Water Pump, Submersible (Electric)	CNP021 CNP044 CNP047 CNP103 BS D7-114 CNP173 EPD-09560 CNP241 CNP283	90 109 109 95 101 102 99 108 85	60 80 100 70 70 70 90 100	-2 -2 -1 0 -2 -2 -2 -2 0	88 107 108 95 99 100 97 108 85	1 1 2 1 1 1 4 4	88 107 108 98 99 100 97 114 91	155 155 155 155 155 155 155 155 155	-52 -52 -52 -52 -52 -52 -52 -52 -52 -52	3 3 3 3 3 3 3 3 3	-20 -20 -20 -20 -20 -20 -20 -15 -20	19 38 39 29 31 32 29 50 22	50.6
S49	Underpinning of Existing Bridges (under cover of traffic deck)	Feb 2021 - Nov 2021	Generator Bar Bender and Cutter Concrete Lorry Mixer Concrete pump Crane Mobile Excavator/Loader, Wheeled/Tracked Ventilation Fan Water Pump, Submersible (Electric)	CNP103 CNP021 CNP044 CNP047 BS D7-114 EPD-09560 CNP241 CNP283	95 90 109 109 101 99 108 85	100 70 60 80 70 60 90 100	0 -2 -2 -1 -2 -2 0	95 88 107 108 99 97 108 85	1 1 1 1 1 1 1 1 1	95 88 107 108 99 97 108 85	40 40 40 40 40 40 40 40	-40 -40 -40 -40 -40 -40 -40 -40	3 3 3 3 3 3 3 3	-20 -20 -20 -20 -20 -20 -20 -15 -20	38 31 50 51 42 40 56 28	57.9
S50a	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)	Dec 2021 - May 2022	Concrete Lorry Mixer Concrete pump Generator Lorry Crane Mobile Bored Pling Crane mounted auger Excavator/Loader, Wheeled/Tracked Compactor, vibratory Dump Truck with Grab	CNP044 CNP047 CNP103 CNP142 BS D7-114 BS D4-37 EPD-09560 CNP050 CNP069	109 109 95 105 101 111 99 105 105	60 80 100 70 60 80 70 70	-2 -1 0 -2 -2 -1 -1 -2 -2	107 108 95 103 99 110 97 103 103	2 1 3 2 3 2 2 2 3	110 108 100 106 104 113 100 108	75 75 75 75 75 75 75 75 75 75	-46 -46 -46 -46 -46 -46 -46 -46 -46	3 3 3 3 3 3 3 3	-5 -10 -10 -5 -5 -10 -5 -5 -5	62 56 47 59 56 61 53 61 56	67.9
	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping Street	Mar 2023 - May 2023	Crane Mobile Generator Lorry	BS D7-114 CNP103 CNP142	101 95 105	70 100 70	-2 0 -2	99 95 103	1 1	99 95 103	75 75 75	-46 -46 -46	3 3 3	-5 -10 -5	52 42 56	57.5
S50b	Foundation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)	Jul 2021 - Jul 2022	Concrete Lorry Mixer Concrete pump Generator Lorry Crane Mobile Bored Pling Crane mounted auger Excavator/Loader, Wheeled/Tracked Compactor, vibratory Dump Truck with Grab	CNP044 CNP047 CNP103 CNP142 BS D7-114 BS D4-37 EPD-09560 CNP050 CNP069	109 109 95 105 101 111 99 105 105	60 80 100 70 60 80 70 70	-2 -1 0 -2 -2 -1 -1 -2 -2 -2	107 108 95 103 99 110 97 103 103	2 1 3 2 3 2 2 2 3 1	110 108 100 106 104 113 100 108	55 55 55 55 55 55 55 55 55	-43 -43 -43 -43 -43 -43 -43 -43 -43	3 3 3 3 3 3 3 3 3	-5 -10 -10 -5 -5 -10 -5 -5 -5	65 58 50 62 59 63 56 63 59	70.6
	Construct noise barriers and noise enclosure on GRF Flyover (Ferry Street Section) and along Ting Ping Street	Jun 2023 - Oct 2023	Crane Mobile Generator Lorry	BS D7-114 CNP103 CNP142	101 95 105	70 100 70	-2 0 -2	99 95 103	1 1 1	99 95 103	55 55 55	-43 -43 -43	3 3 3	-5 -10 -5	55 45 59	60.2

Worksite	Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on- time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level for each group, dB(A)
			Concrete Lorry Mixer Concrete pump	CNP044 CNP047	109	60 80	-2 -1	107 108	1	107	16	-32 -32	3	-5 -10	72 69	
	Foundation (west side) for noise		Generator Lorry	CNP103 CNP142	95 105	100 70	0	95 103	3	100	16 16	-32	3	-10 -10	60 69	
	enclosure on GRF Flyover (Ferry Street Section)	Mar 2023 - May 2023	Crane Mobile Bored Piling Crane mounted auger	BS D7-114 BS D4-37	101	60 80	-2 -1	99	2	102	16 16	-32 -32 -32	3	-5 -10	67 74	79.4
S50c	Street Section)	-	Excavator/Loader, Wheeled/Tracked Compactor, vibratory	EPD-09560 CNP050	99	70 50	-2 -3	97	2	100	16	-32 -32	3	-10 -5 -5	66 71	
	Construct noise barriers and noise		Dump Truck with Grab	CNP069	105	70	-2	103	1	103	16	-32	3	-5	69	
	enclosure on GRF Flyover (Ferry	Jun 2023 - Nov 2023	Crane Mobile Generator	BS D7-114 CNP103	101 95	70 100	-2 0	99 95	1 1	99 95	16 16	-32 -32	3	-5 -10	65 56	70.7
	Street Section) and along Ting		Asphalt Paver	CNP142 EPD-01126	105 104	70 80	-2 -1	103 103	1	103 103	16 25	-32 -36	3	-5 -5	69 65	
			Concrete Lorry Mixer Concrete pump	CNP044 CNP047	109	60 80	-2 -1	107 108	1	107 108	25 25	-36 -36	3	-5 -10	69 65	
	Road works for re-align Ferry	Feb 2024 -	Dump Truck with Grab Generator	CNP069 CNP103	105 103	70 100	-2 0	103 103	1	103 103	25 25	-36 -36	3	-5 -10	65 60	
S50d	Street at-grade road	Apr 2024	Poker, Vibratory, Hand Held Road Roller	CNP173 EPD-01183	102 97	70 80	-2 -1	100 96	1	100 96	25 25	-36 -36	3	-10 -5	57 58	74.3
			Bored Piling Crane mounted auger	BS D4-37	111	80	-1 -2	110	1	110 97	25	-36	3	-10	67	
			Excavator/Loader, Wheeled/Tracked Crane Mobile	EPD-09560 BS D7-114	99 101	70 70	-2	97 99	1	99	25 25	-36 -36	3	-5 -5	59 61	
	Demolish the Existing Ferr Street		Breaker, Excavator Mounted (Hydraulic) Dump Truck with Grab	BS D8-13 CNP069	110 105	50 70	-3 -2	107 103	1 2	107 106	65 65	-44 -44	3	-5 -5	61 60	
S51	Subway	Dec-20	Concrete crusher, excavator mounted Crane Mobile	CNP055 BS D7-114	103	80 70	-1 -2	102 99	1	102 99	65 65	-44 -44	3	-5 -5	56 53	64.8
			Saw, Wire Dump Truck with Grab	CNP205 CNP069	101 105	70 70	-2 -2	99 103	1	99 103	65 65	-44 -44	3	-5 -5	53 57	
	Construct Northern Dwall & Traffic		Generator Lorry	CNP103 CNP142	95 105	100 70	-2	95 103	1	95 103	65 65	-44 -44	3	-10 -5	44 57	
	Deck (cross road sections) - Excavation for Diaphragm Walls	Oct 2021 - Nov 2021	Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering	BS D7-114	101	70	-2	99	1	99	65	-44	3	-5	53	62.1
	Excavation for Diaphragin wais		Plant Excavator/Loader, Wheeled/Tracked	CNP162 EPD-09560	105 99	90 60	-2	105 97	1	105 97	65 65	-44 -44	3	-10 -5	53 51	
S52	Construct Northern Dwall & Traffic	Sep 2021 -	Bar Bender and Cutter	CNP021	90	70	-2	88	1	88	65	-44	3	0	47	00.0
	Deck (cross road sections) - Concreting for Diaphragm Walls	Nov 2021	Concrete Lorry Mixer Concrete pump	CNP044 CNP047	109 109	60 80	-2 -1	107 108	1	107 108	65 65	-44 -44	3	-5 -10	61 57	62.2
	Construct Northern Dwall & Traffic Deck (cross road sections) -	Dec 2021	Generator Lorry	CNP103 CNP142	95 105	70 90	-2 0	93 105	1	93 105	65 65	-44 -44	3	-10 -5	42 58	60.1
	Temporary Traffic Deck	500 2021	Excavator/Loader, Wheeled/Tracked Crane Mobile	EPD-09560 BS D7-114	99 101	70 70	-2 -2	97 99	1	97 99	65 65	-44 -44	3	-5 -5	51 53	
			Dump Truck with Grab Generator	CNP069 CNP103	105 95	70 100	-2 0	103 95	1	103 95	115 115	-49 -49	3	-5 -10	52 39	
	Construct Northern Dwall & Traffic Deck (cross road sections) -	Oct 2021 -	Lorry Crane Mobile	CNP142 BS D7-114	105 101	70 70	-2 -2	103 99	1	103 99	115 115	-49 -49	3	-5 -5	52 48	57.1
	Excavation for Diaphragm Walls	Nov 2021	Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	115	-49	3	-10	48	
S53	Construct Northern Dwall & Traffic		Excavator/Loader, Wheeled/Tracked Bar Bender and Cutter	EPD-09560 CNP021	99 90	60 70	-2 -2	97 88	1	97 88	115 115	-49 -49	3	-5 0	46 42	
	Deck (cross road sections) -	Sep 2021 - Nov 2021	Concrete Lorry Mixer Concrete pump	CNP044 CNP047	109	60 80	-2 -1	107	1	107	115	-49 -49	3	-5 -10	56 52	57.2
	Concreting for Diaphragm Walls Construct Northern Dwall & Traffic		Generator	CNP103	95	70	-2	93	1	93	115	-49	3	-10	37	
	Deck (cross road sections) - Temporary Traffic Deck	Dec 2021	Lorry Excavator/Loader, Wheeled/Tracked	CNP142 EPD-09560	105 99	90 70	-2	105 97	1	105 97	115 115	-49 -49	3	-5 -5	53 46	55.2
			Crane Mobile Asphalt Paver	BS D7-114 EPD-01126	101 104	70 80	-2 -1	99 103	1	99 103	115 75	-49 -46	3	-5 -5	48 56	
	Reinstate the affected roads and	Nov 2023 -	Concrete Lorry Mixer Generator	CNP044 CNP103	109 95	60 100	-2 0	107 95 100	1	107 95 103	75 75	-46 -46	3	-5 -10	59 42	
	footpaths	Feb 2024	Poker, Vibratory, Hand Held Road Roller	CNP173 EPD-01183	102 97	60 70	-2 -2	100 95	1	103 95	75 75	-46 -46	3	-10 -5	50 48	62.2
			Excavator/Loader, Wheeled/Tracked Crane Mobile	EPD-09560 BS D7-114	99 101	70 70	-2 -2	97 99	1	97 99	75 75	-46 -46	3	-5 -5	50 52	
S55a			Asphalt Paver Concrete Lorry Mixer	EPD-01126 CNP044	104 109	80 60	-1 -2	103 107	1 2	103 110	75 75	-46 -46	3	-5 -5	56 62	
	Road works for Section between	Mar 2024 -	Concrete pump Generator	CNP047 CNP103	109	80 100	-1 0	108	1 2	108 98	75 75	-46 -46	3	-10 -10	56 46	
	Ferry Street and Nathan Road	Nov 2024	Poker, Vibratory, Hand Held Road Roller	CNP173 EPD-01183	102 97	70 80	-2 -1	100 96	2	103 96	75 75	-46 -46	3	-10 -5	51 49	64.6
			Excavator/Loader, Wheeled/Tracked	EPD-09560 BS D7-114	99	70 70	-2 -2	97 99	1	97 99	75 75	-46 -46	3	-5 -5	50 52	
			Crane Mobile Asphalt Paver	EPD-01126	104	80	-1	103	1	103	175	-53	3	-5	48	
	Reinstate the affected roads and	Nov 2023 -	Concrete Lorry Mixer Generator	CNP044 CNP103	109 95	100	-2 0	107 95	1	107 95	175 175	-53 -53	3	-5 -10	52 35	
	footpaths	Feb 2024	Poker, Vibratory, Hand Held Road Roller	CNP173 EPD-01183	102 97	60 70	-2 -2	100 95	1	100 95	175 175	-53 -53	3	-10 -5	40 41	54.7
			Excavator/Loader, Wheeled/Tracked Crane Mobile	EPD-09560 BS D7-114	99 101	70 70	-2 -2	97 99	1	97 99	175 175	-53 -53	3	-5 -5	43 45	
S55b			Asphalt Paver Concrete Lorry Mixer	EPD-01126 CNP044	104	80 60	-1 -2	103 107	1	103 107	175 175	-53 -53	3	-5 -5	48 52	-
	Road works for Section between	Mar 2024 -	Concrete pump Generator	CNP047 CNP103	109 95	80 100	-1 0	108 95	1	108 95	175 175	-53 -53	3	-10 -10	48 35	55.6
	Ferry Street and Nathan Road		Poker, Vibratory, Hand Held Boad Boller	CNP173 EPD-01183	102 97	70 80	-2 -1	100 96	1	100 96	175 175	-53 -53	3	-10 -5	41 41	55.6
			Excavator/Loader, Wheeled/Tracked Crane Mobile	EPD-09560 BS D7-114	99 101	70 70	-2 -2	97 99	1	97 99	175 175	-53 -53	3	-5 -5	43 45	
			Bar Bender and Cutter Concrete Lorry Mixer	CNP021 CNP044	90 109	60	-2	88 107	1 2	88 110	50 50	-42 -42	3	-20 -20	29 51	
			Concrete pump	CNP047 CNP103	109	80 100	-1 0	108 95	1	108	50 50	-42 -42	3	-20 -20	49 41	
	Construction of the Cut and Cover Tunnel (under cover of traffic deck)	Jul 2023 - Aug 2024	Generator Crane Mobile	BS D7-114	95 101	70	-2	99	3	99	50	-42	3	-20	40	62.1
S56a	,		Poker, Vibratory, Hand Held Excavator/Loader, Wheeled/Tracked	CNP173 EPD-09560	102 99	70 70	-2 -2	100 97	1	100 97	50 50	-42 -42	3	-20 -20	41 38	
			Ventilation Fan Water Pump, Submersible (Electric)	CNP241 CNP283	108 85	90 100	0	108 85	6	115 93	50 50	-42 -42	3	-15 -20	61 34	
	Backfilling on Top of Cut and Cover Tunnel (under cover of		Compactor, vibratory Generator	CNP050 CNP103	105 95	70 100	-2 0	103 95	1 2	103 98	50 50	-42 -42	3	-20 -20	44 39	47.4
	traffic deck)		Excavator/Loader, Wheeled/Tracked Road Roller	EPD-09560 EPD-01183	99 97	70 80	-2 -1	97 96	2	100 96	50 50	-42 -42	3	-20 -20	41 37	47.4
			Bar Bender and Cutter Concrete Lorry Mixer	CNP021 CNP044	90 109	60 60	-2 -2	88 107	1 2	88 110	135 135	-51 -51	3	-20 -20	20 42	
	On the state of the Original State of the Or	Necessar	Concrete pump Generator	CNP047 CNP103	109	70 100	-2 0	107 95	1 3	107	135 135	-51 -51	3	-20 -20	40 32	1
	Construction of the Cut and Cover Tunnel (under cover of traffic deck)		Crane Mobile Poker, Vibratory, Hand Held	BS D7-114 CNP173	101	70 70	-2	99	1	99	135 135	-51	3	-20	32 33	53.0
S56b			Excavator/Loader, Wheeled/Tracked Ventilation Fan	EPD-09560 CNP241	99	70 70 80	-2 -2 -1	97 107	1 6	97	135	-51 -51 -51	3	-20 -20 -15	30 52	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	6	93	135	-51	3	-20	25	
	Backfilling on Top of Cut and Cover Tunnel (under cover of	Apr, Jun, Aug & Sep	Compactor, vibratory Generator	CNP050 CNP103	105 95	70 100	-2 0	103 95	2	103 98	135 135	-51 -51	3	-20 -20	36 30	38.8
	traffic deck)	2024	Excavator/Loader, Wheeled/Tracked Road Roller	EPD-09560 EPD-01183	99 97	70 80	-2 -1	97 96	2	100 96	135 135	-51 -51 -52	3	-20 -20 -5	33 28	50.0
	Construction of Temporary Maternal and Child Health Centre -	Apr 2018 - Jun 2018	Poker, Vibratory, Hand Held Excavator/Loader, Wheeled/Tracked	CNP173 EPD-09560	102 99	50 70	-3 -2	99 97	1	99 97	160 160	-52	3	-5	45 43	47.2
			Bar Bender and Cutter Concrete Lorry Mixer	CNP021 CNP044	90	60 50	-2	88 106	2	91 109	160 160	-52 -52	3	0 -5	42 55	
S58	Construction of Temporary Maternal and Child Health Centre -	Jul 2018 -	Concrete pump Generator	CNP047 CNP103	109	70 100	-2 0	107 95	1 2	107 98	160 160	-52 -52	3	-10 -10	48 39	57.2
		D 0040	301013101			100					100	-JE		-10		91.6
	Superstructure	Dec 2018	Crane Mobile Saw, Circular Wood	BS D7-114 BS D7-79	101	50 50	-3 -3	98 100	1	98 103	160 160	-52 -52	3	-5 -5	44 49	

	2018	2019	2020		2021	2022	2023		2024
Activity Jan Feb Mar Ap Construct Dwall and Traffic Deck - Piling for King Post	May Jun Jul Aug Sep Oct Nov	Dec Jan Feb Mar Apr May Jun Jul Au	g Sep Oct Nov Dec Jan Feb Mar Apr May Jun :	al Aug Sep Oct Nov Dec Jan	Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec	Jan Feb Mar Apr May Jun Jul Aug Sep Oct	Nov Dec Jan Feb Mar Apr May Jun Jul Aug	Sep Oct Nov Dec Jan Feb Mar Apr 1	May Jun Jul Aug Sep C
Construct Dwall and Traffic Deck - Diaphragm Walls	59.3 59.3 59.3 59.3								
Construct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls	57.5	57.5 57.5							
Construct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls		57.6	+++++++++++++++++++++++++++++++++++++++						
Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck	61.3 61.3 61.3 61.3 61.3 61.3 61.3	55.6	+ + + + + + + + + + + + + + + + + + + +	 				, 	
Construction of Methodone Clinic 61.: Decant and demolish existing Jude Market	613 613 613 613 613 613 613	51.3 61.3		56.0				,	-
Decant and demolish existing Jade Market				56.9					
Construction of Temporary Library & Temporary Jade Market - Foundation		58.0 58.0 58.0 58	0 58.0 58.0						
Construction of Temporary Library & Temporary Jade Market - Superstructure			55.7 55.7 55.7 55.7						
Construction of Western Access Shaft - Ex cavation of Diaphragm Walls 53.1									
Construct Western Access Shaft - Concreting of Diaphragm Wall	53.8								
Construct Western Access Shaft - Soil Excavation of Access Shaft	+ + + + + + + + +		53.3					. 	
Construct Western Access Shaft - Rock Excavation of Access Shaft			63.8 63.8 63.8					,	
Construct Western Access Shaft - Cast Bottom Slab Removal of Excavated Material through West End Portal			626 626 626						
Construct Middle Dwall and Traffic Deck - Piling for King Post			62.4						
Construct Middle Dwall and Traffic Deck - Diaphragm Walls			62.1 62.1 62.1 62.1 62.1						
Construct Middle Dwall and Traffic Deck - Temporary Traffic Deck			58.3						
Construct Middle Dwall and Traffic Deck - Piling for King Post			5	5.4					$\overline{}$
Construct Middle Dwall and Traffic Deck - Diaphragm Walls	+ $+$ $+$ $+$ $+$ $+$ $+$		++++++++++	+++++	56.1 56.1 56.1 56.1				++++
Construct Middle Dwall and Traffic Deck - Temporary Traffic Deck			++++++++++	+++++		52.3		,	++++
Accant Library and Government Offices in MSCB	+++++	++++++	++++++++++	+++++				, - 	++++
Aemolish Multi-storey Carpark Buildking (partially) onstruction Middle Dwall and Traffic Deck (cross road sections) - Diaphragm Valle			+++++++++++++++++++++++++++++++++++++++		29.4 29.4 29.4 59.4			,	
Valls Valls Valls Tonstruction Middle Dwall and Traffic Deck (cross read sections) - Temporary Taffic Deck					1500.4	54.8		,	
Praffic Deck Construction Middle Dwall and Traffic Deck (cross road sections) - Diaphragm Walls					57.3				
Valls Construction Middle Dwall and Traffic Deck (cross road sections) - Temporary Traffic Deck						52.0			
Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary								, , , , , , , , , , , ,	
Deck (From Reclamation Street to Ferry Street) - Foundation and pier	+ $+$ $+$ $+$ $+$ $+$ $+$		66.2 6	52 66.2 66.2 66.2 66.2 66.2					++++
Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary beck (From Reclamation Street to Ferry Street) - Bridge Deck								,	
eck (From Reclamation Street to Ferry Street) - Bridge Deck				+++++++++++++++++++++++++++++++++++++++		59.8 59.8	59.8	,	
Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary Deck (From Reclamation Street to Ferry Street) - Surfacing, MJ, noise barrieres								56.8 56.8 56.8 56.8 56.8 56.8	
Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary leck (From Temple Street to Reclamation Street) - Foundation and pier				57.4 57.4 57.4 57.4	57.4 57.4 57.4				
Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary								,	
Deck (From Temple Street to Reclamation Street)) - Bridge Deck	+ + + + + + + + +			 		51.5 51.5 51.5		,	
Construct Proposed GRF Flyover (two lanes) on Northern Side and the Temporary									
Deck (From Temple Street to Reclamation Street) - Surfacing, MJ, noise barrieres								70/1 70/1 48/4 48/4 48/4	
Diversion of Ferry Street Junction		65.3 65	3 65.3						
Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post			64.9						
Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for			65.2						
Diaphragm Walls Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting for			65.3 65.3 65.3 65.3						
Diaphragm Walls Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic			65.4	+++++				,	
Underpinning Works for YMT Police Station - Grouting		597 597 597 597	65.3						
Underpinning Works for YMT Police Station - Sokeet H Piling		61.5							
Underpinning Works for YMT Police Station - micro-piling		60	5 60.5 60.5 60.5 60.5 60.5 60.5						
Underpinning Works for YMT Police Station - excavation			58.2 58.2						
Underpinning Works for YMT Police Station - pipe piling			6	0.5 60.5 60.5 60.5 60.5 60.5 60.5	60.5 60.5				
Underpinning Works for YMT Police Station - tam grouting Underpinning Works for YMT Police Station - Construct underpinning beam and					59.7 59.7 59.7				
slab			+++++++++++++++++++++++++++++++++++++++	+++++	63.2 63.2 63.2				+
Decant YMT Police Station Construct Synthesis Decall & Decall Consider State State A Piling for King But	+++++		++++++++++	+++++			504	, - 	++++
onstruct Southern Dwaii & Dwaii Crossing Perry Street - Piling for King Post				 			35.4 58.8	,	++++
Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation for Suphringm Walls Suphringm Walls							58.8 58.8		
Singhragm Walls Onstruct Southern Dwall & Dwall Crossing Ferry Street - Concreting for Impairing Walls Onstruct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic							58.9 58.9		
Construct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic leck							56.8		
ionstruct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post							54.4		
onstruct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post onstruct Southern Dwall & Dwall Crossing Ferry Street - Excavation for			++++++++++				54.5		+
napringm waiis onstruct Southern Dwall & Dwall Crossing Ferry Street - Concreting for		++++++	++++++++++	+++++			53,1 53,1	53.1	
iaphragm Walls nestruct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic	+++++	++++++	++++++++++	+++++				53.5	++++
ck estruct Southern Dwall & Dwall Crossing Ferry Street - Piling for King Post			 	+++++	524			31.0	++++
					54.0			,	
nstruct Southern Dwall & Dwall Crossing Ferry Street - Grouting for King post nstruct Southern Dwall & Dwall Crossing Ferry Street - Excavation for sphragm Walls struct Southern Dwall & Dwall Crossing Ferry Street - Concreting for					52.7 52.7 52.7 52.7				
nstruct Southern Dwall & Dwall Crossing Ferry Street - Concreting for upbragm Walls instruct Southern Dwall & Dwall Crossing Ferry Street - Temporary Traffic				+	52.9				\bot
eck			++++++++++	+	50.8				+
emolish Multi-storey Carpark Buildking (remaining part)			+++++++++++++++++++++++++++++++++++++++	+++++			59.1 59.1 59.1		
Demolish existing flyover		++++++	++++++++++	+++++			59.3 59.3 59.3 54.3 54.3 54.3	,	
Demolish existing flyover Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Foundation and pier Construct Proposed GRF Flyover (the remain Part from Reclamation Street to	+++++	++++++	++++++++++	+++++	65.8 65.8 65.8 65.8		54.3 54.3 54.3	, - 	++++
Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Force Street, Bridge Dock			+++++++++++++++++++++++++++++++++++++++		65.8 65.8 65.8 65.8		59.8	50.8 50.8	
Ferry Street) - Bridge Deck Construct Proposed GRF Plyover (the remain Part from Reclamation Street to Ferry Street) - Strafaing, MI, noise burnieres Ferry Street) - Strafaing, MI, noise burnieres							39.8	39.8 39.8 56.8 56.8 5	56.8 56.8 56.8 56.8 56.8
Ferry Street) - Surfacing, MJ, noise burnieres Construct Proposed GRF Plyower (the remain Part from Reclamation Street to Ferry Street) - Foundation and pier Construct Proposed GRF Plyower (the remain Part from Reclamation Street to					56.6 56.6 56.6 56.6 56.6 56.6			300 300 3	200 200
Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Bridge Deck. Construct Proposed GRF Plyover (the remain Part from Reclamation Street to Construct Proposed GRF Plyover (the remain Part from Reclamation Street to					50.7 50.7 50.7				
Construct Proposed GRF Flyover (the remain Part from Reclamation Street to Ferry Street) - Surfacing, MJ, noise barrieres Construct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm								47.6 47.6	47.6 47.6 47.6 47.6 47.6
					64.2 64.2				

Activity Jan	Feb Mar Apr May	2018 Jun Jul Aug Sep Oc	Oct Nov Dec	Jan Feb	Mar Apr May Jun	2019 1 Jul Aug Sep	Oct Nov	Dec Jan Feb	o Mar Apr May	Jun Jul Aug	g Sep Oc	Nov Dec Jan Feb Mar Apr May	2021 Jun Jul /	uag Sep Oct Nov Dec Jan Feb	Mar Apr Ma	y Jun Jul Aug Sep	Oct Now Dec Jan Fe	eb Mar	Apr May Jun Jul Aug Sep Oct Nov Dec Jan Fe	2024 Mar Apr May Jun Jul Aug Sep
Instruct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm									<u> </u>								59.4 59.	4		
instruct Southern Dwall and Traffic Deck (cross road sections) - Temporary offic Deck																		54.1		
nstruct Southern Dwall and Traffic Deck (cross road sections) - Diaphragm																	57.3 57.	3		
instruct Southern Dwall and Traffic Deck (cross road sections) - Temporary iffic Deck																		52.0		
molish special clinic extension building										60.9	60.9 60.5	60.9 60.9								
cavation of Tunnel Tubes (under cover of traffic deck)												65.2 65.2							65.2 65.2 65.2	
nstruct Southern Dwall & Traffic Deck - Piling for King Post									62.4											
nstruct Southern Dwall &Traffic Deck - Grouting for King Post									62.0											
nstruct Southern Dwall & Traffic Deck - Excavation for Diaphragm Walls									60.4	60.4										
nstruct Southern Dwall &Traffic Deck - Concreting for Diaphragm Walls									30.7	62.1										
nstruct Southern Dwall & Traffic Deck - Temporary Traffic Deck										60.5										
nstruct Northern Dwall & Traffic Deck - Piling for King Post										0.0		50.5								
nstruct Northern Dwall & Traffic Deck - Grouting for King Post									+ +			383								
									+ +			38.3								
nstruct Northern Dwall & Traffic Deck - Excavation for Diaphragm Walls									+ +			36.7 36.7								
nstruct Northern Dwall &Traffic Deck - Concreting for Diaphragm Walls									+			58,4								
nstruct Northern Dwall & Traffic Deck - Temporary Traffic Deck						+ + +			+++-			+ + + + + + + + + + + + + + + + + + + +					56.8			
cavation of Tunnel Tubes (under cover of traffic deck)	- - - 					+ + +			+++-			+ + + + + + + + + + + + + + + + + + + +				++++		58.0	58.0 58.0 58.0	+ + + + + + + +
cavation of Tunnel Tubes (under cover of traffic deck)						+ + -			+++-			+ + + + + + + + + + + + + + + + + + + +				 			55.2 55.2 55.2 55.2	1.2
cavation of Tunnel Tubes (under cover of traffic deck)						+++			+++-'			+++++						++	49,1 45	U1 49.1 49.1
derpinning of Existing Bridges (under cover of traffic deck)						+++			+++-'	56.8 56.8 56.8	56.8 56.8	56.8 56.8						++		+++++++++++++++++++++++++++++++++++++++
ristruction of the Cut and Cover Tunnel (under cover of traffic deck)						+			+++-			+ + + + + + + + + + + + + + + + + + + +						+	61.3 61	3 61.3 61.3 61.3 61.3 61.3 61.3 61.3
derpinning of Existing Bridges (under cover of traffic deck)	+			\vdash		+			+++-	+++	50.3	50.3 50.3 50.3 50.3 50.3 50.3						++		
nstruction of the Cut and Cover Tunnel (under cover of traffic deck)																			54.8 54	8 54.8 54.8 54.8 54.8 54.8 54.8 54.8
derpinning of Existing Bridges (under cover of traffic deck)									46.1	46.1 46.1 46.1	46.1									
struction of the Cut and Cover Tunnel (under cover of traffic deck)									'										50.6 50	1.6 50.6 50.6 50.6 50.6 50.6 50.6 50.6
derpinning of Existing Bridges (under cover of traffic deck)									'			57.9 57.9 57.9 57.9	57.9 57.9 5	7.9 57.9 57.9 57.9						
									'											
andation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)									 '					67.9 67.9 67.9	67.9 67.9 67.)				
nstruct noise barriers and noise enclosure on GRF Flyover (Ferry Street									'											
ction) and along Ting Ping Street									+++			+ + + + + + + + + + + + + + + + + + + +						57.5	57.5 57.5	
andation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)									'				70 (7		70 (70 (70	707 707				
									+ +				/0.0	15 70.5 70.5 70.5 70.5 70.5 70.5	70.6 70.6 70.	5 70.6 70.6				
nstruct noise barriers and noise enclosure on GRF Flyover (Ferry Street ction) and along Ting Ping Street									'										60.2 60.2 60.2 60.2 60.2	
undation (west side) for noise enclosure on GRF Flyover (Ferry Street Section)																		79.4	79.4 79.4	
nstruct noise barriers and noise enclosure on GRF Flyover (Ferry Street									'											
ction) and along Ting Ping Street									'										70.7 70.7 70.7 70.7 70.7 70.7	
									'											
d works for re-align Ferry Street at-grade road									+++-			 							74.	3 74.3 74.3
tolish the Existing Ferr Street Subway struct Northern Dwall & Traffic Deck (cross road sections) - Excavation for									+			64.8								+ + + + + + + + + + + + + + + + + + + +
shragm Walls struct Northern Davill & Truffic Deck (cross road sections) - Concreting for									+++-			+ + + + + + + + + + + + + + + + + + + +		62.1 62.1						+ + + + + + + + + + + + + + + + + + + +
plingm Walls struct Northern Dwall & Traffic Deck (cross road sections) -Temporary fife Deck struct Northern Dwall & Traffic Deck (cross road sections) - Excavation for									+++-			+ + + + + + + + + + + + + + + + + + + +		62.2 62.2 62.2						+ + + + + + + + + + + + + + + + + + + +
fic Deck struct Northern Dwall & Traffic Deck (cross road sections) - Excavation for									+++-			+++++		60.1						+++++
phragm Walls nstruct Northern Dwall & Traffic Deck (cross road sections) - Concreting for	+			\vdash		+			+++-	+++		++++++		57.1 57.1				++		++++++
Instruct Northern Dwall & Traffic Deck (cross road sections) -Temporary									+++-			+ + + + + + + + + + + + + + + + + + + +		57.2 57.2 57.2						
ffic Deck	+								+++-'			+ + + + + + + + + + + + + + + + + + + +		55.2		+				
instate the affected roads and footpaths	\bot					+			++			+ + + + + + + + + + + + + + + + + + + +				+			62.2 62.2 62.2 62.2	
d works for Section between Ferry Street and Nathan Road	\bot					\bot			'							+				64.6 64.6 64.6 64.6 64.6 64.6 64.6
astate the affected roads and footpaths	\bot					\bot			'							+			54.7 54.7 54.7 54.7	
d works for Section between Ferry Street and Nathan Road	\bot																			55.6 55.6 55.6 55.6 55.6 55.6 55.6
struction of the Cut and Cover Tunnel (under cover of traffic deck)									'										62.1 62.1 62.1 62.1 62.1 62.1 62.1 62.1	1 62.1 62.1 62.1 62.1 62.1 62.1
kfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)									'											47.4 47.4
sstruction of the Cut and Cover Tunnel (under cover of traffic deck)																			53.0 53.0 53.0 53.0	0 53.0 53.0 53.0 53.0 53.0 53.0
kfilling on Top of Cut and Cover Tunnel (under cover of traffic deck)																				38.8 38.8 38.8 38.8
nstruction of Temporary Maternal and Child Health Centre - Foundation	47.2 47.2	47.2	\bot \Box				$\perp \!\!\! \perp \!\!\! \perp \!\!\! \perp \!\!\! \perp$				ШΤ									
nstruction of Temporary Maternal and Child Health Centre - Superstructure		57.2 57.2 57.2 57.	7.2 57.2 57.2																	
al SPL (YMTE only), dB(A) rected SPL (YMTE only), dB(A) -		61 64 64 64 64	4 65 66		61 60 62 62		58 69		70 70 66	68 68 68	68 68		64 71	1 73 73 73 74 72 72	72 73 73	71 71 0 60	60 60 57 62 63	3 80	80 80 73 73 72 72 72 72 66 68 75	75 75 69 69 69 69 68
ceedance (YMTE only), dB(A)																			5 5	
AD 500 10 10 10 10 10 10 10 10 10 10 10 10 1												60 59 59 59 59 59 59 59 69 72 68 65 68 68 67 								

uld be conducted in more than one works sites, the distance of the works site closer to the NSR is adopted in the assessment as the worst-case scenario side. 500th boundary of the NSR are not assessed of 10 standard present personal pers

Build King - SKEC Joint Venture
Construction Noise Assessment
Period: 0700 to 1900 (except general holidays)
Noise Sensitive Receiver: W-P11 The Coronation (West Façade)

Noise Sensitive Receiver:	W-P
Mitigation Magaziros Scon	orio

Worksite	Measures Scenario Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on- time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level for each group, dB(A)
			Concrete Lorry Mixer Concrete pump	CNP044 CNP047	109 109	60 80	-2 -1	107	1	107 108	165 165	-52 -52	3	-5 -10	52 49	-
			Dump Truck with Grab	CNP069	105	70	-2 0	103	1	103	165	-52	3	-5	49	56
	Construct Dwall and Traffic Deck	1140	Generator Lorry	CNP103 CNP142	95 105	100 60	-2	95 103	1	98 103	165 165	-52 -52	3	-10 -5	39 48	-
	- Piling for King Post	Jul-18	Generator	CNP103	95	100	0	95	2	98	165	-52	3	-10	39	
			Lorry Crane Mobile	CNP142 BS D7-114	105 101	60 70	-2 -2	103 99	1	103 99	165 165	-52 -52	3	-5 -5	48 45	55
			Bored Piling Crane mounted auger Excavator/Loader, Wheeled/Tracked	BS D4-37 EPD-09560	111 99	70 70	-2 -2	109 97	2	112 97	165 165	-52 -52	3	-10 -5	53 43	_
			Bar Bender and Cutter Concrete Lorry Mixer	CNP021 CNP044	90 109	70 60	-2 -2	88 107	1	88 107	165 165	-52 -52	3	0 -5	39 52	-
			Concrete pump Generator	CNP047 CNP103	109 95	80 100	-1 0	108 95	1 2	108 98	165 165	-52 -52	3	-10 -10	49 39	56
	Construct Dwall and Traffic Deck	Aug 2018 -	Lorry Poker, Vibratory, Hand Held	CNP142 CNP173	105 102	70 60	-2 -2	103	1	103	165 165	-52 -52	3	-5 -5	49 45	1
S3	- Diaphragm Walls	Nov 2018	or												•	‡ T
			Dump Truck with Grab Generator	CNP069 CNP103	105 95	70 100	-2 0	103 95	2	103 98	165 165	-52 -52	3	-5 -10	49 39	
			Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering	BS D7-114 CNP162	101 105	70 90	-2 0	99 105	1	99 105	165 165	-52 -52	3	-5 -10	45 45	52
			Excavator/Loader, Wheeled/Tracked Dump Truck with Grab	EPD-09560 CNP069	99 105	60 70	-2 -2	97 103	1	97 103	165 165	-52 -52	3	-5 -5	42 49	
	Construct Southern Dwall & Traffic	Nov 2018 -	Generator Lorry	CNP103 CNP142	95 105	100 70	-2	95 103	1	95 103	165 165	-52 -52	3	-10 -5	36 49	
	Deck - Excavation for Diaphragm Walls			BS D7-114 CNP162	101 105	70 90	-2 0	99 105	1	99 105	165 165	-52 -52	3	-5 -10	45 45	54
	Construct Southern Dwall &Traffic		Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60 70	-2 -2	97	1	97 88	165	-52	3	-5 0	42 39	1
	Deck - Concreting for Diaphragm	Feb-19	Bar Bender and Cutter Concrete Lorry Mixer	CNP021 CNP044	90 109	60	-2	88 107	1	107	165 165	-52 -52	3	-5	52	54
	Walls		Concrete pump Generator	CNP047 CNP103	109 95	80 70	-1 -2	108 93	1	108 93	165 165	-52 -52	3	-10 -10	49 34	
	Construct Southern Dwall & Traffic Deck - Temporary Traffic Deck	Mar-19	Lorry Excavator/Loader, Wheeled/Tracked	CNP142 EPD-09560	105 99	90 70	-2	105 97	1	105 97	165 165	-52 -52	3	-5 -5	50 43	52
	Removal of Excavated Material	Feb 2020 -	Crane Mobile	BS D7-114	101	70	-2	99	1	99	165	-52	3	-5	45	
S13a	through West End Portal	Apr 2020	Dump Truck with Grab Concrete Lorry Mixer	CNP069 CNP044	105 109	70 60	-2 -2	103 107	10	113 107	165 285	-52 -57	3	-5 -5	59 48	59
			Concrete pump Dump Truck with Grab	CNP047 CNP069	109	80 70	-1 -2	108	1	108	285 285	-57 -57	3	-10 -5	44 44	51
			Generator Lorry	CNP103 CNP142	95 105	100	0 -2	95 103	2	98 103	285 285	-57 -57	3	-10 -5	34 44	-
	Construct Dwall and Traffic Deck - Piling for King Post	Nov-19	or Generator	CNP103	95	100	0	95	2	98	285		3	-10	34	+
			Lorry Crane Mobile	CNP142 BS D7-114	105	60	-2 -2	103	1	103	285 285	-57 -57 -57	3	-10 -5 -5	44 40	50
			Bored Piling Crane mounted auger	BS D4-37	111	70	-2	109	2	112	285	-57	3	-10	48	- 30
			Excavator/Loader, Wheeled/Tracked Bar Bender and Cutter	CNP021	99	70 70	-2 -2	97 88	1	97 88	285 285	-57 -57	3	-5 0	38 34	-
16a			Concrete Lorry Mixer Concrete pump	CNP044 CNP047	109	60 80	-2 -1	107 108	1	107 108	285 285	-57 -57	3	-5 -10	48 44	51
			Generator Lorry	CNP103 CNP142	95 105	100 70	-2	95 103	1	98 103	285 285	-57 -57	3	-10 -5	34 44	
	Construct Middle Dwall and Traffic Deck - Diaphragm Walls	Dec 2019 - Apr 2020	Poker, Vibratory, Hand Held or Dump Truck with Grab	CNP173	102	60	-2	100	1	100	285	-57	3	-5	41	ļ
	2000 Supmagni Wallo	7 (p) 2020	Generator	CNP069 CNP103	105 95	70 100	-2 0	103 95	1	103 98	285 285	-57 -57	3	-5 -10	44 34	
			Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering	BS D7-114 CNP162	101	70 90	-2 0	99 105	1	99 105	285 285	-57 -57	3	-5 -10	40	48
			Plant Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	285	-57	3	-5	38	-
	Construct Middle Dwall and Traffic	May-20	Generator Lorry	CNP103 CNP142	95 105	70 90	-2 0	93 105	1	93 105	285 285	-57 -57	3	-10 -5	29 45	47
	Deck - Temporary Traffic Deck	Way 20	Excavator/Loader, Wheeled/Tracked Crane Mobile	EPD-09560 BS D7-114	99 101	70 70	-2 -2	97 99	1	97 99	285 285	-57 -57	3	-5 -5	38 40	- "
			Asphalt Paver Concrete Lorry Mixer	EPD-01126 CNP044	104 109	80 60	-1 -2	103 107	2	103 110	150 150	-52 -52	3	-5 -5	50 56	-
			Dump Truck with Grab Generator	CNP069 CNP103	105 95	70 100	-2 0	103 95	3	106 100	150 150	-52 -52	3	-5 -10	53 41]
S28	Diversion of Ferry Street Junction	Jul 2019 - Sep 2019	Poker, Vibratory, Hand Held Road Roller	CNP173 EPD-01183	102 97	70 70	-2 -2	100 95	3	105 98	150 150	-52 -52	3	-5 -5	52 45	60
			Excavator/Loader, Wheeled/Tracked Crane Mobile	EPD-09560 BS D7-114	99 101	70 70	-2 -2	97 99	2	100 99	150 150	-52 -52	3	-5 -5	47 46]
			Bar Bender and Cutter Concrete pump	CNP021 CNP047	90 109	70 80	-2 -1	88 108	1	88 108	150 150	-52 -52 -52	3	0 -10	40 50]
	Construct Southern Dwall & Dwall		Generator Lorry	CNP103 CNP142	95 105	100 60	0	95 103	1	95 103	215 215	-55	3	-10 -5	33 46	-
	Crossing Ferry Street - Piling for King Post	Nov-19	Crane Mobile Bored Piling Crane mounted auger	BS D7-114 BS D4-37	101	70 70	-2 -2 -2	99	1	99 109	215 215	-55 -55 -55	3	-5 -10	43 48	51
	Construct Southern Dwall & Dwall		Excavator/Loader, Wheeled/Tracked Concrete Lorry Mixer	EPD-09560 CNP044	99	70 60	-2 -2	97 107	1	97 107	215 215	-55 -55	3	-5 -5	41	-
	Crossing Ferry Street - Grouting for King post	Nov-19	Concrete pump	CNP047	109	80	-1	108	1	108	215	-55	3	-10	46	52
	TOT KING POST		Dump Truck with Grab	CNP069 CNP103	105	70	-2 0	103	1	103	215 215	-55 -55	3	-5 -10	47	-
S29	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation	Dec 2019 -	Generator Lorry	CNP142	95 105	100 70	-2	95 103	1	95 103	215	-55	3	-5	33 47	52
	for Diaphragm Walls	Mar 2020	Crane Mobile Piling, Diaphragm Wall, Bentonite Filtering	BS D7-114 CNP162	101	70 90	-2 0	99 105	1	99 105	215 215	-55 -55	3	-5 -10	43	. 52
	Construct Continue Divisit & Divisit		Plant Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	215	-55	3	-5	40	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Concreting	Apr-20	Bar Bender and Cutter Concrete Lorry Mixer	CNP021 CNP044	90 109	70 60	-2 -2	88 107	1	88 107	215 215	-55 -55	3	0 -5	37 50	52
	for Diaphragm Walls Construct Southern Dwall & Dwall		Concrete pump Generator	CNP047 CNP103	109 95	80 70	-1 -2	108 93	1	108 93	215 215	-55 -55	3	-10 -10	46 32	
	Crossing Ferry Street - Temporary Traffic Deck	May-20	Lorry Excavator/Loader, Wheeled/Tracked	CNP142 EPD-09560	105 99	90 70	-2	105 97	1	105 97	215 215	-55 -55 -55	3	-5 -5	48 41	50
			Crane Mobile Generator	BS D7-114 CNP103	101 95	70 100	-2 0	99 95	1	99 95	215 295	-55 -57	3	-5 -10	43 31	
	Construct Southern Dwall & Dwall Crossing Ferry Street - Piling for	Apr-23	Lorry Crane Mobile	CNP142 BS D7-114	105 101	60 70	-2 -2	103 99	1	103 99	295 295	-57 -57	3	-5 -5	43 40	48.5
	King Post		Bored Piling Crane mounted auger Excavator/Loader, Wheeled/Tracked	BS D4-37 EPD-09560	111	70 70	-2 -2	109 97	1	109 97	295 295	-57 -57	3	-10 -5	45 38	1
	Construct Southern Dwall & Dwall Crossing Ferry Street - Grouting	Apr-23	Concrete Lorry Mixer Concrete pump	CNP044 CNP047	109	60 80	-2 -1	107	1	107 108	295 295	-57 -57	3	-5 -10	47 44	48.9
	Cook Groung		Dump Truck with Grab Generator	CNP069 CNP103	105 95	70 100	-2 0	103	1	103 95	295 295	-57 -57	3	-5 -10	44 31	1
S32	Construct Southern Dwall & Dwall Crossing Ferry Street - Excavation	Feb 2023 -	Lorry Crane Mobile	CNP103 CNP142 BS D7-114	105 101	70 70	-2 -2	103 99	1	103 99	295 295 295	-57 -57	3	-10 -5 -5	44 40	48.9
552	for Diaphragm Walls	Mar 2023	Piling, Diaphragm Wall, Bentonite Filtering	CNP162	105	90	0	105	1	105	295	-57	3	-10	40	1 .0.5
	Construct Southern Dwall & Dwall		Plant Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	295	-57	3	-5	37	1
	Crossing Ferry Street - Concreting	Apr 2023 - May 2023	Bar Bender and Cutter Concrete Lorry Mixer	CNP021 CNP044	90 109	70 60	-2 -2	88 107	1	88 107	295 295	-57 -57 -57	3	-5	34 47	49.1
	for Diaphragm Walls Construct Southern Dwall & Dwall		Concrete pump Generator	CNP047 CNP103	109 95	80 70	-1 -2	108 93	1	108 93	295 295	-57	3	-10 -10	44 29	<u> </u>
	Crossing Ferry Street - Temporary Traffic Deck	Jun-23	Lorry Excavator/Loader, Wheeled/Tracked	CNP142 EPD-09560	105 99	90 70	-2	105 97	1	105 97	295 295	-57 -57	3	-5 -5	45 38	47
1	. rano book	1	Crane Mobile	BS D7-114	101	70	-2	99	1	99	295	-57	3	-5	40	1

Build King - SKEC Joint Venture
Construction Noise Assessment
Period: 0700 to 1900 (except general holidays)
Noise Sensitive Receiver: W-P11 The Coronation (West Façade)
Mitigation Measures Scenario

Worksite	Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time,	Time Factor	Quiet Plant SWL with on- time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level for each group, dB(A)
			Bar Bender and Cutter Concrete Lorry Mixer	CNP021 CNP044	90 109	70 60	-2 -2	88 107	1	88 107	260 260	-56 -56	3	-5	35 48	
			Concrete pump Dump Truck with Grab	CNP047 CNP069	109 105	80 70	-1 -2	108	1	108 103	260 260	-56 -56	3	-10 -5	45 45	+
	Construct Southern Dwall and Traffic Deck (cross road sections)	Mar 2021 -	Generator	CNP103 CNP142	95 105	100 70	0 -2	95 103	1	95 103	260 260	-56 -56	3	-10 -5	32 45	53
	- Diaphragm Walls	Apr 2021	Crane Mobile	BS D7-114	101	70	-2	99	1	99	260	-56	3	-5 -5	41	33
S39			Piling, Diaphragm Wall, Bentonite Filtering Plant	CNP162	105	90	0	105	1	105	260	-56	3	-10	41	
			Poker, Vibratory, Hand Held	CNP173 EPD-09560	102	60 60	-2	100	1	100	260	-56	3	-5	41	
	Construct Southern Dwall and		Excavator/Loader, Wheeled/Tracked Generator	CNP103	99 95	70	-2 -2	97 93	1	97 93	260 260	-56 -56	3	-5 -10	38 30	
	Traffic Deck (cross road sections)	Mar-23	Lorry Excavator/Loader, Wheeled/Tracked	CNP142 EPD-09560	105 99	90 70	-2	105 97	1	105 97	260 260	-56 -56	3	-5 -5	46 39	48
	- Temporary Traffic Deck		Crane Mobile	BS D7-114	101	70	-2	99	1	99	260	-56	3	-5	41	
	Excavation of Tunnel Tubes (under	Dec 2020 - Jan 2021,	Generator Excavator/Loader, Wheeled/Tracked	CNP103 EPD-09560	95 99	100 80	-1	95 98	10 5	105 105	210 210	-54 -54	3	-20 -20	34 34	1
S43	cover of traffic deck)	May 2023	Rock drill, crawler mounted (pneumatic) Ventilation Fan	SIL EIA CNP241	108 108	80 90	-1 0	107 108	5 10	114 118	210 210	-54 -54	3	-20 -15	43 51	52
		- Jul 2023	Water Pump, Submersible (Electric)	CNP283	85	100	0	85	12	96	210	-54	3	-20	24	
	Formation of Towns IT has forder	M 0000	Generator Excavator/Loader, Wheeled/Tracked	CNP103 EPD-09560	95 99	100 80	-1	95 98	2	101	195 195	-54 -54	3	-20 -20	30 30	
S46a	Excavation of Tunnel Tubes (under cover of traffic deck)	Jun 2023 -	Rock drill, crawler mounted (pneumatic)	SIL EIA	108	80	-1	107	2	110	195	-54	3	-20	39	48
			Ventilation Fan Water Pump, Submersible (Electric)	CNP241 CNP283	108 85	90 100	0	108 85	4	114 91	195 195	-54 -54	3	-15 -20	48 20	
	5 " (T ITI (I		Generator Excavator/Loader, Wheeled/Tracked	CNP103 EPD-09560	95 99	100 80	-1	95 98	3	100 101	275 275	-57 -57	3	-20 -20	26 27	-
S46b	Excavation of Tunnel Tubes (under cover of traffic deck)	Feb 2024	Rock drill, crawler mounted (pneumatic)	SIL EIA	108	80	-1	107	2	110	275	-57	3	-20	36	44
	,		Ventilation Fan Water Pump, Submersible (Electric)	CNP241 CNP283	108 85	90 100	0	108 85	3 4	112 91	275 275	-57 -57	3	-15 -20	44 17	1
			Generator Bar Bender and Cutter	CNP103 CNP021	95 90	100 70	0 -2	95 88	1	95 88	225 225	-55 -55	3	-20 -20	23 16	
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	225	-55	3	-20	35	
	Underpinning of Existing Bridges (under cover of traffic deck)	Jun 2020 - Dec 2020	Concrete pump Crane Mobile	CNP047 BS D7-114	109 101	80 70	-1 -2	108 99	1	108 99	225 225	-55 -55	3	-20 -20	36 27	43
	(Excavator/Loader, Wheeled/Tracked	EPD-09560	99	60	-2	97	1	97	225	-55	3	-20	25	
			Ventilation Fan Water Pump, Submersible (Electric)	CNP241 CNP283	108 85	90 100	0	108 85	1	108 85	225 225	-55 -55	3	-15 -20	40 13	
S47a			Bar Bender and Cutter Concrete Lorry Mixer	CNP021 CNP044	90 109	60 60	-2 -2	88 107	1	88 107	225 225	-55 -55	3	-20 -20	16 35	
	0		Concrete pump	CNP047	109	80	-1	108	1	108	225	-55	3	-20	36	
	Construction of the Cut and Cover Tunnel (under cover of traffic	Jan 2024 -	Generator Crane Mobile	CNP103 BS D7-114	95 101	100 70	-2	95 99	1	98 99	225 225	-55 -55	3	-20 -20	26 27	47
	deck)	Oct 2024	Poker, Vibratory, Hand Held Excavator/Loader, Wheeled/Tracked	CNP173 EPD-09560	102 99	70 70	-2 -2	100 97	1	100 97	225 225	-55 -55	3	-20 -20	28 25	
			Ventilation Fan	CNP241	108	90	0	108	4	114	225	-55	3	-15	47	1
			Water Pump, Submersible (Electric) Generator	CNP283 CNP103	85 95	100 100	0	85 95	1	91 95	225 230	-55 -55	3	-20 -20	19 23	
			Bar Bender and Cutter Concrete Lorry Mixer	CNP021 CNP044	90 109	70 60	-2 -2	88 107	1	88 107	230 230	-55 -55	3	-20 -20	16 35	
S49	Underpinning of Existing Bridges	Feb 2021 -	Concrete pump	CNP047	109	80	-1	108	1	108	230	-55	3	-20	36	43
	(under cover of traffic deck)	Nov 2021	Crane Mobile Excavator/Loader, Wheeled/Tracked	BS D7-114 EPD-09560	101 99	70 60	-2 -2	99 97	1	99 97	230 230	-55 -55	3	-20 -20	27 25	1
			Ventilation Fan Water Pump, Submersible (Electric)	CNP241 CNP283	108 85	90 100	0	108 85	1	108 85	230 230	-55	3	-15 -20	40 13	
			Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	180	-55 -53	3	-5	55	
			Concrete pump Generator	CNP047 CNP103	109 95	80 100	-1 0	108 95	3	108 100	180 180	-53 -53	3	-10 -10	48 40	-
	Foundation (west side) for noise enclosure on GRF Flyover (Ferry	Dec 2021 -	Lorry	CNP142 BS D7-114	105	70 60	-2 -2	103	2	106 104	180 180	-53 -53	3	-5 -5	51 48	60
	Street Section)	May 2022	Crane Mobile Bored Piling Crane mounted auger	BS D4-37	111	80	-1	110	2	113	180	-53	3	-10	53	00
S50a			Excavator/Loader, Wheeled/Tracked Compactor, vibratory	EPD-09560 CNP050	99 105	70 70	-2 -2	97 103	2	100 108	180 180	-53 -53	3	-5 -5	45 53	-
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	180	-53	3	-5	48	
	Construct noise barriers and noise enclosure on GRF Flyover (Ferry	Mar 2023 -	Crane Mobile	BS D7-114	101	70	-2	99	1	99	180	-53	3	-5	44	50
	Street Section) and along Ting	May 2023	Generator	CNP103 CNP142	95 105	100 70	-2	95 103	1	95 103	180 180	-53 -53	3	-10 -5	35 48	50
	Ping Street		Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	215	-55	3	-5	53	
			Concrete pump Generator	CNP047 CNP103	109 95	80 100	-1 0	108 95	1 3	108 100	215 215	-55 -55	3	-10 -10	46 38	
	Foundation (west side) for noise	Jul 2021 -	Lorry	CNP142	105	70	-2	103	2	106	215	-55	3	-5	50	
	enclosure on GRF Flyover (Ferry Street Section)	Jul 2022	Crane Mobile Bored Piling Crane mounted auger	BS D7-114 BS D4-37	101	60 80	-2 -1	99 110	2	104 113	215 215	-55 -55	3	-5 -10	47 51	59
S50b	,		Excavator/Loader, Wheeled/Tracked	EPD-09560 CNP050	99	70	-2	97	2	100	215	-55	3	-5	44	
			Compactor, vibratory Dump Truck with Grab	CNP069	105	70	-2	103	1	108 103	215	-55 -55	3	-5	47	
	Construct noise barriers and noise enclosure on GRF Flyover (Ferry	Jun 2023 -	Crane Mobile	BS D7-114	101	70	-2	99	1	99	215	-55	3	-5	43	
	Street Section) and along Ting	Oct 2023	Generator Lorry	CNP103 CNP142	95 105	100 70	-2	95 103	1	95 103	215 215	-55 -55	3	-10 -5	33 47	48
	Ping Street		Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	250	-56	3	-5	49	
			Concrete pump Generator	CNP047 CNP103	109 95	80 100	-1 0	108 95	1 3	108 100	250 250	-56 -56	3	-10 -10	45 37	-
	Foundation (west side) for noise	Mar 2023 -	Lorry	CNP142	105	70	-2	103	1	103	250	-56	3	-5	45	E0.
	enclosure on GRF Flyover (Ferry Street Section)	May 2023	Crane Mobile Bored Piling Crane mounted auger	BS D7-114 BS D4-37	101 111	60 80	-2 -1	99 110	2	102 113	250 250	-56 -56	3	-5 -10	44 50	56
S50c	,		Excavator/Loader, Wheeled/Tracked Compactor, vibratory	EPD-09560 CNP050	99 105	70 70	-2 -2	97 103	2	100 106	250 250	-56 -56	3	-5 -5	43 49	-
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	250	-56	3	-5	45	
	Construct noise barriers and noise enclosure on GRF Flyover (Ferry	Jun 2023 -	Crane Mobile	BS D7-114	101	70	-2	99	1	99	250	-56	3	-5	41	_
	Street Section) and along Ting	Nov 2023	Generator	CNP103	95	100	0	95	1	95	250	-56	3	-10	32	47
	Ping Street	ļ	Lorry	CNP142	105	70	-2	103	1	103	250	-56	3	-5	45	L

Build King - SKEC Joint Venture
Construction Noise Assessment
Period: 0700 to 1900 (except general holidays)
Noise Sensitive Receiver: W-P11 The Coronation (West Façade)
Mitigation Measures Scenario

Worksite	Activity	Period	PME	TM Ref. / other Ref.	Unit Quiet Plant SWL	On-time, %	Time Factor	Quiet Plant SWL with on- time %	No. of plants	Total SWL	Distance from Notional Sources, m	Distance Attenuation	Façade Correction, dB(A)	Barrier Correction, dB(A)	Predicted Noise Level, dB(A)	Total Predicted Noise Level for each group, dB(A)
			Asphalt Paver	EPD-01126	104	80	-1	103	1	103	245	-56	3	-5	45	
			Concrete Lorry Mixer	CNP044	109	60	-2	107	1	107	245	-56	3	-5	49	
			Concrete pump	CNP047	109	80	-1	108	1	108	245	-56	3	-10	45	
			Dump Truck with Grab	CNP069	105	70	-2	103	1	103	245	-56	3	-5	46	
S50d	Road works for re-align Ferry	Feb 2024 -	Generator	CNP103	103	100	0	103	1	103	245	-56	3	-10	40	
S500	Street at-grade road	Apr 2024	Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	1	100	245	-56	3	-10	38	55
	, and the second	· .	Road Roller	EPD-01183	97	80	-1	96	1	96	245	-56	3	-5	38	
			Bored Piling Crane mounted auger	BS D4-37	111	80	-1	110	1	110	245	-56	3	-10	47	
			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	245	-56	3	-5	40	
			Crane Mobile	BS D7-114	101	70	-2	99	1	99	245	-56	3	-5	42	
			Breaker, Excavator Mounted (Hydraulic)	BS D8-13	110	50	-3	107	1	107	200	-54	3	-5	51	
	Danielish the Frietre Franch		Dump Truck with Grab	CNP069	105	70	-2	103	2	106	200	-54	3	-5	50	
S51	Demolish the Existing Ferr Street	Dec-20	Concrete crusher, excavator mounted	CNP055	103	80	-1	102	1	102	200	-54	3	-5	46	55
	Subway		Crane Mobile	BS D7-114	101	70	-2	99	1	99	200	-54	3	-5	43	
			Saw, Wire	CNP205	101	70	-2	99	1	99	200	-54	3	-5	43	
			Bar Bender and Cutter	CNP021	90	60	-2	88	1	88	235	-55	3	-20	15	
			Concrete Lorry Mixer	CNP044	109	60	-2	107	2	110	235	-55	3	-20	37	
			Concrete pump	CNP047	109	80	-1	108	1	108	235	-55	3	-20	36	
	Construction of the Cut and Cover	Jul 2023 -	Generator	CNP103	95	100	0	95	3	100	235	-55	3	-20	27	
	Tunnel (under cover of traffic	Aug 2024	Crane Mobile	BS D7-114	101	70	-2	99	1	99	235	-55	3	-20	27	49
	deck)	Aug 2024	Poker, Vibratory, Hand Held	CNP173	102	70	-2	100	1	100	235	-55	3	-20	28	
S56a			Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	1	97	235	-55	3	-20	25	
			Ventilation Fan	CNP241	108	90	0	108	6	115	235	-55	3	-15	48	
			Water Pump, Submersible (Electric)	CNP283	85	100	0	85	6	93	235	-55	3	-20	20	
	Backfilling on Top of Cut and		Compactor, vibratory	CNP050	105	70	-2	103	1	103	235	-55	3	-20	31	
	Cover Tunnel (under cover of	Aug 2024 -		CNP103	95	100	0	95	2	98	235	-55	3	-20	26	34
	traffic deck)	Nov 2024	Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	2	100	235	-55	3	-20	28	
	· · · · · · · · · · · · · · · · · · ·		Road Roller	EPD-01183	97	80	-1	96	11	96	235	-55	3	-20	24	
			Poker, Vibratory, Hand Held	CNP173	102	50	-3	99	1	99	160	-52	3	-5	45	47
	Maternal and Child Health Centre -		Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70 60	-2 -2	97 88	1	97 91	160 160	-52 -52	3	-5 0	43	
			Bar Bender and Cutter Concrete Lorry Mixer	CNP021 CNP044	90 109	50	-2 -3	106	2	109	160	-52 -52	3	-5	42 55	-
S58	Construction of Temporary		Concrete bump	CNP044 CNP047	109	70	-3 -2	106	- 1	109	160	-52 -52	3	-5 -10	48	-
	Maternal and Child Health Centre -	Jul 2018 -	Generator Generator	CNP1047	95	100	-2	95	2	98	160	-52 -52	3	-10	48 39	57
	Superstructure	Dec 2018	Crane Mobile	BS D7-114	101	50	-3	98	1	98	160	-52	3	-10	44	- 37
	Superstructure		Saw. Circular Wood	BS D7-114	103	50	-3	100	2	103	160	-52	3	-5	49	1
		l	Excavator/Loader, Wheeled/Tracked	EPD-09560	99	70	-2	97	- 1	97	160	-52	3	-5	43	1

W-P11	2018	2019 2020 2021	2022 2023 2024
Worksite Activity Jan Feb Mar Construct Dwall and Traffic Deck - Piling for King	Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr	ay Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Jan Feb Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb	sfar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov
S3 Post	56.1		
Construct Dwall and Traffic Dock - Disphraam Walls	55.8 55.8 55.8 55.8		
S3 Construct Dwall and Traffic Deck - Diaphragm Walls Construct Southern Dwall & Traffic Deck - Excavation	3310 3310 3310		
S3 for Diaphragm Walls Construct Southern Dwall &Traffic Deck - Concreting	54.0 54.0 54.0		
S3 for Diaphragm Walls	54.1		
Construct Southern Dwall & Traffic Deck - Temporary	520		
S3 Traffic Deck Removal of Excavated Material through West End	32.0		
S13a Portal Construct Middle Dwall and Traffic Deck - Piling for		59.1 59.1	
S16a King Post		51.4	
Construct Middle Dwall and Traffic Deck - S16a Diaphragm Walls		51 51 51 51 51	
Construct Middle Dwall and Traffic Deck -		70 70 70 70 70	
S16a Temporary Traffic Deck		47.3	
S28 Diversion of Ferry Street Junction		604 604 604	
S28 Diversion of Ferry Street Junction Construct Southern Dwall & Dwall Crossing Ferry			
S29 Street - Piling for King Post Construct Southern Dwall & Dwall Crossing Ferry		21.5	
S29 Street - Grouting for King post Construct Southern Dwall & Dwall Crossing Ferry		51.7	
S29 Street - Excavation for Diaphragm Walls			
S29 Street - Excavation for Diaphragm Walls Construct Southern Dwall Dwall Crossing Ferry			
S29 Street - Concreting for Diaphragm Walls Construct Southern Dwall & Dwall Crossing Ferry		1 21.8	
S29 Street - Temporary Traffic Deck Construct Southern Dwall & Dwall Crossing Ferry		49,7	
Construct Southern Dwall & Dwall Crossing Ferry S32 Street - Piling for King Post Construct Southern Dwall & Dwall Crossing Ferry			48.5
Construct Southern Dwall & Dwall Crossing Ferry Street Growting for Ving pact			AS 0
S32 Street - Grouting for King post Construct Southern Dwall & Dwall Crossing Ferry			489
S32 Street - Excavation for Diaphragm Walls Construct Southern Dwall & Dwall Crossing Ferry			48.9 48.9
S32 Street - Concreting for Diaphragm Walls Construct Southern Dwall & Dwall Crossing Ferry			49,1 49,1
Construct Southern Dwall & Dwall Crossing Ferry			50
S32 Street - Temporary Traffic Deck Construct Southern Dwall and Traffic Deck (cross road			4/0
S39 sections) - Diaphragm Walls Construct Southern Dwall and Traffic Deck (cross road		53.4 53.4	
S39 sections) - Temporary Traffic Deck Excavation of Tunnel Tubes (under cover of traffic			48.1
Excavation of Tunnel Tubes (under cover of traffic		0.00	518 518 518
Excavation of Tunnel Tubes (under cover of traffic			
S46a deck) Excavation of Tunnel Tubes (under cover of traffic			48.5 48.5 48.5 48.5
S46b deck)			44,4 44,4 44,4 44,4
Underpinning of Existing Bridges (under cover of traffic deck)		428 428 428 428 428 428 428	
Construction of the Cut and Cover Tunnel (under		1400 1400 1400 1400 1400 1400 1400	
S47a cover of traffic deck) Underpinning of Existing Bridges (under cover of			473 473 473 473 473 473 473 473 473 473
S49 traffic deck)		42,7 42,7 42,7 42,7 42,7 42,7 42,7 42,7	
Foundation (west side) for noise enclosure on GRF S50a Flyover (Ferry Street Section)		603 603 603	903 603 603
Construct noise barriers and noise enclosure on GRF			
Flyover (Ferry Street Section) and along Ting Ping			
S50a Street			49,9 49,9 49,9
Foundation (west side) for noise enclosure on GRF			
S50b Flyover (Ferry Street Section)		58.8 58.8 58.8 58.8 58.8 58.8 58.8 58.8	58.8 58.8 58.8 58.8 58.8
Construct noise barriers and noise enclosure on GRF			
Flyover (Ferry Street Section) and along Ting Ping S50b Street			48.4 48.4 48.4 48.4 48.4
Foundation (west side) for noise enclosure on GRF			
S50c Flyover (Ferry Street Section) Construct noise barriers and noise enclosure on GRF			36.0 36.0 50.0
Flyover (Ferry Street Section) and along Ting Ping			
S50c Street			47.1 47.1 47.1 47.1 47.1 47.1
S50d Road works for re-align Ferry Street at-grade road			
		550	
S51 Demolish the Existing Ferr Street Subway Construction of the Cut and Cover Tunnel (under		55.0	
\$56a cover of traffic deck)			48.6 48.6 48.6 48.6 48.6 48.6 48.6 48.6
Social Statistics of Top of Cut and Cover Tunnel (under S56a cover of traffic deck)			34,0 34,0 34,0 34,0 34,0 34,0 34,0 34,0
Construction of Temporary Maternal and Child Health	47.2 47.2 47.2		
S58 Centre - Foundation Construction of Temporary Maternal and Child Health			
S58 Centre - Superstructure	57.2 57.2 57.2 57.2 57.2 57.2		
Total SPL (YMTE only), dB(A) Corrected SPL (YMTE only), dB(A)	4/ 4/ 4/ 00 00 00 00 01 59 54 54 52 -	60 60 60 - 56 54 54 60 60 60 52 43 43 43 43 43 57 52 43 54 54 43 43 59 59 59 59 63 63 63 63 63 63 63 63 63 63 63 63 63	ענ ענ נט נט נט נט נט נט נט נט נט נט נט נט נט

Notes:

[1] For words that would be conducted in more than one works sites, the distance of the works site closer to the NSR is adopted in the assessment as the worst-case scenario

[2] Words located outside 300m boundary of the NSR are not assessed

[3] For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD, [4] The concurrent work that is within 300m of the NSR, CKR YMTW section. Following the YMTW CNMMP, the noise level is extracted for this assessment.

Contract No.: HY/2014/08 Central Kowloon Route -Yau Ma Tei East

Appendix D

Distance between NSRs and Worksites

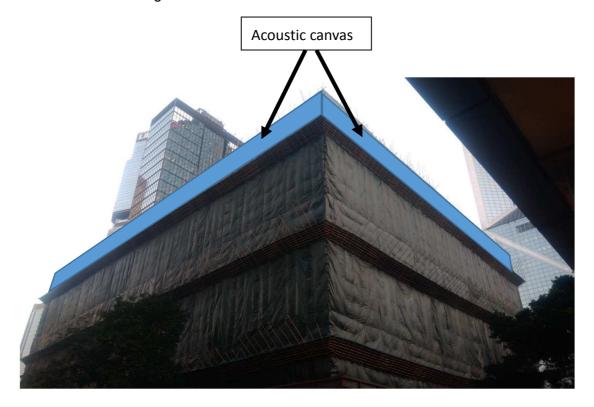
NSRs		S3	S4	S5	S6	S7	S8	S9	S13a	S16a	S16b	S17 S	518 5	25 S	26 S2	7a S27	b S28	S29	S30	S31	S32	S33 5	S34 S	S35 S3	6a S36	6b S37	a S37b	S39	S40	S41	S42	S43 S	544 S	45 S4	6a S46	b S460	S47a	S47b	S47c	S49 S	50a S5	50b S:	50c S5	0d S5	1 S5	2 S53	3 S55:	S55b	S56a	S56b	S57 S5
W-N1A Yau Ma Tei Catholic Pr School (Hoi Wang Road)	imary	300	>300	>300	>300	>300	>300	>300	300	>300	>300	>300 >	300 >	300 >3	800 >30	00 >30	00 >300) >300	>300	>300	>300	>300 >	>300 >	300 >3	300 >30	00 >30	0 >300	>300	>300	>300	>300 >	300 >	300 >3	00 >30	00 >30	0 >300	>300	>300	>300	>300 >	300 >3	300 >	300 >3	00 >30	00 >3	00 >30	0 >30	>300	>300	>300	>300 >30
W-N8A Tak Cheong Building		250	70	19	45	85	80	135	250	55	22	75	135	32 4	15 3	1 10	0 160	140	85	70	55	8	32	135 3	2 50	0 23	90	120	29	15	40	135	55 3	0 15	5 60	13	120	45	14	125	225 20	05 1	70 18	35 22	5 8	5 40	50	35	75	15	75 26
W-N25A Prosperous Garden Ble	ock 1	110	120	135	170	180	205	285	110	80	160	170	245 1	20 1	65 80	0 210	0 85	45	70	50	95	150	190	265 11	15 20	5 80	230	75	130	165	130	45	85 13	30 6	5 80	155	45	95	155	40	75 5	55	16 2	5 65	5 6	5 11:	5 75	175	50	135	205 16
W-P11 The Coronation (West Fa	ıçade)	165	>300	>300	>300	>300	>300	>300	165	285	>300	>300 >	300 >	300 >3	800 >30	00 >30	00 150	215	>300	>300	295	>300 >	>300 >	300 >3	300 >30	00 >30	0 >300	260	>300	>300	>300	210 >	300 >3	00 19	5 27	5 >300	225	>300	>300	230	180 2	15 2	50 24	15 20	0 >3	00 >30	0 >30	>300	235	>300	>300 16

Contract No.: HY/2014/08 Central Kowloon Route -Yau Ma Tei East

Appendix E

Details of Acoustic Noise Barriers for Demolition Works of YMT Yau Ma Tei Mulit-storey Carpark Building

Temporary noise barrier will be erected at the floor to be demolished surrounding the 4 sides of the building



Model No. CK2009	High Tenacity Polyester PVC Laminated Fabrics
General Applications:	Construction, Marine (Field) covers, Storage covers and many other applications
Colors:	Yellow, Sky Blue, Green, Orange, Dark Green, White, Grey
Available Grades:	Fire-Retardant, Ultra-Violet, Anti-Mildew, Anti-Cold, Sound Insulated
Type of Products:	Roll Type
Raw Material Origin:	From Japan
Flammability Test Method:	BS 5867-2 2008
Sizes:	2M x 6M, 2M x 30M(roll type)

Sample name(provided by sponsor):

Color:
Gray

Mass per unit area:
Area, S, of test element:
Air temp. in the test rooms:
Color:
Relative humidity in the test rooms:
Receiving room volume:

Cray

FVC Tarpaulin

Gray

Area

3.8 m²

27°C

Relative humidity in the test rooms:
FS%

Receiving room volume:

Cray

67.9 m³

十十十十 大変形 Dimensions





Long Lasting



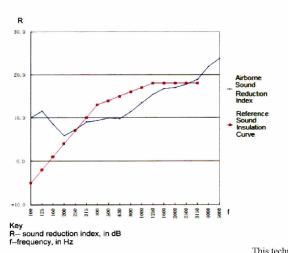




Physical Properties:

III. Test resu	lts
f	R
Hz	dB
100	10.1
125	11.6
160	8.6
200	5.9
250	7.3
315	9.1
400	9.4
500	10.0
630	9.9
800	11.5
1000	13.5
1250	15.5
1600	16.7
2000	17.0
2500	17.8
3150	18.9
4000	21.9
5000	23.9
Rw (C:Ctr)	14(-1;-2)

Fabric Detail 網布規格	1000D × 1000D × 20 ×22					
Item 項目名稱	Test Method 執行標準	Unit 單位	Val 數i			
Thickness 厚度	DIN53353	mm	1.0)		
Total Weight 總重量	DIN53352	g/m2	113	2.2		
Tensile Strength 拉伸強度	DIN53354	N/5cm	經 Warp 緯 Weft	3040 2549		
Elongation at Break 斷裂伸長率	DIN53354	%	經 Warp 緯 Weft	17.3 23.3		
Tear Strength 撕裂強度	DIN53363	N	經 Warp 緯 Weft	448 374		
Adhesion of Coating Strength 剥離負荷	DIN53357	N/5cm	經 Warp 緯 Weft	123 108		
Remarks 備註				1		







This technical data is offered as helpful suggestion only. It's accurate to the best of our knowledge at time of printing.

Contract No.: HY/2014/08 Central Kowloon Route -Yau Ma Tei East

Appendix F

Details of Acoustic Noise Enclosure or Barriers



SilentCUBE

Movable Noise Enclosure

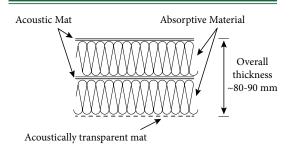
SilentCUBE is a movable noise enclosure for both indoor and outdoor use.

The lightweight design and user friendly installation mechanism enables contractors to quickly deploy and relocate SilentCUBE without using any specialized tools. Each CUBE can be seamlessly connected with another CUBE to accommodate larger machines.

SilentCUBE has been implemented in various construction sites, including:

- Night works conducted inside several MTR stations
- Road works at Tsuen Wan, Hoi Shing Road
- Concreting works for new office and education centre of Hong Kong Water Supplies Department in Tin Shui Wai

Section of Acoustic Panel



Due dough Conseilliantion

Product Sp	pecification
Modular Size (W) x (L)x (H)	1.5m x 1.5m x 2.2m 2m x 2m x 2.2m 2.5m x 2.5m x 2.2m
Modular Weight	~80kg
Insertion Loss*	18 dB(A)
Surface Density	$3 kg/m^2$
Setup Time	10 mins by 4 people
Standard Colour	Grey
Ideal Solution for	

- Hand-held Breaker
- Vibratory Poker
- Concrete Saw / Circular Saw, etc
- Hammering and other PCW





SilentCUBEs seamlessly connected with good gap sealing





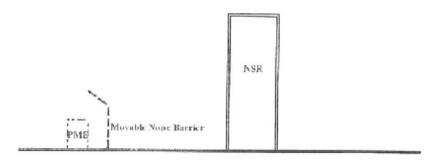




Tested with white noise source

Shatin to Central Link Works Contract 1108 – Kai Tak Station and Associated Tunnel

Section View of Movable Noise Barrier



Movable noise barrier composed of minimum 50mm thick sound absorbing lining and 10mm thick plywood (or 1mm thick steel) backing with a cantilevered upper portion located within 5m from any static or mobile plant. PME will be totally screened when viewed from the NSR.

Plan View of Movable Noise Barrier



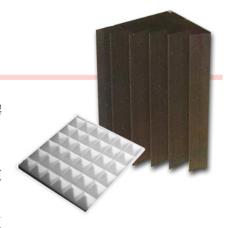
Static or mobile PME will be totally screened when viewed from the NSR.

吸音棉 SOUNDPROOF FOAM

吸音棉,學名爲阻燃聚氨酯聲學泡沫是一種新型吸聲材料,具有重量輕, 耐潮,可切割成形,施工安裝方便等優點。在泡沫塑料的背面塗上萬能膠 ,可將泡沫塑料吸音棉直接在需要吸聲的地方,施工十分方便。

吸音棉被廣泛應用於建築聲學和噪聲控制工程中,例如:隔聲屏吸聲層,空調消聲器,廠房車間吸聲降噪以及影劇院、禮堂、廣播電視錄音播音室 等工程中控制混響時間,音箱內的吸音及改善室內音質等等。

吸音棉具有獨特的構造,細微多孔隙能有效吸收衰減聲波的能量,波浪型和金字塔型吸音棉在中頻與高頻音(500Hz~2000Hz)之吸音效果甚佳。若是低頻音的處裡,則可選用三角柱體型,可將低頻做最大的降噪處理。



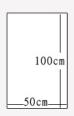
波浪型H25,H40,H50,H75 (經濟之選)

size: $1.5m \times 2m$

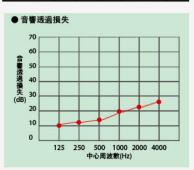
●厚度 2.5cm, 4.0cm, 5.0cm, 7.5cm

|--|--|

- ●規格 200cm X 100cm
- ●密度 16kg/m²
- ●顔色 黑色,白色和紫色



中心周波數 (Hz)	125	250	500	1000	2000	4000	
音響透過損失 (dB)	10	12	15	20	25	28	







金字塔型T50,T75 (質量之選)

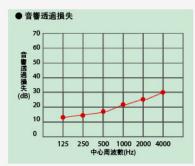
●厚度 5.0cm, 7.5cm

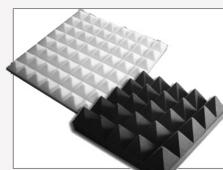


- ●規格 50cm X 50cm
- ●密度 18kg/m²
- ●顔色 黑色和白色



中心周波數 (Hz)	125	250	500	1000	2000	4000
音響透過損失 (dB)	12	15	18	22	27	30









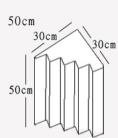
三角柱體型TR50 (重低音之選)



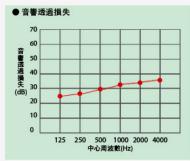
●規格 30cm x 30cm x 50cm

●密度 20kg/m²

●顔色 灰黑色



中心周波數 (Hz)	125	250	500	1000	2000	4000
音響透過損失 (dB)	25	28	30	32	34	36









Soundproof Testing

of

Foam







检验报告

玻纤质检 (WSW) 字 第 (1111875) 号



产品名称 波浪海棉

委托单位

检验类别

委托检验



国家玻璃纤维产品质量监督检验中心

检 验 报 告

玻纤质检 (WSW) 字 第 (1111875) 号 共 2 页 第 1 页

产品名称	隔音毡	规格型号	Vinco-2.0			
商标	坤耐	样品状态	海棉制品			
委托单位		检验类别	委托检验			
生产单位		样品等级				
抽样地点		送样日期	2011年11月29日			
样品数量	约(300×300)mm, 2块	送样者				
抽样基数		生产日期				
检验依据	试验方法详见附页	检验项目	隔声量			
检 验	样品经检验,隔声量测定值详见附页(第2页)。					
结			Sales Sales			
论	声明:本检验结论仅对来样负技术责任。 (检验服告表用管理)					
备						
注						
	2					

批准: 多克文世

献: 圣经夜

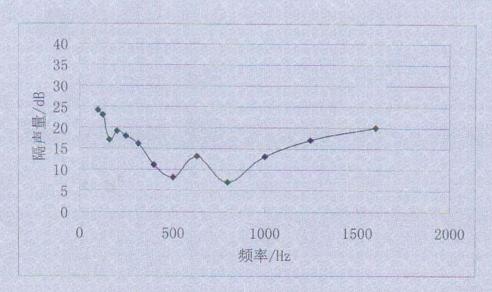


国家玻璃纤维产品质量监督检验中心

检验报告附页

玻纤质检 (WSW) 字 第 (1111875) 号 共 2 页 第 2 页

检验项	页 目	试验方法	测定值
	100Hz		24
	125Hz		23
	160Hz		17
	200Hz		19
	250Hz	阻抗管法	18
	315Hz		16
隔声量 dB	400 Hz		11
	500 Hz		8
	630 Hz		13
	800 Hz		6
	1000 Hz		13 H
	1250 Hz		16
	1600 Hz		20



Smouldering & Flammability Test

of

Foam



STC Test Report

Date: 2009-09-16

Page 1 of 3 (DUPLICATE)

No: HT196402

Description of Sample(s)

: Two (2) groups submitted sample in black colour said to be

(A) SPONGE

Size: 12 inch x 3 inch x ½ inch (20pcs)

(B) SPONGE

Size: 8 inch x 7 ½ inch x 2 inch (6pcs) 8 inch x 4 inch x 2 inch (6pcs)

Country of Destination: U.S.A

Date sample(s) Received

: (A) 2009-08-11

(B) 2009-09-11

Date Tested

: (A) 2009-08-11 to 2009-08-17

(B) 2009-09-11 to 2009-09-16

Investigation Requested

: Selected test(s) as detailed herein.

Conclusion(s)

1. The submitted sample A complied with CAL TB 117:2000

Section D Part II.

2. The submitted sample B complied with CAL TB 117: 2000

Section A Part I.

This Test Result of Sample A refers to our previous Test Report, HT196092 issued on 2009-08-17

CHENG Chun-yiu, David Authorized Signatory Textile and Materials Department For and on behalf of

The Hong Kong Standards and Testing Centre Ltd.

SATRA Accredited Laboratory International Safe Transit Association (ISTA) Certified Laboratory Members of Hong Kong Apparel Society Limited Approved Laboratory of The Woolwark Company The Govmark Fire Laboratories Certified Laboratory

Hong Kong Association for Testing. Inspection and Certification Limited Knitteear Innovation and Design Society (KIDS)

Hong Kong Pootwear Association
The Hong Kong Standards and Testing Centre Ltd.



STC Test Report

Date: 2009-09-16

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TEST RESULTS:

1. Smouldering Screening Test

Ref. California Technical Bulletin No. 117-2000, Section D, Part II, Resilient Cellular Materials

Test Method

The apparatus and methods of testing were those described in California Technical Bulletin No. 117, Section D, Part II, for testing the smouldering tendency of resilient cellular materials used in upholstered furniture.

Test Results: Sample A

<u>Trial</u>	Percentage (%) of non-smouldered residue	Comment
1	99.9	Pass
2	99.9	
3	99.9	
Average	99.9	
Requirement:	All test specimens greater than 80% non-smoulde	red residue.

2. Flammability Test

Ref. California Technical Bulletin No. 117-2000, Section A, Part I, Resilient Cellular Materials

Test Method

The apparatus and methods of testing were those described in California Technical Bulletin No. 117, Section A, Part I, for testing the flame retardancy of resilient cellular materials used in upholstered furniture.

Test Results: Sample B

Before Aging			
Specimen	After flame time	Char length	After glow time
	(nearest 0.1 second)	(nearest 0.1 inch)	(nearest 0.1 second)
1	Nil	1.6	Nil
2	Nil	2.1	Nil
3	Nil	2.6	Nil
4	Nil	1.7	Nil
5	Nil	2.1	Nil
Average	Nil	2.0	Nil
	<u>R</u>	equirement	
Individual	≤ 10 seconds	≤ 8 inches	1
Average	≤5 seconds	≤6 inches	≤ 15 seconds



Date: 2009-09-16

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TEST RESULTS:

fter Aging			
Specimen	After flame time	Char length	After glow time
=== vc	(nearest 0.1 second)	(nearest 0.1 inch)	(nearest 0.1 second)
1	Nil	1.5	Nil
2	Nil	2.3	Nil
3	Nil	1.6	Nil
4	Nil	1.9	Nil
5	Nil	2.3	Nil
Average	Nil	1.9	Nil
	R	equirement	
Individual	≤ 10 seconds	≤ 8 inches	1
Average	≤5 seconds	≤6 inches	≤15 seconds

Comment: Pass

***** End of Test Report *****

Hong Kong Job Reference

of

Foam



Job Reference

Soundproof Foam

Liantang/Heung Yuen Wai **Boundary Control Point** site formation and infrastructure works - Contract 5 CV/2012/09

Chun wo C&E Company Ltd

Residential Development RBL 1190, No v 8-12 Deep Water Bay Drive

K. H. Foundations Ltd



Contract No.: HY/2014/08 Central Kowloon Route -Yau Ma Tei East

Appendix G

Implementation Schedule of Proposed Mitigation Measures

Implementation Schedule of Mitigation Measures

CNMMP/	Proposed Mitigation Measures	Target PME	Implemented	Location	Period	Requirements
EIA Ref.			by			or Standard to
						be achieved
Paragraph 2,	Movable temporary noise barriers	Asphalt paver,	Main	All areas in CKR-	Apr 2018 – Nov	Annex 5, TM-
S3.2 of		excavator etc.	Contractor	YMTE	2024	EIAO
CNMMP						
Paragraph 2,	Noise enclosure	Air compressor,	Main	All areas in CKR-	Apr 2018 – Nov	Annex 5, TM-
S3.2 of		generator	Contractor	YMTE	2024	EIAO
CNMMP						
Paragraph 2,	Traffic decking over construction site	All PME to be	Main	Areas involving	Mar 2019 - Dec	Annex 5, TM-
S3.2 of		operated under	Contractor	excavation of cut	2023	EIAO
CNMMP		traffic deck		and cover tunnel		
Paragraph 2,	Noise barrier for building demolition	Crusher,	Main	Yau Ma Tei Mulit-	Mar 2021 – June	Annex 5, TM-
S3.2 of		breakers etc.	Contractor	storey Carpark	2021 & Mar 2023 –	EIAO
CNMMP				Building	May 2023	

CNMMP/	Proposed Mitigation Measures	Target PME	Implemented	Location	Period	Requirements
EIA Ref.			by			or Standard to
						be achieved
S5.4.1 of EIA	Implement the following good site					
report	practices:					
	 Only well-maintained plant 					
	should be operated on-site and					
	plant should be serviced					
	regularly during the construction					
	programme					
	Machines and plant (such as					
	trucks, cranes) that may be in					
	intermittent use should be shut	All PME	Main	All areas in CKR-	Apr 2018 – Nov	Annex 5, TM-
	down between work periods or		Contractor	YMTE	2024	EIAO
	should be throttled down to a					
	minimum;					
	Plant known to emit noise					
	strongly in one direction, where					
	possible, be orientated so that					
	the noise is directed away from					
	nearby NSRs;					
	Silencers or mufflers on					
	construction equipment should					

S5.4.1 of EIA report	be properly fitted and maintained during the construction works; Mobile plant should be sited as far away from NSRs as possible and practicable; Material stockpiles, mobile container site office and other structures should be effectively utilized, where practicable, to screen noise from on-site construction activities. Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of hoardings shall be properly maintained throughout the construction period.	All PME	Main Contractor	All areas in CKR- YMTE	Apr 2018 – Nov 2024	Annex 5, TM- EIAO
S5.4.1 of EIA	Use 'Quiet plant'	Refer to Table	Main	All areas in CKR-	Apr 2018 – Nov	Annex 5, TM-
report		2.2	Contractor	YMTE	2024	EIAO
S5.4.1 of EIA	Sequencing operation of construction	All PME	Main	All areas in CKR-	Apr 2018 – Nov	Annex 5, TM-
report	plants where practicable		Contractor	YMTE	2024	EIAO
S5.4.1 of EIA	Implement a noise monitoring	All PME	Main	Noise Sensitive	Apr 2018 – Nov	Annex 5, TM-
report	programme under EM&A programme		Contractor	Receivers	2024	EIAO