

Appendix 7A: Baseline Ambient Noise Results and Photographic Logs



CONFIDENTIAL

BASELINE NOISE SURVEY REPORT
NOISE MONITORING ENVIRONMENTAL WORK

REPORT REFERENCE NO: - 25022508/nms/ch2m/NM2GB/NM1

For

CH2M HILL SINGAPORE PTE LTD
150 Beach Road, Gateway West 34th Floor, Singapore 189720

Project Location:
NM1 EIA Gillman Barracks

Attention:
Ms Alicia Wong

Project Title.:
Baseline Noise Survey @ NM1 EIA Gillman Barracks

Monitoring Location:
NM1 (Front of Interlace Condominium 180 Depot Road)

Date of Monitoring:
11 February 2025 - 18 February 2025

Date of Report:
25 February 2025

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	TABLE OF CONTENT	PAGE
1.0	INTRODUCTION	3
2.0	NOISE SURVEY CONDITION	3
3.0	INSTRUMENTS	4
4.0	NOISE SURVEY TERMS	5
5.0	SURVEYING LOCATIONS	6
6.0	NOISE SURVEY RESULTS	7
7.0	SUMMARY	12
8.0	CONFIRMATION	12
	APPENDIX	
	APPENDIX A: INSTRUMENT LAYOUT PLAN	13
	APPENDIX B: NEA CONSTRUCTION NOISE CONTROL GUIDELINE	14
	APPENDIX C: NOISE MONITORING OFFICER CERTIFICATES	15
	APPENDIX D: INSTRUMENT CALIBRATION CERTIFICATES	17
	APPENDIX E: NOISE DATA	19

1.0 INTRODUCTION

ENSSCOM PTE LTD was commissioned by:

CH2M HILL Singapore Pte Ltd
150 Beach Road, Gateway West 34th Floor, Singapore 189720

The purpose of this survey was to assess the current acoustical environment to establish the baseline background noise level generated before start of construction activities for
Project Title - Baseline Noise Survey @ NM1 EIA Gillman Barracks

The survey is conducted in accordance to the Construction Noise control Guideline on NEA's permissible noise levels for construction sites and industrial premises.

2.0 NOISE SURVEY CONDITION

Report Reference No: 25022508/nms/ch2m/NM2GB/NM1

Date of Report: 25-Feb-2025

Survey On: 11-Feb-2025 (0700hrs) to 18-Feb-2025 (0700hrs)

Operating Condition of Site: All operations were under normal conditions during the noise survey. Construction activities have not begun during period of noise monitoring.

Noise survey was conducted using accepted standard procedures and appropriate sound measuring equipment, which is properly calibrated to ensure accuracy.

All noise measurements were made in terms of A-weighted equivalent continuous sound pressure level in LAeq,T over a period of time T. For example, LAeq,5min are the equivalent sound pressure level measured over a 5-minutes time.

Noise survey was conducted for a full continuous twenty-four (24) hours, Seven (7) days, for **One (1) monitoring points/location**. The noise levels emitted were monitored accordingly and recorded.

The survey is conducted by qualified noise monitoring personnel and reference to Appendix C for their certificate.

3.0 INSTRUMENTS

Monitoring instrument was positioned at between 1.5 meters to 3 meters in height from the floor (Ground Level), Mid Level (5 – 6 storey building height) Or High Level (Roof Level). Overall noise distribution was fairly homogenous throughout the duration of noise survey.

Sound Level Meter used complies and conform to the minimum requirements of a Type 1/Class 1 instrument specified in the International Electrotechnical Commission (IEC) publications of 60651 and 60804.

Before and after the noise measurements, the sound level meter is calibrated to verify the accuracy of the instrument.

3.1 Sound Level Meters

CIRRUS RESEARCH plc, Model: CR191SG
Class 1 Data Logging Sound Level Meter
Serial Number: **G080531**

3.2 Acoustic Calibrator

CIRRUS RESEARCH plc, Model: CR515
Acoustic Calibrator
Serial Number: **60614**

Acoustic Pressure level:	94.01 dB	(reference 20uPa)
Step +20dB:	113.93 dB	
Nominal Frequency:	992 Hz	

The calibration certificate of the monitoring instrument can be found in Appendix D

4.0 NOISE SURVEY TERMS

- 4.1 A Weighting
A standard weighting of the audible frequencies designed to reflect the response of the human ear to noise.
- 4.2 Acoustic Calibrator
An instrument that provides a reference noise source that is used to calibrate and check the performance of a Sound Level Meter.
- 4.3 Broadband
Noise Measurements using parameters, which include all the audible noise
- 4.4 dB(A)
Decibels A Weighted
- 4.5 Decibel (dB)
The units of sound level and noise exposure measurement
- 4.6 Fast Time Weighting
A standard time weighting applied by the Sound Level Meter
- 4.7 IEC 60651:1979
The International Standard for Sound Level Meters
- 4.8 IEC 60804:1984
The International Standard for Integrating & Integrating-Averaging Sound Level Meters
- 4.9 IEC 61260:1995
The International Standard for 1:1 Octave & 1:3 Octave Band Filters
- 4.10 IEC 61672-1:2003
The International Standard for Sound Level Meter and Integrating Averaging Sound Level Meters that replaces both IEC 60651 and IEC 60804
- 4.11 Integrating Averaging Sound Level Meter
A Sound Level Meter which accumulates the total sound energy over a measurement period and calculates an average
- 4.12 LAeq,t
Equivalent continuous sound pressure level. A measure of the average sound pressure level during a period of time, t, in dB with 'A' weighting.
- 4.13 Sound Level
Sound Pressure Level with a Frequency weighting, such as dB(A)
- 4.14 Sound Level Meter
An instrument for measuring various noise parameters
- 4.15 Sound Pressure Level, SPL.
The basic measure of noise loudness, expressed in decibels

5.0 SURVEYING LOCATIONS

To carry out One (1) monitoring points/locations for continuous twenty-four (24) hours, Seven (7) days noise monitoring at the boundary of proposed construction site. (Refer to Appendix A for instrument layout plan)

Possible noise contribution source and occurrence:

NOISE MONITORING LOCATION	NOISE SOURCE	OCCURRENCE
Point 1: Front of Interlace Condominium 	Vehicle Traffic	Medium - Along Depot Road

Note: The above-mentioned noise sources may be limited and there are possible other noise sources not detected during the time of our site survey. For example, possible noise sources can be from occasional aircraft noise, or other activities nearby to the monitoring points.

6.0 NOISE SURVEY RESULTS

The noise survey was carried out in accordance with the Environmental Pollution Control Act (Chapter 94A, Section 77(1)), Environmental Pollution Control (Control of Noise at Construction Sites) Regulations, 1999.

Monday to Saturday

Types of Affected Building	Maximum Noise Level Permitted for construction sites (reckoned as an equivalent continuous noise level over a period of 5 minutes) in decibel (A)		
	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospitals, Schools, Institutions of Higher Learning, Homes for aged, Sick, etc	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	60 (LEQ 12hr)	50 (LEQ 12hr)	
(b) Residential Buildings Located less than 150m from the construction site where noise is being emitted	90 (Leq 5min)	70 (Leq 5min)	55 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 1hr)	55 (LEQ 1hr)
(c) Buildings (other than those in Paragraphs (a) and (b) above	90 (Leq 5min)	70 (Leq 5min)	70 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 12hr)	

Sunday and Public Holidays

Types of Affected Building	Maximum Noise Level Permitted for construction sites (reckoned as an equivalent continuous noise level over a period of 5 minutes) in decibel (A)		
	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospitals, Schools, Institutions of Higher Learning, Homes for aged, Sick, etc	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	60 (LEQ 12hr)	50 (LEQ 12hr)	
(b) Residential Buildings Located less than 150m from the construction site where noise is being emitted	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	75 (LEQ 12hr)	-	-
(c) Buildings (other than those in Paragraphs (a) and (b) above	90 (Leq 5min)	70 (Leq 5min)	70 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 12hr)	

Note:

No Work Rule on Sundays and Public Holidays

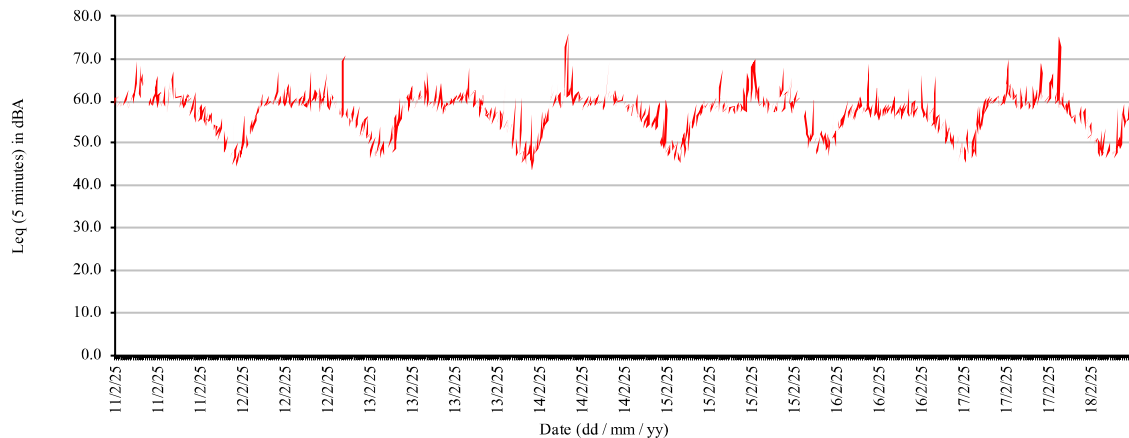
In addition to the settings of the permissible noise limits, NEA has also implemented a rule on prohibition of work on Sundays and Public Holidays (PH) for construction sites located within 150m away from residential premises and noise sensitive premises as follows:

Site Established from 1 September 2011. No work is allowed from 10.00pm on Sat/eve of PH to 7.00am on the following Mon/day after the PH. (For details, please refer to Appendix B)

Survey Results for monitoring point 1 from period : 11-Feb-2025 to 18-Feb-2025

Location : NM1 (Front of Interlace Condominium 180 Depot Road)

Leq (5 Minutes) Plotted Against Date of Monitoring



Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 5 min in Leq db(A)	Maximum Noise Level permitted for construction sites Leq 5min db (A)
No. NM-1		From		To			
NM1 (Front of Interface Condominium 180 Depot Road)	Tue	11/2/25	0700	11/2/25	1900	69.6	90
	Tue	11/2/25	1900	11/2/25	2200	62.3	70
	Tue/Wed	11/2/25	2200	12/2/25	0700	59.8	55
	Wed	12/2/25	0700	12/2/25	1900	67.1	90
	Wed	12/2/25	1900	12/2/25	2200	70.8	70
	Wed/Thu	12/2/25	2200	13/2/25	0700	60.6	55
	Thu	13/2/25	0700	13/2/25	1900	67.8	90
	Thu	13/2/25	1900	13/2/25	2200	61.7	70
	Thu/Fri	13/2/25	2200	14/2/25	0700	64.6	55
	Fri	14/2/25	0700	14/2/25	1900	75.8	90
	Fri	14/2/25	1900	14/2/25	2200	61.6	70
	Fri/Sat	14/2/25	2200	15/2/25	0700	60.4	55
	Sat	15/2/25	0700	15/2/25	1900	69.7	90
	Sat	15/2/25	1900	15/2/25	2200	67.8	70
	Sat/Sun	15/2/25	2200	16/2/25	0700	65.6	55
	Sun	16/2/25	0700	16/2/25	1900	68.7	75
	Sun	16/2/25	1900	16/2/25	2200	66.1	55
	Sun/Mon	16/2/25	2200	17/2/25	0700	66.2	55
	Mon	17/2/25	0700	17/2/25	1900	75.2	90
	Mon	17/2/25	1900	17/2/25	2200	62.3	70
	Mon/Tue	17/2/25	2200	18/2/25	0700	65.2	55

Table 6.1 Summary of Noise Monitoring Results at Maximum Equivalent of LEQ 5 min

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 1 hr in Leq db(A) for the specific period	Maximum Noise Level permitted for construction sites Leq 1 hr db (A)
No. NM-1		From		To			
NM1 (Front of Interface Condominium 180 Depot Road)	Tue	11/2/25	1900	11/2/25	2200	59.7	65
	Tue	11/2/25	2200	12/2/25	0700	57.6	55
	Wed	12/2/25	1900	12/2/25	2200	63.3	65
	Wed	12/2/25	2200	13/2/25	0700	57.5	55
	Thu	13/2/25	1900	13/2/25	2200	59.2	65
	Thu	13/2/25	2200	14/2/25	0700	57.7	55
	Fri	14/2/25	1900	14/2/25	2200	58.5	65
	Fri	14/2/25	2200	15/2/25	0700	56.1	55
	Sat	15/2/25	1900	15/2/25	2200	62.8	65
	Sat	15/2/25	2200	16/2/25	0700	60.7	55
	Sun	16/2/25	1900	16/2/25	2200	59.9	-
	Sun	16/2/25	2200	17/2/25	0700	58.5	-
	Mon	17/2/25	1900	17/2/25	2200	59.4	65
	Mon	17/2/25	2200	18/2/25	0700	59.6	55

Table 6.2 Summary of Noise Monitoring Results at Maximum Equivalent of LEQ 1 hr

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 12 hr in Leq db(A)	Maximum Noise Level permitted for construction sites Leq 12 hr db (A)
No. NM-1		From		To			
NM1 (Front of Interface Condominium 180 Depot Road)	Tue	11/2/25	0700	11/2/25	1900	62.1	75
	Tue	11/2/25	1900	12/2/25	0700	55.2	-
	Wed	12/2/25	0700	12/2/25	1900	60.7	75
	Wed	12/2/25	1900	13/2/25	0700	56.7	-
	Thu	13/2/25	0700	13/2/25	1900	60.8	75
	Thu	13/2/25	1900	14/2/25	0700	55.7	-
	Fri	14/2/25	0700	14/2/25	1900	62.2	75
	Fri	14/2/25	1900	15/2/25	0700	55.4	-
	Sat	15/2/25	0700	15/2/25	1900	60.8	75
	Sat	15/2/25	1900	16/2/25	0700	58.1	-
	Sun	16/2/25	0700	16/2/25	1900	58.4	75
	Sun	16/2/25	1900	16/2/25	0700	55.7	-
	Mon	16/2/25	0700	17/2/25	1900	62.4	75
	Mon	17/2/25	1900	18/2/25	0700	55.8	-

Table 6.3 Summary of Noise Monitoring Results at LEQ 12 hr

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over specific period in Leq db(A)	Maximum Noise Level permitted for construction sites in db (A)
No. NM-1		From		To			
NM1 (Front of Interface Condominium 180 Depot Road)	Tue	11/2/25	700	11/2/25	1900	62.1	90 (Leq5min) 75 (Leq12hrs)
	Tue	11/2/25	1900	11/2/25	2200	58.0	70 (Leq5min) 65 (Leq 1hr)
	Tue	11/2/25	2200	12/2/25	0000	55.5	55 (Leq5min) 55 (Leq 1hr)
	Wed	12/2/25	0000	12/2/25	700	53.0	55 (Leq5min) 55 (Leq 1hr)
	Wed	12/2/25	700	12/2/25	1900	60.7	90 (Leq5min) 75 (Leq12hrs)
	Wed	12/2/25	1900	12/2/25	2200	60.6	70 (Leq5min) 65 (Leq 1hr)
	Wed	12/2/25	2200	13/2/25	0000	55.6	55 (Leq5min) 55 (Leq 1hr)
	Thu	13/2/25	0000	13/2/25	700	53.4	55 (Leq5min) 55 (Leq 1hr)
	Thu	13/2/25	700	13/2/25	1900	60.8	90 (Leq5min) 75 (Leq12hrs)
	Thu	13/2/25	1900	13/2/25	2200	58.1	70 (Leq5min) 65 (Leq 1hr)
	Thu	13/2/25	2200	14/2/25	0000	56.6	55 (Leq5min) 55 (Leq 1hr)
	Fri	14/2/25	0000	14/2/25	700	53.6	55 (Leq5min) 55 (Leq 1hr)
	Fri	14/2/25	700	14/2/25	1900	62.2	90 (Leq5min) 75 (Leq12hrs)
	Fri	14/2/25	1900	14/2/25	2200	58.0	70 (Leq5min) 65 (Leq 1hr)
	Fri	14/2/25	2200	15/2/25	0000	56.0	55 (Leq5min) 55 (Leq 1hr)
	Sat	15/2/25	0000	15/2/25	700	53.2	55 (Leq5min) 55 (Leq 1hr)
	Sat	15/2/25	700	15/2/25	1900	60.8	90 (Leq5min) 75 (Leq12hrs)
	Sat	15/2/25	1900	15/2/25	2200	61.1	70 (Leq5min) 65 (Leq 1hr)
	Sat	15/2/25	2200	16/2/25	0000	60.6	55 (Leq5min) 55 (Leq 1hr)
	Sun	16/2/25	0000	16/2/25	700	53.6	55 (Leq5min) 55 (Leq 1hr)
	Sun	16/2/25	700	16/2/25	1900	58.4	75 (Leq5min) 75 (Leq 1hr)
	Sun	16/2/25	1900	16/2/25	2200	58.2	55 (Leq5min)
	Sun	16/2/25	2200	17/2/25	0000	56.6	55 (Leq5min)
	Mon	17/2/25	0000	17/2/25	700	53.5	55 (Leq5min)
	Mon	17/2/25	700	17/2/25	1900	62.4	90 (Leq5min) 75 (Leq12hrs)
	Mon	17/2/25	1900	17/2/25	2200	58.1	70 (Leq5min) 65 (Leq 1hr)
	Mon	17/2/25	2200	17/2/25	0000	55.9	55 (Leq5min) 55 (Leq 1hr)
	Tue	18/2/25	0000	18/2/25	0700	54.1	55 (Leq5min) 55 (Leq 1hr)

Table 6.4 Summary of Noise Monitoring Results at Continuous Equivalent of LEQ for specific period

7.0 SUMMARY

The purpose of this survey was to assess the current acoustical environment to establish the background noise level generated over One (1) monitoring point/location for continuous twenty-four (24) hours and seven (7) days noise monitoring at the boundary of the project site for Project Title

Baseline Noise Survey @ NM1 EIA Gillman Barracks

The location of the nearest Noise Receiver (NSR) : **NM1 (Front of Interlace Condominium 180 Depot Road)**

The findings show that,

The ambience noise at NSR NM1 In Front of 180 Depot Road , Interlace Condominium (Ground Level), falls within the Permissible limits stated in the NEA Guideline on construction noise control for the time period between 7am to 10pm (Leq5min & Leq12hrs) (Monday to Saturday) most of the time.

The Leq 5min occasionally exceeds the NEA noise limit (55dBa) for the period 2200hrs to 0700hrs on weekdays and weekend.

The Leq 1hr occasionally exceeds the NEA noise limit (55dBa) for the period 2200hrs to 0700hrs on weekdays.

* Refer to Appendix E for full noise data report.

We recommend submitting an appeal to NEA to adjust the Noise Limit as in table 6.5 for NSR NM1 In Front of 180 Depot Road , Interlace Condominium (Ground Level)

Background Noise Correction Factor

The adjusted value for the maximum noise level shall be obtained by adding the correction factor corresponding to the difference between the maximum permitted level and the background noise level, set out in the Table below, to the higher of the 2 noise levels.

Difference between 2 noise levels in decibels (A)	Correction factor in decibels (A)
a) Below 2	3
b) 2 to less than 4	2
c) 4 to less than 10	1
d) 10 and above	NIL

Proposed New Permissible Noise Level for monitoring point: **NM1 (Front of Interlace Condominium 180 Depot Road)**

Period	Noise Limit	*Equivalent continuous sound level over period in Leq dB(A) - Background Noise	Difference	Correction Factor	Proposed Adjusted New Permissible Level (dBA)
7am to 7pm (Monday to Saturday)	90 (Leq 5min)	62.4	27.6	0	90 (Leq 5min)
	75 (Leq 12hr)	62.4	12.6	0	75 (Leq 12hr)
7pm to 10pm (Monday to Saturday)	70 (Leq 5min)	61.1	8.9	1	71 (Leq 5min)
	65 (Leq 1 hr)	61.1	3.9	2	67 (Leq 1 hr)
10pm to 12am (Monday to Saturday)	55 (Leq 5min)	60.6	-5.6	1	61.6 (Leq 5min)
	55 (Leq 1 hr)	60.6	-5.6	1	61.6 (Leq 1 hr)
12am to 7am (Monday to Saturday)	55 (Leq 5min)	54.1	0.9	3	58 (Leq 5min)
	55 (Leq 1 hr)	54.1	0.9	3	58 (Leq 1 hr)
7am to 7pm (Sunday)	75 (Leq 5min)	58.4	16.6	0	75 (Leq 5min)
	75 (Leq 12hr)	58.4	16.6	0	75 (Leq 12hr)
7pm to 10pm (Sunday)	55 (Leq 5min)	58.2	-3.2	2	60.2 (Leq 5min)
10pm to 12am (Sunday)	55 (Leq 5min)	56.6	-1.6	3	59.6 (Leq 5min)
12am to 7am (Sunday)	55 (Leq 5min)	53.6	1.4	3	58 (Leq 5min)

* The highest equivalent continuous sound level in Leq dB(A) between Monday to Saturday is taken for calculating the adjusted new permissible level for each period.

Table 6.5 Proposed New Permissible Noise Level

8.0 CONFIRMATION

We, ENSSCOM PTE LTD, certify that the information given is correct. The noise survey was conducted for

CH2M HILL Singapore Pte Ltd
150 Beach Road, Gateway West 34th Floor, Singapore 189720

To carry out One (1) monitoring points/locations for continuous twenty-four (24) hours and seven (7) days noise monitoring at the boundary of the project site for Project Title

Baseline Noise Survey @ NM1 EIA Gillman Barracks

was carried out as described in this report and the results resented herein.

Date of Monitoring:

(0700hrs
From 11/2/25) to 18/2/25 (0700hrs)

Hoo Hian Choon (Mr)
Noise Monitoring Consultant
25-Feb-2025

APPENDIX A : INSTRUMENT LAYOUT PLAN



APPENDIX B: NEA CONSTRUCTION NOISE CONTROL GUIDELINE

Construction Noise Control

Maximum Permissible Noise Levels for Construction Work Commenced on or after 1st October 2007

Noise Regulation

Mondays to Saturdays

Types of affected buildings	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospital, schools, institutions of higher learning, homes for aged sick, etc.	60 dBA (Leq* 12 hrs)	50 dBA (Leq 12 hrs)	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(b) Residential buildings located less than 150m from the construction site	75 dBA (Leq 12 hrs)	65 dBA (Leq 1 hr)	55 dBA (Leq 1 hr)
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)
(c) Buildings other than those in (a) and (b) above	75 dBA (Leq 12 hrs)	65 dBA (Leq 12 hrs)	
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	

Sundays and Public Holidays

Types of affected buildings	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospital, schools, institutions of higher learning, homes for aged sick, etc.	60 dBA (Leq* 12 hrs)	50 dBA (Leq 12 hrs)	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(b) Residential buildings located less than 150m from the construction site	75 dBA (Leq 12 hrs)	-	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(c) Buildings other than those in (a) and (b) above	75 dBA (Leq 12 hrs)	65 dBA (Leq 12 hrs)	
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	

APPENDIX C: NOISE MONITORING OFFICER CERTIFICATES

S/No: 02/20/159



Acoustical Laboratory Pte Ltd
CENTRE FOR ENVIRONMENTAL CONSULTATION AND TRAINING

Certificate of Competence

This is to certify that

Hoo Hian Choon

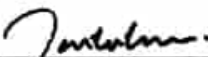
has attended and passed an examination
for a course on

Noise Monitoring

held between 22nd May 2002 and 24th May 2002

Acoustical Laboratory is approved by the Ministry of
Labour as a Training Centre for the
Noise Monitoring Course




Tan Kok Yang
Course Co-ordinator


Koh L. B.
Managing Director



This is to certify that

Hoo Hian Choon

has successfully completed the 2½-day course

Industrial Noise Control

A handwritten signature in black ink, reading "Seah Ben Han".

Seah Ben Han
Director
Centre for Continuing Education

27 August 2010

APPENDIX D: INSTRUMENT CALIBRATION CERTIFICATES



Certificate of Calibration

Equipment Details

Instrument Manufacturer	Cirrus Research plc
Instrument Type	CR 191-80
Description	Sound Level Meter
Serial Number	CE90511

Calibration Procedure

The instrument details above have been calibrated to the published test and calibration data as detailed in the instrument hand book, using the techniques recommended in the latest revisions of the International Standards IEC 61672-1:2013, IEC 61672-1:2003, IEC 61672-1:2009, IEC 61672-1:2001, IEC 61672-1:1995, IEC 61672-1:2003, IEC 61672-1:1997, IEC 61252:1990, ANSI S1.1-1980, ANSI S1.11-1996 and ANSI S1.43-1997 where applicable.
Sound Level Meter: All Calibration procedures were carried out by substituting the microphone capsule with a suitable electrical signal, apart from the final acoustic calibration.

Calibration Traceability

The instrument details above was calibrated against the calibration laboratory standards held by Cirrus Research plc. These are traceable to International standards (4 n 6). The standards are:

Mini Acoustic Calibrator	B & K 4226	Serial Number	3043345	Calibration Ref	552563-030654943
Microphone type	MK 224	Serial Number	7149574	Calibration Ref	506903

Calibrated by

Calibration Date

21 January 2025

Calibration Certificate Number

258012

This Calibration Certificate is valid for 12 months from the date above

Cirrus Research plc, Acoustic House, Driffield Road, Hammanby, North Yorkshire, YO14 0PL
Telephone: +44 (0) 1753 89 655 Fax: +44 (0) 1753 891742
Email: sales@cirrusresearch.co.uk

CERTIFICATE OF CALIBRATION

ISSUED BY Cirrus Research plc

DATE OF ISSUE 03 January 2025 CERTIFICATE NUMBER 229571



Cirrus Research plc
Acoustic House
Bridlington Road
Hunmanby
North Yorkshire
YO14 0PH
United Kingdom

Page 1 of 2

Approved signatory

A. Windress

Electronically signed

Sound Calibrator : IEC 60942:2003

Instrument information

Manufacturer: Cirrus Research plc

Notes:

Model: CR.515

Serial number: 60614

Class: 1

Test summary

Date of calibration: 03 January 2025

The sound calibrator detailed above has been calibrated to the published data as described in the operating manual and in the half-inch configuration. The procedures and techniques used are as described in IEC60942_2003 Annex B – Periodic Tests and three determinations of the sound pressure level, frequency and total distortion were made.

The sound pressure level was measured using a W52F condenser microphone type MK-224 manufactured by Cirrus Research plc.

The results have been corrected to the reference pressure of 101.33 kPa using the manufacturer's data.

As public evidence was available, from a testing organisation responsible for approving the results of pattern evaluation tests, to demonstrate that the model of sound calibrator fully conformed to the requirements for pattern evaluation described in Annex A of IEC 60942:2003, the sound calibrator tested is considered to conform to all the Class 1 requirements of IEC 60942:2003.

The manufacturer's product information indicates that this model of sound calibrator has been formally pattern approved to IEC60942_2003 Annex A to Class 1. This has been confirmed by Laboratoire National d'Essais (LNE), Physikalisch-Technische Bundesanstalt (PTB) and APPLUS (APPLUS).

Notes:

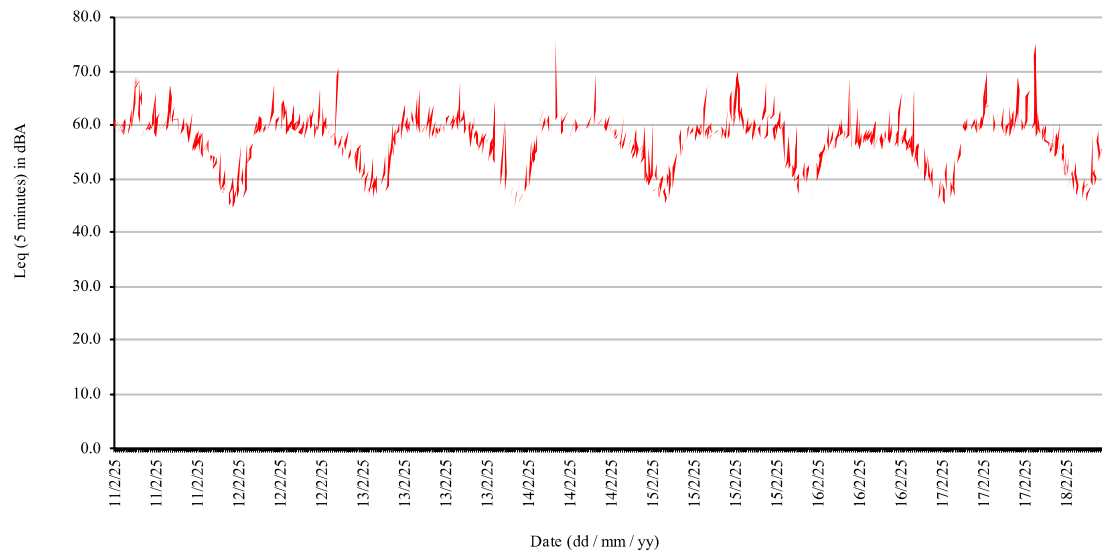
This certificate provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory. The results within this certificate relate only to the items calibrated. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%.

APPENDIX E

CONSTRUCTION SITE NOISE MONITORING DATA AND CHART

NAME OF COMPANY	CH2M HILL Singapore Pte Ltd		
SITE LOCATION	NM1 EIA Gillman Barracks		
REPORT REFERENCE	11/02/2025 - 18/02/2025		
MODE	Environment	FREQUENCY WEIGHTING	A

Leq (5 Minutes) Plotted Against Date of Monitoring



NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM1 EIA Gillman Barracks								
REPORT REFERENCE			11/02/2025 - 18/02/2025								
Start	11/2/25		7:05	Leq12h			62.1	Weighting		A	
End	11/2/25		19:00								
Date	Time	Leq5m		Date	Time	Leq5m		Date	Time	Leq5m	
11/2/25	7:05	60.8		11/2/25	11:05	67.6		11/2/25	15:05	63.8	
11/2/25	7:10	59.0		11/2/25	11:10	64.9		11/2/25	15:10	61.5	
11/2/25	7:15	59.5		11/2/25	11:15	61.9		11/2/25	15:15	60.0	
11/2/25	7:20	61.0		11/2/25	11:20	60.5		11/2/25	15:20	59.3	
11/2/25	7:25	59.5		11/2/25	11:25	61.7		11/2/25	15:25	58.8	
11/2/25	7:30	60.5		11/2/25	11:30	66.4		11/2/25	15:30	60.9	
11/2/25	7:35	58.5		11/2/25	11:35	65.1		11/2/25	15:35	58.5	
11/2/25	7:40	60.0		11/2/25	11:40	63.5		11/2/25	15:40	57.5	
11/2/25	7:45	59.7		11/2/25	11:45	65.4		11/2/25	15:45	64.5	
11/2/25	7:50	59.6		11/2/25	11:50	61.5		11/2/25	15:50	62.2	
11/2/25	7:55	60.2		11/2/25	11:55	57.8		11/2/25	15:55	59.0	
11/2/25	8:00	58.9		11/2/25	12:00	60.2		11/2/25	16:00	63.8	
11/2/25	8:05	60.2		11/2/25	12:05	59.5		11/2/25	16:05	59.8	
11/2/25	8:10	59.3		11/2/25	12:10	59.3		11/2/25	16:10	62.8	
11/2/25	8:15	60.5		11/2/25	12:15	59.8		11/2/25	16:15	63.4	
11/2/25	8:20	60.3		11/2/25	12:20	66.2		11/2/25	16:20	63.2	
11/2/25	8:25	60.6		11/2/25	12:25	59.9		11/2/25	16:25	67.1	
11/2/25	8:30	58.9		11/2/25	12:30	62.2		11/2/25	16:30	65.1	
11/2/25	8:35	58.2		11/2/25	12:35	62.2		11/2/25	16:35	65.4	
11/2/25	8:40	60.4		11/2/25	12:40	59.0		11/2/25	16:40	60.4	
11/2/25	8:45	61.1		11/2/25	12:45	59.7		11/2/25	16:45	61.7	
11/2/25	8:50	61.5		11/2/25	12:50	60.7		11/2/25	16:50	60.2	
11/2/25	8:55	60.2		11/2/25	12:55	60.4		11/2/25	16:55	63.3	
11/2/25	9:00	59.6		11/2/25	13:00	59.3		11/2/25	17:00	63.4	
11/2/25	9:05	62.6		11/2/25	13:05	58.9		11/2/25	17:05	60.8	
11/2/25	9:10	58.5		11/2/25	13:10	59.4		11/2/25	17:10	60.3	
11/2/25	9:15	59.9		11/2/25	13:15	60.5		11/2/25	17:15	60.7	
11/2/25	9:20	58.2		11/2/25	13:20	59.0		11/2/25	17:20	60.6	
11/2/25	9:25	59.5		11/2/25	13:25	60.6		11/2/25	17:25	60.4	
11/2/25	9:30	60.4	11/2/25	13:30	60.6	11/2/25	17:30	61.2			
11/2/25	9:35	59.2	11/2/25	13:35	60.5	11/2/25	17:35	60.1			
11/2/25	9:40	63.2	11/2/25	13:40	61.6	11/2/25	17:40	61.3			
11/2/25	9:45	59.8	11/2/25	13:45	66.0	11/2/25	17:45	61.1			
11/2/25	9:50	63.0	11/2/25	13:50	61.6	11/2/25	17:50	58.4			
11/2/25	9:55	61.0	11/2/25	13:55	62.8	11/2/25	17:55	60.0			
11/2/25	10:00	59.6	11/2/25	14:00	58.5	11/2/25	18:00	58.7			
11/2/25	10:05	61.0	11/2/25	14:05	57.8	11/2/25	18:05	61.7			
11/2/25	10:10	62.6	11/2/25	14:10	60.4	11/2/25	18:10	59.0			
11/2/25	10:15	59.4	11/2/25	14:15	61.1	11/2/25	18:15	59.9			
11/2/25	10:20	59.2	11/2/25	14:20	60.9	11/2/25	18:20	59.9			
11/2/25	10:25	64.2	11/2/25	14:25	62.2	11/2/25	18:25	58.2			
11/2/25	10:30	69.2	11/2/25	14:30	58.7	11/2/25	18:30	59.4			
11/2/25	10:35	66.6	11/2/25	14:35	60.0	11/2/25	18:35	59.9			
11/2/25	10:40	69.6	11/2/25	14:40	59.9	11/2/25	18:40	59.3			
11/2/25	10:45	67.0	11/2/25	14:45	60.2	11/2/25	18:45	61.6			
11/2/25	10:50	68.1	11/2/25	14:50	58.9	11/2/25	18:50	58.8			
11/2/25	10:55	67.1	11/2/25	14:55	60.1	11/2/25	18:55	60.4			
11/2/25	11:00	68.5	11/2/25	15:00	59.0	11/2/25	19:00	60.9			

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM1 EIA Gillman Barracks							
REPORT REFERENCE				11/02/2025 - 18/02/2025							
Start	11/2/25	19:05		Leq12h	55.2			Weighting		A	
End	12/2/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
11/2/25	19:05	60.9	59.7	11/2/25	23:05	55.1	54.8	12/2/25	3:05	46.3	47.2
11/2/25	19:10	61.0		11/2/25	23:10	59.3		12/2/25	3:10	44.7	
11/2/25	19:15	59.9		11/2/25	23:15	53.6		12/2/25	3:15	45.8	
11/2/25	19:20	60.8		11/2/25	23:20	54.2		12/2/25	3:20	46.2	
11/2/25	19:25	59.7		11/2/25	23:25	56.7		12/2/25	3:25	48.9	
11/2/25	19:30	59.0		11/2/25	23:30	53.2		12/2/25	3:30	48.9	
11/2/25	19:35	56.5		11/2/25	23:35	54.3		12/2/25	3:35	46.0	
11/2/25	19:40	58.5		11/2/25	23:40	53.7		12/2/25	3:40	46.1	
11/2/25	19:45	58.4		11/2/25	23:45	51.7		12/2/25	3:45	49.5	
11/2/25	19:50	58.7		11/2/25	23:50	54.1		12/2/25	3:50	48.0	
11/2/25	19:55	58.1	56.9	11/2/25	23:55	52.3	53.8	12/2/25	3:55	46.6	51.3
11/2/25	20:00	62.3		11/2/25	0:00	53.0		12/2/25	4:00	46.6	
11/2/25	20:05	57.2		12/2/25	0:05	54.1		12/2/25	4:05	50.4	
11/2/25	20:10	59.1		12/2/25	0:10	53.4		12/2/25	4:10	56.2	
11/2/25	20:15	56.6		12/2/25	0:15	50.5		12/2/25	4:15	49.5	
11/2/25	20:20	55.1		12/2/25	0:20	53.6		12/2/25	4:20	50.4	
11/2/25	20:25	57.3		12/2/25	0:25	56.1		12/2/25	4:25	46.8	
11/2/25	20:30	56.0		12/2/25	0:30	53.5		12/2/25	4:30	49.7	
11/2/25	20:35	55.6		12/2/25	0:35	50.8		12/2/25	4:35	47.9	
11/2/25	20:40	58.5		12/2/25	0:40	57.4		12/2/25	4:40	52.1	
11/2/25	20:45	55.0	56.7	12/2/25	0:45	51.3	48.6	12/2/25	4:45	49.9	53.7
11/2/25	20:50	56.0		12/2/25	0:50	55.3		12/2/25	4:50	48.7	
11/2/25	20:55	58.2		12/2/25	0:55	53.0		12/2/25	4:55	49.1	
11/2/25	21:00	56.0		12/2/25	1:00	49.9		12/2/25	5:00	54.1	
11/2/25	21:05	59.1		12/2/25	1:05	47.8		12/2/25	5:05	46.6	
11/2/25	21:10	56.8		12/2/25	1:10	48.7		12/2/25	5:10	47.9	
11/2/25	21:15	58.5		12/2/25	1:15	49.0		12/2/25	5:15	51.2	
11/2/25	21:20	55.6		12/2/25	1:20	48.2		12/2/25	5:20	56.2	
11/2/25	21:25	54.9		12/2/25	1:25	48.3		12/2/25	5:25	56.7	
11/2/25	21:30	55.3		12/2/25	1:30	49.3		12/2/25	5:30	52.1	
11/2/25	21:35	57.3	56.1	12/2/25	1:35	51.7	50.0	12/2/25	5:35	53.8	57.6
11/2/25	21:40	58.7		12/2/25	1:40	47.2		12/2/25	5:40	55.3	
11/2/25	21:45	55.5		12/2/25	1:45	47.6		12/2/25	5:45	52.8	
11/2/25	21:50	55.4		12/2/25	1:50	49.4		12/2/25	5:50	53.9	
11/2/25	21:55	54.9		12/2/25	1:55	46.6		12/2/25	5:55	54.0	
11/2/25	22:00	54.2		12/2/25	2:00	46.6		12/2/25	6:00	54.6	
11/2/25	22:05	56.5		12/2/25	2:05	52.9		12/2/25	6:05	55.5	
11/2/25	22:10	57.2		12/2/25	2:10	46.5		12/2/25	6:10	55.0	
11/2/25	22:15	55.0		12/2/25	2:15	48.0		12/2/25	6:15	56.8	
11/2/25	22:20	56.3		12/2/25	2:20	48.0		12/2/25	6:20	55.8	
11/2/25	22:25	56.0	56.1	12/2/25	2:25	45.8	50.0	12/2/25	6:25	56.4	57.6
11/2/25	22:30	55.1		12/2/25	2:30	56.0		12/2/25	6:30	56.5	
11/2/25	22:35	57.0		12/2/25	2:35	45.2		12/2/25	6:35	57.2	
11/2/25	22:40	55.7		12/2/25	2:40	46.9		12/2/25	6:40	59.0	
11/2/25	22:45	57.4		12/2/25	2:45	48.4		12/2/25	6:45	59.4	
11/2/25	22:50	55.3		12/2/25	2:50	48.3		12/2/25	6:50	57.9	
11/2/25	22:55	56.2		12/2/25	2:55	48.3		12/2/25	6:55	59.8	
11/2/25	23:00	54.7		12/2/25	3:00	50.1		12/2/25	7:00	58.3	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM1 EIA Gillman Barracks						
REPORT REFERENCE			11/02/2025 - 18/02/2025						
Start	12/2/25	7:05	Leq12h	60.7			Weighting		A
End	12/2/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m		Date	Time	Leq5m
12/2/25	7:05	61.0	12/2/25	11:05	60.1		12/2/25	15:05	59.5
12/2/25	7:10	58.5	12/2/25	11:10	58.9		12/2/25	15:10	59.3
12/2/25	7:15	59.2	12/2/25	11:15	60.0		12/2/25	15:15	66.7
12/2/25	7:20	61.7	12/2/25	11:20	59.2		12/2/25	15:20	60.8
12/2/25	7:25	59.4	12/2/25	11:25	59.5		12/2/25	15:25	57.6
12/2/25	7:30	59.7	12/2/25	11:30	64.0		12/2/25	15:30	59.6
12/2/25	7:35	61.3	12/2/25	11:35	64.7		12/2/25	15:35	62.1
12/2/25	7:40	59.7	12/2/25	11:40	62.4		12/2/25	15:40	59.6
12/2/25	7:45	59.9	12/2/25	11:45	60.8		12/2/25	15:45	60.0
12/2/25	7:50	58.7	12/2/25	11:50	61.6		12/2/25	15:50	59.2
12/2/25	7:55	59.7	12/2/25	11:55	63.7		12/2/25	15:55	60.6
12/2/25	8:00	58.7	12/2/25	12:00	59.7		12/2/25	16:00	62.4
12/2/25	8:05	59.9	12/2/25	12:05	58.1		12/2/25	16:05	61.8
12/2/25	8:10	61.4	12/2/25	12:10	58.1		12/2/25	16:10	59.9
12/2/25	8:15	58.7	12/2/25	12:15	59.1		12/2/25	16:15	59.5
12/2/25	8:20	59.3	12/2/25	12:20	58.9		12/2/25	16:20	60.4
12/2/25	8:25	60.0	12/2/25	12:25	60.0		12/2/25	16:25	61.2
12/2/25	8:30	59.6	12/2/25	12:30	59.6		12/2/25	16:30	62.9
12/2/25	8:35	59.6	12/2/25	12:35	58.7		12/2/25	16:35	59.5
12/2/25	8:40	59.5	12/2/25	12:40	59.7		12/2/25	16:40	63.0
12/2/25	8:45	59.6	12/2/25	12:45	60.7		12/2/25	16:45	60.6
12/2/25	8:50	60.4	12/2/25	12:50	59.2		12/2/25	16:50	58.9
12/2/25	8:55	59.1	12/2/25	12:55	60.1		12/2/25	16:55	60.2
12/2/25	9:00	60.4	12/2/25	13:00	59.9		12/2/25	17:00	57.4
12/2/25	9:05	59.5	12/2/25	13:05	60.8		12/2/25	17:05	60.5
12/2/25	9:10	59.5	12/2/25	13:10	59.5		12/2/25	17:10	59.1
12/2/25	9:15	60.7	12/2/25	13:15	63.8		12/2/25	17:15	60.1
12/2/25	9:20	60.6	12/2/25	13:20	59.6		12/2/25	17:20	60.0
12/2/25	9:25	59.9	12/2/25	13:25	59.4		12/2/25	17:25	61.1
12/2/25	9:30	60.5	12/2/25	13:30	58.8		12/2/25	17:30	61.6
12/2/25	9:35	60.4	12/2/25	13:35	59.5		12/2/25	17:35	58.9
12/2/25	9:40	60.3	12/2/25	13:40	60.1		12/2/25	17:40	61.7
12/2/25	9:45	62.2	12/2/25	13:45	60.4		12/2/25	17:45	66.5
12/2/25	9:50	62.0	12/2/25	13:50	60.9		12/2/25	17:50	60.4
12/2/25	9:55	67.1	12/2/25	13:55	61.1		12/2/25	17:55	62.1
12/2/25	10:00	59.3	12/2/25	14:00	59.0		12/2/25	18:00	63.4
12/2/25	10:05	59.9	12/2/25	14:05	60.3		12/2/25	18:05	60.3
12/2/25	10:10	61.4	12/2/25	14:10	62.5		12/2/25	18:10	60.5
12/2/25	10:15	59.7	12/2/25	14:15	58.7		12/2/25	18:15	60.6
12/2/25	10:20	58.9	12/2/25	14:20	58.4		12/2/25	18:20	58.8
12/2/25	10:25	60.0	12/2/25	14:25	58.6		12/2/25	18:25	57.7
12/2/25	10:30	58.8	12/2/25	14:30	58.9		12/2/25	18:30	59.8
12/2/25	10:35	60.8	12/2/25	14:35	59.8		12/2/25	18:35	59.5
12/2/25	10:40	61.6	12/2/25	14:40	59.9		12/2/25	18:40	61.6
12/2/25	10:45	60.5	12/2/25	14:45	58.2		12/2/25	18:45	61.1
12/2/25	10:50	59.9	12/2/25	14:50	59.8		12/2/25	18:50	60.0
12/2/25	10:55	63.3	12/2/25	14:55	59.5		12/2/25	18:55	60.6
12/2/25	11:00	60.4	12/2/25	15:00	60.8		12/2/25	19:00	59.6

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM1 EIA Gillman Barracks							
REPORT REFERENCE				11/02/2025 - 18/02/2025							
Start	12/2/25	19:05		Leq12h	56.7			Weighting	A		
End	13/2/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
12/2/25	19:05	59.4	59.0	12/2/25	23:05	58.9	55.0	13/2/25	3:05	48.8	48.6
12/2/25	19:10	60.0		12/2/25	23:10	54.8		13/2/25	3:10	50.7	
12/2/25	19:15	58.7		12/2/25	23:15	54.5		13/2/25	3:15	48.8	
12/2/25	19:20	60.0		12/2/25	23:20	54.5		13/2/25	3:20	48.7	
12/2/25	19:25	58.2		12/2/25	23:25	52.9		13/2/25	3:25	48.6	
12/2/25	19:30	58.9		12/2/25	23:30	56.1		13/2/25	3:30	48.9	
12/2/25	19:35	60.8		12/2/25	23:35	55.4		13/2/25	3:35	47.4	
12/2/25	19:40	59.0		12/2/25	23:40	51.6		13/2/25	3:40	47.0	
12/2/25	19:45	58.2		12/2/25	23:45	54.4		13/2/25	3:45	49.7	
12/2/25	19:50	57.4		12/2/25	23:50	55.7		13/2/25	3:50	45.4	
12/2/25	19:55	58.5	63.3	12/2/25	23:55	54.1	53.2	13/2/25	3:55	48.4	51.0
12/2/25	20:00	57.8		12/2/25	0:00	51.6		13/2/25	4:00	48.6	
12/2/25	20:05	58.2		13/2/25	0:05	54.5		13/2/25	4:05	48.1	
12/2/25	20:10	58.4		13/2/25	0:10	52.6		13/2/25	4:10	44.2	
12/2/25	20:15	56.6		13/2/25	0:15	55.5		13/2/25	4:15	50.3	
12/2/25	20:20	58.2		13/2/25	0:20	55.5		13/2/25	4:20	48.9	
12/2/25	20:25	56.1		13/2/25	0:25	56.4		13/2/25	4:25	49.2	
12/2/25	20:30	56.5		13/2/25	0:30	51.9		13/2/25	4:30	51.0	
12/2/25	20:35	57.0		13/2/25	0:35	51.0		13/2/25	4:35	48.5	
12/2/25	20:40	69.1		13/2/25	0:40	51.0		13/2/25	4:40	54.6	
12/2/25	20:45	70.8	56.8	13/2/25	0:45	51.9	49.8	13/2/25	4:45	48.4	55.7
12/2/25	20:50	56.0		13/2/25	0:50	49.9		13/2/25	4:50	53.9	
12/2/25	20:55	56.3		13/2/25	0:55	51.8		13/2/25	4:55	49.4	
12/2/25	21:00	58.7		13/2/25	1:00	49.9		13/2/25	5:00	54.3	
12/2/25	21:05	55.7		13/2/25	1:05	51.0		13/2/25	5:05	47.6	
12/2/25	21:10	56.3		13/2/25	1:10	53.2		13/2/25	5:10	48.7	
12/2/25	21:15	58.1		13/2/25	1:15	46.4		13/2/25	5:15	55.9	
12/2/25	21:20	57.1		13/2/25	1:20	48.4		13/2/25	5:20	57.1	
12/2/25	21:25	56.1		13/2/25	1:25	47.7		13/2/25	5:25	56.4	
12/2/25	21:30	57.8		13/2/25	1:30	49.8		13/2/25	5:30	57.5	
12/2/25	21:35	57.6	56.1	13/2/25	1:35	49.5	49.3	13/2/25	5:35	50.8	57.5
12/2/25	21:40	58.1		13/2/25	1:40	50.0		13/2/25	5:40	54.2	
12/2/25	21:45	54.2		13/2/25	1:45	51.5		13/2/25	5:45	53.8	
12/2/25	21:50	55.8		13/2/25	1:50	49.4		13/2/25	5:50	56.0	
12/2/25	21:55	56.8		13/2/25	1:55	46.5		13/2/25	5:55	53.9	
12/2/25	22:00	56.8		13/2/25	2:00	48.7		13/2/25	6:00	60.6	
12/2/25	22:05	55.1		13/2/25	2:05	47.5		13/2/25	6:05	55.1	
12/2/25	22:10	56.8		13/2/25	2:10	47.0		13/2/25	6:10	54.4	
12/2/25	22:15	57.0		13/2/25	2:15	49.0		13/2/25	6:15	56.0	
12/2/25	22:20	59.0		13/2/25	2:20	46.9		13/2/25	6:20	59.3	
12/2/25	22:25	56.2	56.1	13/2/25	2:25	50.1		13/2/25	6:25	55.2	
12/2/25	22:30	53.0		13/2/25	2:30	48.8		13/2/25	6:30	57.5	
12/2/25	22:35	56.8		13/2/25	2:35	54.0		13/2/25	6:35	56.2	
12/2/25	22:40	56.8		13/2/25	2:40	48.2		13/2/25	6:40	57.7	
12/2/25	22:45	53.7		13/2/25	2:45	49.0		13/2/25	6:45	59.9	
12/2/25	22:50	54.6		13/2/25	2:50	50.4		13/2/25	6:50	58.1	
12/2/25	22:55	55.6		13/2/25	2:55	46.4		13/2/25	6:55	58.8	
12/2/25	23:00	54.9		13/2/25	3:00	48.3		13/2/25	7:00	58.4	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM1 EIA Gillman Barracks						
REPORT REFERENCE			11/02/2025 - 18/02/2025						
Start	13/2/25	7:05	Leq12h		60.8	Weighting			A
End	13/2/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m	
13/2/25	7:05	60.5	13/2/25	11:05	59.3	13/2/25	15:05	60.2	
13/2/25	7:10	59.4	13/2/25	11:10	59.2	13/2/25	15:10	61.1	
13/2/25	7:15	59.4	13/2/25	11:15	58.7	13/2/25	15:15	60.8	
13/2/25	7:20	61.8	13/2/25	11:20	59.9	13/2/25	15:20	60.8	
13/2/25	7:25	60.5	13/2/25	11:25	59.3	13/2/25	15:25	61.7	
13/2/25	7:30	59.9	13/2/25	11:30	60.0	13/2/25	15:30	61.9	
13/2/25	7:35	57.5	13/2/25	11:35	59.1	13/2/25	15:35	60.4	
13/2/25	7:40	60.1	13/2/25	11:40	58.4	13/2/25	15:40	60.1	
13/2/25	7:45	59.7	13/2/25	11:45	60.4	13/2/25	15:45	60.8	
13/2/25	7:50	60.1	13/2/25	11:50	58.7	13/2/25	15:50	61.0	
13/2/25	7:55	62.3	13/2/25	11:55	58.7	13/2/25	15:55	62.3	
13/2/25	8:00	63.7	13/2/25	12:00	60.9	13/2/25	16:00	61.8	
13/2/25	8:05	60.6	13/2/25	12:05	63.6	13/2/25	16:05	60.0	
13/2/25	8:10	59.7	13/2/25	12:10	59.3	13/2/25	16:10	60.7	
13/2/25	8:15	59.5	13/2/25	12:15	60.9	13/2/25	16:15	59.1	
13/2/25	8:20	61.4	13/2/25	12:20	60.3	13/2/25	16:20	62.0	
13/2/25	8:25	60.1	13/2/25	12:25	57.6	13/2/25	16:25	60.2	
13/2/25	8:30	59.6	13/2/25	12:30	60.7	13/2/25	16:30	61.7	
13/2/25	8:35	58.4	13/2/25	12:35	61.1	13/2/25	16:35	60.8	
13/2/25	8:40	60.2	13/2/25	12:40	60.4	13/2/25	16:40	60.6	
13/2/25	8:45	60.9	13/2/25	12:45	64.0	13/2/25	16:45	61.6	
13/2/25	8:50	59.7	13/2/25	12:50	59.1	13/2/25	16:50	63.0	
13/2/25	8:55	59.1	13/2/25	12:55	57.7	13/2/25	16:55	61.1	
13/2/25	9:00	61.0	13/2/25	13:00	58.4	13/2/25	17:00	60.3	
13/2/25	9:05	59.3	13/2/25	13:05	60.9	13/2/25	17:05	60.3	
13/2/25	9:10	62.8	13/2/25	13:10	57.1	13/2/25	17:10	59.1	
13/2/25	9:15	62.7	13/2/25	13:15	58.3	13/2/25	17:15	61.0	
13/2/25	9:20	61.3	13/2/25	13:20	59.2	13/2/25	17:20	67.8	
13/2/25	9:25	60.4	13/2/25	13:25	59.3	13/2/25	17:25	61.6	
13/2/25	9:30	60.6	13/2/25	13:30	58.0	13/2/25	17:30	61.3	
13/2/25	9:35	61.3	13/2/25	13:35	59.7	13/2/25	17:35	60.1	
13/2/25	9:40	60.0	13/2/25	13:40	57.5	13/2/25	17:40	61.7	
13/2/25	9:45	61.0	13/2/25	13:45	58.4	13/2/25	17:45	60.6	
13/2/25	9:50	64.8	13/2/25	13:50	58.9	13/2/25	17:50	60.1	
13/2/25	9:55	65.7	13/2/25	13:55	59.3	13/2/25	17:55	61.2	
13/2/25	10:00	64.6	13/2/25	14:00	58.3	13/2/25	18:00	61.4	
13/2/25	10:05	65.3	13/2/25	14:05	58.6	13/2/25	18:05	61.2	
13/2/25	10:10	62.2	13/2/25	14:10	60.6	13/2/25	18:10	62.8	
13/2/25	10:15	61.5	13/2/25	14:15	58.9	13/2/25	18:15	59.3	
13/2/25	10:20	58.6	13/2/25	14:20	58.7	13/2/25	18:20	59.6	
13/2/25	10:25	66.8	13/2/25	14:25	59.2	13/2/25	18:25	58.3	
13/2/25	10:30	61.5	13/2/25	14:30	58.8	13/2/25	18:30	60.1	
13/2/25	10:35	60.3	13/2/25	14:35	58.9	13/2/25	18:35	58.7	
13/2/25	10:40	58.4	13/2/25	14:40	59.8	13/2/25	18:40	59.1	
13/2/25	10:45	58.2	13/2/25	14:45	58.6	13/2/25	18:45	60.2	
13/2/25	10:50	59.9	13/2/25	14:50	61.2	13/2/25	18:50	58.2	
13/2/25	10:55	59.9	13/2/25	14:55	59.0	13/2/25	18:55	60.8	
13/2/25	11:00	58.6	13/2/25	15:00	61.0	13/2/25	19:00	61.0	

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM1 EIA Gillman Barracks							
REPORT REFERENCE				11/02/2025 - 18/02/2025							
Start	13/2/25	19:05		Leq12h	55.7			Weighting	A		
End	14/2/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
13/2/25	19:05	61.0	59.2	13/2/25	23:05	54.7	56.7	14/2/25	3:05	47.8	49.6
13/2/25	19:10	59.6		13/2/25	23:10	64.6		14/2/25	3:10	47.0	
13/2/25	19:15	59.5		13/2/25	23:15	53.5		14/2/25	3:15	47.7	
13/2/25	19:20	55.9		13/2/25	23:20	53.9		14/2/25	3:20	49.0	
13/2/25	19:25	58.2		13/2/25	23:25	54.1		14/2/25	3:25	49.8	
13/2/25	19:30	58.3		13/2/25	23:30	52.9		14/2/25	3:30	47.6	
13/2/25	19:35	61.7		13/2/25	23:35	55.5		14/2/25	3:35	46.7	
13/2/25	19:40	58.2		13/2/25	23:40	52.0		14/2/25	3:40	56.8	
13/2/25	19:45	59.4		13/2/25	23:45	54.4		14/2/25	3:45	45.9	
13/2/25	19:50	59.9		13/2/25	23:50	52.4		14/2/25	3:50	47.3	
13/2/25	19:55	57.5	57.2	13/2/25	23:55	56.4	54.2	14/2/25	3:55	43.8	49.2
13/2/25	20:00	58.0		13/2/25	0:00	52.4		14/2/25	4:00	45.9	
13/2/25	20:05	58.2		14/2/25	0:05	52.1		14/2/25	4:05	49.2	
13/2/25	20:10	58.9		14/2/25	0:10	54.1		14/2/25	4:10	48.7	
13/2/25	20:15	58.1		14/2/25	0:15	52.7		14/2/25	4:15	45.0	
13/2/25	20:20	57.4		14/2/25	0:20	53.1		14/2/25	4:20	45.2	
13/2/25	20:25	56.6		14/2/25	0:25	54.5		14/2/25	4:25	50.6	
13/2/25	20:30	56.7		14/2/25	0:30	54.3		14/2/25	4:30	47.5	
13/2/25	20:35	55.8		14/2/25	0:35	48.6		14/2/25	4:35	48.9	
13/2/25	20:40	57.3		14/2/25	0:40	51.4		14/2/25	4:40	52.4	
13/2/25	20:45	56.4	57.6	14/2/25	0:45	51.2	52.6	14/2/25	4:45	52.1	55.0
13/2/25	20:50	55.3		14/2/25	0:50	51.7		14/2/25	4:50	47.7	
13/2/25	20:55	57.2		14/2/25	0:55	51.0		14/2/25	4:55	47.8	
13/2/25	21:00	56.9		14/2/25	1:00	60.7		14/2/25	5:00	48.2	
13/2/25	21:05	58.5		14/2/25	1:05	51.0		14/2/25	5:05	54.0	
13/2/25	21:10	58.9		14/2/25	1:10	50.5		14/2/25	5:10	48.7	
13/2/25	21:15	57.4		14/2/25	1:15	47.7		14/2/25	5:15	51.5	
13/2/25	21:20	59.2		14/2/25	1:20	47.1		14/2/25	5:20	57.2	
13/2/25	21:25	54.6		14/2/25	1:25	50.8		14/2/25	5:25	57.3	
13/2/25	21:30	56.6		14/2/25	1:30	48.5		14/2/25	5:30	57.4	
13/2/25	21:35	57.6	56.5	14/2/25	1:35	49.3	48.0	14/2/25	5:35	54.3	57.7
13/2/25	21:40	58.7		14/2/25	1:40	51.8		14/2/25	5:40	51.3	
13/2/25	21:45	56.1		14/2/25	1:45	47.4		14/2/25	5:45	52.9	
13/2/25	21:50	55.4		14/2/25	1:50	60.5		14/2/25	5:50	53.5	
13/2/25	21:55	57.6		14/2/25	1:55	53.0		14/2/25	5:55	57.3	
13/2/25	22:00	57.8		14/2/25	2:00	47.5		14/2/25	6:00	55.0	
13/2/25	22:05	57.3		14/2/25	2:05	48.0		14/2/25	6:05	54.8	
13/2/25	22:10	56.7		14/2/25	2:10	46.8		14/2/25	6:10	54.2	
13/2/25	22:15	57.5		14/2/25	2:15	48.5		14/2/25	6:15	55.3	
13/2/25	22:20	55.2		14/2/25	2:20	48.1		14/2/25	6:20	57.6	
13/2/25	22:25	57.9	56.5	14/2/25	2:25	45.6	48.0	14/2/25	6:25	56.6	
13/2/25	22:30	56.5		14/2/25	2:30	46.9		14/2/25	6:30	58.2	
13/2/25	22:35	53.3		14/2/25	2:35	50.5		14/2/25	6:35	55.4	
13/2/25	22:40	56.7		14/2/25	2:40	47.3		14/2/25	6:40	58.5	
13/2/25	22:45	54.1		14/2/25	2:45	48.9		14/2/25	6:45	60.8	
13/2/25	22:50	57.9		14/2/25	2:50	48.9		14/2/25	6:50	58.7	
13/2/25	22:55	55.7		14/2/25	2:55	48.2		14/2/25	6:55	58.8	
13/2/25	23:00	56.4		14/2/25	3:00	44.8		14/2/25	7:00	58.7	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd							
SITE LOCATION			NM1 EIA Gillman Barracks							
REPORT REFERENCE			11/02/2025 - 18/02/2025							
Start	14/2/25	7:05	Leq12h	62.2				Weighting		A
End	14/2/25	19:00								
Date	Time	Leq5m	Date	Time	Leq5m		Date	Time	Leq5m	
14/2/25	7:05	64.2	14/2/25	11:05	60.8		14/2/25	15:05	59.3	
14/2/25	7:10	60.1	14/2/25	11:10	61.1		14/2/25	15:10	59.0	
14/2/25	7:15	62.7	14/2/25	11:15	61.6		14/2/25	15:15	60.3	
14/2/25	7:20	61.5	14/2/25	11:20	62.0		14/2/25	15:20	59.5	
14/2/25	7:25	59.3	14/2/25	11:25	62.5		14/2/25	15:25	60.1	
14/2/25	7:30	58.4	14/2/25	11:30	62.5		14/2/25	15:30	62.0	
14/2/25	7:35	60.4	14/2/25	11:35	62.3		14/2/25	15:35	57.7	
14/2/25	7:40	60.7	14/2/25	11:40	60.8		14/2/25	15:40	58.8	
14/2/25	7:45	61.7	14/2/25	11:45	59.8		14/2/25	15:45	61.1	
14/2/25	7:50	59.0	14/2/25	11:50	60.0		14/2/25	15:50	60.8	
14/2/25	7:55	59.3	14/2/25	11:55	59.5		14/2/25	15:55	59.4	
14/2/25	8:00	64.0	14/2/25	12:00	60.5		14/2/25	16:00	61.6	
14/2/25	8:05	60.1	14/2/25	12:05	60.9		14/2/25	16:05	59.5	
14/2/25	8:10	60.5	14/2/25	12:10	60.2		14/2/25	16:10	59.8	
14/2/25	8:15	62.0	14/2/25	12:15	57.9		14/2/25	16:15	69.4	
14/2/25	8:20	61.0	14/2/25	12:20	58.1		14/2/25	16:20	62.6	
14/2/25	8:25	60.5	14/2/25	12:25	59.9		14/2/25	16:25	60.0	
14/2/25	8:30	60.3	14/2/25	12:30	58.5		14/2/25	16:30	62.3	
14/2/25	8:35	58.4	14/2/25	12:35	60.0		14/2/25	16:35	60.2	
14/2/25	8:40	60.0	14/2/25	12:40	59.7		14/2/25	16:40	60.6	
14/2/25	8:45	60.3	14/2/25	12:45	59.8		14/2/25	16:45	61.3	
14/2/25	8:50	60.0	14/2/25	12:50	59.8		14/2/25	16:50	60.7	
14/2/25	8:55	58.7	14/2/25	12:55	60.1		14/2/25	16:55	61.7	
14/2/25	9:00	63.0	14/2/25	13:00	61.2		14/2/25	17:00	60.1	
14/2/25	9:05	61.1	14/2/25	13:05	59.7		14/2/25	17:05	59.9	
14/2/25	9:10	62.8	14/2/25	13:10	58.5		14/2/25	17:10	61.3	
14/2/25	9:15	61.2	14/2/25	13:15	59.6		14/2/25	17:15	60.8	
14/2/25	9:20	66.7	14/2/25	13:20	61.1		14/2/25	17:20	59.2	
14/2/25	9:25	61.0	14/2/25	13:25	59.5		14/2/25	17:25	62.8	
14/2/25	9:30	72.8	14/2/25	13:30	58.9		14/2/25	17:30	58.8	
14/2/25	9:35	75.8	14/2/25	13:35	59.2		14/2/25	17:35	60.4	
14/2/25	9:40	61.5	14/2/25	13:40	60.1		14/2/25	17:40	60.7	
14/2/25	9:45	62.0	14/2/25	13:45	59.8		14/2/25	17:45	60.5	
14/2/25	9:50	60.9	14/2/25	13:50	58.9		14/2/25	17:50	58.3	
14/2/25	9:55	61.4	14/2/25	13:55	60.5		14/2/25	17:55	58.9	
14/2/25	10:00	61.5	14/2/25	14:00	59.9		14/2/25	18:00	61.4	
14/2/25	10:05	61.5	14/2/25	14:05	60.1		14/2/25	18:05	60.9	
14/2/25	10:10	63.1	14/2/25	14:10	59.1		14/2/25	18:10	59.7	
14/2/25	10:15	61.5	14/2/25	14:15	60.8		14/2/25	18:15	59.5	
14/2/25	10:20	68.3	14/2/25	14:20	59.0		14/2/25	18:20	59.3	
14/2/25	10:25	61.2	14/2/25	14:25	59.5		14/2/25	18:25	59.1	
14/2/25	10:30	62.6	14/2/25	14:30	59.8		14/2/25	18:30	60.1	
14/2/25	10:35	62.0	14/2/25	14:35	61.9		14/2/25	18:35	60.1	
14/2/25	10:40	58.9	14/2/25	14:40	60.4		14/2/25	18:40	61.8	
14/2/25	10:45	58.3	14/2/25	14:45	61.8		14/2/25	18:45	58.7	
14/2/25	10:50	60.3	14/2/25	14:50	59.5		14/2/25	18:50	60.2	
14/2/25	10:55	60.0	14/2/25	14:55	60.1		14/2/25	18:55	58.9	
14/2/25	11:00	61.4	14/2/25	15:00	60.4		14/2/25	19:00	59.8	

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM1 EIA Gillman Barracks							
REPORT REFERENCE				11/02/2025 - 18/02/2025							
Start	14/2/25	19:05		Leq12h	55.4			Weighting	A		
End	15/2/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
14/2/25	19:05	59.5	58.5	14/2/25	23:05	59.3	56.1	15/2/25	3:05	49.8	48.7
14/2/25	19:10	58.8		14/2/25	23:10	55.1		15/2/25	3:10	48.3	
14/2/25	19:15	57.5		14/2/25	23:15	57.1		15/2/25	3:15	48.3	
14/2/25	19:20	59.2		14/2/25	23:20	55.5		15/2/25	3:20	49.8	
14/2/25	19:25	58.6		14/2/25	23:25	54.7		15/2/25	3:25	46.0	
14/2/25	19:30	58.2		14/2/25	23:30	53.6		15/2/25	3:30	49.9	
14/2/25	19:35	59.5		14/2/25	23:35	59.2		15/2/25	3:35	47.2	
14/2/25	19:40	58.5		14/2/25	23:40	53.4		15/2/25	3:40	50.8	
14/2/25	19:45	58.1		14/2/25	23:45	54.2		15/2/25	3:45	49.2	
14/2/25	19:50	57.3		14/2/25	23:50	54.7		15/2/25	3:50	46.5	
14/2/25	19:55	58.7	58.2	14/2/25	23:55	55.7	55.4	15/2/25	3:55	47.7	49.7
14/2/25	20:00	57.7		14/2/25	0:00	54.7		15/2/25	4:00	48.3	
14/2/25	20:05	58.5		15/2/25	0:05	56.3		15/2/25	4:05	47.8	
14/2/25	20:10	57.6		15/2/25	0:10	55.3		15/2/25	4:10	47.5	
14/2/25	20:15	57.9		15/2/25	0:15	55.0		15/2/25	4:15	46.5	
14/2/25	20:20	59.2		15/2/25	0:20	53.1		15/2/25	4:20	45.4	
14/2/25	20:25	59.6		15/2/25	0:25	54.2		15/2/25	4:25	50.9	
14/2/25	20:30	56.3		15/2/25	0:30	55.7		15/2/25	4:30	50.4	
14/2/25	20:35	57.0		15/2/25	0:35	58.9		15/2/25	4:35	48.4	
14/2/25	20:40	57.2		15/2/25	0:40	59.7		15/2/25	4:40	50.5	
14/2/25	20:45	57.4	57.2	15/2/25	0:45	50.8	53.9	15/2/25	4:45	52.6	52.6
14/2/25	20:50	55.2		15/2/25	0:50	51.9		15/2/25	4:50	51.1	
14/2/25	20:55	56.7		15/2/25	0:55	49.5		15/2/25	4:55	50.7	
14/2/25	21:00	61.6		15/2/25	1:00	51.5		15/2/25	5:00	48.9	
14/2/25	21:05	55.4		15/2/25	1:05	51.0		15/2/25	5:05	46.6	
14/2/25	21:10	59.3		15/2/25	1:10	50.0		15/2/25	5:10	53.9	
14/2/25	21:15	56.3		15/2/25	1:15	49.1		15/2/25	5:15	49.1	
14/2/25	21:20	58.8		15/2/25	1:20	55.8		15/2/25	5:20	53.0	
14/2/25	21:25	56.1		15/2/25	1:25	50.4		15/2/25	5:25	57.2	
14/2/25	21:30	56.9		15/2/25	1:30	50.1		15/2/25	5:30	48.4	
14/2/25	21:35	55.1	55.9	15/2/25	1:35	48.7	50.7	15/2/25	5:35	50.7	56.0
14/2/25	21:40	60.2		15/2/25	1:40	50.0		15/2/25	5:40	48.3	
14/2/25	21:45	56.2		15/2/25	1:45	50.7		15/2/25	5:45	48.5	
14/2/25	21:50	56.3		15/2/25	1:50	60.4		15/2/25	5:50	52.3	
14/2/25	21:55	56.9		15/2/25	1:55	57.9		15/2/25	5:55	54.8	
14/2/25	22:00	55.0		15/2/25	2:00	48.1		15/2/25	6:00	54.7	
14/2/25	22:05	57.6		15/2/25	2:05	55.6		15/2/25	6:05	54.6	
14/2/25	22:10	55.5		15/2/25	2:10	48.0		15/2/25	6:10	55.0	
14/2/25	22:15	57.1		15/2/25	2:15	49.6		15/2/25	6:15	54.3	
14/2/25	22:20	53.4		15/2/25	2:20	47.6		15/2/25	6:20	53.4	
14/2/25	22:25	58.5	55.9	15/2/25	2:25	48.4	50.7	15/2/25	6:25	55.1	
14/2/25	22:30	55.0		15/2/25	2:30	47.0		15/2/25	6:30	55.6	
14/2/25	22:35	54.5		15/2/25	2:35	53.1		15/2/25	6:35	54.3	
14/2/25	22:40	55.8		15/2/25	2:40	50.5		15/2/25	6:40	59.2	
14/2/25	22:45	56.8		15/2/25	2:45	49.9		15/2/25	6:45	56.3	
14/2/25	22:50	53.5		15/2/25	2:50	49.7		15/2/25	6:50	57.9	
14/2/25	22:55	54.4		15/2/25	2:55	50.5		15/2/25	6:55	57.8	
14/2/25	23:00	55.7		15/2/25	3:00	49.2		15/2/25	7:00	54.1	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd									
SITE LOCATION			NM1 EIA Gillman Barracks									
REPORT REFERENCE			11/02/2025 - 18/02/2025									
Start	15/2/25		7:05	Leq12h			60.8		Weighting		A	
End	15/2/25		19:00									
Date	Time	Leq5m		Date	Time	Leq5m		Date	Time	Leq5m		
15/2/25	7:05	56.5		15/2/25	11:05	58.4		15/2/25	15:05	58.0		
15/2/25	7:10	57.1		15/2/25	11:10	57.7		15/2/25	15:10	66.4		
15/2/25	7:15	55.9		15/2/25	11:15	59.0		15/2/25	15:15	66.6		
15/2/25	7:20	56.1		15/2/25	11:20	59.9		15/2/25	15:20	65.0		
15/2/25	7:25	57.7		15/2/25	11:25	58.7		15/2/25	15:25	62.8		
15/2/25	7:30	56.3		15/2/25	11:30	58.5		15/2/25	15:30	62.6		
15/2/25	7:35	56.8		15/2/25	11:35	57.4		15/2/25	15:35	60.8		
15/2/25	7:40	58.3		15/2/25	11:40	58.3		15/2/25	15:40	60.5		
15/2/25	7:45	56.6		15/2/25	11:45	56.7		15/2/25	15:45	60.7		
15/2/25	7:50	59.3		15/2/25	11:50	57.7		15/2/25	15:50	61.2		
15/2/25	7:55	57.3		15/2/25	11:55	60.3		15/2/25	15:55	62.0		
15/2/25	8:00	60.1		15/2/25	12:00	59.7		15/2/25	16:00	59.7		
15/2/25	8:05	59.1		15/2/25	12:05	58.5		15/2/25	16:05	63.3		
15/2/25	8:10	57.2		15/2/25	12:10	58.8		15/2/25	16:10	63.6		
15/2/25	8:15	59.4		15/2/25	12:15	59.4		15/2/25	16:15	68.1		
15/2/25	8:20	59.4		15/2/25	12:20	58.9		15/2/25	16:20	69.7		
15/2/25	8:25	59.5		15/2/25	12:25	57.0		15/2/25	16:25	68.7		
15/2/25	8:30	58.2		15/2/25	12:30	58.2		15/2/25	16:30	69.3		
15/2/25	8:35	59.0		15/2/25	12:35	58.9		15/2/25	16:35	67.0		
15/2/25	8:40	59.8		15/2/25	12:40	58.2		15/2/25	16:40	66.3		
15/2/25	8:45	57.9		15/2/25	12:45	57.9		15/2/25	16:45	62.7		
15/2/25	8:50	58.3		15/2/25	12:50	59.0		15/2/25	16:50	60.4		
15/2/25	8:55	58.2		15/2/25	12:55	58.3		15/2/25	16:55	60.2		
15/2/25	9:00	60.1		15/2/25	13:00	58.9		15/2/25	17:00	63.5		
15/2/25	9:05	58.3		15/2/25	13:05	58.1		15/2/25	17:05	62.2		
15/2/25	9:10	59.2		15/2/25	13:10	59.5		15/2/25	17:10	60.9		
15/2/25	9:15	59.8		15/2/25	13:15	58.0		15/2/25	17:15	60.2		
15/2/25	9:20	59.8		15/2/25	13:20	57.1		15/2/25	17:20	60.8		
15/2/25	9:25	57.2		15/2/25	13:25	57.5		15/2/25	17:25	60.8		
15/2/25	9:30	58.3	15/2/25	13:30	59.0	15/2/25	17:30	60.4				
15/2/25	9:35	60.0	15/2/25	13:35	56.8	15/2/25	17:35	58.9				
15/2/25	9:40	60.2	15/2/25	13:40	59.7	15/2/25	17:40	59.7				
15/2/25	9:45	59.1	15/2/25	13:45	58.8	15/2/25	17:45	58.4				
15/2/25	9:50	59.0	15/2/25	13:50	57.5	15/2/25	17:50	57.8				
15/2/25	9:55	59.5	15/2/25	13:55	57.5	15/2/25	17:55	61.4				
15/2/25	10:00	58.1	15/2/25	14:00	57.5	15/2/25	18:00	59.1				
15/2/25	10:05	60.6	15/2/25	14:05	59.2	15/2/25	18:05	58.3				
15/2/25	10:10	57.7	15/2/25	14:10	58.5	15/2/25	18:10	58.3				
15/2/25	10:15	57.7	15/2/25	14:15	59.5	15/2/25	18:15	60.5				
15/2/25	10:20	59.4	15/2/25	14:20	58.2	15/2/25	18:20	58.4				
15/2/25	10:25	58.9	15/2/25	14:25	57.4	15/2/25	18:25	60.1				
15/2/25	10:30	59.2	15/2/25	14:30	57.9	15/2/25	18:30	59.3				
15/2/25	10:35	58.5	15/2/25	14:35	63.1	15/2/25	18:35	60.5				
15/2/25	10:40	60.9	15/2/25	14:40	61.0	15/2/25	18:40	59.3				
15/2/25	10:45	59.0	15/2/25	14:45	57.8	15/2/25	18:45	56.7				
15/2/25	10:50	57.5	15/2/25	14:50	60.8	15/2/25	18:50	58.2				
15/2/25	10:55	63.0	15/2/25	14:55	58.1	15/2/25	18:55	58.2				
15/2/25	11:00	67.2	15/2/25	15:00	57.6	15/2/25	19:00	57.2				

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd									
SITE LOCATION			NM1 EIA Gillman Barracks									
REPORT REFERENCE			11/02/2025 - 18/02/2025									
Start	15/2/25		19:05	Leq12h		58.1		Weighting		A		
End	16/2/25		7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	
15/2/25	19:05	58.1	59.1	15/2/25	23:05	60.2	60.5	16/2/25	3:05	51.5	50.9	
15/2/25	19:10	61.2		15/2/25	23:10	60.0		16/2/25	3:10	49.5		
15/2/25	19:15	58.3		15/2/25	23:15	60.5		16/2/25	3:15	51.2		
15/2/25	19:20	57.7		15/2/25	23:20	60.8		16/2/25	3:20	48.4		
15/2/25	19:25	60.2		15/2/25	23:25	62.6		16/2/25	3:25	49.0		
15/2/25	19:30	57.4		15/2/25	23:30	60.0		16/2/25	3:30	47.8		
15/2/25	19:35	59.3		15/2/25	23:35	60.4		16/2/25	3:35	53.2		
15/2/25	19:40	59.0		15/2/25	23:40	59.6		16/2/25	3:40	52.2		
15/2/25	19:45	58.9		15/2/25	23:45	60.2		16/2/25	3:45	51.2		
15/2/25	19:50	59.8		15/2/25	23:50	60.5		16/2/25	3:50	51.5		
15/2/25	19:55	57.2	60.5	15/2/25	23:55	60.5		16/2/25	3:55	50.7		
15/2/25	20:00	59.9		15/2/25	0:00	59.4		16/2/25	4:00	51.2		
15/2/25	20:05	57.4		16/2/25	0:05	60.7	16/2/25	4:05	49.8			
15/2/25	20:10	59.5		16/2/25	0:10	59.4	16/2/25	4:10	52.5			
15/2/25	20:15	59.6		16/2/25	0:15	58.9	16/2/25	4:15	53.1			
15/2/25	20:20	58.0		16/2/25	0:20	59.6	16/2/25	4:20	51.8			
15/2/25	20:25	57.7		16/2/25	0:25	59.0	16/2/25	4:25	49.2			
15/2/25	20:30	57.7		16/2/25	0:30	52.9	16/2/25	4:30	52.3			
15/2/25	20:35	63.5		16/2/25	0:35	55.5	16/2/25	4:35	48.2			
15/2/25	20:40	61.7		16/2/25	0:40	51.8	16/2/25	4:40	49.4			
15/2/25	20:45	60.8	16/2/25	0:45	53.4	16/2/25	4:45	50.3				
15/2/25	20:50	60.8	16/2/25	0:50	57.9	16/2/25	4:50	48.4				
15/2/25	20:55	60.6	60.5	16/2/25	0:55	56.2	16/2/25	4:55	49.1			
15/2/25	21:00	62.8		16/2/25	1:00	53.3	16/2/25	5:00	47.1			
15/2/25	21:05	67.8		16/2/25	1:05	52.5	16/2/25	5:05	46.4			
15/2/25	21:10	66.1		16/2/25	1:10	52.2	16/2/25	5:10	56.2			
15/2/25	21:15	57.6		16/2/25	1:15	51.9	16/2/25	5:15	49.8			
15/2/25	21:20	58.2		16/2/25	1:20	51.3	16/2/25	5:20	52.3			
15/2/25	21:25	60.4		16/2/25	1:25	53.2	16/2/25	5:25	49.3			
15/2/25	21:30	62.0		16/2/25	1:30	48.6	16/2/25	5:30	58.7			
15/2/25	21:35	61.0		16/2/25	1:35	52.7	16/2/25	5:35	54.5			
15/2/25	21:40	62.0		16/2/25	1:40	52.4	16/2/25	5:40	51.4			
15/2/25	21:45	61.5	16/2/25	1:45	51.9	16/2/25	5:45	51.9				
15/2/25	21:50	62.2	16/2/25	1:50	51.0	16/2/25	5:50	53.0				
15/2/25	21:55	62.5	62.8	16/2/25	1:55	50.1	16/2/25	5:55	53.2			
15/2/25	22:00	61.5		16/2/25	2:00	50.7	16/2/25	6:00	51.5			
15/2/25	22:05	61.2		16/2/25	2:05	52.2	16/2/25	6:05	49.5			
15/2/25	22:10	61.1		16/2/25	2:10	51.7	16/2/25	6:10	51.4			
15/2/25	22:15	61.6		16/2/25	2:15	60.1	16/2/25	6:15	52.6			
15/2/25	22:20	61.8		16/2/25	2:20	49.6	16/2/25	6:20	55.3			
15/2/25	22:25	65.6		16/2/25	2:25	50.3	16/2/25	6:25	54.8			
15/2/25	22:30	59.5		16/2/25	2:30	49.3	16/2/25	6:30	54.6			
15/2/25	22:35	59.1		16/2/25	2:35	50.3	16/2/25	6:35	54.8			
15/2/25	22:40	60.3		16/2/25	2:40	51.1	16/2/25	6:40	52.9			
15/2/25	22:45	57.6	16/2/25	2:45	48.6	16/2/25	6:45	52.8				
15/2/25	22:50	58.5	16/2/25	2:50	47.2	16/2/25	6:50	54.7				
15/2/25	22:55	56.7	60.7	16/2/25	2:55	49.8	16/2/25	6:55	55.6			
15/2/25	23:00	56.3		16/2/25	3:00	48.4	16/2/25	7:00	55.6			

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM1 EIA Gillman Barracks						
REPORT REFERENCE			11/02/2025 - 18/02/2025						
Start	16/2/25	7:05	Leq12h		58.4	Weighting		A	
End	16/2/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m	
16/2/25	7:05	56.8	16/2/25	11:05	58.2	16/2/25	15:05	57.1	
16/2/25	7:10	53.6	16/2/25	11:10	58.7	16/2/25	15:10	56.6	
16/2/25	7:15	55.7	16/2/25	11:15	68.7	16/2/25	15:15	56.4	
16/2/25	7:20	55.9	16/2/25	11:20	58.9	16/2/25	15:20	57.8	
16/2/25	7:25	55.6	16/2/25	11:25	58.5	16/2/25	15:25	58.2	
16/2/25	7:30	55.3	16/2/25	11:30	58.4	16/2/25	15:30	58.0	
16/2/25	7:35	54.8	16/2/25	11:35	58.8	16/2/25	15:35	61.0	
16/2/25	7:40	55.7	16/2/25	11:40	58.0	16/2/25	15:40	59.2	
16/2/25	7:45	60.1	16/2/25	11:45	56.1	16/2/25	15:45	55.7	
16/2/25	7:50	57.2	16/2/25	11:50	57.5	16/2/25	15:50	57.5	
16/2/25	7:55	55.0	16/2/25	11:55	59.1	16/2/25	15:55	57.2	
16/2/25	8:00	58.2	16/2/25	12:00	56.3	16/2/25	16:00	56.3	
16/2/25	8:05	55.8	16/2/25	12:05	58.9	16/2/25	16:05	57.4	
16/2/25	8:10	55.9	16/2/25	12:10	56.3	16/2/25	16:10	57.9	
16/2/25	8:15	57.4	16/2/25	12:15	58.8	16/2/25	16:15	58.4	
16/2/25	8:20	57.8	16/2/25	12:20	58.3	16/2/25	16:20	57.6	
16/2/25	8:25	59.4	16/2/25	12:25	56.2	16/2/25	16:25	59.5	
16/2/25	8:30	58.2	16/2/25	12:30	56.9	16/2/25	16:30	56.5	
16/2/25	8:35	57.5	16/2/25	12:35	57.2	16/2/25	16:35	57.2	
16/2/25	8:40	55.8	16/2/25	12:40	63.2	16/2/25	16:40	58.5	
16/2/25	8:45	58.1	16/2/25	12:45	60.1	16/2/25	16:45	57.5	
16/2/25	8:50	56.9	16/2/25	12:50	61.1	16/2/25	16:50	55.7	
16/2/25	8:55	55.7	16/2/25	12:55	58.6	16/2/25	16:55	57.7	
16/2/25	9:00	56.6	16/2/25	13:00	56.8	16/2/25	17:00	58.3	
16/2/25	9:05	56.9	16/2/25	13:05	55.7	16/2/25	17:05	57.9	
16/2/25	9:10	55.6	16/2/25	13:10	56.9	16/2/25	17:10	59.7	
16/2/25	9:15	57.4	16/2/25	13:15	57.5	16/2/25	17:15	56.7	
16/2/25	9:20	57.9	16/2/25	13:20	58.5	16/2/25	17:20	58.0	
16/2/25	9:25	57.1	16/2/25	13:25	57.1	16/2/25	17:25	58.2	
16/2/25	9:30	57.8	16/2/25	13:30	57.1	16/2/25	17:30	59.5	
16/2/25	9:35	58.2	16/2/25	13:35	58.6	16/2/25	17:35	58.0	
16/2/25	9:40	58.4	16/2/25	13:40	57.6	16/2/25	17:40	60.5	
16/2/25	9:45	57.9	16/2/25	13:45	57.7	16/2/25	17:45	59.2	
16/2/25	9:50	61.2	16/2/25	13:50	57.7	16/2/25	17:50	59.8	
16/2/25	9:55	57.9	16/2/25	13:55	56.6	16/2/25	17:55	63.1	
16/2/25	10:00	57.8	16/2/25	14:00	57.7	16/2/25	18:00	57.3	
16/2/25	10:05	57.6	16/2/25	14:05	59.2	16/2/25	18:05	57.0	
16/2/25	10:10	57.7	16/2/25	14:10	56.6	16/2/25	18:10	57.7	
16/2/25	10:15	58.7	16/2/25	14:15	59.0	16/2/25	18:15	57.9	
16/2/25	10:20	58.3	16/2/25	14:20	57.7	16/2/25	18:20	56.5	
16/2/25	10:25	56.8	16/2/25	14:25	59.5	16/2/25	18:25	58.3	
16/2/25	10:30	57.2	16/2/25	14:30	57.1	16/2/25	18:30	60.0	
16/2/25	10:35	58.9	16/2/25	14:35	57.4	16/2/25	18:35	56.6	
16/2/25	10:40	58.1	16/2/25	14:40	57.8	16/2/25	18:40	59.3	
16/2/25	10:45	58.8	16/2/25	14:45	57.4	16/2/25	18:45	60.2	
16/2/25	10:50	58.6	16/2/25	14:50	58.9	16/2/25	18:50	56.1	
16/2/25	10:55	57.3	16/2/25	14:55	58.6	16/2/25	18:55	58.2	
16/2/25	11:00	58.0	16/2/25	15:00	58.5	16/2/25	19:00	57.5	

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM1 EIA Gillman Barracks							
REPORT REFERENCE				11/02/2025 - 18/02/2025							
Start	16/2/25	19:05		Leq12h	55.7			Weighting		A	
End	17/2/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
16/2/25	19:05	58.2	59.9	16/2/25	23:05	52.5	54.1	17/2/25	3:05	48.8	49.2
16/2/25	19:10	56.1		16/2/25	23:10	56.8		17/2/25	3:10	48.2	
16/2/25	19:15	56.9		16/2/25	23:15	52.5		17/2/25	3:15	47.3	
16/2/25	19:20	58.8		16/2/25	23:20	52.2		17/2/25	3:20	47.4	
16/2/25	19:25	58.3		16/2/25	23:25	55.0		17/2/25	3:25	46.2	
16/2/25	19:30	58.7		16/2/25	23:30	54.2		17/2/25	3:30	45.4	
16/2/25	19:35	56.1		16/2/25	23:35	55.2		17/2/25	3:35	53.4	
16/2/25	19:40	59.1		16/2/25	23:40	50.8		17/2/25	3:40	49.7	
16/2/25	19:45	56.9		16/2/25	23:45	53.4		17/2/25	3:45	51.2	
16/2/25	19:50	62.2		16/2/25	23:50	51.8		17/2/25	3:50	47.6	
16/2/25	19:55	66.1	57.4	16/2/25	23:55	54.4	52.2	17/2/25	3:55	47.7	51.7
16/2/25	20:00	57.1		16/2/25	0:00	55.9		17/2/25	4:00	50.4	
16/2/25	20:05	57.2		17/2/25	0:05	52.0		17/2/25	4:05	47.5	
16/2/25	20:10	56.6		17/2/25	0:10	52.2		17/2/25	4:10	58.3	
16/2/25	20:15	57.5		17/2/25	0:15	49.7		17/2/25	4:15	48.5	
16/2/25	20:20	58.1		17/2/25	0:20	51.0		17/2/25	4:20	50.5	
16/2/25	20:25	56.9		17/2/25	0:25	54.6		17/2/25	4:25	49.4	
16/2/25	20:30	57.2		17/2/25	0:30	51.7		17/2/25	4:30	48.3	
16/2/25	20:35	56.3		17/2/25	0:35	53.5		17/2/25	4:35	50.2	
16/2/25	20:40	56.1		17/2/25	0:40	53.4		17/2/25	4:40	46.5	
16/2/25	20:45	59.6	56.5	17/2/25	0:45	53.9	50.3	17/2/25	4:45	50.1	54.5
16/2/25	20:50	58.6		17/2/25	0:50	50.8		17/2/25	4:50	50.5	
16/2/25	20:55	57.3		17/2/25	0:55	49.9		17/2/25	4:55	49.7	
16/2/25	21:00	56.3		17/2/25	1:00	50.7		17/2/25	5:00	53.6	
16/2/25	21:05	56.8		17/2/25	1:05	49.6		17/2/25	5:05	48.5	
16/2/25	21:10	55.2		17/2/25	1:10	49.4		17/2/25	5:10	46.9	
16/2/25	21:15	55.4		17/2/25	1:15	52.2		17/2/25	5:15	48.6	
16/2/25	21:20	57.2		17/2/25	1:20	50.8		17/2/25	5:20	58.6	
16/2/25	21:25	55.5		17/2/25	1:25	48.2		17/2/25	5:25	54.3	
16/2/25	21:30	57.8		17/2/25	1:30	52.2		17/2/25	5:30	52.0	
16/2/25	21:35	56.0	58.2	17/2/25	1:35	51.5	48.8	17/2/25	5:35	58.7	58.5
16/2/25	21:40	56.8		17/2/25	1:40	48.5		17/2/25	5:40	53.8	
16/2/25	21:45	58.2		17/2/25	1:45	46.9		17/2/25	5:45	55.2	
16/2/25	21:50	57.2		17/2/25	1:50	50.5		17/2/25	5:50	52.9	
16/2/25	21:55	56.0		17/2/25	1:55	49.5		17/2/25	5:55	54.5	
16/2/25	22:00	53.9		17/2/25	2:00	51.5		17/2/25	6:00	54.5	
16/2/25	22:05	55.2		17/2/25	2:05	50.2		17/2/25	6:05	56.6	
16/2/25	22:10	55.0		17/2/25	2:10	51.9		17/2/25	6:10	54.2	
16/2/25	22:15	66.2		17/2/25	2:15	48.9		17/2/25	6:15	57.3	
16/2/25	22:20	56.1		17/2/25	2:20	47.2		17/2/25	6:20	57.6	
16/2/25	22:25	56.2	58.2	17/2/25	2:25	45.4	48.8	17/2/25	6:25	56.7	
16/2/25	22:30	55.4		17/2/25	2:30	49.5		17/2/25	6:30	59.8	
16/2/25	22:35	53.1		17/2/25	2:35	46.2		17/2/25	6:35	56.8	
16/2/25	22:40	56.0		17/2/25	2:40	48.0		17/2/25	6:40	60.7	
16/2/25	22:45	56.7		17/2/25	2:45	50.0		17/2/25	6:45	59.7	
16/2/25	22:50	56.6		17/2/25	2:50	47.3		17/2/25	6:50	59.8	
16/2/25	22:55	53.5		17/2/25	2:55	47.4		17/2/25	6:55	59.3	
16/2/25	23:00	51.9		17/2/25	3:00	49.2		17/2/25	7:00	59.0	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM1 EIA Gillman Barracks						
REPORT REFERENCE			11/02/2025 - 18/02/2025						
Start	17/2/25	7:05	Leq12h		62.4	Weighting		A	
End	17/2/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m	
17/2/25	7:05	59.7	17/2/25	11:05	63.3	17/2/25	15:05	60.8	
17/2/25	7:10	61.1	17/2/25	11:10	62.4	17/2/25	15:10	59.8	
17/2/25	7:15	59.1	17/2/25	11:15	61.0	17/2/25	15:15	61.0	
17/2/25	7:20	60.6	17/2/25	11:20	60.8	17/2/25	15:20	61.7	
17/2/25	7:25	59.6	17/2/25	11:25	60.1	17/2/25	15:25	58.7	
17/2/25	7:30	60.6	17/2/25	11:30	61.4	17/2/25	15:30	58.2	
17/2/25	7:35	59.2	17/2/25	11:35	60.3	17/2/25	15:35	62.3	
17/2/25	7:40	59.4	17/2/25	11:40	61.9	17/2/25	15:40	62.5	
17/2/25	7:45	59.9	17/2/25	11:45	59.7	17/2/25	15:45	68.7	
17/2/25	7:50	60.2	17/2/25	11:50	58.4	17/2/25	15:50	66.4	
17/2/25	7:55	59.8	17/2/25	11:55	60.0	17/2/25	15:55	60.2	
17/2/25	8:00	60.3	17/2/25	12:00	59.5	17/2/25	16:00	60.6	
17/2/25	8:05	59.2	17/2/25	12:05	59.6	17/2/25	16:05	61.2	
17/2/25	8:10	59.1	17/2/25	12:10	57.7	17/2/25	16:10	60.9	
17/2/25	8:15	59.8	17/2/25	12:15	61.2	17/2/25	16:15	60.4	
17/2/25	8:20	60.4	17/2/25	12:20	59.9	17/2/25	16:20	61.3	
17/2/25	8:25	60.7	17/2/25	12:25	63.1	17/2/25	16:25	61.0	
17/2/25	8:30	61.1	17/2/25	12:30	62.4	17/2/25	16:30	59.7	
17/2/25	8:35	59.8	17/2/25	12:35	58.7	17/2/25	16:35	59.4	
17/2/25	8:40	61.1	17/2/25	12:40	57.9	17/2/25	16:40	59.1	
17/2/25	8:45	59.6	17/2/25	12:45	62.3	17/2/25	16:45	59.7	
17/2/25	8:50	60.2	17/2/25	12:50	59.8	17/2/25	16:50	61.0	
17/2/25	8:55	59.7	17/2/25	12:55	61.7	17/2/25	16:55	59.1	
17/2/25	9:00	58.7	17/2/25	13:00	60.8	17/2/25	17:00	59.5	
17/2/25	9:05	60.6	17/2/25	13:05	58.9	17/2/25	17:05	59.4	
17/2/25	9:10	60.0	17/2/25	13:10	63.5	17/2/25	17:10	60.7	
17/2/25	9:15	60.6	17/2/25	13:15	60.2	17/2/25	17:15	61.9	
17/2/25	9:20	60.3	17/2/25	13:20	59.6	17/2/25	17:20	63.9	
17/2/25	9:25	58.9	17/2/25	13:25	58.7	17/2/25	17:25	63.5	
17/2/25	9:30	59.6	17/2/25	13:30	58.4	17/2/25	17:30	65.2	
17/2/25	9:35	61.5	17/2/25	13:35	59.6	17/2/25	17:35	66.5	
17/2/25	9:40	60.3	17/2/25	13:40	60.1	17/2/25	17:40	65.3	
17/2/25	9:45	60.0	17/2/25	13:45	60.1	17/2/25	17:45	64.1	
17/2/25	9:50	60.8	17/2/25	13:50	58.8	17/2/25	17:50	62.5	
17/2/25	9:55	59.5	17/2/25	13:55	58.8	17/2/25	17:55	64.2	
17/2/25	10:00	59.2	17/2/25	14:00	57.8	17/2/25	18:00	62.2	
17/2/25	10:05	58.9	17/2/25	14:05	60.3	17/2/25	18:05	58.8	
17/2/25	10:10	62.5	17/2/25	14:10	60.1	17/2/25	18:10	62.2	
17/2/25	10:15	65.0	17/2/25	14:15	60.8	17/2/25	18:15	60.7	
17/2/25	10:20	69.8	17/2/25	14:20	59.1	17/2/25	18:20	59.4	
17/2/25	10:25	64.1	17/2/25	14:25	63.5	17/2/25	18:25	58.8	
17/2/25	10:30	63.9	17/2/25	14:30	63.2	17/2/25	18:30	59.0	
17/2/25	10:35	63.0	17/2/25	14:35	59.8	17/2/25	18:35	60.4	
17/2/25	10:40	63.9	17/2/25	14:40	59.3	17/2/25	18:40	63.2	
17/2/25	10:45	61.7	17/2/25	14:45	57.9	17/2/25	18:45	75.2	
17/2/25	10:50	60.9	17/2/25	14:50	60.6	17/2/25	18:50	72.8	
17/2/25	10:55	62.2	17/2/25	14:55	60.2	17/2/25	18:55	58.5	
17/2/25	11:00	61.0	17/2/25	15:00	62.8	17/2/25	19:00	57.7	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd									
SITE LOCATION			NM1 EIA Gillman Barracks									
REPORT REFERENCE			11/02/2025 - 18/02/2025									
Start	17/2/25		19:05	Leq12h		55.8		Weighting		A		
End	18/2/25		7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	
17/2/25	19:05	58.3	59.4	17/2/25	23:05	57.5	54.8	18/2/25	3:05	50.0	48.3	
17/2/25	19:10	62.3		17/2/25	23:10	56.9		18/2/25	3:10	47.5		
17/2/25	19:15	59.5		17/2/25	23:15	53.1		18/2/25	3:15	47.8		
17/2/25	19:20	58.7		17/2/25	23:20	54.9		18/2/25	3:20	51.1		
17/2/25	19:25	59.0		17/2/25	23:25	54.0		18/2/25	3:25	48.5		
17/2/25	19:30	59.4		17/2/25	23:30	56.8		18/2/25	3:30	49.3		
17/2/25	19:35	59.2		17/2/25	23:35	53.3		18/2/25	3:35	45.7		
17/2/25	19:40	58.7		17/2/25	23:40	55.8		18/2/25	3:40	48.3		
17/2/25	19:45	59.6		17/2/25	23:45	51.3		18/2/25	3:45	47.3		
17/2/25	19:50	57.7		17/2/25	23:50	52.3		18/2/25	3:50	47.0		
17/2/25	19:55	57.9	57.7	17/2/25	23:55	54.8	51.8	18/2/25	3:55	47.0	51.4	
17/2/25	20:00	60.0		17/2/25	0:00	50.0		18/2/25	4:00	47.8		
17/2/25	20:05	58.9		18/2/25	0:05	54.2		18/2/25	4:05	48.5		
17/2/25	20:10	57.1		18/2/25	0:10	52.0		18/2/25	4:10	46.6		
17/2/25	20:15	56.5		18/2/25	0:15	50.4		18/2/25	4:15	47.6		
17/2/25	20:20	58.9		18/2/25	0:20	53.8		18/2/25	4:20	58.2		
17/2/25	20:25	60.1		18/2/25	0:25	52.1		18/2/25	4:25	49.6		
17/2/25	20:30	57.0		18/2/25	0:30	52.8		18/2/25	4:30	48.9		
17/2/25	20:35	56.8		18/2/25	0:35	51.5		18/2/25	4:35	49.8		
17/2/25	20:40	57.6		18/2/25	0:40	48.8		18/2/25	4:40	51.7		
17/2/25	20:45	56.7	56.9	18/2/25	0:45	51.2	49.7	18/2/25	4:45	51.2	55.3	
17/2/25	20:50	56.9		18/2/25	0:50	50.8		18/2/25	4:50	50.2		
17/2/25	20:55	57.6		18/2/25	0:55	50.2		18/2/25	4:55	49.7		
17/2/25	21:00	56.7		18/2/25	1:00	51.3		18/2/25	5:00	48.7		
17/2/25	21:05	55.8		18/2/25	1:05	51.6		18/2/25	5:05	49.8		
17/2/25	21:10	55.4		18/2/25	1:10	50.0		18/2/25	5:10	56.9		
17/2/25	21:15	55.9		18/2/25	1:15	48.4		18/2/25	5:15	51.3		
17/2/25	21:20	56.7		18/2/25	1:20	49.9		18/2/25	5:20	59.1		
17/2/25	21:25	55.4		18/2/25	1:25	47.8		18/2/25	5:25	54.5		
17/2/25	21:30	55.6		18/2/25	1:30	47.1		18/2/25	5:30	57.1		
17/2/25	21:35	54.7	56.8	18/2/25	1:35	53.3	50.3	18/2/25	5:35	54.9	59.6	
17/2/25	21:40	60.5		18/2/25	1:40	51.0		18/2/25	5:40	54.3		
17/2/25	21:45	56.3		18/2/25	1:45	48.8		18/2/25	5:45	55.0		
17/2/25	21:50	58.9		18/2/25	1:50	48.3		18/2/25	5:50	53.4		
17/2/25	21:55	55.1		18/2/25	1:55	47.7		18/2/25	5:55	53.2		
17/2/25	22:00	58.3		18/2/25	2:00	47.0		18/2/25	6:00	55.8		
17/2/25	22:05	56.5		18/2/25	2:05	48.7		18/2/25	6:05	55.2		
17/2/25	22:10	54.0		18/2/25	2:10	48.1		18/2/25	6:10	55.0		
17/2/25	22:15	58.6		18/2/25	2:15	48.5		18/2/25	6:15	56.0		
17/2/25	22:20	56.9		18/2/25	2:20	53.5		18/2/25	6:20	57.1		
17/2/25	22:25	56.3	18/2/25	2:25	50.5	18/2/25		6:25	57.0			
17/2/25	22:30	54.6	18/2/25	2:30	55.4	18/2/25		6:30	60.6			
17/2/25	22:35	56.1	18/2/25	2:35	47.5	18/2/25		6:35	56.6			
17/2/25	22:40	60.5	18/2/25	2:40	49.3	18/2/25		6:40	59.5			
17/2/25	22:45	54.3	18/2/25	2:45	48.8	18/2/25		6:45	65.2			
17/2/25	22:50	55.4	18/2/25	2:50	46.5	18/2/25		6:50	59.0			
17/2/25	22:55	54.8	18/2/25	2:55	48.5	18/2/25		6:55	60.6			
17/2/25	23:00	58.4	56.8	18/2/25	3:00	48.3		50.3	18/2/25	7:00		61.0

CONFIDENTIAL

BASELINE NOISE SURVEY REPORT
NOISE MONITORING ENVIRONMENTAL WORK

REPORT REFERENCE NO: - 25021308/nms/ch2m/NM2GB/NM2

For

CH2M HILL SINGAPORE PTE LTD
150 Beach Road, Gateway West 34th Floor, Singapore 189720

Project Location:
NM2 EIA Gillman Barracks

Attention:
Ms Alicia Wong

Project Title.:
Baseline Noise Survey @ NM2 EIA Gillman Barracks

Monitoring Location:
Gillman Barracks

Date of Monitoring:
13 January 2025 - 20 January 2025

Date of Report:
13 February 2025

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	TABLE OF CONTENT	PAGE
1.0	INTRODUCTION	3
2.0	NOISE SURVEY CONDITION	3
3.0	INSTRUMENTS	4
4.0	NOISE SURVEY TERMS	5
5.0	SURVEYING LOCATIONS	6
6.0	NOISE SURVEY RESULTS	7
7.0	SUMMARY	12
8.0	CONFIRMATION	12
	APPENDIX	
	APPENDIX A: INSTRUMENT LAYOUT PLAN	13
	APPENDIX B: NEA CONSTRUCTION NOISE CONTROL GUIDELINE	14
	APPENDIX C: NOISE MONITORING OFFICER CERTIFICATES	15
	APPENDIX D: INSTRUMENT CALIBRATION CERTIFICATES	17
	APPENDIX E: NOISE DATA	19

1.0 INTRODUCTION

ENSSCOM PTE LTD was commissioned by:

CH2M HILL Singapore Pte Ltd
150 Beach Road, Gateway West 34th Floor, Singapore 189720

The purpose of this survey was to assess the current acoustical environment to establish the baseline background noise level generated before start of construction activities for
Project Title - Baseline Noise Survey @ NM2 EIA Gillman Barracks

The survey is conducted in accordance to the Construction Noise control Guideline on NEA's permissible noise levels for construction sites and industrial premises.

2.0 NOISE SURVEY CONDITION

Report Reference No: 25021308/nms/ch2m/NM2GB/NM2

Date of Report: 13-Feb-2025

Survey On: 13-Jan-2025 (0700hrs) to 20-Jan-2025 (0700hrs)

Operating Condition of Site: All operations were under normal conditions during the noise survey. Construction activities have not begun during period of noise monitoring.

Noise survey was conducted using accepted standard procedures and appropriate sound measuring equipment, which is properly calibrated to ensure accuracy.

All noise measurements were made in terms of A-weighted equivalent continuous sound pressure level in LAeq,T over a period of time T. For example, LAeq,5min are the equivalent sound pressure level measured over a 5-minutes time.

Noise survey was conducted for a full continuous twenty-four (24) hours, Seven (7) days, for **One (1) monitoring points/location**. The noise levels emitted were monitored accordingly and recorded.

The survey is conducted by qualified noise monitoring personnel and reference to Appendix C for their certificate.

3.0 INSTRUMENTS

Monitoring instrument was positioned at between 1.8 meters to 3 meters in height from the floor (Ground Level), Mid Level (5 – 6 storey building height) Or High Level (Roof Level). Overall noise distribution was fairly homogenous throughout the duration of noise survey.

Sound Level Meter used complies and conform to the minimum requirements of a Type 1/Class 1 instrument specified in the International Electrotechnical Commission (IEC) publications of 60651 and 60804.

Before and after the noise measurements, the sound level meter is calibrated to verify the accuracy of the instrument.

3.1 Sound Level Meters

CIRRUS RESEARCH plc, Model: CR191SG
Class 1 Data Logging Sound Level Meter
Serial Number: **G068559**

3.2 Acoustic Calibrator

CIRRUS RESEARCH plc, Model: CR515
Acoustic Calibrator
Serial Number: **60614**

Acoustic Pressure level:	94.01 dB	(reference 20uPa)
Step +20dB:	113.93 dB	
Nominal Frequency:	992 Hz	

The calibration certificate of the monitoring instrument can be found in Appendix D

4.0 NOISE SURVEY TERMS

- 4.1 A Weighting
A standard weighting of the audible frequencies designed to reflect the response of the human ear to noise.
- 4.2 Acoustic Calibrator
An instrument that provides a reference noise source that is used to calibrate and check the performance of a Sound Level Meter.
- 4.3 Broadband
Noise Measurements using parameters, which include all the audible noise
- 4.4 dB(A)
Decibels A Weighted
- 4.5 Decibel (dB)
The units of sound level and noise exposure measurement
- 4.6 Fast Time Weighting
A standard time weighting applied by the Sound Level Meter
- 4.7 IEC 60651:1979
The International Standard for Sound Level Meters
- 4.8 IEC 60804:1984
The International Standard for Integrating & Integrating-Averaging Sound Level Meters
- 4.9 IEC 61260:1995
The International Standard for 1:1 Octave & 1:3 Octave Band Filters
- 4.10 IEC 61672-1:2003
The International Standard for Sound Level Meter and Integrating Averaging Sound Level Meters that replaces both IEC 60651 and IEC 60804
- 4.11 Integrating Averaging Sound Level Meter
A Sound Level Meter which accumulates the total sound energy over a measurement period and calculates an average
- 4.12 LAeq,t
Equivalent continuous sound pressure level. A measure of the average sound pressure level during a period of time, t, in dB with 'A' weighting.
- 4.13 Sound Level
Sound Pressure Level with a Frequency weighting, such as dB(A)
- 4.14 Sound Level Meter
An instrument for measuring various noise parameters
- 4.15 Sound Pressure Level, SPL.
The basic measure of noise loudness, expressed in decibels

6.0 NOISE SURVEY RESULTS

The noise survey was carried out in accordance with the Environmental Pollution Control Act (Chapter 94A, Section 77(1)), Environmental Pollution Control (Control of Noise at Construction Sites) Regulations, 1999.

Monday to Saturday

Types of Affected Building	Maximum Noise Level Permitted for construction sites (reckoned as an equivalent continuous noise level over a period of 5 minutes) in decibel (A)		
	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospitals, Schools, Institutions of Higher Learning, Homes for aged, Sick, etc	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	60 (LEQ 12hr)	50 (LEQ 12hr)	
(b) Residential Buildings Located less than 150m from the construction site where noise is being emitted	90 (Leq 5min)	70 (Leq 5min)	55 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 1hr)	55 (LEQ 1hr)
(c) Buildings (other than those in Paragraphs (a) and (b) above	90 (Leq 5min)	70 (Leq 5min)	70 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 12hr)	

Sunday and Public Holidays

Types of Affected Building	Maximum Noise Level Permitted for construction sites (reckoned as an equivalent continuous noise level over a period of 5 minutes) in decibel (A)		
	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospitals, Schools, Institutions of Higher Learning, Homes for aged, Sick, etc	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	60 (LEQ 12hr)	50 (LEQ 12hr)	
(b) Residential Buildings Located less than 150m from the construction site where noise is being emitted	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	75 (LEQ 12hr)	-	-
(c) Buildings (other than those in Paragraphs (a) and (b) above	90 (Leq 5min)	70 (Leq 5min)	70 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 12hr)	

Note:

No Work Rule on Sundays and Public Holidays

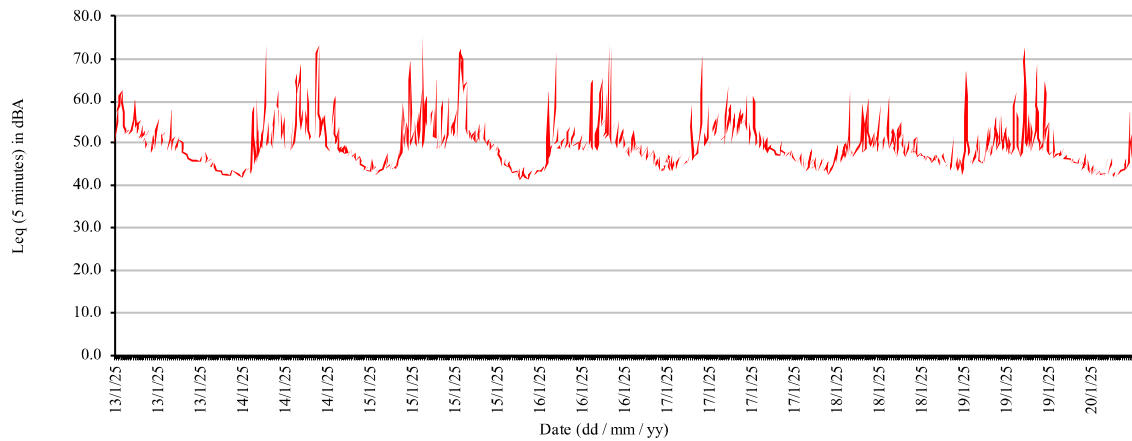
In addition to the settings of the permissible noise limits, NEA has also implemented a rule on prohibition of work on Sundays and Public Holidays (PH) for construction sites located within 150m away from residential premises and noise sensitive premises as follows:

Site Established from 1 September 2011. No work is allowed from 10.00pm on Sat/eve of PH to 7.00am on the following Mon/day after the PH. (For details, please refer to Appendix B)

Survey Results for monitoring point 1 from period : 13-Jan-2025 to 20-Jan-2025

Location : Gillman Barracks

Leq (5 Minutes) Plotted Against Date of Monitoring



Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 5 min in Leq db(A)	Maximum Noise Level permitted for construction sites Leq 5min db (A)
No. NM-2		From		To			
Gillman Barracks	Mon	13/1/25	0700	13/1/25	1900	62.7	90
	Mon	13/1/25	1900	13/1/25	2200	47.6	70
	Mon/Tue	13/1/25	2200	14/1/25	0700	60.8	70
	Tue	14/1/25	0700	14/1/25	1900	73.0	90
	Tue	14/1/25	1900	14/1/25	2200	61.3	70
	Tue/Wed	14/1/25	2200	15/1/25	0700	59.7	70
	Wed	15/1/25	0700	15/1/25	1900	75.4	90
	Wed	15/1/25	1900	15/1/25	2200	55.1	70
	Wed/Thu	15/1/25	2200	16/1/25	0700	62.3	70
	Thu	16/1/25	0700	16/1/25	1900	73.5	90
	Thu	16/1/25	1900	16/1/25	2200	52.9	70
	Thu/Fri	16/1/25	2200	17/1/25	0700	59.4	70
	Fri	17/1/25	0700	17/1/25	1900	70.2	90
	Fri	17/1/25	1900	17/1/25	2200	50.9	70
	Fri/Sat	17/1/25	2200	18/1/25	0700	50.1	70
	Sat	18/1/25	0700	18/1/25	1900	62.4	90
	Sat	18/1/25	1900	18/1/25	2200	51.6	70
	Sat/Sun	18/1/25	2200	19/1/25	0700	67.0	70
	Sun	19/1/25	0700	19/1/25	1900	72.6	90
	Sun	19/1/25	1900	19/1/25	2200	48.6	70
	Sun/Mon	19/1/25	2200	20/1/25	0700	57.2	70

Table 6.1 Summary of Noise Monitoring Results at Maximum Equivalent of LEQ 5 min

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 1 hr in Leq db(A) for the specific period	Maximum Noise Level permitted for construction sites Leq 1 hr db (A)
No. NM-2		From		To			
Gillman Barracks	Mon	13/1/25	1900	13/1/25	2200	46.5	-
	Mon	13/1/25	2200	14/1/25	0700	52.3	-
	Tue	14/1/25	1900	14/1/25	2200	54.8	-
	Tue	14/1/25	2200	15/1/25	0700	52.0	-
	Wed	15/1/25	1900	15/1/25	2200	53.4	-
	Wed	15/1/25	2200	16/1/25	0700	52.9	-
	Thu	16/1/25	1900	16/1/25	2200	49.6	-
	Thu	16/1/25	2200	17/1/25	0700	51.3	-
	Fri	17/1/25	1900	17/1/25	2200	48.5	-
	Fri	17/1/25	2200	18/1/25	0700	47.4	-
	Sat	18/1/25	1900	18/1/25	2200	48.6	-
	Sat	18/1/25	2200	19/1/25	0700	58.1	-
	Sun	19/1/25	1900	19/1/25	2200	47.2	-
	Sun	19/1/25	2200	20/1/25	0700	50.1	-

Table 6.2 Summary of Noise Monitoring Results at Maximum Equivalent of LEQ 1 hr

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 12 hr in Leq db(A)	Maximum Noise Level permitted for construction sites Leq 12 hr db (A)
No. NM-2		From		To			
Gillman Barracks	Mon	13/1/25	0700	13/1/25	1900	53.6	75
	Mon	13/1/25	1900	14/1/25	0700	47.0	65
	Tue	14/1/25	0700	14/1/25	1900	60.0	75
	Tue	14/1/25	1900	15/1/25	0700	48.5	65
	Wed	15/1/25	0700	15/1/25	1900	61.7	75
	Wed	15/1/25	1900	16/1/25	0700	48.4	65
	Thu	16/1/25	0700	16/1/25	1900	58.3	75
	Thu	16/1/25	1900	17/1/25	0700	47.5	65
	Fri	17/1/25	0700	17/1/25	1900	55.5	75
	Fri	17/1/25	1900	18/1/25	0700	46.5	65
	Sat	18/1/25	0700	18/1/25	1900	51.8	75
	Sat	18/1/25	1900	18/1/25	0700	49.9	65
	Sun	18/1/25	0700	19/1/25	1900	56.8	75
	Sun	19/1/25	1900	20/1/25	0700	45.6	65

Table 6.3 Summary of Noise Monitoring Results at LEQ 12 hr

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over specific period in Leq db(A)	Maximum Noise Level permitted for construction sites in db (A)
No. NM-2		From		To			
Gillman Barracks	Mon	13/1/25	700	13/1/25	1900	53.6	90(Leq5min) 75 (Leq12hrs)
	Mon	13/1/25	1900	13/1/25	2200	46.3	70 (Leq5min)
	Mon	13/1/25	2200	14/1/25	0000	44.9	70 (Leq5min)
	Tue	14/1/25	0000	14/1/25	700	47.6	70 (Leq5min)
	Tue	14/1/25	700	14/1/25	1900	60.0	90(Leq5min) 75 (Leq12hrs)
	Tue	14/1/25	1900	14/1/25	2200	51.6	70 (Leq5min)
	Tue	14/1/25	2200	15/1/25	0000	46.4	70 (Leq5min)
	Wed	15/1/25	0000	15/1/25	700	46.8	70 (Leq5min)
	Wed	15/1/25	700	15/1/25	1900	61.7	90(Leq5min) 75 (Leq12hrs)
	Wed	15/1/25	1900	15/1/25	2200	51.4	70 (Leq5min)
	Wed	15/1/25	2200	16/1/25	0000	46.4	70 (Leq5min)
	Thu	16/1/25	0000	16/1/25	700	46.6	70 (Leq5min)
	Thu	16/1/25	700	16/1/25	1900	58.3	90(Leq5min) 75 (Leq12hrs)
	Thu	16/1/25	1900	16/1/25	2200	48.8	70 (Leq5min)
	Thu	16/1/25	2200	17/1/25	0000	47.1	70 (Leq5min)
	Fri	17/1/25	0000	17/1/25	700	47.0	70 (Leq5min)
	Fri	17/1/25	700	17/1/25	1900	55.5	90(Leq5min) 75 (Leq12hrs)
	Fri	17/1/25	1900	17/1/25	2200	48.2	70 (Leq5min)
	Fri	17/1/25	2200	18/1/25	0000	46.9	70 (Leq5min)
	Sat	18/1/25	0000	18/1/25	700	45.4	70 (Leq5min)
	Sat	18/1/25	700	18/1/25	1900	51.8	90(Leq5min) 75 (Leq12hrs)
	Sat	18/1/25	1900	18/1/25	2200	47.3	70 (Leq5min)
	Sat	18/1/25	2200	19/1/25	0000	46.4	70 (Leq5min)
	Sun	19/1/25	0000	19/1/25	700	51.2	70 (Leq5min)
	Sun	19/1/25	700	19/1/25	1900	56.8	90(Leq5min) 75 (Leq12hrs)
	Sun	19/1/25	1900	19/1/25	2200	46.4	70 (Leq5min)
	Sun	19/1/25	2200	19/1/25	0000	44.9	70 (Leq5min)
	Mon	20/1/25	0000	20/1/25	0700	45.3	70 (Leq5min)

Table 6.4 Summary of Noise Monitoring Results at Continuous Equivalent of LEQ for specific period

7.0 SUMMARY

The purpose of this survey was to assess the current acoustical environment to establish the background noise level generated over One (1) monitoring point/location for continuous twenty-four (24) hours and seven (7) days noise monitoring at the boundary of the project site for Project Title

Baseline Noise Survey @ NM2 EIA Gillman Barracks

The location of the nearest Noise Receiver (NSR) :

Gillman Barracks

The findings show that,

The ambience noise at NSR Point NM2 at Gillman Barracks Area, falls within the Permissible limits stated in the NEA Guideline on construction noise control for most of the time period daily.

* Refer to Appendix E for full noise data report.

We recommend submitting an appeal to NEA to adjust the Noise Limit as in table 6.5 for NSR Point NM2 at Gillman Barracks Area

Background Noise Correction Factor

The adjusted value for the maximum noise level shall be obtained by adding the correction factor corresponding to the difference between the maximum permitted level and the background noise level, set out in the Table below, to the higher of the 2 noise levels.

Difference between 2 noise levels in decibels (A)	Correction factor in decibels (A)
a) Below 2	3
b) 2 to less than 4	2
c) 4 to less than 10	1
d) 10 and above	NIL

Proposed New Permissible Noise Level for monitoring point: **Gillman Barracks**

Period	Noise Limit	*Equivalent continuous sound level over period in Leq dB(A) - Background Noise	Difference	Correction Factor	Proposed Adjusted New Permissible Level (dBA)
7am to 7pm (Monday to Saturday)	90 (Leq 5min)	61.7	28.3	0	90 (Leq 5min)
	75 (Leq 12hr)	61.7	13.3	0	75 (Leq 12hr)
7pm to 10pm (Monday to Saturday)	70 (Leq 5min)	51.6	18.4	0	70 (Leq 5min)
10pm to 12am (Monday to Saturday)	70 (Leq 5min)	47.1	22.9	0	70 (Leq 5min)
12am to 7am (Monday to Saturday)	70 (Leq 5min)	47.6	22.4	0	70 (Leq 5min)
7pm to 7am (Monday to Saturday)	65 (Leq 12hrs)	49.9	15.1	0	65 (Leq 12hr)
7am to 7pm (Sunday)	90 (Leq 5min)	64.7	25.3	0	90 (Leq 5min)
	75 (Leq 12hr)	64.7	10.3	0	75 (Leq 12hr)
7pm to 10pm (Sunday)	70 (Leq 5min)	56.8	13.2	0	70 (Leq 5min)
10pm to 12am (Sunday)	70 (Leq 5min)	44.9	25.1	0	70 (Leq 5min)
12am to 7am (Sunday)	70 (Leq 5min)	51.2	18.8	0	70 (Leq 5min)
7pm to 7am (Sunday)	65 (Leq 12hrs)	45.6	19.4	0	65 (Leq 12hr)

* The highest equivalent continuous sound level in Leq dB(A) between Monday to Saturday is taken for calculating the adjusted new permissible level for each period.

Table 6.5 Proposed New Permissible Noise Level

8.0 CONFIRMATION

We, ENSSCOM PTE LTD, certify that the information given is correct. The noise survey was conducted for

CH2M HILL Singapore Pte Ltd

150 Beach Road, Gateway West 34th Floor, Singapore 189720

To carry out One (1) monitoring points/locations for continuous twenty-four (24) hours and seven (7) days noise monitoring at the boundary of the project site for Project Title

Baseline Noise Survey @ NM2 EIA Gillman Barracks

was carried out as described in this report and the results resented herein.

Date of Monitoring:

From 13/1/25 (0700hrs) to 20/1/25 (0700hrs)

Hoo Hian Choon (Mr)
Noise Monitoring Consultant
13-Feb-2025

APPENDIX A : INSTRUMENT LAYOUT PLAN



APPENDIX B: NEA CONSTRUCTION NOISE CONTROL GUIDELINE

Construction Noise Control

Maximum Permissible Noise Levels for Construction Work Commenced on or after 1st October 2007

Noise Regulation

Mondays to Saturdays

Types of affected buildings	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospital, schools, institutions of higher learning, homes for aged sick, etc.	60 dBA (Leq* 12 hrs)	50 dBA (Leq 12 hrs)	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(b) Residential buildings located less than 150m from the construction site	75 dBA (Leq 12 hrs)	65 dBA (Leq 1 hr)	55 dBA (Leq 1 hr)
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)
(c) Buildings other than those in (a) and (b) above	75 dBA (Leq 12 hrs)	65 dBA (Leq 12 hrs)	
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	

Sundays and Public Holidays

Types of affected buildings	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospital, schools, institutions of higher learning, homes for aged sick, etc.	60 dBA (Leq* 12 hrs)	50 dBA (Leq 12 hrs)	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(b) Residential buildings located less than 150m from the construction site	75 dBA (Leq 12 hrs)	-	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(c) Buildings other than those in (a) and (b) above	75 dBA (Leq 12 hrs)	65 dBA (Leq 12 hrs)	
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	

APPENDIX C: NOISE MONITORING OFFICER CERTIFICATES

S/No: 02/20/159



Acoustical Laboratory Pte Ltd
CENTRE FOR ENVIRONMENTAL CONSULTATION AND TRAINING

Certificate of Competence

This is to certify that

Hoo Hian Choon

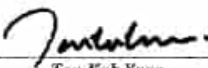
has attended and passed an examination
for a course on

Noise Monitoring

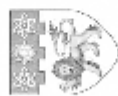
held between 22nd May 2002 and 24th May 2002

Acoustical Laboratory is approved by the Ministry of
Labour as a Training Centre for the
Noise Monitoring Course




Tan Kok Yang
Course Co-ordinator


Koh L. B.
Managing Director



NANYANG
TECHNOLOGICAL
UNIVERSITY

This is to certify that

Hoo Hian Choon

has successfully completed the 2½-day course

Industrial Noise Control

A handwritten signature in black ink, reading "Seah Ben Han".

Seah Ben Han
Director
Centre for Continuing Education

27 August 2010

APPENDIX D: INSTRUMENT CALIBRATION CERTIFICATES



Certificate of Calibration

Equipment Details

Instrument Manufacturer	Cirrus Research plc
Instrument Type	CR: 191 SG
Description	Sound Level Meter
Serial Number	0208559

Calibration Procedure

The instrument detailed above has been calibrated to the published test and calibration data as detailed in the instrument hand book, using the techniques recommended in the latest revisions of the International Standards IEC 61672-1:2013, IEC 61672-1:2002, IEC 60951:1979, IEC 60804:2001, IEC 61260:1985, IEC 60943:2003, IEC 60962:1997, IEC 61032:1993, ANSI S1.4-1983, ANSI S1.11-1990 and ANSI S1.45-1997 where applicable.
Sound Level Meter: All Calibration procedures were carried out by substituting the microphone capsule with a suitable electrical signal, apart from the final acoustic calibration.

Calibration Traceability

The instrument detailed above was calibrated against the calibration laboratory standards held by Cirrus Research plc. These are traceable to International Standards (A,0.0). The standards are:

Acoustic Calibrator	D & K 4236	Serial Number	3041345	Calibration Ref	551020085682242
Microphone Type	MLA 224	Serial Number	214953B	Calibration Ref	187019

Calibrated by

Calibration Date

10 December 2024

Calibration Certificate Number

128698

This Calibration Certificate is valid for 12 months from the date above.

Cirrus Research plc, Acoustic House, Bradlington Road, Uxbridge, North Yorks, YO14 0PH
Telephone: +44 (0) 1724 891655 Fax: +44 (0) 1724 891742
Email: sales@cirrusresearch.co.uk

CERTIFICATE OF CALIBRATION

ISSUED BY: Cirrus Research plc

DATE OF ISSUE: 03 January 2025 CERTIFICATE NUMBER: 229571



Cirrus Research plc
Acoustic House
Bridlington Road
Hunmanby
North Yorkshire
YO14 0PH
United Kingdom

Page 1 of 2

Approved signatory
A. Windress
Electronically signed:

Sound Calibrator : IEC 60942:2003

Instrument information

Manufacturer: Cirrus Research plc

Notes:

Model: CR-515

Serial number: 60514

Class: 1

Test summary

Date of calibration: 03 January 2025

The sound calibrator detailed above has been calibrated to the published data as described in the operating manual and in the half-inch configuration. The procedures and techniques used are as described in IEC60942_2003 Annex B – Periodic Tests and three determinations of the sound pressure level, frequency and total distortion were made.

The sound pressure level was measured using a WS2F condenser microphone type MK-224 manufactured by Cirrus Research plc.

The results have been corrected to the reference pressure of 101.33 kPa using the manufacturer's data.

As public evidence was available, from a testing organisation responsible for approving the results of pattern evaluation tests, to demonstrate that the model of sound calibrator fully conformed to the requirements for pattern evaluation described in Annex A of IEC 60942:2003, the sound calibrator tested is considered to conform to all the Class 1 requirements of IEC 60942:2003.

The manufacturer's product information indicates that this model of sound calibrator has been formally pattern approved to IEC60942_2003 Annex A to Class 1. This has been confirmed by Laboratoire National d'Essais (LNE), Physikalisch-Technische Bundesanstalt (PTB) and APPLUS (APPLUS).

Notes:

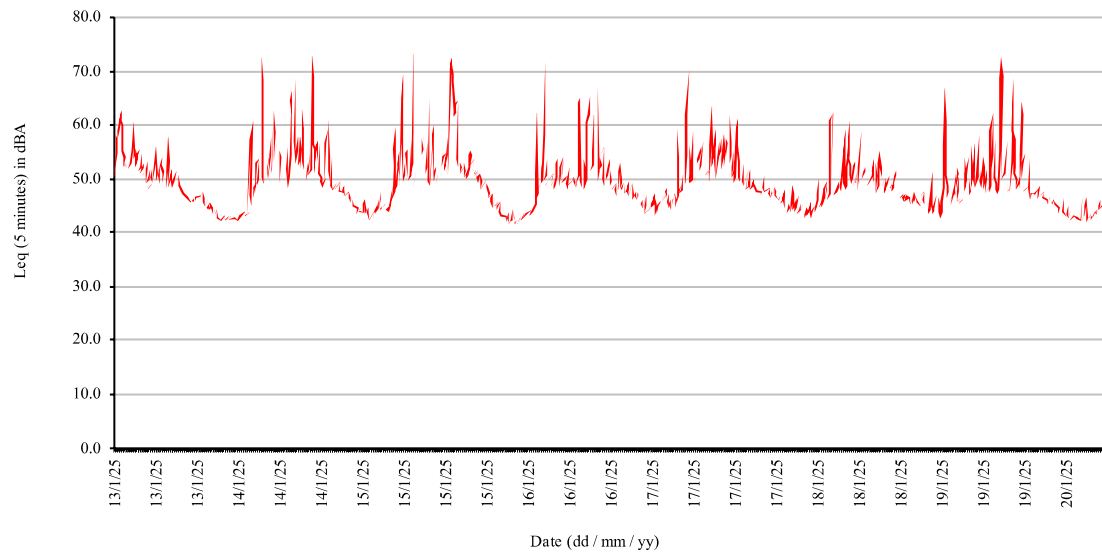
This certificate provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory. The results within this certificate relate only to the items calibrated. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%.

APPENDIX E

CONSTRUCTION SITE NOISE MONITORING DATA AND CHART

NAME OF COMPANY	CH2M HILL Singapore Pte Ltd		
SITE LOCATION	NM2 EIA Gillman Barracks		
REPORT REFERENCE	13/01/2025 - 20/01/2025		
MODE	Environment	FREQUENCY WEIGHTING	A

Leq (5 Minutes) Plotted Against Date of Monitoring



NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM2 EIA Gillman Barracks								
REPORT REFERENCE			13/01/2025 - 20/01/2025								
Start	13/1/25		7:05	Leq12h			53.6	Weighting		A	
End	13/1/25		19:00								
Date	Time	Leq5m		Date	Time	Leq5m		Date	Time	Leq5m	
13/1/25	7:05	50.5		13/1/25	11:05	51.5		13/1/25	15:05	50.9	
13/1/25	7:10	50.3		13/1/25	11:10	53.1		13/1/25	15:10	49.3	
13/1/25	7:15	50.6		13/1/25	11:15	51.4		13/1/25	15:15	51.4	
13/1/25	7:20	54.9		13/1/25	11:20	52.0		13/1/25	15:20	50.0	
13/1/25	7:25	58.3		13/1/25	11:25	54.7		13/1/25	15:25	48.8	
13/1/25	7:30	59.3		13/1/25	11:30	51.9		13/1/25	15:30	48.4	
13/1/25	7:35	57.5		13/1/25	11:35	51.1		13/1/25	15:35	49.8	
13/1/25	7:40	59.0		13/1/25	11:40	52.2		13/1/25	15:40	49.2	
13/1/25	7:45	59.4		13/1/25	11:45	53.1		13/1/25	15:45	50.4	
13/1/25	7:50	59.1		13/1/25	11:50	50.3		13/1/25	15:50	48.5	
13/1/25	7:55	61.2		13/1/25	11:55	51.2		13/1/25	15:55	48.4	
13/1/25	8:00	62.7		13/1/25	12:00	49.7		13/1/25	16:00	51.3	
13/1/25	8:05	61.9		13/1/25	12:05	49.0		13/1/25	16:05	57.9	
13/1/25	8:10	60.9		13/1/25	12:10	53.2		13/1/25	16:10	53.3	
13/1/25	8:15	60.0		13/1/25	12:15	51.7		13/1/25	16:15	51.2	
13/1/25	8:20	57.4		13/1/25	12:20	53.2		13/1/25	16:20	48.5	
13/1/25	8:25	56.5		13/1/25	12:25	51.8		13/1/25	16:25	48.4	
13/1/25	8:30	55.3		13/1/25	12:30	49.0		13/1/25	16:30	48.8	
13/1/25	8:35	53.9		13/1/25	12:35	49.7		13/1/25	16:35	50.7	
13/1/25	8:40	53.0		13/1/25	12:40	48.9		13/1/25	16:40	51.8	
13/1/25	8:45	52.3		13/1/25	12:45	49.8		13/1/25	16:45	50.4	
13/1/25	8:50	53.0		13/1/25	12:50	51.9		13/1/25	16:50	50.1	
13/1/25	8:55	52.3		13/1/25	12:55	48.6		13/1/25	16:55	50.5	
13/1/25	9:00	51.5		13/1/25	13:00	47.9		13/1/25	17:00	48.5	
13/1/25	9:05	52.8		13/1/25	13:05	49.0		13/1/25	17:05	49.4	
13/1/25	9:10	51.6		13/1/25	13:10	48.4		13/1/25	17:10	49.3	
13/1/25	9:15	53.0		13/1/25	13:15	51.9		13/1/25	17:15	49.5	
13/1/25	9:20	51.9		13/1/25	13:20	50.2		13/1/25	17:20	51.6	
13/1/25	9:25	51.6		13/1/25	13:25	49.8		13/1/25	17:25	49.6	
13/1/25	9:30	52.0	13/1/25	13:30	49.4	13/1/25	17:30	48.6			
13/1/25	9:35	51.6	13/1/25	13:35	50.7	13/1/25	17:35	50.7			
13/1/25	9:40	53.0	13/1/25	13:40	49.0	13/1/25	17:40	51.0			
13/1/25	9:45	53.9	13/1/25	13:45	49.1	13/1/25	17:45	50.6			
13/1/25	9:50	53.8	13/1/25	13:50	49.5	13/1/25	17:50	51.2			
13/1/25	9:55	53.0	13/1/25	13:55	52.9	13/1/25	17:55	50.2			
13/1/25	10:00	56.1	13/1/25	14:00	55.8	13/1/25	18:00	50.2			
13/1/25	10:05	58.0	13/1/25	14:05	51.1	13/1/25	18:05	48.7			
13/1/25	10:10	55.5	13/1/25	14:10	49.6	13/1/25	18:10	48.5			
13/1/25	10:15	60.4	13/1/25	14:15	49.0	13/1/25	18:15	47.9			
13/1/25	10:20	54.3	13/1/25	14:20	56.0	13/1/25	18:20	48.0			
13/1/25	10:25	53.5	13/1/25	14:25	51.4	13/1/25	18:25	47.5			
13/1/25	10:30	53.6	13/1/25	14:30	51.7	13/1/25	18:30	47.4			
13/1/25	10:35	55.4	13/1/25	14:35	52.4	13/1/25	18:35	47.6			
13/1/25	10:40	53.7	13/1/25	14:40	50.6	13/1/25	18:40	47.3			
13/1/25	10:45	53.0	13/1/25	14:45	49.3	13/1/25	18:45	47.4			
13/1/25	10:50	52.0	13/1/25	14:50	54.0	13/1/25	18:50	47.3			
13/1/25	10:55	54.3	13/1/25	14:55	51.5	13/1/25	18:55	47.3			
13/1/25	11:00	55.6	13/1/25	15:00	52.7	13/1/25	19:00	47.3			

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM2 EIA Gillman Barracks							
REPORT REFERENCE				13/01/2025 - 20/01/2025							
Start	13/1/25	19:05		Leq12h	47.0			Weighting		A	
End	14/1/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
13/1/25	19:05	46.8		13/1/25	23:05	45.9		14/1/25	3:05	42.6	
13/1/25	19:10	46.9		13/1/25	23:10	44.3		14/1/25	3:10	42.6	
13/1/25	19:15	46.6		13/1/25	23:15	45.3		14/1/25	3:15	42.6	
13/1/25	19:20	46.3		13/1/25	23:20	44.6		14/1/25	3:20	42.5	
13/1/25	19:25	46.5		13/1/25	23:25	44.2		14/1/25	3:25	42.7	
13/1/25	19:30	47.0		13/1/25	23:30	44.3		14/1/25	3:30	42.8	
13/1/25	19:35	46.5		13/1/25	23:35	44.2		14/1/25	3:35	42.7	
13/1/25	19:40	46.1		13/1/25	23:40	44.3		14/1/25	3:40	42.6	
13/1/25	19:45	46.1		13/1/25	23:45	44.6		14/1/25	3:45	42.5	
13/1/25	19:50	46.0		13/1/25	23:50	43.4		14/1/25	3:50	42.5	
13/1/25	19:55	45.7		13/1/25	23:55	44.2		14/1/25	3:55	42.4	
13/1/25	20:00	46.3	46.4	13/1/25	0:00	43.7	44.5	14/1/25	4:00	42.8	42.6
13/1/25	20:05	45.7		14/1/25	0:05	43.6		14/1/25	4:05	42.2	
13/1/25	20:10	45.8		14/1/25	0:10	44.2		14/1/25	4:10	42.4	
13/1/25	20:15	46.0		14/1/25	0:15	43.6		14/1/25	4:15	43.0	
13/1/25	20:20	46.1		14/1/25	0:20	43.3		14/1/25	4:20	43.6	
13/1/25	20:25	46.0		14/1/25	0:25	43.5		14/1/25	4:25	43.6	
13/1/25	20:30	46.6		14/1/25	0:30	43.2		14/1/25	4:30	43.6	
13/1/25	20:35	46.5		14/1/25	0:35	43.2		14/1/25	4:35	43.8	
13/1/25	20:40	45.8		14/1/25	0:40	42.8		14/1/25	4:40	43.4	
13/1/25	20:45	46.1		14/1/25	0:45	42.7		14/1/25	4:45	43.2	
13/1/25	20:50	46.4		14/1/25	0:50	43.0		14/1/25	4:50	43.3	
13/1/25	20:55	46.2		14/1/25	0:55	42.9		14/1/25	4:55	43.3	
13/1/25	21:00	46.1	46.1	14/1/25	1:00	42.8	43.3	14/1/25	5:00	43.9	43.3
13/1/25	21:05	46.0		14/1/25	1:05	42.2		14/1/25	5:05	43.6	
13/1/25	21:10	46.4		14/1/25	1:10	42.1		14/1/25	5:10	44.1	
13/1/25	21:15	47.0		14/1/25	1:15	42.6		14/1/25	5:15	43.5	
13/1/25	21:20	46.0		14/1/25	1:20	42.6		14/1/25	5:20	43.9	
13/1/25	21:25	46.3		14/1/25	1:25	42.4		14/1/25	5:25	43.1	
13/1/25	21:30	46.5		14/1/25	1:30	42.8		14/1/25	5:30	43.8	
13/1/25	21:35	46.7		14/1/25	1:35	42.3		14/1/25	5:35	44.1	
13/1/25	21:40	46.2		14/1/25	1:40	43.2		14/1/25	5:40	43.3	
13/1/25	21:45	46.0		14/1/25	1:45	42.8		14/1/25	5:45	43.6	
13/1/25	21:50	46.3		14/1/25	1:50	42.8		14/1/25	5:50	57.3	
13/1/25	21:55	47.6		14/1/25	1:55	42.7		14/1/25	5:55	58.8	
13/1/25	22:00	46.4	46.5	14/1/25	2:00	42.4	42.6	14/1/25	6:00	51.8	51.4
13/1/25	22:05	45.9		14/1/25	2:05	42.4		14/1/25	6:05	46.8	
13/1/25	22:10	45.4		14/1/25	2:10	43.3		14/1/25	6:10	45.0	
13/1/25	22:15	45.8		14/1/25	2:15	42.6		14/1/25	6:15	48.4	
13/1/25	22:20	45.2		14/1/25	2:20	42.2		14/1/25	6:20	60.8	
13/1/25	22:25	45.6		14/1/25	2:25	43.1		14/1/25	6:25	48.5	
13/1/25	22:30	45.8		14/1/25	2:30	42.8		14/1/25	6:30	45.3	
13/1/25	22:35	44.9		14/1/25	2:35	42.4		14/1/25	6:35	53.6	
13/1/25	22:40	46.4		14/1/25	2:40	42.6		14/1/25	6:40	50.0	
13/1/25	22:45	44.6		14/1/25	2:45	42.3		14/1/25	6:45	46.7	
13/1/25	22:50	44.7		14/1/25	2:50	42.4		14/1/25	6:50	48.4	
13/1/25	22:55	44.8		14/1/25	2:55	42.3		14/1/25	6:55	49.7	
13/1/25	23:00	44.6	45.3	14/1/25	3:00	42.5	42.6	14/1/25	7:00	47.4	52.3

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM2 EIA Gillman Barracks						
REPORT REFERENCE			13/01/2025 - 20/01/2025						
Start	14/1/25	7:05	Leq12h	60.0			Weighting		A
End	14/1/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m		Date	Time	Leq5m
14/1/25	7:05	50.1	14/1/25	11:05	49.0		14/1/25	15:05	51.7
14/1/25	7:10	52.8	14/1/25	11:10	48.9		14/1/25	15:10	50.9
14/1/25	7:15	53.7	14/1/25	11:15	49.4		14/1/25	15:15	52.0
14/1/25	7:20	49.9	14/1/25	11:20	49.3		14/1/25	15:20	53.9
14/1/25	7:25	49.8	14/1/25	11:25	51.4		14/1/25	15:25	50.4
14/1/25	7:30	48.6	14/1/25	11:30	51.9		14/1/25	15:30	50.1
14/1/25	7:35	54.6	14/1/25	11:35	50.3		14/1/25	15:35	52.7
14/1/25	7:40	50.1	14/1/25	11:40	53.9		14/1/25	15:40	49.4
14/1/25	7:45	58.8	14/1/25	11:45	53.2		14/1/25	15:45	53.1
14/1/25	7:50	73.0	14/1/25	11:50	56.8		14/1/25	15:50	53.3
14/1/25	7:55	68.3	14/1/25	11:55	62.2		14/1/25	15:55	51.9
14/1/25	8:00	50.5	14/1/25	12:00	48.7		14/1/25	16:00	54.8
14/1/25	8:05	54.9	14/1/25	12:05	55.9		14/1/25	16:05	50.8
14/1/25	8:10	50.3	14/1/25	12:10	48.7		14/1/25	16:10	51.7
14/1/25	8:15	49.2	14/1/25	12:15	51.8		14/1/25	16:15	66.1
14/1/25	8:20	48.7	14/1/25	12:20	48.4		14/1/25	16:20	71.1
14/1/25	8:25	48.6	14/1/25	12:25	48.5		14/1/25	16:25	73.0
14/1/25	8:30	49.6	14/1/25	12:30	47.9		14/1/25	16:30	69.2
14/1/25	8:35	52.2	14/1/25	12:35	48.0		14/1/25	16:35	61.2
14/1/25	8:40	52.7	14/1/25	12:40	50.3		14/1/25	16:40	57.1
14/1/25	8:45	52.3	14/1/25	12:45	54.5		14/1/25	16:45	56.4
14/1/25	8:50	50.2	14/1/25	12:50	64.4		14/1/25	16:50	55.6
14/1/25	8:55	50.8	14/1/25	12:55	66.3		14/1/25	16:55	52.4
14/1/25	9:00	54.3	14/1/25	13:00	64.6		14/1/25	17:00	51.2
14/1/25	9:05	49.0	14/1/25	13:05	61.9		14/1/25	17:05	55.2
14/1/25	9:10	48.6	14/1/25	13:10	65.8		14/1/25	17:10	56.4
14/1/25	9:15	54.6	14/1/25	13:15	66.4		14/1/25	17:15	57.0
14/1/25	9:20	58.0	14/1/25	13:20	62.1		14/1/25	17:20	55.8
14/1/25	9:25	49.7	14/1/25	13:25	65.2		14/1/25	17:25	56.4
14/1/25	9:30	53.8	14/1/25	13:30	68.9		14/1/25	17:30	53.2
14/1/25	9:35	51.8	14/1/25	13:35	64.1		14/1/25	17:35	56.7
14/1/25	9:40	51.3	14/1/25	13:40	57.1		14/1/25	17:40	55.5
14/1/25	9:45	51.0	14/1/25	13:45	53.0		14/1/25	17:45	51.2
14/1/25	9:50	51.0	14/1/25	13:50	52.7		14/1/25	17:50	51.2
14/1/25	9:55	62.6	14/1/25	13:55	55.3		14/1/25	17:55	50.1
14/1/25	10:00	58.6	14/1/25	14:00	58.0		14/1/25	18:00	49.5
14/1/25	10:05	57.8	14/1/25	14:05	57.9		14/1/25	18:05	49.5
14/1/25	10:10	55.4	14/1/25	14:10	52.7		14/1/25	18:10	49.0
14/1/25	10:15	53.3	14/1/25	14:15	53.3		14/1/25	18:15	49.3
14/1/25	10:20	57.3	14/1/25	14:20	57.7		14/1/25	18:20	49.3
14/1/25	10:25	52.7	14/1/25	14:25	55.5		14/1/25	18:25	48.5
14/1/25	10:30	51.5	14/1/25	14:30	51.7		14/1/25	18:30	49.2
14/1/25	10:35	50.8	14/1/25	14:35	60.0		14/1/25	18:35	50.1
14/1/25	10:40	56.6	14/1/25	14:40	63.2		14/1/25	18:40	51.0
14/1/25	10:45	53.3	14/1/25	14:45	59.5		14/1/25	18:45	49.0
14/1/25	10:50	56.2	14/1/25	14:50	57.6		14/1/25	18:50	56.6
14/1/25	10:55	55.1	14/1/25	14:55	55.6		14/1/25	18:55	59.3
14/1/25	11:00	53.9	14/1/25	15:00	53.3		14/1/25	19:00	53.4

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM2 EIA Gillman Barracks							
REPORT REFERENCE				13/01/2025 - 20/01/2025							
Start	14/1/25	19:05		Leq12h	48.5			Weighting		A	
End	15/1/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
14/1/25	19:05	59.7		14/1/25	23:05	45.9		15/1/25	3:05	44.2	
14/1/25	19:10	61.3		14/1/25	23:10	46.8		15/1/25	3:10	44.1	
14/1/25	19:15	54.0		14/1/25	23:15	46.2		15/1/25	3:15	43.4	
14/1/25	19:20	52.2		14/1/25	23:20	46.2		15/1/25	3:20	44.9	
14/1/25	19:25	51.5		14/1/25	23:25	45.9		15/1/25	3:25	43.8	
14/1/25	19:30	51.0		14/1/25	23:30	45.0		15/1/25	3:30	44.5	
14/1/25	19:35	49.6		14/1/25	23:35	45.0		15/1/25	3:35	45.4	
14/1/25	19:40	50.9		14/1/25	23:40	45.3		15/1/25	3:40	46.0	
14/1/25	19:45	54.0		14/1/25	23:45	45.2		15/1/25	3:45	45.2	
14/1/25	19:50	48.6		14/1/25	23:50	44.6		15/1/25	3:50	47.6	
14/1/25	19:55	48.3		14/1/25	23:55	45.2		15/1/25	3:55	46.1	
14/1/25	20:00	48.8	54.8	14/1/25	0:00	44.6	45.5	15/1/25	4:00	46.3	45.3
14/1/25	20:05	48.0		15/1/25	0:05	44.7		15/1/25	4:05	44.1	
14/1/25	20:10	48.0		15/1/25	0:10	44.3		15/1/25	4:10	44.1	
14/1/25	20:15	49.2		15/1/25	0:15	43.6		15/1/25	4:15	45.0	
14/1/25	20:20	48.2		15/1/25	0:20	43.9		15/1/25	4:20	44.3	
14/1/25	20:25	48.5		15/1/25	0:25	44.5		15/1/25	4:25	44.6	
14/1/25	20:30	48.1		15/1/25	0:30	44.1		15/1/25	4:30	44.1	
14/1/25	20:35	47.8		15/1/25	0:35	43.9		15/1/25	4:35	44.4	
14/1/25	20:40	48.0		15/1/25	0:40	43.5		15/1/25	4:40	44.5	
14/1/25	20:45	48.0		15/1/25	0:45	44.1		15/1/25	4:45	45.3	
14/1/25	20:50	47.7		15/1/25	0:50	43.7		15/1/25	4:50	45.0	
14/1/25	20:55	49.6		15/1/25	0:55	44.1		15/1/25	4:55	45.1	
14/1/25	21:00	47.5	48.3	15/1/25	1:00	43.6	44.0	15/1/25	5:00	44.1	44.6
14/1/25	21:05	47.7		15/1/25	1:05	43.7		15/1/25	5:05	43.7	
14/1/25	21:10	47.8		15/1/25	1:10	44.3		15/1/25	5:10	45.0	
14/1/25	21:15	47.4		15/1/25	1:15	45.5		15/1/25	5:15	44.8	
14/1/25	21:20	47.6		15/1/25	1:20	46.2		15/1/25	5:20	45.3	
14/1/25	21:25	47.6		15/1/25	1:25	45.8		15/1/25	5:25	44.5	
14/1/25	21:30	47.8		15/1/25	1:30	45.8		15/1/25	5:30	44.0	
14/1/25	21:35	47.1		15/1/25	1:35	44.4		15/1/25	5:35	44.9	
14/1/25	21:40	47.8		15/1/25	1:40	43.6		15/1/25	5:40	44.9	
14/1/25	21:45	47.5		15/1/25	1:45	43.4		15/1/25	5:45	45.3	
14/1/25	21:50	48.8		15/1/25	1:50	44.0		15/1/25	5:50	48.6	
14/1/25	21:55	47.9		15/1/25	1:55	44.5		15/1/25	5:55	45.9	
14/1/25	22:00	48.0	47.8	15/1/25	2:00	43.8	44.7	15/1/25	6:00	45.7	45.4
14/1/25	22:05	47.9		15/1/25	2:05	44.1		15/1/25	6:05	45.7	
14/1/25	22:10	48.5		15/1/25	2:10	44.0		15/1/25	6:10	45.5	
14/1/25	22:15	47.0		15/1/25	2:15	43.4		15/1/25	6:15	45.9	
14/1/25	22:20	47.3		15/1/25	2:20	42.5		15/1/25	6:20	47.8	
14/1/25	22:25	46.9		15/1/25	2:25	43.4		15/1/25	6:25	59.7	
14/1/25	22:30	47.7		15/1/25	2:30	42.9		15/1/25	6:30	55.7	
14/1/25	22:35	48.2		15/1/25	2:35	43.6		15/1/25	6:35	48.0	
14/1/25	22:40	46.7		15/1/25	2:40	43.3		15/1/25	6:40	48.7	
14/1/25	22:45	46.2		15/1/25	2:45	42.9		15/1/25	6:45	48.4	
14/1/25	22:50	46.0		15/1/25	2:50	44.1		15/1/25	6:50	48.9	
14/1/25	22:55	46.4		15/1/25	2:55	42.9		15/1/25	6:55	49.2	
14/1/25	23:00	46.4	47.2	15/1/25	3:00	43.4	43.4	15/1/25	7:00	49.0	52.0

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd							
SITE LOCATION			NM2 EIA Gillman Barracks							
REPORT REFERENCE			13/01/2025 - 20/01/2025							
Start	15/1/25	7:05	Leq12h	61.7				Weighting		A
End	15/1/25	19:00								
Date	Time	Leq5m	Date	Time	Leq5m		Date	Time	Leq5m	
15/1/25	7:05	55.0	15/1/25	11:05	56.8		15/1/25	15:05	54.4	
15/1/25	7:10	53.0	15/1/25	11:10	54.6		15/1/25	15:10	57.8	
15/1/25	7:15	50.6	15/1/25	11:15	58.0		15/1/25	15:15	53.2	
15/1/25	7:20	52.6	15/1/25	11:20	53.8		15/1/25	15:20	52.3	
15/1/25	7:25	50.7	15/1/25	11:25	54.5		15/1/25	15:25	51.1	
15/1/25	7:30	48.3	15/1/25	11:30	58.2		15/1/25	15:30	51.2	
15/1/25	7:35	48.2	15/1/25	11:35	51.5		15/1/25	15:35	54.2	
15/1/25	7:40	65.0	15/1/25	11:40	57.2		15/1/25	15:40	50.8	
15/1/25	7:45	69.5	15/1/25	11:45	52.1		15/1/25	15:45	53.7	
15/1/25	7:50	57.2	15/1/25	11:50	51.8		15/1/25	15:50	70.6	
15/1/25	7:55	57.2	15/1/25	11:55	51.1		15/1/25	15:55	72.4	
15/1/25	8:00	49.5	15/1/25	12:00	65.0		15/1/25	16:00	72.6	
15/1/25	8:05	50.8	15/1/25	12:05	51.2		15/1/25	16:05	71.2	
15/1/25	8:10	53.0	15/1/25	12:10	49.7		15/1/25	16:10	69.6	
15/1/25	8:15	49.8	15/1/25	12:15	53.0		15/1/25	16:15	68.8	
15/1/25	8:20	51.0	15/1/25	12:20	49.6		15/1/25	16:20	67.8	
15/1/25	8:25	55.7	15/1/25	12:25	48.9		15/1/25	16:25	68.5	
15/1/25	8:30	54.8	15/1/25	12:30	49.3		15/1/25	16:30	62.2	
15/1/25	8:35	50.1	15/1/25	12:35	49.6		15/1/25	16:35	63.0	
15/1/25	8:40	49.4	15/1/25	12:40	48.7		15/1/25	16:40	61.7	
15/1/25	8:45	50.1	15/1/25	12:45	49.2		15/1/25	16:45	63.8	
15/1/25	8:50	49.4	15/1/25	12:50	49.1		15/1/25	16:50	64.6	
15/1/25	8:55	50.6	15/1/25	12:55	60.2		15/1/25	16:55	60.6	
15/1/25	9:00	57.6	15/1/25	13:00	58.1		15/1/25	17:00	56.1	
15/1/25	9:05	54.2	15/1/25	13:05	49.5		15/1/25	17:05	53.5	
15/1/25	9:10	49.9	15/1/25	13:10	51.4		15/1/25	17:10	53.2	
15/1/25	9:15	49.4	15/1/25	13:15	51.8		15/1/25	17:15	52.3	
15/1/25	9:20	52.9	15/1/25	13:20	52.0		15/1/25	17:20	52.4	
15/1/25	9:25	54.4	15/1/25	13:25	52.2		15/1/25	17:25	53.1	
15/1/25	9:30	63.0	15/1/25	13:30	51.7		15/1/25	17:30	52.6	
15/1/25	9:35	73.3	15/1/25	13:35	49.0		15/1/25	17:35	52.2	
15/1/25	9:40	58.3	15/1/25	13:40	50.6		15/1/25	17:40	51.1	
15/1/25	9:45	75.4	15/1/25	13:45	49.1		15/1/25	17:45	51.2	
15/1/25	9:50	54.6	15/1/25	13:50	51.9		15/1/25	17:50	52.1	
15/1/25	9:55	48.6	15/1/25	13:55	60.1		15/1/25	17:55	50.7	
15/1/25	10:00	52.6	15/1/25	14:00	52.3		15/1/25	18:00	51.7	
15/1/25	10:05	50.9	15/1/25	14:05	60.6		15/1/25	18:05	51.9	
15/1/25	10:10	59.2	15/1/25	14:10	52.9		15/1/25	18:10	52.9	
15/1/25	10:15	58.1	15/1/25	14:15	53.6		15/1/25	18:15	51.4	
15/1/25	10:20	61.0	15/1/25	14:20	57.2		15/1/25	18:20	51.4	
15/1/25	10:25	56.6	15/1/25	14:25	57.5		15/1/25	18:25	50.9	
15/1/25	10:30	53.9	15/1/25	14:30	52.2		15/1/25	18:30	50.4	
15/1/25	10:35	62.7	15/1/25	14:35	52.4		15/1/25	18:35	51.5	
15/1/25	10:40	57.2	15/1/25	14:40	54.0		15/1/25	18:40	50.7	
15/1/25	10:45	57.5	15/1/25	14:45	54.8		15/1/25	18:45	49.9	
15/1/25	10:50	65.1	15/1/25	14:50	52.7		15/1/25	18:50	50.6	
15/1/25	10:55	57.3	15/1/25	14:55	52.9		15/1/25	18:55	50.9	
15/1/25	11:00	55.5	15/1/25	15:00	51.5		15/1/25	19:00	52.0	

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM2 EIA Gillman Barracks							
REPORT REFERENCE				13/01/2025 - 20/01/2025							
Start	15/1/25	19:05		Leq12h	48.4			Weighting	A		
End	16/1/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
15/1/25	19:05	54.4	53.4	15/1/25	23:05	44.7	45.2	16/1/25	3:05	41.9	42.5
15/1/25	19:10	55.1		15/1/25	23:10	45.1		16/1/25	3:10	42.3	
15/1/25	19:15	54.3		15/1/25	23:15	46.6		16/1/25	3:15	41.8	
15/1/25	19:20	54.1		15/1/25	23:20	46.0		16/1/25	3:20	42.5	
15/1/25	19:25	52.4		15/1/25	23:25	45.1		16/1/25	3:25	41.6	
15/1/25	19:30	52.8		15/1/25	23:30	44.6		16/1/25	3:30	42.6	
15/1/25	19:35	53.8		15/1/25	23:35	44.8		16/1/25	3:35	42.0	
15/1/25	19:40	53.5		15/1/25	23:40	44.8		16/1/25	3:40	43.3	
15/1/25	19:45	51.2		15/1/25	23:45	45.6		16/1/25	3:45	43.1	
15/1/25	19:50	54.9		15/1/25	23:50	44.3		16/1/25	3:50	43.1	
15/1/25	19:55	51.1	50.5	15/1/25	23:55	44.9	43.8	16/1/25	3:55	42.9	43.3
15/1/25	20:00	50.8		15/1/25	0:00	45.7		16/1/25	4:00	42.4	
15/1/25	20:05	51.7		16/1/25	0:05	44.9		16/1/25	4:05	42.8	
15/1/25	20:10	50.8		16/1/25	0:10	45.6		16/1/25	4:10	43.8	
15/1/25	20:15	51.5		16/1/25	0:15	43.9		16/1/25	4:15	42.8	
15/1/25	20:20	50.2		16/1/25	0:20	43.6		16/1/25	4:20	42.7	
15/1/25	20:25	50.4		16/1/25	0:25	44.1		16/1/25	4:25	43.2	
15/1/25	20:30	50.5		16/1/25	0:30	43.9		16/1/25	4:30	42.9	
15/1/25	20:35	51.1		16/1/25	0:35	43.6		16/1/25	4:35	43.5	
15/1/25	20:40	49.3		16/1/25	0:40	43.2		16/1/25	4:40	43.3	
15/1/25	20:45	50.8	49.3	16/1/25	0:45	43.1	42.8	16/1/25	4:45	43.4	43.8
15/1/25	20:50	50.2		16/1/25	0:50	43.2		16/1/25	4:50	43.2	
15/1/25	20:55	49.5		16/1/25	0:55	42.7		16/1/25	4:55	43.9	
15/1/25	21:00	48.9		16/1/25	1:00	43.3		16/1/25	5:00	43.8	
15/1/25	21:05	48.1		16/1/25	1:05	43.1		16/1/25	5:05	43.2	
15/1/25	21:10	48.8		16/1/25	1:10	43.5		16/1/25	5:10	44.1	
15/1/25	21:15	49.6		16/1/25	1:15	42.8		16/1/25	5:15	43.3	
15/1/25	21:20	49.3		16/1/25	1:20	42.9		16/1/25	5:20	43.8	
15/1/25	21:25	49.5		16/1/25	1:25	42.8		16/1/25	5:25	43.3	
15/1/25	21:30	49.6		16/1/25	1:30	42.1		16/1/25	5:30	43.1	
15/1/25	21:35	49.6	47.3	16/1/25	1:35	43.8	42.6	16/1/25	5:35	43.7	52.9
15/1/25	21:40	49.9		16/1/25	1:40	42.6		16/1/25	5:40	43.7	
15/1/25	21:45	50.2		16/1/25	1:45	42.8		16/1/25	5:45	44.3	
15/1/25	21:50	48.3		16/1/25	1:50	42.7		16/1/25	5:50	44.4	
15/1/25	21:55	49.1		16/1/25	1:55	42.1		16/1/25	5:55	44.4	
15/1/25	22:00	49.4		16/1/25	2:00	41.5		16/1/25	6:00	43.7	
15/1/25	22:05	49.0		16/1/25	2:05	42.2		16/1/25	6:05	44.1	
15/1/25	22:10	49.4		16/1/25	2:10	42.5		16/1/25	6:10	44.2	
15/1/25	22:15	48.4		16/1/25	2:15	42.4		16/1/25	6:15	45.4	
15/1/25	22:20	47.2		16/1/25	2:20	44.4		16/1/25	6:20	45.0	
15/1/25	22:25	46.8	47.3	16/1/25	2:25	42.9	42.6	16/1/25	6:25	51.0	
15/1/25	22:30	46.9		16/1/25	2:30	42.5		16/1/25	6:30	62.3	
15/1/25	22:35	46.5		16/1/25	2:35	42.6		16/1/25	6:35	47.2	
15/1/25	22:40	47.1		16/1/25	2:40	42.3		16/1/25	6:40	46.4	
15/1/25	22:45	46.6		16/1/25	2:45	42.4		16/1/25	6:45	48.4	
15/1/25	22:50	46.3		16/1/25	2:50	42.3		16/1/25	6:50	47.6	
15/1/25	22:55	45.9		16/1/25	2:55	41.8		16/1/25	6:55	49.6	
15/1/25	23:00	45.7		16/1/25	3:00	42.2		16/1/25	7:00	47.7	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM2 EIA Gillman Barracks						
REPORT REFERENCE			13/01/2025 - 20/01/2025						
Start	16/1/25	7:05	Leq12h	58.3			Weighting		A
End	16/1/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m		Date	Time	Leq5m
16/1/25	7:05	48.7	16/1/25	11:05	49.2		16/1/25	15:05	60.6
16/1/25	7:10	53.0	16/1/25	11:10	49.2		16/1/25	15:10	61.8
16/1/25	7:15	49.8	16/1/25	11:15	50.0		16/1/25	15:15	65.3
16/1/25	7:20	49.1	16/1/25	11:20	49.6		16/1/25	15:20	55.8
16/1/25	7:25	49.2	16/1/25	11:25	49.6		16/1/25	15:25	54.0
16/1/25	7:30	50.1	16/1/25	11:30	50.6		16/1/25	15:30	53.6
16/1/25	7:35	58.3	16/1/25	11:35	49.3		16/1/25	15:35	55.4
16/1/25	7:40	64.4	16/1/25	11:40	48.1		16/1/25	15:40	55.1
16/1/25	7:45	71.7	16/1/25	11:45	49.8		16/1/25	15:45	51.5
16/1/25	7:50	49.6	16/1/25	11:50	50.2		16/1/25	15:50	51.8
16/1/25	7:55	50.7	16/1/25	11:55	52.2		16/1/25	15:55	52.7
16/1/25	8:00	53.8	16/1/25	12:00	48.9		16/1/25	16:00	55.0
16/1/25	8:05	51.9	16/1/25	12:05	49.6		16/1/25	16:05	62.0
16/1/25	8:10	48.7	16/1/25	12:10	49.3		16/1/25	16:10	51.2
16/1/25	8:15	48.8	16/1/25	12:15	49.3		16/1/25	16:15	51.9
16/1/25	8:20	48.5	16/1/25	12:20	48.4		16/1/25	16:20	59.1
16/1/25	8:25	49.2	16/1/25	12:25	48.4		16/1/25	16:25	52.9
16/1/25	8:30	49.6	16/1/25	12:30	48.2		16/1/25	16:30	73.5
16/1/25	8:35	49.0	16/1/25	12:35	48.6		16/1/25	16:35	55.5
16/1/25	8:40	49.2	16/1/25	12:40	50.4		16/1/25	16:40	72.6
16/1/25	8:45	49.3	16/1/25	12:45	50.0		16/1/25	16:45	67.3
16/1/25	8:50	50.1	16/1/25	12:50	49.6		16/1/25	16:50	51.5
16/1/25	8:55	50.6	16/1/25	12:55	49.2		16/1/25	16:55	49.6
16/1/25	9:00	50.3	16/1/25	13:00	49.1		16/1/25	17:00	53.2
16/1/25	9:05	51.2	16/1/25	13:05	49.9		16/1/25	17:05	54.2
16/1/25	9:10	50.5	16/1/25	13:10	48.5		16/1/25	17:10	52.5
16/1/25	9:15	48.7	16/1/25	13:15	50.1		16/1/25	17:15	54.8
16/1/25	9:20	50.4	16/1/25	13:20	49.3		16/1/25	17:20	51.9
16/1/25	9:25	48.6	16/1/25	13:25	50.7		16/1/25	17:25	54.2
16/1/25	9:30	48.2	16/1/25	13:30	50.7		16/1/25	17:30	55.8
16/1/25	9:35	48.7	16/1/25	13:35	64.1		16/1/25	17:35	51.4
16/1/25	9:40	48.9	16/1/25	13:40	65.0		16/1/25	17:40	52.4
16/1/25	9:45	50.2	16/1/25	13:45	49.4		16/1/25	17:45	50.0
16/1/25	9:50	52.8	16/1/25	13:50	49.2		16/1/25	17:50	50.2
16/1/25	9:55	53.8	16/1/25	13:55	49.3		16/1/25	17:55	48.6
16/1/25	10:00	50.4	16/1/25	14:00	49.9		16/1/25	18:00	55.3
16/1/25	10:05	49.2	16/1/25	14:05	49.2		16/1/25	18:05	56.1
16/1/25	10:10	50.6	16/1/25	14:10	48.5		16/1/25	18:10	49.3
16/1/25	10:15	50.1	16/1/25	14:15	48.9		16/1/25	18:15	49.6
16/1/25	10:20	48.6	16/1/25	14:20	53.8		16/1/25	18:20	51.6
16/1/25	10:25	51.1	16/1/25	14:25	52.3		16/1/25	18:25	49.9
16/1/25	10:30	51.4	16/1/25	14:30	49.3		16/1/25	18:30	50.6
16/1/25	10:35	52.3	16/1/25	14:35	48.2		16/1/25	18:35	52.4
16/1/25	10:40	54.1	16/1/25	14:40	48.4		16/1/25	18:40	50.7
16/1/25	10:45	52.4	16/1/25	14:45	49.9		16/1/25	18:45	53.6
16/1/25	10:50	49.3	16/1/25	14:50	53.4		16/1/25	18:50	51.8
16/1/25	10:55	49.6	16/1/25	14:55	53.7		16/1/25	18:55	49.6
16/1/25	11:00	49.6	16/1/25	15:00	58.8		16/1/25	19:00	48.6

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM2 EIA Gillman Barracks								
REPORT REFERENCE			13/01/2025 - 20/01/2025								
Start	16/1/25		19:05	Leq12h		47.5		Weighting		A	
End	17/1/25		7:00								
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
16/1/25	19:05	48.3	48.3	16/1/25	23:05	47.3	47.1	17/1/25	3:05	45.2	45.6
16/1/25	19:10	50.5		16/1/25	23:10	47.2		17/1/25	3:10	44.6	
16/1/25	19:15	47.9		16/1/25	23:15	46.9		17/1/25	3:15	45.7	
16/1/25	19:20	47.6		16/1/25	23:20	46.2		17/1/25	3:20	44.5	
16/1/25	19:25	48.0		16/1/25	23:25	47.5		17/1/25	3:25	45.8	
16/1/25	19:30	47.9		16/1/25	23:30	46.4		17/1/25	3:30	44.4	
16/1/25	19:35	49.1		16/1/25	23:35	47.5		17/1/25	3:35	46.4	
16/1/25	19:40	48.0		16/1/25	23:40	46.4		17/1/25	3:40	46.1	
16/1/25	19:45	48.2		16/1/25	23:45	48.3		17/1/25	3:45	46.9	
16/1/25	19:50	48.4		16/1/25	23:50	48.1		17/1/25	3:50	43.9	
16/1/25	19:55	47.6	49.6	16/1/25	23:55	47.1	45.2	17/1/25	3:55	45.4	46.6
16/1/25	20:00	46.8		16/1/25	0:00	45.0		17/1/25	4:00	47.1	
16/1/25	20:05	48.9		17/1/25	0:05	45.2		17/1/25	4:05	46.1	
16/1/25	20:10	49.0		17/1/25	0:10	45.5		17/1/25	4:10	47.1	
16/1/25	20:15	48.7		17/1/25	0:15	46.2		17/1/25	4:15	48.5	
16/1/25	20:20	48.0		17/1/25	0:20	45.5		17/1/25	4:20	46.3	
16/1/25	20:25	51.4		17/1/25	0:25	45.6		17/1/25	4:25	47.8	
16/1/25	20:30	52.9		17/1/25	0:30	44.5		17/1/25	4:30	46.5	
16/1/25	20:35	49.8		17/1/25	0:35	45.1		17/1/25	4:35	46.6	
16/1/25	20:40	49.8		17/1/25	0:40	44.4		17/1/25	4:40	47.1	
16/1/25	20:45	49.3	48.3	17/1/25	0:45	46.8	44.5	17/1/25	4:45	45.9	45.5
16/1/25	20:50	48.2		17/1/25	0:50	45.0		17/1/25	4:50	45.5	
16/1/25	20:55	47.8		17/1/25	0:55	44.6		17/1/25	4:55	44.7	
16/1/25	21:00	48.2		17/1/25	1:00	43.4		17/1/25	5:00	46.0	
16/1/25	21:05	49.7		17/1/25	1:05	43.6		17/1/25	5:05	45.5	
16/1/25	21:10	48.1		17/1/25	1:10	43.6		17/1/25	5:10	44.9	
16/1/25	21:15	49.1		17/1/25	1:15	43.7		17/1/25	5:15	44.3	
16/1/25	21:20	48.0		17/1/25	1:20	44.0		17/1/25	5:20	46.0	
16/1/25	21:25	47.8		17/1/25	1:25	44.6		17/1/25	5:25	45.4	
16/1/25	21:30	47.4		17/1/25	1:30	44.4		17/1/25	5:30	44.9	
16/1/25	21:35	47.4	47.2	17/1/25	1:35	43.7	45.4	17/1/25	5:35	45.0	51.3
16/1/25	21:40	47.9		17/1/25	1:40	44.8		17/1/25	5:40	45.5	
16/1/25	21:45	49.6		17/1/25	1:45	46.0		17/1/25	5:45	45.5	
16/1/25	21:50	47.6		17/1/25	1:50	45.5		17/1/25	5:50	47.2	
16/1/25	21:55	48.1		17/1/25	1:55	44.7		17/1/25	5:55	46.0	
16/1/25	22:00	47.4		17/1/25	2:00	44.8		17/1/25	6:00	44.8	
16/1/25	22:05	47.3		17/1/25	2:05	45.3		17/1/25	6:05	45.1	
16/1/25	22:10	47.0		17/1/25	2:10	47.2		17/1/25	6:10	59.4	
16/1/25	22:15	47.2		17/1/25	2:15	45.7		17/1/25	6:15	53.9	
16/1/25	22:20	47.0		17/1/25	2:20	46.7		17/1/25	6:20	46.8	
16/1/25	22:25	47.1	17/1/25	2:25	45.5	17/1/25		6:25	45.8		
16/1/25	22:30	47.4	17/1/25	2:30	44.4	17/1/25		6:30	46.2		
16/1/25	22:35	49.2	17/1/25	2:35	43.7	17/1/25		6:35	48.7		
16/1/25	22:40	47.0	17/1/25	2:40	43.0	17/1/25		6:40	48.0		
16/1/25	22:45	46.0	17/1/25	2:45	47.2	17/1/25		6:45	47.2		
16/1/25	22:50	45.7	17/1/25	2:50	45.2	17/1/25		6:50	47.0		
16/1/25	22:55	46.4	17/1/25	2:55	44.8	17/1/25		6:55	47.0		
16/1/25	23:00	47.7	47.2	17/1/25	3:00	43.5		45.4	17/1/25	7:00	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM2 EIA Gillman Barracks						
REPORT REFERENCE			13/01/2025 - 20/01/2025						
Start	17/1/25	7:05	Leq12h	55.5			Weighting		A
End	17/1/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m		Date	Time	Leq5m
17/1/25	7:05	50.8	17/1/25	11:05	56.6		17/1/25	15:05	61.8
17/1/25	7:10	50.6	17/1/25	11:10	50.8		17/1/25	15:10	57.0
17/1/25	7:15	50.5	17/1/25	11:15	50.6		17/1/25	15:15	54.6
17/1/25	7:20	50.6	17/1/25	11:20	51.7		17/1/25	15:20	53.9
17/1/25	7:25	50.5	17/1/25	11:25	50.7		17/1/25	15:25	53.0
17/1/25	7:30	50.2	17/1/25	11:30	51.0		17/1/25	15:30	52.9
17/1/25	7:35	49.2	17/1/25	11:35	51.5		17/1/25	15:35	55.2
17/1/25	7:40	54.6	17/1/25	11:40	49.6		17/1/25	15:40	52.2
17/1/25	7:45	54.0	17/1/25	11:45	49.7		17/1/25	15:45	50.1
17/1/25	7:50	61.9	17/1/25	11:50	56.4		17/1/25	15:50	51.6
17/1/25	7:55	70.2	17/1/25	11:55	55.8		17/1/25	15:55	49.2
17/1/25	8:00	53.2	17/1/25	12:00	63.4		17/1/25	16:00	55.3
17/1/25	8:05	49.1	17/1/25	12:05	54.4		17/1/25	16:05	50.3
17/1/25	8:10	56.4	17/1/25	12:10	52.1		17/1/25	16:10	59.6
17/1/25	8:15	52.8	17/1/25	12:15	54.2		17/1/25	16:15	61.1
17/1/25	8:20	50.5	17/1/25	12:20	53.9		17/1/25	16:20	59.6
17/1/25	8:25	49.3	17/1/25	12:25	56.4		17/1/25	16:25	56.3
17/1/25	8:30	48.8	17/1/25	12:30	59.3		17/1/25	16:30	53.4
17/1/25	8:35	50.0	17/1/25	12:35	57.9		17/1/25	16:35	53.3
17/1/25	8:40	51.0	17/1/25	12:40	53.9		17/1/25	16:40	51.6
17/1/25	8:45	49.2	17/1/25	12:45	49.8		17/1/25	16:45	50.2
17/1/25	8:50	59.1	17/1/25	12:50	50.1		17/1/25	16:50	49.4
17/1/25	8:55	49.5	17/1/25	12:55	49.8		17/1/25	16:55	49.6
17/1/25	9:00	59.9	17/1/25	13:00	50.0		17/1/25	17:00	49.9
17/1/25	9:05	48.6	17/1/25	13:05	54.4		17/1/25	17:05	52.6
17/1/25	9:10	49.3	17/1/25	13:10	57.2		17/1/25	17:10	51.0
17/1/25	9:15	50.3	17/1/25	13:15	54.9		17/1/25	17:15	53.0
17/1/25	9:20	49.2	17/1/25	13:20	53.5		17/1/25	17:20	51.3
17/1/25	9:25	55.5	17/1/25	13:25	55.0		17/1/25	17:25	49.7
17/1/25	9:30	50.8	17/1/25	13:30	57.3		17/1/25	17:30	48.8
17/1/25	9:35	51.2	17/1/25	13:35	55.2		17/1/25	17:35	49.2
17/1/25	9:40	50.8	17/1/25	13:40	57.3		17/1/25	17:40	48.8
17/1/25	9:45	55.4	17/1/25	13:45	51.7		17/1/25	17:45	48.4
17/1/25	9:50	52.8	17/1/25	13:50	52.1		17/1/25	17:50	48.8
17/1/25	9:55	53.7	17/1/25	13:55	54.0		17/1/25	17:55	51.5
17/1/25	10:00	55.2	17/1/25	14:00	58.1		17/1/25	18:00	49.5
17/1/25	10:05	51.5	17/1/25	14:05	55.3		17/1/25	18:05	48.8
17/1/25	10:10	55.9	17/1/25	14:10	52.0		17/1/25	18:10	48.2
17/1/25	10:15	52.7	17/1/25	14:15	52.7		17/1/25	18:15	48.8
17/1/25	10:20	57.2	17/1/25	14:20	57.4		17/1/25	18:20	51.8
17/1/25	10:25	56.3	17/1/25	14:25	56.5		17/1/25	18:25	50.0
17/1/25	10:30	51.8	17/1/25	14:30	54.3		17/1/25	18:30	49.0
17/1/25	10:35	60.5	17/1/25	14:35	54.0		17/1/25	18:35	49.1
17/1/25	10:40	53.2	17/1/25	14:40	55.4		17/1/25	18:40	47.9
17/1/25	10:45	52.3	17/1/25	14:45	54.2		17/1/25	18:45	48.1
17/1/25	10:50	55.2	17/1/25	14:50	53.8		17/1/25	18:50	48.0
17/1/25	10:55	51.2	17/1/25	14:55	60.4		17/1/25	18:55	48.6
17/1/25	11:00	51.5	17/1/25	15:00	57.5		17/1/25	19:00	49.0

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd									
SITE LOCATION			NM2 EIA Gillman Barracks									
REPORT REFERENCE			13/01/2025 - 20/01/2025									
Start	17/1/25		19:05	Leq12h			46.5		Weighting		A	
End	18/1/25		7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	
17/1/25	19:05	49.9	48.5	17/1/25	23:05	46.5	46.3	18/1/25	3:05	43.4	44.4	
17/1/25	19:10	49.0		17/1/25	23:10	47.1		18/1/25	3:10	43.7		
17/1/25	19:15	48.5		17/1/25	23:15	46.7		18/1/25	3:15	43.1		
17/1/25	19:20	48.3		17/1/25	23:20	46.1		18/1/25	3:20	43.2		
17/1/25	19:25	48.7		17/1/25	23:25	47.0		18/1/25	3:25	43.9		
17/1/25	19:30	48.2		17/1/25	23:30	47.1		18/1/25	3:30	45.6		
17/1/25	19:35	48.5		17/1/25	23:35	46.2		18/1/25	3:35	46.2		
17/1/25	19:40	48.2		17/1/25	23:40	45.4		18/1/25	3:40	44.9		
17/1/25	19:45	47.8		17/1/25	23:45	46.6		18/1/25	3:45	46.2		
17/1/25	19:50	48.0		17/1/25	23:50	45.4		18/1/25	3:50	42.8		
17/1/25	19:55	48.2	48.4	17/1/25	23:55	45.0	45.6	18/1/25	3:55	43.4	44.0	
17/1/25	20:00	48.0		17/1/25	0:00	45.6		18/1/25	4:00	44.7		
17/1/25	20:05	47.8		18/1/25	0:05	46.1		18/1/25	4:05	44.1		
17/1/25	20:10	47.4		18/1/25	0:10	47.9		18/1/25	4:10	43.9		
17/1/25	20:15	47.5		18/1/25	0:15	46.6		18/1/25	4:15	43.7		
17/1/25	20:20	47.2		18/1/25	0:20	46.0		18/1/25	4:20	43.2		
17/1/25	20:25	47.0		18/1/25	0:25	44.7		18/1/25	4:25	43.3		
17/1/25	20:30	47.6		18/1/25	0:30	46.8		18/1/25	4:30	44.6		
17/1/25	20:35	47.6		18/1/25	0:35	45.0		18/1/25	4:35	45.9		
17/1/25	20:40	47.3		18/1/25	0:40	44.8		18/1/25	4:40	44.2		
17/1/25	20:45	50.7	47.6	18/1/25	0:45	44.6	45.7	18/1/25	4:45	44.3	45.1	
17/1/25	20:50	50.9		18/1/25	0:50	43.9		18/1/25	4:50	43.7		
17/1/25	20:55	48.4		18/1/25	0:55	45.3		18/1/25	4:55	42.8		
17/1/25	21:00	48.7		18/1/25	1:00	43.6		18/1/25	5:00	43.1		
17/1/25	21:05	48.1		18/1/25	1:05	43.9		18/1/25	5:05	44.0		
17/1/25	21:10	47.7		18/1/25	1:10	44.0		18/1/25	5:10	45.0		
17/1/25	21:15	48.0		18/1/25	1:15	43.5		18/1/25	5:15	44.0		
17/1/25	21:20	47.8		18/1/25	1:20	44.7		18/1/25	5:20	44.1		
17/1/25	21:25	48.0		18/1/25	1:25	43.9		18/1/25	5:25	45.5		
17/1/25	21:30	47.5		18/1/25	1:30	45.5		18/1/25	5:30	45.7		
17/1/25	21:35	47.1	47.4	18/1/25	1:35	45.7	45.0	18/1/25	5:35	45.0	47.2	
17/1/25	21:40	48.5		18/1/25	1:40	48.9		18/1/25	5:40	44.0		
17/1/25	21:45	47.1		18/1/25	1:45	47.3		18/1/25	5:45	44.5		
17/1/25	21:50	46.8		18/1/25	1:50	47.7		18/1/25	5:50	44.3		
17/1/25	21:55	47.3		18/1/25	1:55	44.9		18/1/25	5:55	46.3		
17/1/25	22:00	47.2		18/1/25	2:00	44.4		18/1/25	6:00	47.1		
17/1/25	22:05	46.6		18/1/25	2:05	45.3		18/1/25	6:05	49.8		
17/1/25	22:10	47.6		18/1/25	2:10	46.4		18/1/25	6:10	50.1		
17/1/25	22:15	47.2		18/1/25	2:15	43.8		18/1/25	6:15	47.6		
17/1/25	22:20	47.2		18/1/25	2:20	44.8		18/1/25	6:20	45.3		
17/1/25	22:25	46.8	47.4	18/1/25	2:25	44.7	45.0	18/1/25	6:25	48.6	47.2	
17/1/25	22:30	48.5		18/1/25	2:30	47.0		18/1/25	6:30	44.7		
17/1/25	22:35	48.6		18/1/25	2:35	43.9		18/1/25	6:35	45.7		
17/1/25	22:40	47.7		18/1/25	2:40	45.3		18/1/25	6:40	44.6		
17/1/25	22:45	47.6		18/1/25	2:45	43.4		18/1/25	6:45	47.5		
17/1/25	22:50	46.9		18/1/25	2:50	43.8		18/1/25	6:50	45.3		
17/1/25	22:55	47.0		18/1/25	2:55	44.2		18/1/25	6:55	45.5		
17/1/25	23:00	46.9		18/1/25	3:00	45.4		18/1/25	7:00	46.6		

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM2 EIA Gillman Barracks						
REPORT REFERENCE			13/01/2025 - 20/01/2025						
Start	18/1/25	7:05	Leq12h	51.8			Weighting		A
End	18/1/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m	
18/1/25	7:05	46.5	18/1/25	11:05	60.7	18/1/25	15:05	49.0	
18/1/25	7:10	47.9	18/1/25	11:10	59.3	18/1/25	15:10	50.7	
18/1/25	7:15	49.6	18/1/25	11:15	53.8	18/1/25	15:15	53.5	
18/1/25	7:20	48.2	18/1/25	11:20	52.5	18/1/25	15:20	52.6	
18/1/25	7:25	48.2	18/1/25	11:25	51.3	18/1/25	15:25	51.5	
18/1/25	7:30	46.2	18/1/25	11:30	50.6	18/1/25	15:30	49.2	
18/1/25	7:35	50.1	18/1/25	11:35	50.3	18/1/25	15:35	51.9	
18/1/25	7:40	46.1	18/1/25	11:40	50.4	18/1/25	15:40	48.6	
18/1/25	7:45	46.3	18/1/25	11:45	49.3	18/1/25	15:45	52.9	
18/1/25	7:50	46.2	18/1/25	11:50	48.7	18/1/25	15:50	50.6	
18/1/25	7:55	47.3	18/1/25	11:55	48.9	18/1/25	15:55	49.3	
18/1/25	8:00	51.5	18/1/25	12:00	50.3	18/1/25	16:00	48.2	
18/1/25	8:05	47.4	18/1/25	12:05	52.5	18/1/25	16:05	47.1	
18/1/25	8:10	61.0	18/1/25	12:10	53.3	18/1/25	16:10	48.6	
18/1/25	8:15	62.4	18/1/25	12:15	49.8	18/1/25	16:15	48.9	
18/1/25	8:20	51.2	18/1/25	12:20	48.8	18/1/25	16:20	52.9	
18/1/25	8:25	48.0	18/1/25	12:25	51.4	18/1/25	16:25	55.0	
18/1/25	8:30	47.4	18/1/25	12:30	51.7	18/1/25	16:30	52.2	
18/1/25	8:35	47.1	18/1/25	12:35	49.0	18/1/25	16:35	51.2	
18/1/25	8:40	48.3	18/1/25	12:40	51.6	18/1/25	16:40	51.4	
18/1/25	8:45	47.0	18/1/25	12:45	49.8	18/1/25	16:45	52.0	
18/1/25	8:50	48.2	18/1/25	12:50	49.0	18/1/25	16:50	50.4	
18/1/25	8:55	47.0	18/1/25	12:55	47.7	18/1/25	16:55	52.3	
18/1/25	9:00	47.5	18/1/25	13:00	52.2	18/1/25	17:00	49.6	
18/1/25	9:05	47.1	18/1/25	13:05	59.1	18/1/25	17:05	48.6	
18/1/25	9:10	47.7	18/1/25	13:10	53.3	18/1/25	17:10	50.2	
18/1/25	9:15	47.7	18/1/25	13:15	51.0	18/1/25	17:15	48.0	
18/1/25	9:20	48.5	18/1/25	13:20	49.5	18/1/25	17:20	47.6	
18/1/25	9:25	48.9	18/1/25	13:25	49.3	18/1/25	17:25	47.6	
18/1/25	9:30	49.4	18/1/25	13:30	51.3	18/1/25	17:30	47.1	
18/1/25	9:35	49.1	18/1/25	13:35	49.9	18/1/25	17:35	47.3	
18/1/25	9:40	48.8	18/1/25	13:40	49.8	18/1/25	17:40	46.8	
18/1/25	9:45	49.0	18/1/25	13:45	51.6	18/1/25	17:45	47.4	
18/1/25	9:50	50.2	18/1/25	13:50	52.1	18/1/25	17:50	49.0	
18/1/25	9:55	48.4	18/1/25	13:55	50.8	18/1/25	17:55	49.1	
18/1/25	10:00	48.0	18/1/25	14:00	48.3	18/1/25	18:00	50.8	
18/1/25	10:05	48.1	18/1/25	14:05	48.4	18/1/25	18:05	50.2	
18/1/25	10:10	47.6	18/1/25	14:10	48.8	18/1/25	18:10	47.3	
18/1/25	10:15	50.5	18/1/25	14:15	52.8	18/1/25	18:15	47.6	
18/1/25	10:20	59.3	18/1/25	14:20	48.2	18/1/25	18:20	47.6	
18/1/25	10:25	54.3	18/1/25	14:25	48.0	18/1/25	18:25	49.1	
18/1/25	10:30	49.2	18/1/25	14:30	61.3	18/1/25	18:30	47.9	
18/1/25	10:35	48.6	18/1/25	14:35	53.4	18/1/25	18:35	48.4	
18/1/25	10:40	48.0	18/1/25	14:40	52.0	18/1/25	18:40	49.2	
18/1/25	10:45	48.4	18/1/25	14:45	48.7	18/1/25	18:45	48.5	
18/1/25	10:50	48.7	18/1/25	14:50	48.7	18/1/25	18:50	47.5	
18/1/25	10:55	52.0	18/1/25	14:55	48.5	18/1/25	18:55	48.0	
18/1/25	11:00	54.5	18/1/25	15:00	48.8	18/1/25	19:00	50.5	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd										
SITE LOCATION			NM2 EIA Gillman Barracks										
REPORT REFERENCE			13/01/2025 - 20/01/2025										
Start	18/1/25		19:05	Leq12h		49.9		Weighting			A		
End	19/1/25		7:00										
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h		
18/1/25	19:05	50.3	48.6	18/1/25	23:05	45.7	46.5	19/1/25	3:05	45.8	58.1		
18/1/25	19:10	51.6		18/1/25	23:10	45.6		19/1/25	3:10	48.5			
18/1/25	19:15	51.5		18/1/25	23:15	46.3		19/1/25	3:15	48.4			
18/1/25	19:20	47.7		18/1/25	23:20	45.0		19/1/25	3:20	56.2			
18/1/25	19:25	46.7		18/1/25	23:25	45.1		19/1/25	3:25	67.0			
18/1/25	19:30	47.4		18/1/25	23:30	45.5		19/1/25	3:30	61.0			
18/1/25	19:35	46.7		18/1/25	23:35	48.0		19/1/25	3:35	56.4			
18/1/25	19:40	47.1		18/1/25	23:40	47.0		19/1/25	3:40	52.5			
18/1/25	19:45	47.5		18/1/25	23:45	47.5		19/1/25	3:45	50.7			
18/1/25	19:50	47.7		18/1/25	23:50	47.3		19/1/25	3:50	48.6			
18/1/25	19:55	46.8	46.8	18/1/25	23:55	47.1	45.2	19/1/25	3:55	47.8	46.0		
18/1/25	20:00	47.2		18/1/25	0:00	46.2		19/1/25	4:00	46.7			
18/1/25	20:05	47.0		19/1/25	0:05	45.5		19/1/25	4:05	46.7			
18/1/25	20:10	46.6		19/1/25	0:10	46.2		19/1/25	4:10	48.6			
18/1/25	20:15	47.1		19/1/25	0:15	47.4		19/1/25	4:15	45.4			
18/1/25	20:20	46.8		19/1/25	0:20	44.5		19/1/25	4:20	45.2			
18/1/25	20:25	46.8		19/1/25	0:25	45.1		19/1/25	4:25	45.7			
18/1/25	20:30	47.0		19/1/25	0:30	45.0		19/1/25	4:30	46.8			
18/1/25	20:35	46.4		19/1/25	0:35	44.9		19/1/25	4:35	45.0			
18/1/25	20:40	46.8		19/1/25	0:40	44.1		19/1/25	4:40	44.8			
18/1/25	20:45	47.4	46.3	19/1/25	0:45	45.8	46.0	19/1/25	4:45	44.5	48.6		
18/1/25	20:50	45.7		19/1/25	0:50	43.6		19/1/25	4:50	44.7			
18/1/25	20:55	47.0		19/1/25	0:55	44.1		19/1/25	4:55	45.2			
18/1/25	21:00	47.0		19/1/25	1:00	44.4		19/1/25	5:00	47.1			
18/1/25	21:05	47.0		19/1/25	1:05	44.0		19/1/25	5:05	48.6			
18/1/25	21:10	47.0		19/1/25	1:10	51.5		19/1/25	5:10	46.9			
18/1/25	21:15	46.9		19/1/25	1:15	45.1		19/1/25	5:15	50.3			
18/1/25	21:20	46.6		19/1/25	1:20	45.0		19/1/25	5:20	52.2			
18/1/25	21:25	46.2		19/1/25	1:25	44.8		19/1/25	5:25	49.2			
18/1/25	21:30	46.1		19/1/25	1:30	44.1		19/1/25	5:30	47.4			
18/1/25	21:35	46.8	46.3	19/1/25	1:35	43.4	44.1	19/1/25	5:35	51.2	47.9		
18/1/25	21:40	46.0		19/1/25	1:40	44.6		19/1/25	5:40	47.8			
18/1/25	21:45	45.3		19/1/25	1:45	46.8		19/1/25	5:45	45.8			
18/1/25	21:50	45.5		19/1/25	1:50	45.0		19/1/25	5:50	45.4			
18/1/25	21:55	46.3		19/1/25	1:55	45.0		19/1/25	5:55	45.6			
18/1/25	22:00	45.4		19/1/25	2:00	44.6		19/1/25	6:00	45.3			
18/1/25	22:05	46.2		19/1/25	2:05	43.3		19/1/25	6:05	46.5			
18/1/25	22:10	45.8		19/1/25	2:10	43.8		19/1/25	6:10	45.3			
18/1/25	22:15	47.5		19/1/25	2:15	44.0		19/1/25	6:15	46.0			
18/1/25	22:20	47.1		19/1/25	2:20	44.6		19/1/25	6:20	45.3			
18/1/25	22:25	45.8	46.3	19/1/25	2:25	46.6	44.1	19/1/25	6:25	46.3			
18/1/25	22:30	46.4		19/1/25	2:30	45.0		19/1/25	6:30	45.9			
18/1/25	22:35	46.6		19/1/25	2:35	43.8		19/1/25	6:35	45.6			
18/1/25	22:40	46.7		19/1/25	2:40	43.7		19/1/25	6:40	45.3			
18/1/25	22:45	45.8		19/1/25	2:45	43.7		19/1/25	6:45	45.7			
18/1/25	22:50	45.5		19/1/25	2:50	42.7		19/1/25	6:50	54.0			
18/1/25	22:55	45.9		19/1/25	2:55	42.5		19/1/25	6:55	49.8			
18/1/25	23:00	46.3		19/1/25	3:00	43.8		19/1/25	7:00	47.6			

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM2 EIA Gillman Barracks						
REPORT REFERENCE			13/01/2025 - 20/01/2025						
Start	19/1/25	7:05	Leq12h		56.8	Weighting		A	
End	19/1/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m	
19/1/25	7:05	48.0	19/1/25	11:05	47.5	19/1/25	15:05	58.9	
19/1/25	7:10	51.2	19/1/25	11:10	47.5	19/1/25	15:10	59.4	
19/1/25	7:15	54.2	19/1/25	11:15	48.6	19/1/25	15:15	57.5	
19/1/25	7:20	50.5	19/1/25	11:20	58.8	19/1/25	15:20	52.2	
19/1/25	7:25	47.8	19/1/25	11:25	59.4	19/1/25	15:25	51.1	
19/1/25	7:30	49.9	19/1/25	11:30	62.3	19/1/25	15:30	50.0	
19/1/25	7:35	49.6	19/1/25	11:35	54.3	19/1/25	15:35	49.6	
19/1/25	7:40	47.6	19/1/25	11:40	51.7	19/1/25	15:40	48.2	
19/1/25	7:45	46.9	19/1/25	11:45	57.5	19/1/25	15:45	48.4	
19/1/25	7:50	56.2	19/1/25	11:50	55.8	19/1/25	15:50	47.9	
19/1/25	7:55	52.5	19/1/25	11:55	51.6	19/1/25	15:55	48.3	
19/1/25	8:00	50.6	19/1/25	12:00	50.1	19/1/25	16:00	49.3	
19/1/25	8:05	48.4	19/1/25	12:05	49.1	19/1/25	16:05	50.3	
19/1/25	8:10	48.6	19/1/25	12:10	48.7	19/1/25	16:10	48.5	
19/1/25	8:15	52.1	19/1/25	12:15	49.2	19/1/25	16:15	48.6	
19/1/25	8:20	56.6	19/1/25	12:20	48.1	19/1/25	16:20	54.5	
19/1/25	8:25	53.5	19/1/25	12:25	47.7	19/1/25	16:25	64.4	
19/1/25	8:30	51.5	19/1/25	12:30	47.1	19/1/25	16:30	61.9	
19/1/25	8:35	49.8	19/1/25	12:35	47.6	19/1/25	16:35	53.2	
19/1/25	8:40	49.9	19/1/25	12:40	48.1	19/1/25	16:40	50.0	
19/1/25	8:45	48.3	19/1/25	12:45	48.0	19/1/25	16:45	53.1	
19/1/25	8:50	48.2	19/1/25	12:50	55.1	19/1/25	16:50	54.9	
19/1/25	8:55	48.7	19/1/25	12:55	68.8	19/1/25	16:55	50.2	
19/1/25	9:00	50.2	19/1/25	13:00	72.6	19/1/25	17:00	48.4	
19/1/25	9:05	58.1	19/1/25	13:05	69.2	19/1/25	17:05	47.7	
19/1/25	9:10	50.9	19/1/25	13:10	61.5	19/1/25	17:10	47.2	
19/1/25	9:15	49.9	19/1/25	13:15	53.8	19/1/25	17:15	47.5	
19/1/25	9:20	51.3	19/1/25	13:20	50.0	19/1/25	17:20	47.4	
19/1/25	9:25	51.2	19/1/25	13:25	50.3	19/1/25	17:25	47.7	
19/1/25	9:30	49.4	19/1/25	13:30	49.7	19/1/25	17:30	48.3	
19/1/25	9:35	50.0	19/1/25	13:35	49.4	19/1/25	17:35	48.7	
19/1/25	9:40	48.5	19/1/25	13:40	51.0	19/1/25	17:40	46.6	
19/1/25	9:45	50.6	19/1/25	13:45	57.1	19/1/25	17:45	53.5	
19/1/25	9:50	51.0	19/1/25	13:50	50.9	19/1/25	17:50	48.4	
19/1/25	9:55	53.9	19/1/25	13:55	48.7	19/1/25	17:55	48.3	
19/1/25	10:00	54.4	19/1/25	14:00	48.1	19/1/25	18:00	46.3	
19/1/25	10:05	52.1	19/1/25	14:05	55.1	19/1/25	18:05	47.1	
19/1/25	10:10	49.3	19/1/25	14:10	52.5	19/1/25	18:10	47.0	
19/1/25	10:15	48.0	19/1/25	14:15	51.4	19/1/25	18:15	47.4	
19/1/25	10:20	47.6	19/1/25	14:20	49.1	19/1/25	18:20	47.7	
19/1/25	10:25	51.7	19/1/25	14:25	47.6	19/1/25	18:25	47.2	
19/1/25	10:30	49.8	19/1/25	14:30	47.9	19/1/25	18:30	46.8	
19/1/25	10:35	47.3	19/1/25	14:35	48.3	19/1/25	18:35	47.1	
19/1/25	10:40	47.7	19/1/25	14:40	47.2	19/1/25	18:40	47.7	
19/1/25	10:45	48.3	19/1/25	14:45	47.4	19/1/25	18:45	46.8	
19/1/25	10:50	48.7	19/1/25	14:50	53.2	19/1/25	18:50	47.6	
19/1/25	10:55	48.6	19/1/25	14:55	68.7	19/1/25	18:55	46.8	
19/1/25	11:00	48.8	19/1/25	15:00	58.8	19/1/25	19:00	47.1	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd									
SITE LOCATION			NM2 EIA Gillman Barracks									
REPORT REFERENCE			13/01/2025 - 20/01/2025									
Start	19/1/25	19:05		Leq12h	45.6				Weighting		A	
End	20/1/25	7:00										
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	
19/1/25	19:05	48.1	47.2	19/1/25	23:05	44.1	44.3	20/1/25	3:05	43.7	44.0	
19/1/25	19:10	47.5		19/1/25	23:10	45.5		20/1/25	3:10	43.0		
19/1/25	19:15	46.3		19/1/25	23:15	44.3		20/1/25	3:15	45.1		
19/1/25	19:20	48.6		19/1/25	23:20	43.5		20/1/25	3:20	44.6		
19/1/25	19:25	47.5		19/1/25	23:25	46.4		20/1/25	3:25	46.6		
19/1/25	19:30	46.5		19/1/25	23:30	43.8		20/1/25	3:30	46.4		
19/1/25	19:35	46.5		19/1/25	23:35	43.8		20/1/25	3:35	42.8		
19/1/25	19:40	46.2		19/1/25	23:40	44.0		20/1/25	3:40	42.4		
19/1/25	19:45	46.9		19/1/25	23:45	43.7		20/1/25	3:45	41.9		
19/1/25	19:50	46.9		19/1/25	23:50	43.9		20/1/25	3:50	42.2		
19/1/25	19:55	47.5	46.2	19/1/25	23:55	44.2	43.4	20/1/25	3:55	43.6	43.0	
19/1/25	20:00	47.3		19/1/25	0:00	43.7		20/1/25	4:00	42.2		
19/1/25	20:05	46.4		20/1/25	0:05	43.1		20/1/25	4:05	43.2		
19/1/25	20:10	46.2		20/1/25	0:10	44.9		20/1/25	4:10	42.5		
19/1/25	20:15	46.0		20/1/25	0:15	44.1		20/1/25	4:15	42.3		
19/1/25	20:20	46.0		20/1/25	0:20	43.5		20/1/25	4:20	43.3		
19/1/25	20:25	46.2		20/1/25	0:25	42.7		20/1/25	4:25	43.0		
19/1/25	20:30	46.5		20/1/25	0:30	42.9		20/1/25	4:30	43.8		
19/1/25	20:35	46.3		20/1/25	0:35	42.2		20/1/25	4:35	42.6		
19/1/25	20:40	46.2		20/1/25	0:40	43.9		20/1/25	4:40	43.0		
19/1/25	20:45	46.3	45.7	20/1/25	0:45	43.7	42.9	20/1/25	4:45	43.2	44.2	
19/1/25	20:50	46.4		20/1/25	0:50	43.8		20/1/25	4:50	43.1		
19/1/25	20:55	46.5		20/1/25	0:55	42.5		20/1/25	4:55	42.7		
19/1/25	21:00	45.5		20/1/25	1:00	42.4		20/1/25	5:00	43.4		
19/1/25	21:05	46.5		20/1/25	1:05	42.3		20/1/25	5:05	43.3		
19/1/25	21:10	45.3		20/1/25	1:10	43.3		20/1/25	5:10	44.1		
19/1/25	21:15	45.8		20/1/25	1:15	43.0		20/1/25	5:15	43.7		
19/1/25	21:20	45.9		20/1/25	1:20	42.8		20/1/25	5:20	43.5		
19/1/25	21:25	45.4		20/1/25	1:25	43.3		20/1/25	5:25	43.8		
19/1/25	21:30	45.3		20/1/25	1:30	43.2		20/1/25	5:30	43.3		
19/1/25	21:35	45.3	45.5	20/1/25	1:35	43.2	43.6	20/1/25	5:35	44.0	50.1	
19/1/25	21:40	45.4		20/1/25	1:40	43.3		20/1/25	5:40	46.2		
19/1/25	21:45	45.4		20/1/25	1:45	42.6		20/1/25	5:45	45.2		
19/1/25	21:50	45.4		20/1/25	1:50	42.4		20/1/25	5:50	44.4		
19/1/25	21:55	46.3		20/1/25	1:55	42.6		20/1/25	5:55	44.2		
19/1/25	22:00	46.1		20/1/25	2:00	42.2		20/1/25	6:00	44.2		
19/1/25	22:05	45.4		20/1/25	2:05	42.7		20/1/25	6:05	44.2		
19/1/25	22:10	45.4		20/1/25	2:10	43.1		20/1/25	6:10	44.6		
19/1/25	22:15	45.9		20/1/25	2:15	43.0		20/1/25	6:15	45.5		
19/1/25	22:20	45.7		20/1/25	2:20	42.7		20/1/25	6:20	46.1		
19/1/25	22:25	45.0	20/1/25	2:25	42.4	20/1/25	6:25	57.2				
19/1/25	22:30	45.1	20/1/25	2:30	42.2	20/1/25	6:30	45.3				
19/1/25	22:35	45.7	20/1/25	2:35	42.4	20/1/25	6:35	46.7				
19/1/25	22:40	44.8	20/1/25	2:40	41.9	20/1/25	6:40	50.5				
19/1/25	22:45	43.6	20/1/25	2:45	46.4	20/1/25	6:45	52.0				
19/1/25	22:50	44.8	20/1/25	2:50	46.4	20/1/25	6:50	50.0				
19/1/25	22:55	44.9	20/1/25	2:55	42.4	20/1/25	6:55	46.5				
19/1/25	23:00	47.9	20/1/25	3:00	43.9	20/1/25	7:00	48.6				

CONFIDENTIAL

BASELINE NOISE SURVEY REPORT
NOISE MONITORING ENVIRONMENTAL WORK

REPORT REFERENCE NO: - 25022508/nms/ch2m/NM2GB/NM3

For

CH2M HILL SINGAPORE PTE LTD
150 Beach Road, Gateway West 34th Floor, Singapore 189720

Project Location:
NM3 EIA Gillman Barracks

Attention:
Ms Alicia Wong

Project Title.:
Baseline Noise Survey @ NM3 EIA Gillman Barracks

Monitoring Location:
NM3 (RoofTop of 112C Depot Road)

Date of Monitoring:
11 February 2025 - 18 February 2025

Date of Report:
25 February 2025

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	TABLE OF CONTENT	PAGE
1.0	INTRODUCTION	3
2.0	NOISE SURVEY CONDITION	3
3.0	INSTRUMENTS	4
4.0	NOISE SURVEY TERMS	5
5.0	SURVEYING LOCATIONS	6
6.0	NOISE SURVEY RESULTS	7
7.0	SUMMARY	12
8.0	CONFIRMATION	12
	APPENDIX	
	APPENDIX A: INSTRUMENT LAYOUT PLAN	13
	APPENDIX B: NEA CONSTRUCTION NOISE CONTROL GUIDELINE	14
	APPENDIX C: NOISE MONITORING OFFICER CERTIFICATES	15
	APPENDIX D: INSTRUMENT CALIBRATION CERTIFICATES	17
	APPENDIX E: NOISE DATA	19

1.0 INTRODUCTION

ENSSCOM PTE LTD was commissioned by:

CH2M HILL Singapore Pte Ltd
150 Beach Road, Gateway West 34th Floor, Singapore 189720

The purpose of this survey was to assess the current acoustical environment to establish the baseline background noise level generated before start of construction activities for
Project Title - Baseline Noise Survey @ NM3 EIA Gillman Barracks

The survey is conducted in accordance to the Construction Noise control Guideline on NEA's permissible noise levels for construction sites and industrial premises.

2.0 NOISE SURVEY CONDITION

Report Reference No: 25022508/nms/ch2m/NM2GB/NM3

Date of Report: 25-Feb-2025

Survey On: 11-Feb-2025 (0700hrs) to 18-Feb-2025 (0700hrs)

Operating Condition of Site: All operations were under normal conditions during the noise survey. Construction activities have not begun during period of noise monitoring.

Noise survey was conducted using accepted standard procedures and appropriate sound measuring equipment, which is properly calibrated to ensure accuracy.

All noise measurements were made in terms of A-weighted equivalent continuous sound pressure level in LAeq,T over a period of time T. For example, LAeq,5min are the equivalent sound pressure level measured over a 5-minutes time.

Noise survey was conducted for a full continuous twenty-four (24) hours, Seven (7) days, for **One (1) monitoring points/location**. The noise levels emitted were monitored accordingly and recorded.

The survey is conducted by qualified noise monitoring personnel and reference to Appendix C for their certificate.

3.0 INSTRUMENTS

Monitoring instrument was positioned at between 1.5 meters to 3 meters in height from the floor (Ground Level), Mid Level (5 – 6 storey building height) Or High Level (Roof Level). Overall noise distribution was fairly homogenous throughout the duration of noise survey.

Sound Level Meter used complies and conform to the minimum requirements of a Type 1/Class 1 instrument specified in the International Electrotechnical Commission (IEC) publications of 60651 and 60804.

Before and after the noise measurements, the sound level meter is calibrated to verify the accuracy of the instrument.

3.1 Sound Level Meters

CIRRUS RESEARCH plc, Model: CR191SG
Class 1 Data Logging Sound Level Meter
Serial Number: **G302699**

3.2 Acoustic Calibrator

CIRRUS RESEARCH plc, Model: CR515
Acoustic Calibrator
Serial Number: **60614**

Acoustic Pressure level:	94.01 dB	(reference 20uPa)
Step +20dB:	113.93 dB	
Nominal Frequency:	992 Hz	

The calibration certificate of the monitoring instrument can be found in Appendix D

4.0 NOISE SURVEY TERMS

- 4.1 A Weighting
A standard weighting of the audible frequencies designed to reflect the response of the human ear to noise.
- 4.2 Acoustic Calibrator
An instrument that provides a reference noise source that is used to calibrate and check the performance of a Sound Level Meter.
- 4.3 Broadband
Noise Measurements using parameters, which include all the audible noise
- 4.4 dB(A)
Decibels A Weighted
- 4.5 Decibel (dB)
The units of sound level and noise exposure measurement
- 4.6 Fast Time Weighting
A standard time weighting applied by the Sound Level Meter
- 4.7 IEC 60651:1979
The International Standard for Sound Level Meters
- 4.8 IEC 60804:1984
The International Standard for Integrating & Integrating-Averaging Sound Level Meters
- 4.9 IEC 61260:1995
The International Standard for 1:1 Octave & 1:3 Octave Band Filters
- 4.10 IEC 61672-1:2003
The International Standard for Sound Level Meter and Integrating Averaging Sound Level Meters that replaces both IEC 60651 and IEC 60804
- 4.11 Integrating Averaging Sound Level Meter
A Sound Level Meter which accumulates the total sound energy over a measurement period and calculates an average
- 4.12 LAeq,t
Equivalent continuous sound pressure level. A measure of the average sound pressure level during a period of time, t, in dB with 'A' weighting.
- 4.13 Sound Level
Sound Pressure Level with a Frequency weighting, such as dB(A)
- 4.14 Sound Level Meter
An instrument for measuring various noise parameters
- 4.15 Sound Pressure Level, SPL.
The basic measure of noise loudness, expressed in decibels

5.0 SURVEYING LOCATIONS

To carry out One (1) monitoring points/locations for continuous twenty-four (24) hours, Seven (7) days noise monitoring at the boundary of proposed construction site. (Refer to Appendix A for instrument layout plan)

Possible noise contribution source and occurrence:

NOISE MONITORING LOCATION	NOISE SOURCE	OCCURRENCE
Point 3: Rooftop of Blk 112C Depot Road 	Vehicle Traffic	Medium - Along Depot Road

Note: The above-mentioned noise sources may be limited and there are possible other noise sources not detected during the time of our site survey. For example, possible noise sources can be from occasional aircraft noise, or other activities nearby to the monitoring points.

6.0 NOISE SURVEY RESULTS

The noise survey was carried out in accordance with the Environmental Pollution Control Act (Chapter 94A, Section 77(1)), Environmental Pollution Control (Control of Noise at Construction Sites) Regulations, 1999.

Monday to Saturday

Types of Affected Building	Maximum Noise Level Permitted for construction sites (reckoned as an equivalent continuous noise level over a period of 5 minutes) in decibel (A)		
	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospitals, Schools, Institutions of Higher Learning, Homes for aged, Sick, etc	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	60 (LEQ 12hr)	50 (LEQ 12hr)	
(b) Residential Buildings Located less than 150m from the construction site where noise is being emitted	90 (Leq 5min)	70 (Leq 5min)	55 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 1hr)	55 (LEQ 1hr)
(c) Buildings (other than those in Paragraphs (a) and (b) above	90 (Leq 5min)	70 (Leq 5min)	70 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 12hr)	

Sunday and Public Holidays

Types of Affected Building	Maximum Noise Level Permitted for construction sites (reckoned as an equivalent continuous noise level over a period of 5 minutes) in decibel (A)		
	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospitals, Schools, Institutions of Higher Learning, Homes for aged, Sick, etc	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	60 (LEQ 12hr)	50 (LEQ 12hr)	
(b) Residential Buildings Located less than 150m from the construction site where noise is being emitted	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	75 (LEQ 12hr)	-	-
(c) Buildings (other than those in Paragraphs (a) and (b) above	90 (Leq 5min)	70 (Leq 5min)	70 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 12hr)	

Note:

No Work Rule on Sundays and Public Holidays

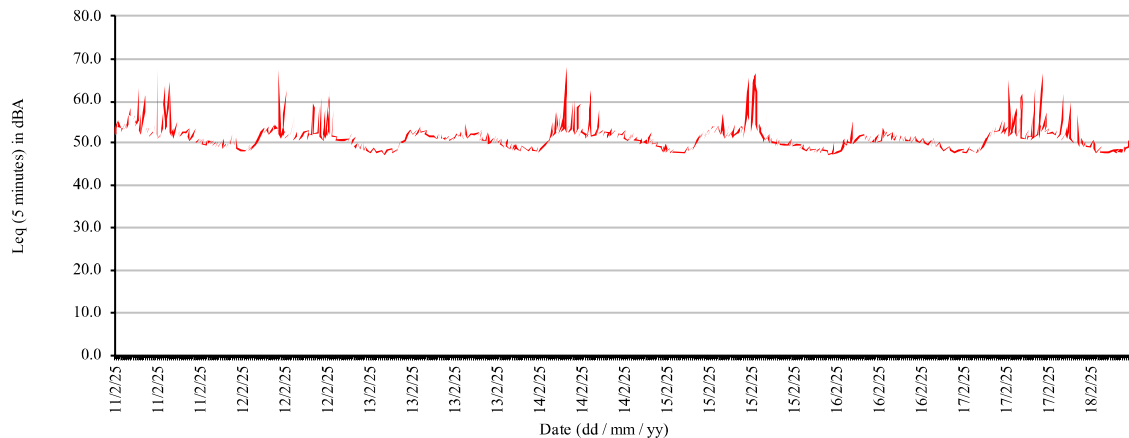
In addition to the settings of the permissible noise limits, NEA has also implemented a rule on prohibition of work on Sundays and Public Holidays (PH) for construction sites located within 150m away from residential premises and noise sensitive premises as follows:

Site Established from 1 September 2011. No work is allowed from 10.00pm on Sat/eve of PH to 7.00am on the following Mon/day after the PH. (For details, please refer to Appendix B)

Survey Results for monitoring point 1 from period : 11-Feb-2025 to 18-Feb-2025

Location : NM3 (RoofTop of 112C Depot Road)

Leq (5 Minutes) Plotted Against Date of Monitoring



Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 5 min in Leq db(A)	Maximum Noise Level permitted for construction sites Leq 5min db (A)
No. NM-3		From		To			
NM3 (RoofTop of 112C Depot Road)	Tue	11/2/25	0700	11/2/25	1900	67.2	90
	Tue	11/2/25	1900	11/2/25	2200	53.6	70
	Tue/Wed	11/2/25	2200	12/2/25	0700	52.0	55
	Wed	12/2/25	0700	12/2/25	1900	67.5	90
	Wed	12/2/25	1900	12/2/25	2200	52.3	70
	Wed/Thu	12/2/25	2200	13/2/25	0700	52.3	55
	Thu	13/2/25	0700	13/2/25	1900	54.3	90
	Thu	13/2/25	1900	13/2/25	2200	53.0	70
	Thu/Fri	13/2/25	2200	14/2/25	0700	51.4	55
	Fri	14/2/25	0700	14/2/25	1900	68.0	90
	Fri	14/2/25	1900	14/2/25	2200	52.9	70
	Fri/Sat	14/2/25	2200	15/2/25	0700	52.4	55
	Sat	15/2/25	0700	15/2/25	1900	66.4	90
	Sat	15/2/25	1900	15/2/25	2200	51.1	70
	Sat/Sun	15/2/25	2200	16/2/25	0700	51.2	55
	Sun	16/2/25	0700	16/2/25	1900	54.9	75
	Sun	16/2/25	1900	16/2/25	2200	51.5	55
	Sun/Mon	16/2/25	2200	17/2/25	0700	51.2	55
	Mon	17/2/25	0700	17/2/25	1900	66.6	90
	Mon	17/2/25	1900	17/2/25	2200	61.6	70
Mon/Tue	17/2/25	2200	18/2/25	0700	52.6	55	

Table 6.1 Summary of Noise Monitoring Results at Maximum Equivalent of LEQ 5 min

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 1 hr in Leq db(A) for the specific period	Maximum Noise Level permitted for construction sites Leq 1 hr db (A)
No. NM-3		From		To			
NM3 (RoofTop of 112C Depot Road)	Tue	11/2/25	1900	11/2/25	2200	51.4	65
	Tue	11/2/25	2200	12/2/25	0700	50.7	55
	Wed	12/2/25	1900	12/2/25	2200	51.1	65
	Wed	12/2/25	2200	13/2/25	0700	50.2	55
	Thu	13/2/25	1900	13/2/25	2200	51.6	65
	Thu	13/2/25	2200	14/2/25	0700	50.4	55
	Fri	14/2/25	1900	14/2/25	2200	51.3	65
	Fri	14/2/25	2200	15/2/25	0700	50.5	55
	Sat	15/2/25	1900	15/2/25	2200	50.3	65
	Sat	15/2/25	2200	16/2/25	0700	49.9	55
	Sun	16/2/25	1900	16/2/25	2200	50.4	-
	Sun	16/2/25	2200	17/2/25	0700	50.0	-
	Mon	17/2/25	1900	17/2/25	2200	54.7	65
	Mon	17/2/25	2200	18/2/25	0700	50.9	55

Table 6.2 Summary of Noise Monitoring Results at Maximum Equivalent of LEQ 1 hr

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 12 hr in Leq db(A)	Maximum Noise Level permitted for construction sites Leq 12 hr db (A)
No. NM-3		From		To			
NM3 (RoofTop of 112C Depot Road)	Tue	11/2/25	0700	11/2/25	1900	55.4	75
	Tue	11/2/25	1900	12/2/25	0700	50.0	-
	Wed	12/2/25	0700	12/2/25	1900	54.3	75
	Wed	12/2/25	1900	13/2/25	0700	49.5	-
	Thu	13/2/25	0700	13/2/25	1900	52.0	75
	Thu	13/2/25	1900	14/2/25	0700	49.8	-
	Fri	14/2/25	0700	14/2/25	1900	54.7	75
	Fri	14/2/25	1900	15/2/25	0700	49.6	-
	Sat	15/2/25	0700	15/2/25	1900	55.8	75
	Sat	15/2/25	1900	16/2/25	0700	49.1	-
	Sun	16/2/25	0700	16/2/25	1900	51.2	75
	Sun	16/2/25	1900	16/2/25	0700	49.1	-
	Mon	16/2/25	0700	17/2/25	1900	54.8	75
	Mon	17/2/25	1900	18/2/25	0700	50.6	-

Table 6.3 Summary of Noise Monitoring Results at LEQ 12 hr

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over specific period in Leq db(A)	Maximum Noise Level permitted for construction sites in db (A)
No. NM-3		From		To			
NM3 (Roof top of 112C Depot Road)	Tue	11/2/25	700	11/2/25	1900	55.4	90 (Leq5min) 75 (Leq12hrs)
	Tue	11/2/25	1900	11/2/25	2200	50.9	70 (Leq5min) 65 (Leq 1hr)
	Tue	11/2/25	2200	12/2/25	0000	49.9	55 (Leq5min) 55 (Leq 1hr)
	Wed	12/2/25	0000	12/2/25	700	49.5	55 (Leq5min) 55 (Leq 1hr)
	Wed	12/2/25	700	12/2/25	1900	54.3	90 (Leq5min) 75 (Leq12hrs)
	Wed	12/2/25	1900	12/2/25	2200	50.8	70 (Leq5min) 65 (Leq 1hr)
	Wed	12/2/25	2200	13/2/25	0000	49.8	55 (Leq5min) 55 (Leq 1hr)
	Thu	13/2/25	0000	13/2/25	700	48.6	55 (Leq5min) 55 (Leq 1hr)
	Thu	13/2/25	700	13/2/25	1900	52.0	90 (Leq5min) 75 (Leq12hrs)
	Thu	13/2/25	1900	13/2/25	2200	51.1	70 (Leq5min) 65 (Leq 1hr)
	Thu	13/2/25	2200	14/2/25	0000	50.0	55 (Leq5min) 55 (Leq 1hr)
	Fri	14/2/25	0000	14/2/25	700	48.9	55 (Leq5min) 55 (Leq 1hr)
	Fri	14/2/25	700	14/2/25	1900	54.7	90 (Leq5min) 75 (Leq12hrs)
	Fri	14/2/25	1900	14/2/25	2200	51.1	70 (Leq5min) 65 (Leq 1hr)
	Fri	14/2/25	2200	15/2/25	0000	50.5	55 (Leq5min) 55 (Leq 1hr)
	Sat	15/2/25	0000	15/2/25	700	48.5	55 (Leq5min) 55 (Leq 1hr)
	Sat	15/2/25	700	15/2/25	1900	55.8	90 (Leq5min) 75 (Leq12hrs)
	Sat	15/2/25	1900	15/2/25	2200	50.1	70 (Leq5min) 65 (Leq 1hr)
	Sat	15/2/25	2200	16/2/25	0000	49.7	55 (Leq5min) 55 (Leq 1hr)
	Sun	16/2/25	0000	16/2/25	700	48.4	55 (Leq5min) 55 (Leq 1hr)
	Sun	16/2/25	700	16/2/25	1900	51.2	75 (Leq5min) 75 (Leq 1hr)
	Sun	16/2/25	1900	16/2/25	2200	50.2	55 (Leq5min)
	Sun	16/2/25	2200	17/2/25	0000	49.2	55 (Leq5min)
	Mon	17/2/25	0000	17/2/25	700	48.5	55 (Leq5min)
	Mon	17/2/25	700	17/2/25	1900	54.8	90 (Leq5min) 75 (Leq12hrs)
	Mon	17/2/25	1900	17/2/25	2200	53.4	70 (Leq5min) 65 (Leq 1hr)
	Mon	17/2/25	2200	17/2/25	0000	49.8	55 (Leq5min) 55 (Leq 1hr)
	Tue	18/2/25	0000	18/2/25	0700	48.8	55 (Leq5min) 55 (Leq 1hr)

Table 6.4 Summary of Noise Monitoring Results at Continuous Equivalent of LEQ for specific period

7.0 SUMMARY

The purpose of this survey was to assess the current acoustical environment to establish the background noise level generated over One (1) monitoring point/location for continuous twenty-four (24) hours and seven (7) days noise monitoring at the boundary of the project site for Project Title

Baseline Noise Survey @ NM3 EIA Gillman Barracks

The location of the nearest Noise Receiver (NSR) : **NM3 (RoofTop of 112C Depot Road)**

The findings show that,

The ambience noise at NSR NM3 Roof Top of Blk112C Depot Road, falls within the Permissible limits stated in the NEA Guideline on construction noise control for the time period between 7am to 10pm (Leq5min & Leq12hrs) (Monday to Saturday) most of the time.

* Refer to Appendix E for full noise data report.

We recommend submitting an appeal to NEA to adjust the Noise Limit as in table 6.5 for NSR NM3 Roof Top of Blk112C Depot Road

Background Noise Correction Factor

The adjusted value for the maximum noise level shall be obtained by adding the correction factor corresponding to the difference between the maximum permitted level and the background noise level, set out in the Table below, to the higher of the 2 noise levels.

Difference between 2 noise levels in decibels (A)	Correction factor in decibels (A)
a) Below 2	3
b) 2 to less than 4	2
c) 4 to less than 10	1
d) 10 and above	NIL

Proposed New Permissible Noise Level for monitoring point: **NM3 (RoofTop of 112C Depot Road)**

Period	Noise Limit	*Equivalent continuous sound level over period in Leq dB(A) - Background Noise	Difference	Correction Factor	Proposed Adjusted New Permissible Level (dBA)
7am to 7pm (Monday to Saturday)	90 (Leq 5min)	55.8	34.2	0	90 (Leq 5min)
	75 (Leq 12hr)	55.8	19.2	0	75 (Leq 12hr)
7pm to 10pm (Monday to Saturday)	70 (Leq 5min)	53.4	16.6	0	70 (Leq 5min)
	65 (Leq 1 hr)	53.4	11.6	0	65 (Leq 1 hr)
10pm to 12am (Monday to Saturday)	55 (Leq 5min)	50.5	4.5	1	56 (Leq 5min)
	55 (Leq 1 hr)	50.5	4.5	1	56 (Leq 1 hr)
12am to 7am (Monday to Saturday)	55 (Leq 5min)	49.5	5.5	1	56 (Leq 5min)
	55 (Leq 1 hr)	49.5	5.5	1	56 (Leq 1 hr)
7am to 7pm (Sunday)	75 (Leq 5min)	51.2	23.8	0	75 (Leq 5min)
	75 (Leq 12hr)	51.2	23.8	0	75 (Leq 12hr)
7pm to 10pm (Sunday)	55 (Leq 5min)	50.2	4.8	1	56 (Leq 5min)
10pm to 12am (Sunday)	55 (Leq 5min)	49.2	5.8	1	56 (Leq 5min)
12am to 7am (Sunday)	55 (Leq 5min)	48.4	6.6	1	56 (Leq 5min)

* The highest equivalent continuous sound level in Leq dB(A) between Monday to Saturday is taken for calculating the adjusted new permissible level for each period.

Table 6.5 Proposed New Permissible Noise Level

8.0 CONFIRMATION

We, ENSSCOM PTE LTD, certify that the information given is correct. The noise survey was conducted for

CH2M HILL Singapore Pte Ltd
150 Beach Road, Gateway West 34th Floor, Singapore 189720

To carry out One (1) monitoring points/locations for continuous twenty-four (24) hours and seven (7) days noise monitoring at the boundary of the project site for Project Title

Baseline Noise Survey @ NM3 EIA Gillman Barracks

was carried out as described in this report and the results resented herein.

Date of Monitoring:

(0700hrs
From 11/2/25) to 18/2/25 (0700hrs)

Hoo Hian Choon (Mr)
Noise Monitoring Consultant
25-Feb-2025

APPENDIX A : INSTRUMENT LAYOUT PLAN



APPENDIX B: NEA CONSTRUCTION NOISE CONTROL GUIDELINE

Construction Noise Control

Maximum Permissible Noise Levels for Construction Work Commenced on or after 1st October 2007

Noise Regulation

Mondays to Saturdays

Types of affected buildings	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospital, schools, institutions of higher learning, homes for aged sick, etc.	60 dBA (Leq* 12 hrs)	50 dBA (Leq 12 hrs)	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(b) Residential buildings located less than 150m from the construction site	75 dBA (Leq 12 hrs)	65 dBA (Leq 1 hr)	55 dBA (Leq 1 hr)
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)
(c) Buildings other than those in (a) and (b) above	75 dBA (Leq 12 hrs)	65 dBA (Leq 12 hrs)	
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	

Sundays and Public Holidays

Types of affected buildings	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospital, schools, institutions of higher learning, homes for aged sick, etc.	60 dBA (Leq* 12 hrs)	50 dBA (Leq 12 hrs)	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(b) Residential buildings located less than 150m from the construction site	75 dBA (Leq 12 hrs)	-	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(c) Buildings other than those in (a) and (b) above	75 dBA (Leq 12 hrs)	65 dBA (Leq 12 hrs)	
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	

APPENDIX C: NOISE MONITORING OFFICER CERTIFICATES

S/No: 02/20/159



Acoustical Laboratory Pte Ltd
CENTRE FOR ENVIRONMENTAL CONSULTATION AND TRAINING

Certificate of Competence

This is to certify that

Hoo Hian Choon

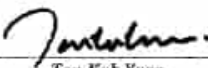
has attended and passed an examination
for a course on

Noise Monitoring

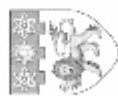
held between 22nd May 2002 and 24th May 2002

Acoustical Laboratory is approved by the Ministry of
Labour as a Training Centre for the
Noise Monitoring Course




Tan Kok Yang
Course Co-ordinator


Koh L. B.
Managing Director



NANYANG
TECHNOLOGICAL
UNIVERSITY

This is to certify that

Hoo Hian Choon

has successfully completed the 2½-day course

Industrial Noise Control

A handwritten signature in black ink, reading "Seah Ben Han".

Seah Ben Han
Director
Centre for Continuing Education

27 August 2010

APPENDIX D: INSTRUMENT CALIBRATION CERTIFICATES



Certificate of Calibration

Equipment Details

Equipment Manufacturer	Cirrus Research plc
Equipment Type	CEI 191 SG
Description	Sound Level Meter
Serial Number	0302395

Calibration Procedure

The instrument detailed above have been calibrated to the published test and calibration data as detailed in the instrument hand book, using the techniques recommended in the latest revisions of the International Standards IEC 61672-1:2013, IEC 61672-1:2002, IEC 60651:1999, IEC 60804: 2001, IEC 61750:1995, IEC 60942:2007, IEC 60943:1997, IEC 61157:1995, ANSI S1.4-1983, ANSI S1.11-1988 and ANSI S1.13-1997 where applicable.
Sound Level Meters: All Calibration procedures were carried out by substituting the microphone capsule with a suitable electrical signal, apart from the Octave band calibration.

Calibration Traceability

The instrument detailed above was calibrated against the calibration laboratory standards held by Cirrus Research plc. These are traceable to International Standards (A361). The standards are:

Multi Acoustic Calibrator	U & K 4226	Serial Number	36-1345	Calibration Ref	551363110506948-3
Microphone Type	MK 224	Serial Number	1-4953H	Calibration Ref	202903

Calibrated by

Calibration Date

26 January 2024

Calibration Certificate Number

058034

This Calibration Certificate is valid for 12 months from the date above.

Cirrus Research plc, Access House, Redbridge Road, Hemmels, North St. Ives, YO21 0PU
Telephone: +44 (0) 1723 891655 Fax: +44 (0) 1723 891742
Email: sales@cirrusresearch.co.uk

CERTIFICATE OF CALIBRATION

ISSUED BY Cirrus Research plc

DATE OF ISSUE 03 January 2025 CERTIFICATE NUMBER 229571



Cirrus Research plc
Acoustic House
Bridlington Road
Hunmanby
North Yorkshire
YO14 0PH
United Kingdom

Page 1 of 2

Approved signatory

A. Windress

Electronically signed

Sound Calibrator : IEC 60942:2003

Instrument information

Manufacturer: Cirrus Research plc

Notes:

Model: CR.515

Serial number: 60614

Class: 1

Test summary

Date of calibration: 03 January 2025

The sound calibrator detailed above has been calibrated to the published data as described in the operating manual and in the half-inch configuration. The procedures and techniques used are as described in IEC60942_2003 Annex B – Periodic Tests and three determinations of the sound pressure level, frequency and total distortion were made.

The sound pressure level was measured using a W52F condenser microphone type MK-224 manufactured by Cirrus Research plc.

The results have been corrected to the reference pressure of 101.33 kPa using the manufacturer's data.

As public evidence was available, from a testing organisation responsible for approving the results of pattern evaluation tests, to demonstrate that the model of sound calibrator fully conformed to the requirements for pattern evaluation described in Annex A of IEC 60942:2003, the sound calibrator tested is considered to conform to all the Class 1 requirements of IEC 60942:2003.

The manufacturer's product information indicates that this model of sound calibrator has been formally pattern approved to IEC60942_2003 Annex A to Class 1. This has been confirmed by Laboratoire National d'Essais (LNE), Physikalisch-Technische Bundesanstalt (PTB) and APPLUS (APPLUS).

Notes:

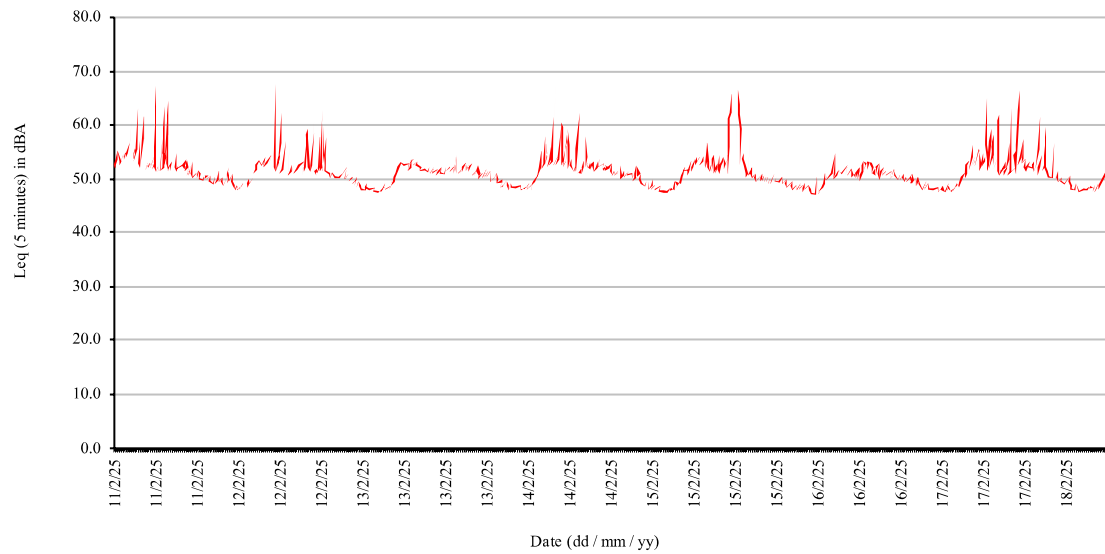
This certificate provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory. The results within this certificate relate only to the items calibrated. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%.

APPENDIX E

CONSTRUCTION SITE NOISE MONITORING DATA AND CHART

NAME OF COMPANY	CH2M HILL Singapore Pte Ltd		
SITE LOCATION	NM3 EIA Gillman Barracks		
REPORT REFERENCE	11/02/2025 - 18/02/2025		
MODE	Environment	FREQUENCY WEIGHTING	A

Leq (5 Minutes) Plotted Against Date of Monitoring



NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM3 EIA Gillman Barracks								
REPORT REFERENCE			11/02/2025 - 18/02/2025								
Start	11/2/25		7:05	Leq12h			55.4	Weighting		A	
End	11/2/25		19:00								
Date	Time	Leq5m		Date	Time	Leq5m		Date	Time	Leq5m	
11/2/25	7:05	52.3		11/2/25	11:05	53.0		11/2/25	15:05	52.0	
11/2/25	7:10	52.7		11/2/25	11:10	53.1		11/2/25	15:10	63.5	
11/2/25	7:15	53.5		11/2/25	11:15	53.1		11/2/25	15:15	59.1	
11/2/25	7:20	55.3		11/2/25	11:20	52.3		11/2/25	15:20	54.8	
11/2/25	7:25	53.5		11/2/25	11:25	52.7		11/2/25	15:25	54.1	
11/2/25	7:30	53.6		11/2/25	11:30	52.4		11/2/25	15:30	53.1	
11/2/25	7:35	53.7		11/2/25	11:35	52.6		11/2/25	15:35	53.2	
11/2/25	7:40	54.0		11/2/25	11:40	52.4		11/2/25	15:40	53.6	
11/2/25	7:45	53.2		11/2/25	11:45	57.3		11/2/25	15:45	52.6	
11/2/25	7:50	54.0		11/2/25	11:50	57.6		11/2/25	15:50	58.1	
11/2/25	7:55	53.4		11/2/25	11:55	61.4		11/2/25	15:55	64.5	
11/2/25	8:00	53.7		11/2/25	12:00	52.6		11/2/25	16:00	53.9	
11/2/25	8:05	52.9		11/2/25	12:05	53.5		11/2/25	16:05	52.8	
11/2/25	8:10	52.7		11/2/25	12:10	53.5		11/2/25	16:10	51.9	
11/2/25	8:15	53.1		11/2/25	12:15	53.0		11/2/25	16:15	52.6	
11/2/25	8:20	52.9		11/2/25	12:20	52.7		11/2/25	16:20	51.6	
11/2/25	8:25	54.5		11/2/25	12:25	53.4		11/2/25	16:25	52.3	
11/2/25	8:30	53.9		11/2/25	12:30	52.4		11/2/25	16:30	53.4	
11/2/25	8:35	54.2		11/2/25	12:35	51.9		11/2/25	16:35	52.5	
11/2/25	8:40	53.7		11/2/25	12:40	52.8		11/2/25	16:40	51.4	
11/2/25	8:45	54.7		11/2/25	12:45	52.2		11/2/25	16:45	51.6	
11/2/25	8:50	54.4		11/2/25	12:50	52.7		11/2/25	16:50	52.8	
11/2/25	8:55	54.0		11/2/25	12:55	51.7		11/2/25	16:55	52.2	
11/2/25	9:00	54.4		11/2/25	13:00	52.8		11/2/25	17:00	52.5	
11/2/25	9:05	53.5		11/2/25	13:05	52.4		11/2/25	17:05	53.0	
11/2/25	9:10	54.7		11/2/25	13:10	53.0		11/2/25	17:10	52.4	
11/2/25	9:15	56.7		11/2/25	13:15	52.4		11/2/25	17:15	54.8	
11/2/25	9:20	54.9		11/2/25	13:20	52.2		11/2/25	17:20	52.1	
11/2/25	9:25	56.6		11/2/25	13:25	51.8		11/2/25	17:25	51.7	
11/2/25	9:30	58.1	11/2/25	13:30	52.1	11/2/25	17:30	51.4			
11/2/25	9:35	58.4	11/2/25	13:35	54.2	11/2/25	17:35	52.6			
11/2/25	9:40	56.2	11/2/25	13:40	51.7	11/2/25	17:40	52.2			
11/2/25	9:45	60.6	11/2/25	13:45	52.8	11/2/25	17:45	51.8			
11/2/25	9:50	59.5	11/2/25	13:50	67.2	11/2/25	17:50	51.9			
11/2/25	9:55	61.0	11/2/25	13:55	52.1	11/2/25	17:55	51.6			
11/2/25	10:00	55.6	11/2/25	14:00	51.9	11/2/25	18:00	51.3			
11/2/25	10:05	55.1	11/2/25	14:05	52.7	11/2/25	18:05	52.2			
11/2/25	10:10	56.6	11/2/25	14:10	51.5	11/2/25	18:10	52.4			
11/2/25	10:15	56.0	11/2/25	14:15	51.0	11/2/25	18:15	52.9			
11/2/25	10:20	54.8	11/2/25	14:20	52.1	11/2/25	18:20	53.1			
11/2/25	10:25	56.0	11/2/25	14:25	51.4	11/2/25	18:25	52.2			
11/2/25	10:30	54.2	11/2/25	14:30	53.3	11/2/25	18:30	52.5			
11/2/25	10:35	53.4	11/2/25	14:35	52.0	11/2/25	18:35	52.9			
11/2/25	10:40	55.7	11/2/25	14:40	52.4	11/2/25	18:40	52.4			
11/2/25	10:45	61.2	11/2/25	14:45	57.6	11/2/25	18:45	52.5			
11/2/25	10:50	63.0	11/2/25	14:50	53.5	11/2/25	18:50	52.0			
11/2/25	10:55	54.3	11/2/25	14:55	52.2	11/2/25	18:55	51.9			
11/2/25	11:00	56.9	11/2/25	15:00	51.6	11/2/25	19:00	53.6			

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM3 EIA Gillman Barracks							
REPORT REFERENCE				11/02/2025 - 18/02/2025							
Start	11/2/25	19:05		Leq12h	50.0			Weighting	A		
End	12/2/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
11/2/25	19:05	51.5	51.4	11/2/25	23:05	49.5	49.6	12/2/25	3:05	49.7	48.7
11/2/25	19:10	51.1		11/2/25	23:10	49.8		12/2/25	3:10	48.6	
11/2/25	19:15	52.3		11/2/25	23:15	49.6		12/2/25	3:15	48.8	
11/2/25	19:20	51.6		11/2/25	23:20	49.7		12/2/25	3:20	48.6	
11/2/25	19:25	50.6		11/2/25	23:25	49.7		12/2/25	3:25	49.2	
11/2/25	19:30	51.4		11/2/25	23:30	50.0		12/2/25	3:30	48.2	
11/2/25	19:35	50.7		11/2/25	23:35	50.0		12/2/25	3:35	48.8	
11/2/25	19:40	51.7		11/2/25	23:40	49.2		12/2/25	3:40	48.9	
11/2/25	19:45	51.1		11/2/25	23:45	49.1		12/2/25	3:45	48.3	
11/2/25	19:50	51.6		11/2/25	23:50	49.1		12/2/25	3:50	48.4	
11/2/25	19:55	51.6	51.1	11/2/25	23:55	50.4	49.6	12/2/25	3:55	48.5	48.5
11/2/25	20:00	51.3		11/2/25	0:00	49.3		12/2/25	4:00	48.0	
11/2/25	20:05	53.4		12/2/25	0:05	48.9		12/2/25	4:05	48.4	
11/2/25	20:10	51.1		12/2/25	0:10	49.2		12/2/25	4:10	48.4	
11/2/25	20:15	51.0		12/2/25	0:15	49.2		12/2/25	4:15	48.7	
11/2/25	20:20	50.9		12/2/25	0:20	49.1		12/2/25	4:20	48.1	
11/2/25	20:25	50.4		12/2/25	0:25	49.2		12/2/25	4:25	48.2	
11/2/25	20:30	50.6		12/2/25	0:30	49.6		12/2/25	4:30	48.3	
11/2/25	20:35	50.2		12/2/25	0:35	49.9		12/2/25	4:35	48.2	
11/2/25	20:40	50.9		12/2/25	0:40	51.4		12/2/25	4:40	48.5	
11/2/25	20:45	51.1	50.3	12/2/25	0:45	49.6	49.8	12/2/25	4:45	49.2	49.1
11/2/25	20:50	50.6		12/2/25	0:50	49.8		12/2/25	4:50	48.8	
11/2/25	20:55	50.2		12/2/25	0:55	49.0		12/2/25	4:55	48.4	
11/2/25	21:00	51.4		12/2/25	1:00	49.5		12/2/25	5:00	48.6	
11/2/25	21:05	50.1		12/2/25	1:05	49.6		12/2/25	5:05	49.7	
11/2/25	21:10	50.3		12/2/25	1:10	50.1		12/2/25	5:10	48.3	
11/2/25	21:15	50.6		12/2/25	1:15	49.7		12/2/25	5:15	48.4	
11/2/25	21:20	51.0		12/2/25	1:20	49.4		12/2/25	5:20	48.6	
11/2/25	21:25	51.1		12/2/25	1:25	48.8		12/2/25	5:25	49.2	
11/2/25	21:30	49.9		12/2/25	1:30	49.9		12/2/25	5:30	48.5	
11/2/25	21:35	49.8	50.2	12/2/25	1:35	49.4	50.0	12/2/25	5:35	48.6	50.7
11/2/25	21:40	49.5		12/2/25	1:40	48.8		12/2/25	5:40	49.1	
11/2/25	21:45	50.3		12/2/25	1:45	50.1		12/2/25	5:45	49.8	
11/2/25	21:50	50.4		12/2/25	1:50	49.2		12/2/25	5:50	49.8	
11/2/25	21:55	50.3		12/2/25	1:55	50.9		12/2/25	5:55	49.2	
11/2/25	22:00	49.9		12/2/25	2:00	50.6		12/2/25	6:00	49.3	
11/2/25	22:05	49.5		12/2/25	2:05	49.7		12/2/25	6:05	49.6	
11/2/25	22:10	50.2		12/2/25	2:10	52.0		12/2/25	6:10	50.2	
11/2/25	22:15	50.7		12/2/25	2:15	49.9		12/2/25	6:15	49.5	
11/2/25	22:20	50.3		12/2/25	2:20	49.3		12/2/25	6:20	50.0	
11/2/25	22:25	50.0	50.2	12/2/25	2:25	50.3		12/2/25	6:25	50.2	
11/2/25	22:30	49.8		12/2/25	2:30	49.4		12/2/25	6:30	50.4	
11/2/25	22:35	49.5		12/2/25	2:35	49.3		12/2/25	6:35	50.6	
11/2/25	22:40	50.5		12/2/25	2:40	49.9		12/2/25	6:40	51.7	
11/2/25	22:45	50.1		12/2/25	2:45	51.2		12/2/25	6:45	51.2	
11/2/25	22:50	49.8		12/2/25	2:50	49.6		12/2/25	6:50	51.5	
11/2/25	22:55	50.4		12/2/25	2:55	49.2		12/2/25	6:55	50.9	
11/2/25	23:00	50.8		12/2/25	3:00	49.2		12/2/25	7:00	51.8	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM3 EIA Gillman Barracks						
REPORT REFERENCE			11/02/2025 - 18/02/2025						
Start	12/2/25	7:05	Leq12h	54.3			Weighting		A
End	12/2/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m		Date	Time	Leq5m
12/2/25	7:05	51.8	12/2/25	11:05	62.4		12/2/25	15:05	51.6
12/2/25	7:10	52.6	12/2/25	11:10	51.1		12/2/25	15:10	51.9
12/2/25	7:15	52.7	12/2/25	11:15	51.5		12/2/25	15:15	51.6
12/2/25	7:20	52.3	12/2/25	11:20	51.6		12/2/25	15:20	51.7
12/2/25	7:25	53.0	12/2/25	11:25	51.9		12/2/25	15:25	52.2
12/2/25	7:30	53.3	12/2/25	11:30	51.8		12/2/25	15:30	52.2
12/2/25	7:35	53.6	12/2/25	11:35	51.3		12/2/25	15:35	52.3
12/2/25	7:40	53.0	12/2/25	11:40	51.5		12/2/25	15:40	59.5
12/2/25	7:45	53.7	12/2/25	11:45	51.8		12/2/25	15:45	58.1
12/2/25	7:50	52.9	12/2/25	11:50	56.9		12/2/25	15:50	52.0
12/2/25	7:55	52.7	12/2/25	11:55	57.1		12/2/25	15:55	52.0
12/2/25	8:00	52.5	12/2/25	12:00	57.5		12/2/25	16:00	52.7
12/2/25	8:05	52.8	12/2/25	12:05	52.3		12/2/25	16:05	52.1
12/2/25	8:10	52.8	12/2/25	12:10	52.3		12/2/25	16:10	51.7
12/2/25	8:15	54.0	12/2/25	12:15	52.4		12/2/25	16:15	51.6
12/2/25	8:20	53.3	12/2/25	12:20	52.5		12/2/25	16:20	51.6
12/2/25	8:25	52.9	12/2/25	12:25	51.8		12/2/25	16:25	52.5
12/2/25	8:30	52.1	12/2/25	12:30	51.8		12/2/25	16:30	53.1
12/2/25	8:35	52.8	12/2/25	12:35	57.1		12/2/25	16:35	58.6
12/2/25	8:40	52.6	12/2/25	12:40	50.5		12/2/25	16:40	53.1
12/2/25	8:45	52.9	12/2/25	12:45	51.4		12/2/25	16:45	60.7
12/2/25	8:50	53.0	12/2/25	12:50	51.8		12/2/25	16:50	51.5
12/2/25	8:55	53.2	12/2/25	12:55	51.4		12/2/25	16:55	51.4
12/2/25	9:00	53.0	12/2/25	13:00	52.4		12/2/25	17:00	51.7
12/2/25	9:05	52.7	12/2/25	13:05	51.6		12/2/25	17:05	51.9
12/2/25	9:10	52.5	12/2/25	13:10	52.6		12/2/25	17:10	51.9
12/2/25	9:15	54.3	12/2/25	13:15	52.3		12/2/25	17:15	52.2
12/2/25	9:20	52.9	12/2/25	13:20	51.7		12/2/25	17:20	52.3
12/2/25	9:25	53.5	12/2/25	13:25	51.4		12/2/25	17:25	50.8
12/2/25	9:30	53.0	12/2/25	13:30	51.6		12/2/25	17:30	52.1
12/2/25	9:35	53.1	12/2/25	13:35	51.0		12/2/25	17:35	57.7
12/2/25	9:40	53.0	12/2/25	13:40	50.8		12/2/25	17:40	52.2
12/2/25	9:45	53.4	12/2/25	13:45	51.0		12/2/25	17:45	51.8
12/2/25	9:50	52.8	12/2/25	13:50	51.3		12/2/25	17:50	52.1
12/2/25	9:55	52.5	12/2/25	13:55	51.4		12/2/25	17:55	51.4
12/2/25	10:00	67.5	12/2/25	14:00	51.7		12/2/25	18:00	52.0
12/2/25	10:05	54.4	12/2/25	14:05	51.4		12/2/25	18:05	62.7
12/2/25	10:10	52.0	12/2/25	14:10	52.4		12/2/25	18:10	51.8
12/2/25	10:15	52.3	12/2/25	14:15	53.1		12/2/25	18:15	51.9
12/2/25	10:20	52.1	12/2/25	14:20	52.2		12/2/25	18:20	52.7
12/2/25	10:25	51.4	12/2/25	14:25	52.0		12/2/25	18:25	51.5
12/2/25	10:30	51.4	12/2/25	14:30	52.4		12/2/25	18:30	52.1
12/2/25	10:35	51.9	12/2/25	14:35	52.0		12/2/25	18:35	52.1
12/2/25	10:40	53.7	12/2/25	14:40	52.0		12/2/25	18:40	51.7
12/2/25	10:45	52.4	12/2/25	14:45	53.2		12/2/25	18:45	57.7
12/2/25	10:50	54.5	12/2/25	14:50	50.7		12/2/25	18:50	51.5
12/2/25	10:55	51.8	12/2/25	14:55	51.4		12/2/25	18:55	51.8
12/2/25	11:00	56.8	12/2/25	15:00	52.2		12/2/25	19:00	51.6

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM3 EIA Gillman Barracks							
REPORT REFERENCE				11/02/2025 - 18/02/2025							
Start	12/2/25	19:05		Leq12h	49.5			Weighting		A	
End	13/2/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
12/2/25	19:05	51.8		12/2/25	23:05	50.3		13/2/25	3:05	48.0	
12/2/25	19:10	51.9		12/2/25	23:10	50.4		13/2/25	3:10	48.0	
12/2/25	19:15	51.0		12/2/25	23:15	49.8		13/2/25	3:15	47.8	
12/2/25	19:20	51.6		12/2/25	23:20	49.3		13/2/25	3:20	47.9	
12/2/25	19:25	51.5		12/2/25	23:25	48.8		13/2/25	3:25	47.9	
12/2/25	19:30	50.9		12/2/25	23:30	49.3		13/2/25	3:30	47.5	
12/2/25	19:35	50.9		12/2/25	23:35	49.7		13/2/25	3:35	47.7	
12/2/25	19:40	50.3		12/2/25	23:40	49.9		13/2/25	3:40	47.7	
12/2/25	19:45	51.0		12/2/25	23:45	48.7		13/2/25	3:45	47.7	
12/2/25	19:50	51.0		12/2/25	23:50	48.4		13/2/25	3:50	47.8	
12/2/25	19:55	50.6		12/2/25	23:55	50.3		13/2/25	3:55	48.0	
12/2/25	20:00	51.0	51.1	12/2/25	0:00	49.3	49.6	13/2/25	4:00	48.2	47.9
12/2/25	20:05	50.6		13/2/25	0:05	49.0		13/2/25	4:05	48.0	
12/2/25	20:10	50.8		13/2/25	0:10	48.9		13/2/25	4:10	48.4	
12/2/25	20:15	50.2		13/2/25	0:15	48.5		13/2/25	4:15	48.3	
12/2/25	20:20	50.8		13/2/25	0:20	49.4		13/2/25	4:20	48.3	
12/2/25	20:25	50.4		13/2/25	0:25	48.7		13/2/25	4:25	47.7	
12/2/25	20:30	50.6		13/2/25	0:30	48.8		13/2/25	4:30	48.6	
12/2/25	20:35	50.4		13/2/25	0:35	49.3		13/2/25	4:35	48.0	
12/2/25	20:40	50.6		13/2/25	0:40	48.3		13/2/25	4:40	47.9	
12/2/25	20:45	50.6		13/2/25	0:45	48.6		13/2/25	4:45	49.0	
12/2/25	20:50	50.3		13/2/25	0:50	48.6		13/2/25	4:50	48.0	
12/2/25	20:55	50.3		13/2/25	0:55	48.1		13/2/25	4:55	48.5	
12/2/25	21:00	50.7	50.5	13/2/25	1:00	48.1	48.7	13/2/25	5:00	48.1	48.2
12/2/25	21:05	50.1		13/2/25	1:05	48.0		13/2/25	5:05	48.2	
12/2/25	21:10	50.3		13/2/25	1:10	47.9		13/2/25	5:10	48.2	
12/2/25	21:15	50.2		13/2/25	1:15	48.5		13/2/25	5:15	48.1	
12/2/25	21:20	51.0		13/2/25	1:20	48.2		13/2/25	5:20	48.2	
12/2/25	21:25	51.0		13/2/25	1:25	47.9		13/2/25	5:25	48.4	
12/2/25	21:30	50.2		13/2/25	1:30	47.8		13/2/25	5:30	48.6	
12/2/25	21:35	50.2		13/2/25	1:35	49.0		13/2/25	5:35	49.3	
12/2/25	21:40	50.2		13/2/25	1:40	48.5		13/2/25	5:40	48.0	
12/2/25	21:45	50.4		13/2/25	1:45	48.2		13/2/25	5:45	48.8	
12/2/25	21:50	50.4		13/2/25	1:50	48.5		13/2/25	5:50	48.9	
12/2/25	21:55	50.2		13/2/25	1:55	48.7		13/2/25	5:55	50.2	
12/2/25	22:00	52.3	50.6	13/2/25	2:00	48.2	48.3	13/2/25	6:00	48.8	48.7
12/2/25	22:05	49.9		13/2/25	2:05	48.0		13/2/25	6:05	49.2	
12/2/25	22:10	50.4		13/2/25	2:10	48.0		13/2/25	6:10	49.3	
12/2/25	22:15	50.0		13/2/25	2:15	47.8		13/2/25	6:15	49.2	
12/2/25	22:20	50.9		13/2/25	2:20	48.1		13/2/25	6:20	49.5	
12/2/25	22:25	51.6		13/2/25	2:25	48.0		13/2/25	6:25	50.3	
12/2/25	22:30	49.4		13/2/25	2:30	48.4		13/2/25	6:30	50.1	
12/2/25	22:35	49.3		13/2/25	2:35	47.6		13/2/25	6:35	50.4	
12/2/25	22:40	49.8		13/2/25	2:40	48.0		13/2/25	6:40	50.6	
12/2/25	22:45	50.3		13/2/25	2:45	48.4		13/2/25	6:45	50.6	
12/2/25	22:50	49.6		13/2/25	2:50	48.1		13/2/25	6:50	50.9	
12/2/25	22:55	49.0		13/2/25	2:55	48.2		13/2/25	6:55	50.7	
12/2/25	23:00	49.8	50.1	13/2/25	3:00	47.7	48.0	13/2/25	7:00	51.0	50.2

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM3 EIA Gillman Barracks						
REPORT REFERENCE			11/02/2025 - 18/02/2025						
Start	13/2/25	7:05	Leq12h		52.0	Weighting		A	
End	13/2/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m	
13/2/25	7:05	51.2	13/2/25	11:05	51.8	13/2/25	15:05	50.8	
13/2/25	7:10	52.3	13/2/25	11:10	51.4	13/2/25	15:10	52.0	
13/2/25	7:15	52.5	13/2/25	11:15	51.7	13/2/25	15:15	51.6	
13/2/25	7:20	52.2	13/2/25	11:20	51.9	13/2/25	15:20	51.8	
13/2/25	7:25	52.4	13/2/25	11:25	51.6	13/2/25	15:25	51.6	
13/2/25	7:30	53.0	13/2/25	11:30	51.8	13/2/25	15:30	52.1	
13/2/25	7:35	52.5	13/2/25	11:35	52.2	13/2/25	15:35	51.5	
13/2/25	7:40	52.6	13/2/25	11:40	51.5	13/2/25	15:40	52.0	
13/2/25	7:45	52.4	13/2/25	11:45	51.7	13/2/25	15:45	52.2	
13/2/25	7:50	52.9	13/2/25	11:50	52.2	13/2/25	15:50	51.7	
13/2/25	7:55	52.7	13/2/25	11:55	52.0	13/2/25	15:55	52.4	
13/2/25	8:00	52.9	13/2/25	12:00	51.4	13/2/25	16:00	51.7	
13/2/25	8:05	52.9	13/2/25	12:05	51.6	13/2/25	16:05	51.3	
13/2/25	8:10	52.1	13/2/25	12:10	51.2	13/2/25	16:10	51.0	
13/2/25	8:15	52.1	13/2/25	12:15	52.1	13/2/25	16:15	51.2	
13/2/25	8:20	52.8	13/2/25	12:20	52.6	13/2/25	16:20	52.2	
13/2/25	8:25	52.6	13/2/25	12:25	51.9	13/2/25	16:25	52.2	
13/2/25	8:30	52.6	13/2/25	12:30	51.9	13/2/25	16:30	51.3	
13/2/25	8:35	53.0	13/2/25	12:35	51.2	13/2/25	16:35	54.3	
13/2/25	8:40	52.8	13/2/25	12:40	51.2	13/2/25	16:40	51.2	
13/2/25	8:45	51.6	13/2/25	12:45	52.1	13/2/25	16:45	51.8	
13/2/25	8:50	52.8	13/2/25	12:50	51.9	13/2/25	16:50	51.3	
13/2/25	8:55	52.3	13/2/25	12:55	52.2	13/2/25	16:55	51.2	
13/2/25	9:00	53.4	13/2/25	13:00	51.0	13/2/25	17:00	52.1	
13/2/25	9:05	52.6	13/2/25	13:05	50.5	13/2/25	17:05	52.5	
13/2/25	9:10	53.8	13/2/25	13:10	51.2	13/2/25	17:10	51.2	
13/2/25	9:15	52.8	13/2/25	13:15	51.2	13/2/25	17:15	51.1	
13/2/25	9:20	53.3	13/2/25	13:20	50.8	13/2/25	17:20	51.0	
13/2/25	9:25	53.5	13/2/25	13:25	51.8	13/2/25	17:25	51.4	
13/2/25	9:30	52.9	13/2/25	13:30	51.6	13/2/25	17:30	51.7	
13/2/25	9:35	53.6	13/2/25	13:35	50.7	13/2/25	17:35	51.2	
13/2/25	9:40	52.5	13/2/25	13:40	51.2	13/2/25	17:40	52.2	
13/2/25	9:45	53.1	13/2/25	13:45	51.4	13/2/25	17:45	52.3	
13/2/25	9:50	52.5	13/2/25	13:50	51.7	13/2/25	17:50	52.0	
13/2/25	9:55	52.6	13/2/25	13:55	51.1	13/2/25	17:55	51.9	
13/2/25	10:00	52.7	13/2/25	14:00	51.9	13/2/25	18:00	51.6	
13/2/25	10:05	52.4	13/2/25	14:05	51.3	13/2/25	18:05	52.2	
13/2/25	10:10	53.2	13/2/25	14:10	51.2	13/2/25	18:10	52.0	
13/2/25	10:15	52.4	13/2/25	14:15	52.2	13/2/25	18:15	52.0	
13/2/25	10:20	52.8	13/2/25	14:20	51.0	13/2/25	18:20	52.6	
13/2/25	10:25	52.1	13/2/25	14:25	50.8	13/2/25	18:25	52.8	
13/2/25	10:30	52.3	13/2/25	14:30	50.9	13/2/25	18:30	52.5	
13/2/25	10:35	52.4	13/2/25	14:35	50.5	13/2/25	18:35	52.7	
13/2/25	10:40	52.1	13/2/25	14:40	51.1	13/2/25	18:40	52.2	
13/2/25	10:45	51.5	13/2/25	14:45	50.9	13/2/25	18:45	51.6	
13/2/25	10:50	51.5	13/2/25	14:50	51.5	13/2/25	18:50	52.6	
13/2/25	10:55	51.6	13/2/25	14:55	51.1	13/2/25	18:55	51.5	
13/2/25	11:00	51.4	13/2/25	15:00	52.0	13/2/25	19:00	51.6	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM3 EIA Gillman Barracks								
REPORT REFERENCE			11/02/2025 - 18/02/2025								
Start	13/2/25	19:05		Leq12h		49.8		Weighting		A	
End	14/2/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
13/2/25	19:05	51.9	51.6	13/2/25	23:05	49.4	49.6	14/2/25	3:05	48.2	48.6
13/2/25	19:10	52.0		13/2/25	23:10	49.2		14/2/25	3:10	48.2	
13/2/25	19:15	53.0		13/2/25	23:15	50.0		14/2/25	3:15	48.2	
13/2/25	19:20	52.2		13/2/25	23:20	49.0		14/2/25	3:20	48.2	
13/2/25	19:25	50.8		13/2/25	23:25	49.2		14/2/25	3:25	48.3	
13/2/25	19:30	51.6		13/2/25	23:30	49.7		14/2/25	3:30	48.6	
13/2/25	19:35	51.6		13/2/25	23:35	51.0		14/2/25	3:35	48.7	
13/2/25	19:40	51.0		13/2/25	23:40	50.0		14/2/25	3:40	49.0	
13/2/25	19:45	50.9		13/2/25	23:45	49.2		14/2/25	3:45	48.8	
13/2/25	19:50	50.8		13/2/25	23:50	49.2		14/2/25	3:50	49.3	
13/2/25	19:55	51.2	50.9	13/2/25	23:55	49.5	49.0	14/2/25	3:55	48.7	48.3
13/2/25	20:00	51.3		13/2/25	0:00	49.5		14/2/25	4:00	48.3	
13/2/25	20:05	50.8		14/2/25	0:05	48.8		14/2/25	4:05	48.0	
13/2/25	20:10	50.9		14/2/25	0:10	49.0		14/2/25	4:10	48.3	
13/2/25	20:15	50.6		14/2/25	0:15	48.6		14/2/25	4:15	48.2	
13/2/25	20:20	51.2		14/2/25	0:20	49.2		14/2/25	4:20	48.2	
13/2/25	20:25	52.4		14/2/25	0:25	49.7		14/2/25	4:25	48.1	
13/2/25	20:30	51.3		14/2/25	0:30	48.8		14/2/25	4:30	48.6	
13/2/25	20:35	50.7		14/2/25	0:35	49.9		14/2/25	4:35	48.2	
13/2/25	20:40	49.9		14/2/25	0:40	48.4		14/2/25	4:40	48.4	
13/2/25	20:45	51.2	50.8	14/2/25	0:45	48.8	48.8	14/2/25	4:45	48.2	48.8
13/2/25	20:50	50.1		14/2/25	0:50	49.0		14/2/25	4:50	49.2	
13/2/25	20:55	50.1		14/2/25	0:55	49.2		14/2/25	4:55	47.9	
13/2/25	21:00	50.9		14/2/25	1:00	48.4		14/2/25	5:00	48.2	
13/2/25	21:05	50.4		14/2/25	1:05	49.8		14/2/25	5:05	48.3	
13/2/25	21:10	50.6		14/2/25	1:10	48.8		14/2/25	5:10	47.9	
13/2/25	21:15	51.0		14/2/25	1:15	49.5		14/2/25	5:15	48.5	
13/2/25	21:20	50.8		14/2/25	1:20	49.3		14/2/25	5:20	48.6	
13/2/25	21:25	50.8		14/2/25	1:25	48.6		14/2/25	5:25	49.1	
13/2/25	21:30	50.4		14/2/25	1:30	48.2		14/2/25	5:30	48.2	
13/2/25	21:35	50.2	50.4	14/2/25	1:35	48.9	48.2	14/2/25	5:35	49.7	50.4
13/2/25	21:40	50.7		14/2/25	1:40	48.5		14/2/25	5:40	48.6	
13/2/25	21:45	51.7		14/2/25	1:45	48.8		14/2/25	5:45	48.5	
13/2/25	21:50	51.4		14/2/25	1:50	48.2		14/2/25	5:50	48.7	
13/2/25	21:55	50.2		14/2/25	1:55	48.0		14/2/25	5:55	49.2	
13/2/25	22:00	50.6		14/2/25	2:00	49.1		14/2/25	6:00	49.4	
13/2/25	22:05	51.3		14/2/25	2:05	48.4		14/2/25	6:05	49.4	
13/2/25	22:10	51.2		14/2/25	2:10	48.1		14/2/25	6:10	49.7	
13/2/25	22:15	50.3		14/2/25	2:15	47.9		14/2/25	6:15	49.2	
13/2/25	22:20	50.1		14/2/25	2:20	48.0		14/2/25	6:20	49.4	
13/2/25	22:25	50.5	50.4	14/2/25	2:25	48.3	48.2	14/2/25	6:25	50.0	50.4
13/2/25	22:30	51.4		14/2/25	2:30	48.1		14/2/25	6:30	49.9	
13/2/25	22:35	51.1		14/2/25	2:35	47.9		14/2/25	6:35	51.0	
13/2/25	22:40	49.6		14/2/25	2:40	48.1		14/2/25	6:40	50.3	
13/2/25	22:45	49.3		14/2/25	2:45	48.3		14/2/25	6:45	51.1	
13/2/25	22:50	49.8		14/2/25	2:50	48.4		14/2/25	6:50	51.3	
13/2/25	22:55	49.2		14/2/25	2:55	48.4		14/2/25	6:55	51.2	
13/2/25	23:00	50.1		14/2/25	3:00	48.8		14/2/25	7:00	51.4	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd									
SITE LOCATION			NM3 EIA Gillman Barracks									
REPORT REFERENCE			11/02/2025 - 18/02/2025									
Start	14/2/25	7:05	Leq12h			54.7	Weighting			A		
End	14/2/25	19:00										
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m				
14/2/25	7:05	52.0	14/2/25	11:05	53.3	14/2/25	15:05	52.8				
14/2/25	7:10	55.2	14/2/25	11:10	52.2	14/2/25	15:10	52.1				
14/2/25	7:15	52.8	14/2/25	11:15	53.7	14/2/25	15:15	52.2				
14/2/25	7:20	55.1	14/2/25	11:20	57.3	14/2/25	15:20	53.1				
14/2/25	7:25	51.8	14/2/25	11:25	53.1	14/2/25	15:25	52.5				
14/2/25	7:30	52.1	14/2/25	11:30	58.2	14/2/25	15:30	52.8				
14/2/25	7:35	52.8	14/2/25	11:35	59.2	14/2/25	15:35	52.8				
14/2/25	7:40	52.8	14/2/25	11:40	56.4	14/2/25	15:40	51.8				
14/2/25	7:45	53.5	14/2/25	11:45	53.2	14/2/25	15:45	52.4				
14/2/25	7:50	57.7	14/2/25	11:50	51.7	14/2/25	15:50	52.6				
14/2/25	7:55	54.2	14/2/25	11:55	52.0	14/2/25	15:55	52.8				
14/2/25	8:00	52.8	14/2/25	12:00	52.1	14/2/25	16:00	53.2				
14/2/25	8:05	53.6	14/2/25	12:05	53.5	14/2/25	16:05	52.7				
14/2/25	8:10	54.7	14/2/25	12:10	52.7	14/2/25	16:10	52.7				
14/2/25	8:15	53.0	14/2/25	12:15	52.8	14/2/25	16:15	52.5				
14/2/25	8:20	57.3	14/2/25	12:20	52.9	14/2/25	16:20	51.3				
14/2/25	8:25	52.9	14/2/25	12:25	52.4	14/2/25	16:25	51.7				
14/2/25	8:30	52.3	14/2/25	12:30	52.6	14/2/25	16:30	52.3				
14/2/25	8:35	53.8	14/2/25	12:35	52.2	14/2/25	16:35	53.2				
14/2/25	8:40	53.5	14/2/25	12:40	52.1	14/2/25	16:40	51.6				
14/2/25	8:45	55.8	14/2/25	12:45	51.4	14/2/25	16:45	51.6				
14/2/25	8:50	52.7	14/2/25	12:50	51.7	14/2/25	16:50	53.6				
14/2/25	8:55	52.5	14/2/25	12:55	50.9	14/2/25	16:55	52.3				
14/2/25	9:00	53.4	14/2/25	13:00	52.3	14/2/25	17:00	52.9				
14/2/25	9:05	55.6	14/2/25	13:05	52.6	14/2/25	17:05	52.2				
14/2/25	9:10	55.2	14/2/25	13:10	51.3	14/2/25	17:10	52.0				
14/2/25	9:15	61.6	14/2/25	13:15	51.1	14/2/25	17:15	52.2				
14/2/25	9:20	57.2	14/2/25	13:20	55.7	14/2/25	17:20	52.2				
14/2/25	9:25	68.0	14/2/25	13:25	62.5	14/2/25	17:25	52.0				
14/2/25	9:30	53.5	14/2/25	13:30	56.2	14/2/25	17:30	52.9				
14/2/25	9:35	52.4	14/2/25	13:35	51.7	14/2/25	17:35	52.8				
14/2/25	9:40	53.9	14/2/25	13:40	51.2	14/2/25	17:40	51.8				
14/2/25	9:45	52.4	14/2/25	13:45	51.6	14/2/25	17:45	51.6				
14/2/25	9:50	53.9	14/2/25	13:50	51.6	14/2/25	17:50	52.4				
14/2/25	9:55	52.4	14/2/25	13:55	51.6	14/2/25	17:55	51.4				
14/2/25	10:00	52.5	14/2/25	14:00	52.0	14/2/25	18:00	51.8				
14/2/25	10:05	52.8	14/2/25	14:05	51.2	14/2/25	18:05	51.5				
14/2/25	10:10	52.9	14/2/25	14:10	52.3	14/2/25	18:10	52.0				
14/2/25	10:15	53.5	14/2/25	14:15	52.2	14/2/25	18:15	51.7				
14/2/25	10:20	59.7	14/2/25	14:20	53.4	14/2/25	18:20	51.8				
14/2/25	10:25	53.6	14/2/25	14:25	51.3	14/2/25	18:25	51.7				
14/2/25	10:30	58.2	14/2/25	14:30	51.3	14/2/25	18:30	51.9				
14/2/25	10:35	60.3	14/2/25	14:35	51.0	14/2/25	18:35	52.3				
14/2/25	10:40	59.7	14/2/25	14:40	58.0	14/2/25	18:40	52.3				
14/2/25	10:45	53.2	14/2/25	14:45	54.1	14/2/25	18:45	52.6				
14/2/25	10:50	52.4	14/2/25	14:50	52.1	14/2/25	18:50	51.8				
14/2/25	10:55	52.0	14/2/25	14:55	52.9	14/2/25	18:55	51.9				
14/2/25	11:00	53.3	14/2/25	15:00	52.3	14/2/25	19:00	52.4				

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM3 EIA Gillman Barracks							
REPORT REFERENCE				11/02/2025 - 18/02/2025							
Start	14/2/25	19:05		Leq12h	49.6			Weighting		A	
End	15/2/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
14/2/25	19:05	52.9	51.3	14/2/25	23:05	50.2	50.5	15/2/25	3:05	47.5	47.8
14/2/25	19:10	51.4		14/2/25	23:10	51.0		15/2/25	3:10	48.6	
14/2/25	19:15	51.7		14/2/25	23:15	52.4		15/2/25	3:15	47.6	
14/2/25	19:20	50.9		14/2/25	23:20	50.3		15/2/25	3:20	48.0	
14/2/25	19:25	50.8		14/2/25	23:25	50.2		15/2/25	3:25	47.7	
14/2/25	19:30	51.5		14/2/25	23:30	50.3		15/2/25	3:30	47.9	
14/2/25	19:35	50.7		14/2/25	23:35	50.2		15/2/25	3:35	48.0	
14/2/25	19:40	51.0		14/2/25	23:40	51.0		15/2/25	3:40	47.6	
14/2/25	19:45	51.0		14/2/25	23:45	49.9		15/2/25	3:45	47.7	
14/2/25	19:50	50.8		14/2/25	23:50	49.8		15/2/25	3:50	47.5	
14/2/25	19:55	51.5	51.2	14/2/25	23:55	49.5	49.4	15/2/25	3:55	47.3	47.8
14/2/25	20:00	50.8		14/2/25	0:00	50.4		15/2/25	4:00	47.5	
14/2/25	20:05	52.2		15/2/25	0:05	50.1		15/2/25	4:05	47.9	
14/2/25	20:10	52.0		15/2/25	0:10	49.9		15/2/25	4:10	47.8	
14/2/25	20:15	51.1		15/2/25	0:15	50.1		15/2/25	4:15	47.5	
14/2/25	20:20	50.5		15/2/25	0:20	49.2		15/2/25	4:20	47.8	
14/2/25	20:25	51.2		15/2/25	0:25	49.7		15/2/25	4:25	47.4	
14/2/25	20:30	52.5		15/2/25	0:30	48.8		15/2/25	4:30	47.6	
14/2/25	20:35	50.6		15/2/25	0:35	49.4		15/2/25	4:35	47.9	
14/2/25	20:40	50.6		15/2/25	0:40	49.1		15/2/25	4:40	47.9	
14/2/25	20:45	50.6	50.7	15/2/25	0:45	48.8	48.7	15/2/25	4:45	48.0	48.3
14/2/25	20:50	51.2		15/2/25	0:50	49.0		15/2/25	4:50	48.3	
14/2/25	20:55	50.0		15/2/25	0:55	49.2		15/2/25	4:55	47.5	
14/2/25	21:00	50.7		15/2/25	1:00	49.7		15/2/25	5:00	47.6	
14/2/25	21:05	51.6		15/2/25	1:05	48.6		15/2/25	5:05	48.0	
14/2/25	21:10	50.8		15/2/25	1:10	49.4		15/2/25	5:10	47.6	
14/2/25	21:15	51.3		15/2/25	1:15	48.6		15/2/25	5:15	48.1	
14/2/25	21:20	50.2		15/2/25	1:20	48.4		15/2/25	5:20	48.2	
14/2/25	21:25	50.2		15/2/25	1:25	48.5		15/2/25	5:25	48.0	
14/2/25	21:30	50.4		15/2/25	1:30	49.2		15/2/25	5:30	48.1	
14/2/25	21:35	50.6	50.5	15/2/25	1:35	47.9	48.1	15/2/25	5:35	49.5	49.0
14/2/25	21:40	49.8		15/2/25	1:40	48.5		15/2/25	5:40	48.7	
14/2/25	21:45	50.3		15/2/25	1:45	48.8		15/2/25	5:45	48.5	
14/2/25	21:50	51.3		15/2/25	1:50	49.8		15/2/25	5:50	48.0	
14/2/25	21:55	50.6		15/2/25	1:55	48.7		15/2/25	5:55	48.3	
14/2/25	22:00	50.6		15/2/25	2:00	48.1		15/2/25	6:00	48.7	
14/2/25	22:05	50.9		15/2/25	2:05	48.0		15/2/25	6:05	48.1	
14/2/25	22:10	50.1		15/2/25	2:10	48.3		15/2/25	6:10	48.6	
14/2/25	22:15	50.2		15/2/25	2:15	48.7		15/2/25	6:15	48.3	
14/2/25	22:20	50.9		15/2/25	2:20	49.3		15/2/25	6:20	49.1	
14/2/25	22:25	50.1	50.5	15/2/25	2:25	48.2	48.1	15/2/25	6:25	48.6	49.0
14/2/25	22:30	50.4		15/2/25	2:30	48.3		15/2/25	6:30	48.5	
14/2/25	22:35	51.2		15/2/25	2:35	47.9		15/2/25	6:35	49.1	
14/2/25	22:40	50.8		15/2/25	2:40	47.6		15/2/25	6:40	48.7	
14/2/25	22:45	50.4		15/2/25	2:45	47.7		15/2/25	6:45	49.3	
14/2/25	22:50	51.1		15/2/25	2:50	47.7		15/2/25	6:50	49.3	
14/2/25	22:55	49.7		15/2/25	2:55	48.0		15/2/25	6:55	48.9	
14/2/25	23:00	50.4		15/2/25	3:00	47.6		15/2/25	7:00	50.5	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM3 EIA Gillman Barracks						
REPORT REFERENCE			11/02/2025 - 18/02/2025						
Start	15/2/25	7:05	Leq12h	55.8			Weighting		A
End	15/2/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m		Date	Time	Leq5m
15/2/25	7:05	50.4	15/2/25	11:05	52.3		15/2/25	15:05	61.3
15/2/25	7:10	51.3	15/2/25	11:10	53.2		15/2/25	15:10	62.4
15/2/25	7:15	50.9	15/2/25	11:15	56.7		15/2/25	15:15	61.9
15/2/25	7:20	50.7	15/2/25	11:20	53.3		15/2/25	15:20	65.7
15/2/25	7:25	52.3	15/2/25	11:25	52.0		15/2/25	15:25	62.2
15/2/25	7:30	51.3	15/2/25	11:30	52.4		15/2/25	15:30	56.7
15/2/25	7:35	51.1	15/2/25	11:35	52.5		15/2/25	15:35	56.8
15/2/25	7:40	50.9	15/2/25	11:40	52.7		15/2/25	15:40	55.4
15/2/25	7:45	51.9	15/2/25	11:45	52.0		15/2/25	15:45	57.2
15/2/25	7:50	51.4	15/2/25	11:50	52.2		15/2/25	15:50	57.0
15/2/25	7:55	51.7	15/2/25	11:55	51.3		15/2/25	15:55	55.3
15/2/25	8:00	50.8	15/2/25	12:00	52.6		15/2/25	16:00	64.0
15/2/25	8:05	51.5	15/2/25	12:05	51.6		15/2/25	16:05	52.8
15/2/25	8:10	51.7	15/2/25	12:10	51.3		15/2/25	16:10	58.0
15/2/25	8:15	53.2	15/2/25	12:15	53.8		15/2/25	16:15	55.1
15/2/25	8:20	51.4	15/2/25	12:20	54.3		15/2/25	16:20	64.6
15/2/25	8:25	52.4	15/2/25	12:25	51.7		15/2/25	16:25	66.4
15/2/25	8:30	53.3	15/2/25	12:30	51.6		15/2/25	16:30	63.9
15/2/25	8:35	51.6	15/2/25	12:35	51.8		15/2/25	16:35	63.4
15/2/25	8:40	51.5	15/2/25	12:40	51.0		15/2/25	16:40	62.0
15/2/25	8:45	51.5	15/2/25	12:45	51.1		15/2/25	16:45	61.6
15/2/25	8:50	52.1	15/2/25	12:50	53.1		15/2/25	16:50	59.5
15/2/25	8:55	52.9	15/2/25	12:55	52.1		15/2/25	16:55	54.5
15/2/25	9:00	52.3	15/2/25	13:00	51.0		15/2/25	17:00	53.2
15/2/25	9:05	52.7	15/2/25	13:05	54.5		15/2/25	17:05	52.5
15/2/25	9:10	53.6	15/2/25	13:10	51.8		15/2/25	17:10	53.0
15/2/25	9:15	52.6	15/2/25	13:15	51.6		15/2/25	17:15	54.7
15/2/25	9:20	53.9	15/2/25	13:20	52.1		15/2/25	17:20	53.5
15/2/25	9:25	53.3	15/2/25	13:25	51.4		15/2/25	17:25	53.5
15/2/25	9:30	52.4	15/2/25	13:30	51.2		15/2/25	17:30	54.1
15/2/25	9:35	52.6	15/2/25	13:35	51.5		15/2/25	17:35	52.7
15/2/25	9:40	52.8	15/2/25	13:40	52.5		15/2/25	17:40	52.2
15/2/25	9:45	52.8	15/2/25	13:45	53.1		15/2/25	17:45	52.2
15/2/25	9:50	52.5	15/2/25	13:50	52.9		15/2/25	17:50	52.2
15/2/25	9:55	54.1	15/2/25	13:55	53.2		15/2/25	17:55	52.0
15/2/25	10:00	52.4	15/2/25	14:00	54.0		15/2/25	18:00	51.1
15/2/25	10:05	52.1	15/2/25	14:05	53.1		15/2/25	18:05	51.4
15/2/25	10:10	52.3	15/2/25	14:10	51.9		15/2/25	18:10	50.4
15/2/25	10:15	52.9	15/2/25	14:15	53.0		15/2/25	18:15	50.8
15/2/25	10:20	52.8	15/2/25	14:20	53.3		15/2/25	18:20	50.8
15/2/25	10:25	53.3	15/2/25	14:25	53.8		15/2/25	18:25	58.4
15/2/25	10:30	53.9	15/2/25	14:30	53.6		15/2/25	18:30	50.7
15/2/25	10:35	53.8	15/2/25	14:35	52.2		15/2/25	18:35	51.3
15/2/25	10:40	53.4	15/2/25	14:40	52.4		15/2/25	18:40	52.3
15/2/25	10:45	53.1	15/2/25	14:45	54.4		15/2/25	18:45	51.1
15/2/25	10:50	53.5	15/2/25	14:50	54.8		15/2/25	18:50	50.9
15/2/25	10:55	53.1	15/2/25	14:55	51.0		15/2/25	18:55	51.0
15/2/25	11:00	53.2	15/2/25	15:00	55.9		15/2/25	19:00	50.7

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM3 EIA Gillman Barracks							
REPORT REFERENCE				11/02/2025 - 18/02/2025							
Start	15/2/25	19:05		Leq12h	49.1			Weighting		A	
End	16/2/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
15/2/25	19:05	50.4	50.3	15/2/25	23:05	49.0	49.6	16/2/25	3:05	48.4	48.4
15/2/25	19:10	50.5		15/2/25	23:10	49.6		16/2/25	3:10	48.3	
15/2/25	19:15	51.1		15/2/25	23:15	49.4		16/2/25	3:15	48.5	
15/2/25	19:20	50.5		15/2/25	23:20	49.7		16/2/25	3:20	48.6	
15/2/25	19:25	50.1		15/2/25	23:25	49.5		16/2/25	3:25	48.4	
15/2/25	19:30	50.6		15/2/25	23:30	49.4		16/2/25	3:30	47.8	
15/2/25	19:35	50.0		15/2/25	23:35	49.8		16/2/25	3:35	47.9	
15/2/25	19:40	50.0		15/2/25	23:40	49.8		16/2/25	3:40	48.5	
15/2/25	19:45	49.7		15/2/25	23:45	49.5		16/2/25	3:45	49.1	
15/2/25	19:50	49.9		15/2/25	23:50	49.6		16/2/25	3:50	48.1	
15/2/25	19:55	50.6	50.1	15/2/25	23:55	50.2	48.9	16/2/25	3:55	48.3	48.2
15/2/25	20:00	50.0		15/2/25	0:00	49.8		16/2/25	4:00	48.3	
15/2/25	20:05	50.0		16/2/25	0:05	49.0		16/2/25	4:05	48.2	
15/2/25	20:10	49.4		16/2/25	0:10	48.8		16/2/25	4:10	48.1	
15/2/25	20:15	51.1		16/2/25	0:15	48.9		16/2/25	4:15	48.2	
15/2/25	20:20	50.1		16/2/25	0:20	49.1		16/2/25	4:20	48.6	
15/2/25	20:25	50.2		16/2/25	0:25	49.8		16/2/25	4:25	48.4	
15/2/25	20:30	49.5		16/2/25	0:30	49.0		16/2/25	4:30	48.9	
15/2/25	20:35	50.5		16/2/25	0:35	48.8		16/2/25	4:35	48.3	
15/2/25	20:40	50.4		16/2/25	0:40	49.5		16/2/25	4:40	48.2	
15/2/25	20:45	50.1	49.8	16/2/25	0:45	48.8	48.7	16/2/25	4:45	48.0	47.7
15/2/25	20:50	49.6		16/2/25	0:50	48.5		16/2/25	4:50	48.2	
15/2/25	20:55	50.2		16/2/25	0:55	48.3		16/2/25	4:55	48.2	
15/2/25	21:00	49.7		16/2/25	1:00	48.4		16/2/25	5:00	47.2	
15/2/25	21:05	50.1		16/2/25	1:05	48.1		16/2/25	5:05	47.1	
15/2/25	21:10	49.8		16/2/25	1:10	48.3		16/2/25	5:10	47.3	
15/2/25	21:15	50.0		16/2/25	1:15	48.8		16/2/25	5:15	47.3	
15/2/25	21:20	49.6		16/2/25	1:20	48.7		16/2/25	5:20	47.6	
15/2/25	21:25	49.4		16/2/25	1:25	49.5		16/2/25	5:25	47.6	
15/2/25	21:30	49.9		16/2/25	1:30	49.1		16/2/25	5:30	47.4	
15/2/25	21:35	50.4	49.9	16/2/25	1:35	48.9	48.4	16/2/25	5:35	50.3	48.1
15/2/25	21:40	49.2		16/2/25	1:40	48.8		16/2/25	5:40	47.4	
15/2/25	21:45	49.2		16/2/25	1:45	48.9		16/2/25	5:45	47.1	
15/2/25	21:50	49.8		16/2/25	1:50	48.5		16/2/25	5:50	47.0	
15/2/25	21:55	50.1		16/2/25	1:55	48.6		16/2/25	5:55	47.5	
15/2/25	22:00	49.8		16/2/25	2:00	48.2		16/2/25	6:00	47.3	
15/2/25	22:05	49.3		16/2/25	2:05	48.5		16/2/25	6:05	47.6	
15/2/25	22:10	49.6		16/2/25	2:10	48.6		16/2/25	6:10	47.2	
15/2/25	22:15	49.5		16/2/25	2:15	48.4		16/2/25	6:15	47.4	
15/2/25	22:20	49.5		16/2/25	2:20	49.0		16/2/25	6:20	48.3	
15/2/25	22:25	51.2	49.9	16/2/25	2:25	48.6	48.4	16/2/25	6:25	47.9	
15/2/25	22:30	50.7		16/2/25	2:30	48.2		16/2/25	6:30	47.6	
15/2/25	22:35	49.2		16/2/25	2:35	47.9		16/2/25	6:35	48.5	
15/2/25	22:40	50.2		16/2/25	2:40	47.9		16/2/25	6:40	48.4	
15/2/25	22:45	50.1		16/2/25	2:45	48.2		16/2/25	6:45	48.2	
15/2/25	22:50	49.6		16/2/25	2:50	49.0		16/2/25	6:50	48.5	
15/2/25	22:55	49.5		16/2/25	2:55	48.0		16/2/25	6:55	48.6	
15/2/25	23:00	49.6		16/2/25	3:00	48.1		16/2/25	7:00	49.0	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd									
SITE LOCATION			NM3 EIA Gillman Barracks									
REPORT REFERENCE			11/02/2025 - 18/02/2025									
Start	16/2/25		7:05	Leq12h			51.2		Weighting		A	
End	16/2/25		19:00									
Date	Time	Leq5m		Date	Time	Leq5m		Date	Time	Leq5m		
16/2/25	7:05	49.4		16/2/25	11:05	50.6		16/2/25	15:05	52.8		
16/2/25	7:10	51.2		16/2/25	11:10	50.7		16/2/25	15:10	52.2		
16/2/25	7:15	50.0		16/2/25	11:15	50.3		16/2/25	15:15	51.8		
16/2/25	7:20	49.8		16/2/25	11:20	50.8		16/2/25	15:20	50.9		
16/2/25	7:25	50.8		16/2/25	11:25	50.5		16/2/25	15:25	50.8		
16/2/25	7:30	49.6		16/2/25	11:30	51.0		16/2/25	15:30	52.3		
16/2/25	7:35	49.6		16/2/25	11:35	50.6		16/2/25	15:35	51.6		
16/2/25	7:40	49.8		16/2/25	11:40	51.8		16/2/25	15:40	50.8		
16/2/25	7:45	49.8		16/2/25	11:45	51.3		16/2/25	15:45	52.0		
16/2/25	7:50	49.7		16/2/25	11:50	51.2		16/2/25	15:50	51.8		
16/2/25	7:55	51.1		16/2/25	11:55	50.1		16/2/25	15:55	50.5		
16/2/25	8:00	50.4		16/2/25	12:00	50.8		16/2/25	16:00	52.3		
16/2/25	8:05	50.0		16/2/25	12:05	51.2		16/2/25	16:05	52.0		
16/2/25	8:10	50.2		16/2/25	12:10	51.1		16/2/25	16:10	52.3		
16/2/25	8:15	50.8		16/2/25	12:15	50.6		16/2/25	16:15	52.9		
16/2/25	8:20	50.7		16/2/25	12:20	50.9		16/2/25	16:20	52.4		
16/2/25	8:25	50.1		16/2/25	12:25	50.3		16/2/25	16:25	51.1		
16/2/25	8:30	51.2		16/2/25	12:30	50.9		16/2/25	16:30	50.9		
16/2/25	8:35	50.5		16/2/25	12:35	50.9		16/2/25	16:35	50.0		
16/2/25	8:40	54.9		16/2/25	12:40	51.1		16/2/25	16:40	51.5		
16/2/25	8:45	51.2		16/2/25	12:45	52.3		16/2/25	16:45	51.8		
16/2/25	8:50	49.8		16/2/25	12:50	52.1		16/2/25	16:50	51.0		
16/2/25	8:55	50.2		16/2/25	12:55	51.5		16/2/25	16:55	51.2		
16/2/25	9:00	50.0		16/2/25	13:00	50.0		16/2/25	17:00	52.0		
16/2/25	9:05	50.8		16/2/25	13:05	50.9		16/2/25	17:05	50.8		
16/2/25	9:10	51.2		16/2/25	13:10	49.7		16/2/25	17:10	50.7		
16/2/25	9:15	50.8		16/2/25	13:15	50.8		16/2/25	17:15	51.0		
16/2/25	9:20	50.6		16/2/25	13:20	50.6		16/2/25	17:20	51.5		
16/2/25	9:25	51.7		16/2/25	13:25	50.5		16/2/25	17:25	51.2		
16/2/25	9:30	50.8		16/2/25	13:30	51.5		16/2/25	17:30	51.3		
16/2/25	9:35	51.4		16/2/25	13:35	52.6		16/2/25	17:35	51.0		
16/2/25	9:40	50.9		16/2/25	13:40	53.4		16/2/25	17:40	50.6		
16/2/25	9:45	51.5		16/2/25	13:45	52.4		16/2/25	17:45	50.4		
16/2/25	9:50	51.8		16/2/25	13:50	51.4		16/2/25	17:50	50.9		
16/2/25	9:55	51.8		16/2/25	13:55	51.0		16/2/25	17:55	50.8		
16/2/25	10:00	51.0		16/2/25	14:00	51.2		16/2/25	18:00	50.1		
16/2/25	10:05	52.0		16/2/25	14:05	51.3		16/2/25	18:05	50.6		
16/2/25	10:10	51.1		16/2/25	14:10	51.4		16/2/25	18:10	50.1		
16/2/25	10:15	51.2		16/2/25	14:15	51.8		16/2/25	18:15	51.6		
16/2/25	10:20	51.8		16/2/25	14:20	52.8		16/2/25	18:20	51.6		
16/2/25	10:25	51.9		16/2/25	14:25	51.9		16/2/25	18:25	51.7		
16/2/25	10:30	52.3		16/2/25	14:30	52.0		16/2/25	18:30	50.0		
16/2/25	10:35	51.7		16/2/25	14:35	53.2		16/2/25	18:35	50.9		
16/2/25	10:40	52.4		16/2/25	14:40	51.8		16/2/25	18:40	50.3		
16/2/25	10:45	50.7		16/2/25	14:45	51.4		16/2/25	18:45	50.9		
16/2/25	10:50	51.1		16/2/25	14:50	51.7		16/2/25	18:50	51.7		
16/2/25	10:55	51.6		16/2/25	14:55	51.4		16/2/25	18:55	51.4		
16/2/25	11:00	50.8		16/2/25	15:00	51.6		16/2/25	19:00	51.5		

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM3 EIA Gillman Barracks							
REPORT REFERENCE				11/02/2025 - 18/02/2025							
Start	16/2/25	19:05		Leq12h	49.1			Weighting		A	
End	17/2/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
16/2/25	19:05	50.5		16/2/25	23:05	49.1		17/2/25	3:05	47.6	
16/2/25	19:10	50.8		16/2/25	23:10	48.4		17/2/25	3:10	47.6	
16/2/25	19:15	51.0		16/2/25	23:15	49.3		17/2/25	3:15	47.5	
16/2/25	19:20	50.2		16/2/25	23:20	48.6		17/2/25	3:20	47.9	
16/2/25	19:25	50.1		16/2/25	23:25	48.8		17/2/25	3:25	47.6	
16/2/25	19:30	50.6		16/2/25	23:30	48.9		17/2/25	3:30	47.7	
16/2/25	19:35	50.0		16/2/25	23:35	48.9		17/2/25	3:35	47.4	
16/2/25	19:40	50.5		16/2/25	23:40	48.9		17/2/25	3:40	48.1	
16/2/25	19:45	50.1		16/2/25	23:45	48.2		17/2/25	3:45	48.0	
16/2/25	19:50	50.2		16/2/25	23:50	48.3		17/2/25	3:50	48.6	
16/2/25	19:55	50.2		16/2/25	23:55	48.3		17/2/25	3:55	47.6	
16/2/25	20:00	49.9	50.4	16/2/25	0:00	48.4	48.7	17/2/25	4:00	49.1	47.9
16/2/25	20:05	49.9		17/2/25	0:05	48.2		17/2/25	4:05	48.1	
16/2/25	20:10	50.0		17/2/25	0:10	49.4		17/2/25	4:10	47.7	
16/2/25	20:15	50.2		17/2/25	0:15	48.2		17/2/25	4:15	47.6	
16/2/25	20:20	51.0		17/2/25	0:20	48.1		17/2/25	4:20	47.6	
16/2/25	20:25	50.4		17/2/25	0:25	48.3		17/2/25	4:25	47.7	
16/2/25	20:30	50.1		17/2/25	0:30	49.2		17/2/25	4:30	47.7	
16/2/25	20:35	50.1		17/2/25	0:35	48.7		17/2/25	4:35	47.9	
16/2/25	20:40	49.6		17/2/25	0:40	48.6		17/2/25	4:40	47.8	
16/2/25	20:45	49.7		17/2/25	0:45	48.2		17/2/25	4:45	47.5	
16/2/25	20:50	50.3		17/2/25	0:50	48.4		17/2/25	4:50	48.3	
16/2/25	20:55	50.5		17/2/25	0:55	48.0		17/2/25	4:55	47.9	
16/2/25	21:00	49.6	50.1	17/2/25	1:00	48.2	48.5	17/2/25	5:00	47.8	47.8
16/2/25	21:05	49.8		17/2/25	1:05	48.0		17/2/25	5:05	47.7	
16/2/25	21:10	50.0		17/2/25	1:10	48.1		17/2/25	5:10	48.0	
16/2/25	21:15	49.2		17/2/25	1:15	48.0		17/2/25	5:15	47.8	
16/2/25	21:20	49.8		17/2/25	1:20	47.9		17/2/25	5:20	47.7	
16/2/25	21:25	50.1		17/2/25	1:25	47.9		17/2/25	5:25	49.0	
16/2/25	21:30	50.4		17/2/25	1:30	47.8		17/2/25	5:30	48.3	
16/2/25	21:35	50.5		17/2/25	1:35	48.5		17/2/25	5:35	48.0	
16/2/25	21:40	50.0		17/2/25	1:40	48.2		17/2/25	5:40	48.1	
16/2/25	21:45	49.4		17/2/25	1:45	47.8		17/2/25	5:45	49.3	
16/2/25	21:50	51.1		17/2/25	1:50	47.7		17/2/25	5:50	49.1	
16/2/25	21:55	49.3		17/2/25	1:55	47.9		17/2/25	5:55	49.0	
16/2/25	22:00	49.9	50.0	17/2/25	2:00	48.3	48.0	17/2/25	6:00	48.6	48.4
16/2/25	22:05	49.3		17/2/25	2:05	48.5		17/2/25	6:05	48.5	
16/2/25	22:10	49.4		17/2/25	2:10	48.4		17/2/25	6:10	49.2	
16/2/25	22:15	49.3		17/2/25	2:15	47.9		17/2/25	6:15	48.8	
16/2/25	22:20	49.3		17/2/25	2:20	48.5		17/2/25	6:20	49.0	
16/2/25	22:25	49.5		17/2/25	2:25	47.9		17/2/25	6:25	49.5	
16/2/25	22:30	50.2		17/2/25	2:30	47.7		17/2/25	6:30	50.2	
16/2/25	22:35	49.5		17/2/25	2:35	48.2		17/2/25	6:35	50.8	
16/2/25	22:40	48.9		17/2/25	2:40	47.7		17/2/25	6:40	50.1	
16/2/25	22:45	49.6		17/2/25	2:45	48.2		17/2/25	6:45	51.1	
16/2/25	22:50	49.2		17/2/25	2:50	48.8		17/2/25	6:50	50.7	
16/2/25	22:55	50.4		17/2/25	2:55	48.0		17/2/25	6:55	50.3	
16/2/25	23:00	50.0	49.6	17/2/25	3:00	47.9	48.2	17/2/25	7:00	51.2	50.0

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd									
SITE LOCATION			NM3 EIA Gillman Barracks									
REPORT REFERENCE			11/02/2025 - 18/02/2025									
Start	17/2/25	7:05	Leq12h			54.8	Weighting			A		
End	17/2/25	19:00										
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m				
17/2/25	7:05	51.2	17/2/25	11:05	51.8	17/2/25	15:05	51.2				
17/2/25	7:10	52.4	17/2/25	11:10	59.4	17/2/25	15:10	52.0				
17/2/25	7:15	52.5	17/2/25	11:15	53.3	17/2/25	15:15	51.5				
17/2/25	7:20	52.8	17/2/25	11:20	57.0	17/2/25	15:20	55.1				
17/2/25	7:25	52.4	17/2/25	11:25	54.6	17/2/25	15:25	54.6				
17/2/25	7:30	53.2	17/2/25	11:30	57.1	17/2/25	15:30	54.2				
17/2/25	7:35	51.8	17/2/25	11:35	58.3	17/2/25	15:35	51.2				
17/2/25	7:40	52.2	17/2/25	11:40	56.0	17/2/25	15:40	51.2				
17/2/25	7:45	52.2	17/2/25	11:45	52.6	17/2/25	15:45	56.4				
17/2/25	7:50	52.2	17/2/25	11:50	53.2	17/2/25	15:50	62.6				
17/2/25	7:55	54.0	17/2/25	11:55	51.8	17/2/25	15:55	66.6				
17/2/25	8:00	53.1	17/2/25	12:00	52.2	17/2/25	16:00	56.6				
17/2/25	8:05	56.2	17/2/25	12:05	52.0	17/2/25	16:05	52.5				
17/2/25	8:10	52.2	17/2/25	12:10	53.7	17/2/25	16:10	52.3				
17/2/25	8:15	52.5	17/2/25	12:15	52.5	17/2/25	16:15	52.8				
17/2/25	8:20	53.9	17/2/25	12:20	52.7	17/2/25	16:20	54.2				
17/2/25	8:25	52.6	17/2/25	12:25	52.7	17/2/25	16:25	53.8				
17/2/25	8:30	52.8	17/2/25	12:30	61.8	17/2/25	16:30	54.4				
17/2/25	8:35	53.2	17/2/25	12:35	60.8	17/2/25	16:35	57.4				
17/2/25	8:40	52.5	17/2/25	12:40	51.3	17/2/25	16:40	53.8				
17/2/25	8:45	52.3	17/2/25	12:45	50.8	17/2/25	16:45	52.8				
17/2/25	8:50	53.1	17/2/25	12:50	50.8	17/2/25	16:50	53.5				
17/2/25	8:55	52.7	17/2/25	12:55	51.4	17/2/25	16:55	53.7				
17/2/25	9:00	52.7	17/2/25	13:00	50.7	17/2/25	17:00	52.2				
17/2/25	9:05	52.4	17/2/25	13:05	51.8	17/2/25	17:05	51.8				
17/2/25	9:10	52.4	17/2/25	13:10	51.3	17/2/25	17:10	51.6				
17/2/25	9:15	55.5	17/2/25	13:15	52.6	17/2/25	17:15	52.3				
17/2/25	9:20	53.1	17/2/25	13:20	51.5	17/2/25	17:20	52.3				
17/2/25	9:25	51.9	17/2/25	13:25	52.0	17/2/25	17:25	52.0				
17/2/25	9:30	52.4	17/2/25	13:30	53.2	17/2/25	17:30	52.5				
17/2/25	9:35	51.6	17/2/25	13:35	50.8	17/2/25	17:35	53.2				
17/2/25	9:40	53.2	17/2/25	13:40	51.5	17/2/25	17:40	52.3				
17/2/25	9:45	54.8	17/2/25	13:45	52.3	17/2/25	17:45	52.2				
17/2/25	9:50	52.1	17/2/25	13:50	51.4	17/2/25	17:50	52.0				
17/2/25	9:55	52.3	17/2/25	13:55	51.6	17/2/25	17:55	52.2				
17/2/25	10:00	51.8	17/2/25	14:00	51.2	17/2/25	18:00	52.5				
17/2/25	10:05	53.3	17/2/25	14:05	51.0	17/2/25	18:05	52.1				
17/2/25	10:10	54.0	17/2/25	14:10	51.8	17/2/25	18:10	52.0				
17/2/25	10:15	52.2	17/2/25	14:15	53.8	17/2/25	18:15	52.3				
17/2/25	10:20	52.0	17/2/25	14:20	56.6	17/2/25	18:20	52.5				
17/2/25	10:25	65.1	17/2/25	14:25	50.8	17/2/25	18:25	53.2				
17/2/25	10:30	57.1	17/2/25	14:30	51.5	17/2/25	18:30	52.4				
17/2/25	10:35	56.4	17/2/25	14:35	63.1	17/2/25	18:35	51.4				
17/2/25	10:40	53.7	17/2/25	14:40	51.1	17/2/25	18:40	51.5				
17/2/25	10:45	51.6	17/2/25	14:45	51.3	17/2/25	18:45	51.2				
17/2/25	10:50	52.7	17/2/25	14:50	51.2	17/2/25	18:50	51.7				
17/2/25	10:55	52.2	17/2/25	14:55	50.9	17/2/25	18:55	51.9				
17/2/25	11:00	57.1	17/2/25	15:00	51.6	17/2/25	19:00	53.2				

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM3 EIA Gillman Barracks								
REPORT REFERENCE			11/02/2025 - 18/02/2025								
Start	17/2/25		19:05	Leq12h		50.6		Weighting		A	
End	18/2/25		7:00								
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
17/2/25	19:05	52.3	54.7	17/2/25	23:05	50.2	49.5	18/2/25	3:05	47.8	47.9
17/2/25	19:10	52.0		17/2/25	23:10	50.6		18/2/25	3:10	47.5	
17/2/25	19:15	55.7		17/2/25	23:15	49.5		18/2/25	3:15	47.8	
17/2/25	19:20	61.6		17/2/25	23:20	49.7		18/2/25	3:20	48.0	
17/2/25	19:25	50.8		17/2/25	23:25	49.4		18/2/25	3:25	47.8	
17/2/25	19:30	52.2		17/2/25	23:30	49.1		18/2/25	3:30	48.2	
17/2/25	19:35	54.4		17/2/25	23:35	49.2		18/2/25	3:35	48.2	
17/2/25	19:40	51.2		17/2/25	23:40	49.7		18/2/25	3:40	47.6	
17/2/25	19:45	52.4		17/2/25	23:45	49.2		18/2/25	3:45	48.0	
17/2/25	19:50	53.8		17/2/25	23:50	49.2		18/2/25	3:50	48.6	
17/2/25	19:55	52.0	53.2	17/2/25	23:55	49.0	49.4	18/2/25	3:55	48.0	48.1
17/2/25	20:00	52.0		17/2/25	0:00	49.2		18/2/25	4:00	47.7	
17/2/25	20:05	51.8		18/2/25	0:05	49.2		18/2/25	4:05	47.8	
17/2/25	20:10	51.6		18/2/25	0:10	49.1		18/2/25	4:10	47.9	
17/2/25	20:15	51.2		18/2/25	0:15	48.8		18/2/25	4:15	47.9	
17/2/25	20:20	51.4		18/2/25	0:20	48.8		18/2/25	4:20	48.0	
17/2/25	20:25	52.4		18/2/25	0:25	50.8		18/2/25	4:25	48.5	
17/2/25	20:30	59.7		18/2/25	0:30	51.2		18/2/25	4:30	48.4	
17/2/25	20:35	52.2		18/2/25	0:35	50.9		18/2/25	4:35	47.6	
17/2/25	20:40	51.4		18/2/25	0:40	49.6		18/2/25	4:40	48.0	
17/2/25	20:45	51.6	51.6	18/2/25	0:45	48.8	48.1	18/2/25	4:45	48.8	48.6
17/2/25	20:50	51.0		18/2/25	0:50	48.5		18/2/25	4:50	47.8	
17/2/25	20:55	51.5		18/2/25	0:55	48.0		18/2/25	4:55	48.0	
17/2/25	21:00	51.1		18/2/25	1:00	48.1		18/2/25	5:00	48.1	
17/2/25	21:05	51.1		18/2/25	1:05	47.8		18/2/25	5:05	47.9	
17/2/25	21:10	50.2		18/2/25	1:10	48.4		18/2/25	5:10	47.9	
17/2/25	21:15	50.7		18/2/25	1:15	48.4		18/2/25	5:15	48.7	
17/2/25	21:20	50.6		18/2/25	1:20	48.0		18/2/25	5:20	48.7	
17/2/25	21:25	50.1		18/2/25	1:25	48.1		18/2/25	5:25	47.9	
17/2/25	21:30	50.0		18/2/25	1:30	49.2		18/2/25	5:30	49.2	
17/2/25	21:35	50.7	50.1	18/2/25	1:35	48.0	47.8	18/2/25	5:35	48.9	50.9
17/2/25	21:40	50.4		18/2/25	1:40	48.2		18/2/25	5:40	48.0	
17/2/25	21:45	56.8		18/2/25	1:45	47.8		18/2/25	5:45	48.4	
17/2/25	21:50	51.1		18/2/25	1:50	47.8		18/2/25	5:50	48.7	
17/2/25	21:55	50.4		18/2/25	1:55	47.8		18/2/25	5:55	49.0	
17/2/25	22:00	50.8		18/2/25	2:00	47.8		18/2/25	6:00	49.1	
17/2/25	22:05	50.2		18/2/25	2:05	47.5		18/2/25	6:05	49.4	
17/2/25	22:10	49.7		18/2/25	2:10	47.7		18/2/25	6:10	49.4	
17/2/25	22:15	49.6		18/2/25	2:15	47.8		18/2/25	6:15	49.5	
17/2/25	22:20	49.2		18/2/25	2:20	47.6		18/2/25	6:20	50.0	
17/2/25	22:25	51.4	50.1	18/2/25	2:25	48.2	47.8	18/2/25	6:25	50.2	50.9
17/2/25	22:30	51.1		18/2/25	2:30	48.2		18/2/25	6:30	50.8	
17/2/25	22:35	50.1		18/2/25	2:35	48.0		18/2/25	6:35	51.2	
17/2/25	22:40	50.5		18/2/25	2:40	47.7		18/2/25	6:40	51.7	
17/2/25	22:45	49.6		18/2/25	2:45	47.8		18/2/25	6:45	51.2	
17/2/25	22:50	49.1		18/2/25	2:50	47.9		18/2/25	6:50	51.6	
17/2/25	22:55	49.7		18/2/25	2:55	47.8		18/2/25	6:55	51.3	
17/2/25	23:00	49.8		18/2/25	3:00	47.9		18/2/25	7:00	52.6	

CONFIDENTIAL

BASELINE NOISE SURVEY REPORT
NOISE MONITORING ENVIRONMENTAL WORK

REPORT REFERENCE NO: - 25022508/nms/ch2m/NM2GB/NM4

For

CH2M HILL SINGAPORE PTE LTD
150 Beach Road, Gateway West 34th Floor, Singapore 189720

Project Location:
NM4 EIA Gillman Barracks

Attention:
Ms Alicia Wong

Project Title.:
Baseline Noise Survey @ NM4 EIA Gillman Barracks

Monitoring Location:
NM4 (RoofTop of 88A Telok Blangah St 31)

Date of Monitoring:
11 February 2025 - 18 February 2025

Date of Report:
25 February 2025

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	TABLE OF CONTENT	PAGE
1.0	INTRODUCTION	3
2.0	NOISE SURVEY CONDITION	3
3.0	INSTRUMENTS	4
4.0	NOISE SURVEY TERMS	5
5.0	SURVEYING LOCATIONS	6
6.0	NOISE SURVEY RESULTS	7
7.0	SUMMARY	12
8.0	CONFIRMATION	12
	APPENDIX	
	APPENDIX A: INSTRUMENT LAYOUT PLAN	13
	APPENDIX B: NEA CONSTRUCTION NOISE CONTROL GUIDELINE	14
	APPENDIX C: NOISE MONITORING OFFICER CERTIFICATES	15
	APPENDIX D: INSTRUMENT CALIBRATION CERTIFICATES	17
	APPENDIX E: NOISE DATA	19

1.0 INTRODUCTION

ENSSCOM PTE LTD was commissioned by:

CH2M HILL Singapore Pte Ltd
150 Beach Road, Gateway West 34th Floor, Singapore 189720

The purpose of this survey was to assess the current acoustical environment to establish the baseline background noise level generated before start of construction activities for
Project Title - Baseline Noise Survey @ NM4 EIA Gillman Barracks

The survey is conducted in accordance to the Construction Noise control Guideline on NEA's permissible noise levels for construction sites and industrial premises.

2.0 NOISE SURVEY CONDITION

Report Reference No: 25022508/nms/ch2m/NM2GB/NM4

Date of Report: 25-Feb-2025

Survey On: 11-Feb-2025 (0700hrs) to 18-Feb-2025 (0700hrs)

Operating Condition of Site: All operations were under normal conditions during the noise survey. Construction activities have not begun during period of noise monitoring.

Noise survey was conducted using accepted standard procedures and appropriate sound measuring equipment, which is properly calibrated to ensure accuracy.

All noise measurements were made in terms of A-weighted equivalent continuous sound pressure level in LAeq,T over a period of time T. For example, LAeq,5min are the equivalent sound pressure level measured over a 5-minutes time.

Noise survey was conducted for a full continuous twenty-four (24) hours, Seven (7) days, for **One (1) monitoring points/location**. The noise levels emitted were monitored accordingly and recorded.

The survey is conducted by qualified noise monitoring personnel and reference to Appendix C for their certificate.

3.0 INSTRUMENTS

Monitoring instrument was positioned at between 1.5 meters to 3 meters in height from the floor (Ground Level), Mid Level (5 – 6 storey building height) Or High Level (Roof Level). Overall noise distribution was fairly homogenous throughout the duration of noise survey.

Sound Level Meter used complies and conform to the minimum requirements of a Type 1/Class 1 instrument specified in the International Electrotechnical Commission (IEC) publications of 60651 and 60804.

Before and after the noise measurements, the sound level meter is calibrated to verify the accuracy of the instrument.

3.1 Sound Level Meters

CIRRUS RESEARCH plc, Model: CR191SG
Class 1 Data Logging Sound Level Meter
Serial Number: **G304799**

3.2 Acoustic Calibrator

CIRRUS RESEARCH plc, Model: CR515
Acoustic Calibrator
Serial Number: **60614**

Acoustic Pressure level:	94.01 dB	(reference 20uPa)
Step +20dB:	113.93 dB	
Nominal Frequency:	992 Hz	

The calibration certificate of the monitoring instrument can be found in Appendix D

4.0 NOISE SURVEY TERMS

- 4.1 A Weighting
A standard weighting of the audible frequencies designed to reflect the response of the human ear to noise.
- 4.2 Acoustic Calibrator
An instrument that provides a reference noise source that is used to calibrate and check the performance of a Sound Level Meter.
- 4.3 Broadband
Noise Measurements using parameters, which include all the audible noise
- 4.4 dB(A)
Decibels A Weighted
- 4.5 Decibel (dB)
The units of sound level and noise exposure measurement
- 4.6 Fast Time Weighting
A standard time weighting applied by the Sound Level Meter
- 4.7 IEC 60651:1979
The International Standard for Sound Level Meters
- 4.8 IEC 60804:1984
The International Standard for Integrating & Integrating-Averaging Sound Level Meters
- 4.9 IEC 61260:1995
The International Standard for 1:1 Octave & 1:3 Octave Band Filters
- 4.10 IEC 61672-1:2003
The International Standard for Sound Level Meter and Integrating Averaging Sound Level Meters that replaces both IEC 60651 and IEC 60804
- 4.11 Integrating Averaging Sound Level Meter
A Sound Level Meter which accumulates the total sound energy over a measurement period and calculates an average
- 4.12 LAeq,t
Equivalent continuous sound pressure level. A measure of the average sound pressure level during a period of time, t, in dB with 'A' weighting.
- 4.13 Sound Level
Sound Pressure Level with a Frequency weighting, such as dB(A)
- 4.14 Sound Level Meter
An instrument for measuring various noise parameters
- 4.15 Sound Pressure Level, SPL.
The basic measure of noise loudness, expressed in decibels

5.0 SURVEYING LOCATIONS

To carry out One (1) monitoring points/locations for continuous twenty-four (24) hours, Seven (7) days noise monitoring at the boundary of proposed construction site. (Refer to Appendix A for instrument layout plan)

Possible noise contribution source and occurrence:

NOISE MONITORING LOCATION	NOISE SOURCE	OCCURRENCE
Point 4: Rooftop of Blk 88A Telok Blangah St 31 	Vehicle Traffic	Medium - Along Telok Blangah St 31

Note: The above-mentioned noise sources may be limited and there are possible other noise sources not detected during the time of our site survey. For example, possible noise sources can be from occasional aircraft noise, or other activities nearby to the monitoring points.

6.0 NOISE SURVEY RESULTS

The noise survey was carried out in accordance with the Environmental Pollution Control Act (Chapter 94A, Section 77(1)), Environmental Pollution Control (Control of Noise at Construction Sites) Regulations, 1999.

Monday to Saturday

Types of Affected Building	Maximum Noise Level Permitted for construction sites (reckoned as an equivalent continuous noise level over a period of 5 minutes) in decibel (A)		
	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospitals, Schools, Institutions of Higher Learning, Homes for aged, Sick, etc	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	60 (LEQ 12hr)	50 (LEQ 12hr)	
(b) Residential Buildings Located less than 150m from the construction site where noise is being emitted	90 (Leq 5min)	70 (Leq 5min)	55 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 1hr)	55 (LEQ 1hr)
(c) Buildings (other than those in Paragraphs (a) and (b) above	90 (Leq 5min)	70 (Leq 5min)	70 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 12hr)	

Sunday and Public Holidays

Types of Affected Building	Maximum Noise Level Permitted for construction sites (reckoned as an equivalent continuous noise level over a period of 5 minutes) in decibel (A)		
	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospitals, Schools, Institutions of Higher Learning, Homes for aged, Sick, etc	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	60 (LEQ 12hr)	50 (LEQ 12hr)	
(b) Residential Buildings Located less than 150m from the construction site where noise is being emitted	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	75 (LEQ 12hr)	-	-
(c) Buildings (other than those in Paragraphs (a) and (b) above	90 (Leq 5min)	70 (Leq 5min)	70 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 12hr)	

Note:

No Work Rule on Sundays and Public Holidays

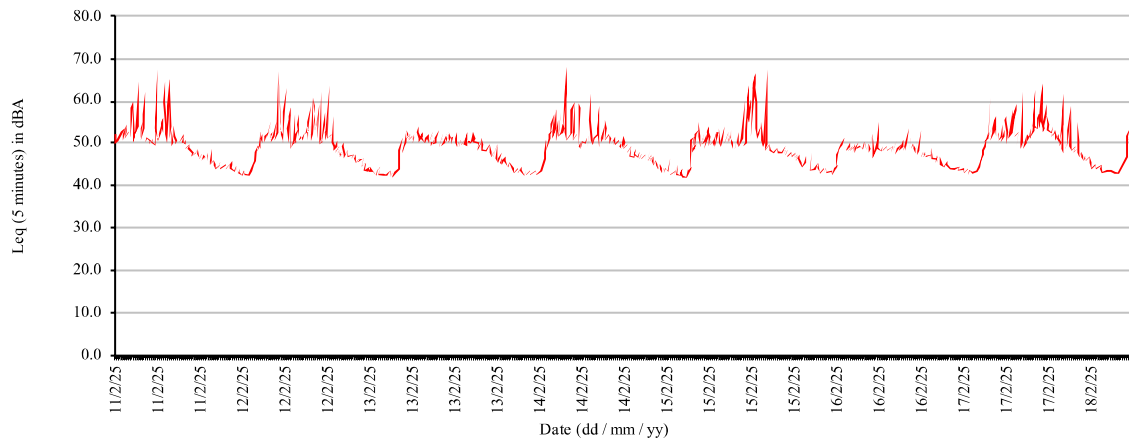
In addition to the settings of the permissible noise limits, NEA has also implemented a rule on prohibition of work on Sundays and Public Holidays (PH) for construction sites located within 150m away from residential premises and noise sensitive premises as follows:

Site Established from 1 September 2011. No work is allowed from 10.00pm on Sat/eve of PH to 7.00am on the following Mon/day after the PH. (For details, please refer to Appendix B)

Survey Results for monitoring point 1 from period : 11-Feb-2025 to 18-Feb-2025

Location : NM4 (RoofTop of 88A Telok Blangah St 31)

Leq (5 Minutes) Plotted Against Date of Monitoring



Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 5 min in Leq db(A)	Maximum Noise Level permitted for construction sites Leq 5min db (A)
No. NM-4		From		To			
NM4 (RoofTop of 88A Telok Blangah St 31)	Tue	11/2/25	0700	11/2/25	1900	67.3	90
	Tue	11/2/25	1900	11/2/25	2200	49.6	70
	Tue/Wed	11/2/25	2200	12/2/25	0700	52.5	55
	Wed	12/2/25	0700	12/2/25	1900	67.1	90
	Wed	12/2/25	1900	12/2/25	2200	50.7	70
	Wed/Thu	12/2/25	2200	13/2/25	0700	53.3	55
	Thu	13/2/25	0700	13/2/25	1900	53.8	90
	Thu	13/2/25	1900	13/2/25	2200	51.3	70
	Thu/Fri	13/2/25	2200	14/2/25	0700	52.9	55
	Fri	14/2/25	0700	14/2/25	1900	68.0	90
	Fri	14/2/25	1900	14/2/25	2200	49.9	70
	Fri/Sat	14/2/25	2200	15/2/25	0700	53.1	55
	Sat	15/2/25	0700	15/2/25	1900	67.5	90
	Sat	15/2/25	1900	15/2/25	2200	49.9	70
	Sat/Sun	15/2/25	2200	16/2/25	0700	50.4	55
	Sun	16/2/25	0700	16/2/25	1900	55.0	75
	Sun	16/2/25	1900	16/2/25	2200	53.2	55
	Sun/Mon	16/2/25	2200	17/2/25	0700	51.8	55
	Mon	17/2/25	0700	17/2/25	1900	64.0	90
	Mon	17/2/25	1900	17/2/25	2200	61.8	70
	Mon/Tue	17/2/25	2200	18/2/25	0700	53.7	55

Table 6.1 Summary of Noise Monitoring Results at Maximum Equivalent of LEQ 5 min

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 1 hr in Leq db(A) for the specific period	Maximum Noise Level permitted for construction sites Leq 1 hr db (A)
No. NM-4		From		To			
NM4 (RoofTop of 88A Telok Blangah St 31)	Tue	11/2/25	1900	11/2/25	2200	48.3	65
	Tue	11/2/25	2200	12/2/25	0700	48.6	55
	Wed	12/2/25	1900	12/2/25	2200	48.7	65
	Wed	12/2/25	2200	13/2/25	0700	50.2	55
	Thu	13/2/25	1900	13/2/25	2200	49.2	65
	Thu	13/2/25	2200	14/2/25	0700	50.9	55
	Fri	14/2/25	1900	14/2/25	2200	48.7	65
	Fri	14/2/25	2200	15/2/25	0700	49.6	55
	Sat	15/2/25	1900	15/2/25	2200	48.4	65
	Sat	15/2/25	2200	16/2/25	0700	48.3	55
	Sun	16/2/25	1900	16/2/25	2200	49.1	-
	Sun	16/2/25	2200	17/2/25	0700	49.5	-
	Mon	17/2/25	1900	17/2/25	2200	53.8	65
	Mon	17/2/25	2200	18/2/25	0700	51.6	55

Table 6.2 Summary of Noise Monitoring Results at Maximum Equivalent of LEQ 1 hr

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 12 hr in Leq db(A)	Maximum Noise Level permitted for construction sites Leq 12 hr db (A)
No. NM-4		From		To			
NM4 (RoofTop of 88A Telok Blangah St 31)	Tue	11/2/25	0700	11/2/25	1900	54.5	75
	Tue	11/2/25	1900	12/2/25	0700	45.9	-
	Wed	12/2/25	0700	12/2/25	1900	54.4	75
	Wed	12/2/25	1900	13/2/25	0700	46.1	-
	Thu	13/2/25	0700	13/2/25	1900	50.8	75
	Thu	13/2/25	1900	14/2/25	0700	46.5	-
	Fri	14/2/25	0700	14/2/25	1900	54.0	75
	Fri	14/2/25	1900	15/2/25	0700	46.2	-
	Sat	15/2/25	0700	15/2/25	1900	55.0	75
	Sat	15/2/25	1900	16/2/25	0700	46.4	-
	Sun	16/2/25	0700	16/2/25	1900	49.3	75
	Sun	16/2/25	1900	16/2/25	0700	46.2	-
	Mon	16/2/25	0700	17/2/25	1900	54.7	75
	Mon	17/2/25	1900	18/2/25	0700	48.7	-

Table 6.3 Summary of Noise Monitoring Results at LEQ 12 hr

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over specific period in Leq db(A)	Maximum Noise Level permitted for construction sites in db (A)
No. NM-4		From		To			
NM4 (RoofTop of 88A Telok Blangah St 31)	Tue	11/2/25	700	11/2/25	1900	54.5	90 (Leq5min) 75 (Leq12hrs)
	Tue	11/2/25	1900	11/2/25	2200	47.5	70 (Leq5min) 65 (Leq 1hr)
	Tue	11/2/25	2200	12/2/25	0000	45.8	55 (Leq5min) 55 (Leq 1hr)
	Wed	12/2/25	0000	12/2/25	700	45.0	55 (Leq5min) 55 (Leq 1hr)
	Wed	12/2/25	700	12/2/25	1900	54.4	90 (Leq5min) 75 (Leq12hrs)
	Wed	12/2/25	1900	12/2/25	2200	47.9	70 (Leq5min) 65 (Leq 1hr)
	Wed	12/2/25	2200	13/2/25	0000	45.9	55 (Leq5min) 55 (Leq 1hr)
	Thu	13/2/25	0000	13/2/25	700	45.1	55 (Leq5min) 55 (Leq 1hr)
	Thu	13/2/25	700	13/2/25	1900	50.8	90 (Leq5min) 75 (Leq12hrs)
	Thu	13/2/25	1900	13/2/25	2200	48.3	70 (Leq5min) 65 (Leq 1hr)
	Thu	13/2/25	2200	14/2/25	0000	46.0	55 (Leq5min) 55 (Leq 1hr)
	Fri	14/2/25	0000	14/2/25	700	45.6	55 (Leq5min) 55 (Leq 1hr)
	Fri	14/2/25	700	14/2/25	1900	54.0	90 (Leq5min) 75 (Leq12hrs)
	Fri	14/2/25	1900	14/2/25	2200	47.8	70 (Leq5min) 65 (Leq 1hr)
	Fri	14/2/25	2200	15/2/25	0000	46.6	55 (Leq5min) 55 (Leq 1hr)
	Sat	15/2/25	0000	15/2/25	700	45.1	55 (Leq5min) 55 (Leq 1hr)
	Sat	15/2/25	700	15/2/25	1900	55.0	90 (Leq5min) 75 (Leq12hrs)
	Sat	15/2/25	1900	15/2/25	2200	48.2	70 (Leq5min) 65 (Leq 1hr)
	Sat	15/2/25	2200	16/2/25	0000	47.0	55 (Leq5min) 55 (Leq 1hr)
	Sun	16/2/25	0000	16/2/25	700	45.0	55 (Leq5min) 55 (Leq 1hr)
	Sun	16/2/25	700	16/2/25	1900	49.3	75 (Leq5min) 75 (Leq 1hr)
	Sun	16/2/25	1900	16/2/25	2200	47.9	55 (Leq5min)
	Sun	16/2/25	2200	17/2/25	0000	45.7	55 (Leq5min)
	Mon	17/2/25	0000	17/2/25	700	45.3	55 (Leq5min)
	Mon	17/2/25	700	17/2/25	1900	54.7	90 (Leq5min) 75 (Leq12hrs)
	Mon	17/2/25	1900	17/2/25	2200	52.1	70 (Leq5min) 65 (Leq 1hr)
	Mon	17/2/25	2200	17/2/25	0000	46.8	55 (Leq5min) 55 (Leq 1hr)
	Tue	18/2/25	0000	18/2/25	0700	46.2	55 (Leq5min) 55 (Leq 1hr)

Table 6.4 Summary of Noise Monitoring Results at Continuous Equivalent of LEQ for specific period

7.0 SUMMARY

The purpose of this survey was to assess the current acoustical environment to establish the background noise level generated over One (1) monitoring point/location for continuous twenty-four (24) hours and seven (7) days noise monitoring at the boundary of the project site for Project Title

Baseline Noise Survey @ NM4 EIA Gillman Barracks

The location of the nearest Noise Receiver (NSR) : **NM4 (RoofTop of 88A Telok Blangah St 31)**

The findings show that,

The ambience noise at NSR NM4 Roof Top of Blk88A Telok Blangah St 31, falls within the Permissible limits stated in the NEA Guideline on construction noise control for the time period between 7am to 10pm (Leq5min & Leq12hrs) (Monday to Saturday) most of the time.

* Refer to Appendix E for full noise data report.

We recommend submitting an appeal to NEA to adjust the Noise Limit as in table 6.5 for NSR NM4 Roof Top of Blk88A Telok Blangah St 31

Background Noise Correction Factor

The adjusted value for the maximum noise level shall be obtained by adding the correction factor corresponding to the difference between the maximum permitted level and the background noise level, set out in the Table below, to the higher of the 2 noise levels.

Difference between 2 noise levels in decibels (A)	Correction factor in decibels (A)
a) Below 2	3
b) 2 to less than 4	2
c) 4 to less than 10	1
d) 10 and above	NIL

Proposed New Permissible Noise Level for monitoring point: **NM4 (RoofTop of 88A Telok Blangah St 31)**

Period	Noise Limit	*Equivalent continuous sound level over period in Leq dB(A) - Background Noise	Difference	Correction Factor	Proposed Adjusted New Permissible Level (dBA)
7am to 7pm (Monday to Saturday)	90 (Leq 5min)	55.0	35.0	0	90 (Leq 5min)
	75 (Leq 12hr)	55.0	20.0	0	75 (Leq 12hr)
7pm to 10pm (Monday to Saturday)	70 (Leq 5min)	52.1	17.9	0	70 (Leq 5min)
	65 (Leq 1 hr)	52.1	12.9	0	65 (Leq 1 hr)
10pm to 12am (Monday to Saturday)	55 (Leq 5min)	47.0	8.0	1	56 (Leq 5min)
	55 (Leq 1 hr)	47.0	8.0	1	56 (Leq 1 hr)
12am to 7am (Monday to Saturday)	55 (Leq 5min)	46.2	8.8	1	56 (Leq 5min)
	55 (Leq 1 hr)	46.2	8.8	1	56 (Leq 1 hr)
7am to 7pm (Sunday)	75 (Leq 5min)	49.3	25.7	0	75 (Leq 5min)
	75 (Leq 12hr)	49.3	25.7	0	75 (Leq 12hr)
7pm to 10pm (Sunday)	55 (Leq 5min)	47.9	7.1	1	56 (Leq 5min)
10pm to 12am (Sunday)	55 (Leq 5min)	45.7	9.3	1	56 (Leq 5min)
12am to 7am (Sunday)	55 (Leq 5min)	45.0	10.0	1	56 (Leq 5min)

* The highest equivalent continuous sound level in Leq dB(A) between Monday to Saturday is taken for calculating the adjusted new permissible level for each period.

Table 6.5 Proposed New Permissible Noise Level

8.0 CONFIRMATION

We, ENSSCOM PTE LTD, certify that the information given is correct. The noise survey was conducted for

CH2M HILL Singapore Pte Ltd
150 Beach Road, Gateway West 34th Floor, Singapore 189720

To carry out One (1) monitoring points/locations for continuous twenty-four (24) hours and seven (7) days noise monitoring at the boundary of the project site for Project Title

Baseline Noise Survey @ NM4 EIA Gillman Barracks

was carried out as described in this report and the results resented herein.

Date of Monitoring:

From 11/2/25 (0700hrs) to 18/2/25 (0700hrs)

Hoo Hian Choon (Mr)
Noise Monitoring Consultant
25-Feb-2025

APPENDIX A : INSTRUMENT LAYOUT PLAN



APPENDIX B: NEA CONSTRUCTION NOISE CONTROL GUIDELINE

Construction Noise Control

Maximum Permissible Noise Levels for Construction Work Commenced on or after 1st October 2007

Noise Regulation

Mondays to Saturdays

Types of affected buildings	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospital, schools, institutions of higher learning, homes for aged sick, etc.	60 dBA (Leq* 12 hrs)	50 dBA (Leq 12 hrs)	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(b) Residential buildings located less than 150m from the construction site	75 dBA (Leq 12 hrs)	65 dBA (Leq 1 hr)	55 dBA (Leq 1 hr)
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)
(c) Buildings other than those in (a) and (b) above	75 dBA (Leq 12 hrs)	65 dBA (Leq 12 hrs)	
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	

Sundays and Public Holidays

Types of affected buildings	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospital, schools, institutions of higher learning, homes for aged sick, etc.	60 dBA (Leq* 12 hrs)	50 dBA (Leq 12 hrs)	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(b) Residential buildings located less than 150m from the construction site	75 dBA (Leq 12 hrs)	-	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(c) Buildings other than those in (a) and (b) above	75 dBA (Leq 12 hrs)	65 dBA (Leq 12 hrs)	
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	

APPENDIX C: NOISE MONITORING OFFICER CERTIFICATES

S/No: 02/20/159



Acoustical Laboratory Pte Ltd
CENTRE FOR ENVIRONMENTAL CONSULTATION AND TRAINING

Certificate of Competence

This is to certify that

Hoo Hian Choon

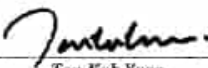
has attended and passed an examination
for a course on

Noise Monitoring

held between 22nd May 2002 and 24th May 2002

Acoustical Laboratory is approved by the Ministry of
Labour as a Training Centre for the
Noise Monitoring Course




Tan Kok Yang
Course Co-ordinator


Koh L. B.
Managing Director



NANYANG
TECHNOLOGICAL
UNIVERSITY

This is to certify that

Hoo Hian Choon

has successfully completed the 2½-day course

Industrial Noise Control

A handwritten signature in black ink, reading "Seah Ben Han".

Seah Ben Han
Director
Centre for Continuing Education

27 August 2010

APPENDIX D: INSTRUMENT CALIBRATION CERTIFICATES



Certificate of Calibration

Equipment Details

Instrument Manufacturer	Cirrus Research plc
Instrument Type	CR 191 SG
Description	Sound Level Meter
Serial Number	G304799

Calibration Procedure

The instrument detailed above have been calibrated to the published test and operation data as detailed in the instrument hand book, using the techniques recommended in the latest revisions of the International Standards IEC 61672-1:2012, IEC 61672-2:2012, IEC 61671:1999, IEC 61674:2001, IEC 61676:1995, IEC 60942:2003, IEC 60942:1997, IEC 61252:1993, ANSI S1.4-1983, ANSI S1.11-1986 and ANSI S1.43-1997 where applicable.
Sound Level Meters: A1 Calibration procedures were carried out by substituting the microphone capsule with a suitable acoustic signal, apart from the final acoustic calibration.

Calibration Traceability

The instrument detailed above was calibrated against the calibration laboratory standards held by Cirrus Research plc. These are traceable to International Standards (A 04). The standards are:

Main Acoustic Calibrator	L & K 4226	Serial Number	3041345	Calibration Ref.	5521631/030684843
Microphone Type	MX 224	Serial Number	2140530H	Calibration Ref.	205503

Calibrated by

Calibration Date

14 January 2025

Calibration Certificate Number

258913

This Calibration Certificate is valid for 12 months from the date above.

Cirrus Research plc, Acoustic House, Brillington Road, Huddersfield, North Yorkshire, YO14 0PL
Telephone: +44 (0) 1723 891355 Fax: +44 (0) 1723 891742
Email: sales@cirrusresearch.co.uk

CERTIFICATE OF CALIBRATION

ISSUED BY Cirrus Research plc

DATE OF ISSUE 03 January 2025 CERTIFICATE NUMBER 229571



Cirrus Research plc
Acoustic House
Bridlington Road
Hunmanby
North Yorkshire
YO14 0PH
United Kingdom

Page 1 of 2

Approved signatory

A. Windress

Electronically signed

Sound Calibrator : IEC 60942:2003

Instrument information

Manufacturer: Cirrus Research plc

Notes:

Model: CR.515

Serial number: 60614

Class: 1

Test summary

Date of calibration: 03 January 2025

The sound calibrator detailed above has been calibrated to the published data as described in the operating manual and in the half-inch configuration. The procedures and techniques used are as described in IEC60942_2003 Annex B – Periodic Tests and three determinations of the sound pressure level, frequency and total distortion were made.

The sound pressure level was measured using a W52F condenser microphone type MK-224 manufactured by Cirrus Research plc.

The results have been corrected to the reference pressure of 101.33 kPa using the manufacturer's data.

As public evidence was available, from a testing organisation responsible for approving the results of pattern evaluation tests, to demonstrate that the model of sound calibrator fully conformed to the requirements for pattern evaluation described in Annex A of IEC 60942:2003, the sound calibrator tested is considered to conform to all the Class 1 requirements of IEC 60942:2003.

The manufacturer's product information indicates that this model of sound calibrator has been formally pattern approved to IEC60942_2003 Annex A to Class 1. This has been confirmed by Laboratoire National d'Essais (LNE), Physikalisch-Technische Bundesanstalt (PTB) and APPLUS (APPLUS).

Notes:

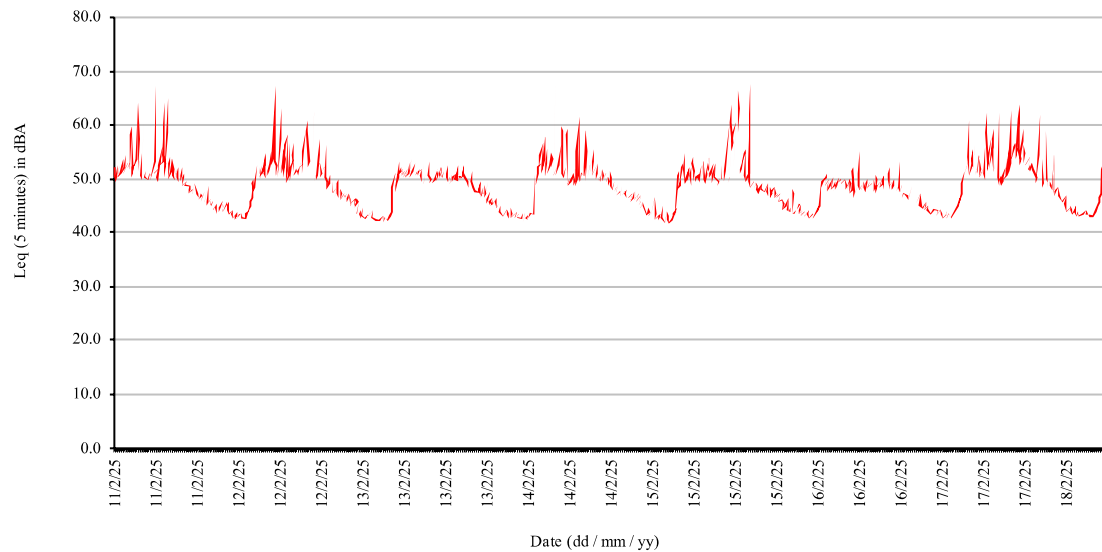
This certificate provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory. The results within this certificate relate only to the items calibrated. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%.

APPENDIX E

CONSTRUCTION SITE NOISE MONITORING DATA AND CHART

NAME OF COMPANY	CH2M HILL Singapore Pte Ltd		
SITE LOCATION	NM4 EIA Gillman Barracks		
REPORT REFERENCE	11/02/2025 - 18/02/2025		
MODE	Environment	FREQUENCY WEIGHTING	A

Leq (5 Minutes) Plotted Against Date of Monitoring



NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM4 EIA Gillman Barracks								
REPORT REFERENCE			11/02/2025 - 18/02/2025								
Start	11/2/25		7:05	Leq12h		54.5		Weighting		A	
End	11/2/25		19:00								
Date	Time	Leq5m		Date	Time	Leq5m		Date	Time	Leq5m	
11/2/25	7:05	52.1		11/2/25	11:05	51.3		11/2/25	15:05	53.3	
11/2/25	7:10	50.6		11/2/25	11:10	51.1		11/2/25	15:10	64.3	
11/2/25	7:15	49.7		11/2/25	11:15	53.4		11/2/25	15:15	59.9	
11/2/25	7:20	50.6		11/2/25	11:20	51.4		11/2/25	15:20	54.4	
11/2/25	7:25	52.7		11/2/25	11:25	54.8		11/2/25	15:25	54.3	
11/2/25	7:30	52.6		11/2/25	11:30	50.8		11/2/25	15:30	53.0	
11/2/25	7:35	50.8		11/2/25	11:35	51.1		11/2/25	15:35	51.9	
11/2/25	7:40	52.7		11/2/25	11:40	50.0		11/2/25	15:40	52.7	
11/2/25	7:45	50.9		11/2/25	11:45	53.6		11/2/25	15:45	50.1	
11/2/25	7:50	50.2		11/2/25	11:50	56.8		11/2/25	15:50	58.7	
11/2/25	7:55	50.8		11/2/25	11:55	62.1		11/2/25	15:55	64.8	
11/2/25	8:00	50.2		11/2/25	12:00	50.0		11/2/25	16:00	54.0	
11/2/25	8:05	51.2		11/2/25	12:05	50.2		11/2/25	16:05	51.4	
11/2/25	8:10	50.7		11/2/25	12:10	51.4		11/2/25	16:10	53.9	
11/2/25	8:15	52.7		11/2/25	12:15	50.2		11/2/25	16:15	53.1	
11/2/25	8:20	53.6		11/2/25	12:20	50.4		11/2/25	16:20	50.0	
11/2/25	8:25	52.3		11/2/25	12:25	49.8		11/2/25	16:25	49.5	
11/2/25	8:30	50.9		11/2/25	12:30	50.6		11/2/25	16:30	51.6	
11/2/25	8:35	52.0		11/2/25	12:35	50.7		11/2/25	16:35	53.8	
11/2/25	8:40	54.5		11/2/25	12:40	50.5		11/2/25	16:40	53.5	
11/2/25	8:45	52.6		11/2/25	12:45	49.9		11/2/25	16:45	53.6	
11/2/25	8:50	51.2		11/2/25	12:50	49.5		11/2/25	16:50	53.6	
11/2/25	8:55	51.5		11/2/25	12:55	49.7		11/2/25	16:55	51.8	
11/2/25	9:00	51.6		11/2/25	13:00	51.0		11/2/25	17:00	51.3	
11/2/25	9:05	51.5		11/2/25	13:05	51.0		11/2/25	17:05	50.8	
11/2/25	9:10	52.8		11/2/25	13:10	50.0		11/2/25	17:10	49.8	
11/2/25	9:15	52.6		11/2/25	13:15	50.0		11/2/25	17:15	51.9	
11/2/25	9:20	52.3		11/2/25	13:20	50.0		11/2/25	17:20	51.4	
11/2/25	9:25	51.8		11/2/25	13:25	49.9		11/2/25	17:25	50.5	
11/2/25	9:30	53.0		11/2/25	13:30	50.0		11/2/25	17:30	52.2	
11/2/25	9:35	52.5		11/2/25	13:35	50.2		11/2/25	17:35	51.0	
11/2/25	9:40	51.8		11/2/25	13:40	49.9		11/2/25	17:40	50.4	
11/2/25	9:45	58.3		11/2/25	13:45	53.2		11/2/25	17:45	50.1	
11/2/25	9:50	58.2		11/2/25	13:50	67.3		11/2/25	17:50	49.6	
11/2/25	9:55	59.7		11/2/25	13:55	53.7		11/2/25	17:55	50.6	
11/2/25	10:00	51.8		11/2/25	14:00	51.0		11/2/25	18:00	51.8	
11/2/25	10:05	50.4		11/2/25	14:05	51.9		11/2/25	18:05	50.1	
11/2/25	10:10	51.1		11/2/25	14:10	50.3		11/2/25	18:10	52.3	
11/2/25	10:15	52.3		11/2/25	14:15	50.4		11/2/25	18:15	50.8	
11/2/25	10:20	53.1		11/2/25	14:20	50.3		11/2/25	18:20	49.7	
11/2/25	10:25	52.3		11/2/25	14:25	49.7		11/2/25	18:25	50.0	
11/2/25	10:30	52.6		11/2/25	14:30	52.6		11/2/25	18:30	50.9	
11/2/25	10:35	51.7		11/2/25	14:35	53.1		11/2/25	18:35	50.1	
11/2/25	10:40	53.8		11/2/25	14:40	52.6		11/2/25	18:40	48.8	
11/2/25	10:45	57.8		11/2/25	14:45	56.0		11/2/25	18:45	49.1	
11/2/25	10:50	64.4		11/2/25	14:50	54.9		11/2/25	18:50	48.8	
11/2/25	10:55	53.6		11/2/25	14:55	54.2		11/2/25	18:55	49.5	
11/2/25	11:00	57.4		11/2/25	15:00	52.4		11/2/25	19:00	49.6	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM4 EIA Gillman Barracks								
REPORT REFERENCE			11/02/2025 - 18/02/2025								
Start	11/2/25	19:05		Leq12h	45.9				Weighting		A
End	12/2/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
11/2/25	19:05	49.3	48.3	11/2/25	23:05	45.2	45.1	12/2/25	3:05	43.4	43.2
11/2/25	19:10	48.6		11/2/25	23:10	44.9		12/2/25	3:10	43.8	
11/2/25	19:15	48.3		11/2/25	23:15	46.1		12/2/25	3:15	43.3	
11/2/25	19:20	49.0		11/2/25	23:20	45.1		12/2/25	3:20	42.8	
11/2/25	19:25	48.3		11/2/25	23:25	45.2		12/2/25	3:25	43.1	
11/2/25	19:30	48.3		11/2/25	23:30	45.6		12/2/25	3:30	43.9	
11/2/25	19:35	48.9		11/2/25	23:35	45.2		12/2/25	3:35	43.1	
11/2/25	19:40	47.9		11/2/25	23:40	45.2		12/2/25	3:40	43.4	
11/2/25	19:45	47.2		11/2/25	23:45	44.8		12/2/25	3:45	42.5	
11/2/25	19:50	47.8		11/2/25	23:50	44.1		12/2/25	3:50	43.4	
11/2/25	19:55	47.0	47.6	11/2/25	23:55	44.0	44.4	12/2/25	3:55	42.8	42.9
11/2/25	20:00	48.0		11/2/25	0:00	44.8		12/2/25	4:00	43.2	
11/2/25	20:05	48.0		12/2/25	0:05	44.0		12/2/25	4:05	42.8	
11/2/25	20:10	47.8		12/2/25	0:10	45.5		12/2/25	4:10	42.8	
11/2/25	20:15	47.1		12/2/25	0:15	44.8		12/2/25	4:15	43.6	
11/2/25	20:20	49.0		12/2/25	0:20	44.8		12/2/25	4:20	43.0	
11/2/25	20:25	47.2		12/2/25	0:25	44.1		12/2/25	4:25	43.4	
11/2/25	20:30	47.6		12/2/25	0:30	43.6		12/2/25	4:30	42.7	
11/2/25	20:35	47.7		12/2/25	0:35	44.0		12/2/25	4:35	42.4	
11/2/25	20:40	47.6		12/2/25	0:40	44.8		12/2/25	4:40	42.5	
11/2/25	20:45	47.6	46.6	12/2/25	0:45	44.7	44.6	12/2/25	4:45	42.9	43.9
11/2/25	20:50	47.2		12/2/25	0:50	43.8		12/2/25	4:50	43.2	
11/2/25	20:55	47.4		12/2/25	0:55	44.1		12/2/25	4:55	42.9	
11/2/25	21:00	46.6		12/2/25	1:00	44.8		12/2/25	5:00	42.9	
11/2/25	21:05	46.6		12/2/25	1:05	44.3		12/2/25	5:05	42.8	
11/2/25	21:10	47.3		12/2/25	1:10	44.9		12/2/25	5:10	42.6	
11/2/25	21:15	47.3		12/2/25	1:15	44.4		12/2/25	5:15	43.0	
11/2/25	21:20	46.4		12/2/25	1:20	45.6		12/2/25	5:20	43.2	
11/2/25	21:25	47.4		12/2/25	1:25	44.9		12/2/25	5:25	43.4	
11/2/25	21:30	46.1		12/2/25	1:30	43.9		12/2/25	5:30	43.1	
11/2/25	21:35	46.2	46.4	12/2/25	1:35	44.4	44.1	12/2/25	5:35	43.3	48.6
11/2/25	21:40	46.0		12/2/25	1:40	43.7		12/2/25	5:40	44.1	
11/2/25	21:45	46.3		12/2/25	1:45	45.6		12/2/25	5:45	43.6	
11/2/25	21:50	47.0		12/2/25	1:50	44.5		12/2/25	5:50	45.0	
11/2/25	21:55	45.8		12/2/25	1:55	44.3		12/2/25	5:55	45.5	
11/2/25	22:00	46.3		12/2/25	2:00	44.8		12/2/25	6:00	45.3	
11/2/25	22:05	45.8		12/2/25	2:05	45.7		12/2/25	6:05	45.7	
11/2/25	22:10	47.6		12/2/25	2:10	45.1		12/2/25	6:10	45.7	
11/2/25	22:15	46.7		12/2/25	2:15	44.1		12/2/25	6:15	46.6	
11/2/25	22:20	45.9		12/2/25	2:20	43.8		12/2/25	6:20	48.0	
11/2/25	22:25	45.9	46.4	12/2/25	2:25	44.5	44.1	12/2/25	6:25	49.8	
11/2/25	22:30	48.2		12/2/25	2:30	43.5		12/2/25	6:30	49.2	
11/2/25	22:35	45.2		12/2/25	2:35	43.5		12/2/25	6:35	47.6	
11/2/25	22:40	48.7		12/2/25	2:40	43.7		12/2/25	6:40	47.7	
11/2/25	22:45	45.8		12/2/25	2:45	43.8		12/2/25	6:45	48.0	
11/2/25	22:50	45.2		12/2/25	2:50	44.3		12/2/25	6:50	48.3	
11/2/25	22:55	44.7		12/2/25	2:55	43.4		12/2/25	6:55	48.9	
11/2/25	23:00	45.1		12/2/25	3:00	43.1		12/2/25	7:00	52.5	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM4 EIA Gillman Barracks						
REPORT REFERENCE			11/02/2025 - 18/02/2025						
Start	12/2/25	7:05	Leq12h	54.4			Weighting		A
End	12/2/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m		Date	Time	Leq5m
12/2/25	7:05	52.9	12/2/25	11:05	62.9		12/2/25	15:05	59.0
12/2/25	7:10	50.1	12/2/25	11:10	50.6		12/2/25	15:10	56.4
12/2/25	7:15	52.2	12/2/25	11:15	52.7		12/2/25	15:15	50.2
12/2/25	7:20	51.4	12/2/25	11:20	52.3		12/2/25	15:20	54.0
12/2/25	7:25	50.0	12/2/25	11:25	51.0		12/2/25	15:25	54.3
12/2/25	7:30	52.1	12/2/25	11:30	52.0		12/2/25	15:30	50.5
12/2/25	7:35	49.7	12/2/25	11:35	55.4		12/2/25	15:35	52.2
12/2/25	7:40	50.4	12/2/25	11:40	53.5		12/2/25	15:40	60.7
12/2/25	7:45	52.4	12/2/25	11:45	50.3		12/2/25	15:45	58.8
12/2/25	7:50	50.1	12/2/25	11:50	56.3		12/2/25	15:50	53.3
12/2/25	7:55	49.8	12/2/25	11:55	56.5		12/2/25	15:55	52.1
12/2/25	8:00	51.6	12/2/25	12:00	58.1		12/2/25	16:00	55.3
12/2/25	8:05	52.4	12/2/25	12:05	51.3		12/2/25	16:05	56.0
12/2/25	8:10	50.5	12/2/25	12:10	49.0		12/2/25	16:10	53.0
12/2/25	8:15	52.5	12/2/25	12:15	49.2		12/2/25	16:15	55.8
12/2/25	8:20	51.0	12/2/25	12:20	49.2		12/2/25	16:20	52.5
12/2/25	8:25	54.8	12/2/25	12:25	49.4		12/2/25	16:25	51.4
12/2/25	8:30	51.0	12/2/25	12:30	50.6		12/2/25	16:30	52.6
12/2/25	8:35	50.3	12/2/25	12:35	56.7		12/2/25	16:35	59.3
12/2/25	8:40	52.0	12/2/25	12:40	49.7		12/2/25	16:40	51.6
12/2/25	8:45	51.3	12/2/25	12:45	50.9		12/2/25	16:45	62.2
12/2/25	8:50	50.3	12/2/25	12:50	51.7		12/2/25	16:50	51.2
12/2/25	8:55	52.4	12/2/25	12:55	49.7		12/2/25	16:55	51.7
12/2/25	9:00	50.8	12/2/25	13:00	52.0		12/2/25	17:00	49.6
12/2/25	9:05	51.5	12/2/25	13:05	53.6		12/2/25	17:05	50.8
12/2/25	9:10	51.3	12/2/25	13:10	56.7		12/2/25	17:10	49.8
12/2/25	9:15	52.8	12/2/25	13:15	51.4		12/2/25	17:15	50.5
12/2/25	9:20	51.7	12/2/25	13:20	54.6		12/2/25	17:20	50.8
12/2/25	9:25	55.1	12/2/25	13:25	51.6		12/2/25	17:25	50.9
12/2/25	9:30	52.2	12/2/25	13:30	50.8		12/2/25	17:30	54.4
12/2/25	9:35	50.8	12/2/25	13:35	50.2		12/2/25	17:35	57.5
12/2/25	9:40	54.9	12/2/25	13:40	50.5		12/2/25	17:40	52.3
12/2/25	9:45	55.2	12/2/25	13:45	50.6		12/2/25	17:45	53.0
12/2/25	9:50	52.4	12/2/25	13:50	51.7		12/2/25	17:50	50.9
12/2/25	9:55	53.7	12/2/25	13:55	51.4		12/2/25	17:55	50.4
12/2/25	10:00	67.1	12/2/25	14:00	52.0		12/2/25	18:00	52.3
12/2/25	10:05	55.2	12/2/25	14:05	51.3		12/2/25	18:05	63.6
12/2/25	10:10	53.2	12/2/25	14:10	52.6		12/2/25	18:10	51.3
12/2/25	10:15	53.5	12/2/25	14:15	52.9		12/2/25	18:15	51.4
12/2/25	10:20	52.6	12/2/25	14:20	50.6		12/2/25	18:20	51.2
12/2/25	10:25	52.0	12/2/25	14:25	53.8		12/2/25	18:25	51.5
12/2/25	10:30	50.5	12/2/25	14:30	52.2		12/2/25	18:30	52.0
12/2/25	10:35	50.9	12/2/25	14:35	52.6		12/2/25	18:35	51.6
12/2/25	10:40	52.2	12/2/25	14:40	52.5		12/2/25	18:40	50.6
12/2/25	10:45	50.8	12/2/25	14:45	52.9		12/2/25	18:45	56.2
12/2/25	10:50	52.2	12/2/25	14:50	51.7		12/2/25	18:50	50.2
12/2/25	10:55	50.4	12/2/25	14:55	50.9		12/2/25	18:55	49.7
12/2/25	11:00	57.6	12/2/25	15:00	55.0		12/2/25	19:00	49.8

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM4 EIA Gillman Barracks							
REPORT REFERENCE				11/02/2025 - 18/02/2025							
Start	12/2/25	19:05		Leq12h	46.1			Weighting		A	
End	13/2/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
12/2/25	19:05	49.1	48.7	12/2/25	23:05	45.4	45.5	13/2/25	3:05	42.5	42.4
12/2/25	19:10	48.2		12/2/25	23:10	46.2		13/2/25	3:10	42.4	
12/2/25	19:15	48.2		12/2/25	23:15	45.4		13/2/25	3:15	42.3	
12/2/25	19:20	48.3		12/2/25	23:20	45.9		13/2/25	3:20	42.3	
12/2/25	19:25	49.1		12/2/25	23:25	45.0		13/2/25	3:25	42.5	
12/2/25	19:30	50.7		12/2/25	23:30	46.0		13/2/25	3:30	42.8	
12/2/25	19:35	47.9		12/2/25	23:35	45.8		13/2/25	3:35	42.5	
12/2/25	19:40	48.3		12/2/25	23:40	45.0		13/2/25	3:40	42.7	
12/2/25	19:45	48.2		12/2/25	23:45	46.5		13/2/25	3:45	42.4	
12/2/25	19:50	49.4		12/2/25	23:50	44.7		13/2/25	3:50	42.5	
12/2/25	19:55	47.4		12/2/25	23:55	44.5		13/2/25	3:55	42.2	
12/2/25	20:00	48.3		12/2/25	0:00	44.6		13/2/25	4:00	42.2	
12/2/25	20:05	48.4	47.9	13/2/25	0:05	44.3	43.9	13/2/25	4:05	42.5	42.7
12/2/25	20:10	47.1		13/2/25	0:10	44.4		13/2/25	4:10	43.1	
12/2/25	20:15	47.6		13/2/25	0:15	45.6		13/2/25	4:15	43.0	
12/2/25	20:20	48.4		13/2/25	0:20	43.6		13/2/25	4:20	42.6	
12/2/25	20:25	48.0		13/2/25	0:25	43.6		13/2/25	4:25	43.3	
12/2/25	20:30	46.7		13/2/25	0:30	44.2		13/2/25	4:30	42.1	
12/2/25	20:35	50.0		13/2/25	0:35	43.4		13/2/25	4:35	42.5	
12/2/25	20:40	49.2		13/2/25	0:40	43.4		13/2/25	4:40	42.8	
12/2/25	20:45	47.3		13/2/25	0:45	43.4		13/2/25	4:45	43.2	
12/2/25	20:50	47.2		13/2/25	0:50	42.9		13/2/25	4:50	42.5	
12/2/25	20:55	46.7		13/2/25	0:55	44.6		13/2/25	4:55	42.4	
12/2/25	21:00	46.3		13/2/25	1:00	43.2		13/2/25	5:00	42.4	
12/2/25	21:05	46.5	47.1	13/2/25	1:05	43.0	43.1	13/2/25	5:05	42.3	43.4
12/2/25	21:10	48.1		13/2/25	1:10	43.3		13/2/25	5:10	42.4	
12/2/25	21:15	47.8		13/2/25	1:15	43.0		13/2/25	5:15	42.6	
12/2/25	21:20	47.6		13/2/25	1:20	42.9		13/2/25	5:20	42.9	
12/2/25	21:25	47.1		13/2/25	1:25	42.9		13/2/25	5:25	42.8	
12/2/25	21:30	46.8		13/2/25	1:30	43.2		13/2/25	5:30	43.3	
12/2/25	21:35	46.3		13/2/25	1:35	43.6		13/2/25	5:35	43.0	
12/2/25	21:40	46.4		13/2/25	1:40	42.9		13/2/25	5:40	43.1	
12/2/25	21:45	46.6		13/2/25	1:45	42.9		13/2/25	5:45	43.1	
12/2/25	21:50	47.1		13/2/25	1:50	43.3		13/2/25	5:50	44.0	
12/2/25	21:55	47.4		13/2/25	1:55	43.5		13/2/25	5:55	44.6	
12/2/25	22:00	46.6		13/2/25	2:00	42.8		13/2/25	6:00	45.6	
12/2/25	22:05	47.4	46.4	13/2/25	2:05	42.5	43.0	13/2/25	6:05	48.4	50.2
12/2/25	22:10	46.8		13/2/25	2:10	44.0		13/2/25	6:10	51.2	
12/2/25	22:15	46.4		13/2/25	2:15	43.2		13/2/25	6:15	49.0	
12/2/25	22:20	45.7		13/2/25	2:20	42.9		13/2/25	6:20	51.1	
12/2/25	22:25	46.5		13/2/25	2:25	43.0		13/2/25	6:25	51.2	
12/2/25	22:30	46.6		13/2/25	2:30	44.3		13/2/25	6:30	50.6	
12/2/25	22:35	47.4		13/2/25	2:35	42.7		13/2/25	6:35	47.8	
12/2/25	22:40	46.3		13/2/25	2:40	42.9		13/2/25	6:40	49.2	
12/2/25	22:45	46.3		13/2/25	2:45	42.6		13/2/25	6:45	48.2	
12/2/25	22:50	45.6		13/2/25	2:50	42.8		13/2/25	6:50	48.7	
12/2/25	22:55	45.6		13/2/25	2:55	42.8		13/2/25	6:55	50.4	
12/2/25	23:00	45.0		13/2/25	3:00	42.3		13/2/25	7:00	53.3	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd							
SITE LOCATION			NM4 EIA Gillman Barracks							
REPORT REFERENCE			11/02/2025 - 18/02/2025							
Start	13/2/25	7:05	Leq12h	50.8				Weighting		A
End	13/2/25	19:00								
Date	Time	Leq5m	Date	Time	Leq5m		Date	Time	Leq5m	
13/2/25	7:05	53.0	13/2/25	11:05	50.3		13/2/25	15:05	49.8	
13/2/25	7:10	50.7	13/2/25	11:10	49.6		13/2/25	15:10	49.9	
13/2/25	7:15	51.4	13/2/25	11:15	52.8		13/2/25	15:15	52.4	
13/2/25	7:20	52.3	13/2/25	11:20	49.1		13/2/25	15:20	51.2	
13/2/25	7:25	51.2	13/2/25	11:25	50.0		13/2/25	15:25	50.2	
13/2/25	7:30	51.1	13/2/25	11:30	51.2		13/2/25	15:30	50.1	
13/2/25	7:35	51.7	13/2/25	11:35	49.9		13/2/25	15:35	49.4	
13/2/25	7:40	52.0	13/2/25	11:40	49.5		13/2/25	15:40	49.0	
13/2/25	7:45	50.8	13/2/25	11:45	51.0		13/2/25	15:45	50.3	
13/2/25	7:50	51.1	13/2/25	11:50	50.4		13/2/25	15:50	50.7	
13/2/25	7:55	51.3	13/2/25	11:55	51.0		13/2/25	15:55	50.2	
13/2/25	8:00	50.6	13/2/25	12:00	51.4		13/2/25	16:00	49.2	
13/2/25	8:05	51.5	13/2/25	12:05	50.6		13/2/25	16:05	50.6	
13/2/25	8:10	50.3	13/2/25	12:10	53.2		13/2/25	16:10	49.6	
13/2/25	8:15	51.9	13/2/25	12:15	50.7		13/2/25	16:15	49.5	
13/2/25	8:20	50.2	13/2/25	12:20	50.8		13/2/25	16:20	50.2	
13/2/25	8:25	50.2	13/2/25	12:25	50.0		13/2/25	16:25	49.9	
13/2/25	8:30	50.8	13/2/25	12:30	49.2		13/2/25	16:30	51.2	
13/2/25	8:35	51.2	13/2/25	12:35	48.6		13/2/25	16:35	49.8	
13/2/25	8:40	50.7	13/2/25	12:40	49.3		13/2/25	16:40	51.0	
13/2/25	8:45	53.0	13/2/25	12:45	49.2		13/2/25	16:45	50.1	
13/2/25	8:50	52.6	13/2/25	12:50	52.2		13/2/25	16:50	50.4	
13/2/25	8:55	51.6	13/2/25	12:55	49.2		13/2/25	16:55	49.4	
13/2/25	9:00	53.8	13/2/25	13:00	49.5		13/2/25	17:00	52.5	
13/2/25	9:05	52.5	13/2/25	13:05	49.8		13/2/25	17:05	50.7	
13/2/25	9:10	51.2	13/2/25	13:10	49.6		13/2/25	17:10	50.8	
13/2/25	9:15	50.2	13/2/25	13:15	49.8		13/2/25	17:15	51.1	
13/2/25	9:20	51.6	13/2/25	13:20	49.5		13/2/25	17:20	50.7	
13/2/25	9:25	50.9	13/2/25	13:25	50.1		13/2/25	17:25	50.7	
13/2/25	9:30	51.3	13/2/25	13:30	51.9		13/2/25	17:30	50.8	
13/2/25	9:35	51.8	13/2/25	13:35	49.6		13/2/25	17:35	49.9	
13/2/25	9:40	52.8	13/2/25	13:40	49.2		13/2/25	17:40	49.8	
13/2/25	9:45	51.3	13/2/25	13:45	49.7		13/2/25	17:45	50.1	
13/2/25	9:50	51.0	13/2/25	13:50	49.8		13/2/25	17:50	50.6	
13/2/25	9:55	51.4	13/2/25	13:55	50.4		13/2/25	17:55	50.5	
13/2/25	10:00	50.8	13/2/25	14:00	50.6		13/2/25	18:00	51.0	
13/2/25	10:05	51.2	13/2/25	14:05	52.7		13/2/25	18:05	52.5	
13/2/25	10:10	50.2	13/2/25	14:10	50.1		13/2/25	18:10	51.2	
13/2/25	10:15	51.4	13/2/25	14:15	51.2		13/2/25	18:15	50.3	
13/2/25	10:20	51.0	13/2/25	14:20	51.4		13/2/25	18:20	50.1	
13/2/25	10:25	50.8	13/2/25	14:25	51.5		13/2/25	18:25	50.7	
13/2/25	10:30	51.9	13/2/25	14:30	50.3		13/2/25	18:30	50.5	
13/2/25	10:35	51.0	13/2/25	14:35	50.0		13/2/25	18:35	50.4	
13/2/25	10:40	51.2	13/2/25	14:40	51.5		13/2/25	18:40	49.8	
13/2/25	10:45	50.8	13/2/25	14:45	49.9		13/2/25	18:45	49.7	
13/2/25	10:50	51.7	13/2/25	14:50	52.6		13/2/25	18:50	50.0	
13/2/25	10:55	50.7	13/2/25	14:55	52.2		13/2/25	18:55	48.5	
13/2/25	11:00	50.9	13/2/25	15:00	49.9		13/2/25	19:00	50.4	

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM4 EIA Gillman Barracks							
REPORT REFERENCE				11/02/2025 - 18/02/2025							
Start	13/2/25	19:05		Leq12h	46.5			Weighting		A	
End	14/2/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
13/2/25	19:05	48.6		13/2/25	23:05	46.1		14/2/25	3:05	42.3	
13/2/25	19:10	50.1		13/2/25	23:10	45.9		14/2/25	3:10	43.0	
13/2/25	19:15	50.0		13/2/25	23:15	45.4		14/2/25	3:15	43.6	
13/2/25	19:20	48.4		13/2/25	23:20	46.7		14/2/25	3:20	42.7	
13/2/25	19:25	51.3		13/2/25	23:25	45.7		14/2/25	3:25	42.8	
13/2/25	19:30	49.6		13/2/25	23:30	45.7		14/2/25	3:30	43.3	
13/2/25	19:35	48.5		13/2/25	23:35	46.0		14/2/25	3:35	43.2	
13/2/25	19:40	48.4		13/2/25	23:40	46.0		14/2/25	3:40	43.2	
13/2/25	19:45	48.1		13/2/25	23:45	45.7		14/2/25	3:45	42.4	
13/2/25	19:50	48.2		13/2/25	23:50	44.5		14/2/25	3:50	42.9	
13/2/25	19:55	48.8		13/2/25	23:55	45.4		14/2/25	3:55	42.6	
13/2/25	20:00	48.7	49.2	13/2/25	0:00	44.9	45.7	14/2/25	4:00	43.4	43.0
13/2/25	20:05	47.7		14/2/25	0:05	44.4		14/2/25	4:05	42.7	
13/2/25	20:10	48.2		14/2/25	0:10	45.0		14/2/25	4:10	42.7	
13/2/25	20:15	48.2		14/2/25	0:15	44.7		14/2/25	4:15	42.1	
13/2/25	20:20	47.6		14/2/25	0:20	43.9		14/2/25	4:20	42.5	
13/2/25	20:25	48.2		14/2/25	0:25	44.1		14/2/25	4:25	43.6	
13/2/25	20:30	47.8		14/2/25	0:30	44.1		14/2/25	4:30	43.0	
13/2/25	20:35	47.6		14/2/25	0:35	44.0		14/2/25	4:35	42.8	
13/2/25	20:40	47.7		14/2/25	0:40	43.8		14/2/25	4:40	42.7	
13/2/25	20:45	49.7		14/2/25	0:45	43.3		14/2/25	4:45	42.6	
13/2/25	20:50	48.0		14/2/25	0:50	43.4		14/2/25	4:50	42.3	
13/2/25	20:55	47.6		14/2/25	0:55	43.6		14/2/25	4:55	42.4	
13/2/25	21:00	46.8	48.0	14/2/25	1:00	42.9	44.0	14/2/25	5:00	43.4	42.8
13/2/25	21:05	47.7		14/2/25	1:05	43.4		14/2/25	5:05	42.5	
13/2/25	21:10	48.3		14/2/25	1:10	43.0		14/2/25	5:10	42.7	
13/2/25	21:15	46.7		14/2/25	1:15	43.0		14/2/25	5:15	42.8	
13/2/25	21:20	47.6		14/2/25	1:20	44.2		14/2/25	5:20	43.6	
13/2/25	21:25	47.2		14/2/25	1:25	43.4		14/2/25	5:25	43.0	
13/2/25	21:30	46.8		14/2/25	1:30	43.2		14/2/25	5:30	43.5	
13/2/25	21:35	48.9		14/2/25	1:35	43.5		14/2/25	5:35	43.4	
13/2/25	21:40	47.4		14/2/25	1:40	43.1		14/2/25	5:40	43.4	
13/2/25	21:45	46.7		14/2/25	1:45	42.9		14/2/25	5:45	43.9	
13/2/25	21:50	46.7		14/2/25	1:50	42.8		14/2/25	5:50	43.6	
13/2/25	21:55	47.1		14/2/25	1:55	42.7		14/2/25	5:55	46.6	
13/2/25	22:00	49.6	47.7	14/2/25	2:00	44.7	43.4	14/2/25	6:00	48.0	44.3
13/2/25	22:05	46.5		14/2/25	2:05	43.6		14/2/25	6:05	50.7	
13/2/25	22:10	45.5		14/2/25	2:10	43.3		14/2/25	6:10	50.8	
13/2/25	22:15	46.2		14/2/25	2:15	43.0		14/2/25	6:15	48.9	
13/2/25	22:20	46.5		14/2/25	2:20	42.9		14/2/25	6:20	49.3	
13/2/25	22:25	45.8		14/2/25	2:25	43.3		14/2/25	6:25	50.3	
13/2/25	22:30	47.6		14/2/25	2:30	42.8		14/2/25	6:30	48.4	
13/2/25	22:35	45.6		14/2/25	2:35	42.6		14/2/25	6:35	47.9	
13/2/25	22:40	46.4		14/2/25	2:40	42.5		14/2/25	6:40	51.1	
13/2/25	22:45	46.7		14/2/25	2:45	43.7		14/2/25	6:45	52.3	
13/2/25	22:50	45.2		14/2/25	2:50	42.7		14/2/25	6:50	52.4	
13/2/25	22:55	46.1		14/2/25	2:55	42.5		14/2/25	6:55	52.9	
13/2/25	23:00	45.7	46.2	14/2/25	3:00	43.1	43.0	14/2/25	7:00	52.2	50.9

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd							
SITE LOCATION			NM4 EIA Gillman Barracks							
REPORT REFERENCE			11/02/2025 - 18/02/2025							
Start	14/2/25	7:05	Leq12h	54.0				Weighting		A
End	14/2/25	19:00								
Date	Time	Leq5m	Date	Time	Leq5m		Date	Time	Leq5m	
14/2/25	7:05	52.1	14/2/25	11:05	52.3		14/2/25	15:05	51.8	
14/2/25	7:10	54.5	14/2/25	11:10	52.2		14/2/25	15:10	50.3	
14/2/25	7:15	56.8	14/2/25	11:15	50.6		14/2/25	15:15	52.6	
14/2/25	7:20	52.6	14/2/25	11:20	57.2		14/2/25	15:20	51.4	
14/2/25	7:25	51.2	14/2/25	11:25	54.5		14/2/25	15:25	50.3	
14/2/25	7:30	51.3	14/2/25	11:30	59.3		14/2/25	15:30	51.4	
14/2/25	7:35	53.5	14/2/25	11:35	58.2		14/2/25	15:35	51.1	
14/2/25	7:40	54.6	14/2/25	11:40	58.0		14/2/25	15:40	54.5	
14/2/25	7:45	54.2	14/2/25	11:45	49.3		14/2/25	15:45	50.7	
14/2/25	7:50	58.0	14/2/25	11:50	50.1		14/2/25	15:50	55.4	
14/2/25	7:55	50.5	14/2/25	11:55	49.7		14/2/25	15:55	53.4	
14/2/25	8:00	50.6	14/2/25	12:00	48.7		14/2/25	16:00	50.8	
14/2/25	8:05	53.1	14/2/25	12:05	49.4		14/2/25	16:05	51.1	
14/2/25	8:10	55.7	14/2/25	12:10	50.4		14/2/25	16:10	51.1	
14/2/25	8:15	52.4	14/2/25	12:15	49.8		14/2/25	16:15	52.0	
14/2/25	8:20	57.6	14/2/25	12:20	49.9		14/2/25	16:20	52.3	
14/2/25	8:25	51.8	14/2/25	12:25	49.6		14/2/25	16:25	51.6	
14/2/25	8:30	51.0	14/2/25	12:30	49.6		14/2/25	16:30	52.8	
14/2/25	8:35	51.1	14/2/25	12:35	50.2		14/2/25	16:35	51.1	
14/2/25	8:40	52.4	14/2/25	12:40	51.1		14/2/25	16:40	50.5	
14/2/25	8:45	54.7	14/2/25	12:45	49.4		14/2/25	16:45	49.9	
14/2/25	8:50	54.4	14/2/25	12:50	50.0		14/2/25	16:50	56.6	
14/2/25	8:55	53.7	14/2/25	12:55	48.9		14/2/25	16:55	49.6	
14/2/25	9:00	52.5	14/2/25	13:00	51.7		14/2/25	17:00	49.6	
14/2/25	9:05	53.6	14/2/25	13:05	48.9		14/2/25	17:05	50.3	
14/2/25	9:10	52.2	14/2/25	13:10	49.1		14/2/25	17:10	50.5	
14/2/25	9:15	61.7	14/2/25	13:15	49.8		14/2/25	17:15	49.7	
14/2/25	9:20	53.5	14/2/25	13:20	55.0		14/2/25	17:20	49.6	
14/2/25	9:25	68.0	14/2/25	13:25	61.7		14/2/25	17:25	51.8	
14/2/25	9:30	52.5	14/2/25	13:30	55.6		14/2/25	17:30	50.5	
14/2/25	9:35	50.8	14/2/25	13:35	50.6		14/2/25	17:35	49.6	
14/2/25	9:40	52.7	14/2/25	13:40	50.2		14/2/25	17:40	49.2	
14/2/25	9:45	50.8	14/2/25	13:45	50.1		14/2/25	17:45	50.0	
14/2/25	9:50	50.8	14/2/25	13:50	50.9		14/2/25	17:50	49.9	
14/2/25	9:55	50.8	14/2/25	13:55	49.7		14/2/25	17:55	50.9	
14/2/25	10:00	50.7	14/2/25	14:00	51.0		14/2/25	18:00	50.1	
14/2/25	10:05	51.2	14/2/25	14:05	50.5		14/2/25	18:05	50.0	
14/2/25	10:10	51.2	14/2/25	14:10	50.7		14/2/25	18:10	51.0	
14/2/25	10:15	52.6	14/2/25	14:15	51.4		14/2/25	18:15	49.4	
14/2/25	10:20	56.4	14/2/25	14:20	51.0		14/2/25	18:20	50.2	
14/2/25	10:25	52.2	14/2/25	14:25	50.7		14/2/25	18:25	50.4	
14/2/25	10:30	57.8	14/2/25	14:30	51.2		14/2/25	18:30	50.2	
14/2/25	10:35	59.6	14/2/25	14:35	52.1		14/2/25	18:35	49.6	
14/2/25	10:40	59.1	14/2/25	14:40	59.0		14/2/25	18:40	48.8	
14/2/25	10:45	52.8	14/2/25	14:45	55.1		14/2/25	18:45	49.9	
14/2/25	10:50	50.9	14/2/25	14:50	53.1		14/2/25	18:50	51.5	
14/2/25	10:55	51.3	14/2/25	14:55	49.4		14/2/25	18:55	50.3	
14/2/25	11:00	50.2	14/2/25	15:00	50.4		14/2/25	19:00	48.9	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd									
SITE LOCATION			NM4 EIA Gillman Barracks									
REPORT REFERENCE			11/02/2025 - 18/02/2025									
Start	14/2/25	19:05	Leq12h	46.2					Weighting		A	
End	15/2/25	7:00										
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	
14/2/25	19:05	48.8	48.7	14/2/25	23:05	48.2	46.3	15/2/25	3:05	42.6	43.0	
14/2/25	19:10	48.8		14/2/25	23:10	46.1		15/2/25	3:10	42.5		
14/2/25	19:15	48.2		14/2/25	23:15	46.5		15/2/25	3:15	42.6		
14/2/25	19:20	49.6		14/2/25	23:20	46.0		15/2/25	3:20	43.4		
14/2/25	19:25	49.4		14/2/25	23:25	47.3		15/2/25	3:25	42.8		
14/2/25	19:30	49.9		14/2/25	23:30	45.9		15/2/25	3:30	42.5		
14/2/25	19:35	47.6		14/2/25	23:35	45.4		15/2/25	3:35	43.1		
14/2/25	19:40	47.9		14/2/25	23:40	45.6		15/2/25	3:40	44.9		
14/2/25	19:45	48.4		14/2/25	23:45	46.8		15/2/25	3:45	42.7		
14/2/25	19:50	48.0		14/2/25	23:50	46.1		15/2/25	3:50	42.8		
14/2/25	19:55	47.7	47.2	14/2/25	23:55	45.2	44.9	15/2/25	3:55	42.6	42.5	
14/2/25	20:00	49.1		14/2/25	0:00	45.6		15/2/25	4:00	42.5		
14/2/25	20:05	46.9		15/2/25	0:05	44.8		15/2/25	4:05	42.3		
14/2/25	20:10	46.7		15/2/25	0:10	45.8		15/2/25	4:10	42.0		
14/2/25	20:15	46.7		15/2/25	0:15	45.9		15/2/25	4:15	42.2		
14/2/25	20:20	46.9		15/2/25	0:20	45.1		15/2/25	4:20	42.4		
14/2/25	20:25	47.5		15/2/25	0:25	45.0		15/2/25	4:25	44.0		
14/2/25	20:30	47.2		15/2/25	0:30	45.0		15/2/25	4:30	43.0		
14/2/25	20:35	46.8		15/2/25	0:35	44.7		15/2/25	4:35	42.5		
14/2/25	20:40	46.4		15/2/25	0:40	44.2		15/2/25	4:40	42.6		
14/2/25	20:45	48.6	47.2	15/2/25	0:45	44.8	43.6	15/2/25	4:45	42.8	42.9	
14/2/25	20:50	47.3		15/2/25	0:50	44.6		15/2/25	4:50	41.9		
14/2/25	20:55	47.1		15/2/25	0:55	44.4		15/2/25	4:55	41.8		
14/2/25	21:00	47.7		15/2/25	1:00	44.2		15/2/25	5:00	41.9		
14/2/25	21:05	46.7		15/2/25	1:05	43.6		15/2/25	5:05	42.1		
14/2/25	21:10	47.5		15/2/25	1:10	44.5		15/2/25	5:10	42.2		
14/2/25	21:15	46.8		15/2/25	1:15	43.8		15/2/25	5:15	41.9		
14/2/25	21:20	48.0		15/2/25	1:20	43.2		15/2/25	5:20	42.2		
14/2/25	21:25	47.2		15/2/25	1:25	43.8		15/2/25	5:25	42.4		
14/2/25	21:30	48.0		15/2/25	1:30	43.7		15/2/25	5:30	42.7		
14/2/25	21:35	47.3	46.8	15/2/25	1:35	43.0	43.5	15/2/25	5:35	44.0	49.6	
14/2/25	21:40	47.3		15/2/25	1:40	43.4		15/2/25	5:40	42.6		
14/2/25	21:45	46.6		15/2/25	1:45	43.8		15/2/25	5:45	42.4		
14/2/25	21:50	47.5		15/2/25	1:50	43.2		15/2/25	5:50	43.6		
14/2/25	21:55	47.2		15/2/25	1:55	43.3		15/2/25	5:55	43.5		
14/2/25	22:00	46.4		15/2/25	2:00	43.1		15/2/25	6:00	44.5		
14/2/25	22:05	46.4		15/2/25	2:05	43.1		15/2/25	6:05	43.1		
14/2/25	22:10	46.0		15/2/25	2:10	43.0		15/2/25	6:10	45.2		
14/2/25	22:15	46.9		15/2/25	2:15	43.5		15/2/25	6:15	50.5		
14/2/25	22:20	46.3		15/2/25	2:20	46.4		15/2/25	6:20	51.6		
14/2/25	22:25	47.0	15/2/25	2:25	43.4	15/2/25	6:25	48.0				
14/2/25	22:30	47.2	15/2/25	2:30	43.8	15/2/25	6:30	47.6				
14/2/25	22:35	45.9	15/2/25	2:35	43.6	15/2/25	6:35	48.7				
14/2/25	22:40	46.7	15/2/25	2:40	42.5	15/2/25	6:40	49.9				
14/2/25	22:45	47.7	15/2/25	2:45	42.8	15/2/25	6:45	48.4				
14/2/25	22:50	47.0	15/2/25	2:50	42.9	15/2/25	6:50	48.2				
14/2/25	22:55	47.2	15/2/25	2:55	42.6	15/2/25	6:55	52.1				
14/2/25	23:00	47.0	15/2/25	3:00	43.0	15/2/25	7:00	53.1				

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM4 EIA Gillman Barracks								
REPORT REFERENCE			11/02/2025 - 18/02/2025								
Start	15/2/25	7:05	Leq12h			55.0	Weighting			A	
End	15/2/25	19:00									
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m			
15/2/25	7:05	50.9	15/2/25	11:05	49.3	15/2/25	15:05	50.8			
15/2/25	7:10	50.1	15/2/25	11:10	50.6	15/2/25	15:10	49.7			
15/2/25	7:15	54.9	15/2/25	11:15	51.2	15/2/25	15:15	53.2			
15/2/25	7:20	51.8	15/2/25	11:20	54.1	15/2/25	15:20	63.8			
15/2/25	7:25	52.1	15/2/25	11:25	51.1	15/2/25	15:25	60.5			
15/2/25	7:30	52.0	15/2/25	11:30	52.7	15/2/25	15:30	56.5			
15/2/25	7:35	52.3	15/2/25	11:35	51.7	15/2/25	15:35	56.2			
15/2/25	7:40	49.1	15/2/25	11:40	50.2	15/2/25	15:40	55.1			
15/2/25	7:45	49.7	15/2/25	11:45	49.9	15/2/25	15:45	58.1			
15/2/25	7:50	49.8	15/2/25	11:50	50.9	15/2/25	15:50	60.3			
15/2/25	7:55	49.9	15/2/25	11:55	50.5	15/2/25	15:55	60.3			
15/2/25	8:00	52.1	15/2/25	12:00	50.6	15/2/25	16:00	60.6			
15/2/25	8:05	50.9	15/2/25	12:05	52.8	15/2/25	16:05	51.8			
15/2/25	8:10	49.6	15/2/25	12:10	49.3	15/2/25	16:10	55.7			
15/2/25	8:15	52.1	15/2/25	12:15	51.6	15/2/25	16:15	51.8			
15/2/25	8:20	50.7	15/2/25	12:20	50.5	15/2/25	16:20	64.0			
15/2/25	8:25	52.3	15/2/25	12:25	52.9	15/2/25	16:25	66.5			
15/2/25	8:30	50.6	15/2/25	12:30	50.1	15/2/25	16:30	63.1			
15/2/25	8:35	48.8	15/2/25	12:35	51.4	15/2/25	16:35	62.5			
15/2/25	8:40	51.5	15/2/25	12:40	50.2	15/2/25	16:40	59.8			
15/2/25	8:45	53.9	15/2/25	12:45	49.9	15/2/25	16:45	58.7			
15/2/25	8:50	52.8	15/2/25	12:50	50.2	15/2/25	16:50	60.0			
15/2/25	8:55	52.8	15/2/25	12:55	50.2	15/2/25	16:55	53.5			
15/2/25	9:00	51.5	15/2/25	13:00	49.9	15/2/25	17:00	51.2			
15/2/25	9:05	49.4	15/2/25	13:05	49.7	15/2/25	17:05	51.7			
15/2/25	9:10	49.8	15/2/25	13:10	48.9	15/2/25	17:10	51.3			
15/2/25	9:15	50.6	15/2/25	13:15	50.0	15/2/25	17:15	52.1			
15/2/25	9:20	50.5	15/2/25	13:20	49.7	15/2/25	17:20	54.1			
15/2/25	9:25	49.6	15/2/25	13:25	49.0	15/2/25	17:25	52.8			
15/2/25	9:30	49.3	15/2/25	13:30	50.6	15/2/25	17:30	54.9			
15/2/25	9:35	50.4	15/2/25	13:35	49.0	15/2/25	17:35	55.6			
15/2/25	9:40	51.1	15/2/25	13:40	52.5	15/2/25	17:40	51.7			
15/2/25	9:45	51.2	15/2/25	13:45	50.0	15/2/25	17:45	50.5			
15/2/25	9:50	50.3	15/2/25	13:50	50.4	15/2/25	17:50	50.4			
15/2/25	9:55	50.3	15/2/25	13:55	50.4	15/2/25	17:55	50.9			
15/2/25	10:00	49.9	15/2/25	14:00	50.0	15/2/25	18:00	50.1			
15/2/25	10:05	49.4	15/2/25	14:05	50.8	15/2/25	18:05	49.5			
15/2/25	10:10	52.6	15/2/25	14:10	49.4	15/2/25	18:10	50.4			
15/2/25	10:15	49.0	15/2/25	14:15	49.7	15/2/25	18:15	50.9			
15/2/25	10:20	49.2	15/2/25	14:20	51.3	15/2/25	18:20	50.1			
15/2/25	10:25	52.8	15/2/25	14:25	51.1	15/2/25	18:25	67.5			
15/2/25	10:30	49.9	15/2/25	14:30	51.9	15/2/25	18:30	49.7			
15/2/25	10:35	53.4	15/2/25	14:35	51.3	15/2/25	18:35	48.4			
15/2/25	10:40	50.0	15/2/25	14:40	51.4	15/2/25	18:40	48.3			
15/2/25	10:45	49.5	15/2/25	14:45	51.6	15/2/25	18:45	48.3			
15/2/25	10:50	50.3	15/2/25	14:50	60.3	15/2/25	18:50	48.7			
15/2/25	10:55	50.0	15/2/25	14:55	49.1	15/2/25	18:55	49.7			
15/2/25	11:00	49.9	15/2/25	15:00	50.2	15/2/25	19:00	49.9			

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd									
SITE LOCATION			NM4 EIA Gillman Barracks									
REPORT REFERENCE			11/02/2025 - 18/02/2025									
Start	15/2/25		19:05	Leq12h		46.4		Weighting		A		
End	16/2/25		7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	
15/2/25	19:05	49.7	48.4	15/2/25	23:05	47.6	46.6	16/2/25	3:05	43.6	43.5	
15/2/25	19:10	49.1		15/2/25	23:10	46.6		16/2/25	3:10	43.4		
15/2/25	19:15	48.2		15/2/25	23:15	46.9		16/2/25	3:15	43.8		
15/2/25	19:20	49.0		15/2/25	23:20	46.4		16/2/25	3:20	44.1		
15/2/25	19:25	48.1		15/2/25	23:25	47.3		16/2/25	3:25	43.1		
15/2/25	19:30	48.0		15/2/25	23:30	46.9		16/2/25	3:30	43.2		
15/2/25	19:35	48.6		15/2/25	23:35	45.9		16/2/25	3:35	43.4		
15/2/25	19:40	48.0		15/2/25	23:40	47.2		16/2/25	3:40	43.3		
15/2/25	19:45	48.3		15/2/25	23:45	46.3		16/2/25	3:45	43.9		
15/2/25	19:50	48.0		15/2/25	23:50	46.3		16/2/25	3:50	43.5		
15/2/25	19:55	47.4	48.2	15/2/25	23:55	45.8	45.2	16/2/25	3:55	43.4	43.3	
15/2/25	20:00	48.0		15/2/25	0:00	46.1		16/2/25	4:00	43.5		
15/2/25	20:05	48.2		16/2/25	0:05	45.6		16/2/25	4:05	43.0		
15/2/25	20:10	48.2		16/2/25	0:10	45.7		16/2/25	4:10	43.4		
15/2/25	20:15	49.0		16/2/25	0:15	45.3		16/2/25	4:15	43.2		
15/2/25	20:20	49.3		16/2/25	0:20	44.4		16/2/25	4:20	44.2		
15/2/25	20:25	48.2		16/2/25	0:25	44.7		16/2/25	4:25	43.4		
15/2/25	20:30	48.0		16/2/25	0:30	44.8		16/2/25	4:30	43.8		
15/2/25	20:35	48.0		16/2/25	0:35	45.0		16/2/25	4:35	43.2		
15/2/25	20:40	48.1		16/2/25	0:40	45.3		16/2/25	4:40	43.1		
15/2/25	20:45	48.1	47.9	16/2/25	0:45	46.7	44.9	16/2/25	4:45	42.9	43.2	
15/2/25	20:50	47.7		16/2/25	0:50	44.4		16/2/25	4:50	43.1		
15/2/25	20:55	47.6		16/2/25	0:55	45.5		16/2/25	4:55	43.4		
15/2/25	21:00	47.7		16/2/25	1:00	44.8		16/2/25	5:00	43.3		
15/2/25	21:05	47.4		16/2/25	1:05	43.8		16/2/25	5:05	43.4		
15/2/25	21:10	48.2		16/2/25	1:10	44.3		16/2/25	5:10	43.3		
15/2/25	21:15	48.0		16/2/25	1:15	44.6		16/2/25	5:15	43.1		
15/2/25	21:20	49.1		16/2/25	1:20	44.3		16/2/25	5:20	43.6		
15/2/25	21:25	47.5		16/2/25	1:25	44.2		16/2/25	5:25	42.6		
15/2/25	21:30	48.1		16/2/25	1:30	44.6		16/2/25	5:30	42.7		
15/2/25	21:35	48.2	47.4	16/2/25	1:35	43.9	44.3	16/2/25	5:35	42.6	48.3	
15/2/25	21:40	47.7		16/2/25	1:40	47.9		16/2/25	5:40	43.1		
15/2/25	21:45	47.4		16/2/25	1:45	47.2		16/2/25	5:45	42.5		
15/2/25	21:50	47.0		16/2/25	1:50	43.6		16/2/25	5:50	42.5		
15/2/25	21:55	48.4		16/2/25	1:55	43.8		16/2/25	5:55	44.2		
15/2/25	22:00	47.1		16/2/25	2:00	43.5		16/2/25	6:00	43.8		
15/2/25	22:05	46.5		16/2/25	2:05	43.7		16/2/25	6:05	44.9		
15/2/25	22:10	47.8		16/2/25	2:10	44.1		16/2/25	6:10	44.0		
15/2/25	22:15	47.1		16/2/25	2:15	43.5		16/2/25	6:15	45.1		
15/2/25	22:20	47.9		16/2/25	2:20	44.0		16/2/25	6:20	47.4		
15/2/25	22:25	48.3	16/2/25	2:25	45.5	16/2/25	6:25	48.0				
15/2/25	22:30	47.4	16/2/25	2:30	44.2	16/2/25	6:30	49.2				
15/2/25	22:35	48.4	16/2/25	2:35	43.8	16/2/25	6:35	49.0				
15/2/25	22:40	47.4	16/2/25	2:40	43.8	16/2/25	6:40	48.4				
15/2/25	22:45	47.0	16/2/25	2:45	44.1	16/2/25	6:45	48.6				
15/2/25	22:50	46.7	16/2/25	2:50	45.3	16/2/25	6:50	49.7				
15/2/25	22:55	46.5	47.4	16/2/25	2:55	44.2	44.3	16/2/25	6:55	50.2		
15/2/25	23:00	47.4		16/2/25	3:00	44.4		16/2/25	7:00	50.4		

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM4 EIA Gillman Barracks						
REPORT REFERENCE			11/02/2025 - 18/02/2025						
Start	16/2/25	7:05	Leq12h	49.3	Weighting			A	
End	16/2/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m	
16/2/25	7:05	50.4	16/2/25	11:05	48.2	16/2/25	15:05	49.4	
16/2/25	7:10	49.7	16/2/25	11:10	49.0	16/2/25	15:10	48.6	
16/2/25	7:15	50.2	16/2/25	11:15	49.9	16/2/25	15:15	47.9	
16/2/25	7:20	51.2	16/2/25	11:20	49.1	16/2/25	15:20	48.3	
16/2/25	7:25	51.0	16/2/25	11:25	48.9	16/2/25	15:25	50.0	
16/2/25	7:30	48.9	16/2/25	11:30	48.1	16/2/25	15:30	48.5	
16/2/25	7:35	49.2	16/2/25	11:35	48.0	16/2/25	15:35	47.9	
16/2/25	7:40	50.0	16/2/25	11:40	47.4	16/2/25	15:40	47.8	
16/2/25	7:45	48.4	16/2/25	11:45	48.0	16/2/25	15:45	50.6	
16/2/25	7:50	47.7	16/2/25	11:50	48.4	16/2/25	15:50	49.8	
16/2/25	7:55	48.0	16/2/25	11:55	52.2	16/2/25	15:55	48.6	
16/2/25	8:00	48.8	16/2/25	12:00	51.5	16/2/25	16:00	47.3	
16/2/25	8:05	49.1	16/2/25	12:05	47.8	16/2/25	16:05	48.7	
16/2/25	8:10	48.6	16/2/25	12:10	47.0	16/2/25	16:10	49.2	
16/2/25	8:15	50.2	16/2/25	12:15	47.7	16/2/25	16:15	49.5	
16/2/25	8:20	48.5	16/2/25	12:20	46.5	16/2/25	16:20	48.9	
16/2/25	8:25	48.7	16/2/25	12:25	48.9	16/2/25	16:25	48.8	
16/2/25	8:30	49.4	16/2/25	12:30	50.6	16/2/25	16:30	49.8	
16/2/25	8:35	48.2	16/2/25	12:35	48.1	16/2/25	16:35	49.4	
16/2/25	8:40	48.8	16/2/25	12:40	49.4	16/2/25	16:40	48.5	
16/2/25	8:45	49.5	16/2/25	12:45	49.2	16/2/25	16:45	48.8	
16/2/25	8:50	47.8	16/2/25	12:50	55.0	16/2/25	16:50	49.0	
16/2/25	8:55	48.2	16/2/25	12:55	51.1	16/2/25	16:55	49.2	
16/2/25	9:00	49.7	16/2/25	13:00	48.7	16/2/25	17:00	50.5	
16/2/25	9:05	47.9	16/2/25	13:05	48.2	16/2/25	17:05	49.9	
16/2/25	9:10	48.7	16/2/25	13:10	48.3	16/2/25	17:10	49.7	
16/2/25	9:15	48.4	16/2/25	13:15	48.1	16/2/25	17:15	48.1	
16/2/25	9:20	48.5	16/2/25	13:20	48.6	16/2/25	17:20	49.5	
16/2/25	9:25	50.3	16/2/25	13:25	48.5	16/2/25	17:25	49.5	
16/2/25	9:30	49.0	16/2/25	13:30	49.2	16/2/25	17:30	48.1	
16/2/25	9:35	49.2	16/2/25	13:35	48.1	16/2/25	17:35	48.8	
16/2/25	9:40	50.0	16/2/25	13:40	49.4	16/2/25	17:40	50.1	
16/2/25	9:45	50.0	16/2/25	13:45	48.5	16/2/25	17:45	53.4	
16/2/25	9:50	49.6	16/2/25	13:50	48.8	16/2/25	17:50	49.4	
16/2/25	9:55	49.7	16/2/25	13:55	48.5	16/2/25	17:55	52.3	
16/2/25	10:00	49.2	16/2/25	14:00	48.7	16/2/25	18:00	52.2	
16/2/25	10:05	49.4	16/2/25	14:05	47.7	16/2/25	18:05	50.9	
16/2/25	10:10	49.6	16/2/25	14:10	49.2	16/2/25	18:10	49.9	
16/2/25	10:15	48.8	16/2/25	14:15	49.8	16/2/25	18:15	48.2	
16/2/25	10:20	49.0	16/2/25	14:20	49.6	16/2/25	18:20	51.3	
16/2/25	10:25	48.6	16/2/25	14:25	48.2	16/2/25	18:25	51.4	
16/2/25	10:30	50.0	16/2/25	14:30	49.4	16/2/25	18:30	48.8	
16/2/25	10:35	49.9	16/2/25	14:35	48.4	16/2/25	18:35	48.9	
16/2/25	10:40	48.7	16/2/25	14:40	48.9	16/2/25	18:40	49.8	
16/2/25	10:45	48.4	16/2/25	14:45	48.3	16/2/25	18:45	48.7	
16/2/25	10:50	48.1	16/2/25	14:50	49.0	16/2/25	18:50	48.0	
16/2/25	10:55	48.6	16/2/25	14:55	48.3	16/2/25	18:55	48.9	
16/2/25	11:00	49.4	16/2/25	15:00	49.0	16/2/25	19:00	48.6	

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM4 EIA Gillman Barracks							
REPORT REFERENCE				11/02/2025 - 18/02/2025							
Start	16/2/25	19:05		Leq12h	46.2			Weighting		A	
End	17/2/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
16/2/25	19:05	48.9		16/2/25	23:05	45.2		17/2/25	3:05	43.4	
16/2/25	19:10	47.7		16/2/25	23:10	45.5		17/2/25	3:10	43.5	
16/2/25	19:15	47.7		16/2/25	23:15	45.0		17/2/25	3:15	42.9	
16/2/25	19:20	51.0		16/2/25	23:20	45.2		17/2/25	3:20	43.2	
16/2/25	19:25	47.5		16/2/25	23:25	45.3		17/2/25	3:25	43.3	
16/2/25	19:30	48.3		16/2/25	23:30	45.1		17/2/25	3:30	43.4	
16/2/25	19:35	47.6		16/2/25	23:35	44.8		17/2/25	3:35	43.2	
16/2/25	19:40	48.0		16/2/25	23:40	45.5		17/2/25	3:40	42.9	
16/2/25	19:45	53.2		16/2/25	23:45	44.5		17/2/25	3:45	43.9	
16/2/25	19:50	48.3		16/2/25	23:50	44.5		17/2/25	3:50	43.5	
16/2/25	19:55	47.7		16/2/25	23:55	44.5		17/2/25	3:55	42.8	
16/2/25	20:00	48.9	49.1	16/2/25	0:00	44.1	45.0	17/2/25	4:00	42.8	43.2
16/2/25	20:05	46.9		17/2/25	0:05	45.8		17/2/25	4:05	43.4	
16/2/25	20:10	47.8		17/2/25	0:10	45.2		17/2/25	4:10	43.4	
16/2/25	20:15	48.0		17/2/25	0:15	45.2		17/2/25	4:15	43.2	
16/2/25	20:20	47.7		17/2/25	0:20	44.3		17/2/25	4:20	43.4	
16/2/25	20:25	48.2		17/2/25	0:25	44.3		17/2/25	4:25	43.2	
16/2/25	20:30	46.7		17/2/25	0:30	45.0		17/2/25	4:30	42.9	
16/2/25	20:35	47.2		17/2/25	0:35	44.3		17/2/25	4:35	43.2	
16/2/25	20:40	47.6		17/2/25	0:40	44.6		17/2/25	4:40	43.1	
16/2/25	20:45	47.6		17/2/25	0:45	44.0		17/2/25	4:45	43.3	
16/2/25	20:50	46.9		17/2/25	0:50	44.3		17/2/25	4:50	42.8	
16/2/25	20:55	47.1		17/2/25	0:55	44.0		17/2/25	4:55	43.6	
16/2/25	21:00	47.0	47.4	17/2/25	1:00	44.0	44.6	17/2/25	5:00	43.3	43.2
16/2/25	21:05	46.7		17/2/25	1:05	43.4		17/2/25	5:05	43.2	
16/2/25	21:10	46.7		17/2/25	1:10	43.4		17/2/25	5:10	43.4	
16/2/25	21:15	46.6		17/2/25	1:15	43.6		17/2/25	5:15	43.2	
16/2/25	21:20	46.7		17/2/25	1:20	43.6		17/2/25	5:20	44.1	
16/2/25	21:25	47.3		17/2/25	1:25	44.1		17/2/25	5:25	43.7	
16/2/25	21:30	46.3		17/2/25	1:30	43.8		17/2/25	5:30	44.3	
16/2/25	21:35	46.7		17/2/25	1:35	43.9		17/2/25	5:35	44.0	
16/2/25	21:40	48.6		17/2/25	1:40	43.7		17/2/25	5:40	44.3	
16/2/25	21:45	46.3		17/2/25	1:45	44.2		17/2/25	5:45	43.9	
16/2/25	21:50	46.8		17/2/25	1:50	43.8		17/2/25	5:50	45.0	
16/2/25	21:55	46.9		17/2/25	1:55	43.8		17/2/25	5:55	47.0	
16/2/25	22:00	46.3	46.9	17/2/25	2:00	43.7	43.8	17/2/25	6:00	46.2	44.5
16/2/25	22:05	46.6		17/2/25	2:05	44.3		17/2/25	6:05	45.6	
16/2/25	22:10	47.0		17/2/25	2:10	44.2		17/2/25	6:10	45.4	
16/2/25	22:15	46.3		17/2/25	2:15	43.3		17/2/25	6:15	47.4	
16/2/25	22:20	45.8		17/2/25	2:20	43.2		17/2/25	6:20	47.9	
16/2/25	22:25	46.4		17/2/25	2:25	42.9		17/2/25	6:25	48.3	
16/2/25	22:30	45.6		17/2/25	2:30	43.1		17/2/25	6:30	49.3	
16/2/25	22:35	45.5		17/2/25	2:35	42.9		17/2/25	6:35	49.6	
16/2/25	22:40	47.5		17/2/25	2:40	43.0		17/2/25	6:40	51.4	
16/2/25	22:45	45.3		17/2/25	2:45	44.1		17/2/25	6:45	50.0	
16/2/25	22:50	45.9		17/2/25	2:50	43.9		17/2/25	6:50	51.3	
16/2/25	22:55	45.6		17/2/25	2:55	43.7		17/2/25	6:55	51.0	
16/2/25	23:00	47.1	46.3	17/2/25	3:00	43.6	43.5	17/2/25	7:00	51.8	49.5

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd									
SITE LOCATION			NM4 EIA Gillman Barracks									
REPORT REFERENCE			11/02/2025 - 18/02/2025									
Start	17/2/25	7:05	Leq12h			54.7	Weighting			A		
End	17/2/25	19:00										
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m				
17/2/25	7:05	52.4	17/2/25	11:05	51.9	17/2/25	15:05	53.9				
17/2/25	7:10	51.4	17/2/25	11:10	56.4	17/2/25	15:10	53.5				
17/2/25	7:15	53.8	17/2/25	11:15	52.6	17/2/25	15:15	53.7				
17/2/25	7:20	60.9	17/2/25	11:20	57.9	17/2/25	15:20	56.0				
17/2/25	7:25	51.8	17/2/25	11:25	55.8	17/2/25	15:25	56.8				
17/2/25	7:30	54.0	17/2/25	11:30	58.0	17/2/25	15:30	55.7				
17/2/25	7:35	50.6	17/2/25	11:35	59.2	17/2/25	15:35	53.6				
17/2/25	7:40	51.2	17/2/25	11:40	55.3	17/2/25	15:40	53.3				
17/2/25	7:45	51.0	17/2/25	11:45	51.6	17/2/25	15:45	56.0				
17/2/25	7:50	51.2	17/2/25	11:50	52.8	17/2/25	15:50	61.2				
17/2/25	7:55	52.6	17/2/25	11:55	49.4	17/2/25	15:55	64.0				
17/2/25	8:00	53.4	17/2/25	12:00	49.7	17/2/25	16:00	60.1				
17/2/25	8:05	55.6	17/2/25	12:05	49.8	17/2/25	16:05	55.2				
17/2/25	8:10	53.8	17/2/25	12:10	51.0	17/2/25	16:10	53.6				
17/2/25	8:15	52.0	17/2/25	12:15	51.0	17/2/25	16:15	52.4				
17/2/25	8:20	56.2	17/2/25	12:20	49.5	17/2/25	16:20	55.1				
17/2/25	8:25	55.3	17/2/25	12:25	49.9	17/2/25	16:25	55.1				
17/2/25	8:30	51.7	17/2/25	12:30	62.2	17/2/25	16:30	57.1				
17/2/25	8:35	52.4	17/2/25	12:35	62.0	17/2/25	16:35	59.3				
17/2/25	8:40	50.8	17/2/25	12:40	50.2	17/2/25	16:40	54.6				
17/2/25	8:45	51.9	17/2/25	12:45	48.8	17/2/25	16:45	56.2				
17/2/25	8:50	52.3	17/2/25	12:50	49.3	17/2/25	16:50	54.7				
17/2/25	8:55	52.0	17/2/25	12:55	50.6	17/2/25	16:55	53.0				
17/2/25	9:00	52.1	17/2/25	13:00	50.0	17/2/25	17:00	53.2				
17/2/25	9:05	50.9	17/2/25	13:05	48.9	17/2/25	17:05	53.7				
17/2/25	9:10	51.5	17/2/25	13:10	49.2	17/2/25	17:10	53.2				
17/2/25	9:15	54.3	17/2/25	13:15	49.5	17/2/25	17:15	53.2				
17/2/25	9:20	51.9	17/2/25	13:20	50.4	17/2/25	17:20	53.4				
17/2/25	9:25	50.2	17/2/25	13:25	52.1	17/2/25	17:25	52.7				
17/2/25	9:30	50.6	17/2/25	13:30	51.3	17/2/25	17:30	52.8				
17/2/25	9:35	50.0	17/2/25	13:35	50.5	17/2/25	17:35	54.1				
17/2/25	9:40	51.7	17/2/25	13:40	50.0	17/2/25	17:40	53.5				
17/2/25	9:45	53.0	17/2/25	13:45	50.5	17/2/25	17:45	51.7				
17/2/25	9:50	50.5	17/2/25	13:50	50.9	17/2/25	17:50	52.4				
17/2/25	9:55	56.6	17/2/25	13:55	50.4	17/2/25	17:55	51.5				
17/2/25	10:00	55.3	17/2/25	14:00	51.4	17/2/25	18:00	52.0				
17/2/25	10:05	56.0	17/2/25	14:05	53.6	17/2/25	18:05	53.0				
17/2/25	10:10	52.6	17/2/25	14:10	50.8	17/2/25	18:10	52.8				
17/2/25	10:15	51.0	17/2/25	14:15	53.0	17/2/25	18:15	51.7				
17/2/25	10:20	49.9	17/2/25	14:20	56.1	17/2/25	18:20	51.3				
17/2/25	10:25	62.4	17/2/25	14:25	51.5	17/2/25	18:25	50.9				
17/2/25	10:30	56.0	17/2/25	14:30	53.0	17/2/25	18:30	51.9				
17/2/25	10:35	58.6	17/2/25	14:35	62.7	17/2/25	18:35	51.4				
17/2/25	10:40	53.1	17/2/25	14:40	53.2	17/2/25	18:40	50.9				
17/2/25	10:45	51.3	17/2/25	14:45	53.8	17/2/25	18:45	51.6				
17/2/25	10:50	52.4	17/2/25	14:50	54.3	17/2/25	18:50	51.2				
17/2/25	10:55	53.7	17/2/25	14:55	53.9	17/2/25	18:55	50.1				
17/2/25	11:00	58.0	17/2/25	15:00	53.5	17/2/25	19:00	50.0				

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM4 EIA Gillman Barracks							
REPORT REFERENCE				11/02/2025 - 18/02/2025							
Start	17/2/25	19:05		Leq12h	48.7			Weighting		A	
End	18/2/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
17/2/25	19:05	49.2	53.8	17/2/25	23:05	46.5	46.2	18/2/25	3:05	43.1	43.3
17/2/25	19:10	49.6		17/2/25	23:10	46.5		18/2/25	3:10	43.1	
17/2/25	19:15	54.6		17/2/25	23:15	47.3		18/2/25	3:15	43.5	
17/2/25	19:20	61.8		17/2/25	23:20	47.0		18/2/25	3:20	44.2	
17/2/25	19:25	48.6		17/2/25	23:25	45.9		18/2/25	3:25	43.3	
17/2/25	19:30	47.9		17/2/25	23:30	46.3		18/2/25	3:30	43.5	
17/2/25	19:35	52.9		17/2/25	23:35	45.6		18/2/25	3:35	43.1	
17/2/25	19:40	49.1		17/2/25	23:40	46.1		18/2/25	3:40	43.0	
17/2/25	19:45	48.8		17/2/25	23:45	46.9		18/2/25	3:45	43.1	
17/2/25	19:50	53.6		17/2/25	23:50	45.5		18/2/25	3:50	43.2	
17/2/25	19:55	49.0	51.9	17/2/25	23:55	44.9	44.6	18/2/25	3:55	42.9	43.2
17/2/25	20:00	49.4		17/2/25	0:00	45.2		18/2/25	4:00	43.6	
17/2/25	20:05	48.7		18/2/25	0:05	45.1		18/2/25	4:05	43.2	
17/2/25	20:10	48.5		18/2/25	0:10	45.2		18/2/25	4:10	43.1	
17/2/25	20:15	51.3		18/2/25	0:15	45.5		18/2/25	4:15	43.0	
17/2/25	20:20	49.4		18/2/25	0:20	43.8		18/2/25	4:20	43.1	
17/2/25	20:25	53.2		18/2/25	0:25	44.4		18/2/25	4:25	43.2	
17/2/25	20:30	58.8		18/2/25	0:30	44.6		18/2/25	4:30	43.1	
17/2/25	20:35	50.0		18/2/25	0:35	43.7		18/2/25	4:35	43.1	
17/2/25	20:40	49.6		18/2/25	0:40	45.2		18/2/25	4:40	43.5	
17/2/25	20:45	49.4	49.8	18/2/25	0:45	44.5	43.8	18/2/25	4:45	43.1	45.4
17/2/25	20:50	49.3		18/2/25	0:50	44.4		18/2/25	4:50	43.2	
17/2/25	20:55	49.0		18/2/25	0:55	44.4		18/2/25	4:55	43.1	
17/2/25	21:00	48.9		18/2/25	1:00	44.0		18/2/25	5:00	43.4	
17/2/25	21:05	48.5		18/2/25	1:05	43.7		18/2/25	5:05	43.5	
17/2/25	21:10	49.4		18/2/25	1:10	43.4		18/2/25	5:10	44.0	
17/2/25	21:15	49.3		18/2/25	1:15	43.6		18/2/25	5:15	43.7	
17/2/25	21:20	48.8		18/2/25	1:20	43.9		18/2/25	5:20	43.6	
17/2/25	21:25	48.0		18/2/25	1:25	44.3		18/2/25	5:25	43.9	
17/2/25	21:30	48.0		18/2/25	1:30	44.9		18/2/25	5:30	45.1	
17/2/25	21:35	48.9	47.4	18/2/25	1:35	43.8	43.3	18/2/25	5:35	45.8	51.6
17/2/25	21:40	48.0		18/2/25	1:40	44.0		18/2/25	5:40	46.5	
17/2/25	21:45	55.1		18/2/25	1:45	43.4		18/2/25	5:45	46.4	
17/2/25	21:50	50.8		18/2/25	1:50	43.2		18/2/25	5:50	46.6	
17/2/25	21:55	47.8		18/2/25	1:55	43.4		18/2/25	5:55	46.7	
17/2/25	22:00	48.0		18/2/25	2:00	43.7		18/2/25	6:00	46.8	
17/2/25	22:05	47.8		18/2/25	2:05	43.1		18/2/25	6:05	47.2	
17/2/25	22:10	47.0		18/2/25	2:10	43.0		18/2/25	6:10	51.7	
17/2/25	22:15	47.5		18/2/25	2:15	43.1		18/2/25	6:15	52.3	
17/2/25	22:20	47.3		18/2/25	2:20	43.2		18/2/25	6:20	53.7	
17/2/25	22:25	47.7	47.4	18/2/25	2:25	43.4	43.3	18/2/25	6:25	50.6	
17/2/25	22:30	48.2		18/2/25	2:30	43.1		18/2/25	6:30	50.8	
17/2/25	22:35	48.4		18/2/25	2:35	43.4		18/2/25	6:35	51.7	
17/2/25	22:40	47.9		18/2/25	2:40	43.6		18/2/25	6:40	51.3	
17/2/25	22:45	46.8		18/2/25	2:45	43.2		18/2/25	6:45	50.6	
17/2/25	22:50	45.8		18/2/25	2:50	43.6		18/2/25	6:50	51.1	
17/2/25	22:55	46.8		18/2/25	2:55	43.5		18/2/25	6:55	52.3	
17/2/25	23:00	47.1		18/2/25	3:00	43.5		18/2/25	7:00	52.6	

CONFIDENTIAL

BASELINE NOISE SURVEY REPORT
NOISE MONITORING ENVIRONMENTAL WORK

REPORT REFERENCE NO: - 25022508/nms/ch2m/NM2GB/NM5

For

CH2M HILL SINGAPORE PTE LTD
150 Beach Road, Gateway West 34th Floor, Singapore 189720

Project Location:
NM5 EIA Gillman Barracks

Attention:
Ms Alicia Wong

Project Title.:
Baseline Noise Survey @ NM5 EIA Gillman Barracks

Monitoring Location:
NM5 (Ground Level at 2 Telok Blangah St 31)

Date of Monitoring:
11 February 2025 - 18 February 2025

Date of Report:
25 February 2025

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	TABLE OF CONTENT	PAGE
1.0	INTRODUCTION	3
2.0	NOISE SURVEY CONDITION	3
3.0	INSTRUMENTS	4
4.0	NOISE SURVEY TERMS	5
5.0	SURVEYING LOCATIONS	6
6.0	NOISE SURVEY RESULTS	7
7.0	SUMMARY	12
8.0	CONFIRMATION	12
	APPENDIX	
	APPENDIX A: INSTRUMENT LAYOUT PLAN	13
	APPENDIX B: NEA CONSTRUCTION NOISE CONTROL GUIDELINE	14
	APPENDIX C: NOISE MONITORING OFFICER CERTIFICATES	15
	APPENDIX D: INSTRUMENT CALIBRATION CERTIFICATES	17
	APPENDIX E: NOISE DATA	19

1.0 INTRODUCTION

ENSSCOM PTE LTD was commissioned by:

CH2M HILL Singapore Pte Ltd
150 Beach Road, Gateway West 34th Floor, Singapore 189720

The purpose of this survey was to assess the current acoustical environment to establish the baseline background noise level generated before start of construction activities for
Project Title - Baseline Noise Survey @ NM5 EIA Gillman Barracks

The survey is conducted in accordance to the Construction Noise control Guideline on NEA's permissible noise levels for construction sites and industrial premises.

2.0 NOISE SURVEY CONDITION

Report Reference No: 25022508/nms/ch2m/NM2GB/NM5

Date of Report: 25-Feb-2025

Survey On: 11-Feb-2025 (0700hrs) to 18-Feb-2025 (0700hrs)

Operating Condition of Site: All operations were under normal conditions during the noise survey. Construction activities have not begun during period of noise monitoring.

Noise survey was conducted using accepted standard procedures and appropriate sound measuring equipment, which is properly calibrated to ensure accuracy.

All noise measurements were made in terms of A-weighted equivalent continuous sound pressure level in LAeq,T over a period of time T. For example, LAeq,5min are the equivalent sound pressure level measured over a 5-minutes time.

Noise survey was conducted for a full continuous twenty-four (24) hours, Seven (7) days, for **One (1) monitoring points/location**. The noise levels emitted were monitored accordingly and recorded.

The survey is conducted by qualified noise monitoring personnel and reference to Appendix C for their certificate.

3.0 INSTRUMENTS

Monitoring instrument was positioned at between 1.8 meters to 3 meters in height from the floor (Ground Level), Mid Level (5 – 6 storey building height) Or High Level (Roof Level). Overall noise distribution was fairly homogenous throughout the duration of noise survey.

Sound Level Meter used complies and conform to the minimum requirements of a Type 1/Class 1 instrument specified in the International Electrotechnical Commission (IEC) publications of 60651 and 60804.

Before and after the noise measurements, the sound level meter is calibrated to verify the accuracy of the instrument.

3.1 Sound Level Meters

CIRRUS RESEARCH plc, Model: CR191SG
Class 1 Data Logging Sound Level Meter
Serial Number: **G068829**

3.2 Acoustic Calibrator

CIRRUS RESEARCH plc, Model: CR515
Acoustic Calibrator
Serial Number: **60614**

Acoustic Pressure level:	94.01 dB	(reference 20uPa)
Step +20dB:	113.93 dB	
Nominal Frequency:	992 Hz	

The calibration certificate of the monitoring instrument can be found in Appendix D

4.0 NOISE SURVEY TERMS

- 4.1 A Weighting
A standard weighting of the audible frequencies designed to reflect the response of the human ear to noise.
- 4.2 Acoustic Calibrator
An instrument that provides a reference noise source that is used to calibrate and check the performance of a Sound Level Meter.
- 4.3 Broadband
Noise Measurements using parameters, which include all the audible noise
- 4.4 dB(A)
Decibels A Weighted
- 4.5 Decibel (dB)
The units of sound level and noise exposure measurement
- 4.6 Fast Time Weighting
A standard time weighting applied by the Sound Level Meter
- 4.7 IEC 60651:1979
The International Standard for Sound Level Meters
- 4.8 IEC 60804:1984
The International Standard for Integrating & Integrating-Averaging Sound Level Meters
- 4.9 IEC 61260:1995
The International Standard for 1:1 Octave & 1:3 Octave Band Filters
- 4.10 IEC 61672-1:2003
The International Standard for Sound Level Meter and Integrating Averaging Sound Level Meters that replaces both IEC 60651 and IEC 60804
- 4.11 Integrating Averaging Sound Level Meter
A Sound Level Meter which accumulates the total sound energy over a measurement period and calculates an average
- 4.12 LAeq,t
Equivalent continuous sound pressure level. A measure of the average sound pressure level during a period of time, t, in dB with 'A' weighting.
- 4.13 Sound Level
Sound Pressure Level with a Frequency weighting, such as dB(A)
- 4.14 Sound Level Meter
An instrument for measuring various noise parameters
- 4.15 Sound Pressure Level, SPL.
The basic measure of noise loudness, expressed in decibels

5.0 SURVEYING LOCATIONS

To carry out One (1) monitoring points/locations for continuous twenty-four (24) hours, Seven (7) days noise monitoring at the boundary of proposed construction site. (Refer to Appendix A for instrument layout plan)

Possible noise contribution source and occurrence:

NOISE MONITORING LOCATION	NOISE SOURCE	OCCURRENCE
Point NM5 : Front Of 2 Telok Blangah St 31 	Vehicle Traffic Animals in the forest	Medium - Vehicle Traffic along West Coast Highway High - From animals and insects living within the forested area

Note: The above-mentioned noise sources may be limited and there are possible other noise sources not detected during the time of our site survey. For example, possible noise sources can be from occasional aircraft noise, or other activities nearby to the monitoring points.

6.0 NOISE SURVEY RESULTS

The noise survey was carried out in accordance with the Environmental Pollution Control Act (Chapter 94A, Section 77(1)), Environmental Pollution Control (Control of Noise at Construction Sites) Regulations, 1999.

Monday to Saturday

Types of Affected Building	Maximum Noise Level Permitted for construction sites (reckoned as an equivalent continuous noise level over a period of 5 minutes) in decibel (A)		
	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospitals, Schools, Institutions of Higher Learning, Homes for aged, Sick, etc	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	60 (LEQ 12hr)	50 (LEQ 12hr)	
(b) Residential Buildings Located less than 150m from the construction site where noise is being emitted	90 (Leq 5min)	70 (Leq 5min)	55 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 1hr)	55 (LEQ 1hr)
(c) Buildings (other than those in Paragraphs (a) and (b) above	90 (Leq 5min)	70 (Leq 5min)	70 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 12hr)	

Sunday and Public Holidays

Types of Affected Building	Maximum Noise Level Permitted for construction sites (reckoned as an equivalent continuous noise level over a period of 5 minutes) in decibel (A)		
	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospitals, Schools, Institutions of Higher Learning, Homes for aged, Sick, etc	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	60 (LEQ 12hr)	50 (LEQ 12hr)	
(b) Residential Buildings Located less than 150m from the construction site where noise is being emitted	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	75 (LEQ 12hr)	-	-
(c) Buildings (other than those in Paragraphs (a) and (b) above	90 (Leq 5min)	70 (Leq 5min)	70 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 12hr)	

Note:

No Work Rule on Sundays and Public Holidays

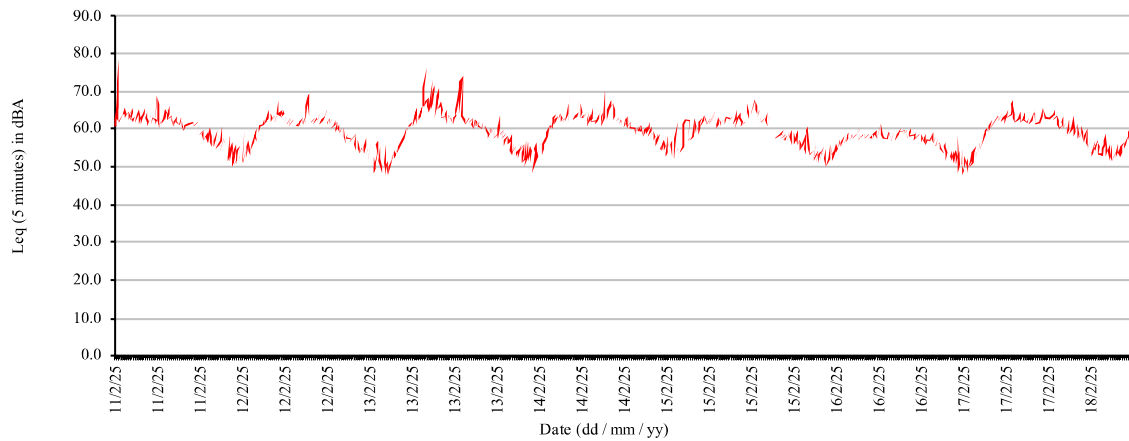
In addition to the settings of the permissible noise limits, NEA has also implemented a rule on prohibition of work on Sundays and Public Holidays (PH) for construction sites located within 150m away from residential premises and noise sensitive premises as follows:

Site Established from 1 September 2011. No work is allowed from 10.00pm on Sat/eve of PH to 7.00am on the following Mon/day after the PH. (For details, please refer to Appendix B)

Survey Results for monitoring point 1 from period : 11-Feb-2025 to 18-Feb-2025

Location : NM5 (Ground Level at 2 Telok Blangah St 31)

Leq (5 Minutes) Plotted Against Date of Monitoring



Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 5 min in Leq db(A)	Maximum Noise Level permitted for construction sites Leq 5min db (A)
No. NM-5		From		To			
NM5 (Ground Level at 2 Telok Blangah St 31)	Tue	11/2/25	0700	11/2/25	1900	78.6	90
	Tue	11/2/25	1900	11/2/25	2200	63.8	70
	Tue/Wed	11/2/25	2200	12/2/25	0700	61.1	70
	Wed	12/2/25	0700	12/2/25	1900	69.4	90
	Wed	12/2/25	1900	12/2/25	2200	62.2	70
	Wed/Thu	12/2/25	2200	13/2/25	0700	59.5	70
	Thu	13/2/25	0700	13/2/25	1900	76.4	90
	Thu	13/2/25	1900	13/2/25	2200	61.8	70
	Thu/Fri	13/2/25	2200	14/2/25	0700	63.3	70
	Fri	14/2/25	0700	14/2/25	1900	70.7	90
	Fri	14/2/25	1900	14/2/25	2200	63.6	70
	Fri/Sat	14/2/25	2200	15/2/25	0700	71.0	70
	Sat	15/2/25	0700	15/2/25	1900	67.7	90
	Sat	15/2/25	1900	15/2/25	2200	62.5	70
	Sat/Sun	15/2/25	2200	16/2/25	0700	61.0	70
	Sun	16/2/25	0700	16/2/25	1900	61.5	90
	Sun	16/2/25	1900	16/2/25	2200	59.2	70
	Sun/Mon	16/2/25	2200	17/2/25	0700	60.1	70
	Mon	17/2/25	0700	17/2/25	1900	67.9	90
	Mon	17/2/25	1900	17/2/25	2200	63.7	70
Mon/Tue	17/2/25	2200	18/2/25	0700	61.5	70	

Table 6.1 Summary of Noise Monitoring Results at Maximum Equivalent of LEQ 5 min

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 1 hr in Leq db(A) for the specific period	Maximum Noise Level permitted for construction sites Leq 1 hr db (A)
No. NM-5		From		To			
NM5 (Ground Level at 2 Telok Blangah St 31)	Tue	11/2/25	1900	11/2/25	2200	61.5	-
	Tue	11/2/25	2200	12/2/25	0700	59.3	-
	Wed	12/2/25	1900	12/2/25	2200	60.6	-
	Wed	12/2/25	2200	13/2/25	0700	57.4	-
	Thu	13/2/25	1900	13/2/25	2200	60.8	-
	Thu	13/2/25	2200	14/2/25	0700	59.6	-
	Fri	14/2/25	1900	14/2/25	2200	62.0	-
	Fri	14/2/25	2200	15/2/25	0700	61.8	-
	Sat	15/2/25	1900	15/2/25	2200	59.4	-
	Sat	15/2/25	2200	16/2/25	0700	58.5	-
	Sun	16/2/25	1900	16/2/25	2200	57.8	-
	Sun	16/2/25	2200	17/2/25	0700	58.1	-
	Mon	17/2/25	1900	17/2/25	2200	60.9	-
	Mon	17/2/25	2200	18/2/25	0700	59.4	-

Table 6.2 Summary of Noise Monitoring Results at Maximum Equivalent of LEQ 1 hr

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 12 hr in Leq db(A)	Maximum Noise Level permitted for construction sites Leq 12 hr db (A)
No. NM-5		From		To			
NM5 (Ground Level at 2 Telok Blangah St 31)	Tue	11/2/25	0700	11/2/25	1900	63.9	75
	Tue	11/2/25	1900	12/2/25	0700	57.8	65
	Wed	12/2/25	0700	12/2/25	1900	63.0	75
	Wed	12/2/25	1900	13/2/25	0700	56.2	65
	Thu	13/2/25	0700	13/2/25	1900	66.0	75
	Thu	13/2/25	1900	14/2/25	0700	57.6	65
	Fri	14/2/25	0700	14/2/25	1900	64.1	75
	Fri	14/2/25	1900	15/2/25	0700	59.7	65
	Sat	15/2/25	0700	15/2/25	1900	62.9	75
	Sat	15/2/25	1900	16/2/25	0700	56.6	65
	Sun	16/2/25	0700	16/2/25	1900	58.3	75
	Sun	16/2/25	1900	16/2/25	0700	55.5	65
	Mon	16/2/25	0700	17/2/25	1900	62.9	75
	Mon	17/2/25	1900	18/2/25	0700	57.8	65

Table 6.3 Summary of Noise Monitoring Results at LEQ 12 hr

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over specific period in Leq db(A)	Maximum Noise Level permitted for construction sites in db (A)
No. NM-5		From		To			
NM5 (Ground Level at 2 Telok Blangah St 31)	Tue	11/2/25	700	11/2/25	1900	63.9	90(Leq5min) 75 (Leq12hrs)
	Tue	11/2/25	1900	11/2/25	2200	60.5	70 (Leq5min)
	Tue	11/2/25	2200	12/2/25	0000	57.5	70 (Leq5min)
	Wed	12/2/25	0000	12/2/25	700	55.9	70 (Leq5min)
	Wed	12/2/25	700	12/2/25	1900	63.0	90(Leq5min) 75 (Leq12hrs)
	Wed	12/2/25	1900	12/2/25	2200	59.2	70 (Leq5min)
	Wed	12/2/25	2200	13/2/25	0000	56.0	70 (Leq5min)
	Thu	13/2/25	0000	13/2/25	700	54.1	70 (Leq5min)
	Thu	13/2/25	700	13/2/25	1900	66.0	90(Leq5min) 75 (Leq12hrs)
	Thu	13/2/25	1900	13/2/25	2200	59.9	70 (Leq5min)
	Thu	13/2/25	2200	14/2/25	0000	58.6	70 (Leq5min)
	Fri	14/2/25	0000	14/2/25	700	55.6	70 (Leq5min)
	Fri	14/2/25	700	14/2/25	1900	64.1	90(Leq5min) 75 (Leq12hrs)
	Fri	14/2/25	1900	14/2/25	2200	60.8	70 (Leq5min)
	Fri	14/2/25	2200	15/2/25	0000	59.3	70 (Leq5min)
	Sat	15/2/25	0000	15/2/25	700	59.2	70 (Leq5min)
	Sat	15/2/25	700	15/2/25	1900	62.9	90(Leq5min) 75 (Leq12hrs)
	Sat	15/2/25	1900	15/2/25	2200	58.6	70 (Leq5min)
	Sat	15/2/25	2200	16/2/25	0000	57.9	70 (Leq5min)
	Sun	16/2/25	0000	16/2/25	700	54.7	70 (Leq5min)
	Sun	16/2/25	700	16/2/25	1900	58.3	90(Leq5min) 75 (Leq12hrs)
	Sun	16/2/25	1900	16/2/25	2200	57.5	70 (Leq5min)
	Sun	16/2/25	2200	17/2/25	0000	55.7	70 (Leq5min)
	Mon	17/2/25	0000	17/2/25	700	54.2	70 (Leq5min)
	Mon	17/2/25	700	17/2/25	1900	62.9	90(Leq5min) 75 (Leq12hrs)
	Mon	17/2/25	1900	17/2/25	2200	60.3	70 (Leq5min)
	Mon	17/2/25	2200	17/2/25	0000	57.8	70 (Leq5min)
	Tue	18/2/25	0000	18/2/25	0700	55.9	70 (Leq5min)

Table 6.4 Summary of Noise Monitoring Results at Continuous Equivalent of LEQ for specific period

7.0 SUMMARY

The purpose of this survey was to assess the current acoustical environment to establish the background noise level generated over One (1) monitoring point/location for continuous twenty-four (24) hours and seven (7) days noise monitoring at the boundary of the project site for Project Title

Baseline Noise Survey @ NM5 EIA Gillman Barracks

The location of the nearest Noise Receiver (NSR) : **NM5 (Ground Level at 2 Telok Blangah St 31)**

The findings show that,

The ambience noise at NSR NM5 Ground Level at 2 Telok Blangah St 31, falls within the Permissible limits stated in the NEA Guideline on construction noise control for most of the time period daily.

* Refer to Appendix E for full noise data report.

We recommend submitting an appeal to NEA to adjust the Noise Limit as in table 6.5 for NSR NM5 Ground Level at 2 Telok Blangah St 31

Background Noise Correction Factor

The adjusted value for the maximum noise level shall be obtained by adding the correction factor corresponding to the difference between the maximum permitted level and the background noise level, set out in the Table below, to the higher of the 2 noise levels.

Difference between 2 noise levels in decibels (A)	Correction factor in decibels (A)
a) Below 2	3
b) 2 to less than 4	2
c) 4 to less than 10	1
d) 10 and above	NIL

Proposed New Permissible Noise Level for monitoring point: **NM5 (Ground Level at 2 Telok Blangah St 31)**

Period	Noise Limit	*Equivalent continuous sound level over period in Leq dB(A) - Background Noise	Difference	Correction Factor	Proposed Adjusted New Permissible Level (dBA)
7am to 7pm (Monday to Saturday)	90 (Leq 5min)	66.0	24.0	0	90 (Leq 5min)
	75 (Leq 12hr)	66.0	9.0	1	76 (Leq 12hr)
7pm to 10pm (Monday to Saturday)	70 (Leq 5min)	60.8	9.2	1	71 (Leq 5min)
10pm to 12am (Monday to Saturday)	70 (Leq 5min)	59.3	10.7	0	70 (Leq 5min)
12am to 7am (Monday to Saturday)	70 (Leq 5min)	59.2	10.8	0	70 (Leq 5min)
7pm to 7am (Monday to Saturday)	65 (Leq 12hrs)	59.7	5.3	0	65 (Leq 12hr)
7am to 7pm (Sunday)	90 (Leq 5min)	58.3	31.7	0	90 (Leq 5min)
	75 (Leq 12hr)	58.3	16.7	0	75 (Leq 12hr)
7pm to 10pm (Sunday)	70 (Leq 5min)	57.5	12.5	0	70 (Leq 5min)
10pm to 12am (Sunday)	70 (Leq 5min)	55.7	14.3	0	70 (Leq 5min)
12am to 7am (Sunday)	70 (Leq 5min)	54.7	15.3	0	70 (Leq 5min)
7pm to 7am (Sunday)	65 (Leq 12hrs)	55.5	9.5	1	66 (Leq 12hr)

* The highest equivalent continuous sound level in Leq dB(A) between Monday to Saturday is taken for calculating the adjusted new permissible level for each period.

Table 6.5 Proposed New Permissible Noise Level

8.0 CONFIRMATION

We, ENSSCOM PTE LTD, certify that the information given is correct. The noise survey was conducted for

CH2M HILL Singapore Pte Ltd
150 Beach Road, Gateway West 34th Floor, Singapore 189720

To carry out One (1) monitoring points/locations for continuous twenty-four (24) hours and seven (7) days noise monitoring at the boundary of the project site for Project Title

Baseline Noise Survey @ NM5 EIA Gillman Barracks

was carried out as described in this report and the results resented herein.

Date of Monitoring:

From 11/2/25 (0700hrs) to 18/2/25 (0700hrs)

Hoo Hian Choon (Mr)
Noise Monitoring Consultant
25-Feb-2025

APPENDIX A : INSTRUMENT LAYOUT PLAN



APPENDIX B: NEA CONSTRUCTION NOISE CONTROL GUIDELINE

Construction Noise Control

Maximum Permissible Noise Levels for Construction Work Commenced on or after 1st October 2007

Noise Regulation

Mondays to Saturdays

Types of affected buildings	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospital, schools, institutions of higher learning, homes for aged sick, etc.	60 dBA (Leq* 12 hrs)	50 dBA (Leq 12 hrs)	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(b) Residential buildings located less than 150m from the construction site	75 dBA (Leq 12 hrs)	65 dBA (Leq 1 hr)	55 dBA (Leq 1 hr)
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)
(c) Buildings other than those in (a) and (b) above	75 dBA (Leq 12 hrs)	65 dBA (Leq 12 hrs)	
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	

Sundays and Public Holidays

Types of affected buildings	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospital, schools, institutions of higher learning, homes for aged sick, etc.	60 dBA (Leq* 12 hrs)	50 dBA (Leq 12 hrs)	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(b) Residential buildings located less than 150m from the construction site	75 dBA (Leq 12 hrs)	-	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(c) Buildings other than those in (a) and (b) above	75 dBA (Leq 12 hrs)	65 dBA (Leq 12 hrs)	
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	

APPENDIX C: NOISE MONITORING OFFICER CERTIFICATES

S/No: 02/20/159



Acoustical Laboratory Pte Ltd
CENTRE FOR ENVIRONMENTAL CONSULTATION AND TRAINING

Certificate of Competence

This is to certify that

Hoo Hian Choon

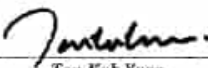
has attended and passed an examination
for a course on

Noise Monitoring

held between 22nd May 2002 and 24th May 2002

Acoustical Laboratory is approved by the Ministry of
Labour as a Training Centre for the
Noise Monitoring Course




Tan Kok Yang
Course Co-ordinator


Koh L. B.
Managing Director



NANYANG
TECHNOLOGICAL
UNIVERSITY

This is to certify that

Hoo Hian Choon

has successfully completed the 2½-day course

Industrial Noise Control

A handwritten signature in black ink, reading "Seah Ben Han".

Seah Ben Han
Director
Centre for Continuing Education

27 August 2010

APPENDIX D: INSTRUMENT CALIBRATION CERTIFICATES



Certificate of Calibration

Equipment Details

Instrument Manufacturer	Cirrus Research plc
Instrument Type	CE 191 SG
Description	Sound Level Meter
Serial Number	G068829

Calibration Procedure

The instrument detailed above have been calibrated to the published test and calibration data as detailed in the instrument hand book, using the techniques recommended in the latest revisions of the International Standards IEC 61672-1:2003, IEC 61672-1:2002, IEC 60651-1:1979, IEC 60891: 2001, IEC 61260:1995, IEC 60943:2005, IEC 60942:1997, IEC 61252:1995, ANSI S1.1-1983, ANSI S1.11-1986 and ANSI S1.43-1997 where applicable.
Sound Level Meters: All Calibration procedures were carried out by substituting the microphone capsule with a suitable electrical signal, apart from the final acoustic calibration.

Calibration Traceability

The instrument detailed above was calibrated against the calibration laboratory standards held by Cirrus Research plc. These are traceable to International Standards (A 04). The standards are:

Multi Acoustic Calibrator	B & K 4226	Serial Number	3041345	Calibration Ref.	5523651030684843
Microphone Type	MK 224	Serial Number	2-4952B	Calibration Ref.	209903

Calibrated by

Calibration Date

24 January 2025

Calibration Certificate Number

258911

This Calibration Certificate is valid for 12 months from the date above.

Cirrus Research plc, Acoustic House, Bridlington Road, Hammarby, North Yorkshire, YO14 3PH
Telephone: +44 (0) 1723 891655 Fax: +44 (0) 1723 891742
Email: sales@cirrusresearch.co.uk

CERTIFICATE OF CALIBRATION

ISSUED BY: Cirrus Research plc

DATE OF ISSUE: 03 January 2025 CERTIFICATE NUMBER: 229571



Cirrus Research plc
Acoustic House
Bridlington Road
Hunmanby
North Yorkshire
YO14 0PH
United Kingdom

Page 1 of 2

Approved signatory
A. Windress
Electronically signed:

Sound Calibrator : IEC 60942:2003

Instrument information

Manufacturer: Cirrus Research plc

Notes:

Model: CR-515

Serial number: 60614

Class: 1

Test summary

Date of calibration: 03 January 2025

The sound calibrator detailed above has been calibrated to the published data as described in the operating manual and in the half-inch configuration. The procedures and techniques used are as described in IEC60942_2003 Annex B – Periodic Tests and three determinations of the sound pressure level, frequency and total distortion were made.

The sound pressure level was measured using a WS2F condenser microphone type MK224 manufactured by Cirrus Research plc.

The results have been corrected to the reference pressure of 101.33 kPa using the manufacturer's data.

As public evidence was available, from a testing organisation responsible for approving the results of pattern evaluation tests, to demonstrate that the model of sound calibrator fully conformed to the requirements for pattern evaluation described in Annex A of IEC 60942:2003, the sound calibrator tested is considered to conform to all the Class 1 requirements of IEC 60942:2003.

The manufacturer's product information indicates that this model of sound calibrator has been formally pattern approved to IEC60942_2003 Annex A to Class 1. This has been confirmed by Laboratoire National d'Essais (LNE), Physikalisch-Technische Bundesanstalt (PTB) and APPLUS (APPLUS).

Notes:

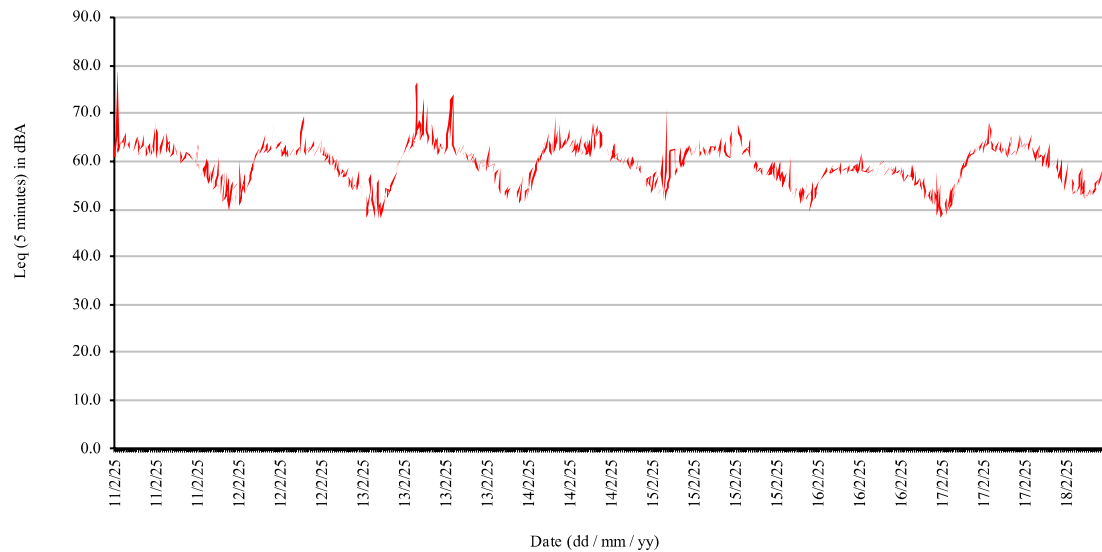
This certificate provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory. The results within this certificate relate only to the items calibrated. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%.

APPENDIX E

CONSTRUCTION SITE NOISE MONITORING DATA AND CHART

NAME OF COMPANY	CH2M HILL Singapore Pte Ltd		
SITE LOCATION	NM5 EIA Gillman Barracks		
REPORT REFERENCE	11/02/2025 - 18/02/2025		
MODE	Environment	FREQUENCY WEIGHTING	A

Leq (5 Minutes) Plotted Against Date of Monitoring



NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM5 EIA Gillman Barracks								
REPORT REFERENCE			11/02/2025 - 18/02/2025								
Start	11/2/25		7:05	Leq12h			63.9	Weighting		A	
End	11/2/25		19:00								
Date	Time	Leq5m		Date	Time	Leq5m		Date	Time	Leq5m	
11/2/25	7:05	60.8		11/2/25	11:05	61.4		11/2/25	15:05	65.3	
11/2/25	7:10	62.2		11/2/25	11:10	61.6		11/2/25	15:10	63.2	
11/2/25	7:15	62.1		11/2/25	11:15	61.6		11/2/25	15:15	62.2	
11/2/25	7:20	62.4		11/2/25	11:20	62.1		11/2/25	15:20	64.3	
11/2/25	7:25	65.4		11/2/25	11:25	64.6		11/2/25	15:25	62.2	
11/2/25	7:30	78.6		11/2/25	11:30	61.3		11/2/25	15:30	62.3	
11/2/25	7:35	63.2		11/2/25	11:35	62.7		11/2/25	15:35	62.5	
11/2/25	7:40	61.8		11/2/25	11:40	63.2		11/2/25	15:40	62.3	
11/2/25	7:45	61.6		11/2/25	11:45	64.0		11/2/25	15:45	66.0	
11/2/25	7:50	62.5		11/2/25	11:50	65.6		11/2/25	15:50	63.8	
11/2/25	7:55	62.5		11/2/25	11:55	61.7		11/2/25	15:55	62.5	
11/2/25	8:00	64.2		11/2/25	12:00	64.4		11/2/25	16:00	61.6	
11/2/25	8:05	62.3		11/2/25	12:05	62.7		11/2/25	16:05	63.5	
11/2/25	8:10	62.6		11/2/25	12:10	63.0		11/2/25	16:10	62.9	
11/2/25	8:15	63.0		11/2/25	12:15	63.2		11/2/25	16:15	63.3	
11/2/25	8:20	63.9		11/2/25	12:20	61.8		11/2/25	16:20	64.1	
11/2/25	8:25	63.6		11/2/25	12:25	62.2		11/2/25	16:25	62.4	
11/2/25	8:30	63.4		11/2/25	12:30	60.9		11/2/25	16:30	61.9	
11/2/25	8:35	65.7		11/2/25	12:35	62.1		11/2/25	16:35	61.7	
11/2/25	8:40	64.1		11/2/25	12:40	62.9		11/2/25	16:40	63.1	
11/2/25	8:45	64.2		11/2/25	12:45	61.8		11/2/25	16:45	60.6	
11/2/25	8:50	62.7		11/2/25	12:50	62.6		11/2/25	16:50	61.8	
11/2/25	8:55	62.7		11/2/25	12:55	63.7		11/2/25	16:55	61.6	
11/2/25	9:00	63.1		11/2/25	13:00	62.8		11/2/25	17:00	61.2	
11/2/25	9:05	62.9		11/2/25	13:05	61.4		11/2/25	17:05	63.7	
11/2/25	9:10	62.7		11/2/25	13:10	63.1		11/2/25	17:10	61.9	
11/2/25	9:15	64.3		11/2/25	13:15	61.5		11/2/25	17:15	62.2	
11/2/25	9:20	63.9		11/2/25	13:20	60.9		11/2/25	17:20	62.3	
11/2/25	9:25	63.3		11/2/25	13:25	61.5		11/2/25	17:25	62.2	
11/2/25	9:30	63.2	11/2/25	13:30	61.2	11/2/25	17:30	62.2			
11/2/25	9:35	62.6	11/2/25	13:35	62.1	11/2/25	17:35	62.4			
11/2/25	9:40	65.7	11/2/25	13:40	62.6	11/2/25	17:40	61.4			
11/2/25	9:45	64.3	11/2/25	13:45	68.6	11/2/25	17:45	62.9			
11/2/25	9:50	64.2	11/2/25	13:50	61.1	11/2/25	17:50	61.7			
11/2/25	9:55	62.6	11/2/25	13:55	62.2	11/2/25	17:55	63.0			
11/2/25	10:00	63.4	11/2/25	14:00	66.6	11/2/25	18:00	61.9			
11/2/25	10:05	64.0	11/2/25	14:05	66.0	11/2/25	18:05	61.9			
11/2/25	10:10	61.9	11/2/25	14:10	66.1	11/2/25	18:10	61.0			
11/2/25	10:15	62.8	11/2/25	14:15	62.5	11/2/25	18:15	61.2			
11/2/25	10:20	62.5	11/2/25	14:20	60.3	11/2/25	18:20	59.7			
11/2/25	10:25	62.8	11/2/25	14:25	61.0	11/2/25	18:25	60.8			
11/2/25	10:30	62.1	11/2/25	14:30	62.8	11/2/25	18:30	60.4			
11/2/25	10:35	62.3	11/2/25	14:35	61.1	11/2/25	18:35	60.3			
11/2/25	10:40	64.2	11/2/25	14:40	62.5	11/2/25	18:40	61.1			
11/2/25	10:45	64.8	11/2/25	14:45	62.2	11/2/25	18:45	61.3			
11/2/25	10:50	65.0	11/2/25	14:50	62.2	11/2/25	18:50	60.5			
11/2/25	10:55	64.6	11/2/25	14:55	61.4	11/2/25	18:55	61.0			
11/2/25	11:00	62.8	11/2/25	15:00	62.8	11/2/25	19:00	61.1			

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM5 EIA Gillman Barracks							
REPORT REFERENCE				11/02/2025 - 18/02/2025							
Start	11/2/25	19:05		Leq12h	57.8			Weighting		A	
End	12/2/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
11/2/25	19:05	60.9		11/2/25	23:05	55.4		12/2/25	3:05	50.7	
11/2/25	19:10	61.6		11/2/25	23:10	56.2		12/2/25	3:10	54.1	
11/2/25	19:15	62.1		11/2/25	23:15	57.9		12/2/25	3:15	55.0	
11/2/25	19:20	61.5		11/2/25	23:20	55.5		12/2/25	3:20	53.9	
11/2/25	19:25	61.4		11/2/25	23:25	55.4		12/2/25	3:25	55.5	
11/2/25	19:30	61.4		11/2/25	23:30	56.9		12/2/25	3:30	51.0	
11/2/25	19:35	61.2		11/2/25	23:35	56.5		12/2/25	3:35	51.8	
11/2/25	19:40	61.7		11/2/25	23:40	59.6		12/2/25	3:40	52.9	
11/2/25	19:45	61.8		11/2/25	23:45	55.0		12/2/25	3:45	51.5	
11/2/25	19:50	61.3		11/2/25	23:50	54.2		12/2/25	3:50	52.1	
11/2/25	19:55	61.8		11/2/25	23:55	54.4		12/2/25	3:55	55.3	
11/2/25	20:00	60.9	61.5	11/2/25	0:00	54.2	56.2	12/2/25	4:00	53.2	53.4
11/2/25	20:05	61.8		12/2/25	0:05	54.8		12/2/25	4:05	59.8	
11/2/25	20:10	60.9		12/2/25	0:10	55.8		12/2/25	4:10	54.7	
11/2/25	20:15	60.5		12/2/25	0:15	56.2		12/2/25	4:15	52.2	
11/2/25	20:20	60.9		12/2/25	0:20	57.1		12/2/25	4:20	50.6	
11/2/25	20:25	61.4		12/2/25	0:25	55.2		12/2/25	4:25	51.3	
11/2/25	20:30	61.7		12/2/25	0:30	60.8		12/2/25	4:30	55.1	
11/2/25	20:35	61.1		12/2/25	0:35	54.1		12/2/25	4:35	51.5	
11/2/25	20:40	58.9		12/2/25	0:40	54.8		12/2/25	4:40	53.8	
11/2/25	20:45	59.0		12/2/25	0:45	54.1		12/2/25	4:45	53.5	
11/2/25	20:50	59.0		12/2/25	0:50	57.6		12/2/25	4:50	53.0	
11/2/25	20:55	63.8		12/2/25	0:55	57.8		12/2/25	4:55	55.5	
11/2/25	21:00	58.9	60.9	12/2/25	1:00	56.3	56.7	12/2/25	5:00	57.3	54.9
11/2/25	21:05	59.2		12/2/25	1:05	57.5		12/2/25	5:05	54.5	
11/2/25	21:10	59.7		12/2/25	1:10	56.5		12/2/25	5:10	54.0	
11/2/25	21:15	58.4		12/2/25	1:15	56.5		12/2/25	5:15	53.9	
11/2/25	21:20	58.5		12/2/25	1:20	52.7		12/2/25	5:20	54.0	
11/2/25	21:25	59.7		12/2/25	1:25	52.6		12/2/25	5:25	53.1	
11/2/25	21:30	59.5		12/2/25	1:30	57.8		12/2/25	5:30	56.2	
11/2/25	21:35	58.8		12/2/25	1:35	52.6		12/2/25	5:35	54.4	
11/2/25	21:40	58.2		12/2/25	1:40	51.6		12/2/25	5:40	54.9	
11/2/25	21:45	58.6		12/2/25	1:45	52.7		12/2/25	5:45	54.6	
11/2/25	21:50	58.2		12/2/25	1:50	52.9		12/2/25	5:50	56.3	
11/2/25	21:55	56.8		12/2/25	1:55	57.9		12/2/25	5:55	55.9	
11/2/25	22:00	57.5	58.7	12/2/25	2:00	51.8	55.1	12/2/25	6:00	57.2	55.1
11/2/25	22:05	59.3		12/2/25	2:05	52.2		12/2/25	6:05	56.9	
11/2/25	22:10	59.2		12/2/25	2:10	55.0		12/2/25	6:10	57.3	
11/2/25	22:15	58.3		12/2/25	2:15	56.5		12/2/25	6:15	60.1	
11/2/25	22:20	57.7		12/2/25	2:20	52.1		12/2/25	6:20	58.3	
11/2/25	22:25	56.5		12/2/25	2:25	50.0		12/2/25	6:25	58.3	
11/2/25	22:30	58.9		12/2/25	2:30	51.8		12/2/25	6:30	57.3	
11/2/25	22:35	60.2		12/2/25	2:35	52.3		12/2/25	6:35	60.2	
11/2/25	22:40	59.5		12/2/25	2:40	51.4		12/2/25	6:40	59.9	
11/2/25	22:45	58.3		12/2/25	2:45	54.8		12/2/25	6:45	59.4	
11/2/25	22:50	58.8		12/2/25	2:50	55.9		12/2/25	6:50	60.6	
11/2/25	22:55	56.7		12/2/25	2:55	50.5		12/2/25	6:55	60.0	
11/2/25	23:00	56.5	58.5	12/2/25	3:00	52.5	53.4	12/2/25	7:00	61.1	59.3

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM5 EIA Gillman Barracks						
REPORT REFERENCE			11/02/2025 - 18/02/2025						
Start	12/2/25	7:05	Leq12h	63.0			Weighting		A
End	12/2/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m		Date	Time	Leq5m
12/2/25	7:05	60.5	12/2/25	11:05	61.7		12/2/25	15:05	63.4
12/2/25	7:10	61.3	12/2/25	11:10	64.3		12/2/25	15:10	65.1
12/2/25	7:15	61.2	12/2/25	11:15	62.4		12/2/25	15:15	65.5
12/2/25	7:20	61.5	12/2/25	11:20	62.5		12/2/25	15:20	64.6
12/2/25	7:25	61.3	12/2/25	11:25	61.8		12/2/25	15:25	62.0
12/2/25	7:30	62.3	12/2/25	11:30	61.5		12/2/25	15:30	61.3
12/2/25	7:35	63.1	12/2/25	11:35	60.9		12/2/25	15:35	63.1
12/2/25	7:40	62.3	12/2/25	11:40	61.9		12/2/25	15:40	61.9
12/2/25	7:45	62.3	12/2/25	11:45	63.2		12/2/25	15:45	62.0
12/2/25	7:50	61.5	12/2/25	11:50	63.2		12/2/25	15:50	61.5
12/2/25	7:55	61.8	12/2/25	11:55	62.6		12/2/25	15:55	63.0
12/2/25	8:00	61.8	12/2/25	12:00	61.0		12/2/25	16:00	61.5
12/2/25	8:05	61.3	12/2/25	12:05	60.6		12/2/25	16:05	63.0
12/2/25	8:10	62.9	12/2/25	12:10	62.3		12/2/25	16:10	63.3
12/2/25	8:15	65.3	12/2/25	12:15	61.7		12/2/25	16:15	62.8
12/2/25	8:20	61.8	12/2/25	12:20	62.1		12/2/25	16:20	63.2
12/2/25	8:25	62.5	12/2/25	12:25	62.0		12/2/25	16:25	63.3
12/2/25	8:30	61.6	12/2/25	12:30	61.7		12/2/25	16:30	63.2
12/2/25	8:35	62.6	12/2/25	12:35	60.9		12/2/25	16:35	61.8
12/2/25	8:40	63.8	12/2/25	12:40	62.0		12/2/25	16:40	64.2
12/2/25	8:45	63.1	12/2/25	12:45	61.4		12/2/25	16:45	62.6
12/2/25	8:50	62.5	12/2/25	12:50	61.5		12/2/25	16:50	61.3
12/2/25	8:55	62.7	12/2/25	12:55	61.0		12/2/25	16:55	62.1
12/2/25	9:00	61.7	12/2/25	13:00	60.8		12/2/25	17:00	61.4
12/2/25	9:05	61.4	12/2/25	13:05	61.5		12/2/25	17:05	61.8
12/2/25	9:10	62.2	12/2/25	13:10	61.7		12/2/25	17:10	61.2
12/2/25	9:15	62.4	12/2/25	13:15	62.6		12/2/25	17:15	61.0
12/2/25	9:20	63.5	12/2/25	13:20	62.3		12/2/25	17:20	62.4
12/2/25	9:25	61.8	12/2/25	13:25	62.0		12/2/25	17:25	61.6
12/2/25	9:30	62.1	12/2/25	13:30	61.7		12/2/25	17:30	63.5
12/2/25	9:35	61.8	12/2/25	13:35	61.0		12/2/25	17:35	62.4
12/2/25	9:40	63.7	12/2/25	13:40	62.1		12/2/25	17:40	62.7
12/2/25	9:45	62.0	12/2/25	13:45	61.2		12/2/25	17:45	62.9
12/2/25	9:50	63.7	12/2/25	13:50	62.0		12/2/25	17:50	62.0
12/2/25	9:55	67.6	12/2/25	13:55	62.7		12/2/25	17:55	62.6
12/2/25	10:00	63.8	12/2/25	14:00	62.2		12/2/25	18:00	65.0
12/2/25	10:05	64.0	12/2/25	14:05	61.5		12/2/25	18:05	61.6
12/2/25	10:10	63.4	12/2/25	14:10	62.1		12/2/25	18:10	63.0
12/2/25	10:15	63.4	12/2/25	14:15	63.1		12/2/25	18:15	61.2
12/2/25	10:20	63.6	12/2/25	14:20	63.3		12/2/25	18:20	62.6
12/2/25	10:25	63.7	12/2/25	14:25	61.6		12/2/25	18:25	61.7
12/2/25	10:30	65.0	12/2/25	14:30	65.1		12/2/25	18:30	61.2
12/2/25	10:35	62.7	12/2/25	14:35	61.5		12/2/25	18:35	61.0
12/2/25	10:40	62.7	12/2/25	14:40	65.9		12/2/25	18:40	62.2
12/2/25	10:45	63.0	12/2/25	14:45	68.2		12/2/25	18:45	61.4
12/2/25	10:50	63.2	12/2/25	14:50	69.4		12/2/25	18:50	60.1
12/2/25	10:55	63.9	12/2/25	14:55	69.4		12/2/25	18:55	60.1
12/2/25	11:00	64.2	12/2/25	15:00	67.8		12/2/25	19:00	61.0

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM5 EIA Gillman Barracks							
REPORT REFERENCE				11/02/2025 - 18/02/2025							
Start	12/2/25	19:05		Leq12h	56.2			Weighting		A	
End	13/2/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
12/2/25	19:05	60.6		12/2/25	23:05	57.1		13/2/25	3:05	48.3	
12/2/25	19:10	61.5		12/2/25	23:10	56.4		13/2/25	3:10	53.7	
12/2/25	19:15	62.2		12/2/25	23:15	54.8		13/2/25	3:15	51.0	
12/2/25	19:20	60.8		12/2/25	23:20	54.2		13/2/25	3:20	51.2	
12/2/25	19:25	61.6		12/2/25	23:25	53.7		13/2/25	3:25	51.2	
12/2/25	19:30	60.0		12/2/25	23:30	53.9		13/2/25	3:30	50.7	
12/2/25	19:35	59.0		12/2/25	23:35	54.9		13/2/25	3:35	56.2	
12/2/25	19:40	58.7		12/2/25	23:40	54.7		13/2/25	3:40	55.2	
12/2/25	19:45	61.3		12/2/25	23:45	55.0		13/2/25	3:45	51.1	
12/2/25	19:50	60.7		12/2/25	23:50	54.8		13/2/25	3:50	50.9	
12/2/25	19:55	60.0		12/2/25	23:55	54.9		13/2/25	3:55	47.7	
12/2/25	20:00	59.8	60.6	12/2/25	0:00	54.2	55.0	13/2/25	4:00	51.5	52.2
12/2/25	20:05	59.2		13/2/25	0:05	53.6		13/2/25	4:05	50.6	
12/2/25	20:10	59.7		13/2/25	0:10	53.9		13/2/25	4:10	50.8	
12/2/25	20:15	60.3		13/2/25	0:15	55.4		13/2/25	4:15	47.9	
12/2/25	20:20	59.0		13/2/25	0:20	57.8		13/2/25	4:20	50.0	
12/2/25	20:25	57.7		13/2/25	0:25	53.3		13/2/25	4:25	49.9	
12/2/25	20:30	57.7		13/2/25	0:30	53.8		13/2/25	4:30	52.2	
12/2/25	20:35	58.2		13/2/25	0:35	54.7		13/2/25	4:35	51.4	
12/2/25	20:40	60.0		13/2/25	0:40	54.3		13/2/25	4:40	51.2	
12/2/25	20:45	58.2		13/2/25	0:45	52.2		13/2/25	4:45	52.9	
12/2/25	20:50	57.7		13/2/25	0:50	57.0		13/2/25	4:50	51.9	
12/2/25	20:55	57.4		13/2/25	0:55	53.7		13/2/25	4:55	54.4	
12/2/25	21:00	58.4	58.7	13/2/25	1:00	52.4	54.7	13/2/25	5:00	51.8	51.5
12/2/25	21:05	56.6		13/2/25	1:05	51.7		13/2/25	5:05	51.7	
12/2/25	21:10	58.4		13/2/25	1:10	52.7		13/2/25	5:10	53.4	
12/2/25	21:15	57.6		13/2/25	1:15	51.7		13/2/25	5:15	52.4	
12/2/25	21:20	58.2		13/2/25	1:20	57.8		13/2/25	5:20	53.9	
12/2/25	21:25	56.8		13/2/25	1:25	50.5		13/2/25	5:25	53.1	
12/2/25	21:30	58.3		13/2/25	1:30	52.8		13/2/25	5:30	54.0	
12/2/25	21:35	56.9		13/2/25	1:35	51.4		13/2/25	5:35	55.3	
12/2/25	21:40	57.0		13/2/25	1:40	50.6		13/2/25	5:40	53.2	
12/2/25	21:45	57.8		13/2/25	1:45	49.4		13/2/25	5:45	53.0	
12/2/25	21:50	56.6		13/2/25	1:50	50.6		13/2/25	5:50	55.2	
12/2/25	21:55	57.7		13/2/25	1:55	48.2		13/2/25	5:55	54.8	
12/2/25	22:00	57.8	57.5	13/2/25	2:00	50.1	52.2	13/2/25	6:00	56.0	54.0
12/2/25	22:05	57.2		13/2/25	2:05	54.5		13/2/25	6:05	55.4	
12/2/25	22:10	57.9		13/2/25	2:10	51.3		13/2/25	6:10	56.5	
12/2/25	22:15	57.1		13/2/25	2:15	57.3		13/2/25	6:15	56.1	
12/2/25	22:20	56.9		13/2/25	2:20	56.1		13/2/25	6:20	56.3	
12/2/25	22:25	58.7		13/2/25	2:25	53.0		13/2/25	6:25	56.4	
12/2/25	22:30	55.9		13/2/25	2:30	51.9		13/2/25	6:30	56.6	
12/2/25	22:35	56.5		13/2/25	2:35	55.4		13/2/25	6:35	57.7	
12/2/25	22:40	55.8		13/2/25	2:40	52.0		13/2/25	6:40	56.9	
12/2/25	22:45	56.0		13/2/25	2:45	50.2		13/2/25	6:45	57.6	
12/2/25	22:50	56.1		13/2/25	2:50	50.4		13/2/25	6:50	59.5	
12/2/25	22:55	54.4		13/2/25	2:55	50.2		13/2/25	6:55	58.7	
12/2/25	23:00	56.8	56.7	13/2/25	3:00	49.7	53.4	13/2/25	7:00	58.8	57.4

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM5 EIA Gillman Barracks								
REPORT REFERENCE			11/02/2025 - 18/02/2025								
Start	13/2/25	7:05	Leq12h			66.0	Weighting			A	
End	13/2/25	19:00									
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m			
13/2/25	7:05	60.0	13/2/25	11:05	66.1	13/2/25	15:05	63.0			
13/2/25	7:10	59.2	13/2/25	11:10	72.9	13/2/25	15:10	64.0			
13/2/25	7:15	60.7	13/2/25	11:15	66.2	13/2/25	15:15	62.9			
13/2/25	7:20	60.2	13/2/25	11:20	65.1	13/2/25	15:20	63.9			
13/2/25	7:25	59.5	13/2/25	11:25	66.6	13/2/25	15:25	65.3			
13/2/25	7:30	60.8	13/2/25	11:30	70.4	13/2/25	15:30	67.7			
13/2/25	7:35	60.8	13/2/25	11:35	71.6	13/2/25	15:35	70.8			
13/2/25	7:40	61.2	13/2/25	11:40	70.8	13/2/25	15:40	64.5			
13/2/25	7:45	61.5	13/2/25	11:45	68.7	13/2/25	15:45	63.2			
13/2/25	7:50	61.7	13/2/25	11:50	71.9	13/2/25	15:50	72.3			
13/2/25	7:55	62.5	13/2/25	11:55	66.3	13/2/25	15:55	72.6			
13/2/25	8:00	61.4	13/2/25	12:00	65.2	13/2/25	16:00	64.1			
13/2/25	8:05	61.6	13/2/25	12:05	63.2	13/2/25	16:05	72.7			
13/2/25	8:10	60.7	13/2/25	12:10	69.1	13/2/25	16:10	74.1			
13/2/25	8:15	60.8	13/2/25	12:15	70.9	13/2/25	16:15	63.3			
13/2/25	8:20	61.6	13/2/25	12:20	64.9	13/2/25	16:20	62.8			
13/2/25	8:25	60.9	13/2/25	12:25	65.7	13/2/25	16:25	63.3			
13/2/25	8:30	61.5	13/2/25	12:30	66.2	13/2/25	16:30	62.2			
13/2/25	8:35	64.1	13/2/25	12:35	67.4	13/2/25	16:35	61.3			
13/2/25	8:40	65.4	13/2/25	12:40	66.0	13/2/25	16:40	62.2			
13/2/25	8:45	63.3	13/2/25	12:45	66.2	13/2/25	16:45	62.3			
13/2/25	8:50	61.3	13/2/25	12:50	65.1	13/2/25	16:50	61.1			
13/2/25	8:55	61.6	13/2/25	12:55	64.3	13/2/25	16:55	60.8			
13/2/25	9:00	63.4	13/2/25	13:00	63.0	13/2/25	17:00	63.0			
13/2/25	9:05	63.0	13/2/25	13:05	64.9	13/2/25	17:05	61.1			
13/2/25	9:10	62.3	13/2/25	13:10	63.3	13/2/25	17:10	63.1			
13/2/25	9:15	63.0	13/2/25	13:15	62.2	13/2/25	17:15	62.5			
13/2/25	9:20	63.4	13/2/25	13:20	62.3	13/2/25	17:20	61.7			
13/2/25	9:25	63.3	13/2/25	13:25	61.8	13/2/25	17:25	62.9			
13/2/25	9:30	62.8	13/2/25	13:30	62.2	13/2/25	17:30	62.8			
13/2/25	9:35	66.1	13/2/25	13:35	65.2	13/2/25	17:35	62.8			
13/2/25	9:40	62.8	13/2/25	13:40	64.2	13/2/25	17:40	63.2			
13/2/25	9:45	64.7	13/2/25	13:45	63.7	13/2/25	17:45	61.7			
13/2/25	9:50	63.9	13/2/25	13:50	61.1	13/2/25	17:50	63.2			
13/2/25	9:55	64.2	13/2/25	13:55	62.0	13/2/25	17:55	62.2			
13/2/25	10:00	65.9	13/2/25	14:00	63.7	13/2/25	18:00	61.5			
13/2/25	10:05	71.1	13/2/25	14:05	62.7	13/2/25	18:05	60.9			
13/2/25	10:10	76.4	13/2/25	14:10	62.9	13/2/25	18:10	61.7			
13/2/25	10:15	75.6	13/2/25	14:15	62.9	13/2/25	18:15	60.3			
13/2/25	10:20	66.3	13/2/25	14:20	63.4	13/2/25	18:20	62.2			
13/2/25	10:25	67.0	13/2/25	14:25	62.9	13/2/25	18:25	60.4			
13/2/25	10:30	66.6	13/2/25	14:30	62.7	13/2/25	18:30	61.6			
13/2/25	10:35	68.4	13/2/25	14:35	63.4	13/2/25	18:35	60.6			
13/2/25	10:40	67.4	13/2/25	14:40	62.6	13/2/25	18:40	61.2			
13/2/25	10:45	66.3	13/2/25	14:45	62.4	13/2/25	18:45	60.8			
13/2/25	10:50	65.6	13/2/25	14:50	62.8	13/2/25	18:50	60.8			
13/2/25	10:55	64.3	13/2/25	14:55	61.4	13/2/25	18:55	60.1			
13/2/25	11:00	63.9	13/2/25	15:00	61.4	13/2/25	19:00	61.8			

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM5 EIA Gillman Barracks								
REPORT REFERENCE			11/02/2025 - 18/02/2025								
Start	13/2/25	19:05	Leq12h	57.6				Weighting		A	
End	14/2/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
13/2/25	19:05	61.0	60.8	13/2/25	23:05	57.4	57.3	14/2/25	3:05	56.3	53.7
13/2/25	19:10	61.0		13/2/25	23:10	56.9		14/2/25	3:10	52.5	
13/2/25	19:15	61.0		13/2/25	23:15	58.8		14/2/25	3:15	52.7	
13/2/25	19:20	61.0		13/2/25	23:20	55.2		14/2/25	3:20	51.7	
13/2/25	19:25	61.5		13/2/25	23:25	57.3		14/2/25	3:25	53.5	
13/2/25	19:30	60.1		13/2/25	23:30	57.7		14/2/25	3:30	55.2	
13/2/25	19:35	61.1		13/2/25	23:35	57.8		14/2/25	3:35	54.3	
13/2/25	19:40	60.4		13/2/25	23:40	58.1		14/2/25	3:40	51.1	
13/2/25	19:45	61.6		13/2/25	23:45	58.0		14/2/25	3:45	51.7	
13/2/25	19:50	59.7		13/2/25	23:50	57.0		14/2/25	3:50	56.8	
13/2/25	19:55	61.0	59.5	13/2/25	23:55	56.4	55.4	14/2/25	3:55	49.9	53.4
13/2/25	20:00	60.1		13/2/25	0:00	55.7		14/2/25	4:00	52.4	
13/2/25	20:05	60.3		14/2/25	0:05	56.1		14/2/25	4:05	53.3	
13/2/25	20:10	59.8		14/2/25	0:10	56.9		14/2/25	4:10	48.2	
13/2/25	20:15	59.5		14/2/25	0:15	58.9		14/2/25	4:15	51.5	
13/2/25	20:20	60.0		14/2/25	0:20	54.3		14/2/25	4:20	56.6	
13/2/25	20:25	59.6		14/2/25	0:25	53.9		14/2/25	4:25	53.4	
13/2/25	20:30	58.8		14/2/25	0:30	54.5		14/2/25	4:30	54.7	
13/2/25	20:35	58.0		14/2/25	0:35	53.3		14/2/25	4:35	52.7	
13/2/25	20:40	57.8		14/2/25	0:40	56.5		14/2/25	4:40	51.4	
13/2/25	20:45	60.0	59.2	14/2/25	0:45	53.8	53.9	14/2/25	4:45	53.4	56.4
13/2/25	20:50	58.6		14/2/25	0:50	53.2		14/2/25	4:50	54.6	
13/2/25	20:55	60.2		14/2/25	0:55	53.5		14/2/25	4:55	51.9	
13/2/25	21:00	60.0		14/2/25	1:00	55.2		14/2/25	5:00	54.4	
13/2/25	21:05	58.9		14/2/25	1:05	52.6		14/2/25	5:05	56.6	
13/2/25	21:10	59.7		14/2/25	1:10	53.5		14/2/25	5:10	54.4	
13/2/25	21:15	58.5		14/2/25	1:15	54.2		14/2/25	5:15	57.6	
13/2/25	21:20	59.0		14/2/25	1:20	53.0		14/2/25	5:20	56.5	
13/2/25	21:25	60.3		14/2/25	1:25	53.6		14/2/25	5:25	57.5	
13/2/25	21:30	58.7		14/2/25	1:30	54.7		14/2/25	5:30	58.5	
13/2/25	21:35	60.3	59.6	14/2/25	1:35	52.1	53.7	14/2/25	5:35	53.4	59.3
13/2/25	21:40	59.6		14/2/25	1:40	53.8		14/2/25	5:40	54.9	
13/2/25	21:45	57.8		14/2/25	1:45	54.4		14/2/25	5:45	55.7	
13/2/25	21:50	58.8		14/2/25	1:50	53.4		14/2/25	5:50	55.2	
13/2/25	21:55	59.1		14/2/25	1:55	54.0		14/2/25	5:55	56.9	
13/2/25	22:00	59.0		14/2/25	2:00	56.0		14/2/25	6:00	57.3	
13/2/25	22:05	59.0		14/2/25	2:05	54.2		14/2/25	6:05	57.8	
13/2/25	22:10	57.7		14/2/25	2:10	56.1		14/2/25	6:10	56.8	
13/2/25	22:15	60.0		14/2/25	2:15	56.0		14/2/25	6:15	58.1	
13/2/25	22:20	60.3		14/2/25	2:20	53.9		14/2/25	6:20	58.8	
13/2/25	22:25	63.3	14/2/25	2:25	51.2	14/2/25		6:25	58.1		
13/2/25	22:30	58.6	14/2/25	2:30	52.2	14/2/25		6:30	59.1		
13/2/25	22:35	59.2	14/2/25	2:35	51.3	14/2/25		6:35	58.7		
13/2/25	22:40	58.8	14/2/25	2:40	56.8	14/2/25		6:40	61.1		
13/2/25	22:45	59.2	14/2/25	2:45	50.3	14/2/25		6:45	60.9		
13/2/25	22:50	58.5	14/2/25	2:50	50.5	14/2/25		6:50	59.1		
13/2/25	22:55	58.2	14/2/25	2:55	53.0	14/2/25		6:55	60.1		
13/2/25	23:00	59.6	59.6	14/2/25	3:00	52.2		53.7	14/2/25	7:00	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM5 EIA Gillman Barracks								
REPORT REFERENCE			11/02/2025 - 18/02/2025								
Start	14/2/25	7:05	Leq12h			64.1	Weighting			A	
End	14/2/25	19:00									
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m			
14/2/25	7:05	61.1	14/2/25	11:05	63.5	14/2/25	15:05	62.6			
14/2/25	7:10	60.5	14/2/25	11:10	64.1	14/2/25	15:10	61.8			
14/2/25	7:15	62.5	14/2/25	11:15	64.8	14/2/25	15:15	64.8			
14/2/25	7:20	60.8	14/2/25	11:20	62.7	14/2/25	15:20	63.6			
14/2/25	7:25	60.9	14/2/25	11:25	65.3	14/2/25	15:25	63.1			
14/2/25	7:30	62.7	14/2/25	11:30	67.2	14/2/25	15:30	60.9			
14/2/25	7:35	63.9	14/2/25	11:35	63.4	14/2/25	15:35	62.7			
14/2/25	7:40	61.4	14/2/25	11:40	65.0	14/2/25	15:40	62.6			
14/2/25	7:45	64.0	14/2/25	11:45	63.8	14/2/25	15:45	62.3			
14/2/25	7:50	62.2	14/2/25	11:50	66.8	14/2/25	15:50	69.9			
14/2/25	7:55	63.0	14/2/25	11:55	64.6	14/2/25	15:55	63.0			
14/2/25	8:00	63.5	14/2/25	12:00	65.2	14/2/25	16:00	69.2			
14/2/25	8:05	62.3	14/2/25	12:05	64.9	14/2/25	16:05	66.3			
14/2/25	8:10	62.8	14/2/25	12:10	62.8	14/2/25	16:10	63.6			
14/2/25	8:15	63.1	14/2/25	12:15	63.5	14/2/25	16:15	70.7			
14/2/25	8:20	65.9	14/2/25	12:20	63.5	14/2/25	16:20	62.2			
14/2/25	8:25	62.2	14/2/25	12:25	64.0	14/2/25	16:25	64.9			
14/2/25	8:30	64.1	14/2/25	12:30	63.1	14/2/25	16:30	65.0			
14/2/25	8:35	63.4	14/2/25	12:35	64.8	14/2/25	16:35	67.7			
14/2/25	8:40	62.9	14/2/25	12:40	61.7	14/2/25	16:40	66.3			
14/2/25	8:45	61.9	14/2/25	12:45	62.5	14/2/25	16:45	65.0			
14/2/25	8:50	61.7	14/2/25	12:50	61.7	14/2/25	16:50	65.2			
14/2/25	8:55	61.4	14/2/25	12:55	64.5	14/2/25	16:55	65.1			
14/2/25	9:00	62.8	14/2/25	13:00	62.3	14/2/25	17:00	66.5			
14/2/25	9:05	61.5	14/2/25	13:05	62.1	14/2/25	17:05	66.1			
14/2/25	9:10	65.1	14/2/25	13:10	60.9	14/2/25	17:10	66.8			
14/2/25	9:15	62.8	14/2/25	13:15	62.9	14/2/25	17:15	65.3			
14/2/25	9:20	69.2	14/2/25	13:20	63.9	14/2/25	17:20	63.5			
14/2/25	9:25	62.8	14/2/25	13:25	61.6	14/2/25	17:25	62.5			
14/2/25	9:30	61.8	14/2/25	13:30	61.3	14/2/25	17:30	63.0			
14/2/25	9:35	61.7	14/2/25	13:35	61.8	14/2/25	17:35	63.0			
14/2/25	9:40	64.1	14/2/25	13:40	62.7	14/2/25	17:40	64.1			
14/2/25	9:45	66.5	14/2/25	13:45	65.4	14/2/25	17:45	63.8			
14/2/25	9:50	65.9	14/2/25	13:50	61.7	14/2/25	17:50	62.1			
14/2/25	9:55	62.3	14/2/25	13:55	62.5	14/2/25	17:55	63.0			
14/2/25	10:00	69.9	14/2/25	14:00	62.6	14/2/25	18:00	62.8			
14/2/25	10:05	61.8	14/2/25	14:05	61.8	14/2/25	18:05	62.1			
14/2/25	10:10	62.9	14/2/25	14:10	62.0	14/2/25	18:10	63.0			
14/2/25	10:15	67.6	14/2/25	14:15	62.3	14/2/25	18:15	61.4			
14/2/25	10:20	62.8	14/2/25	14:20	61.2	14/2/25	18:20	62.5			
14/2/25	10:25	62.1	14/2/25	14:25	61.8	14/2/25	18:25	62.4			
14/2/25	10:30	70.2	14/2/25	14:30	61.3	14/2/25	18:30	62.0			
14/2/25	10:35	69.9	14/2/25	14:35	64.0	14/2/25	18:35	61.4			
14/2/25	10:40	62.5	14/2/25	14:40	63.2	14/2/25	18:40	62.3			
14/2/25	10:45	62.2	14/2/25	14:45	62.1	14/2/25	18:45	61.5			
14/2/25	10:50	62.6	14/2/25	14:50	61.2	14/2/25	18:50	62.8			
14/2/25	10:55	62.7	14/2/25	14:55	61.3	14/2/25	18:55	60.9			
14/2/25	11:00	63.6	14/2/25	15:00	64.9	14/2/25	19:00	61.3			

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM5 EIA Gillman Barracks								
REPORT REFERENCE			11/02/2025 - 18/02/2025								
Start	14/2/25	19:05	Leq12h		59.7		Weighting			A	
End	15/2/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
14/2/25	19:05	63.0	62.0	14/2/25	23:05	61.6	59.1	15/2/25	3:05	54.7	56.0
14/2/25	19:10	60.0		14/2/25	23:10	58.0		15/2/25	3:10	53.2	
14/2/25	19:15	61.1		14/2/25	23:15	59.8		15/2/25	3:15	53.6	
14/2/25	19:20	62.1		14/2/25	23:20	57.3		15/2/25	3:20	53.9	
14/2/25	19:25	63.6		14/2/25	23:25	60.6		15/2/25	3:25	53.1	
14/2/25	19:30	61.6		14/2/25	23:30	59.2		15/2/25	3:30	52.3	
14/2/25	19:35	60.3		14/2/25	23:35	58.4		15/2/25	3:35	57.8	
14/2/25	19:40	63.6		14/2/25	23:40	58.2		15/2/25	3:40	61.8	
14/2/25	19:45	63.2		14/2/25	23:45	58.2		15/2/25	3:45	57.5	
14/2/25	19:50	60.7		14/2/25	23:50	59.0		15/2/25	3:50	53.9	
14/2/25	19:55	60.6	60.0	14/2/25	23:55	58.3	57.4	15/2/25	3:55	55.0	61.8
14/2/25	20:00	61.6		14/2/25	0:00	57.9		15/2/25	4:00	52.0	
14/2/25	20:05	60.2		15/2/25	0:05	57.5		15/2/25	4:05	52.1	
14/2/25	20:10	59.8		15/2/25	0:10	57.1		15/2/25	4:10	57.8	
14/2/25	20:15	59.8		15/2/25	0:15	58.8		15/2/25	4:15	51.3	
14/2/25	20:20	60.1		15/2/25	0:20	59.1		15/2/25	4:20	71.0	
14/2/25	20:25	60.7		15/2/25	0:25	55.6		15/2/25	4:25	53.8	
14/2/25	20:30	59.8		15/2/25	0:30	57.1		15/2/25	4:30	54.0	
14/2/25	20:35	60.1		15/2/25	0:35	58.5		15/2/25	4:35	54.6	
14/2/25	20:40	60.7		15/2/25	0:40	55.9		15/2/25	4:40	55.4	
14/2/25	20:45	59.9	60.0	15/2/25	0:45	55.7	55.7	15/2/25	4:45	55.7	61.8
14/2/25	20:50	60.1		15/2/25	0:50	55.2		15/2/25	4:50	56.5	
14/2/25	20:55	60.0		15/2/25	0:55	59.7		15/2/25	4:55	61.3	
14/2/25	21:00	58.8		15/2/25	1:00	54.8		15/2/25	5:00	61.9	
14/2/25	21:05	60.0		15/2/25	1:05	56.8		15/2/25	5:05	62.2	
14/2/25	21:10	59.1		15/2/25	1:10	55.9		15/2/25	5:10	62.3	
14/2/25	21:15	59.4		15/2/25	1:15	54.5		15/2/25	5:15	62.6	
14/2/25	21:20	59.5		15/2/25	1:20	56.0		15/2/25	5:20	62.4	
14/2/25	21:25	61.4		15/2/25	1:25	56.0		15/2/25	5:25	62.0	
14/2/25	21:30	59.6		15/2/25	1:30	56.8		15/2/25	5:30	62.4	
14/2/25	21:35	61.2	59.6	15/2/25	1:35	55.5	56.4	15/2/25	5:35	62.5	60.0
14/2/25	21:40	59.2		15/2/25	1:40	54.9		15/2/25	5:40	62.3	
14/2/25	21:45	59.9		15/2/25	1:45	54.6		15/2/25	5:45	62.0	
14/2/25	21:50	61.0		15/2/25	1:50	57.9		15/2/25	5:50	63.0	
14/2/25	21:55	59.9		15/2/25	1:55	53.0		15/2/25	5:55	56.8	
14/2/25	22:00	59.4		15/2/25	2:00	54.0		15/2/25	6:00	57.5	
14/2/25	22:05	59.6		15/2/25	2:05	58.0		15/2/25	6:05	58.0	
14/2/25	22:10	59.1		15/2/25	2:10	58.4		15/2/25	6:10	58.7	
14/2/25	22:15	59.2		15/2/25	2:15	55.2		15/2/25	6:15	57.2	
14/2/25	22:20	59.3		15/2/25	2:20	57.2		15/2/25	6:20	57.9	
14/2/25	22:25	58.2	59.6	15/2/25	2:25	57.8	56.4	15/2/25	6:25	59.2	60.0
14/2/25	22:30	59.7		15/2/25	2:30	55.7		15/2/25	6:30	57.9	
14/2/25	22:35	60.8		15/2/25	2:35	53.9		15/2/25	6:35	63.0	
14/2/25	22:40	59.8		15/2/25	2:40	55.5		15/2/25	6:40	63.2	
14/2/25	22:45	60.3		15/2/25	2:45	57.1		15/2/25	6:45	60.7	
14/2/25	22:50	58.6		15/2/25	2:50	55.1		15/2/25	6:50	60.1	
14/2/25	22:55	60.1		15/2/25	2:55	56.2		15/2/25	6:55	58.8	
14/2/25	23:00	59.5		15/2/25	3:00	52.7		15/2/25	7:00	59.4	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM5 EIA Gillman Barracks								
REPORT REFERENCE			11/02/2025 - 18/02/2025								
Start	15/2/25	7:05	Leq12h			62.9	Weighting			A	
End	15/2/25	19:00									
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m			
15/2/25	7:05	60.2	15/2/25	11:05	60.8	15/2/25	15:05	61.1			
15/2/25	7:10	60.5	15/2/25	11:10	61.2	15/2/25	15:10	60.8			
15/2/25	7:15	59.5	15/2/25	11:15	62.3	15/2/25	15:15	66.5			
15/2/25	7:20	60.3	15/2/25	11:20	62.0	15/2/25	15:20	64.8			
15/2/25	7:25	58.8	15/2/25	11:25	61.2	15/2/25	15:25	64.7			
15/2/25	7:30	60.5	15/2/25	11:30	61.5	15/2/25	15:30	64.9			
15/2/25	7:35	61.9	15/2/25	11:35	62.2	15/2/25	15:35	64.3			
15/2/25	7:40	63.0	15/2/25	11:40	62.2	15/2/25	15:40	64.2			
15/2/25	7:45	60.6	15/2/25	11:45	61.2	15/2/25	15:45	62.9			
15/2/25	7:50	61.3	15/2/25	11:50	61.8	15/2/25	15:50	62.9			
15/2/25	7:55	60.7	15/2/25	11:55	63.0	15/2/25	15:55	64.9			
15/2/25	8:00	60.2	15/2/25	12:00	63.1	15/2/25	16:00	63.9			
15/2/25	8:05	62.3	15/2/25	12:05	62.7	15/2/25	16:05	64.3			
15/2/25	8:10	63.3	15/2/25	12:10	63.3	15/2/25	16:10	64.2			
15/2/25	8:15	62.8	15/2/25	12:15	62.6	15/2/25	16:15	63.7			
15/2/25	8:20	62.2	15/2/25	12:20	63.0	15/2/25	16:20	67.6			
15/2/25	8:25	62.3	15/2/25	12:25	63.0	15/2/25	16:25	67.7			
15/2/25	8:30	62.1	15/2/25	12:30	63.3	15/2/25	16:30	67.6			
15/2/25	8:35	62.2	15/2/25	12:35	62.1	15/2/25	16:35	67.2			
15/2/25	8:40	61.8	15/2/25	12:40	63.5	15/2/25	16:40	67.1			
15/2/25	8:45	61.3	15/2/25	12:45	62.7	15/2/25	16:45	66.1			
15/2/25	8:50	61.2	15/2/25	12:50	62.4	15/2/25	16:50	65.4			
15/2/25	8:55	61.2	15/2/25	12:55	63.2	15/2/25	16:55	64.9			
15/2/25	9:00	62.7	15/2/25	13:00	62.4	15/2/25	17:00	64.2			
15/2/25	9:05	61.2	15/2/25	13:05	61.5	15/2/25	17:05	65.0			
15/2/25	9:10	61.7	15/2/25	13:10	61.5	15/2/25	17:10	62.8			
15/2/25	9:15	61.0	15/2/25	13:15	62.0	15/2/25	17:15	64.3			
15/2/25	9:20	63.1	15/2/25	13:20	61.8	15/2/25	17:20	61.2			
15/2/25	9:25	61.9	15/2/25	13:25	63.2	15/2/25	17:25	61.4			
15/2/25	9:30	63.5	15/2/25	13:30	64.9	15/2/25	17:30	61.9			
15/2/25	9:35	62.9	15/2/25	13:35	60.2	15/2/25	17:35	63.1			
15/2/25	9:40	62.2	15/2/25	13:40	62.8	15/2/25	17:40	62.8			
15/2/25	9:45	64.8	15/2/25	13:45	63.8	15/2/25	17:45	62.0			
15/2/25	9:50	63.5	15/2/25	13:50	63.3	15/2/25	17:50	62.0			
15/2/25	9:55	62.6	15/2/25	13:55	62.8	15/2/25	17:55	61.7			
15/2/25	10:00	61.5	15/2/25	14:00	63.4	15/2/25	18:00	62.8			
15/2/25	10:05	61.2	15/2/25	14:05	63.0	15/2/25	18:05	61.6			
15/2/25	10:10	60.9	15/2/25	14:10	64.4	15/2/25	18:10	61.6			
15/2/25	10:15	60.9	15/2/25	14:15	63.1	15/2/25	18:15	62.5			
15/2/25	10:20	60.3	15/2/25	14:20	62.2	15/2/25	18:20	64.5			
15/2/25	10:25	61.4	15/2/25	14:25	62.0	15/2/25	18:25	62.2			
15/2/25	10:30	62.8	15/2/25	14:30	61.1	15/2/25	18:30	61.9			
15/2/25	10:35	62.8	15/2/25	14:35	61.0	15/2/25	18:35	62.0			
15/2/25	10:40	61.9	15/2/25	14:40	60.9	15/2/25	18:40	61.0			
15/2/25	10:45	61.7	15/2/25	14:45	60.7	15/2/25	18:45	61.5			
15/2/25	10:50	62.2	15/2/25	14:50	61.8	15/2/25	18:50	60.8			
15/2/25	10:55	61.6	15/2/25	14:55	61.3	15/2/25	18:55	63.3			
15/2/25	11:00	61.4	15/2/25	15:00	61.3	15/2/25	19:00	62.5			

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM5 EIA Gillman Barracks								
REPORT REFERENCE			11/02/2025 - 18/02/2025								
Start	15/2/25		19:05	Leq12h		56.6		Weighting		A	
End	16/2/25		7:00								
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
15/2/25	19:05	60.0	59.4	15/2/25	23:05	56.5	57.3	16/2/25	3:05	53.6	52.9
15/2/25	19:10	61.8		15/2/25	23:10	55.9		16/2/25	3:10	51.2	
15/2/25	19:15	61.4		15/2/25	23:15	56.9		16/2/25	3:15	50.5	
15/2/25	19:20	58.3		15/2/25	23:20	58.2		16/2/25	3:20	53.2	
15/2/25	19:25	59.0		15/2/25	23:25	59.9		16/2/25	3:25	54.5	
15/2/25	19:30	59.8		15/2/25	23:30	57.5		16/2/25	3:30	53.4	
15/2/25	19:35	59.3		15/2/25	23:35	57.8		16/2/25	3:35	51.5	
15/2/25	19:40	58.4		15/2/25	23:40	57.3		16/2/25	3:40	51.7	
15/2/25	19:45	57.6		15/2/25	23:45	55.7		16/2/25	3:45	52.2	
15/2/25	19:50	57.8		15/2/25	23:50	55.3		16/2/25	3:50	51.6	
15/2/25	19:55	58.6	58.2	15/2/25	23:55	56.9	55.9	16/2/25	3:55	55.3	53.0
15/2/25	20:00	58.8		15/2/25	0:00	57.7		16/2/25	4:00	53.3	
15/2/25	20:05	57.7		16/2/25	0:05	56.1		16/2/25	4:05	54.9	
15/2/25	20:10	58.3		16/2/25	0:10	55.8		16/2/25	4:10	52.1	
15/2/25	20:15	58.3		16/2/25	0:15	54.6		16/2/25	4:15	53.7	
15/2/25	20:20	57.9		16/2/25	0:20	55.9		16/2/25	4:20	52.5	
15/2/25	20:25	58.5		16/2/25	0:25	55.7		16/2/25	4:25	52.5	
15/2/25	20:30	57.8		16/2/25	0:30	55.6		16/2/25	4:30	53.5	
15/2/25	20:35	56.9		16/2/25	0:35	55.8		16/2/25	4:35	52.9	
15/2/25	20:40	58.7		16/2/25	0:40	57.4		16/2/25	4:40	50.3	
15/2/25	20:45	58.2	58.0	16/2/25	0:45	55.1	56.1	16/2/25	4:45	49.3	53.7
15/2/25	20:50	58.0		16/2/25	0:50	58.5		16/2/25	4:50	52.1	
15/2/25	20:55	58.0		16/2/25	0:55	55.2		16/2/25	4:55	52.7	
15/2/25	21:00	59.7		16/2/25	1:00	53.4		16/2/25	5:00	55.9	
15/2/25	21:05	57.8		16/2/25	1:05	61.0		16/2/25	5:05	53.2	
15/2/25	21:10	58.2		16/2/25	1:10	56.3		16/2/25	5:10	52.1	
15/2/25	21:15	57.7		16/2/25	1:15	59.8		16/2/25	5:15	53.7	
15/2/25	21:20	57.3		16/2/25	1:20	54.7		16/2/25	5:20	52.9	
15/2/25	21:25	58.4		16/2/25	1:25	53.4		16/2/25	5:25	54.4	
15/2/25	21:30	59.3		16/2/25	1:30	53.8		16/2/25	5:30	53.2	
15/2/25	21:35	57.2	58.5	16/2/25	1:35	54.9	54.0	16/2/25	5:35	53.6	56.0
15/2/25	21:40	58.4		16/2/25	1:40	54.5		16/2/25	5:40	51.9	
15/2/25	21:45	58.4		16/2/25	1:45	53.3		16/2/25	5:45	54.1	
15/2/25	21:50	57.2		16/2/25	1:50	53.7		16/2/25	5:50	53.7	
15/2/25	21:55	58.2		16/2/25	1:55	53.8		16/2/25	5:55	54.2	
15/2/25	22:00	57.3		16/2/25	2:00	53.5		16/2/25	6:00	55.9	
15/2/25	22:05	59.8		16/2/25	2:05	54.6		16/2/25	6:05	55.1	
15/2/25	22:10	59.4		16/2/25	2:10	53.7		16/2/25	6:10	56.0	
15/2/25	22:15	58.0		16/2/25	2:15	51.7		16/2/25	6:15	53.7	
15/2/25	22:20	58.7		16/2/25	2:20	57.3		16/2/25	6:20	56.7	
15/2/25	22:25	59.8	58.5	16/2/25	2:25	54.3	54.0	16/2/25	6:25	55.5	56.0
15/2/25	22:30	59.5		16/2/25	2:30	51.7		16/2/25	6:30	55.2	
15/2/25	22:35	58.0		16/2/25	2:35	55.8		16/2/25	6:35	57.1	
15/2/25	22:40	57.6		16/2/25	2:40	52.1		16/2/25	6:40	57.1	
15/2/25	22:45	56.0		16/2/25	2:45	53.6		16/2/25	6:45	56.7	
15/2/25	22:50	56.1		16/2/25	2:50	51.0		16/2/25	6:50	56.3	
15/2/25	22:55	59.3		16/2/25	2:55	54.6		16/2/25	6:55	55.6	
15/2/25	23:00	57.2		16/2/25	3:00	53.3		16/2/25	7:00	56.4	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM5 EIA Gillman Barracks						
REPORT REFERENCE			11/02/2025 - 18/02/2025						
Start	16/2/25	7:05	Leq12h	58.3	Weighting				A
End	16/2/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m	
16/2/25	7:05	56.2	16/2/25	11:05	58.2	16/2/25	15:05	57.0	
16/2/25	7:10	56.5	16/2/25	11:10	58.7	16/2/25	15:10	58.1	
16/2/25	7:15	58.0	16/2/25	11:15	59.0	16/2/25	15:15	58.4	
16/2/25	7:20	58.5	16/2/25	11:20	58.7	16/2/25	15:20	57.3	
16/2/25	7:25	58.3	16/2/25	11:25	59.2	16/2/25	15:25	59.7	
16/2/25	7:30	57.9	16/2/25	11:30	58.6	16/2/25	15:30	57.3	
16/2/25	7:35	56.7	16/2/25	11:35	57.8	16/2/25	15:35	58.4	
16/2/25	7:40	56.7	16/2/25	11:40	57.5	16/2/25	15:40	57.9	
16/2/25	7:45	58.5	16/2/25	11:45	58.5	16/2/25	15:45	58.1	
16/2/25	7:50	56.4	16/2/25	11:50	57.8	16/2/25	15:50	57.2	
16/2/25	7:55	57.6	16/2/25	11:55	57.7	16/2/25	15:55	57.4	
16/2/25	8:00	59.0	16/2/25	12:00	58.6	16/2/25	16:00	57.7	
16/2/25	8:05	57.6	16/2/25	12:05	58.5	16/2/25	16:05	57.1	
16/2/25	8:10	57.4	16/2/25	12:10	58.2	16/2/25	16:10	58.8	
16/2/25	8:15	57.2	16/2/25	12:15	57.8	16/2/25	16:15	57.9	
16/2/25	8:20	59.2	16/2/25	12:20	58.9	16/2/25	16:20	57.9	
16/2/25	8:25	57.3	16/2/25	12:25	59.5	16/2/25	16:25	58.5	
16/2/25	8:30	58.7	16/2/25	12:30	58.4	16/2/25	16:30	58.7	
16/2/25	8:35	58.5	16/2/25	12:35	58.5	16/2/25	16:35	60.2	
16/2/25	8:40	58.7	16/2/25	12:40	58.4	16/2/25	16:40	59.1	
16/2/25	8:45	58.5	16/2/25	12:45	58.2	16/2/25	16:45	58.5	
16/2/25	8:50	57.9	16/2/25	12:50	57.5	16/2/25	16:50	59.0	
16/2/25	8:55	57.8	16/2/25	12:55	58.0	16/2/25	16:55	58.9	
16/2/25	9:00	57.8	16/2/25	13:00	58.1	16/2/25	17:00	58.8	
16/2/25	9:05	58.0	16/2/25	13:05	58.2	16/2/25	17:05	59.8	
16/2/25	9:10	57.3	16/2/25	13:10	58.2	16/2/25	17:10	58.9	
16/2/25	9:15	58.4	16/2/25	13:15	57.7	16/2/25	17:15	58.5	
16/2/25	9:20	58.7	16/2/25	13:20	61.5	16/2/25	17:20	57.9	
16/2/25	9:25	57.6	16/2/25	13:25	58.5	16/2/25	17:25	59.7	
16/2/25	9:30	57.6	16/2/25	13:30	59.0	16/2/25	17:30	57.1	
16/2/25	9:35	60.5	16/2/25	13:35	58.0	16/2/25	17:35	58.4	
16/2/25	9:40	57.5	16/2/25	13:40	58.1	16/2/25	17:40	58.8	
16/2/25	9:45	59.3	16/2/25	13:45	57.9	16/2/25	17:45	58.4	
16/2/25	9:50	60.0	16/2/25	13:50	58.2	16/2/25	17:50	57.5	
16/2/25	9:55	58.3	16/2/25	13:55	57.5	16/2/25	17:55	58.6	
16/2/25	10:00	57.2	16/2/25	14:00	57.7	16/2/25	18:00	57.6	
16/2/25	10:05	58.8	16/2/25	14:05	57.7	16/2/25	18:05	58.3	
16/2/25	10:10	58.1	16/2/25	14:10	58.0	16/2/25	18:10	60.0	
16/2/25	10:15	57.8	16/2/25	14:15	58.3	16/2/25	18:15	59.0	
16/2/25	10:20	58.0	16/2/25	14:20	57.6	16/2/25	18:20	58.0	
16/2/25	10:25	58.1	16/2/25	14:25	57.6	16/2/25	18:25	58.8	
16/2/25	10:30	58.5	16/2/25	14:30	59.0	16/2/25	18:30	58.5	
16/2/25	10:35	57.9	16/2/25	14:35	57.6	16/2/25	18:35	57.7	
16/2/25	10:40	58.2	16/2/25	14:40	57.5	16/2/25	18:40	57.7	
16/2/25	10:45	58.8	16/2/25	14:45	57.9	16/2/25	18:45	58.8	
16/2/25	10:50	58.4	16/2/25	14:50	57.4	16/2/25	18:50	57.1	
16/2/25	10:55	59.0	16/2/25	14:55	58.0	16/2/25	18:55	57.7	
16/2/25	11:00	57.6	16/2/25	15:00	57.3	16/2/25	19:00	59.0	

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM5 EIA Gillman Barracks							
REPORT REFERENCE				11/02/2025 - 18/02/2025							
Start	16/2/25	19:05		Leq12h	55.5			Weighting		A	
End	17/2/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
16/2/25	19:05	57.4	57.8	16/2/25	23:05	57.2	55.2	17/2/25	3:05	52.5	50.7
16/2/25	19:10	56.8		16/2/25	23:10	55.7		17/2/25	3:10	51.9	
16/2/25	19:15	57.9		16/2/25	23:15	54.7		17/2/25	3:15	49.5	
16/2/25	19:20	57.3		16/2/25	23:20	54.3		17/2/25	3:20	49.3	
16/2/25	19:25	57.4		16/2/25	23:25	54.7		17/2/25	3:25	50.5	
16/2/25	19:30	57.9		16/2/25	23:30	55.2		17/2/25	3:30	48.1	
16/2/25	19:35	58.4		16/2/25	23:35	54.8		17/2/25	3:35	48.7	
16/2/25	19:40	58.1		16/2/25	23:40	54.6		17/2/25	3:40	52.2	
16/2/25	19:45	58.1		16/2/25	23:45	53.8		17/2/25	3:45	51.2	
16/2/25	19:50	57.4		16/2/25	23:50	53.7		17/2/25	3:50	51.1	
16/2/25	19:55	57.5	57.2	16/2/25	23:55	56.7	53.5	17/2/25	3:55	48.5	52.4
16/2/25	20:00	58.8		16/2/25	0:00	55.4		17/2/25	4:00	51.5	
16/2/25	20:05	57.8		17/2/25	0:05	53.8		17/2/25	4:05	49.3	
16/2/25	20:10	57.2		17/2/25	0:10	53.7		17/2/25	4:10	49.7	
16/2/25	20:15	57.5		17/2/25	0:15	51.9		17/2/25	4:15	51.6	
16/2/25	20:20	56.6		17/2/25	0:20	52.3		17/2/25	4:20	54.4	
16/2/25	20:25	58.4		17/2/25	0:25	57.8		17/2/25	4:25	49.9	
16/2/25	20:30	57.0		17/2/25	0:30	52.4		17/2/25	4:30	49.4	
16/2/25	20:35	56.8		17/2/25	0:35	51.8		17/2/25	4:35	50.9	
16/2/25	20:40	57.4		17/2/25	0:40	52.1		17/2/25	4:40	53.8	
16/2/25	20:45	56.7	57.6	17/2/25	0:45	52.5	53.5	17/2/25	4:45	53.2	55.0
16/2/25	20:50	57.6		17/2/25	0:50	54.2		17/2/25	4:50	55.5	
16/2/25	20:55	55.9		17/2/25	0:55	52.7		17/2/25	4:55	53.3	
16/2/25	21:00	57.0		17/2/25	1:00	52.5		17/2/25	5:00	51.4	
16/2/25	21:05	57.3		17/2/25	1:05	52.4		17/2/25	5:05	53.6	
16/2/25	21:10	56.4		17/2/25	1:10	51.6		17/2/25	5:10	52.9	
16/2/25	21:15	57.5		17/2/25	1:15	54.3		17/2/25	5:15	53.6	
16/2/25	21:20	56.7		17/2/25	1:20	52.5		17/2/25	5:20	53.0	
16/2/25	21:25	56.8		17/2/25	1:25	50.9		17/2/25	5:25	55.7	
16/2/25	21:30	57.0		17/2/25	1:30	53.4		17/2/25	5:30	53.7	
16/2/25	21:35	57.0	56.2	17/2/25	1:35	54.0	51.2	17/2/25	5:35	56.4	58.1
16/2/25	21:40	56.4		17/2/25	1:40	54.1		17/2/25	5:40	54.9	
16/2/25	21:45	59.2		17/2/25	1:45	52.8		17/2/25	5:45	55.9	
16/2/25	21:50	58.7		17/2/25	1:50	50.5		17/2/25	5:50	55.7	
16/2/25	21:55	58.8		17/2/25	1:55	52.1		17/2/25	5:55	54.8	
16/2/25	22:00	57.6		17/2/25	2:00	57.9		17/2/25	6:00	57.4	
16/2/25	22:05	56.8		17/2/25	2:05	50.0		17/2/25	6:05	54.7	
16/2/25	22:10	56.4		17/2/25	2:10	54.5		17/2/25	6:10	57.6	
16/2/25	22:15	55.7		17/2/25	2:15	48.7		17/2/25	6:15	57.6	
16/2/25	22:20	57.8		17/2/25	2:20	48.7		17/2/25	6:20	56.1	
16/2/25	22:25	55.0	56.2	17/2/25	2:25	52.2	51.2	17/2/25	6:25	56.1	58.1
16/2/25	22:30	55.6		17/2/25	2:30	49.9		17/2/25	6:30	58.4	
16/2/25	22:35	57.7		17/2/25	2:35	55.1		17/2/25	6:35	60.1	
16/2/25	22:40	55.2		17/2/25	2:40	50.6		17/2/25	6:40	59.1	
16/2/25	22:45	55.2		17/2/25	2:45	50.9		17/2/25	6:45	58.5	
16/2/25	22:50	55.5		17/2/25	2:50	49.0		17/2/25	6:50	58.4	
16/2/25	22:55	55.3		17/2/25	2:55	47.9		17/2/25	6:55	59.3	
16/2/25	23:00	56.5		17/2/25	3:00	50.1		17/2/25	7:00	59.0	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM5 EIA Gillman Barracks								
REPORT REFERENCE			11/02/2025 - 18/02/2025								
Start	17/2/25	7:05	Leq12h			62.9	Weighting			A	
End	17/2/25	19:00									
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m			
17/2/25	7:05	60.1	17/2/25	11:05	66.9	17/2/25	15:05	61.3			
17/2/25	7:10	60.3	17/2/25	11:10	66.0	17/2/25	15:10	60.8			
17/2/25	7:15	59.2	17/2/25	11:15	66.4	17/2/25	15:15	61.4			
17/2/25	7:20	59.4	17/2/25	11:20	64.0	17/2/25	15:20	62.0			
17/2/25	7:25	60.7	17/2/25	11:25	63.2	17/2/25	15:25	62.0			
17/2/25	7:30	61.3	17/2/25	11:30	63.5	17/2/25	15:30	61.9			
17/2/25	7:35	60.7	17/2/25	11:35	62.8	17/2/25	15:35	62.5			
17/2/25	7:40	62.4	17/2/25	11:40	62.5	17/2/25	15:40	61.3			
17/2/25	7:45	60.2	17/2/25	11:45	62.1	17/2/25	15:45	61.4			
17/2/25	7:50	61.2	17/2/25	11:50	62.8	17/2/25	15:50	63.5			
17/2/25	7:55	60.7	17/2/25	11:55	62.0	17/2/25	15:55	64.2			
17/2/25	8:00	61.7	17/2/25	12:00	63.1	17/2/25	16:00	63.0			
17/2/25	8:05	60.6	17/2/25	12:05	62.0	17/2/25	16:05	65.4			
17/2/25	8:10	61.4	17/2/25	12:10	63.1	17/2/25	16:10	63.8			
17/2/25	8:15	61.8	17/2/25	12:15	62.8	17/2/25	16:15	63.9			
17/2/25	8:20	62.6	17/2/25	12:20	62.8	17/2/25	16:20	64.1			
17/2/25	8:25	62.3	17/2/25	12:25	64.3	17/2/25	16:25	64.0			
17/2/25	8:30	62.7	17/2/25	12:30	63.8	17/2/25	16:30	63.8			
17/2/25	8:35	61.9	17/2/25	12:35	62.0	17/2/25	16:35	63.3			
17/2/25	8:40	61.7	17/2/25	12:40	62.9	17/2/25	16:40	62.9			
17/2/25	8:45	63.3	17/2/25	12:45	61.7	17/2/25	16:45	62.8			
17/2/25	8:50	63.3	17/2/25	12:50	63.0	17/2/25	16:50	63.7			
17/2/25	8:55	63.0	17/2/25	12:55	64.4	17/2/25	16:55	62.4			
17/2/25	9:00	62.2	17/2/25	13:00	62.5	17/2/25	17:00	62.5			
17/2/25	9:05	62.6	17/2/25	13:05	62.4	17/2/25	17:05	62.8			
17/2/25	9:10	62.9	17/2/25	13:10	62.7	17/2/25	17:10	63.1			
17/2/25	9:15	62.2	17/2/25	13:15	61.8	17/2/25	17:15	63.6			
17/2/25	9:20	64.4	17/2/25	13:20	62.9	17/2/25	17:20	62.9			
17/2/25	9:25	61.9	17/2/25	13:25	61.8	17/2/25	17:25	63.1			
17/2/25	9:30	61.6	17/2/25	13:30	62.0	17/2/25	17:30	63.6			
17/2/25	9:35	62.8	17/2/25	13:35	62.9	17/2/25	17:35	62.2			
17/2/25	9:40	63.3	17/2/25	13:40	62.6	17/2/25	17:40	63.3			
17/2/25	9:45	62.3	17/2/25	13:45	63.0	17/2/25	17:45	63.7			
17/2/25	9:50	62.9	17/2/25	13:50	61.5	17/2/25	17:50	63.8			
17/2/25	9:55	64.2	17/2/25	13:55	61.2	17/2/25	17:55	65.3			
17/2/25	10:00	61.5	17/2/25	14:00	61.6	17/2/25	18:00	65.3			
17/2/25	10:05	63.2	17/2/25	14:05	61.0	17/2/25	18:05	62.2			
17/2/25	10:10	62.2	17/2/25	14:10	62.2	17/2/25	18:10	63.0			
17/2/25	10:15	62.8	17/2/25	14:15	61.9	17/2/25	18:15	63.4			
17/2/25	10:20	65.0	17/2/25	14:20	61.9	17/2/25	18:20	63.3			
17/2/25	10:25	62.8	17/2/25	14:25	61.9	17/2/25	18:25	63.4			
17/2/25	10:30	62.7	17/2/25	14:30	65.3	17/2/25	18:30	62.5			
17/2/25	10:35	63.4	17/2/25	14:35	62.4	17/2/25	18:35	61.3			
17/2/25	10:40	63.2	17/2/25	14:40	63.8	17/2/25	18:40	61.8			
17/2/25	10:45	62.6	17/2/25	14:45	63.5	17/2/25	18:45	60.7			
17/2/25	10:50	63.9	17/2/25	14:50	61.1	17/2/25	18:50	61.0			
17/2/25	10:55	67.9	17/2/25	14:55	60.6	17/2/25	18:55	60.1			
17/2/25	11:00	66.5	17/2/25	15:00	62.0	17/2/25	19:00	60.9			

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM5 EIA Gillman Barracks								
REPORT REFERENCE			11/02/2025 - 18/02/2025								
Start	17/2/25		19:05	Leq12h			57.8		Weighting		A
End	18/2/25		7:00								
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
17/2/25	19:05	59.8	60.9	17/2/25	23:05	58.6	57.1	18/2/25	3:05	54.3	53.7
17/2/25	19:10	61.5		17/2/25	23:10	58.3		18/2/25	3:10	54.2	
17/2/25	19:15	63.3		17/2/25	23:15	60.5		18/2/25	3:15	54.7	
17/2/25	19:20	60.4		17/2/25	23:20	56.7		18/2/25	3:20	51.8	
17/2/25	19:25	61.6		17/2/25	23:25	57.1		18/2/25	3:25	56.0	
17/2/25	19:30	60.5		17/2/25	23:30	55.3		18/2/25	3:30	52.8	
17/2/25	19:35	60.6		17/2/25	23:35	57.0		18/2/25	3:35	53.0	
17/2/25	19:40	61.2		17/2/25	23:40	54.9		18/2/25	3:40	53.5	
17/2/25	19:45	60.9		17/2/25	23:45	54.3		18/2/25	3:45	52.2	
17/2/25	19:50	60.6		17/2/25	23:50	58.2		18/2/25	3:50	51.8	
17/2/25	19:55	60.2	60.1	17/2/25	23:55	53.4	56.0	18/2/25	3:55	53.9	53.9
17/2/25	20:00	58.8		17/2/25	0:00	55.6		18/2/25	4:00	54.3	
17/2/25	20:05	60.8		18/2/25	0:05	60.0		18/2/25	4:05	54.2	
17/2/25	20:10	58.5		18/2/25	0:10	55.1		18/2/25	4:10	53.3	
17/2/25	20:15	59.8		18/2/25	0:15	52.5		18/2/25	4:15	54.4	
17/2/25	20:20	59.9		18/2/25	0:20	56.6		18/2/25	4:20	52.8	
17/2/25	20:25	62.2		18/2/25	0:25	54.0		18/2/25	4:25	53.6	
17/2/25	20:30	60.4		18/2/25	0:30	53.9		18/2/25	4:30	56.0	
17/2/25	20:35	60.1		18/2/25	0:35	56.9		18/2/25	4:35	52.8	
17/2/25	20:40	60.7		18/2/25	0:40	54.8		18/2/25	4:40	55.0	
17/2/25	20:45	58.5	59.9	18/2/25	0:45	55.2	54.0	18/2/25	4:45	53.6	55.8
17/2/25	20:50	60.0		18/2/25	0:50	56.8		18/2/25	4:50	54.5	
17/2/25	20:55	59.5		18/2/25	0:55	54.2		18/2/25	4:55	53.0	
17/2/25	21:00	59.7		18/2/25	1:00	56.3		18/2/25	5:00	52.8	
17/2/25	21:05	63.7		18/2/25	1:05	56.2		18/2/25	5:05	53.8	
17/2/25	21:10	59.0		18/2/25	1:10	55.2		18/2/25	5:10	55.2	
17/2/25	21:15	58.1		18/2/25	1:15	53.2		18/2/25	5:15	56.3	
17/2/25	21:20	58.4		18/2/25	1:20	53.5		18/2/25	5:20	54.2	
17/2/25	21:25	57.7		18/2/25	1:25	53.7		18/2/25	5:25	54.6	
17/2/25	21:30	58.4		18/2/25	1:30	53.9		18/2/25	5:30	54.5	
17/2/25	21:35	58.6	58.4	18/2/25	1:35	53.0	55.4	18/2/25	5:35	58.0	59.4
17/2/25	21:40	61.1		18/2/25	1:40	53.6		18/2/25	5:40	55.0	
17/2/25	21:45	61.7		18/2/25	1:45	53.5		18/2/25	5:45	55.7	
17/2/25	21:50	58.7		18/2/25	1:50	53.2		18/2/25	5:50	55.9	
17/2/25	21:55	59.4		18/2/25	1:55	54.3		18/2/25	5:55	55.7	
17/2/25	22:00	59.3		18/2/25	2:00	53.0		18/2/25	6:00	58.3	
17/2/25	22:05	57.6		18/2/25	2:05	53.7		18/2/25	6:05	57.7	
17/2/25	22:10	58.5		18/2/25	2:10	54.8		18/2/25	6:10	57.0	
17/2/25	22:15	58.1		18/2/25	2:15	54.8		18/2/25	6:15	58.6	
17/2/25	22:20	57.4		18/2/25	2:20	56.0		18/2/25	6:20	57.1	
17/2/25	22:25	60.9	58.4	18/2/25	2:25	57.0	55.4	18/2/25	6:25	59.2	59.4
17/2/25	22:30	59.4		18/2/25	2:30	58.6		18/2/25	6:30	59.5	
17/2/25	22:35	58.7		18/2/25	2:35	54.4		18/2/25	6:35	61.5	
17/2/25	22:40	57.3		18/2/25	2:40	52.7		18/2/25	6:40	58.8	
17/2/25	22:45	59.4		18/2/25	2:45	52.6		18/2/25	6:45	60.7	
17/2/25	22:50	56.3		18/2/25	2:50	53.5		18/2/25	6:50	59.0	
17/2/25	22:55	57.2		18/2/25	2:55	56.2		18/2/25	6:55	60.7	
17/2/25	23:00	58.2		18/2/25	3:00	56.4		18/2/25	7:00	60.3	

CONFIDENTIAL

BASELINE NOISE SURVEY REPORT
NOISE MONITORING ENVIRONMENTAL WORK

REPORT REFERENCE NO: - 25022508/nms/ch2m/NM2GB/NM6

For

CH2M HILL SINGAPORE PTE LTD
150 Beach Road, Gateway West 34th Floor, Singapore 189720

Project Location:
NM6 EIA Gillman Barracks

Attention:
Ms Alicia Wong

Project Title.:
Baseline Noise Survey @ NM6 EIA Gillman Barracks

Monitoring Location:
NM6 (Front of S P JAIN SCHOOL OF GLOBAL MANAGEMENT)

Date of Monitoring:
11 February 2025 - 18 February 2025

Date of Report:
25 February 2025

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	TABLE OF CONTENT	PAGE
1.0	INTRODUCTION	3
2.0	NOISE SURVEY CONDITION	3
3.0	INSTRUMENTS	4
4.0	NOISE SURVEY TERMS	5
5.0	SURVEYING LOCATIONS	6
6.0	NOISE SURVEY RESULTS	7
7.0	SUMMARY	12
8.0	CONFIRMATION	12
	APPENDIX	
	APPENDIX A: INSTRUMENT LAYOUT PLAN	13
	APPENDIX B: NEA CONSTRUCTION NOISE CONTROL GUIDELINE	14
	APPENDIX C: NOISE MONITORING OFFICER CERTIFICATES	15
	APPENDIX D: INSTRUMENT CALIBRATION CERTIFICATES	17
	APPENDIX E: NOISE DATA	19

1.0 INTRODUCTION

ENSSCOM PTE LTD was commissioned by:

CH2M HILL Singapore Pte Ltd
150 Beach Road, Gateway West 34th Floor, Singapore 189720

The purpose of this survey was to assess the current acoustical environment to establish the baseline background noise level generated before start of construction activities for
Project Title - Baseline Noise Survey @ NM6 EIA Gillman Barracks

The survey is conducted in accordance to the Construction Noise control Guideline on NEA's permissible noise levels for construction sites and industrial premises.

2.0 NOISE SURVEY CONDITION

Report Reference No: 25022508/nms/ch2m/NM2GB/NM6

Date of Report: 25-Feb-2025

Survey On: 11-Feb-2025 (0700hrs) to 18-Feb-2025 (0700hrs)

Operating Condition of Site: All operations were under normal conditions during the noise survey. Construction activities have not begun during period of noise monitoring.

Noise survey was conducted using accepted standard procedures and appropriate sound measuring equipment, which is properly calibrated to ensure accuracy.

All noise measurements were made in terms of A-weighted equivalent continuous sound pressure level in LAeq,T over a period of time T. For example, LAeq,5min are the equivalent sound pressure level measured over a 5-minutes time.

Noise survey was conducted for a full continuous twenty-four (24) hours, Seven (7) days, for **One (1) monitoring points/location**. The noise levels emitted were monitored accordingly and recorded.

The survey is conducted by qualified noise monitoring personnel and reference to Appendix C for their certificate.

3.0 INSTRUMENTS

Monitoring instrument was positioned at between 1.8 meters to 3 meters in height from the floor (Ground Level), Mid Level (5 – 6 storey building height) Or High Level (Roof Level). Overall noise distribution was fairly homogenous throughout the duration of noise survey.

Sound Level Meter used complies and conform to the minimum requirements of a Type 1/Class 1 instrument specified in the International Electrotechnical Commission (IEC) publications of 60651 and 60804.

Before and after the noise measurements, the sound level meter is calibrated to verify the accuracy of the instrument.

3.1 Sound Level Meters

CIRRUS RESEARCH plc, Model: CR191SG
Class 1 Data Logging Sound Level Meter
Serial Number: **G066470**

3.2 Acoustic Calibrator

CIRRUS RESEARCH plc, Model: CR515
Acoustic Calibrator
Serial Number: **60614**

Acoustic Pressure level:	94.01 dB	(reference 20uPa)
Step +20dB:	113.93 dB	
Nominal Frequency:	992 Hz	

The calibration certificate of the monitoring instrument can be found in Appendix D

4.0 NOISE SURVEY TERMS

- 4.1 A Weighting
A standard weighting of the audible frequencies designed to reflect the response of the human ear to noise.
- 4.2 Acoustic Calibrator
An instrument that provides a reference noise source that is used to calibrate and check the performance of a Sound Level Meter.
- 4.3 Broadband
Noise Measurements using parameters, which include all the audible noise
- 4.4 dB(A)
Decibels A Weighted
- 4.5 Decibel (dB)
The units of sound level and noise exposure measurement
- 4.6 Fast Time Weighting
A standard time weighting applied by the Sound Level Meter
- 4.7 IEC 60651:1979
The International Standard for Sound Level Meters
- 4.8 IEC 60804:1984
The International Standard for Integrating & Integrating-Averaging Sound Level Meters
- 4.9 IEC 61260:1995
The International Standard for 1:1 Octave & 1:3 Octave Band Filters
- 4.10 IEC 61672-1:2003
The International Standard for Sound Level Meter and Integrating Averaging Sound Level Meters that replaces both IEC 60651 and IEC 60804
- 4.11 Integrating Averaging Sound Level Meter
A Sound Level Meter which accumulates the total sound energy over a measurement period and calculates an average
- 4.12 LAeq,t
Equivalent continuous sound pressure level. A measure of the average sound pressure level during a period of time, t, in dB with 'A' weighting.
- 4.13 Sound Level
Sound Pressure Level with a Frequency weighting, such as dB(A)
- 4.14 Sound Level Meter
An instrument for measuring various noise parameters
- 4.15 Sound Pressure Level, SPL.
The basic measure of noise loudness, expressed in decibels

5.0 SURVEYING LOCATIONS

To carry out One (1) monitoring points/locations for continuous twenty-four (24) hours, Seven (7) days noise monitoring at the boundary of proposed construction site. (Refer to Appendix A for instrument layout plan)

Possible noise contribution source and occurrence:

NOISE MONITORING LOCATION	NOISE SOURCE	OCCURRENCE
Point 6 :Front of S P JAIN SCHOOL OF GLOBAL MANAGEMENT, 10 HYDERABAD RD 	Vehicle Traffic	Medium - Vehicle Traffic along Alexandra Road

a

Note: The above-mentioned noise sources may be limited and there are possible other noise sources not detected during the time of our site survey. For example, possible noise sources can be from occasional aircraft noise, or other activities nearby to the monitoring points.

6.0 NOISE SURVEY RESULTS

The noise survey was carried out in accordance with the Environmental Pollution Control Act (Chapter 94A, Section 77(1)), Environmental Pollution Control (Control of Noise at Construction Sites) Regulations, 1999.

Monday to Saturday

Types of Affected Building	Maximum Noise Level Permitted for construction sites (reckoned as an equivalent continuous noise level over a period of 5 minutes) in decibel (A)		
	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospitals, Schools, Institutions of Higher Learning, Homes for aged, Sick, etc	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	60 (LEQ 12hr)	50 (LEQ 12hr)	
(b) Residential Buildings Located less than 150m from the construction site where noise is being emitted	90 (Leq 5min)	70 (Leq 5min)	55 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 1hr)	55 (LEQ 1hr)
(c) Buildings (other than those in Paragraphs (a) and (b) above	90 (Leq 5min)	70 (Leq 5min)	70 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 12hr)	

Sunday and Public Holidays

Types of Affected Building	Maximum Noise Level Permitted for construction sites (reckoned as an equivalent continuous noise level over a period of 5 minutes) in decibel (A)		
	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospitals, Schools, Institutions of Higher Learning, Homes for aged, Sick, etc	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	60 (LEQ 12hr)	50 (LEQ 12hr)	
(b) Residential Buildings Located less than 150m from the construction site where noise is being emitted	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	75 (LEQ 12hr)	-	-
(c) Buildings (other than those in Paragraphs (a) and (b) above	90 (Leq 5min)	70 (Leq 5min)	70 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 12hr)	

Note:

No Work Rule on Sundays and Public Holidays

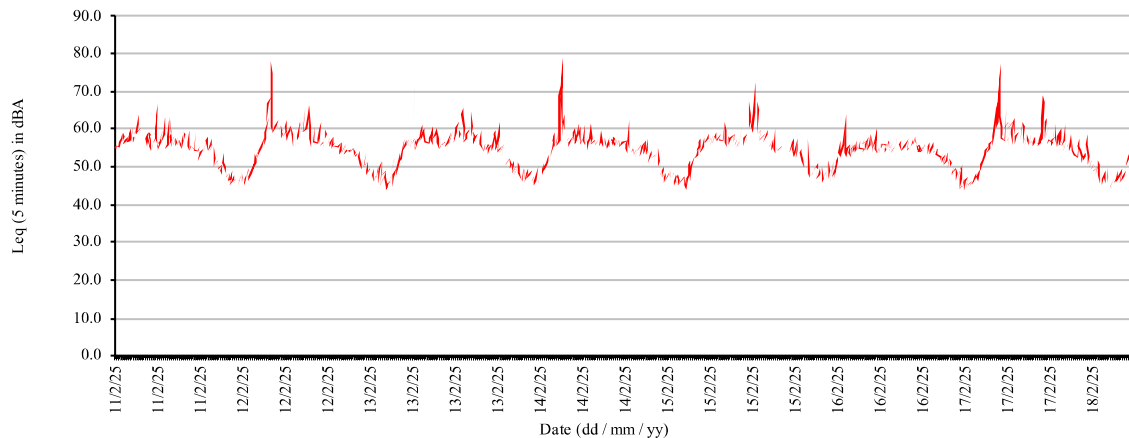
In addition to the settings of the permissible noise limits, NEA has also implemented a rule on prohibition of work on Sundays and Public Holidays (PH) for construction sites located within 150m away from residential premises and noise sensitive premises as follows:

Site Established from 1 September 2011. No work is allowed from 10.00pm on Sat/eve of PH to 7.00am on the following Mon/day after the PH. (For details, please refer to Appendix B)

Survey Results for monitoring point 1 from period : 11-Feb-2025 to 18-Feb-2025

Location : NM6 (Front of S P JAIN SCHOOL OF

Leq (5 Minutes) Plotted Against Date of Monitoring



Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 5 min in Leq db(A)	Maximum Noise Level permitted for construction sites Leq 5min db (A)
No. NM-6		From		To			
NM6 (Front of S P JAIN SCHOOL OF GLOBAL MANAGEMENT)	Tue	11/2/25	0700	11/2/25	1900	66.5	75
	Tue	11/2/25	1900	11/2/25	2200	59.8	55
	Tue/Wed	11/2/25	2200	12/2/25	0700	58.3	55
	Wed	12/2/25	0700	12/2/25	1900	78.2	75
	Wed	12/2/25	1900	12/2/25	2200	57.5	55
	Wed/Thu	12/2/25	2200	13/2/25	0700	57.8	55
	Thu	13/2/25	0700	13/2/25	1900	71.0	75
	Thu	13/2/25	1900	13/2/25	2200	59.8	55
	Thu/Fri	13/2/25	2200	14/2/25	0700	62.1	55
	Fri	14/2/25	0700	14/2/25	1900	78.9	75
	Fri	14/2/25	1900	14/2/25	2200	62.3	55
	Fri/Sat	14/2/25	2200	15/2/25	0700	57.6	55
	Sat	15/2/25	0700	15/2/25	1900	72.2	75
	Sat	15/2/25	1900	15/2/25	2200	60.0	55
	Sat/Sun	15/2/25	2200	16/2/25	0700	57.8	55
	Sun	16/2/25	0700	16/2/25	1900	63.9	75
	Sun	16/2/25	1900	16/2/25	2200	56.7	55
	Sun/Mon	16/2/25	2200	17/2/25	0700	55.8	55
	Mon	17/2/25	0700	17/2/25	1900	77.2	75
	Mon	17/2/25	1900	17/2/25	2200	61.4	55
	Mon/Tue	17/2/25	2200	18/2/25	0700	58.6	55

Table 6.1 Summary of Noise Monitoring Results at Maximum Equivalent of LEQ 5 min

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 1 hr in Leq db(A) for the specific period	Maximum Noise Level permitted for construction sites Leq 1 hr db (A)
No. NM-6		From		To			
NM6 (Front of S P JAIN SCHOOL OF GLOBAL MANAGEMENT)	Tue	11/2/25	1900	11/2/25	2200	55.5	-
	Tue	11/2/25	2200	12/2/25	0700	56.0	-
	Wed	12/2/25	1900	12/2/25	2200	55.6	-
	Wed	12/2/25	2200	13/2/25	0700	54.5	-
	Thu	13/2/25	1900	13/2/25	2200	56.7	-
	Thu	13/2/25	2200	14/2/25	0700	56.2	-
	Fri	14/2/25	1900	14/2/25	2200	57.0	-
	Fri	14/2/25	2200	15/2/25	0700	54.7	-
	Sat	15/2/25	1900	15/2/25	2200	55.9	-
	Sat	15/2/25	2200	16/2/25	0700	54.7	-
	Sun	16/2/25	1900	16/2/25	2200	54.9	-
	Sun	16/2/25	2200	17/2/25	0700	54.2	-
	Mon	17/2/25	1900	17/2/25	2200	56.9	-
	Mon	17/2/25	2200	18/2/25	0700	53.7	-

Table 6.2 Summary of Noise Monitoring Results at Maximum Equivalent of LEQ 1 hr

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 12 hr in Leq db(A)	Maximum Noise Level permitted for construction sites Leq 12 hr db (A)
No. NM-6		From		To			
NM6 (Front of S P JAIN SCHOOL OF GLOBAL MANAGEMENT)	Tue	11/2/25	0700	11/2/25	1900	58.1	60
	Tue	11/2/25	1900	12/2/25	0700	52.5	50
	Wed	12/2/25	0700	12/2/25	1900	62.4	60
	Wed	12/2/25	1900	13/2/25	0700	52.4	50
	Thu	13/2/25	0700	13/2/25	1900	58.9	60
	Thu	13/2/25	1900	14/2/25	0700	53.1	50
	Fri	14/2/25	0700	14/2/25	1900	61.4	60
	Fri	14/2/25	1900	15/2/25	0700	52.7	50
	Sat	15/2/25	0700	15/2/25	1900	59.9	60
	Sat	15/2/25	1900	16/2/25	0700	53.1	50
	Sun	16/2/25	0700	16/2/25	1900	55.9	60
	Sun	16/2/25	1900	16/2/25	0700	52.1	50
	Mon	16/2/25	0700	17/2/25	1900	61.1	60
	Mon	17/2/25	1900	18/2/25	0700	52.6	50

Table 6.3 Summary of Noise Monitoring Results at LEQ 12 hr

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over specific period in Leq db(A)	Maximum Noise Level permitted for construction sites in db (A)
No. NM-6		From		To			
NM6 (Front of S P JAIN SCHOOL OF GLOBAL MANAGEMENT)	Tue	11/2/25	700	11/2/25	1900	58.1	75 (Leq5min) 60 (Leq12hrs)
	Tue	11/2/25	1900	11/2/25	2200	55.0	55 (Leq5min)
	Tue	11/2/25	2200	12/2/25	0000	54.7	55 (Leq5min)
	Wed	12/2/25	0000	12/2/25	700	49.5	55 (Leq5min)
	Wed	12/2/25	700	12/2/25	1900	62.4	75 (Leq5min) 60 (Leq12hrs)
	Wed	12/2/25	1900	12/2/25	2200	54.9	55 (Leq5min)
	Wed	12/2/25	2200	13/2/25	0000	53.2	55 (Leq5min)
	Thu	13/2/25	0000	13/2/25	700	50.4	55 (Leq5min)
	Thu	13/2/25	700	13/2/25	1900	58.9	75 (Leq5min) 60 (Leq12hrs)
	Thu	13/2/25	1900	13/2/25	2200	56.1	55 (Leq5min)
	Thu	13/2/25	2200	14/2/25	0000	54.6	55 (Leq5min)
	Fri	14/2/25	0000	14/2/25	700	49.7	55 (Leq5min)
	Fri	14/2/25	700	14/2/25	1900	61.4	75 (Leq5min) 60 (Leq12hrs)
	Fri	14/2/25	1900	14/2/25	2200	55.5	55 (Leq5min)
	Fri	14/2/25	2200	15/2/25	0000	54.1	55 (Leq5min)
	Sat	15/2/25	0000	15/2/25	700	49.7	55 (Leq5min)
	Sat	15/2/25	700	15/2/25	1900	59.9	75 (Leq5min) 60 (Leq12hrs)
	Sat	15/2/25	1900	15/2/25	2200	55.3	55 (Leq5min)
	Sat	15/2/25	2200	16/2/25	0000	54.6	55 (Leq5min)
	Sun	16/2/25	0000	16/2/25	700	50.7	55 (Leq5min)
	Sun	16/2/25	700	16/2/25	1900	55.9	75 (Leq5min) 60 (Leq12hrs)
	Sun	16/2/25	1900	16/2/25	2200	54.7	55 (Leq5min)
	Sun	16/2/25	2200	17/2/25	0000	53.0	55 (Leq5min)
	Mon	17/2/25	0000	17/2/25	700	49.8	55 (Leq5min)
	Mon	17/2/25	700	17/2/25	1900	61.1	75 (Leq5min) 60 (Leq12hrs)
	Mon	17/2/25	1900	17/2/25	2200	55.6	55 (Leq5min)
	Mon	17/2/25	2200	17/2/25	0000	53.3	55 (Leq5min)
	Tue	18/2/25	0000	18/2/25	0700	49.7	55 (Leq5min)

Table 6.4 Summary of Noise Monitoring Results at Continuous Equivalent of LEQ for specific period

7.0 SUMMARY

The purpose of this survey was to assess the current acoustical environment to establish the background noise level generated over One (1) monitoring point/location for continuous twenty-four (24) hours and seven (7) days noise monitoring at the boundary of the project site for Project Title

Baseline Noise Survey @ NM6 EIA Gillman Barracks

The location of the nearest Noise Receiver (NSR) : **NM6 (Front of S P JAIN SCHOOL OF GLOBAL MANAGEMENT)**

The findings show that,

The ambience noise at NSR NM6 Front of S P JAIN SCHOOL OF GLOBAL MANAGEMENT

The Leq 5min exceeds the NEA noise limit (75dBa) for the period 0700hrs to 1900hrs on weekdays and Weekend.

The Leq 5min exceeds the NEA noise limit (55dBa) for the period 1900hrs to 0700hrs on weekdays and Weekend.

On both weekdays, the Leq12hr for period from 0700hrs to 1900hrs and 1900hrs to 0700hrs, exceeds the noise limit of 60dBa and 50dBa respectively.

* Refer to Appendix E for full noise data report.

We recommend submitting an appeal to NEA to adjust the Noise Limit as in table 6.5 for NSRNM6 Front of S P JAIN SCHOOL OF GLOBAL MANAGEMENT

Background Noise Correction Factor

The adjusted value for the maximum noise level shall be obtained by adding the correction factor corresponding to the difference between the maximum permitted level and the background noise level, set out in the Table below, to the higher of the 2 noise levels.

Difference between 2 noise levels in decibels (A)	Correction factor in decibels (A)
a) Below 2	3
b) 2 to less than 4	2
c) 4 to less than 10	1
d) 10 and above	NIL

Proposed New Permissible Noise Level for monitoring point: **NM6 (Front of S P JAIN SCHOOL OF**

Period	Noise Limit	*Equivalent continuous sound level over period in Leq dB(A) - Background Noise	Difference	Correction Factor	Proposed Adjusted New Permissible Level (dBA)
7am to 7pm (Monday to Saturday)	75 (Leq 5min)	62.4	12.6	0	75 (Leq 5min)
	60 (Leq 12hr)	62.4	-2.4	2	64.4 (Leq 12hr)
7pm to 10pm (Monday to Saturday)	55 (Leq 5min)	56.1	-1.1	3	59.1 (Leq 5min)
10pm to 12am (Monday to Saturday)	55 (Leq 5min)	54.7	0.3	3	58 (Leq 5min)
12am to 7am (Monday to Saturday)	55 (Leq 5min)	50.4	4.6	1	56 (Leq 5min)
7pm to 7am (Monday to Saturday)	50 (Leq 12hrs)	53.1	-3.1	2	55.1 (Leq 12hr)
7am to 7pm (Sunday)	75 (Leq 5min)	55.9	19.1	0	75 (Leq 5min)
	60 (Leq 12hr)	55.9	4.1	1	61 (Leq 12hr)
7pm to 10pm (Sunday)	55 (Leq 5min)	54.7	0.3	3	58 (Leq 5min)
10pm to 12am (Sunday)	55 (Leq 5min)	53.0	2.0	2	57 (Leq 5min)
12am to 7am (Sunday)	55 (Leq 5min)	50.7	4.3	1	56 (Leq 5min)
7pm to 7am (Sunday)	50 (Leq 12hrs)	52.1	-2.1	2	54.1 (Leq 12hr)

* The highest equivalent continuous sound level in Leq dB(A) between Monday to Saturday is taken for calculating the adjusted new permissible level for each period.

Table 6.5 Proposed New Permissible Noise Level

8.0 CONFIRMATION

We, ENSSCOM PTE LTD, certify that the information given is correct. The noise survey was conducted for

CH2M HILL Singapore Pte Ltd
150 Beach Road, Gateway West 34th Floor, Singapore 189720

To carry out One (1) monitoring points/locations for continuous twenty-four (24) hours and seven (7) days noise monitoring at the boundary of the project site for Project Title

Baseline Noise Survey @ NM6 EIA Gillman Barracks

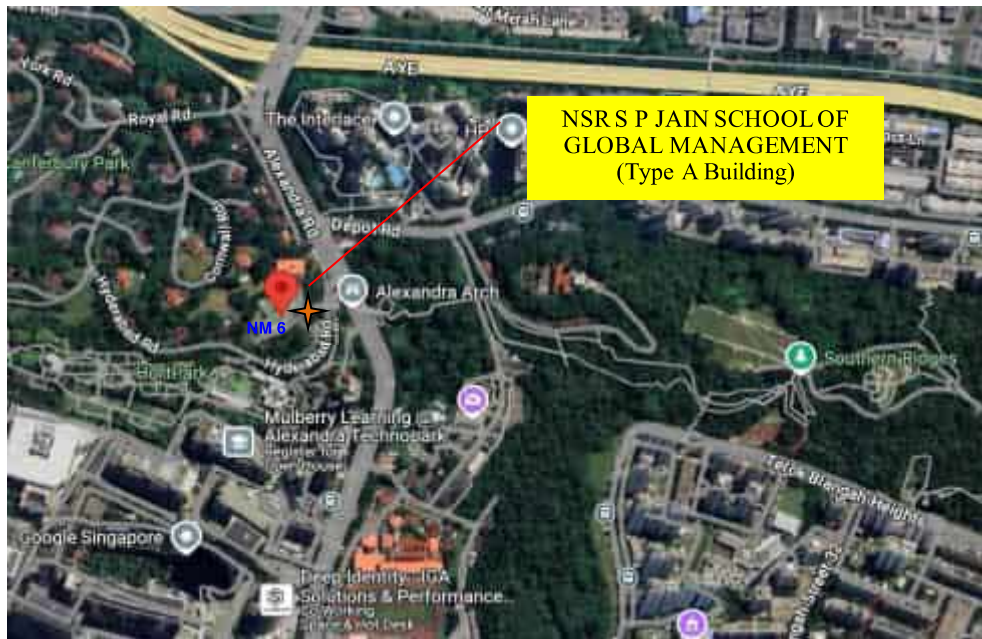
was carried out as described in this report and the results resented herein.

Date of Monitoring:

From 11/2/25 (0700hrs) to 18/2/25 (0700hrs)

Hoo Hian Choon (Mr)
Noise Monitoring Consultant
25-Feb-2025

APPENDIX A : INSTRUMENT LAYOUT PLAN



APPENDIX B: NEA CONSTRUCTION NOISE CONTROL GUIDELINE

Construction Noise Control

Maximum Permissible Noise Levels for Construction Work Commenced on or after 1st October 2007

Noise Regulation

Mondays to Saturdays

Types of affected buildings	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospital, schools, institutions of higher learning, homes for aged sick, etc.	60 dBA (Leq* 12 hrs)	50 dBA (Leq 12 hrs)	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(b) Residential buildings located less than 150m from the construction site	75 dBA (Leq 12 hrs)	65 dBA (Leq 1 hr)	55 dBA (Leq 1 hr)
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)
(c) Buildings other than those in (a) and (b) above	75 dBA (Leq 12 hrs)	65 dBA (Leq 12 hrs)	
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	

Sundays and Public Holidays

Types of affected buildings	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospital, schools, institutions of higher learning, homes for aged sick, etc.	60 dBA (Leq* 12 hrs)	50 dBA (Leq 12 hrs)	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(b) Residential buildings located less than 150m from the construction site	75 dBA (Leq 12 hrs)	-	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(c) Buildings other than those in (a) and (b) above	75 dBA (Leq 12 hrs)	65 dBA (Leq 12 hrs)	
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	

APPENDIX C: NOISE MONITORING OFFICER CERTIFICATES

S/No: 02/20/159



Acoustical Laboratory Pte Ltd
CENTRE FOR ENVIRONMENTAL CONSULTATION AND TRAINING

Certificate of Competence

This is to certify that

Hoo Hian Choon

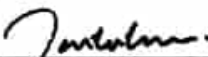
has attended and passed an examination
for a course on

Noise Monitoring

held between 22nd May 2002 and 24th May 2002

Acoustical Laboratory is approved by the Ministry of
Labour as a Training Centre for the
Noise Monitoring Course




Tan Kok Yang
Course Co-ordinator


Koh L. B.
Managing Director



This is to certify that

Hoo Hian Choon

has successfully completed the 2½-day course

Industrial Noise Control

A handwritten signature in black ink, reading "Seah Ben Han".

Seah Ben Han
Director
Centre for Continuing Education

27 August 2010

APPENDIX D: INSTRUMENT CALIBRATION CERTIFICATES



Certificate of Calibration

Equipment Details

Instrument Manufacturer	Cirrus Research plc
Instrument Type	CR 191 SG
Description	Sound Level Meter
Serial Number	6366479

Calibration Procedure

The instrument details above have been calibrated to the publish test and certification data as detailed in the instrument time book, using the techniques recommended in the latest revisions of the International Standards IEC 61672-1:2013, IEC 61673-1:2004, IEC 60651:1978, IEC 60664: 2001, IEC 61260:1995, IEC 60912:2003, IEC 60942:1997, IEC 61252:1993, ANSI S1.4-1984, ANSI S1.11-1986 and ANSI S1.43-1997 where applicable. Sound Level Meters. All Calibration procedures were carried out by substituting the microphone capsule with a suitable electrical signal, apart from the Test acoustic calibration.

Calibration Traceability

The instrument details above was calibrated against the calibration laboratory standards held by Cirrus Research plc. These are traceable to International Standards (ISO 9001). The standards are:

Multi Acoustic Calibration	H.A.K 4425	Serial Number	30-1143	Calibration Ref.	0225821030684543
Microphone Type	Mks 227	Serial Number	3-4655B	Calibration Ref.	209003

Calibrated by

Calibration Date

24 January 2025

Calibration Certificate Number

258913

This Calibration Certificate is valid for 12 months from the date above.

Cirrus Research plc, Acoustic House, Drillington Road, Thimbleby, North Yorkshire, YO14 3PH
Telephone: +44 (0) 1725 891655 Fax: +44 (0) 1725 891762
Email: sales@cirrus-research.co.uk

CERTIFICATE OF CALIBRATION

ISSUED BY: Cirrus Research plc
DATE OF ISSUE: 03 January 2025 CERTIFICATE NUMBER: 229571



Cirrus Research plc
Acoustic House
Bridlington Road
Hunmanby
North Yorkshire
YO14 0PH
United Kingdom

Page 1 of 2

Approved signatory
A. Windress
Electronically signed:

Sound Calibrator : IEC 60942:2003

Instrument information

Manufacturer: Cirrus Research plc
Model: CR.515
Serial number: 60614
Class: 1

Notes:

Test summary

Date of calibration: 03 January 2025

The sound calibrator detailed above has been calibrated to the published data as described in the operating manual and in the half-inch configuration. The procedures and techniques used are as described in IEC60942_2003 Annex B – Periodic Tests and three determinations of the sound pressure level, frequency and total distortion were made.

The sound pressure level was measured using a W52F condenser microphone type MK224 manufactured by Cirrus Research plc.

The results have been corrected to the reference pressure of 101.33 kPa using the manufacturer's data.

As public evidence was available, from a testing organisation responsible for approving the results of pattern evaluation tests, to demonstrate that the model of sound calibrator fully conformed to the requirements for pattern evaluation described in Annex A of IEC 60942:2003, the sound calibrator tested is considered to conform to all the Class 1 requirements of IEC 60942:2003.

The manufacturer's product information indicates that this model of sound calibrator has been formally pattern approved to IEC60942_2003 Annex A to Class 1. This has been confirmed by Laboratoire National d'Essais (LNE), Physikalisch-Technische Bundesanstalt (PTB) and APPLUS (APPLUS).

Notes:

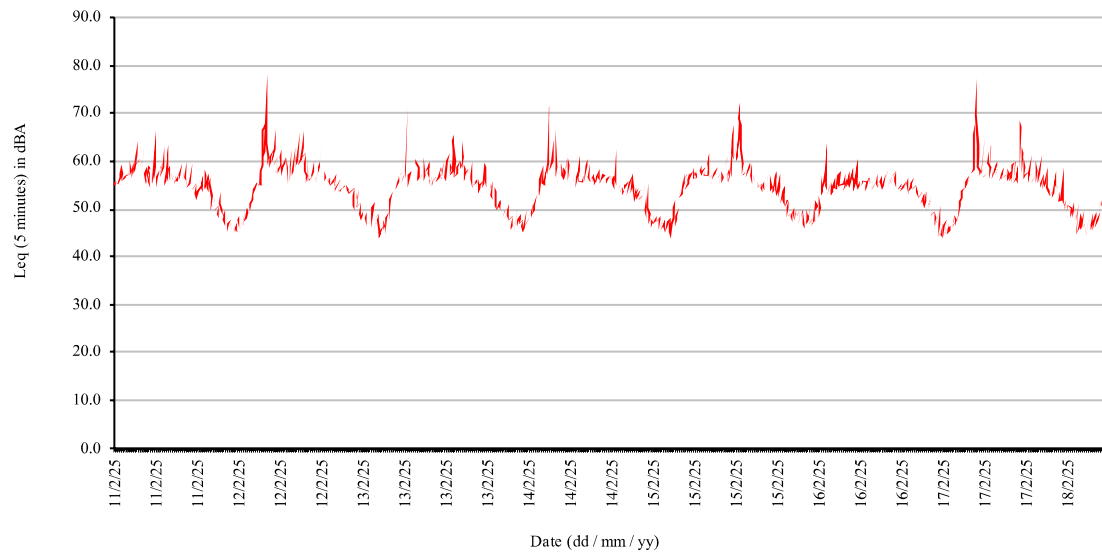
This certificate provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory. The results within this certificate relate only to the items calibrated. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%.

APPENDIX E

CONSTRUCTION SITE NOISE MONITORING DATA AND CHART

NAME OF COMPANY	CH2M HILL Singapore Pte Ltd		
SITE LOCATION	NM6 EIA Gillman Barracks		
REPORT REFERENCE	11/02/2025 - 18/02/2025		
MODE	Environment	FREQUENCY WEIGHTING	A

Leq (5 Minutes) Plotted Against Date of Monitoring



NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM6 EIA Gillman Barracks								
REPORT REFERENCE			11/02/2025 - 18/02/2025								
Start	11/2/25		7:05	Leq12h		58.1		Weighting		A	
End	11/2/25		19:00								
Date	Time	Leq5m		Date	Time	Leq5m		Date	Time	Leq5m	
11/2/25	7:05	54.8		11/2/25	11:05	58.6		11/2/25	15:05	58.9	
11/2/25	7:10	55.6		11/2/25	11:10	58.9		11/2/25	15:10	63.1	
11/2/25	7:15	55.9		11/2/25	11:15	58.1		11/2/25	15:15	62.5	
11/2/25	7:20	55.4		11/2/25	11:20	58.9		11/2/25	15:20	56.2	
11/2/25	7:25	55.3		11/2/25	11:25	61.5		11/2/25	15:25	59.3	
11/2/25	7:30	55.5		11/2/25	11:30	58.6		11/2/25	15:30	55.0	
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11/2/25	7:50	55.5		11/2/25	11:50	62.6		11/2/25	15:50	58.3	
11/2/25	7:55	56.6		11/2/25	11:55	62.0		11/2/25	15:55	63.3	
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11/2/25	8:05	57.4		11/2/25	12:05	58.4		11/2/25	16:05	55.9	
11/2/25	8:10	59.0		11/2/25	12:10	58.2		11/2/25	16:10	59.0	
11/2/25	8:15	59.3		11/2/25	12:15	57.6		11/2/25	16:15	58.3	
11/2/25	8:20	57.3		11/2/25	12:20	55.3		11/2/25	16:20	55.5	
11/2/25	8:25	58.0		11/2/25	12:25	59.0		11/2/25	16:25	58.3	
11/2/25	8:30	55.8		11/2/25	12:30	59.6		11/2/25	16:30	55.9	
11/2/25	8:35	56.3		11/2/25	12:35	54.8		11/2/25	16:35	57.5	
11/2/25	8:40	56.6		11/2/25	12:40	58.8		11/2/25	16:40	56.8	
11/2/25	8:45	56.0		11/2/25	12:45	55.8		11/2/25	16:45	57.0	
11/2/25	8:50	57.0		11/2/25	12:50	57.9		11/2/25	16:50	56.0	
11/2/25	8:55	57.4		11/2/25	12:55	55.6		11/2/25	16:55	57.4	
11/2/25	9:00	57.5		11/2/25	13:00	56.1		11/2/25	17:00	56.4	
11/2/25	9:05	57.9		11/2/25	13:05	55.6		11/2/25	17:05	56.2	
11/2/25	9:10	56.7		11/2/25	13:10	54.3		11/2/25	17:10	55.5	
11/2/25	9:15	57.9		11/2/25	13:15	54.8		11/2/25	17:15	57.5	
11/2/25	9:20	56.9		11/2/25	13:20	57.5		11/2/25	17:20	57.0	
11/2/25	9:25	57.6		11/2/25	13:25	55.2		11/2/25	17:25	55.9	
11/2/25	9:30	60.0	11/2/25	13:30	57.1	11/2/25	17:30	57.1			
11/2/25	9:35	58.0	11/2/25	13:35	55.9	11/2/25	17:35	56.7			
11/2/25	9:40	57.2	11/2/25	13:40	56.7	11/2/25	17:40	57.4			
11/2/25	9:45	60.0	11/2/25	13:45	57.1	11/2/25	17:45	56.8			
11/2/25	9:50	58.1	11/2/25	13:50	66.5	11/2/25	17:50	55.7			
11/2/25	9:55	60.6	11/2/25	13:55	58.5	11/2/25	17:55	55.4			
11/2/25	10:00	56.5	11/2/25	14:00	56.0	11/2/25	18:00	55.1			
11/2/25	10:05	58.1	11/2/25	14:05	57.3	11/2/25	18:05	57.1			
11/2/25	10:10	58.5	11/2/25	14:10	56.5	11/2/25	18:10	59.4			
11/2/25	10:15	59.4	11/2/25	14:15	54.5	11/2/25	18:15	58.8			
11/2/25	10:20	59.6	11/2/25	14:20	56.5	11/2/25	18:20	56.8			
11/2/25	10:25	57.6	11/2/25	14:25	56.8	11/2/25	18:25	56.1			
11/2/25	10:30	57.0	11/2/25	14:30	58.3	11/2/25	18:30	58.7			
11/2/25	10:35	58.4	11/2/25	14:35	56.9	11/2/25	18:35	56.1			
11/2/25	10:40	58.2	11/2/25	14:40	57.1	11/2/25	18:40	57.6			
11/2/25	10:45	61.3	11/2/25	14:45	59.5	11/2/25	18:45	57.2			
11/2/25	10:50	64.1	11/2/25	14:50	59.3	11/2/25	18:50	57.5			
11/2/25	10:55	59.2	11/2/25	14:55	56.5	11/2/25	18:55	55.5			
11/2/25	11:00	60.2	11/2/25	15:00	57.0	11/2/25	19:00	59.8			

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd									
SITE LOCATION				NM6 EIA Gillman Barracks									
REPORT REFERENCE				11/02/2025 - 18/02/2025									
Start	11/2/25			19:05	Leq12h		52.5		Weighting			A	
End	12/2/25			7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h		
11/2/25	19:05	56.7	55.5	11/2/25	23:05	56.7	52.7	12/2/25	3:05	48.1	46.7		
11/2/25	19:10	55.6		11/2/25	23:10	54.4		12/2/25	3:10	44.9			
11/2/25	19:15	56.0		11/2/25	23:15	55.4		12/2/25	3:15	46.7			
11/2/25	19:20	55.5		11/2/25	23:20	52.3		12/2/25	3:20	47.0			
11/2/25	19:25	55.1		11/2/25	23:25	51.5		12/2/25	3:25	45.3			
11/2/25	19:30	54.6		11/2/25	23:30	52.8		12/2/25	3:30	47.2			
11/2/25	19:35	55.2		11/2/25	23:35	50.0		12/2/25	3:35	45.8			
11/2/25	19:40	55.0		11/2/25	23:40	50.3		12/2/25	3:40	45.8			
11/2/25	19:45	55.9		11/2/25	23:45	50.3		12/2/25	3:45	45.1			
11/2/25	19:50	55.5		11/2/25	23:50	50.1		12/2/25	3:50	46.4			
11/2/25	19:55	55.1	54.9	11/2/25	23:55	51.7	50.5	12/2/25	3:55	48.5	47.1		
11/2/25	20:00	55.1		11/2/25	0:00	49.6		12/2/25	4:00	47.6			
11/2/25	20:05	59.4		12/2/25	0:05	50.6		12/2/25	4:05	47.1			
11/2/25	20:10	55.3		12/2/25	0:10	50.7		12/2/25	4:10	45.8			
11/2/25	20:15	54.2		12/2/25	0:15	49.6		12/2/25	4:15	46.8			
11/2/25	20:20	54.3		12/2/25	0:20	50.0		12/2/25	4:20	45.0			
11/2/25	20:25	54.3		12/2/25	0:25	50.3		12/2/25	4:25	47.8			
11/2/25	20:30	54.2		12/2/25	0:30	50.6		12/2/25	4:30	45.9			
11/2/25	20:35	54.2		12/2/25	0:35	49.0		12/2/25	4:35	46.1			
11/2/25	20:40	54.2		12/2/25	0:40	48.1		12/2/25	4:40	46.1			
11/2/25	20:45	55.2	54.5	12/2/25	0:45	53.8	48.4	12/2/25	4:45	48.8	48.9		
11/2/25	20:50	53.0		12/2/25	0:50	47.8		12/2/25	4:50	47.0			
11/2/25	20:55	51.8		12/2/25	0:55	51.2		12/2/25	4:55	49.7			
11/2/25	21:00	53.8		12/2/25	1:00	50.6		12/2/25	5:00	46.4			
11/2/25	21:05	53.6		12/2/25	1:05	50.0		12/2/25	5:05	47.3			
11/2/25	21:10	53.5		12/2/25	1:10	48.4		12/2/25	5:10	47.1			
11/2/25	21:15	53.8		12/2/25	1:15	50.0		12/2/25	5:15	46.8			
11/2/25	21:20	54.7		12/2/25	1:20	48.5		12/2/25	5:20	47.1			
11/2/25	21:25	53.6		12/2/25	1:25	49.9		12/2/25	5:25	48.2			
11/2/25	21:30	53.2		12/2/25	1:30	47.5		12/2/25	5:30	48.2			
11/2/25	21:35	55.0	56.0	12/2/25	1:35	47.7	47.0	12/2/25	5:35	48.3	53.4		
11/2/25	21:40	54.9		12/2/25	1:40	48.3		12/2/25	5:40	50.2			
11/2/25	21:45	56.8		12/2/25	1:45	46.5		12/2/25	5:45	50.9			
11/2/25	21:50	54.4		12/2/25	1:50	46.6		12/2/25	5:50	49.1			
11/2/25	21:55	54.6		12/2/25	1:55	48.2		12/2/25	5:55	49.3			
11/2/25	22:00	55.0		12/2/25	2:00	46.9		12/2/25	6:00	51.0			
11/2/25	22:05	53.8		12/2/25	2:05	46.8		12/2/25	6:05	51.5			
11/2/25	22:10	58.3		12/2/25	2:10	48.8		12/2/25	6:10	51.7			
11/2/25	22:15	57.1		12/2/25	2:15	45.2		12/2/25	6:15	53.5			
11/2/25	22:20	56.4		12/2/25	2:20	46.9		12/2/25	6:20	54.4			
11/2/25	22:25	54.2	56.0	12/2/25	2:25	47.7	47.0	12/2/25	6:25	52.1			
11/2/25	22:30	54.5		12/2/25	2:30	47.4		12/2/25	6:30	52.0			
11/2/25	22:35	54.8		12/2/25	2:35	45.5		12/2/25	6:35	53.0			
11/2/25	22:40	56.1		12/2/25	2:40	46.8		12/2/25	6:40	54.1			
11/2/25	22:45	57.6		12/2/25	2:45	46.5		12/2/25	6:45	53.9			
11/2/25	22:50	57.4		12/2/25	2:50	47.2		12/2/25	6:50	53.6			
11/2/25	22:55	54.5		12/2/25	2:55	45.6		12/2/25	6:55	53.8			
11/2/25	23:00	53.6		12/2/25	3:00	48.4		12/2/25	7:00	55.5			

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM6 EIA Gillman Barracks						
REPORT REFERENCE			11/02/2025 - 18/02/2025						
Start	12/2/25	7:05	Leq12h	62.4			Weighting		A
End	12/2/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m		Date	Time	Leq5m
12/2/25	7:05	54.8	12/2/25	11:05	62.4		12/2/25	15:05	61.5
12/2/25	7:10	54.9	12/2/25	11:10	56.6		12/2/25	15:10	59.4
12/2/25	7:15	54.8	12/2/25	11:15	60.6		12/2/25	15:15	57.7
12/2/25	7:20	55.2	12/2/25	11:20	60.8		12/2/25	15:20	57.9
12/2/25	7:25	54.7	12/2/25	11:25	56.8		12/2/25	15:25	58.0
12/2/25	7:30	55.0	12/2/25	11:30	58.7		12/2/25	15:30	57.1
12/2/25	7:35	57.6	12/2/25	11:35	59.0		12/2/25	15:35	55.3
12/2/25	7:40	56.1	12/2/25	11:40	59.7		12/2/25	15:40	60.7
12/2/25	7:45	55.4	12/2/25	11:45	59.4		12/2/25	15:45	61.2
12/2/25	7:50	57.7	12/2/25	11:50	60.0		12/2/25	15:50	56.5
12/2/25	7:55	59.2	12/2/25	11:55	60.7		12/2/25	15:55	57.0
12/2/25	8:00	63.1	12/2/25	12:00	58.5		12/2/25	16:00	55.7
12/2/25	8:05	61.5	12/2/25	12:05	56.7		12/2/25	16:05	56.9
12/2/25	8:10	66.5	12/2/25	12:10	58.7		12/2/25	16:10	55.9
12/2/25	8:15	67.2	12/2/25	12:15	58.9		12/2/25	16:15	57.2
12/2/25	8:20	68.2	12/2/25	12:20	55.3		12/2/25	16:20	56.3
12/2/25	8:25	60.6	12/2/25	12:25	57.9		12/2/25	16:25	56.0
12/2/25	8:30	62.0	12/2/25	12:30	57.2		12/2/25	16:30	57.7
12/2/25	8:35	78.2	12/2/25	12:35	59.2		12/2/25	16:35	60.0
12/2/25	8:40	74.8	12/2/25	12:40	55.6		12/2/25	16:40	56.1
12/2/25	8:45	69.3	12/2/25	12:45	56.7		12/2/25	16:45	61.8
12/2/25	8:50	63.8	12/2/25	12:50	62.3		12/2/25	16:50	56.8
12/2/25	8:55	61.0	12/2/25	12:55	56.3		12/2/25	16:55	55.3
12/2/25	9:00	60.0	12/2/25	13:00	63.8		12/2/25	17:00	56.5
12/2/25	9:05	59.1	12/2/25	13:05	57.0		12/2/25	17:05	55.9
12/2/25	9:10	59.9	12/2/25	13:10	56.6		12/2/25	17:10	56.1
12/2/25	9:15	58.8	12/2/25	13:15	57.9		12/2/25	17:15	55.8
12/2/25	9:20	59.1	12/2/25	13:20	62.8		12/2/25	17:20	55.2
12/2/25	9:25	59.8	12/2/25	13:25	58.9		12/2/25	17:25	55.2
12/2/25	9:30	60.7	12/2/25	13:30	62.7		12/2/25	17:30	56.0
12/2/25	9:35	60.9	12/2/25	13:35	61.8		12/2/25	17:35	59.8
12/2/25	9:40	62.4	12/2/25	13:40	59.2		12/2/25	17:40	58.8
12/2/25	9:45	61.4	12/2/25	13:45	59.8		12/2/25	17:45	57.6
12/2/25	9:50	59.5	12/2/25	13:50	58.9		12/2/25	17:50	56.9
12/2/25	9:55	62.6	12/2/25	13:55	59.7		12/2/25	17:55	56.8
12/2/25	10:00	66.7	12/2/25	14:00	59.2		12/2/25	18:00	57.4
12/2/25	10:05	61.1	12/2/25	14:05	59.6		12/2/25	18:05	63.8
12/2/25	10:10	59.0	12/2/25	14:10	65.8		12/2/25	18:10	55.3
12/2/25	10:15	61.0	12/2/25	14:15	59.0		12/2/25	18:15	57.8
12/2/25	10:20	58.5	12/2/25	14:20	59.4		12/2/25	18:20	56.8
12/2/25	10:25	60.3	12/2/25	14:25	59.1		12/2/25	18:25	55.5
12/2/25	10:30	57.6	12/2/25	14:30	59.5		12/2/25	18:30	55.6
12/2/25	10:35	59.8	12/2/25	14:35	60.5		12/2/25	18:35	56.6
12/2/25	10:40	57.4	12/2/25	14:40	60.7		12/2/25	18:40	55.8
12/2/25	10:45	59.2	12/2/25	14:45	63.0		12/2/25	18:45	58.1
12/2/25	10:50	58.2	12/2/25	14:50	66.2		12/2/25	18:50	55.9
12/2/25	10:55	58.4	12/2/25	14:55	66.5		12/2/25	18:55	55.8
12/2/25	11:00	59.6	12/2/25	15:00	60.8		12/2/25	19:00	55.1

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd										
SITE LOCATION			NM6 EIA Gillman Barracks										
REPORT REFERENCE			11/02/2025 - 18/02/2025										
Start	12/2/25	19:05		Leq12h	52.4			Weighting		A			
End	13/2/25	7:00											
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h		
12/2/25	19:05	55.4	55.6	12/2/25	23:05	53.4	52.4	13/2/25	3:05	47.6	47.3		
12/2/25	19:10	56.6		12/2/25	23:10	52.8		13/2/25	3:10	46.1			
12/2/25	19:15	55.6		12/2/25	23:15	54.4		13/2/25	3:15	49.4			
12/2/25	19:20	55.7		12/2/25	23:20	52.7		13/2/25	3:20	47.9			
12/2/25	19:25	55.4		12/2/25	23:25	53.2		13/2/25	3:25	48.3			
12/2/25	19:30	55.8		12/2/25	23:30	50.8		13/2/25	3:30	48.8			
12/2/25	19:35	54.8		12/2/25	23:35	51.1		13/2/25	3:35	48.7			
12/2/25	19:40	55.4		12/2/25	23:40	51.0		13/2/25	3:40	47.6			
12/2/25	19:45	55.4		12/2/25	23:45	51.2		13/2/25	3:45	44.6			
12/2/25	19:50	55.9		12/2/25	23:50	49.7		13/2/25	3:50	44.9			
12/2/25	19:55	56.2		12/2/25	23:55	53.5		13/2/25	3:55	43.9			
12/2/25	20:00	55.2		55.6	12/2/25	0:00		52.1	52.4	13/2/25		4:00	45.2
12/2/25	20:05	56.4	54.8	13/2/25	0:05	51.5	50.4	13/2/25	4:05	45.0	47.9		
12/2/25	20:10	54.3		13/2/25	0:10	53.9		13/2/25	4:10	46.4			
12/2/25	20:15	53.4		13/2/25	0:15	50.3		13/2/25	4:15	45.3			
12/2/25	20:20	53.1		13/2/25	0:20	50.3		13/2/25	4:20	47.5			
12/2/25	20:25	57.5		13/2/25	0:25	50.6		13/2/25	4:25	46.6			
12/2/25	20:30	54.0		13/2/25	0:30	51.4		13/2/25	4:30	45.7			
12/2/25	20:35	54.5		13/2/25	0:35	49.1		13/2/25	4:35	48.9			
12/2/25	20:40	54.0		13/2/25	0:40	47.7		13/2/25	4:40	48.0			
12/2/25	20:45	54.4		13/2/25	0:45	48.4		13/2/25	4:45	52.1			
12/2/25	20:50	53.9		13/2/25	0:50	49.4		13/2/25	4:50	49.6			
12/2/25	20:55	56.0		13/2/25	0:55	48.9		13/2/25	4:55	44.9			
12/2/25	21:00	53.4		54.8	13/2/25	1:00		49.8	50.4	13/2/25		5:00	48.1
12/2/25	21:05	53.6	54.2	13/2/25	1:05	48.7	47.9	13/2/25	5:05	49.4	50.7		
12/2/25	21:10	53.3		13/2/25	1:10	49.4		13/2/25	5:10	47.2			
12/2/25	21:15	53.6		13/2/25	1:15	48.2		13/2/25	5:15	49.2			
12/2/25	21:20	54.4		13/2/25	1:20	46.1		13/2/25	5:20	51.7			
12/2/25	21:25	53.7		13/2/25	1:25	46.5		13/2/25	5:25	47.7			
12/2/25	21:30	54.2		13/2/25	1:30	49.4		13/2/25	5:30	49.5			
12/2/25	21:35	54.8		13/2/25	1:35	47.9		13/2/25	5:35	50.1			
12/2/25	21:40	54.9		13/2/25	1:40	47.7		13/2/25	5:40	48.9			
12/2/25	21:45	55.0		13/2/25	1:45	48.5		13/2/25	5:45	51.8			
12/2/25	21:50	53.9		13/2/25	1:50	47.7		13/2/25	5:50	53.7			
12/2/25	21:55	53.7		13/2/25	1:55	46.3		13/2/25	5:55	53.0			
12/2/25	22:00	54.5		54.2	13/2/25	2:00		46.6	47.9	13/2/25		6:00	51.0
12/2/25	22:05	54.5	53.8	13/2/25	2:05	48.9	48.7	13/2/25	6:05	51.4	54.5		
12/2/25	22:10	54.7		13/2/25	2:10	46.8		13/2/25	6:10	51.0			
12/2/25	22:15	54.3		13/2/25	2:15	47.3		13/2/25	6:15	52.2			
12/2/25	22:20	54.1		13/2/25	2:20	49.8		13/2/25	6:20	51.6			
12/2/25	22:25	54.3		13/2/25	2:25	46.0		13/2/25	6:25	57.8			
12/2/25	22:30	54.0		13/2/25	2:30	46.5		13/2/25	6:30	54.2			
12/2/25	22:35	53.0		13/2/25	2:35	49.3		13/2/25	6:35	53.8			
12/2/25	22:40	53.0		13/2/25	2:40	50.3		13/2/25	6:40	54.5			
12/2/25	22:45	53.5		13/2/25	2:45	51.5		13/2/25	6:45	53.8			
12/2/25	22:50	53.8		13/2/25	2:50	48.8		13/2/25	6:50	55.7			
12/2/25	22:55	53.7		13/2/25	2:55	49.7		13/2/25	6:55	55.4			
12/2/25	23:00	52.6		53.8	13/2/25	3:00		45.2	48.7	13/2/25		7:00	56.8

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM6 EIA Gillman Barracks						
REPORT REFERENCE			11/02/2025 - 18/02/2025						
Start	13/2/25	7:05	Leq12h		58.9	Weighting			A
End	13/2/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m	
13/2/25	7:05	56.0	13/2/25	11:05	58.6	13/2/25	15:05	59.2	
13/2/25	7:10	56.7	13/2/25	11:10	60.8	13/2/25	15:10	58.4	
13/2/25	7:15	57.3	13/2/25	11:15	60.5	13/2/25	15:15	59.1	
13/2/25	7:20	57.5	13/2/25	11:20	57.1	13/2/25	15:20	60.0	
13/2/25	7:25	57.0	13/2/25	11:25	55.8	13/2/25	15:25	61.6	
13/2/25	7:30	56.4	13/2/25	11:30	59.7	13/2/25	15:30	61.7	
13/2/25	7:35	55.6	13/2/25	11:35	57.8	13/2/25	15:35	61.4	
13/2/25	7:40	62.1	13/2/25	11:40	58.1	13/2/25	15:40	59.6	
13/2/25	7:45	55.5	13/2/25	11:45	57.8	13/2/25	15:45	58.8	
13/2/25	7:50	57.4	13/2/25	11:50	57.7	13/2/25	15:50	57.8	
13/2/25	7:55	56.4	13/2/25	11:55	58.8	13/2/25	15:55	58.0	
13/2/25	8:00	56.7	13/2/25	12:00	60.0	13/2/25	16:00	56.9	
13/2/25	8:05	57.8	13/2/25	12:05	57.5	13/2/25	16:05	57.7	
13/2/25	8:10	57.4	13/2/25	12:10	57.1	13/2/25	16:10	65.6	
13/2/25	8:15	56.1	13/2/25	12:15	56.9	13/2/25	16:15	65.0	
13/2/25	8:20	71.0	13/2/25	12:20	56.3	13/2/25	16:20	64.0	
13/2/25	8:25	56.6	13/2/25	12:25	56.1	13/2/25	16:25	60.1	
13/2/25	8:30	56.6	13/2/25	12:30	55.0	13/2/25	16:30	59.4	
13/2/25	8:35	57.6	13/2/25	12:35	56.5	13/2/25	16:35	57.5	
13/2/25	8:40	54.4	13/2/25	12:40	54.8	13/2/25	16:40	56.7	
13/2/25	8:45	57.2	13/2/25	12:45	55.6	13/2/25	16:45	56.8	
13/2/25	8:50	58.0	13/2/25	12:50	56.7	13/2/25	16:50	57.4	
13/2/25	8:55	56.8	13/2/25	12:55	55.3	13/2/25	16:55	57.5	
13/2/25	9:00	57.2	13/2/25	13:00	54.8	13/2/25	17:00	58.8	
13/2/25	9:05	58.0	13/2/25	13:05	56.7	13/2/25	17:05	58.1	
13/2/25	9:10	58.0	13/2/25	13:10	56.0	13/2/25	17:10	58.2	
13/2/25	9:15	56.6	13/2/25	13:15	56.7	13/2/25	17:15	59.0	
13/2/25	9:20	58.2	13/2/25	13:20	56.9	13/2/25	17:20	59.9	
13/2/25	9:25	59.5	13/2/25	13:25	56.3	13/2/25	17:25	59.3	
13/2/25	9:30	57.1	13/2/25	13:30	56.0	13/2/25	17:30	58.9	
13/2/25	9:35	61.5	13/2/25	13:35	55.8	13/2/25	17:35	58.2	
13/2/25	9:40	58.1	13/2/25	13:40	55.5	13/2/25	17:40	64.4	
13/2/25	9:45	57.9	13/2/25	13:45	56.6	13/2/25	17:45	60.6	
13/2/25	9:50	60.3	13/2/25	13:50	56.7	13/2/25	17:50	59.0	
13/2/25	9:55	59.8	13/2/25	13:55	56.2	13/2/25	17:55	58.2	
13/2/25	10:00	59.4	13/2/25	14:00	56.0	13/2/25	18:00	59.2	
13/2/25	10:05	59.1	13/2/25	14:05	59.1	13/2/25	18:05	58.3	
13/2/25	10:10	59.6	13/2/25	14:10	56.2	13/2/25	18:10	55.7	
13/2/25	10:15	58.6	13/2/25	14:15	57.4	13/2/25	18:15	57.5	
13/2/25	10:20	56.7	13/2/25	14:20	56.4	13/2/25	18:20	57.0	
13/2/25	10:25	56.8	13/2/25	14:25	56.2	13/2/25	18:25	58.0	
13/2/25	10:30	55.7	13/2/25	14:30	59.9	13/2/25	18:30	57.1	
13/2/25	10:35	56.1	13/2/25	14:35	56.3	13/2/25	18:35	58.4	
13/2/25	10:40	56.9	13/2/25	14:40	62.2	13/2/25	18:40	58.0	
13/2/25	10:45	56.6	13/2/25	14:45	56.7	13/2/25	18:45	57.2	
13/2/25	10:50	57.1	13/2/25	14:50	56.6	13/2/25	18:50	58.5	
13/2/25	10:55	56.0	13/2/25	14:55	59.9	13/2/25	18:55	56.6	
13/2/25	11:00	57.6	13/2/25	15:00	55.8	13/2/25	19:00	56.5	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM6 EIA Gillman Barracks								
REPORT REFERENCE			11/02/2025 - 18/02/2025								
Start	13/2/25		19:05	Leq12h		53.1		Weighting		A	
End	14/2/25		7:00								
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
13/2/25	19:05	57.1	56.5	13/2/25	23:05	54.5	52.0	14/2/25	3:05	46.3	47.3
13/2/25	19:10	59.8		13/2/25	23:10	52.0		14/2/25	3:10	46.8	
13/2/25	19:15	56.9		13/2/25	23:15	53.5		14/2/25	3:15	47.6	
13/2/25	19:20	56.1		13/2/25	23:20	53.2		14/2/25	3:20	48.0	
13/2/25	19:25	56.3		13/2/25	23:25	52.6		14/2/25	3:25	47.9	
13/2/25	19:30	55.8		13/2/25	23:30	50.7		14/2/25	3:30	48.8	
13/2/25	19:35	56.0		13/2/25	23:35	51.1		14/2/25	3:35	47.5	
13/2/25	19:40	56.0		13/2/25	23:40	50.2		14/2/25	3:40	46.7	
13/2/25	19:45	54.3		13/2/25	23:45	50.6		14/2/25	3:45	46.2	
13/2/25	19:50	54.9		13/2/25	23:50	49.8		14/2/25	3:50	47.2	
13/2/25	19:55	56.0	55.0	13/2/25	23:55	51.1	50.1	14/2/25	3:55	47.6	47.4
13/2/25	20:00	55.6		13/2/25	0:00	52.1		14/2/25	4:00	46.4	
13/2/25	20:05	54.9		14/2/25	0:05	51.8		14/2/25	4:05	45.0	
13/2/25	20:10	55.9		14/2/25	0:10	50.7		14/2/25	4:10	45.8	
13/2/25	20:15	56.2		14/2/25	0:15	50.6		14/2/25	4:15	46.4	
13/2/25	20:20	54.4		14/2/25	0:20	49.6		14/2/25	4:20	46.6	
13/2/25	20:25	56.0		14/2/25	0:25	51.8		14/2/25	4:25	49.8	
13/2/25	20:30	54.5		14/2/25	0:30	50.8		14/2/25	4:30	50.4	
13/2/25	20:35	53.3		14/2/25	0:35	49.8		14/2/25	4:35	46.6	
13/2/25	20:40	54.7		14/2/25	0:40	48.2		14/2/25	4:40	47.0	
13/2/25	20:45	54.6	56.7	14/2/25	0:45	50.0	49.1	14/2/25	4:45	46.0	50.3
13/2/25	20:50	55.0		14/2/25	0:50	48.7		14/2/25	4:50	48.0	
13/2/25	20:55	54.3		14/2/25	0:55	49.4		14/2/25	4:55	47.0	
13/2/25	21:00	55.7		14/2/25	1:00	48.0		14/2/25	5:00	47.2	
13/2/25	21:05	55.8		14/2/25	1:05	49.8		14/2/25	5:05	46.4	
13/2/25	21:10	54.5		14/2/25	1:10	48.4		14/2/25	5:10	55.0	
13/2/25	21:15	55.5		14/2/25	1:15	48.8		14/2/25	5:15	48.2	
13/2/25	21:20	55.4		14/2/25	1:20	50.9		14/2/25	5:20	49.3	
13/2/25	21:25	55.6		14/2/25	1:25	50.7		14/2/25	5:25	47.9	
13/2/25	21:30	59.5		14/2/25	1:30	49.8		14/2/25	5:30	48.8	
13/2/25	21:35	59.5	56.2	14/2/25	1:35	48.4	47.5	14/2/25	5:35	51.1	53.1
13/2/25	21:40	58.5		14/2/25	1:40	48.0		14/2/25	5:40	48.7	
13/2/25	21:45	56.0		14/2/25	1:45	48.2		14/2/25	5:45	49.9	
13/2/25	21:50	55.6		14/2/25	1:50	47.7		14/2/25	5:50	49.9	
13/2/25	21:55	54.5		14/2/25	1:55	48.1		14/2/25	5:55	50.5	
13/2/25	22:00	54.8		14/2/25	2:00	48.4		14/2/25	6:00	50.8	
13/2/25	22:05	58.2		14/2/25	2:05	46.4		14/2/25	6:05	51.0	
13/2/25	22:10	53.8		14/2/25	2:10	46.6		14/2/25	6:10	52.6	
13/2/25	22:15	62.1		14/2/25	2:15	45.7		14/2/25	6:15	51.2	
13/2/25	22:20	54.3		14/2/25	2:20	49.3		14/2/25	6:20	53.2	
13/2/25	22:25	55.2	14/2/25	2:25	48.3	14/2/25		6:25	52.7		
13/2/25	22:30	55.2	14/2/25	2:30	45.6	14/2/25		6:30	51.6		
13/2/25	22:35	55.3	14/2/25	2:35	47.1	14/2/25		6:35	54.0		
13/2/25	22:40	53.9	14/2/25	2:40	45.5	14/2/25		6:40	54.1		
13/2/25	22:45	55.9	14/2/25	2:45	48.4	14/2/25		6:45	52.8		
13/2/25	22:50	52.8	14/2/25	2:50	47.7	14/2/25		6:50	53.9		
13/2/25	22:55	52.0	14/2/25	2:55	49.6	14/2/25		6:55	55.1		
13/2/25	23:00	53.4	56.2	14/2/25	3:00	46.6		47.5	14/2/25	7:00	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM6 EIA Gillman Barracks						
REPORT REFERENCE			11/02/2025 - 18/02/2025						
Start	14/2/25	7:05	Leq12h		61.4	Weighting			A
End	14/2/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m	
14/2/25	7:05	56.2	14/2/25	11:05	57.6	14/2/25	15:05	59.6	
14/2/25	7:10	59.1	14/2/25	11:10	58.5	14/2/25	15:10	56.7	
14/2/25	7:15	55.2	14/2/25	11:15	58.8	14/2/25	15:15	56.5	
14/2/25	7:20	57.0	14/2/25	11:20	61.4	14/2/25	15:20	56.7	
14/2/25	7:25	55.6	14/2/25	11:25	57.8	14/2/25	15:25	55.9	
14/2/25	7:30	54.8	14/2/25	11:30	60.8	14/2/25	15:30	56.4	
14/2/25	7:35	55.6	14/2/25	11:35	60.7	14/2/25	15:35	56.0	
14/2/25	7:40	55.0	14/2/25	11:40	59.0	14/2/25	15:40	55.6	
14/2/25	7:45	55.9	14/2/25	11:45	55.9	14/2/25	15:45	57.4	
14/2/25	7:50	59.1	14/2/25	11:50	57.5	14/2/25	15:50	57.2	
14/2/25	7:55	56.3	14/2/25	11:55	56.7	14/2/25	15:55	56.6	
14/2/25	8:00	55.6	14/2/25	12:00	56.2	14/2/25	16:00	56.5	
14/2/25	8:05	57.0	14/2/25	12:05	57.0	14/2/25	16:05	55.8	
14/2/25	8:10	59.5	14/2/25	12:10	61.4	14/2/25	16:10	55.0	
14/2/25	8:15	65.2	14/2/25	12:15	57.3	14/2/25	16:15	55.8	
14/2/25	8:20	68.8	14/2/25	12:20	58.8	14/2/25	16:20	56.0	
14/2/25	8:25	71.5	14/2/25	12:25	56.8	14/2/25	16:25	57.4	
14/2/25	8:30	69.2	14/2/25	12:30	57.0	14/2/25	16:30	57.1	
14/2/25	8:35	78.9	14/2/25	12:35	55.7	14/2/25	16:35	55.4	
14/2/25	8:40	68.0	14/2/25	12:40	56.2	14/2/25	16:40	56.6	
14/2/25	8:45	57.9	14/2/25	12:45	55.5	14/2/25	16:45	57.0	
14/2/25	8:50	60.1	14/2/25	12:50	59.2	14/2/25	16:50	58.1	
14/2/25	8:55	64.0	14/2/25	12:55	54.4	14/2/25	16:55	56.5	
14/2/25	9:00	61.6	14/2/25	13:00	56.7	14/2/25	17:00	56.0	
14/2/25	9:05	59.9	14/2/25	13:05	55.8	14/2/25	17:05	56.6	
14/2/25	9:10	58.6	14/2/25	13:10	56.7	14/2/25	17:10	55.7	
14/2/25	9:15	62.0	14/2/25	13:15	56.5	14/2/25	17:15	57.5	
14/2/25	9:20	58.3	14/2/25	13:20	57.7	14/2/25	17:20	55.3	
14/2/25	9:25	66.8	14/2/25	13:25	61.3	14/2/25	17:25	56.8	
14/2/25	9:30	58.6	14/2/25	13:30	57.4	14/2/25	17:30	56.1	
14/2/25	9:35	56.6	14/2/25	13:35	55.7	14/2/25	17:35	55.6	
14/2/25	9:40	57.4	14/2/25	13:40	55.6	14/2/25	17:40	56.7	
14/2/25	9:45	57.9	14/2/25	13:45	56.1	14/2/25	17:45	56.9	
14/2/25	9:50	57.9	14/2/25	13:50	55.2	14/2/25	17:50	55.7	
14/2/25	9:55	55.4	14/2/25	13:55	56.2	14/2/25	17:55	56.3	
14/2/25	10:00	56.7	14/2/25	14:00	55.6	14/2/25	18:00	57.0	
14/2/25	10:05	55.7	14/2/25	14:05	56.9	14/2/25	18:05	56.6	
14/2/25	10:10	58.2	14/2/25	14:10	57.2	14/2/25	18:10	57.4	
14/2/25	10:15	57.0	14/2/25	14:15	56.0	14/2/25	18:15	55.2	
14/2/25	10:20	60.0	14/2/25	14:20	55.7	14/2/25	18:20	56.1	
14/2/25	10:25	57.0	14/2/25	14:25	55.8	14/2/25	18:25	56.1	
14/2/25	10:30	59.4	14/2/25	14:30	57.4	14/2/25	18:30	56.4	
14/2/25	10:35	60.1	14/2/25	14:35	55.3	14/2/25	18:35	57.2	
14/2/25	10:40	59.8	14/2/25	14:40	59.1	14/2/25	18:40	56.3	
14/2/25	10:45	57.0	14/2/25	14:45	57.4	14/2/25	18:45	56.3	
14/2/25	10:50	57.0	14/2/25	14:50	60.4	14/2/25	18:50	56.8	
14/2/25	10:55	56.0	14/2/25	14:55	55.3	14/2/25	18:55	56.0	
14/2/25	11:00	57.6	14/2/25	15:00	55.7	14/2/25	19:00	56.1	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM6 EIA Gillman Barracks								
REPORT REFERENCE			11/02/2025 - 18/02/2025								
Start	14/2/25		19:05	Leq12h		52.7		Weighting		A	
End	15/2/25		7:00								
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
14/2/25	19:05	57.2	57.0	14/2/25	23:05	54.3	53.4	15/2/25	3:05	47.9	46.8
14/2/25	19:10	56.9		14/2/25	23:10	54.5		15/2/25	3:10	47.7	
14/2/25	19:15	56.0		14/2/25	23:15	53.4		15/2/25	3:15	45.4	
14/2/25	19:20	55.3		14/2/25	23:20	54.6		15/2/25	3:20	46.1	
14/2/25	19:25	54.8		14/2/25	23:25	52.0		15/2/25	3:25	47.7	
14/2/25	19:30	53.9		14/2/25	23:30	52.7		15/2/25	3:30	45.6	
14/2/25	19:35	62.3		14/2/25	23:35	53.9		15/2/25	3:35	46.1	
14/2/25	19:40	57.0		14/2/25	23:40	53.6		15/2/25	3:40	46.8	
14/2/25	19:45	56.3		14/2/25	23:45	52.0		15/2/25	3:45	47.7	
14/2/25	19:50	56.4		14/2/25	23:50	52.1		15/2/25	3:50	47.4	
14/2/25	19:55	54.9	54.2	14/2/25	23:55	52.7	52.7	15/2/25	3:55	46.2	46.3
14/2/25	20:00	55.4		14/2/25	0:00	53.3		15/2/25	4:00	45.2	
14/2/25	20:05	56.4		15/2/25	0:05	50.8		15/2/25	4:05	44.5	
14/2/25	20:10	54.0		15/2/25	0:10	53.4		15/2/25	4:10	45.6	
14/2/25	20:15	54.5		15/2/25	0:15	53.0		15/2/25	4:15	44.7	
14/2/25	20:20	53.6		15/2/25	0:20	52.3		15/2/25	4:20	45.5	
14/2/25	20:25	54.9		15/2/25	0:25	55.0		15/2/25	4:25	44.9	
14/2/25	20:30	55.2		15/2/25	0:30	54.8		15/2/25	4:30	47.3	
14/2/25	20:35	53.5		15/2/25	0:35	51.4		15/2/25	4:35	47.8	
14/2/25	20:40	54.4		15/2/25	0:40	49.8		15/2/25	4:40	47.9	
14/2/25	20:45	54.1	54.8	15/2/25	0:45	52.8	47.7	15/2/25	4:45	48.0	48.4
14/2/25	20:50	53.6		15/2/25	0:50	50.3		15/2/25	4:50	47.0	
14/2/25	20:55	52.6		15/2/25	0:55	48.1		15/2/25	4:55	45.0	
14/2/25	21:00	52.4		15/2/25	1:00	55.1		15/2/25	5:00	45.1	
14/2/25	21:05	55.5		15/2/25	1:05	47.8		15/2/25	5:05	45.1	
14/2/25	21:10	54.7		15/2/25	1:10	50.1		15/2/25	5:10	44.0	
14/2/25	21:15	54.9		15/2/25	1:15	48.8		15/2/25	5:15	44.4	
14/2/25	21:20	54.1		15/2/25	1:20	47.1		15/2/25	5:20	46.8	
14/2/25	21:25	54.9		15/2/25	1:25	48.0		15/2/25	5:25	47.4	
14/2/25	21:30	55.7		15/2/25	1:30	46.7		15/2/25	5:30	48.0	
14/2/25	21:35	55.2	54.7	15/2/25	1:35	48.2	48.2	15/2/25	5:35	50.4	52.7
14/2/25	21:40	52.9		15/2/25	1:40	47.4		15/2/25	5:40	51.8	
14/2/25	21:45	55.4		15/2/25	1:45	46.0		15/2/25	5:45	51.5	
14/2/25	21:50	54.0		15/2/25	1:50	47.3		15/2/25	5:50	46.4	
14/2/25	21:55	53.7		15/2/25	1:55	46.2		15/2/25	5:55	47.5	
14/2/25	22:00	55.4		15/2/25	2:00	46.8		15/2/25	6:00	48.5	
14/2/25	22:05	54.9		15/2/25	2:05	46.4		15/2/25	6:05	50.1	
14/2/25	22:10	56.9		15/2/25	2:10	49.1		15/2/25	6:10	49.7	
14/2/25	22:15	55.0		15/2/25	2:15	46.8		15/2/25	6:15	49.4	
14/2/25	22:20	54.1		15/2/25	2:20	47.5		15/2/25	6:20	53.0	
14/2/25	22:25	53.1	54.7	15/2/25	2:25	48.6		15/2/25	6:25	49.9	
14/2/25	22:30	57.6		15/2/25	2:30	47.0		15/2/25	6:30	53.8	
14/2/25	22:35	54.3		15/2/25	2:35	46.8		15/2/25	6:35	54.4	
14/2/25	22:40	54.5		15/2/25	2:40	46.3		15/2/25	6:40	52.4	
14/2/25	22:45	53.4		15/2/25	2:45	52.6		15/2/25	6:45	52.5	
14/2/25	22:50	54.5		15/2/25	2:50	47.1		15/2/25	6:50	52.8	
14/2/25	22:55	51.3		15/2/25	2:55	47.2		15/2/25	6:55	53.2	
14/2/25	23:00	52.8		15/2/25	3:00	48.7		15/2/25	7:00	55.6	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM6 EIA Gillman Barracks						
REPORT REFERENCE			11/02/2025 - 18/02/2025						
Start	15/2/25	7:05	Leq12h		59.9	Weighting			A
End	15/2/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m	
15/2/25	7:05	54.1	15/2/25	11:05	56.5	15/2/25	15:05	59.5	
15/2/25	7:10	55.4	15/2/25	11:10	57.0	15/2/25	15:10	56.5	
15/2/25	7:15	54.9	15/2/25	11:15	56.9	15/2/25	15:15	57.2	
15/2/25	7:20	57.6	15/2/25	11:20	57.0	15/2/25	15:20	67.4	
15/2/25	7:25	56.7	15/2/25	11:25	61.6	15/2/25	15:25	67.0	
15/2/25	7:30	57.3	15/2/25	11:30	59.5	15/2/25	15:30	64.0	
15/2/25	7:35	54.0	15/2/25	11:35	56.7	15/2/25	15:35	61.8	
15/2/25	7:40	54.6	15/2/25	11:40	55.8	15/2/25	15:40	60.4	
15/2/25	7:45	54.4	15/2/25	11:45	57.1	15/2/25	15:45	59.8	
15/2/25	7:50	55.4	15/2/25	11:50	57.3	15/2/25	15:50	60.1	
15/2/25	7:55	56.1	15/2/25	11:55	55.3	15/2/25	15:55	59.9	
15/2/25	8:00	56.0	15/2/25	12:00	58.2	15/2/25	16:00	64.2	
15/2/25	8:05	57.6	15/2/25	12:05	57.9	15/2/25	16:05	60.6	
15/2/25	8:10	56.9	15/2/25	12:10	56.0	15/2/25	16:10	60.0	
15/2/25	8:15	56.3	15/2/25	12:15	56.0	15/2/25	16:15	59.4	
15/2/25	8:20	56.5	15/2/25	12:20	56.3	15/2/25	16:20	64.6	
15/2/25	8:25	57.2	15/2/25	12:25	57.5	15/2/25	16:25	72.2	
15/2/25	8:30	57.4	15/2/25	12:30	57.6	15/2/25	16:30	67.8	
15/2/25	8:35	57.8	15/2/25	12:35	57.1	15/2/25	16:35	68.9	
15/2/25	8:40	57.0	15/2/25	12:40	56.8	15/2/25	16:40	67.5	
15/2/25	8:45	58.7	15/2/25	12:45	57.0	15/2/25	16:45	66.6	
15/2/25	8:50	57.2	15/2/25	12:50	58.9	15/2/25	16:50	65.0	
15/2/25	8:55	56.7	15/2/25	12:55	56.3	15/2/25	16:55	62.4	
15/2/25	9:00	56.1	15/2/25	13:00	57.1	15/2/25	17:00	59.6	
15/2/25	9:05	57.5	15/2/25	13:05	57.6	15/2/25	17:05	58.5	
15/2/25	9:10	58.1	15/2/25	13:10	56.1	15/2/25	17:10	59.0	
15/2/25	9:15	56.2	15/2/25	13:15	55.4	15/2/25	17:15	59.7	
15/2/25	9:20	57.9	15/2/25	13:20	57.1	15/2/25	17:20	57.2	
15/2/25	9:25	57.7	15/2/25	13:25	57.8	15/2/25	17:25	56.5	
15/2/25	9:30	57.6	15/2/25	13:30	55.4	15/2/25	17:30	57.8	
15/2/25	9:35	57.6	15/2/25	13:35	55.4	15/2/25	17:35	57.2	
15/2/25	9:40	57.8	15/2/25	13:40	55.7	15/2/25	17:40	57.0	
15/2/25	9:45	56.5	15/2/25	13:45	56.6	15/2/25	17:45	56.4	
15/2/25	9:50	59.0	15/2/25	13:50	55.3	15/2/25	17:50	58.4	
15/2/25	9:55	57.9	15/2/25	13:55	55.2	15/2/25	17:55	58.0	
15/2/25	10:00	57.5	15/2/25	14:00	54.7	15/2/25	18:00	56.4	
15/2/25	10:05	58.1	15/2/25	14:05	55.2	15/2/25	18:05	56.1	
15/2/25	10:10	56.9	15/2/25	14:10	62.7	15/2/25	18:10	56.1	
15/2/25	10:15	57.8	15/2/25	14:15	58.7	15/2/25	18:15	58.6	
15/2/25	10:20	57.4	15/2/25	14:20	60.9	15/2/25	18:20	59.4	
15/2/25	10:25	57.5	15/2/25	14:25	56.6	15/2/25	18:25	59.9	
15/2/25	10:30	58.5	15/2/25	14:30	60.8	15/2/25	18:30	57.8	
15/2/25	10:35	57.0	15/2/25	14:35	57.6	15/2/25	18:35	59.7	
15/2/25	10:40	57.6	15/2/25	14:40	55.6	15/2/25	18:40	57.1	
15/2/25	10:45	57.2	15/2/25	14:45	57.5	15/2/25	18:45	56.7	
15/2/25	10:50	57.2	15/2/25	14:50	58.5	15/2/25	18:50	55.5	
15/2/25	10:55	57.2	15/2/25	14:55	55.3	15/2/25	18:55	55.7	
15/2/25	11:00	56.9	15/2/25	15:00	56.4	15/2/25	19:00	57.2	

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd										
SITE LOCATION				NM6 EIA Gillman Barracks										
REPORT REFERENCE				11/02/2025 - 18/02/2025										
Start	15/2/25			19:05	Leq12h			53.1		Weighting			A	
End	16/2/25			7:00										
Date	Time	Leq5m	Leq1h		Date	Time	Leq5m	Leq1h		Date	Time	Leq5m	Leq1h	
15/2/25	19:05	55.6	55.9		15/2/25	23:05	54.1	54.4		16/2/25	3:05	49.4	49.0	
15/2/25	19:10	57.4			15/2/25	23:10	57.5			16/2/25	3:10	48.2		
15/2/25	19:15	55.4			15/2/25	23:15	54.5			16/2/25	3:15	49.9		
15/2/25	19:20	54.6			15/2/25	23:20	54.0			16/2/25	3:20	50.1		
15/2/25	19:25	55.0			15/2/25	23:25	52.3			16/2/25	3:25	50.2		
15/2/25	19:30	60.0			15/2/25	23:30	56.9			16/2/25	3:30	50.4		
15/2/25	19:35	54.9			15/2/25	23:35	52.1			16/2/25	3:35	46.7		
15/2/25	19:40	55.6			15/2/25	23:40	53.9			16/2/25	3:40	47.3		
15/2/25	19:45	55.4			15/2/25	23:45	53.2			16/2/25	3:45	46.0		
15/2/25	19:50	54.3			15/2/25	23:50	51.1			16/2/25	3:50	50.0		
15/2/25	19:55	54.0	54.7		15/2/25	23:55	53.4	52.1		16/2/25	3:55	49.8	48.1	
15/2/25	20:00	54.6			15/2/25	0:00	55.0			16/2/25	4:00	47.5		
15/2/25	20:05	55.5			16/2/25	0:05	53.6			16/2/25	4:05	48.4		
15/2/25	20:10	54.6			16/2/25	0:10	51.8			16/2/25	4:10	46.8		
15/2/25	20:15	54.7			16/2/25	0:15	52.1			16/2/25	4:15	48.1		
15/2/25	20:20	54.1			16/2/25	0:20	50.8			16/2/25	4:20	48.8		
15/2/25	20:25	54.1			16/2/25	0:25	51.8			16/2/25	4:25	51.6		
15/2/25	20:30	53.7			16/2/25	0:30	50.3			16/2/25	4:30	48.8		
15/2/25	20:35	54.3			16/2/25	0:35	49.7			16/2/25	4:35	46.8		
15/2/25	20:40	55.6			16/2/25	0:40	52.0			16/2/25	4:40	47.0		
15/2/25	20:45	54.7	55.3		16/2/25	0:45	50.3	48.9		16/2/25	4:45	47.9	49.8	
15/2/25	20:50	55.5			16/2/25	0:50	48.2			16/2/25	4:50	46.5		
15/2/25	20:55	55.4			16/2/25	0:55	57.4			16/2/25	4:55	46.3		
15/2/25	21:00	54.2			16/2/25	1:00	48.6			16/2/25	5:00	47.7		
15/2/25	21:05	55.4			16/2/25	1:05	48.0			16/2/25	5:05	49.6		
15/2/25	21:10	54.7			16/2/25	1:10	48.8			16/2/25	5:10	47.2		
15/2/25	21:15	53.4			16/2/25	1:15	48.9			16/2/25	5:15	52.0		
15/2/25	21:20	56.9			16/2/25	1:20	49.3			16/2/25	5:20	47.4		
15/2/25	21:25	56.5			16/2/25	1:25	48.6			16/2/25	5:25	48.0		
15/2/25	21:30	54.2			16/2/25	1:30	48.4			16/2/25	5:30	47.4		
15/2/25	21:35	55.4	54.7		16/2/25	1:35	47.4	48.6		16/2/25	5:35	49.2	54.3	
15/2/25	21:40	54.6			16/2/25	1:40	50.2			16/2/25	5:40	50.8		
15/2/25	21:45	56.9			16/2/25	1:45	49.4			16/2/25	5:45	49.3		
15/2/25	21:50	54.6			16/2/25	1:50	49.3			16/2/25	5:50	46.8		
15/2/25	21:55	53.8			16/2/25	1:55	49.5			16/2/25	5:55	51.9		
15/2/25	22:00	55.4			16/2/25	2:00	47.8			16/2/25	6:00	52.7		
15/2/25	22:05	55.8			16/2/25	2:05	48.0			16/2/25	6:05	50.1		
15/2/25	22:10	53.9			16/2/25	2:10	49.8			16/2/25	6:10	48.2		
15/2/25	22:15	53.2			16/2/25	2:15	48.4			16/2/25	6:15	48.6		
15/2/25	22:20	53.9			16/2/25	2:20	48.9			16/2/25	6:20	57.1		
15/2/25	22:25	53.6	54.7		16/2/25	2:25	48.1	48.6		16/2/25	6:25	57.1		
15/2/25	22:30	56.7			16/2/25	2:30	49.3			16/2/25	6:30	53.7		
15/2/25	22:35	57.8			16/2/25	2:35	47.4			16/2/25	6:35	52.7		
15/2/25	22:40	54.8			16/2/25	2:40	50.9			16/2/25	6:40	54.5		
15/2/25	22:45	54.7			16/2/25	2:45	46.7			16/2/25	6:45	54.5		
15/2/25	22:50	52.9			16/2/25	2:50	47.9			16/2/25	6:50	54.2		
15/2/25	22:55	52.2			16/2/25	2:55	48.0			16/2/25	6:55	55.0		
15/2/25	23:00	53.7		54.7		16/2/25	3:00		48.5	48.6		16/2/25		7:00

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd							
SITE LOCATION			NM6 EIA Gillman Barracks							
REPORT REFERENCE			11/02/2025 - 18/02/2025							
Start	16/2/25	7:05		Leq12h	55.9		Weighting		A	
End	16/2/25	19:00								
Date	Time	Leq5m		Date	Time	Leq5m		Date	Time	Leq5m
16/2/25	7:05	58.3		16/2/25	11:05	55.2		16/2/25	15:05	56.4
16/2/25	7:10	55.8		16/2/25	11:10	54.4		16/2/25	15:10	53.9
16/2/25	7:15	63.9		16/2/25	11:15	55.8		16/2/25	15:15	54.4
16/2/25	7:20	54.8		16/2/25	11:20	55.5		16/2/25	15:20	55.4
16/2/25	7:25	54.1		16/2/25	11:25	55.9		16/2/25	15:25	54.4
16/2/25	7:30	53.9		16/2/25	11:30	58.7		16/2/25	15:30	56.3
16/2/25	7:35	52.9		16/2/25	11:35	58.6		16/2/25	15:35	56.4
16/2/25	7:40	53.3		16/2/25	11:40	56.5		16/2/25	15:40	54.4
16/2/25	7:45	54.8		16/2/25	11:45	56.5		16/2/25	15:45	57.4
16/2/25	7:50	54.2		16/2/25	11:50	55.6		16/2/25	15:50	57.4
16/2/25	7:55	54.9		16/2/25	11:55	53.6		16/2/25	15:55	55.1
16/2/25	8:00	55.9		16/2/25	12:00	55.9		16/2/25	16:00	55.1
16/2/25	8:05	53.8		16/2/25	12:05	54.7		16/2/25	16:05	55.9
16/2/25	8:10	54.2		16/2/25	12:10	55.5		16/2/25	16:10	55.2
16/2/25	8:15	52.9		16/2/25	12:15	57.2		16/2/25	16:15	54.6
16/2/25	8:20	54.0		16/2/25	12:20	60.4		16/2/25	16:20	56.8
16/2/25	8:25	56.6		16/2/25	12:25	55.9		16/2/25	16:25	55.8
16/2/25	8:30	54.5		16/2/25	12:30	55.1		16/2/25	16:30	56.7
16/2/25	8:35	55.9		16/2/25	12:35	54.0		16/2/25	16:35	55.7
16/2/25	8:40	54.8		16/2/25	12:40	55.0		16/2/25	16:40	54.1
16/2/25	8:45	54.0		16/2/25	12:45	54.9		16/2/25	16:45	55.0
16/2/25	8:50	53.6		16/2/25	12:50	55.6		16/2/25	16:50	54.5
16/2/25	8:55	57.2		16/2/25	12:55	53.7		16/2/25	16:55	55.5
16/2/25	9:00	54.8		16/2/25	13:00	55.7		16/2/25	17:00	57.6
16/2/25	9:05	54.2		16/2/25	13:05	55.2		16/2/25	17:05	55.2
16/2/25	9:10	53.9		16/2/25	13:10	55.2		16/2/25	17:10	55.3
16/2/25	9:15	55.4		16/2/25	13:15	55.3		16/2/25	17:15	55.1
16/2/25	9:20	55.9		16/2/25	13:20	54.8		16/2/25	17:20	55.0
16/2/25	9:25	54.7		16/2/25	13:25	55.8		16/2/25	17:25	55.0
16/2/25	9:30	54.4		16/2/25	13:30	55.5		16/2/25	17:30	55.6
16/2/25	9:35	56.8		16/2/25	13:35	55.2		16/2/25	17:35	57.7
16/2/25	9:40	57.8		16/2/25	13:40	55.3		16/2/25	17:40	54.4
16/2/25	9:45	54.7		16/2/25	13:45	55.5		16/2/25	17:45	55.7
16/2/25	9:50	54.7		16/2/25	13:50	55.9		16/2/25	17:50	55.0
16/2/25	9:55	54.7		16/2/25	13:55	55.8		16/2/25	17:55	56.2
16/2/25	10:00	54.8		16/2/25	14:00	53.6		16/2/25	18:00	55.2
16/2/25	10:05	55.1		16/2/25	14:05	55.0		16/2/25	18:05	54.7
16/2/25	10:10	55.4		16/2/25	14:10	54.7		16/2/25	18:10	55.0
16/2/25	10:15	55.1		16/2/25	14:15	56.9		16/2/25	18:15	56.6
16/2/25	10:20	57.5	16/2/25	14:20	54.8	16/2/25	18:20	56.2		
16/2/25	10:25	53.7	16/2/25	14:25	56.3	16/2/25	18:25	55.4		
16/2/25	10:30	55.8	16/2/25	14:30	56.2	16/2/25	18:30	57.3		
16/2/25	10:35	56.7	16/2/25	14:35	55.1	16/2/25	18:35	56.4		
16/2/25	10:40	57.1	16/2/25	14:40	56.3	16/2/25	18:40	56.2		
16/2/25	10:45	54.4	16/2/25	14:45	56.6	16/2/25	18:45	58.0		
16/2/25	10:50	55.8	16/2/25	14:50	54.2	16/2/25	18:50	56.4		
16/2/25	10:55	55.7	16/2/25	14:55	57.2	16/2/25	18:55	55.6		
16/2/25	11:00	58.0	16/2/25	15:00	55.4	16/2/25	19:00	55.7		

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM6 EIA Gillman Barracks								
REPORT REFERENCE			11/02/2025 - 18/02/2025								
Start	16/2/25		19:05	Leq12h		52.1		Weighting		A	
End	17/2/25		7:00								
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
16/2/25	19:05	55.1	54.6	16/2/25	23:05	52.0	52.1	17/2/25	3:05	46.4	46.0
16/2/25	19:10	55.2		16/2/25	23:10	52.2		17/2/25	3:10	46.4	
16/2/25	19:15	54.4		16/2/25	23:15	53.6		17/2/25	3:15	46.2	
16/2/25	19:20	55.8		16/2/25	23:20	54.1		17/2/25	3:20	46.1	
16/2/25	19:25	54.0		16/2/25	23:25	51.1		17/2/25	3:25	47.5	
16/2/25	19:30	53.9		16/2/25	23:30	52.2		17/2/25	3:30	44.7	
16/2/25	19:35	54.2		16/2/25	23:35	53.2		17/2/25	3:35	47.0	
16/2/25	19:40	54.3		16/2/25	23:40	51.4		17/2/25	3:40	45.3	
16/2/25	19:45	55.0		16/2/25	23:45	50.9		17/2/25	3:45	45.4	
16/2/25	19:50	53.8		16/2/25	23:50	50.4		17/2/25	3:50	45.8	
16/2/25	19:55	55.2	54.9	16/2/25	23:55	51.6	51.1	17/2/25	3:55	44.6	46.7
16/2/25	20:00	53.7		16/2/25	0:00	51.2		17/2/25	4:00	45.5	
16/2/25	20:05	54.6		17/2/25	0:05	53.7		17/2/25	4:05	46.4	
16/2/25	20:10	54.6		17/2/25	0:10	53.2		17/2/25	4:10	45.2	
16/2/25	20:15	54.2		17/2/25	0:15	49.7		17/2/25	4:15	45.8	
16/2/25	20:20	54.4		17/2/25	0:20	50.3		17/2/25	4:20	46.2	
16/2/25	20:25	55.9		17/2/25	0:25	49.5		17/2/25	4:25	46.4	
16/2/25	20:30	55.3		17/2/25	0:30	52.0		17/2/25	4:30	45.4	
16/2/25	20:35	55.2		17/2/25	0:35	50.9		17/2/25	4:35	45.6	
16/2/25	20:40	54.0		17/2/25	0:40	49.8		17/2/25	4:40	47.1	
16/2/25	20:45	53.9	54.7	17/2/25	0:45	50.0	48.4	17/2/25	4:45	48.2	49.3
16/2/25	20:50	54.6		17/2/25	0:50	52.5		17/2/25	4:50	46.0	
16/2/25	20:55	56.5		17/2/25	0:55	47.7		17/2/25	4:55	48.5	
16/2/25	21:00	55.3		17/2/25	1:00	49.9		17/2/25	5:00	48.1	
16/2/25	21:05	53.1		17/2/25	1:05	49.6		17/2/25	5:05	47.8	
16/2/25	21:10	53.4		17/2/25	1:10	48.5		17/2/25	5:10	47.2	
16/2/25	21:15	54.9		17/2/25	1:15	48.8		17/2/25	5:15	46.3	
16/2/25	21:20	53.5		17/2/25	1:20	48.8		17/2/25	5:20	49.2	
16/2/25	21:25	54.2		17/2/25	1:25	49.5		17/2/25	5:25	47.2	
16/2/25	21:30	54.1		17/2/25	1:30	49.1		17/2/25	5:30	48.4	
16/2/25	21:35	54.4	53.7	17/2/25	1:35	48.2	46.6	17/2/25	5:35	49.9	54.2
16/2/25	21:40	54.0		17/2/25	1:40	47.3		17/2/25	5:40	50.1	
16/2/25	21:45	55.4		17/2/25	1:45	48.2		17/2/25	5:45	49.0	
16/2/25	21:50	56.5		17/2/25	1:50	46.3		17/2/25	5:50	50.6	
16/2/25	21:55	56.7		17/2/25	1:55	48.1		17/2/25	5:55	51.3	
16/2/25	22:00	54.0		17/2/25	2:00	47.4		17/2/25	6:00	50.9	
16/2/25	22:05	54.6		17/2/25	2:05	46.9		17/2/25	6:05	51.7	
16/2/25	22:10	54.3		17/2/25	2:10	47.0		17/2/25	6:10	52.4	
16/2/25	22:15	53.8		17/2/25	2:15	50.7		17/2/25	6:15	53.4	
16/2/25	22:20	54.7		17/2/25	2:20	46.7		17/2/25	6:20	54.4	
16/2/25	22:25	54.5	53.7	17/2/25	2:25	46.3	46.6	17/2/25	6:25	54.4	54.2
16/2/25	22:30	53.5		17/2/25	2:30	44.3		17/2/25	6:30	53.8	
16/2/25	22:35	53.5		17/2/25	2:35	44.8		17/2/25	6:35	54.2	
16/2/25	22:40	53.6		17/2/25	2:40	45.7		17/2/25	6:40	55.2	
16/2/25	22:45	53.2		17/2/25	2:45	44.6		17/2/25	6:45	53.9	
16/2/25	22:50	53.6		17/2/25	2:50	46.7		17/2/25	6:50	54.4	
16/2/25	22:55	52.5		17/2/25	2:55	46.8		17/2/25	6:55	54.8	
16/2/25	23:00	51.9		17/2/25	3:00	43.9		17/2/25	7:00	55.8	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM6 EIA Gillman Barracks						
REPORT REFERENCE			11/02/2025 - 18/02/2025						
Start	17/2/25	7:05	Leq12h		61.1	Weighting		A	
End	17/2/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m	
17/2/25	7:05	56.4	17/2/25	11:05	63.2	17/2/25	15:05	56.8	
17/2/25	7:10	55.9	17/2/25	11:10	62.0	17/2/25	15:10	55.3	
17/2/25	7:15	57.0	17/2/25	11:15	58.8	17/2/25	15:15	56.5	
17/2/25	7:20	55.5	17/2/25	11:20	63.2	17/2/25	15:20	59.1	
17/2/25	7:25	55.4	17/2/25	11:25	56.0	17/2/25	15:25	57.7	
17/2/25	7:30	54.7	17/2/25	11:30	58.2	17/2/25	15:30	56.0	
17/2/25	7:35	56.9	17/2/25	11:35	59.3	17/2/25	15:35	55.2	
17/2/25	7:40	55.4	17/2/25	11:40	58.9	17/2/25	15:40	57.6	
17/2/25	7:45	55.5	17/2/25	11:45	57.1	17/2/25	15:45	63.2	
17/2/25	7:50	58.2	17/2/25	11:50	59.1	17/2/25	15:50	68.6	
17/2/25	7:55	57.6	17/2/25	11:55	59.9	17/2/25	15:55	67.3	
17/2/25	8:00	57.6	17/2/25	12:00	59.9	17/2/25	16:00	62.8	
17/2/25	8:05	58.2	17/2/25	12:05	57.0	17/2/25	16:05	59.1	
17/2/25	8:10	58.4	17/2/25	12:10	59.0	17/2/25	16:10	58.2	
17/2/25	8:15	65.5	17/2/25	12:15	57.2	17/2/25	16:15	62.8	
17/2/25	8:20	67.7	17/2/25	12:20	57.9	17/2/25	16:20	61.8	
17/2/25	8:25	60.2	17/2/25	12:25	57.2	17/2/25	16:25	57.5	
17/2/25	8:30	61.7	17/2/25	12:30	61.7	17/2/25	16:30	58.0	
17/2/25	8:35	77.2	17/2/25	12:35	61.0	17/2/25	16:35	61.0	
17/2/25	8:40	69.5	17/2/25	12:40	57.6	17/2/25	16:40	58.5	
17/2/25	8:45	63.3	17/2/25	12:45	55.8	17/2/25	16:45	56.0	
17/2/25	8:50	63.2	17/2/25	12:50	57.4	17/2/25	16:50	57.1	
17/2/25	8:55	60.9	17/2/25	12:55	56.0	17/2/25	16:55	57.5	
17/2/25	9:00	58.6	17/2/25	13:00	56.5	17/2/25	17:00	57.5	
17/2/25	9:05	58.0	17/2/25	13:05	58.8	17/2/25	17:05	56.9	
17/2/25	9:10	57.8	17/2/25	13:10	56.2	17/2/25	17:10	57.5	
17/2/25	9:15	58.0	17/2/25	13:15	56.6	17/2/25	17:15	56.6	
17/2/25	9:20	57.0	17/2/25	13:20	56.2	17/2/25	17:20	57.7	
17/2/25	9:25	58.3	17/2/25	13:25	56.8	17/2/25	17:25	55.5	
17/2/25	9:30	58.3	17/2/25	13:30	56.5	17/2/25	17:30	57.3	
17/2/25	9:35	57.0	17/2/25	13:35	56.0	17/2/25	17:35	57.8	
17/2/25	9:40	57.8	17/2/25	13:40	55.8	17/2/25	17:40	58.0	
17/2/25	9:45	65.4	17/2/25	13:45	56.6	17/2/25	17:45	57.3	
17/2/25	9:50	60.4	17/2/25	13:50	58.1	17/2/25	17:50	61.2	
17/2/25	9:55	62.0	17/2/25	13:55	57.6	17/2/25	17:55	57.6	
17/2/25	10:00	56.7	17/2/25	14:00	56.4	17/2/25	18:00	57.7	
17/2/25	10:05	57.2	17/2/25	14:05	55.8	17/2/25	18:05	57.0	
17/2/25	10:10	57.6	17/2/25	14:10	57.2	17/2/25	18:10	56.8	
17/2/25	10:15	58.0	17/2/25	14:15	57.0	17/2/25	18:15	55.6	
17/2/25	10:20	56.0	17/2/25	14:20	57.9	17/2/25	18:20	57.1	
17/2/25	10:25	62.4	17/2/25	14:25	56.5	17/2/25	18:25	55.8	
17/2/25	10:30	60.4	17/2/25	14:30	55.6	17/2/25	18:30	58.0	
17/2/25	10:35	62.0	17/2/25	14:35	62.6	17/2/25	18:35	60.0	
17/2/25	10:40	59.6	17/2/25	14:40	56.7	17/2/25	18:40	57.7	
17/2/25	10:45	59.1	17/2/25	14:45	55.3	17/2/25	18:45	58.1	
17/2/25	10:50	58.6	17/2/25	14:50	59.0	17/2/25	18:50	55.3	
17/2/25	10:55	56.1	17/2/25	14:55	59.8	17/2/25	18:55	55.5	
17/2/25	11:00	60.1	17/2/25	15:00	55.8	17/2/25	19:00	56.2	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd											
SITE LOCATION			NM6 EIA Gillman Barracks											
REPORT REFERENCE			11/02/2025 - 18/02/2025											
Start	17/2/25		19:05	Leq12h		52.6		Weighting			A			
End	18/2/25		7:00											
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h			
17/2/25	19:05	57.4	56.9	17/2/25	23:05	51.7	53.1	18/2/25	3:05	46.5	47.3			
17/2/25	19:10	55.2		17/2/25	23:10	58.6		18/2/25	3:10	47.3				
17/2/25	19:15	57.0		17/2/25	23:15	56.1		18/2/25	3:15	44.7				
17/2/25	19:20	61.4		17/2/25	23:20	52.7		18/2/25	3:20	46.6				
17/2/25	19:25	55.8		17/2/25	23:25	51.7		18/2/25	3:25	48.7				
17/2/25	19:30	54.5		17/2/25	23:30	50.5		18/2/25	3:30	44.6				
17/2/25	19:35	57.6		17/2/25	23:35	51.7		18/2/25	3:35	50.5				
17/2/25	19:40	55.4		17/2/25	23:40	50.0		18/2/25	3:40	46.7				
17/2/25	19:45	55.4		17/2/25	23:45	50.0		18/2/25	3:45	48.4				
17/2/25	19:50	57.3		17/2/25	23:50	51.4		18/2/25	3:50	48.0				
17/2/25	19:55	55.2	55.3	17/2/25	23:55	51.5	50.0	18/2/25	3:55	45.5	47.4			
17/2/25	20:00	54.2		17/2/25	0:00	49.5		18/2/25	4:00	46.7				
17/2/25	20:05	56.7		18/2/25	0:05	50.7		18/2/25	4:05	46.8				
17/2/25	20:10	55.4		18/2/25	0:10	50.3		18/2/25	4:10	48.8				
17/2/25	20:15	54.4		18/2/25	0:15	50.1		18/2/25	4:15	45.7				
17/2/25	20:20	55.2		18/2/25	0:20	50.3		18/2/25	4:20	45.6				
17/2/25	20:25	55.5		18/2/25	0:25	50.3		18/2/25	4:25	45.4				
17/2/25	20:30	58.7		18/2/25	0:30	50.4		18/2/25	4:30	47.3				
17/2/25	20:35	54.6		18/2/25	0:35	49.2		18/2/25	4:35	46.7				
17/2/25	20:40	53.9		18/2/25	0:40	50.0		18/2/25	4:40	48.4				
17/2/25	20:45	53.6	54.3	18/2/25	0:45	48.1	47.9	18/2/25	4:45	45.9	49.8			
17/2/25	20:50	54.1		18/2/25	0:50	48.0		18/2/25	4:50	49.3				
17/2/25	20:55	54.2		18/2/25	0:55	51.4		18/2/25	4:55	48.4				
17/2/25	21:00	53.9		18/2/25	1:00	50.0		18/2/25	5:00	47.7				
17/2/25	21:05	54.2		18/2/25	1:05	48.0		18/2/25	5:05	47.1				
17/2/25	21:10	53.3		18/2/25	1:10	50.4		18/2/25	5:10	48.0				
17/2/25	21:15	53.3		18/2/25	1:15	47.9		18/2/25	5:15	47.3				
17/2/25	21:20	52.6		18/2/25	1:20	47.3		18/2/25	5:20	49.2				
17/2/25	21:25	54.0		18/2/25	1:25	48.5		18/2/25	5:25	47.5				
17/2/25	21:30	53.7		18/2/25	1:30	47.6		18/2/25	5:30	49.5				
17/2/25	21:35	52.5	53.4	18/2/25	1:35	45.8	47.3	18/2/25	5:35	51.4	53.7			
17/2/25	21:40	53.0		18/2/25	1:40	51.0		18/2/25	5:40	51.0				
17/2/25	21:45	57.7		18/2/25	1:45	45.4		18/2/25	5:45	51.6				
17/2/25	21:50	55.2		18/2/25	1:50	44.8		18/2/25	5:50	50.7				
17/2/25	21:55	54.7		18/2/25	1:55	46.6		18/2/25	5:55	50.6				
17/2/25	22:00	54.7		18/2/25	2:00	46.7		18/2/25	6:00	50.6				
17/2/25	22:05	54.8		18/2/25	2:05	46.9		18/2/25	6:05	51.1				
17/2/25	22:10	54.6		18/2/25	2:10	48.8		18/2/25	6:10	52.5				
17/2/25	22:15	53.7		18/2/25	2:15	47.5		18/2/25	6:15	52.0				
17/2/25	22:20	55.0		18/2/25	2:20	45.6		18/2/25	6:20	52.7				
17/2/25	22:25	54.7	18/2/25	2:25	47.4	18/2/25		6:25	52.2					
17/2/25	22:30	52.9	18/2/25	2:30	46.4	18/2/25		6:30	54.2					
17/2/25	22:35	51.3	18/2/25	2:35	49.9	18/2/25		6:35	53.8					
17/2/25	22:40	53.8	18/2/25	2:40	47.4	18/2/25		6:40	54.4					
17/2/25	22:45	52.6	18/2/25	2:45	45.6	18/2/25		6:45	54.0					
17/2/25	22:50	51.8	18/2/25	2:50	47.0	18/2/25		6:50	54.1					
17/2/25	22:55	51.3	18/2/25	2:55	46.2	18/2/25		6:55	54.2					
17/2/25	23:00	52.0	53.4	18/2/25	3:00	46.8		47.3	18/2/25	7:00		56.2	53.7	

CONFIDENTIAL

BASELINE NOISE SURVEY REPORT
NOISE MONITORING ENVIRONMENTAL WORK

REPORT REFERENCE NO: - 25021308/nms/ch2m/NM7GB/NM7

For

CH2M HILL SINGAPORE PTE LTD
150 Beach Road, Gateway West 34th Floor, Singapore 189720

Project Location:
NM7 EIA Gillman Barracks

Attention:
Ms Alicia Wong

Project Title.:
Baseline Noise Survey @ NM7 EIA Gillman Barracks

Monitoring Location:
Gillman Barracks

Date of Monitoring:
20 January 2025 - 27 January 2025

Date of Report:
13 February 2025

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	TABLE OF CONTENT	PAGE
1.0	INTRODUCTION	3
2.0	NOISE SURVEY CONDITION	3
3.0	INSTRUMENTS	4
4.0	NOISE SURVEY TERMS	5
5.0	SURVEYING LOCATIONS	6
6.0	NOISE SURVEY RESULTS	7
7.0	SUMMARY	12
8.0	CONFIRMATION	12
	APPENDIX	
	APPENDIX A: INSTRUMENT LAYOUT PLAN	13
	APPENDIX B: NEA CONSTRUCTION NOISE CONTROL GUIDELINE	14
	APPENDIX C: NOISE MONITORING OFFICER CERTIFICATES	15
	APPENDIX D: INSTRUMENT CALIBRATION CERTIFICATES	17
	APPENDIX E: NOISE DATA	19

1.0 INTRODUCTION

ENSSCOM PTE LTD was commissioned by:

CH2M HILL Singapore Pte Ltd
150 Beach Road, Gateway West 34th Floor, Singapore 189720

The purpose of this survey was to assess the current acoustical environment to establish the baseline background noise level generated before start of construction activities for
Project Title - Baseline Noise Survey @ NM7 EIA Gillman Barracks

The survey is conducted in accordance to the Construction Noise control Guideline on NEA's permissible noise levels for construction sites and industrial premises.

2.0 NOISE SURVEY CONDITION

Report Reference No: 25021308/nms/ch2m/NM7GB/NM7

Date of Report: 13-Feb-2025

Survey On: 20-Jan-2025 (0700hrs) to 27-Jan-2025 (0700hrs)

Operating Condition of Site: All operations were under normal conditions during the noise survey. Construction activities have not begun during period of noise monitoring.

Noise survey was conducted using accepted standard procedures and appropriate sound measuring equipment, which is properly calibrated to ensure accuracy.

All noise measurements were made in terms of A-weighted equivalent continuous sound pressure level in LAeq,T over a period of time T. For example, LAeq,5min are the equivalent sound pressure level measured over a 5-minutes time.

Noise survey was conducted for a full continuous twenty-four (24) hours, Seven (7) days, for **One (1) monitoring points/location**. The noise levels emitted were monitored accordingly and recorded.

The survey is conducted by qualified noise monitoring personnel and reference to Appendix C for their certificate.

3.0 INSTRUMENTS

Monitoring instrument was positioned at between 1.8 meters to 3 meters in height from the floor (Ground Level), Mid Level (5 – 6 storey building height) Or High Level (Roof Level). Overall noise distribution was fairly homogenous throughout the duration of noise survey.

Sound Level Meter used complies and conform to the minimum requirements of a Type 1/Class 1 instrument specified in the International Electrotechnical Commission (IEC) publications of 60651 and 60804.

Before and after the noise measurements, the sound level meter is calibrated to verify the accuracy of the instrument.

3.1 Sound Level Meters

CIRRUS RESEARCH plc, Model: CR191SG
Class 1 Data Logging Sound Level Meter
Serial Number: **G302699**

3.2 Acoustic Calibrator

CIRRUS RESEARCH plc, Model: CR515
Acoustic Calibrator
Serial Number: **60614**

Acoustic Pressure level:	94.01 dB	(reference 20uPa)
Step +20dB:	113.93 dB	
Nominal Frequency:	992 Hz	

The calibration certificate of the monitoring instrument can be found in Appendix D

4.0 NOISE SURVEY TERMS

- 4.1 A Weighting
A standard weighting of the audible frequencies designed to reflect the response of the human ear to noise.
- 4.2 Acoustic Calibrator
An instrument that provides a reference noise source that is used to calibrate and check the performance of a Sound Level Meter.
- 4.3 Broadband
Noise Measurements using parameters, which include all the audible noise
- 4.4 dB(A)
Decibels A Weighted
- 4.5 Decibel (dB)
The units of sound level and noise exposure measurement
- 4.6 Fast Time Weighting
A standard time weighting applied by the Sound Level Meter
- 4.7 IEC 60651:1979
The International Standard for Sound Level Meters
- 4.8 IEC 60804:1984
The International Standard for Integrating & Integrating-Averaging Sound Level Meters
- 4.9 IEC 61260:1995
The International Standard for 1:1 Octave & 1:3 Octave Band Filters
- 4.10 IEC 61672-1:2003
The International Standard for Sound Level Meter and Integrating Averaging Sound Level Meters that replaces both IEC 60651 and IEC 60804
- 4.11 Integrating Averaging Sound Level Meter
A Sound Level Meter which accumulates the total sound energy over a measurement period and calculates an average
- 4.12 LAeq,t
Equivalent continuous sound pressure level. A measure of the average sound pressure level during a period of time, t, in dB with 'A' weighting.
- 4.13 Sound Level
Sound Pressure Level with a Frequency weighting, such as dB(A)
- 4.14 Sound Level Meter
An instrument for measuring various noise parameters
- 4.15 Sound Pressure Level, SPL.
The basic measure of noise loudness, expressed in decibels

5.0 SURVEYING LOCATIONS

To carry out One (1) monitoring points/locations for continuous twenty-four (24) hours, Seven (7) days noise monitoring at the boundary of proposed construction site. (Refer to Appendix A for instrument layout plan)

Possible noise contribution source and occurrence:

NOISE MONITORING LOCATION	NOISE SOURCE	OCCURRENCE
Point NM7 :Gillman Barracks  	Vehicle Traffic Animals in the forest	Low To Medium - Vehicle Traffic along Telok Blangah Heights High - From animals and insects living within the forested area

Note: The above-mentioned noise sources may be limited and there are possible other noise sources not detected during the time of our site survey. For example, possible noise sources can be from occasional aircraft noise, or other activities nearby to the monitoring points.

6.0 NOISE SURVEY RESULTS

The noise survey was carried out in accordance with the Environmental Pollution Control Act (Chapter 94A, Section 77(1)), Environmental Pollution Control (Control of Noise at Construction Sites) Regulations, 1999.

Monday to Saturday

Types of Affected Building	Maximum Noise Level Permitted for construction sites (reckoned as an equivalent continuous noise level over a period of 5 minutes) in decibel (A)		
	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospitals, Schools, Institutions of Higher Learning, Homes for aged, Sick, etc	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	60 (LEQ 12hr)	50 (LEQ 12hr)	
(b) Residential Buildings Located less than 150m from the construction site where noise is being emitted	90 (Leq 5min)	70 (Leq 5min)	55 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 1hr)	55 (LEQ 1hr)
(c) Buildings (other than those in Paragraphs (a) and (b) above	90 (Leq 5min)	70 (Leq 5min)	70 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 12hr)	

Sunday and Public Holidays

Types of Affected Building	Maximum Noise Level Permitted for construction sites (reckoned as an equivalent continuous noise level over a period of 5 minutes) in decibel (A)		
	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospitals, Schools, Institutions of Higher Learning, Homes for aged, Sick, etc	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	60 (LEQ 12hr)	50 (LEQ 12hr)	
(b) Residential Buildings Located less than 150m from the construction site where noise is being emitted	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	75 (LEQ 12hr)	-	-
(c) Buildings (other than those in Paragraphs (a) and (b) above	90 (Leq 5min)	70 (Leq 5min)	70 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 12hr)	

Note:

No Work Rule on Sundays and Public Holidays

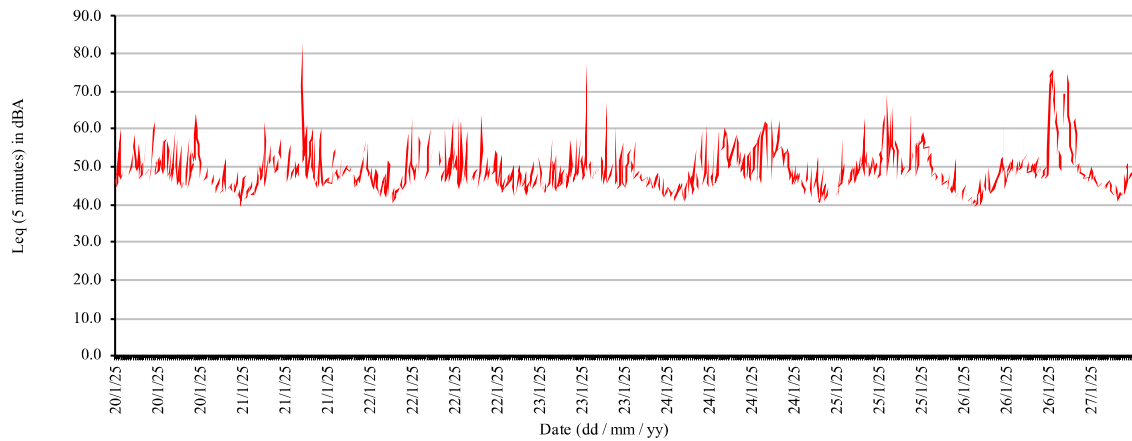
In addition to the settings of the permissible noise limits, NEA has also implemented a rule on prohibition of work on Sundays and Public Holidays (PH) for construction sites located within 150m away from residential premises and noise sensitive premises as follows:

Site Established from 1 September 2011. No work is allowed from 10.00pm on Sat/eve of PH to 7.00am on the following Mon/day after the PH. (For details, please refer to Appendix B)

Survey Results for monitoring point 1 from period : 20-Jan-2025 to 27-Jan-2025

Location : Gillman Barracks

Leq (5 Minutes) Plotted Against Date of Monitoring



Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 5 min in Leq db(A)	Maximum Noise Level permitted for construction sites Leq 5min db (A)
No. NM-7		From		To			
Gillman Barracks	Mon	20/1/25	0700	20/1/25	1900	61.7	90
	Mon	20/1/25	1900	20/1/25	2200	63.8	70
	Mon/Tue	20/1/25	2200	21/1/25	0700	52.3	70
	Tue	21/1/25	0700	21/1/25	1900	82.9	90
	Tue	21/1/25	1900	21/1/25	2200	54.8	70
	Tue/Wed	21/1/25	2200	22/1/25	0700	56.9	70
	Wed	22/1/25	0700	22/1/25	1900	66.3	90
	Wed	22/1/25	1900	22/1/25	2200	63.4	70
	Wed/Thu	22/1/25	2200	23/1/25	0700	57.4	70
	Thu	23/1/25	0700	23/1/25	1900	77.2	90
	Thu	23/1/25	1900	23/1/25	2200	57.1	70
	Thu/Fri	23/1/25	2200	24/1/25	0700	55.0	70
	Fri	24/1/25	0700	24/1/25	1900	62.0	90
	Fri	24/1/25	1900	24/1/25	2200	62.7	70
	Fri/Sat	24/1/25	2200	25/1/25	0700	57.5	70
	Sat	25/1/25	0700	25/1/25	1900	72.6	90
	Sat	25/1/25	1900	25/1/25	2200	59.3	70
	Sat/Sun	25/1/25	2200	26/1/25	0700	52.3	70
	Sun	26/1/25	0700	26/1/25	1900	76.3	90
	Sun	26/1/25	1900	26/1/25	2200	75.5	70
Sun/Mon	26/1/25	2200	27/1/25	0700	51.1	70	

Table 6.1 Summary of Noise Monitoring Results at Maximum Equivalent of LEQ 5 min

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 1 hr in Leq db(A) for the specific period	Maximum Noise Level permitted for construction sites Leq 1 hr db (A)
No. NM-7		From		To			
Gillman Barracks	Mon	20/1/25	1900	20/1/25	2200	58.0	-
	Mon	20/1/25	2200	21/1/25	0700	48.0	-
	Tue	21/1/25	1900	21/1/25	2200	50.1	-
	Tue	21/1/25	2200	22/1/25	0700	52.8	-
	Wed	22/1/25	1900	22/1/25	2200	55.2	-
	Wed	22/1/25	2200	23/1/25	0700	48.9	-
	Thu	23/1/25	1900	23/1/25	2200	51.5	-
	Thu	23/1/25	2200	24/1/25	0700	48.3	-
	Fri	24/1/25	1900	24/1/25	2200	57.1	-
	Fri	24/1/25	2200	25/1/25	0700	49.1	-
	Sat	25/1/25	1900	25/1/25	2200	56.8	-
	Sat	25/1/25	2200	26/1/25	0700	47.4	-
	Sun	26/1/25	1900	26/1/25	2200	69.2	-
	Sun	26/1/25	2200	27/1/25	0700	48.8	-

Table 6.2 Summary of Noise Monitoring Results at Maximum Equivalent of LEQ 1 hr

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 12 hr in Leq db(A)	Maximum Noise Level permitted for construction sites Leq 12 hr db (A)
No. NM-7		From		To			
Gillman Barracks	Mon	20/1/25	0700	20/1/25	1900	51.9	75
	Mon	20/1/25	1900	21/1/25	0700	50.0	65
	Tue	21/1/25	0700	21/1/25	1900	62.1	75
	Tue	21/1/25	1900	22/1/25	0700	48.2	65
	Wed	22/1/25	0700	22/1/25	1900	54.2	75
	Wed	22/1/25	1900	23/1/25	0700	49.3	65
	Thu	23/1/25	0700	23/1/25	1900	57.0	75
	Thu	23/1/25	1900	24/1/25	0700	47.2	65
	Fri	24/1/25	0700	24/1/25	1900	54.7	75
	Fri	24/1/25	1900	25/1/25	0700	51.6	65
	Sat	25/1/25	0700	25/1/25	1900	57.0	75
	Sat	25/1/25	1900	25/1/25	0700	50.3	65
	Sun	25/1/25	0700	26/1/25	1900	63.4	75
	Sun	26/1/25	1900	27/1/25	0700	61.4	65

Table 6.3 Summary of Noise Monitoring Results at LEQ 12 hr

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over specific period in Leq db(A)	Maximum Noise Level permitted for construction sites in db (A)
No. NM-7		From		To			
Gillman Barracks	Mon	20/1/25	700	20/1/25	1900	51.9	90(Leq5min) 75 (Leq12hrs)
	Mon	20/1/25	1900	20/1/25	2200	54.6	70 (Leq5min)
	Mon	20/1/25	2200	21/1/25	0000	46.8	70 (Leq5min)
	Tue	21/1/25	0000	21/1/25	700	45.7	70 (Leq5min)
	Tue	21/1/25	700	21/1/25	1900	62.1	90(Leq5min) 75 (Leq12hrs)
	Tue	21/1/25	1900	21/1/25	2200	49.4	70 (Leq5min)
	Tue	21/1/25	2200	22/1/25	0000	48.3	70 (Leq5min)
	Wed	22/1/25	0000	22/1/25	700	47.6	70 (Leq5min)
	Wed	22/1/25	700	22/1/25	1900	54.2	90(Leq5min) 75 (Leq12hrs)
	Wed	22/1/25	1900	22/1/25	2200	52.4	70 (Leq5min)
	Wed	22/1/25	2200	23/1/25	0000	46.8	70 (Leq5min)
	Thu	23/1/25	0000	23/1/25	700	47.6	70 (Leq5min)
	Thu	23/1/25	700	23/1/25	1900	57.0	90(Leq5min) 75 (Leq12hrs)
	Thu	23/1/25	1900	23/1/25	2200	50.1	70 (Leq5min)
	Thu	23/1/25	2200	24/1/25	0000	46.2	70 (Leq5min)
	Fri	24/1/25	0000	24/1/25	700	45.4	70 (Leq5min)
	Fri	24/1/25	700	24/1/25	1900	54.7	90(Leq5min) 75 (Leq12hrs)
	Fri	24/1/25	1900	24/1/25	2200	56.3	70 (Leq5min)
	Fri	24/1/25	2200	25/1/25	0000	48.1	70 (Leq5min)
	Sat	25/1/25	0000	25/1/25	700	46.7	70 (Leq5min)
	Sat	25/1/25	700	25/1/25	1900	57.0	90(Leq5min) 75 (Leq12hrs)
	Sat	25/1/25	1900	25/1/25	2200	55.2	70 (Leq5min)
	Sat	25/1/25	2200	26/1/25	0000	46.8	70 (Leq5min)
	Sun	26/1/25	0000	26/1/25	700	44.2	70 (Leq5min)
	Sun	26/1/25	700	26/1/25	1900	63.4	90(Leq5min) 75 (Leq12hrs)
	Sun	26/1/25	1900	26/1/25	2200	67.3	70 (Leq5min)
	Sun	26/1/25	2200	26/1/25	0000	48.0	70 (Leq5min)
	Mon	27/1/25	0000	27/1/25	0700	45.9	70 (Leq5min)

Table 6.4 Summary of Noise Monitoring Results at Continuous Equivalent of LEQ for specific period

7.0 SUMMARY

The purpose of this survey was to assess the current acoustical environment to establish the background noise level generated over One (1) monitoring point/location for continuous twenty-four (24) hours and seven (7) days noise monitoring at the boundary of the project site for Project Title

Baseline Noise Survey @ NM7 EIA Gillman Barracks

The location of the nearest Noise Receiver (NSR) :

Gillman Barracks

The findings show that,

The ambience noise at NSR Point NM7 at Gillman Barracks Area, falls within the Permissible limits stated in the NEA Guideline on construction noise control for most of the time period daily.

* Refer to Appendix E for full noise data report.

We recommend submitting an appeal to NEA to adjust the Noise Limit as in table 6.5 for NSR Point NM7 at Gillman Barracks Area

Background Noise Correction Factor

The adjusted value for the maximum noise level shall be obtained by adding the correction factor corresponding to the difference between the maximum permitted level and the background noise level, set out in the Table below, to the higher of the 2 noise levels.

Difference between 2 noise levels in decibels (A)	Correction factor in decibels (A)
a) Below 2	3
b) 2 to less than 4	2
c) 4 to less than 10	1
d) 10 and above	NIL

Proposed New Permissible Noise Level for monitoring point: **Gillman Barracks**

Period	Noise Limit	*Equivalent continuous sound level over period in Leq dB(A) - Background Noise	Difference	Correction Factor	Proposed Adjusted New Permissible Level (dBA)
7am to 7pm (Monday to Saturday)	90 (Leq 5min)	62.1	27.9	0	90 (Leq 5min)
	75 (Leq 12hr)	62.1	12.9	0	75 (Leq 12hr)
7pm to 10pm (Monday to Saturday)	70 (Leq 5min)	56.3	13.7	0	70 (Leq 5min)
10pm to 12am (Monday to Saturday)	70 (Leq 5min)	48.3	21.7	0	70 (Leq 5min)
12am to 7am (Monday to Saturday)	70 (Leq 5min)	47.6	22.4	0	70 (Leq 5min)
7pm to 7am (Monday to Saturday)	65 (Leq 12hrs)	51.6	13.4	0	65 (Leq 12hr)
7am to 7pm (Sunday)	90 (Leq 5min)	63.4	26.6	0	90 (Leq 5min)
	75 (Leq 12hr)	63.4	11.6	0	75 (Leq 12hr)
7pm to 10pm (Sunday)	70 (Leq 5min)	67.3	2.7	2	72 (Leq 5min)
10pm to 12am (Sunday)	70 (Leq 5min)	48.0	22.0	0	70 (Leq 5min)
12am to 7am (Sunday)	70 (Leq 5min)	44.2	25.8	0	70 (Leq 5min)
7pm to 7am (Sunday)	65 (Leq 12hrs)	61.4	3.6	2	67 (Leq 12hr)

* The highest equivalent continuous sound level in Leq dB(A) between Monday to Saturday is taken for calculating the adjusted new permissible level for each period.

Table 6.5 Proposed New Permissible Noise Level

8.0 CONFIRMATION

We, ENSSCOM PTE LTD, certify that the information given is correct. The noise survey was conducted for

CH2M HILL Singapore Pte Ltd

150 Beach Road, Gateway West 34th Floor, Singapore 189720

To carry out One (1) monitoring points/locations for continuous twenty-four (24) hours and seven (7) days noise monitoring at the boundary of the project site for Project Title

Baseline Noise Survey @ NM7 EIA Gillman Barracks

was carried out as described in this report and the results resented herein.

Date of Monitoring:

From 20/1/25 (0700hrs) to 27/1/25 (0700hrs)

Hoo Hian Choon (Mr)
Noise Monitoring Consultant
13-Feb-2025

APPENDIX A : INSTRUMENT LAYOUT PLAN



APPENDIX B: NEA CONSTRUCTION NOISE CONTROL GUIDELINE

Construction Noise Control

Maximum Permissible Noise Levels for Construction Work Commenced on or after 1st October 2007

Noise Regulation

Mondays to Saturdays

Types of affected buildings	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospital, schools, institutions of higher learning, homes for aged sick, etc.	60 dBA (Leq* 12 hrs)	50 dBA (Leq 12 hrs)	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(b) Residential buildings located less than 150m from the construction site	75 dBA (Leq 12 hrs)	65 dBA (Leq 1 hr)	55 dBA (Leq 1 hr)
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)
(c) Buildings other than those in (a) and (b) above	75 dBA (Leq 12 hrs)	65 dBA (Leq 12 hrs)	
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	

Sundays and Public Holidays

Types of affected buildings	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospital, schools, institutions of higher learning, homes for aged sick, etc.	60 dBA (Leq* 12 hrs)	50 dBA (Leq 12 hrs)	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(b) Residential buildings located less than 150m from the construction site	75 dBA (Leq 12 hrs)	-	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(c) Buildings other than those in (a) and (b) above	75 dBA (Leq 12 hrs)	65 dBA (Leq 12 hrs)	
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	

APPENDIX C: NOISE MONITORING OFFICER CERTIFICATES

S/No: 02/20/159



Acoustical Laboratory Pte Ltd
CENTRE FOR ENVIRONMENTAL CONSULTATION AND TRAINING

Certificate of Competence

This is to certify that

Hoo Hian Choon

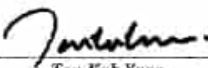
has attended and passed an examination
for a course on

Noise Monitoring

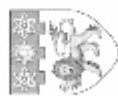
held between 22nd May 2002 and 24th May 2002

Acoustical Laboratory is approved by the Ministry of
Labour as a Training Centre for the
Noise Monitoring Course




Tan Kok Yang
Course Co-ordinator


Koh L. B.
Managing Director



NANYANG
TECHNOLOGICAL
UNIVERSITY

This is to certify that

Hoo Hian Choon

has successfully completed the 2½-day course

Industrial Noise Control

A handwritten signature in black ink, reading "Seah Ben Han".

Seah Ben Han
Director
Centre for Continuing Education

27 August 2010

APPENDIX D: INSTRUMENT CALIBRATION CERTIFICATES



Certificate of Calibration

Equipment Details

Instrument Manufacturer	Cirrus Research plc
Instrument Type	CR-191 RG
Description	Sound Level Meter
Serial Number	C302699

Calibration Procedure

The instrument detailed above have been subjected to the published test and calibration data as detailed in the instrument handbook, using the techniques recommended in the latest revision of the International Standards: IEC 61673-1:2013, IEC 61673-2:2002, IEC 61673-1:1979, IEC 60954-1:2004, IEC 61260:1995, IEC 60942:2003, IEC 60341:1997, IEC 61262-1:1993, ANSI S1.1-1983, ANSI S1.11-1986 and ANSI S1.43-1997 where applicable.
Sound Level Meter Calibration procedure- was carried out by acoustating the microphone capsule with suitable electrical signal, prior to the final acoustic calibration.

Calibration Traceability

The instrument detailed above was calibrated against the calibration laboratory standards held by Cirrus Research plc. These are traceable to International Standards (SI Units). The standards are:

Multi Acoustic Calibrator	D & K 4226	Serial Number	3041345	Calibration Ref	552263103068+84%
Microphone Type	MK 224	Serial Number	2146518	Calibration Ref	187359

Calibrated by

Calibration Date

16 February 2024

Calibration Certificate Number

249045

This Calibration Certificate is valid for 12 months from the date above

Cirrus Research plc, Acoustic House, Burlington Road, Harrogate, North Yorkshire, YO14 6DT
Telephone: 01430 7223 8914 Fax: 01430 7223 8917
Email: sales@cirrusresearch.co.uk

CERTIFICATE OF CALIBRATION

ISSUED BY: Cirrus Research plc

DATE OF ISSUE: 03 January 2025 CERTIFICATE NUMBER: 229571



Cirrus Research plc
Acoustic House
Bridlington Road
Hunmanby
North Yorkshire
YO14 0PH
United Kingdom

Page 1 of 2

Approved signatory
A. Windress
Electronically signed:

Sound Calibrator : IEC 60942:2003

Instrument information

Manufacturer: Cirrus Research plc

Notes:

Model: CR-515

Serial number: 60514

Class: 1

Test summary

Date of calibration: 03 January 2025

The sound calibrator detailed above has been calibrated to the published data as described in the operating manual and in the half-inch configuration. The procedures and techniques used are as described in IEC60942_2003 Annex B – Periodic Tests and three determinations of the sound pressure level, frequency and total distortion were made.

The sound pressure level was measured using a WS2F condenser microphone type MK-224 manufactured by Cirrus Research plc.

The results have been corrected to the reference pressure of 101.33 kPa using the manufacturer's data.

As public evidence was available, from a testing organisation responsible for approving the results of pattern evaluation tests, to demonstrate that the model of sound calibrator fully conformed to the requirements for pattern evaluation described in Annex A of IEC 60942:2003, the sound calibrator tested is considered to conform to all the Class 1 requirements of IEC 60942:2003.

The manufacturer's product information indicates that this model of sound calibrator has been formally pattern approved to IEC60942_2003 Annex A to Class 1. This has been confirmed by Laboratoire National d'Essais (LNE), Physikalisch-Technische Bundesanstalt (PTB) and APPLUS (APPLUS).

Notes:

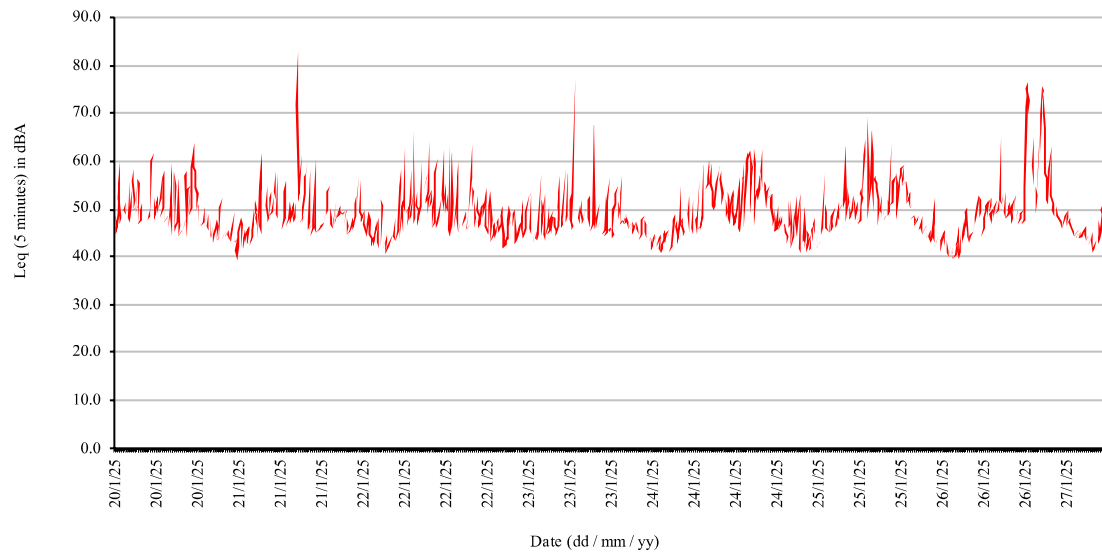
This certificate provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory. The results within this certificate relate only to the items calibrated. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%.

APPENDIX E

CONSTRUCTION SITE NOISE MONITORING DATA AND CHART

NAME OF COMPANY	CH2M HILL Singapore Pte Ltd		
SITE LOCATION	NM7 EIA Gillman Barracks		
REPORT REFERENCE	20/01/2025 - 27/01/2025		
MODE	Environment	FREQUENCY WEIGHTING	A

Leq (5 Minutes) Plotted Against Date of Monitoring



NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM7 EIA Gillman Barracks								
REPORT REFERENCE			20/01/2025 - 27/01/2025								
Start	20/1/25		7:05	Leq12h	51.9			Weighting		A	
End	20/1/25		19:00								
Date	Time	Leq5m		Date	Time	Leq5m		Date	Time	Leq5m	
20/1/25	7:05	48.0		20/1/25	11:05	51.1		20/1/25	15:05	50.2	
20/1/25	7:10	48.5		20/1/25	11:10	48.2		20/1/25	15:10	56.5	
20/1/25	7:15	46.5		20/1/25	11:15	47.0		20/1/25	15:15	56.0	
20/1/25	7:20	46.0		20/1/25	11:20	47.8		20/1/25	15:20	57.8	
20/1/25	7:25	44.8		20/1/25	11:25	49.8		20/1/25	15:25	47.5	
20/1/25	7:30	46.0		20/1/25	11:30	50.4		20/1/25	15:30	49.6	
20/1/25	7:35	49.0		20/1/25	11:35	51.1		20/1/25	15:35	57.1	
20/1/25	7:40	49.1		20/1/25	11:40	48.7		20/1/25	15:40	54.5	
20/1/25	7:45	60.1		20/1/25	11:45	49.0		20/1/25	15:45	47.2	
20/1/25	7:50	52.2		20/1/25	11:50	48.5		20/1/25	15:50	48.6	
20/1/25	7:55	48.1		20/1/25	11:55	48.0		20/1/25	15:55	48.0	
20/1/25	8:00	48.7		20/1/25	12:00	58.5		20/1/25	16:00	46.1	
20/1/25	8:05	46.9		20/1/25	12:05	48.7		20/1/25	16:05	54.8	
20/1/25	8:10	49.1		20/1/25	12:10	50.1		20/1/25	16:10	50.9	
20/1/25	8:15	47.4		20/1/25	12:15	47.9		20/1/25	16:15	46.9	
20/1/25	8:20	47.4		20/1/25	12:20	49.4		20/1/25	16:20	49.5	
20/1/25	8:25	48.4		20/1/25	12:25	48.9		20/1/25	16:25	45.8	
20/1/25	8:30	49.0		20/1/25	12:30	49.0		20/1/25	16:30	51.1	
20/1/25	8:35	47.0		20/1/25	12:35	49.3		20/1/25	16:35	48.6	
20/1/25	8:40	51.4		20/1/25	12:40	45.9		20/1/25	16:40	59.7	
20/1/25	8:45	48.5		20/1/25	12:45	50.3		20/1/25	16:45	48.9	
20/1/25	8:50	49.8		20/1/25	12:50	47.5		20/1/25	16:50	44.2	
20/1/25	8:55	49.4		20/1/25	12:55	49.7		20/1/25	16:55	50.9	
20/1/25	9:00	49.7		20/1/25	13:00	49.7		20/1/25	17:00	45.7	
20/1/25	9:05	50.3		20/1/25	13:05	48.7		20/1/25	17:05	57.8	
20/1/25	9:10	48.9		20/1/25	13:10	51.5		20/1/25	17:10	54.9	
20/1/25	9:15	55.7		20/1/25	13:15	48.9		20/1/25	17:15	50.7	
20/1/25	9:20	47.9		20/1/25	13:20	59.8		20/1/25	17:20	45.1	
20/1/25	9:25	48.1		20/1/25	13:25	61.7		20/1/25	17:25	46.3	
20/1/25	9:30	48.1	20/1/25	13:30	51.8	20/1/25	17:30	47.1			
20/1/25	9:35	47.5	20/1/25	13:35	48.4	20/1/25	17:35	46.9			
20/1/25	9:40	47.4	20/1/25	13:40	52.2	20/1/25	17:40	47.0			
20/1/25	9:45	50.2	20/1/25	13:45	49.2	20/1/25	17:45	56.0			
20/1/25	9:50	50.4	20/1/25	13:50	48.4	20/1/25	17:50	46.4			
20/1/25	9:55	53.6	20/1/25	13:55	47.8	20/1/25	17:55	46.2			
20/1/25	10:00	49.2	20/1/25	14:00	49.1	20/1/25	18:00	44.4			
20/1/25	10:05	49.7	20/1/25	14:05	49.5	20/1/25	18:05	44.8			
20/1/25	10:10	58.4	20/1/25	14:10	52.8	20/1/25	18:10	44.5			
20/1/25	10:15	55.6	20/1/25	14:15	50.9	20/1/25	18:15	45.7			
20/1/25	10:20	51.9	20/1/25	14:20	50.5	20/1/25	18:20	45.5			
20/1/25	10:25	50.3	20/1/25	14:25	48.8	20/1/25	18:25	45.0			
20/1/25	10:30	50.9	20/1/25	14:30	51.2	20/1/25	18:30	45.3			
20/1/25	10:35	50.0	20/1/25	14:35	52.2	20/1/25	18:35	45.1			
20/1/25	10:40	50.7	20/1/25	14:40	50.0	20/1/25	18:40	45.2			
20/1/25	10:45	49.0	20/1/25	14:45	52.3	20/1/25	18:45	45.7			
20/1/25	10:50	50.1	20/1/25	14:50	49.6	20/1/25	18:50	44.8			
20/1/25	10:55	56.1	20/1/25	14:55	57.2	20/1/25	18:55	48.6			
20/1/25	11:00	55.5	20/1/25	15:00	48.0	20/1/25	19:00	58.0			

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM7 EIA Gillman Barracks								
REPORT REFERENCE			20/01/2025 - 27/01/2025								
Start	20/1/25		19:05	Leq12h		50.0		Weighting		A	
End	21/1/25		7:00								
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
20/1/25	19:05	46.7	52.0	20/1/25	23:05	45.4	45.1	21/1/25	3:05	49.2	43.8
20/1/25	19:10	56.8		20/1/25	23:10	46.1		21/1/25	3:10	45.6	
20/1/25	19:15	44.1		20/1/25	23:15	47.9		21/1/25	3:15	42.0	
20/1/25	19:20	48.1		20/1/25	23:20	44.0		21/1/25	3:20	43.9	
20/1/25	19:25	52.0		20/1/25	23:25	46.5		21/1/25	3:25	42.9	
20/1/25	19:30	54.1		20/1/25	23:30	44.2		21/1/25	3:30	43.0	
20/1/25	19:35	55.0		20/1/25	23:35	44.3		21/1/25	3:35	44.0	
20/1/25	19:40	50.8		20/1/25	23:40	44.0		21/1/25	3:40	42.5	
20/1/25	19:45	50.2		20/1/25	23:45	44.0		21/1/25	3:45	41.2	
20/1/25	19:50	48.4		20/1/25	23:50	43.0		21/1/25	3:50	39.3	
20/1/25	19:55	50.3	58.0	20/1/25	23:55	44.9	46.5	21/1/25	3:55	39.6	44.9
20/1/25	20:00	51.8		20/1/25	0:00	44.9		21/1/25	4:00	42.0	
20/1/25	20:05	51.6		21/1/25	0:05	46.0		21/1/25	4:05	45.0	
20/1/25	20:10	58.8		21/1/25	0:10	46.2		21/1/25	4:10	45.3	
20/1/25	20:15	63.8		21/1/25	0:15	47.5		21/1/25	4:15	44.8	
20/1/25	20:20	59.6		21/1/25	0:20	48.0		21/1/25	4:20	46.8	
20/1/25	20:25	59.1		21/1/25	0:25	46.6		21/1/25	4:25	48.0	
20/1/25	20:30	58.7		21/1/25	0:30	47.0		21/1/25	4:30	46.7	
20/1/25	20:35	57.8		21/1/25	0:35	43.3		21/1/25	4:35	44.0	
20/1/25	20:40	56.1		21/1/25	0:40	43.7		21/1/25	4:40	41.7	
20/1/25	20:45	54.6	48.0	21/1/25	0:45	44.1	47.3	21/1/25	4:45	42.6	44.0
20/1/25	20:50	53.9		21/1/25	0:50	42.9		21/1/25	4:50	41.7	
20/1/25	20:55	53.3		21/1/25	0:55	46.8		21/1/25	4:55	43.7	
20/1/25	21:00	51.2		21/1/25	1:00	50.1		21/1/25	5:00	43.3	
20/1/25	21:05	49.6		21/1/25	1:05	52.3		21/1/25	5:05	45.4	
20/1/25	21:10	51.0		21/1/25	1:10	50.5		21/1/25	5:10	42.9	
20/1/25	21:15	47.0		21/1/25	1:15	46.1		21/1/25	5:15	42.8	
20/1/25	21:20	47.0		21/1/25	1:20	43.2		21/1/25	5:20	42.5	
20/1/25	21:25	48.2		21/1/25	1:25	45.1		21/1/25	5:25	44.6	
20/1/25	21:30	48.8		21/1/25	1:30	44.2		21/1/25	5:30	46.2	
20/1/25	21:35	46.0	48.0	21/1/25	1:35	47.5	44.7	21/1/25	5:35	45.6	47.0
20/1/25	21:40	46.5		21/1/25	1:40	45.0		21/1/25	5:40	42.6	
20/1/25	21:45	47.7		21/1/25	1:45	46.0		21/1/25	5:45	42.8	
20/1/25	21:50	48.1		21/1/25	1:50	47.2		21/1/25	5:50	43.6	
20/1/25	21:55	46.3		21/1/25	1:55	44.1		21/1/25	5:55	43.2	
20/1/25	22:00	46.4		21/1/25	2:00	44.7		21/1/25	6:00	43.2	
20/1/25	22:05	46.5		21/1/25	2:05	45.6		21/1/25	6:05	42.3	
20/1/25	22:10	47.1		21/1/25	2:10	45.6		21/1/25	6:10	44.4	
20/1/25	22:15	50.2		21/1/25	2:15	44.7		21/1/25	6:15	44.6	
20/1/25	22:20	50.7		21/1/25	2:20	44.8		21/1/25	6:20	44.5	
20/1/25	22:25	46.5	48.0	21/1/25	2:25	45.2	44.7	21/1/25	6:25	45.7	47.0
20/1/25	22:30	46.4		21/1/25	2:30	43.8		21/1/25	6:30	45.0	
20/1/25	22:35	48.8		21/1/25	2:35	45.7		21/1/25	6:35	45.3	
20/1/25	22:40	47.6		21/1/25	2:40	44.0		21/1/25	6:40	51.9	
20/1/25	22:45	48.8		21/1/25	2:45	44.0		21/1/25	6:45	45.4	
20/1/25	22:50	46.6		21/1/25	2:50	43.1		21/1/25	6:50	47.8	
20/1/25	22:55	46.4		21/1/25	2:55	42.8		21/1/25	6:55	47.1	
20/1/25	23:00	46.9		21/1/25	3:00	45.5		21/1/25	7:00	49.9	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM7 EIA Gillman Barracks								
REPORT REFERENCE			20/01/2025 - 27/01/2025								
Start	21/1/25		7:05	Leq12h			62.1	Weighting		A	
End	21/1/25		19:00								
Date	Time	Leq5m		Date	Time	Leq5m		Date	Time	Leq5m	
21/1/25	7:05	50.2		21/1/25	11:05	49.7		21/1/25	15:05	53.2	
21/1/25	7:10	48.1		21/1/25	11:10	51.7		21/1/25	15:10	56.3	
21/1/25	7:15	46.2		21/1/25	11:15	51.2		21/1/25	15:15	57.1	
21/1/25	7:20	47.4		21/1/25	11:20	47.9		21/1/25	15:20	55.7	
21/1/25	7:25	54.2		21/1/25	11:25	50.0		21/1/25	15:25	56.5	
21/1/25	7:30	43.9		21/1/25	11:30	49.4		21/1/25	15:30	57.5	
21/1/25	7:35	55.0		21/1/25	11:35	45.7		21/1/25	15:35	60.1	
21/1/25	7:40	61.8		21/1/25	11:40	47.9		21/1/25	15:40	50.1	
21/1/25	7:45	56.9		21/1/25	11:45	48.0		21/1/25	15:45	48.5	
21/1/25	7:50	46.3		21/1/25	11:50	53.7		21/1/25	15:50	48.0	
21/1/25	7:55	44.7		21/1/25	11:55	55.9		21/1/25	15:55	58.3	
21/1/25	8:00	46.7		21/1/25	12:00	49.7		21/1/25	16:00	47.3	
21/1/25	8:05	53.3		21/1/25	12:05	52.8		21/1/25	16:05	45.6	
21/1/25	8:10	45.9		21/1/25	12:10	49.4		21/1/25	16:10	46.7	
21/1/25	8:15	45.9		21/1/25	12:15	46.4		21/1/25	16:15	46.7	
21/1/25	8:20	46.4		21/1/25	12:20	48.2		21/1/25	16:20	46.7	
21/1/25	8:25	45.5		21/1/25	12:25	50.3		21/1/25	16:25	44.3	
21/1/25	8:30	55.8		21/1/25	12:30	47.7		21/1/25	16:30	45.9	
21/1/25	8:35	51.6		21/1/25	12:35	48.3		21/1/25	16:35	45.5	
21/1/25	8:40	50.8		21/1/25	12:40	51.5		21/1/25	16:40	46.6	
21/1/25	8:45	54.9		21/1/25	12:45	49.0		21/1/25	16:45	47.5	
21/1/25	8:50	50.6		21/1/25	12:50	48.1		21/1/25	16:50	60.5	
21/1/25	8:55	48.1		21/1/25	12:55	46.9		21/1/25	16:55	56.8	
21/1/25	9:00	50.5		21/1/25	13:00	49.0		21/1/25	17:00	53.1	
21/1/25	9:05	47.1		21/1/25	13:05	48.5		21/1/25	17:05	46.0	
21/1/25	9:10	48.9		21/1/25	13:10	49.9		21/1/25	17:10	45.2	
21/1/25	9:15	53.5		21/1/25	13:15	51.3		21/1/25	17:15	45.6	
21/1/25	9:20	52.2		21/1/25	13:20	49.2		21/1/25	17:20	45.2	
21/1/25	9:25	48.4		21/1/25	13:25	47.3		21/1/25	17:25	44.7	
21/1/25	9:30	49.1	21/1/25	13:30	47.9	21/1/25	17:30	46.1			
21/1/25	9:35	48.5	21/1/25	13:35	51.2	21/1/25	17:35	45.2			
21/1/25	9:40	48.5	21/1/25	13:40	50.8	21/1/25	17:40	45.2			
21/1/25	9:45	49.5	21/1/25	13:45	46.8	21/1/25	17:45	45.3			
21/1/25	9:50	49.4	21/1/25	13:50	58.8	21/1/25	17:50	45.7			
21/1/25	9:55	52.2	21/1/25	13:55	82.9	21/1/25	17:55	45.3			
21/1/25	10:00	48.9	21/1/25	14:00	71.7	21/1/25	18:00	46.4			
21/1/25	10:05	57.8	21/1/25	14:05	53.6	21/1/25	18:05	46.6			
21/1/25	10:10	57.4	21/1/25	14:10	51.3	21/1/25	18:10	47.1			
21/1/25	10:15	53.8	21/1/25	14:15	52.1	21/1/25	18:15	45.8			
21/1/25	10:20	53.1	21/1/25	14:20	54.6	21/1/25	18:20	45.7			
21/1/25	10:25	52.0	21/1/25	14:25	61.3	21/1/25	18:25	45.8			
21/1/25	10:30	57.5	21/1/25	14:30	56.4	21/1/25	18:30	45.7			
21/1/25	10:35	49.1	21/1/25	14:35	48.0	21/1/25	18:35	46.2			
21/1/25	10:40	48.9	21/1/25	14:40	47.3	21/1/25	18:40	46.5			
21/1/25	10:45	49.0	21/1/25	14:45	48.4	21/1/25	18:45	46.0			
21/1/25	10:50	48.2	21/1/25	14:50	48.6	21/1/25	18:50	49.8			
21/1/25	10:55	48.5	21/1/25	14:55	46.8	21/1/25	18:55	49.9			
21/1/25	11:00	55.7	21/1/25	15:00	50.1	21/1/25	19:00	48.8			

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM7 EIA Gillman Barracks							
REPORT REFERENCE				20/01/2025 - 27/01/2025							
Start	21/1/25	19:05		Leq12h	48.2			Weighting		A	
End	22/1/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
21/1/25	19:05	49.7	50.1	21/1/25	23:05	47.9	49.5	22/1/25	3:05	43.8	45.0
21/1/25	19:10	53.7		21/1/25	23:10	48.2		22/1/25	3:10	47.7	
21/1/25	19:15	54.8		21/1/25	23:15	47.6		22/1/25	3:15	44.7	
21/1/25	19:20	47.6		21/1/25	23:20	46.8		22/1/25	3:20	45.4	
21/1/25	19:25	49.3		21/1/25	23:25	47.0		22/1/25	3:25	45.6	
21/1/25	19:30	50.3		21/1/25	23:30	46.8		22/1/25	3:30	48.2	
21/1/25	19:35	49.6		21/1/25	23:35	45.6		22/1/25	3:35	44.8	
21/1/25	19:40	48.2		21/1/25	23:40	48.4		22/1/25	3:40	43.2	
21/1/25	19:45	47.5		21/1/25	23:45	51.1		22/1/25	3:45	42.9	
21/1/25	19:50	46.7		21/1/25	23:50	52.7		22/1/25	3:50	41.9	
21/1/25	19:55	47.2	48.7	21/1/25	23:55	52.3	52.8	22/1/25	3:55	42.8	46.9
21/1/25	20:00	46.5		21/1/25	0:00	51.5		22/1/25	4:00	44.6	
21/1/25	20:05	46.9		22/1/25	0:05	51.9		22/1/25	4:05	51.8	
21/1/25	20:10	46.1		22/1/25	0:10	56.9		22/1/25	4:10	50.7	
21/1/25	20:15	52.1		22/1/25	0:15	54.0		22/1/25	4:15	42.2	
21/1/25	20:20	46.8		22/1/25	0:20	53.6		22/1/25	4:20	46.8	
21/1/25	20:25	49.7		22/1/25	0:25	56.1		22/1/25	4:25	48.7	
21/1/25	20:30	47.4		22/1/25	0:30	54.7		22/1/25	4:30	43.2	
21/1/25	20:35	49.8		22/1/25	0:35	50.7		22/1/25	4:35	45.8	
21/1/25	20:40	47.9		22/1/25	0:40	49.4		22/1/25	4:40	44.0	
21/1/25	20:45	48.1	49.4	22/1/25	0:45	48.5	46.8	22/1/25	4:45	41.7	43.3
21/1/25	20:50	47.9		22/1/25	0:50	47.1		22/1/25	4:50	44.5	
21/1/25	20:55	48.5		22/1/25	0:55	47.1		22/1/25	4:55	45.0	
21/1/25	21:00	49.1		22/1/25	1:00	48.2		22/1/25	5:00	43.0	
21/1/25	21:05	50.5		22/1/25	1:05	49.9		22/1/25	5:05	40.6	
21/1/25	21:10	49.5		22/1/25	1:10	47.6		22/1/25	5:10	42.1	
21/1/25	21:15	49.6		22/1/25	1:15	46.8		22/1/25	5:15	44.0	
21/1/25	21:20	49.6		22/1/25	1:20	46.6		22/1/25	5:20	44.9	
21/1/25	21:25	48.8		22/1/25	1:25	45.4		22/1/25	5:25	42.3	
21/1/25	21:30	49.2		22/1/25	1:30	45.0		22/1/25	5:30	42.3	
21/1/25	21:35	49.0	46.6	22/1/25	1:35	45.0	44.3	22/1/25	5:35	43.3	45.4
21/1/25	21:40	49.0		22/1/25	1:40	45.5		22/1/25	5:40	43.4	
21/1/25	21:45	49.2		22/1/25	1:45	44.2		22/1/25	5:45	43.8	
21/1/25	21:50	48.8		22/1/25	1:50	44.8		22/1/25	5:50	44.7	
21/1/25	21:55	49.2		22/1/25	1:55	46.8		22/1/25	5:55	43.7	
21/1/25	22:00	50.0		22/1/25	2:00	49.5		22/1/25	6:00	43.2	
21/1/25	22:05	49.5		22/1/25	2:05	47.7		22/1/25	6:05	46.2	
21/1/25	22:10	46.9		22/1/25	2:10	44.7		22/1/25	6:10	47.0	
21/1/25	22:15	48.0		22/1/25	2:15	44.2		22/1/25	6:15	42.4	
21/1/25	22:20	47.9		22/1/25	2:20	45.1		22/1/25	6:20	48.1	
21/1/25	22:25	46.2	46.6	22/1/25	2:25	43.7	44.3	22/1/25	6:25	45.3	45.4
21/1/25	22:30	46.6		22/1/25	2:30	44.2		22/1/25	6:30	44.2	
21/1/25	22:35	44.7		22/1/25	2:35	42.3		22/1/25	6:35	44.1	
21/1/25	22:40	45.0		22/1/25	2:40	43.6		22/1/25	6:40	44.8	
21/1/25	22:45	45.5		22/1/25	2:45	43.1		22/1/25	6:45	44.4	
21/1/25	22:50	45.2		22/1/25	2:50	44.2		22/1/25	6:50	43.5	
21/1/25	22:55	44.6		22/1/25	2:55	42.1		22/1/25	6:55	45.5	
21/1/25	23:00	46.3		22/1/25	3:00	43.5		22/1/25	7:00	45.7	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM7 EIA Gillman Barracks						
REPORT REFERENCE			20/01/2025 - 27/01/2025						
Start	22/1/25	7:05	Leq12h	54.2	Weighting			A	
End	22/1/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m	
22/1/25	7:05	46.9	22/1/25	11:05	55.7	22/1/25	15:05	49.1	
22/1/25	7:10	46.7	22/1/25	11:10	51.4	22/1/25	15:10	51.5	
22/1/25	7:15	46.5	22/1/25	11:15	55.4	22/1/25	15:15	53.1	
22/1/25	7:20	54.8	22/1/25	11:20	51.6	22/1/25	15:20	51.7	
22/1/25	7:25	58.4	22/1/25	11:25	52.1	22/1/25	15:25	50.3	
22/1/25	7:30	43.5	22/1/25	11:30	56.8	22/1/25	15:30	49.2	
22/1/25	7:35	50.5	22/1/25	11:35	53.5	22/1/25	15:35	50.7	
22/1/25	7:40	51.7	22/1/25	11:40	57.1	22/1/25	15:40	63.5	
22/1/25	7:45	49.2	22/1/25	11:45	51.0	22/1/25	15:45	45.5	
22/1/25	7:50	49.3	22/1/25	11:50	57.4	22/1/25	15:50	46.0	
22/1/25	7:55	45.0	22/1/25	11:55	51.9	22/1/25	15:55	44.2	
22/1/25	8:00	63.0	22/1/25	12:00	53.6	22/1/25	16:00	46.5	
22/1/25	8:05	50.8	22/1/25	12:05	64.2	22/1/25	16:05	61.6	
22/1/25	8:10	50.3	22/1/25	12:10	49.1	22/1/25	16:10	51.2	
22/1/25	8:15	50.3	22/1/25	12:15	50.5	22/1/25	16:15	45.0	
22/1/25	8:20	48.8	22/1/25	12:20	52.1	22/1/25	16:20	48.2	
22/1/25	8:25	49.7	22/1/25	12:25	54.2	22/1/25	16:25	64.3	
22/1/25	8:30	49.6	22/1/25	12:30	51.4	22/1/25	16:30	47.3	
22/1/25	8:35	46.4	22/1/25	12:35	50.3	22/1/25	16:35	48.5	
22/1/25	8:40	51.2	22/1/25	12:40	50.7	22/1/25	16:40	49.0	
22/1/25	8:45	46.7	22/1/25	12:45	50.4	22/1/25	16:45	45.5	
22/1/25	8:50	47.4	22/1/25	12:50	52.8	22/1/25	16:50	52.2	
22/1/25	8:55	51.9	22/1/25	12:55	50.1	22/1/25	16:55	59.9	
22/1/25	9:00	47.6	22/1/25	13:00	46.0	22/1/25	17:00	53.3	
22/1/25	9:05	58.2	22/1/25	13:05	47.1	22/1/25	17:05	47.9	
22/1/25	9:10	56.5	22/1/25	13:10	49.7	22/1/25	17:10	45.0	
22/1/25	9:15	48.7	22/1/25	13:15	48.7	22/1/25	17:15	45.1	
22/1/25	9:20	48.3	22/1/25	13:20	57.3	22/1/25	17:20	45.7	
22/1/25	9:25	53.3	22/1/25	13:25	60.2	22/1/25	17:25	47.0	
22/1/25	9:30	49.7	22/1/25	13:30	49.0	22/1/25	17:30	44.6	
22/1/25	9:35	66.3	22/1/25	13:35	45.9	22/1/25	17:35	44.4	
22/1/25	9:40	48.2	22/1/25	13:40	46.7	22/1/25	17:40	44.3	
22/1/25	9:45	49.6	22/1/25	13:45	46.2	22/1/25	17:45	53.5	
22/1/25	9:50	46.8	22/1/25	13:50	46.7	22/1/25	17:50	46.3	
22/1/25	9:55	51.2	22/1/25	13:55	46.2	22/1/25	17:55	46.3	
22/1/25	10:00	48.0	22/1/25	14:00	48.7	22/1/25	18:00	46.5	
22/1/25	10:05	50.1	22/1/25	14:05	47.9	22/1/25	18:05	47.1	
22/1/25	10:10	53.6	22/1/25	14:10	52.3	22/1/25	18:10	46.3	
22/1/25	10:15	50.5	22/1/25	14:15	46.0	22/1/25	18:15	46.2	
22/1/25	10:20	49.7	22/1/25	14:20	53.5	22/1/25	18:20	46.3	
22/1/25	10:25	46.5	22/1/25	14:25	48.2	22/1/25	18:25	48.2	
22/1/25	10:30	48.9	22/1/25	14:30	47.7	22/1/25	18:30	49.3	
22/1/25	10:35	48.6	22/1/25	14:35	62.5	22/1/25	18:35	46.4	
22/1/25	10:40	50.7	22/1/25	14:40	52.8	22/1/25	18:40	48.9	
22/1/25	10:45	55.0	22/1/25	14:45	49.2	22/1/25	18:45	47.9	
22/1/25	10:50	60.0	22/1/25	14:50	49.3	22/1/25	18:50	45.7	
22/1/25	10:55	52.2	22/1/25	14:55	55.2	22/1/25	18:55	46.7	
22/1/25	11:00	57.7	22/1/25	15:00	52.4	22/1/25	19:00	56.6	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM7 EIA Gillman Barracks								
REPORT REFERENCE			20/01/2025 - 27/01/2025								
Start	22/1/25	19:05	Leq12h		49.3	Weighting				A	
End	23/1/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
22/1/25	19:05	44.1	55.2	22/1/25	23:05	45.3	45.8	23/1/25	3:05	43.4	47.1
22/1/25	19:10	49.1		22/1/25	23:10	47.4		23/1/25	3:10	44.7	
22/1/25	19:15	56.7		22/1/25	23:15	46.6		23/1/25	3:15	44.8	
22/1/25	19:20	53.6		22/1/25	23:20	43.9		23/1/25	3:20	45.2	
22/1/25	19:25	63.4		22/1/25	23:25	44.4		23/1/25	3:25	46.4	
22/1/25	19:30	54.4		22/1/25	23:30	45.3		23/1/25	3:30	45.8	
22/1/25	19:35	53.6		22/1/25	23:35	46.2		23/1/25	3:35	44.9	
22/1/25	19:40	50.2		22/1/25	23:40	43.8		23/1/25	3:40	46.2	
22/1/25	19:45	52.0		22/1/25	23:45	43.5		23/1/25	3:45	46.2	
22/1/25	19:50	51.7		22/1/25	23:50	48.2		23/1/25	3:50	47.4	
22/1/25	19:55	48.3	48.6	22/1/25	23:55	47.2	46.6	23/1/25	3:55	49.6	48.8
22/1/25	20:00	45.8		22/1/25	0:00	45.1		23/1/25	4:00	51.9	
22/1/25	20:05	45.4		23/1/25	0:05	45.5		23/1/25	4:05	46.1	
22/1/25	20:10	46.2		23/1/25	0:10	45.3		23/1/25	4:10	44.0	
22/1/25	20:15	48.2		23/1/25	0:15	45.9		23/1/25	4:15	43.9	
22/1/25	20:20	52.7		23/1/25	0:20	46.0		23/1/25	4:20	44.6	
22/1/25	20:25	46.3		23/1/25	0:25	47.0		23/1/25	4:25	44.6	
22/1/25	20:30	50.0		23/1/25	0:30	48.7		23/1/25	4:30	46.0	
22/1/25	20:35	48.6		23/1/25	0:35	50.7		23/1/25	4:35	48.7	
22/1/25	20:40	46.1		23/1/25	0:40	48.4		23/1/25	4:40	46.5	
22/1/25	20:45	46.8	50.7	23/1/25	0:45	44.9	46.5	23/1/25	4:45	49.4	48.0
22/1/25	20:50	46.9		23/1/25	0:50	42.6		23/1/25	4:50	52.9	
22/1/25	20:55	47.0		23/1/25	0:55	42.9		23/1/25	4:55	52.0	
22/1/25	21:00	51.2		23/1/25	1:00	41.9		23/1/25	5:00	52.0	
22/1/25	21:05	47.1		23/1/25	1:05	42.7		23/1/25	5:05	52.4	
22/1/25	21:10	51.3		23/1/25	1:10	43.0		23/1/25	5:10	53.3	
22/1/25	21:15	50.3		23/1/25	1:15	44.1		23/1/25	5:15	48.6	
22/1/25	21:20	51.2		23/1/25	1:20	43.2		23/1/25	5:20	46.9	
22/1/25	21:25	48.0		23/1/25	1:25	43.9		23/1/25	5:25	45.9	
22/1/25	21:30	48.9		23/1/25	1:30	43.5		23/1/25	5:30	44.9	
22/1/25	21:35	50.6	47.6	23/1/25	1:35	47.6	46.4	23/1/25	5:35	46.8	48.9
22/1/25	21:40	51.3		23/1/25	1:40	50.5		23/1/25	5:40	44.1	
22/1/25	21:45	54.5		23/1/25	1:45	48.9		23/1/25	5:45	44.5	
22/1/25	21:50	53.3		23/1/25	1:50	48.0		23/1/25	5:50	43.4	
22/1/25	21:55	46.5		23/1/25	1:55	46.6		23/1/25	5:55	45.1	
22/1/25	22:00	46.2		23/1/25	2:00	47.1		23/1/25	6:00	44.1	
22/1/25	22:05	46.9		23/1/25	2:05	44.8		23/1/25	6:05	42.9	
22/1/25	22:10	46.1		23/1/25	2:10	47.8		23/1/25	6:10	45.7	
22/1/25	22:15	45.6		23/1/25	2:15	47.7		23/1/25	6:15	43.7	
22/1/25	22:20	45.6		23/1/25	2:20	44.8		23/1/25	6:20	45.7	
22/1/25	22:25	44.7	47.6	23/1/25	2:25	44.9	46.4	23/1/25	6:25	44.4	48.9
22/1/25	22:30	50.7		23/1/25	2:30	46.2		23/1/25	6:30	44.3	
22/1/25	22:35	53.4		23/1/25	2:35	48.9		23/1/25	6:35	43.5	
22/1/25	22:40	47.5		23/1/25	2:40	49.7		23/1/25	6:40	44.8	
22/1/25	22:45	45.0		23/1/25	2:45	44.4		23/1/25	6:45	45.6	
22/1/25	22:50	44.4		23/1/25	2:50	44.5		23/1/25	6:50	45.5	
22/1/25	22:55	43.2		23/1/25	2:55	43.6		23/1/25	6:55	57.4	
22/1/25	23:00	44.5		23/1/25	3:00	42.6		23/1/25	7:00	49.0	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd							
SITE LOCATION			NM7 EIA Gillman Barracks							
REPORT REFERENCE			20/01/2025 - 27/01/2025							
Start	23/1/25	7:05	Leq12h	57.0				Weighting		A
End	23/1/25	19:00								
Date	Time	Leq5m	Date	Time	Leq5m		Date	Time	Leq5m	
23/1/25	7:05	50.0	23/1/25	11:05	49.8		23/1/25	15:05	45.5	
23/1/25	7:10	51.8	23/1/25	11:10	47.1		23/1/25	15:10	52.6	
23/1/25	7:15	50.3	23/1/25	11:15	54.4		23/1/25	15:15	51.8	
23/1/25	7:20	46.6	23/1/25	11:20	54.8		23/1/25	15:20	48.2	
23/1/25	7:25	44.4	23/1/25	11:25	47.2		23/1/25	15:25	48.1	
23/1/25	7:30	48.7	23/1/25	11:30	48.7		23/1/25	15:30	45.8	
23/1/25	7:35	53.1	23/1/25	11:35	57.5		23/1/25	15:35	45.0	
23/1/25	7:40	44.8	23/1/25	11:40	50.1		23/1/25	15:40	48.9	
23/1/25	7:45	44.3	23/1/25	11:45	50.0		23/1/25	15:45	45.1	
23/1/25	7:50	44.9	23/1/25	11:50	51.6		23/1/25	15:50	46.9	
23/1/25	7:55	43.5	23/1/25	11:55	51.3		23/1/25	15:55	49.8	
23/1/25	8:00	45.2	23/1/25	12:00	47.2		23/1/25	16:00	49.1	
23/1/25	8:05	52.5	23/1/25	12:05	53.2		23/1/25	16:05	67.4	
23/1/25	8:10	44.3	23/1/25	12:10	51.8		23/1/25	16:10	47.7	
23/1/25	8:15	44.1	23/1/25	12:15	47.7		23/1/25	16:15	45.7	
23/1/25	8:20	46.2	23/1/25	12:20	47.4		23/1/25	16:20	45.7	
23/1/25	8:25	50.5	23/1/25	12:25	46.4		23/1/25	16:25	47.2	
23/1/25	8:30	44.9	23/1/25	12:30	46.1		23/1/25	16:30	45.8	
23/1/25	8:35	45.6	23/1/25	12:35	45.6		23/1/25	16:35	45.5	
23/1/25	8:40	46.8	23/1/25	12:40	53.1		23/1/25	16:40	46.2	
23/1/25	8:45	47.3	23/1/25	12:45	77.2		23/1/25	16:45	48.1	
23/1/25	8:50	47.8	23/1/25	12:50	51.3		23/1/25	16:50	47.5	
23/1/25	8:55	49.7	23/1/25	12:55	49.1		23/1/25	16:55	51.0	
23/1/25	9:00	49.7	23/1/25	13:00	46.7		23/1/25	17:00	45.5	
23/1/25	9:05	49.1	23/1/25	13:05	50.5		23/1/25	17:05	47.3	
23/1/25	9:10	44.5	23/1/25	13:10	49.0		23/1/25	17:10	44.5	
23/1/25	9:15	48.4	23/1/25	13:15	46.5		23/1/25	17:15	55.5	
23/1/25	9:20	47.8	23/1/25	13:20	51.8		23/1/25	17:20	45.2	
23/1/25	9:25	46.9	23/1/25	13:25	46.7		23/1/25	17:25	50.4	
23/1/25	9:30	48.3	23/1/25	13:30	50.8		23/1/25	17:30	60.9	
23/1/25	9:35	46.5	23/1/25	13:35	46.9		23/1/25	17:35	46.3	
23/1/25	9:40	45.6	23/1/25	13:40	48.2		23/1/25	17:40	45.4	
23/1/25	9:45	44.2	23/1/25	13:45	46.9		23/1/25	17:45	44.7	
23/1/25	9:50	45.6	23/1/25	13:50	51.9		23/1/25	17:50	45.6	
23/1/25	9:55	46.0	23/1/25	13:55	46.9		23/1/25	17:55	45.1	
23/1/25	10:00	46.4	23/1/25	14:00	49.4		23/1/25	18:00	53.0	
23/1/25	10:05	48.9	23/1/25	14:05	49.4		23/1/25	18:05	45.7	
23/1/25	10:10	56.9	23/1/25	14:10	47.6		23/1/25	18:10	44.4	
23/1/25	10:15	50.4	23/1/25	14:15	46.9		23/1/25	18:15	45.3	
23/1/25	10:20	47.3	23/1/25	14:20	46.8		23/1/25	18:20	45.6	
23/1/25	10:25	47.8	23/1/25	14:25	50.2		23/1/25	18:25	48.5	
23/1/25	10:30	46.7	23/1/25	14:30	48.0		23/1/25	18:30	51.5	
23/1/25	10:35	48.6	23/1/25	14:35	49.7		23/1/25	18:35	56.5	
23/1/25	10:40	47.0	23/1/25	14:40	50.0		23/1/25	18:40	45.8	
23/1/25	10:45	45.9	23/1/25	14:45	49.2		23/1/25	18:45	49.7	
23/1/25	10:50	45.4	23/1/25	14:50	46.2		23/1/25	18:50	45.7	
23/1/25	10:55	48.7	23/1/25	14:55	49.9		23/1/25	18:55	46.4	
23/1/25	11:00	58.1	23/1/25	15:00	47.3		23/1/25	19:00	45.2	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd									
SITE LOCATION			NM7 EIA Gillman Barracks									
REPORT REFERENCE			20/01/2025 - 27/01/2025									
Start	23/1/25	19:05	Leq12h	47.2					Weighting		A	
End	24/1/25	7:00										
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	
23/1/25	19:05	46.0	50.4	23/1/25	23:05	46.9	45.9	24/1/25	3:05	42.7	43.2	
23/1/25	19:10	45.7		23/1/25	23:10	46.9		24/1/25	3:10	44.0		
23/1/25	19:15	44.9		23/1/25	23:15	47.5		24/1/25	3:15	43.2		
23/1/25	19:20	43.9		23/1/25	23:20	45.9		24/1/25	3:20	44.8		
23/1/25	19:25	46.1		23/1/25	23:25	46.1		24/1/25	3:25	41.9		
23/1/25	19:30	49.9		23/1/25	23:30	46.4		24/1/25	3:30	40.8		
23/1/25	19:35	50.0		23/1/25	23:35	46.0		24/1/25	3:35	41.8		
23/1/25	19:40	51.0		23/1/25	23:40	44.6		24/1/25	3:40	42.0		
23/1/25	19:45	52.2		23/1/25	23:45	44.7		24/1/25	3:45	42.6		
23/1/25	19:50	53.3		23/1/25	23:50	46.0		24/1/25	3:50	43.3		
23/1/25	19:55	54.7		23/1/25	23:55	44.3		24/1/25	3:55	43.2		
23/1/25	20:00	51.7	51.5	23/1/25	0:00	43.6	46.5	24/1/25	4:00	45.7	44.1	
23/1/25	20:05	47.0		24/1/25	0:05	44.5		24/1/25	4:05	44.8		
23/1/25	20:10	51.6		24/1/25	0:10	45.3		24/1/25	4:10	43.0		
23/1/25	20:15	50.0		24/1/25	0:15	45.3		24/1/25	4:15	43.8		
23/1/25	20:20	48.7		24/1/25	0:20	47.5		24/1/25	4:20	42.8		
23/1/25	20:25	47.7		24/1/25	0:25	48.6		24/1/25	4:25	44.8		
23/1/25	20:30	53.2		24/1/25	0:30	48.4		24/1/25	4:30	45.5		
23/1/25	20:35	46.5		24/1/25	0:35	46.1		24/1/25	4:35	45.6		
23/1/25	20:40	55.2		24/1/25	0:40	47.7		24/1/25	4:40	44.0		
23/1/25	20:45	57.1		24/1/25	0:45	47.0		24/1/25	4:45	44.8		
23/1/25	20:50	46.8		24/1/25	0:50	45.0		24/1/25	4:50	44.2		
23/1/25	20:55	47.2	47.5	24/1/25	0:55	44.7	44.0	24/1/25	4:55	42.5	45.6	
23/1/25	21:00	47.2		24/1/25	1:00	44.5		24/1/25	5:00	40.7		
23/1/25	21:05	47.3		24/1/25	1:05	43.8		24/1/25	5:05	41.3		
23/1/25	21:10	47.7		24/1/25	1:10	44.2		24/1/25	5:10	42.0		
23/1/25	21:15	47.2		24/1/25	1:15	47.4		24/1/25	5:15	44.0		
23/1/25	21:20	47.6		24/1/25	1:20	46.8		24/1/25	5:20	47.0		
23/1/25	21:25	48.9		24/1/25	1:25	43.2		24/1/25	5:25	46.1		
23/1/25	21:30	47.0		24/1/25	1:30	43.2		24/1/25	5:30	45.7		
23/1/25	21:35	48.5		24/1/25	1:35	43.8		24/1/25	5:35	48.9		
23/1/25	21:40	47.3		24/1/25	1:40	43.0		24/1/25	5:40	47.5		
23/1/25	21:45	47.2		24/1/25	1:45	42.5		24/1/25	5:45	42.8		
23/1/25	21:50	47.1	46.5	24/1/25	1:50	42.0	43.4	24/1/25	5:50	43.0	48.3	
23/1/25	21:55	47.2		24/1/25	1:55	41.4		24/1/25	5:55	42.5		
23/1/25	22:00	46.1		24/1/25	2:00	42.2		24/1/25	6:00	47.8		
23/1/25	22:05	46.9		24/1/25	2:05	43.8		24/1/25	6:05	47.5		
23/1/25	22:10	46.9		24/1/25	2:10	44.7		24/1/25	6:10	46.6		
23/1/25	22:15	46.5		24/1/25	2:15	45.0		24/1/25	6:15	45.9		
23/1/25	22:20	46.6		24/1/25	2:20	43.9		24/1/25	6:20	44.1		
23/1/25	22:25	45.7		24/1/25	2:25	44.1		24/1/25	6:25	42.8		
23/1/25	22:30	45.9		24/1/25	2:30	44.0		24/1/25	6:30	44.6		
23/1/25	22:35	47.1		24/1/25	2:35	43.0		24/1/25	6:35	47.5		
23/1/25	22:40	47.5		24/1/25	2:40	42.4		24/1/25	6:40	55.0		
23/1/25	22:45	46.6	24/1/25	2:45	42.3	24/1/25		6:45	45.6			
23/1/25	22:50	44.9	24/1/25	2:50	42.1	24/1/25		6:50	46.9			
23/1/25	22:55	45.5	24/1/25	2:55	41.6	24/1/25		6:55	48.2			
23/1/25	23:00	47.2	46.5	24/1/25	3:00	42.8		43.4	24/1/25	7:00		48.2

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM7 EIA Gillman Barracks						
REPORT REFERENCE			20/01/2025 - 27/01/2025						
Start	24/1/25	7:05	Leq12h	54.7	Weighting			A	
End	24/1/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m	
24/1/25	7:05	48.7	24/1/25	11:05	54.3	24/1/25	15:05	48.0	
24/1/25	7:10	46.2	24/1/25	11:10	55.5	24/1/25	15:10	46.9	
24/1/25	7:15	45.0	24/1/25	11:15	54.2	24/1/25	15:15	48.4	
24/1/25	7:20	45.5	24/1/25	11:20	55.5	24/1/25	15:20	47.1	
24/1/25	7:25	44.4	24/1/25	11:25	56.4	24/1/25	15:25	50.8	
24/1/25	7:30	54.8	24/1/25	11:30	56.7	24/1/25	15:30	52.9	
24/1/25	7:35	43.9	24/1/25	11:35	60.0	24/1/25	15:35	52.4	
24/1/25	7:40	46.7	24/1/25	11:40	58.6	24/1/25	15:40	54.2	
24/1/25	7:45	59.6	24/1/25	11:45	58.2	24/1/25	15:45	49.4	
24/1/25	7:50	47.6	24/1/25	11:50	57.7	24/1/25	15:50	47.2	
24/1/25	7:55	52.8	24/1/25	11:55	59.7	24/1/25	15:55	46.7	
24/1/25	8:00	48.8	24/1/25	12:00	55.4	24/1/25	16:00	46.2	
24/1/25	8:05	49.1	24/1/25	12:05	53.5	24/1/25	16:05	47.5	
24/1/25	8:10	49.2	24/1/25	12:10	52.6	24/1/25	16:10	50.6	
24/1/25	8:15	45.2	24/1/25	12:15	52.1	24/1/25	16:15	47.7	
24/1/25	8:20	48.4	24/1/25	12:20	50.8	24/1/25	16:20	49.5	
24/1/25	8:25	57.3	24/1/25	12:25	49.7	24/1/25	16:25	49.5	
24/1/25	8:30	61.3	24/1/25	12:30	50.8	24/1/25	16:30	53.6	
24/1/25	8:35	46.8	24/1/25	12:35	51.5	24/1/25	16:35	55.1	
24/1/25	8:40	52.0	24/1/25	12:40	51.2	24/1/25	16:40	56.6	
24/1/25	8:45	51.0	24/1/25	12:45	51.5	24/1/25	16:45	45.8	
24/1/25	8:50	50.2	24/1/25	12:50	51.0	24/1/25	16:50	45.1	
24/1/25	8:55	45.9	24/1/25	12:55	52.1	24/1/25	16:55	47.5	
24/1/25	9:00	44.7	24/1/25	13:00	55.4	24/1/25	17:00	46.3	
24/1/25	9:05	51.8	24/1/25	13:05	58.4	24/1/25	17:05	48.8	
24/1/25	9:10	49.5	24/1/25	13:10	59.3	24/1/25	17:10	55.4	
24/1/25	9:15	57.0	24/1/25	13:15	55.2	24/1/25	17:15	57.2	
24/1/25	9:20	46.2	24/1/25	13:20	58.9	24/1/25	17:20	59.7	
24/1/25	9:25	48.5	24/1/25	13:25	56.9	24/1/25	17:25	56.0	
24/1/25	9:30	47.5	24/1/25	13:30	57.9	24/1/25	17:30	57.1	
24/1/25	9:35	47.1	24/1/25	13:35	57.4	24/1/25	17:35	47.3	
24/1/25	9:40	44.9	24/1/25	13:40	56.3	24/1/25	17:40	46.0	
24/1/25	9:45	56.3	24/1/25	13:45	53.0	24/1/25	17:45	48.3	
24/1/25	9:50	47.9	24/1/25	13:50	52.0	24/1/25	17:50	51.8	
24/1/25	9:55	45.4	24/1/25	13:55	50.6	24/1/25	17:55	58.2	
24/1/25	10:00	45.0	24/1/25	14:00	54.6	24/1/25	18:00	58.2	
24/1/25	10:05	46.2	24/1/25	14:05	51.6	24/1/25	18:05	60.0	
24/1/25	10:10	48.6	24/1/25	14:10	51.1	24/1/25	18:10	61.7	
24/1/25	10:15	45.2	24/1/25	14:15	49.9	24/1/25	18:15	60.5	
24/1/25	10:20	48.1	24/1/25	14:20	52.1	24/1/25	18:20	61.2	
24/1/25	10:25	49.0	24/1/25	14:25	49.4	24/1/25	18:25	62.0	
24/1/25	10:30	49.1	24/1/25	14:30	48.3	24/1/25	18:30	61.6	
24/1/25	10:35	59.1	24/1/25	14:35	49.0	24/1/25	18:35	59.4	
24/1/25	10:40	52.7	24/1/25	14:40	53.6	24/1/25	18:40	48.8	
24/1/25	10:45	55.2	24/1/25	14:45	53.8	24/1/25	18:45	49.9	
24/1/25	10:50	55.0	24/1/25	14:50	52.1	24/1/25	18:50	56.4	
24/1/25	10:55	55.0	24/1/25	14:55	48.1	24/1/25	18:55	61.0	
24/1/25	11:00	53.3	24/1/25	15:00	47.7	24/1/25	19:00	59.7	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM7 EIA Gillman Barracks								
REPORT REFERENCE			20/01/2025 - 27/01/2025								
Start	24/1/25		19:05	Leq12h		51.6		Weighting		A	
End	25/1/25		7:00								
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
24/1/25	19:05	61.7	57.1	24/1/25	23:05	47.6	47.4	25/1/25	3:05	41.8	44.2
24/1/25	19:10	62.7		24/1/25	23:10	50.6		25/1/25	3:10	41.1	
24/1/25	19:15	59.5		24/1/25	23:15	45.4		25/1/25	3:15	42.3	
24/1/25	19:20	55.9		24/1/25	23:20	45.6		25/1/25	3:20	43.5	
24/1/25	19:25	46.2		24/1/25	23:25	47.2		25/1/25	3:25	40.5	
24/1/25	19:30	51.8		24/1/25	23:30	48.5		25/1/25	3:30	42.9	
24/1/25	19:35	54.3		24/1/25	23:35	47.5		25/1/25	3:35	43.6	
24/1/25	19:40	54.1		24/1/25	23:40	45.7		25/1/25	3:40	44.4	
24/1/25	19:45	53.5		24/1/25	23:45	45.6		25/1/25	3:45	50.2	
24/1/25	19:50	53.2		24/1/25	23:50	47.3		25/1/25	3:50	44.8	
24/1/25	19:55	52.1	57.1	24/1/25	23:55	48.5	46.4	25/1/25	3:55	41.9	43.9
24/1/25	20:00	54.1		24/1/25	0:00	45.4		25/1/25	4:00	43.0	
24/1/25	20:05	57.2		25/1/25	0:05	45.5		25/1/25	4:05	45.5	
24/1/25	20:10	57.6		25/1/25	0:10	45.1		25/1/25	4:10	45.9	
24/1/25	20:15	56.2		25/1/25	0:15	47.0		25/1/25	4:15	44.5	
24/1/25	20:20	56.0		25/1/25	0:20	46.5		25/1/25	4:20	40.7	
24/1/25	20:25	62.5		25/1/25	0:25	46.5		25/1/25	4:25	42.4	
24/1/25	20:30	57.9		25/1/25	0:30	45.0		25/1/25	4:30	43.2	
24/1/25	20:35	54.6		25/1/25	0:35	45.3		25/1/25	4:35	44.7	
24/1/25	20:40	55.0		25/1/25	0:40	44.8		25/1/25	4:40	41.4	
24/1/25	20:45	55.2	53.9	25/1/25	0:45	44.1	47.3	25/1/25	4:45	44.3	45.7
24/1/25	20:50	54.5		25/1/25	0:50	42.7		25/1/25	4:50	41.9	
24/1/25	20:55	55.6		25/1/25	0:55	43.3		25/1/25	4:55	41.8	
24/1/25	21:00	54.7		25/1/25	1:00	51.8		25/1/25	5:00	46.3	
24/1/25	21:05	54.8		25/1/25	1:05	51.4		25/1/25	5:05	45.7	
24/1/25	21:10	54.2		25/1/25	1:10	46.7		25/1/25	5:10	42.9	
24/1/25	21:15	54.6		25/1/25	1:15	46.0		25/1/25	5:15	47.4	
24/1/25	21:20	53.8		25/1/25	1:20	51.8		25/1/25	5:20	47.9	
24/1/25	21:25	54.0		25/1/25	1:25	46.6		25/1/25	5:25	46.7	
24/1/25	21:30	50.2		25/1/25	1:30	42.2		25/1/25	5:30	44.6	
24/1/25	21:35	53.5	48.7	25/1/25	1:35	43.7	48.2	25/1/25	5:35	45.0	49.1
24/1/25	21:40	54.2		25/1/25	1:40	41.9		25/1/25	5:40	46.0	
24/1/25	21:45	54.7		25/1/25	1:45	44.2		25/1/25	5:45	45.3	
24/1/25	21:50	52.4		25/1/25	1:50	49.8		25/1/25	5:50	44.1	
24/1/25	21:55	55.0		25/1/25	1:55	44.2		25/1/25	5:55	43.6	
24/1/25	22:00	53.1		25/1/25	2:00	42.1		25/1/25	6:00	46.0	
24/1/25	22:05	52.2		25/1/25	2:05	41.8		25/1/25	6:05	42.5	
24/1/25	22:10	52.2		25/1/25	2:10	42.4		25/1/25	6:10	41.8	
24/1/25	22:15	50.3		25/1/25	2:15	52.7		25/1/25	6:15	41.9	
24/1/25	22:20	47.7		25/1/25	2:20	48.1		25/1/25	6:20	43.5	
24/1/25	22:25	46.3	48.7	25/1/25	2:25	44.2	48.2	25/1/25	6:25	42.6	49.1
24/1/25	22:30	47.5		25/1/25	2:30	45.9		25/1/25	6:30	49.7	
24/1/25	22:35	50.0		25/1/25	2:35	44.6		25/1/25	6:35	44.5	
24/1/25	22:40	46.2		25/1/25	2:40	44.5		25/1/25	6:40	45.2	
24/1/25	22:45	45.0		25/1/25	2:45	48.0		25/1/25	6:45	45.8	
24/1/25	22:50	45.7		25/1/25	2:50	53.0		25/1/25	6:50	46.1	
24/1/25	22:55	45.6		25/1/25	2:55	48.8		25/1/25	6:55	57.5	
24/1/25	23:00	45.9		25/1/25	3:00	46.1		25/1/25	7:00	49.3	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM7 EIA Gillman Barracks						
REPORT REFERENCE			20/01/2025 - 27/01/2025						
Start	25/1/25	7:05	Leq12h		57.0	Weighting		A	
End	25/1/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m	
25/1/25	7:05	51.2	25/1/25	11:05	49.8	25/1/25	15:05	66.3	
25/1/25	7:10	50.7	25/1/25	11:10	50.8	25/1/25	15:10	61.2	
25/1/25	7:15	49.2	25/1/25	11:15	51.1	25/1/25	15:15	57.7	
25/1/25	7:20	45.8	25/1/25	11:20	50.2	25/1/25	15:20	55.6	
25/1/25	7:25	48.1	25/1/25	11:25	48.4	25/1/25	15:25	54.5	
25/1/25	7:30	45.9	25/1/25	11:30	47.9	25/1/25	15:30	49.4	
25/1/25	7:35	45.6	25/1/25	11:35	48.3	25/1/25	15:35	50.4	
25/1/25	7:40	46.0	25/1/25	11:40	47.5	25/1/25	15:40	57.0	
25/1/25	7:45	45.9	25/1/25	11:45	50.0	25/1/25	15:45	56.0	
25/1/25	7:50	46.1	25/1/25	11:50	49.7	25/1/25	15:50	55.7	
25/1/25	7:55	45.2	25/1/25	11:55	50.0	25/1/25	15:55	55.3	
25/1/25	8:00	45.8	25/1/25	12:00	52.6	25/1/25	16:00	55.7	
25/1/25	8:05	47.7	25/1/25	12:05	51.0	25/1/25	16:05	54.6	
25/1/25	8:10	48.5	25/1/25	12:10	49.7	25/1/25	16:10	51.9	
25/1/25	8:15	46.2	25/1/25	12:15	51.2	25/1/25	16:15	50.0	
25/1/25	8:20	45.3	25/1/25	12:20	49.7	25/1/25	16:20	46.2	
25/1/25	8:25	47.0	25/1/25	12:25	47.8	25/1/25	16:25	46.7	
25/1/25	8:30	48.7	25/1/25	12:30	49.9	25/1/25	16:30	46.5	
25/1/25	8:35	48.1	25/1/25	12:35	50.3	25/1/25	16:35	46.7	
25/1/25	8:40	50.1	25/1/25	12:40	51.3	25/1/25	16:40	52.8	
25/1/25	8:45	45.4	25/1/25	12:45	47.6	25/1/25	16:45	49.6	
25/1/25	8:50	46.4	25/1/25	12:50	48.7	25/1/25	16:50	49.0	
25/1/25	8:55	50.1	25/1/25	12:55	46.8	25/1/25	16:55	48.1	
25/1/25	9:00	48.8	25/1/25	13:00	46.8	25/1/25	17:00	49.2	
25/1/25	9:05	46.0	25/1/25	13:05	47.7	25/1/25	17:05	50.0	
25/1/25	9:10	46.2	25/1/25	13:10	54.6	25/1/25	17:10	46.8	
25/1/25	9:15	46.7	25/1/25	13:15	53.3	25/1/25	17:15	47.4	
25/1/25	9:20	51.4	25/1/25	13:20	52.7	25/1/25	17:20	46.3	
25/1/25	9:25	48.6	25/1/25	13:25	53.0	25/1/25	17:25	48.7	
25/1/25	9:30	48.0	25/1/25	13:30	52.4	25/1/25	17:30	47.8	
25/1/25	9:35	48.3	25/1/25	13:35	51.9	25/1/25	17:35	49.2	
25/1/25	9:40	47.5	25/1/25	13:40	50.8	25/1/25	17:40	48.7	
25/1/25	9:45	49.7	25/1/25	13:45	61.3	25/1/25	17:45	47.4	
25/1/25	9:50	52.6	25/1/25	13:50	63.9	25/1/25	17:50	52.0	
25/1/25	9:55	49.6	25/1/25	13:55	64.8	25/1/25	17:55	49.7	
25/1/25	10:00	49.4	25/1/25	14:00	63.0	25/1/25	18:00	48.5	
25/1/25	10:05	51.2	25/1/25	14:05	72.6	25/1/25	18:05	49.1	
25/1/25	10:10	49.6	25/1/25	14:10	64.4	25/1/25	18:10	49.5	
25/1/25	10:15	52.4	25/1/25	14:15	64.2	25/1/25	18:15	50.0	
25/1/25	10:20	50.1	25/1/25	14:20	69.2	25/1/25	18:20	63.7	
25/1/25	10:25	50.2	25/1/25	14:25	57.1	25/1/25	18:25	50.8	
25/1/25	10:30	52.1	25/1/25	14:30	50.7	25/1/25	18:30	51.1	
25/1/25	10:35	63.1	25/1/25	14:35	48.7	25/1/25	18:35	51.3	
25/1/25	10:40	49.8	25/1/25	14:40	47.6	25/1/25	18:40	53.7	
25/1/25	10:45	47.3	25/1/25	14:45	47.5	25/1/25	18:45	52.5	
25/1/25	10:50	50.8	25/1/25	14:50	55.2	25/1/25	18:50	55.7	
25/1/25	10:55	54.3	25/1/25	14:55	65.2	25/1/25	18:55	56.9	
25/1/25	11:00	51.5	25/1/25	15:00	63.6	25/1/25	19:00	55.5	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM7 EIA Gillman Barracks								
REPORT REFERENCE			20/01/2025 - 27/01/2025								
Start	25/1/25	19:05		Leq12h	50.3			Weighting		A	
End	26/1/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
25/1/25	19:05	56.7	55.6	25/1/25	23:05	47.1	46.1	26/1/25	3:05	43.5	43.5
25/1/25	19:10	57.3		25/1/25	23:10	45.6		26/1/25	3:10	45.4	
25/1/25	19:15	55.3		25/1/25	23:15	45.4		26/1/25	3:15	44.5	
25/1/25	19:20	47.5		25/1/25	23:20	48.7		26/1/25	3:20	44.3	
25/1/25	19:25	47.9		25/1/25	23:25	47.5		26/1/25	3:25	45.2	
25/1/25	19:30	50.5		25/1/25	23:30	46.1		26/1/25	3:30	42.3	
25/1/25	19:35	55.0		25/1/25	23:35	45.8		26/1/25	3:35	43.3	
25/1/25	19:40	57.0		25/1/25	23:40	45.4		26/1/25	3:40	43.4	
25/1/25	19:45	57.6		25/1/25	23:45	44.6		26/1/25	3:45	43.2	
25/1/25	19:50	56.7		25/1/25	23:50	45.1		26/1/25	3:50	42.9	
25/1/25	19:55	57.0	56.8	25/1/25	23:55	44.8	45.7	26/1/25	3:55	40.7	40.9
25/1/25	20:00	56.1		25/1/25	0:00	44.6		26/1/25	4:00	41.2	
25/1/25	20:05	56.8		26/1/25	0:05	46.3		26/1/25	4:05	40.6	
25/1/25	20:10	58.3		26/1/25	0:10	45.7		26/1/25	4:10	40.4	
25/1/25	20:15	58.1		26/1/25	0:15	45.6		26/1/25	4:15	40.6	
25/1/25	20:20	59.3		26/1/25	0:20	46.3		26/1/25	4:20	40.2	
25/1/25	20:25	58.9		26/1/25	0:25	45.1		26/1/25	4:25	42.1	
25/1/25	20:30	56.3		26/1/25	0:30	46.5		26/1/25	4:30	40.2	
25/1/25	20:35	54.8		26/1/25	0:35	48.5		26/1/25	4:35	41.7	
25/1/25	20:40	54.3		26/1/25	0:40	43.9		26/1/25	4:40	42.2	
25/1/25	20:45	54.9	51.9	26/1/25	0:45	44.0	45.9	26/1/25	4:45	40.1	42.4
25/1/25	20:50	55.4		26/1/25	0:50	45.4		26/1/25	4:50	39.8	
25/1/25	20:55	55.6		26/1/25	0:55	45.3		26/1/25	4:55	40.8	
25/1/25	21:00	55.3		26/1/25	1:00	44.1		26/1/25	5:00	40.8	
25/1/25	21:05	55.3		26/1/25	1:05	43.8		26/1/25	5:05	39.5	
25/1/25	21:10	53.3		26/1/25	1:10	43.2		26/1/25	5:10	40.3	
25/1/25	21:15	50.9		26/1/25	1:15	42.8		26/1/25	5:15	42.9	
25/1/25	21:20	52.2		26/1/25	1:20	44.0		26/1/25	5:20	42.2	
25/1/25	21:25	53.7		26/1/25	1:25	47.1		26/1/25	5:25	41.9	
25/1/25	21:30	52.0		26/1/25	1:30	52.3		26/1/25	5:30	42.8	
25/1/25	21:35	52.0	47.4	26/1/25	1:35	45.8	43.6	26/1/25	5:35	42.3	45.0
25/1/25	21:40	50.4		26/1/25	1:40	44.3		26/1/25	5:40	43.4	
25/1/25	21:45	51.2		26/1/25	1:45	43.8		26/1/25	5:45	46.6	
25/1/25	21:50	49.5		26/1/25	1:50	44.3		26/1/25	5:50	41.2	
25/1/25	21:55	47.6		26/1/25	1:55	43.2		26/1/25	5:55	41.0	
25/1/25	22:00	47.9		26/1/25	2:00	42.2		26/1/25	6:00	39.8	
25/1/25	22:05	47.6		26/1/25	2:05	42.5		26/1/25	6:05	40.9	
25/1/25	22:10	47.8		26/1/25	2:10	44.1		26/1/25	6:10	45.3	
25/1/25	22:15	48.6		26/1/25	2:15	43.0		26/1/25	6:15	41.0	
25/1/25	22:20	47.8		26/1/25	2:20	42.7		26/1/25	6:20	42.5	
25/1/25	22:25	47.1	47.4	26/1/25	2:25	46.2	43.6	26/1/25	6:25	42.3	
25/1/25	22:30	46.5		26/1/25	2:30	43.1		26/1/25	6:30	43.5	
25/1/25	22:35	46.6		26/1/25	2:35	44.6		26/1/25	6:35	43.2	
25/1/25	22:40	47.5		26/1/25	2:40	44.9		26/1/25	6:40	44.8	
25/1/25	22:45	48.4		26/1/25	2:45	41.4		26/1/25	6:45	48.2	
25/1/25	22:50	47.7		26/1/25	2:50	45.1		26/1/25	6:50	44.3	
25/1/25	22:55	46.0		26/1/25	2:55	42.0		26/1/25	6:55	46.7	
25/1/25	23:00	45.6		26/1/25	3:00	40.7		26/1/25	7:00	48.8	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM7 EIA Gillman Barracks						
REPORT REFERENCE			20/01/2025 - 27/01/2025						
Start	26/1/25	7:05	Leq12h	63.4	Weighting			A	
End	26/1/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m	
26/1/25	7:05	50.3	26/1/25	11:05	50.5	26/1/25	15:05	50.5	
26/1/25	7:10	49.5	26/1/25	11:10	50.2	26/1/25	15:10	52.9	
26/1/25	7:15	45.2	26/1/25	11:15	49.0	26/1/25	15:15	49.9	
26/1/25	7:20	44.3	26/1/25	11:20	49.5	26/1/25	15:20	52.0	
26/1/25	7:25	44.7	26/1/25	11:25	50.4	26/1/25	15:25	48.4	
26/1/25	7:30	44.1	26/1/25	11:30	46.9	26/1/25	15:30	49.1	
26/1/25	7:35	44.0	26/1/25	11:35	49.3	26/1/25	15:35	50.0	
26/1/25	7:40	43.8	26/1/25	11:40	48.9	26/1/25	15:40	47.7	
26/1/25	7:45	43.2	26/1/25	11:45	49.8	26/1/25	15:45	49.5	
26/1/25	7:50	44.4	26/1/25	11:50	48.8	26/1/25	15:50	45.7	
26/1/25	7:55	45.1	26/1/25	11:55	48.1	26/1/25	15:55	50.0	
26/1/25	8:00	43.9	26/1/25	12:00	50.3	26/1/25	16:00	49.0	
26/1/25	8:05	43.4	26/1/25	12:05	52.1	26/1/25	16:05	47.0	
26/1/25	8:10	45.0	26/1/25	12:10	49.6	26/1/25	16:10	46.2	
26/1/25	8:15	44.0	26/1/25	12:15	50.6	26/1/25	16:15	47.0	
26/1/25	8:20	46.8	26/1/25	12:20	49.0	26/1/25	16:20	48.0	
26/1/25	8:25	44.4	26/1/25	12:25	49.3	26/1/25	16:25	48.9	
26/1/25	8:30	46.6	26/1/25	12:30	50.0	26/1/25	16:30	49.4	
26/1/25	8:35	47.9	26/1/25	12:35	50.4	26/1/25	16:35	49.8	
26/1/25	8:40	46.7	26/1/25	12:40	52.0	26/1/25	16:40	46.9	
26/1/25	8:45	46.9	26/1/25	12:45	51.1	26/1/25	16:45	46.4	
26/1/25	8:50	46.7	26/1/25	12:50	64.9	26/1/25	16:50	47.7	
26/1/25	8:55	48.4	26/1/25	12:55	51.8	26/1/25	16:55	47.2	
26/1/25	9:00	48.0	26/1/25	13:00	51.6	26/1/25	17:00	53.0	
26/1/25	9:05	48.8	26/1/25	13:05	50.9	26/1/25	17:05	54.5	
26/1/25	9:10	51.2	26/1/25	13:10	53.2	26/1/25	17:10	71.6	
26/1/25	9:15	52.6	26/1/25	13:15	51.0	26/1/25	17:15	75.7	
26/1/25	9:20	51.8	26/1/25	13:20	49.8	26/1/25	17:20	76.3	
26/1/25	9:25	51.7	26/1/25	13:25	53.5	26/1/25	17:25	73.5	
26/1/25	9:30	49.5	26/1/25	13:30	51.7	26/1/25	17:30	75.0	
26/1/25	9:35	48.2	26/1/25	13:35	51.1	26/1/25	17:35	75.7	
26/1/25	9:40	65.7	26/1/25	13:40	49.5	26/1/25	17:40	74.8	
26/1/25	9:45	50.0	26/1/25	13:45	48.3	26/1/25	17:45	72.7	
26/1/25	9:50	46.3	26/1/25	13:50	48.0	26/1/25	17:50	69.7	
26/1/25	9:55	44.4	26/1/25	13:55	48.5	26/1/25	17:55	73.5	
26/1/25	10:00	46.1	26/1/25	14:00	48.7	26/1/25	18:00	71.6	
26/1/25	10:05	46.5	26/1/25	14:05	48.3	26/1/25	18:05	67.7	
26/1/25	10:10	48.0	26/1/25	14:10	49.0	26/1/25	18:10	63.7	
26/1/25	10:15	49.5	26/1/25	14:15	50.2	26/1/25	18:15	65.0	
26/1/25	10:20	50.0	26/1/25	14:20	51.3	26/1/25	18:20	64.1	
26/1/25	10:25	48.7	26/1/25	14:25	49.6	26/1/25	18:25	62.1	
26/1/25	10:30	49.8	26/1/25	14:30	48.9	26/1/25	18:30	59.2	
26/1/25	10:35	50.7	26/1/25	14:35	48.6	26/1/25	18:35	54.9	
26/1/25	10:40	51.8	26/1/25	14:40	51.0	26/1/25	18:40	53.1	
26/1/25	10:45	47.9	26/1/25	14:45	49.8	26/1/25	18:45	54.5	
26/1/25	10:50	49.8	26/1/25	14:50	48.0	26/1/25	18:50	54.6	
26/1/25	10:55	51.1	26/1/25	14:55	47.0	26/1/25	18:55	52.9	
26/1/25	11:00	52.2	26/1/25	15:00	49.2	26/1/25	19:00	51.5	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM7 EIA Gillman Barracks								
REPORT REFERENCE			20/01/2025 - 27/01/2025								
Start	26/1/25		19:05	Leq12h		61.4		Weighting		A	
End	27/1/25		7:00								
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
26/1/25	19:05	50.2	69.2	26/1/25	23:05	46.9	46.9	27/1/25	3:05	45.5	44.4
26/1/25	19:10	48.8		26/1/25	23:10	47.0		27/1/25	3:10	46.2	
26/1/25	19:15	48.5		26/1/25	23:15	47.6		27/1/25	3:15	45.5	
26/1/25	19:20	49.1		26/1/25	23:20	47.4		27/1/25	3:20	45.2	
26/1/25	19:25	48.9		26/1/25	23:25	47.0		27/1/25	3:25	44.6	
26/1/25	19:30	65.6		26/1/25	23:30	47.3		27/1/25	3:30	43.5	
26/1/25	19:35	60.9		26/1/25	23:35	46.8		27/1/25	3:35	44.0	
26/1/25	19:40	69.6		26/1/25	23:40	46.0		27/1/25	3:40	44.1	
26/1/25	19:45	70.1		26/1/25	23:45	45.9		27/1/25	3:45	43.6	
26/1/25	19:50	75.5		26/1/25	23:50	45.9		27/1/25	3:50	43.3	
26/1/25	19:55	69.6	68.7	26/1/25	23:55	45.7	47.4	27/1/25	3:55	42.8	43.5
26/1/25	20:00	74.8		26/1/25	0:00	48.6		27/1/25	4:00	43.5	
26/1/25	20:05	74.7		27/1/25	0:05	49.8		27/1/25	4:05	42.5	
26/1/25	20:10	75.0		27/1/25	0:10	48.2		27/1/25	4:10	45.0	
26/1/25	20:15	72.3		27/1/25	0:15	47.6		27/1/25	4:15	45.6	
26/1/25	20:20	66.9		27/1/25	0:20	46.3		27/1/25	4:20	45.2	
26/1/25	20:25	63.3		27/1/25	0:25	46.2		27/1/25	4:25	43.5	
26/1/25	20:30	61.3		27/1/25	0:30	47.9		27/1/25	4:30	43.4	
26/1/25	20:35	57.3		27/1/25	0:35	47.3		27/1/25	4:35	43.7	
26/1/25	20:40	56.5		27/1/25	0:40	47.0		27/1/25	4:40	40.7	
26/1/25	20:45	55.5	56.8	27/1/25	0:45	47.4	45.0	27/1/25	4:45	41.8	45.6
26/1/25	20:50	53.1		27/1/25	0:50	46.7		27/1/25	4:50	43.6	
26/1/25	20:55	51.7		27/1/25	0:55	45.8		27/1/25	4:55	41.8	
26/1/25	21:00	52.3		27/1/25	1:00	46.4		27/1/25	5:00	42.0	
26/1/25	21:05	51.0		27/1/25	1:05	46.1		27/1/25	5:05	42.4	
26/1/25	21:10	50.5		27/1/25	1:10	45.5		27/1/25	5:10	41.5	
26/1/25	21:15	58.0		27/1/25	1:15	45.7		27/1/25	5:15	43.4	
26/1/25	21:20	62.8		27/1/25	1:20	45.1		27/1/25	5:20	42.8	
26/1/25	21:25	61.7		27/1/25	1:25	44.9		27/1/25	5:25	47.7	
26/1/25	21:30	58.8		27/1/25	1:30	45.6		27/1/25	5:30	48.3	
26/1/25	21:35	52.7	48.8	27/1/25	1:35	44.1	44.9	27/1/25	5:35	45.7	48.4
26/1/25	21:40	51.0		27/1/25	1:40	44.9		27/1/25	5:40	42.7	
26/1/25	21:45	50.2		27/1/25	1:45	45.7		27/1/25	5:45	43.2	
26/1/25	21:50	51.0		27/1/25	1:50	43.7		27/1/25	5:50	44.0	
26/1/25	21:55	50.0		27/1/25	1:55	44.1		27/1/25	5:55	46.5	
26/1/25	22:00	49.4		27/1/25	2:00	43.9		27/1/25	6:00	49.6	
26/1/25	22:05	48.7		27/1/25	2:05	45.3		27/1/25	6:05	51.0	
26/1/25	22:10	50.5		27/1/25	2:10	43.7		27/1/25	6:10	49.8	
26/1/25	22:15	51.1		27/1/25	2:15	45.2		27/1/25	6:15	48.5	
26/1/25	22:20	48.4		27/1/25	2:20	44.8		27/1/25	6:20	47.2	
26/1/25	22:25	48.7	48.8	27/1/25	2:25	44.8	44.9	27/1/25	6:25	46.3	48.4
26/1/25	22:30	48.0		27/1/25	2:30	45.6		27/1/25	6:30	46.7	
26/1/25	22:35	48.1		27/1/25	2:35	44.5		27/1/25	6:35	45.9	
26/1/25	22:40	48.5		27/1/25	2:40	44.4		27/1/25	6:40	47.9	
26/1/25	22:45	48.8		27/1/25	2:45	44.8		27/1/25	6:45	47.2	
26/1/25	22:50	47.9		27/1/25	2:50	45.2		27/1/25	6:50	47.5	
26/1/25	22:55	47.9		27/1/25	2:55	44.6		27/1/25	6:55	49.5	
26/1/25	23:00	47.4		27/1/25	3:00	45.1		27/1/25	7:00	50.2	

CONFIDENTIAL

BASELINE NOISE SURVEY REPORT
NOISE MONITORING ENVIRONMENTAL WORK

REPORT REFERENCE NO: - 25021308/nms/ch2m/NM8GB/NM8

For

CH2M HILL SINGAPORE PTE LTD
150 Beach Road, Gateway West 34th Floor, Singapore 189720

Project Location:
NM8 EIA Gillman Barracks

Attention:
Ms Alicia Wong

Project Title.:
Baseline Noise Survey @ NM8 EIA Gillman Barracks

Monitoring Location:
Gillman Barracks

Date of Monitoring:
20 January 2025 - 27 January 2025

Date of Report:
13 February 2025

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	TABLE OF CONTENT	PAGE
1.0	INTRODUCTION	3
2.0	NOISE SURVEY CONDITION	3
3.0	INSTRUMENTS	4
4.0	NOISE SURVEY TERMS	5
5.0	SURVEYING LOCATIONS	6
6.0	NOISE SURVEY RESULTS	7
7.0	SUMMARY	12
8.0	CONFIRMATION	12
	APPENDIX	
	APPENDIX A: INSTRUMENT LAYOUT PLAN	13
	APPENDIX B: NEA CONSTRUCTION NOISE CONTROL GUIDELINE	14
	APPENDIX C: NOISE MONITORING OFFICER CERTIFICATES	15
	APPENDIX D: INSTRUMENT CALIBRATION CERTIFICATES	17
	APPENDIX E: NOISE DATA	19

1.0 INTRODUCTION

ENSSCOM PTE LTD was commissioned by:

CH2M HILL Singapore Pte Ltd
150 Beach Road, Gateway West 34th Floor, Singapore 189720

The purpose of this survey was to assess the current acoustical environment to establish the baseline background noise level generated before start of construction activities for
Project Title - Baseline Noise Survey @ NM8 EIA Gillman Barracks

The survey is conducted in accordance to the Construction Noise control Guideline on NEA's permissible noise levels for construction sites and industrial premises.

2.0 NOISE SURVEY CONDITION

Report Reference No: 25021308/nms/ch2m/NM8GB/NM8

Date of Report: 13-Feb-2025

Survey On: 20-Jan-2025 (0700hrs) to 27-Jan-2025 (0700hrs)

Operating Condition of Site: All operations were under normal conditions during the noise survey. Construction activities have not begun during period of noise monitoring.

Noise survey was conducted using accepted standard procedures and appropriate sound measuring equipment, which is properly calibrated to ensure accuracy.

All noise measurements were made in terms of A-weighted equivalent continuous sound pressure level in LAeq,T over a period of time T. For example, LAeq,5min are the equivalent sound pressure level measured over a 5-minutes time.

Noise survey was conducted for a full continuous twenty-four (24) hours, Seven (7) days, for **One (1) monitoring points/location**. The noise levels emitted were monitored accordingly and recorded.

The survey is conducted by qualified noise monitoring personnel and reference to Appendix C for their certificate.

3.0 INSTRUMENTS

Monitoring instrument was positioned at between 1.8 meters to 3 meters in height from the floor (Ground Level), Mid Level (5 – 6 storey building height) Or High Level (Roof Level). Overall noise distribution was fairly homogenous throughout the duration of noise survey.

Sound Level Meter used complies and conform to the minimum requirements of a Type 1/Class 1 instrument specified in the International Electrotechnical Commission (IEC) publications of 60651 and 60804.

Before and after the noise measurements, the sound level meter is calibrated to verify the accuracy of the instrument.

3.1 Sound Level Meters

CIRRUS RESEARCH plc, Model: CR191SG
Class 1 Data Logging Sound Level Meter
Serial Number: **G078549**

3.2 Acoustic Calibrator

CIRRUS RESEARCH plc, Model: CR515
Acoustic Calibrator
Serial Number: **60614**

Acoustic Pressure level:	94.01 dB	(reference 20uPa)
Step +20dB:	113.93 dB	
Nominal Frequency:	992 Hz	

The calibration certificate of the monitoring instrument can be found in Appendix D

4.0 NOISE SURVEY TERMS

- 4.1 A Weighting
A standard weighting of the audible frequencies designed to reflect the response of the human ear to noise.
- 4.2 Acoustic Calibrator
An instrument that provides a reference noise source that is used to calibrate and check the performance of a Sound Level Meter.
- 4.3 Broadband
Noise Measurements using parameters, which include all the audible noise
- 4.4 dB(A)
Decibels A Weighted
- 4.5 Decibel (dB)
The units of sound level and noise exposure measurement
- 4.6 Fast Time Weighting
A standard time weighting applied by the Sound Level Meter
- 4.7 IEC 60651:1979
The International Standard for Sound Level Meters
- 4.8 IEC 60804:1984
The International Standard for Integrating & Integrating-Averaging Sound Level Meters
- 4.9 IEC 61260:1995
The International Standard for 1:1 Octave & 1:3 Octave Band Filters
- 4.10 IEC 61672-1:2003
The International Standard for Sound Level Meter and Integrating Averaging Sound Level Meters that replaces both IEC 60651 and IEC 60804
- 4.11 Integrating Averaging Sound Level Meter
A Sound Level Meter which accumulates the total sound energy over a measurement period and calculates an average
- 4.12 LAeq,t
Equivalent continuous sound pressure level. A measure of the average sound pressure level during a period of time, t, in dB with 'A' weighting.
- 4.13 Sound Level
Sound Pressure Level with a Frequency weighting, such as dB(A)
- 4.14 Sound Level Meter
An instrument for measuring various noise parameters
- 4.15 Sound Pressure Level, SPL.
The basic measure of noise loudness, expressed in decibels

6.0 NOISE SURVEY RESULTS

The noise survey was carried out in accordance with the Environmental Pollution Control Act (Chapter 94A, Section 77(1)), Environmental Pollution Control (Control of Noise at Construction Sites) Regulations, 1999.

Monday to Saturday

Types of Affected Building	Maximum Noise Level Permitted for construction sites (reckoned as an equivalent continuous noise level over a period of 5 minutes) in decibel (A)		
	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospitals, Schools, Institutions of Higher Learning, Homes for aged, Sick, etc	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	60 (LEQ 12hr)	50 (LEQ 12hr)	
(b) Residential Buildings Located less than 150m from the construction site where noise is being emitted	90 (Leq 5min)	70 (Leq 5min)	55 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 1hr)	55 (LEQ 1hr)
(c) Buildings (other than those in Paragraphs (a) and (b) above	90 (Leq 5min)	70 (Leq 5min)	70 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 12hr)	

Sunday and Public Holidays

Types of Affected Building	Maximum Noise Level Permitted for construction sites (reckoned as an equivalent continuous noise level over a period of 5 minutes) in decibel (A)		
	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospitals, Schools, Institutions of Higher Learning, Homes for aged, Sick, etc	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	60 (LEQ 12hr)	50 (LEQ 12hr)	
(b) Residential Buildings Located less than 150m from the construction site where noise is being emitted	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	75 (LEQ 12hr)	-	-
(c) Buildings (other than those in Paragraphs (a) and (b) above	90 (Leq 5min)	70 (Leq 5min)	70 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 12hr)	

Note:

No Work Rule on Sundays and Public Holidays

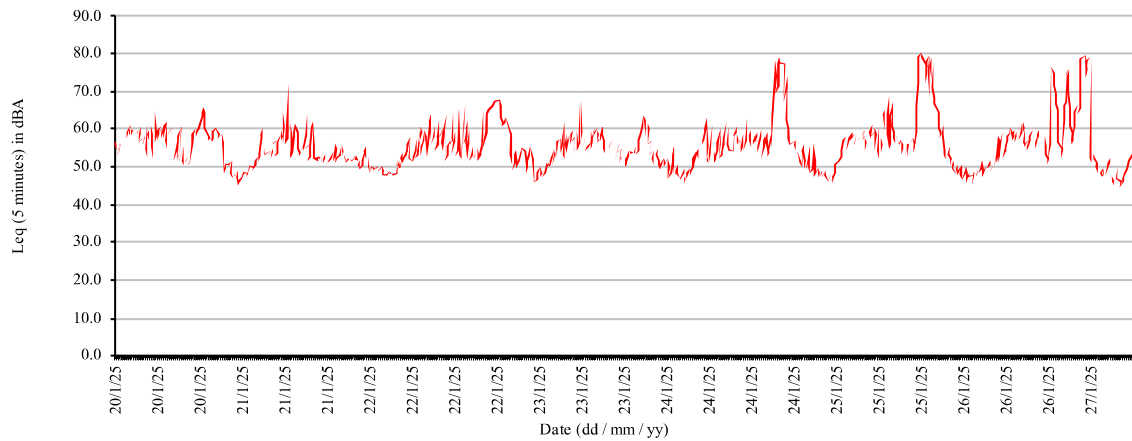
In addition to the settings of the permissible noise limits, NEA has also implemented a rule on prohibition of work on Sundays and Public Holidays (PH) for construction sites located within 150m away from residential premises and noise sensitive premises as follows:

Site Established from 1 September 2011. No work is allowed from 10.00pm on Sat/eve of PH to 7.00am on the following Mon/day after the PH. (For details, please refer to Appendix B)

Survey Results for monitoring point 1 from period : 20-Jan-2025 to 27-Jan-2025

Location : Gillman Barracks

Leq (5 Minutes) Plotted Against Date of Monitoring



Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 5 min in Leq db(A)	Maximum Noise Level permitted for construction sites Leq 5min db (A)
No. NM-8		From		To			
Gillman Barracks	Mon	20/1/25	0700	20/1/25	1900	64.4	90
	Mon	20/1/25	1900	20/1/25	2200	65.4	70
	Mon/Tue	20/1/25	2200	21/1/25	0700	60.6	70
	Tue	21/1/25	0700	21/1/25	1900	71.8	90
	Tue	21/1/25	1900	21/1/25	2200	56.0	70
	Tue/Wed	21/1/25	2200	22/1/25	0700	55.2	70
	Wed	22/1/25	0700	22/1/25	1900	66.9	90
	Wed	22/1/25	1900	22/1/25	2200	68.0	70
	Wed/Thu	22/1/25	2200	23/1/25	0700	68.0	70
	Thu	23/1/25	0700	23/1/25	1900	69.7	90
	Thu	23/1/25	1900	23/1/25	2200	60.8	70
	Thu/Fri	23/1/25	2200	24/1/25	0700	64.1	70
	Fri	24/1/25	0700	24/1/25	1900	63.0	90
	Fri	24/1/25	1900	24/1/25	2200	78.8	70
	Fri/Sat	24/1/25	2200	25/1/25	0700	61.9	70
	Sat	25/1/25	0700	25/1/25	1900	70.7	90
	Sat	25/1/25	1900	25/1/25	2200	80.4	70
	Sat/Sun	25/1/25	2200	26/1/25	0700	71.1	70
	Sun	26/1/25	0700	26/1/25	1900	76.7	90
	Sun	26/1/25	1900	26/1/25	2200	76.1	70
Sun/Mon	26/1/25	2200	27/1/25	0700	79.6	70	

Table 6.1 Summary of Noise Monitoring Results at Maximum Equivalent of LEQ 5 min

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 1 hr in Leq db(A) for the specific period	Maximum Noise Level permitted for construction sites Leq 1 hr db (A)
No. NM-8		From		To			
Gillman Barracks	Mon	20/1/25	1900	20/1/25	2200	63.2	-
	Mon	20/1/25	2200	21/1/25	0700	59.5	-
	Tue	21/1/25	1900	21/1/25	2200	53.4	-
	Tue	21/1/25	2200	22/1/25	0700	52.7	-
	Wed	22/1/25	1900	22/1/25	2200	67.0	-
	Wed	22/1/25	2200	23/1/25	0700	65.8	-
	Thu	23/1/25	1900	23/1/25	2200	57.4	-
	Thu	23/1/25	2200	24/1/25	0700	61.8	-
	Fri	24/1/25	1900	24/1/25	2200	76.7	-
	Fri	24/1/25	2200	25/1/25	0700	57.3	-
	Sat	25/1/25	1900	25/1/25	2200	78.5	-
	Sat	25/1/25	2200	26/1/25	0700	66.0	-
	Sun	26/1/25	1900	26/1/25	2200	70.4	-
	Sun	26/1/25	2200	27/1/25	0700	77.4	-

Table 6.2 Summary of Noise Monitoring Results at Maximum Equivalent of LEQ 1 hr

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 12 hr in Leq db(A)	Maximum Noise Level permitted for construction sites Leq 12 hr db (A)
No. NM-8		From		To			
Gillman Barracks	Mon	20/1/25	0700	20/1/25	1900	58.2	75
	Mon	20/1/25	1900	21/1/25	0700	57.3	65
	Tue	21/1/25	0700	21/1/25	1900	57.5	75
	Tue	21/1/25	1900	22/1/25	0700	51.2	65
	Wed	22/1/25	0700	22/1/25	1900	57.5	75
	Wed	22/1/25	1900	23/1/25	0700	60.8	65
	Thu	23/1/25	0700	23/1/25	1900	57.4	75
	Thu	23/1/25	1900	24/1/25	0700	54.8	65
	Fri	24/1/25	0700	24/1/25	1900	56.9	75
	Fri	24/1/25	1900	25/1/25	0700	69.3	65
	Sat	25/1/25	0700	25/1/25	1900	59.5	75
	Sat	25/1/25	1900	25/1/25	0700	71.8	65
	Sun	25/1/25	0700	26/1/25	1900	64.7	75
	Sun	26/1/25	1900	27/1/25	0700	70.3	65

Table 6.3 Summary of Noise Monitoring Results at LEQ 12 hr

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over specific period in Leq db(A)	Maximum Noise Level permitted for construction sites in db (A)
No. NM-8		From		To			
Gillman Barracks	Mon	20/1/25	700	20/1/25	1900	58.2	90(Leq5min) 75 (Leq12hrs)
	Mon	20/1/25	1900	20/1/25	2200	60.8	70 (Leq5min)
	Mon	20/1/25	2200	21/1/25	0000	59.3	70 (Leq5min)
	Tue	21/1/25	0000	21/1/25	700	52.1	70 (Leq5min)
	Tue	21/1/25	700	21/1/25	1900	57.5	90(Leq5min) 75 (Leq12hrs)
	Tue	21/1/25	1900	21/1/25	2200	52.7	70 (Leq5min)
	Tue	21/1/25	2200	22/1/25	0000	51.3	70 (Leq5min)
	Wed	22/1/25	0000	22/1/25	700	50.3	70 (Leq5min)
	Wed	22/1/25	700	22/1/25	1900	57.5	90(Leq5min) 75 (Leq12hrs)
	Wed	22/1/25	1900	22/1/25	2200	64.1	70 (Leq5min)
	Wed	22/1/25	2200	23/1/25	0000	64.3	70 (Leq5min)
	Thu	23/1/25	0000	23/1/25	700	52.3	70 (Leq5min)
	Thu	23/1/25	700	23/1/25	1900	57.4	90(Leq5min) 75 (Leq12hrs)
	Thu	23/1/25	1900	23/1/25	2200	55.1	70 (Leq5min)
	Thu	23/1/25	2200	24/1/25	0000	59.7	70 (Leq5min)
	Fri	24/1/25	0000	24/1/25	700	50.4	70 (Leq5min)
	Fri	24/1/25	700	24/1/25	1900	56.9	90(Leq5min) 75 (Leq12hrs)
	Fri	24/1/25	1900	24/1/25	2200	75.2	70 (Leq5min)
	Fri	24/1/25	2200	25/1/25	0000	56.2	70 (Leq5min)
	Sat	25/1/25	0000	25/1/25	700	50.4	70 (Leq5min)
	Sat	25/1/25	700	25/1/25	1900	59.5	90(Leq5min) 75 (Leq12hrs)
	Sat	25/1/25	1900	25/1/25	2200	77.6	70 (Leq5min)
	Sat	25/1/25	2200	26/1/25	0000	63.7	70 (Leq5min)
	Sun	26/1/25	0000	26/1/25	700	49.7	70 (Leq5min)
	Sun	26/1/25	700	26/1/25	1900	64.7	90(Leq5min) 75 (Leq12hrs)
	Sun	26/1/25	1900	26/1/25	2200	68.0	70 (Leq5min)
	Sun	26/1/25	2200	26/1/25	0000	77.4	70 (Leq5min)
	Mon	27/1/25	0000	27/1/25	0700	49.6	70 (Leq5min)

Table 6.4 Summary of Noise Monitoring Results at Continuous Equivalent of LEQ for specific period

7.0 SUMMARY

The purpose of this survey was to assess the current acoustical environment to establish the background noise level generated over One (1) monitoring point/location for continuous twenty-four (24) hours and seven (7) days noise monitoring at the boundary of the project site for Project Title

Baseline Noise Survey @ NM8 EIA Gillman Barracks

The location of the nearest Noise Receiver (NSR) :

Gillman Barracks

The findings show that,

The ambience noise at NSR Point NM8 at Gillman Barracks Area, falls within the Permissible limits stated in the NEA Guideline on construction noise control for most of the time period daily.

* Refer to Appendix E for full noise data report.

We recommend submitting an appeal to NEA to adjust the Noise Limit as in table 6.5 for NSR Point NM8 at Gillman Barracks Area

Background Noise Correction Factor

The adjusted value for the maximum noise level shall be obtained by adding the correction factor corresponding to the difference between the maximum permitted level and the background noise level, set out in the Table below, to the higher of the 2 noise levels.

Difference between 2 noise levels in decibels (A)	Correction factor in decibels (A)
a) Below 2	3
b) 2 to less than 4	2
c) 4 to less than 10	1
d) 10 and above	NIL

Proposed New Permissible Noise Level for monitoring point: **Gillman Barracks**

Period	Noise Limit	*Equivalent continuous sound level over period in Leq dB(A) - Background Noise	Difference	Correction Factor	Proposed Adjusted New Permissible Level (dBA)
7am to 7pm (Monday to Saturday)	90 (Leq 5min)	59.5	30.5	0	90 (Leq 5min)
	75 (Leq 12hr)	59.5	15.5	0	75 (Leq 12hr)
7pm to 10pm (Monday to Saturday)	70 (Leq 5min)	77.6	-7.6	1	78.6 (Leq 5min)
10pm to 12am (Monday to Saturday)	70 (Leq 5min)	64.3	5.7	1	71 (Leq 5min)
12am to 7am (Monday to Saturday)	70 (Leq 5min)	52.3	17.7	0	70 (Leq 5min)
7pm to 7am (Monday to Saturday)	65 (Leq 12hrs)	71.8	-6.8	1	72.8 (Leq 12hr)
7am to 7pm (Sunday)	90 (Leq 5min)	64.7	25.3	0	90 (Leq 5min)
	75 (Leq 12hr)	64.7	10.3	0	75 (Leq 12hr)
7pm to 10pm (Sunday)	70 (Leq 5min)	68.0	2.0	2	72 (Leq 5min)
10pm to 12am (Sunday)	70 (Leq 5min)	77.4	-7.4	1	78.4 (Leq 5min)
12am to 7am (Sunday)	70 (Leq 5min)	49.7	20.3	0	70 (Leq 5min)
7pm to 7am (Sunday)	65 (Leq 12hrs)	70.3	-5.3	1	71.3 (Leq 12hr)

* The highest equivalent continuous sound level in Leq dB(A) between Monday to Saturday is taken for calculating the adjusted new permissible level for each period.

Table 6.5 Proposed New Permissible Noise Level

8.0 CONFIRMATION

We, ENSSCOM PTE LTD, certify that the information given is correct. The noise survey was conducted for

CH2M HILL Singapore Pte Ltd

150 Beach Road, Gateway West 34th Floor, Singapore 189720

To carry out One (1) monitoring points/locations for continuous twenty-four (24) hours and seven (7) days noise monitoring at the boundary of the project site for Project Title

Baseline Noise Survey @ NM8 EIA Gillman Barracks

was carried out as described in this report and the results resented herein.

Date of Monitoring:

From 20/1/25 (0700hrs) to 27/1/25 (0700hrs)

Hoo Hian Choon (Mr)
Noise Monitoring Consultant
13-Feb-2025

APPENDIX A : INSTRUMENT LAYOUT PLAN



APPENDIX B: NEA CONSTRUCTION NOISE CONTROL GUIDELINE

Construction Noise Control

Maximum Permissible Noise Levels for Construction Work Commenced on or after 1st October 2007

Noise Regulation

Mondays to Saturdays

Types of affected buildings	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospital, schools, institutions of higher learning, homes for aged sick, etc.	60 dBA (Leq* 12 hrs)	50 dBA (Leq 12 hrs)	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(b) Residential buildings located less than 150m from the construction site	75 dBA (Leq 12 hrs)	65 dBA (Leq 1 hr)	55 dBA (Leq 1 hr)
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)
(c) Buildings other than those in (a) and (b) above	75 dBA (Leq 12 hrs)	65 dBA (Leq 12 hrs)	
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	

Sundays and Public Holidays

Types of affected buildings	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospital, schools, institutions of higher learning, homes for aged sick, etc.	60 dBA (Leq* 12 hrs)	50 dBA (Leq 12 hrs)	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(b) Residential buildings located less than 150m from the construction site	75 dBA (Leq 12 hrs)	-	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(c) Buildings other than those in (a) and (b) above	75 dBA (Leq 12 hrs)	65 dBA (Leq 12 hrs)	
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	

APPENDIX C: NOISE MONITORING OFFICER CERTIFICATES

S/No: 02/20/159



Acoustical Laboratory Pte Ltd
CENTRE FOR ENVIRONMENTAL CONSULTATION AND TRAINING

Certificate of Competence

This is to certify that

Hoo Hian Choon

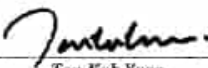
has attended and passed an examination
for a course on

Noise Monitoring

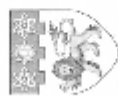
held between 22nd May 2002 and 24th May 2002

Acoustical Laboratory is approved by the Ministry of
Labour as a Training Centre for the
Noise Monitoring Course




Tan Kok Yang
Course Co-ordinator


Koh L. B.
Managing Director



NANYANG
TECHNOLOGICAL
UNIVERSITY

This is to certify that

Hoo Hian Choon

has successfully completed the 2½-day course

Industrial Noise Control

A handwritten signature in black ink, reading "Seah Ben Han".

Seah Ben Han
Director
Centre for Continuing Education

27 August 2010

APPENDIX D: INSTRUMENT CALIBRATION CERTIFICATES



Certificate of Calibration

Equipment Details

Instrument Manufacturer	Cirrus Research plc
Instrument Type	CR 191 SG
Description	Sound Level Meter
Serial Number	01678549

Calibration Procedure

The instrument detailed above have been calibrated to the published test and calibration data as detailed in the Instrument Fund Book, using the techniques recommended in the latest revisions of the International Standards: IEC 61672-1:2013, IEC 61672-1:2003, IEC 61671:2005, IEC 60944:2001, IEC 61268:1995, IEC 60942:2003, IEC 60342:1997, IEC 61221:1995, ANSI S1.1-4:1983, ANSI S1.11-1:2004 and ANSI S1.43:1997 where applicable. Sound Level Meter A1 Calibration procedures were carried out by substituting the microphone signals with a suitable electrical signal, apart from the final acoustic calibration.

Calibration Traceability

The instrument detailed above was calibrated against the calibration laboratory standards held by Cirrus Research plc. These are traceable to International Standards (SI Units). The standards are:

Field Acoustic Calibration	J & K 1225	Serial Number	0641343	Calibration Ref	551565190588343
Microphone Type	V K 124	Serial Number	114953B	Calibration Ref	209903

Calibrated by

Calibration Date

3 July 2024

Calibration Certificate Number

248116

This Calibration Certificate is valid for 12 months from the date above

Cirrus Research plc, Acoustic House, Bridling on Road, Hemmingby, North Yorkshire, YO11 0UH
Telephone: +44 (0)1723 891000 Fax: +44 (0)1723 891712
Email: enquiry@cirrusresearch.co.uk

CERTIFICATE OF CALIBRATION

ISSUED BY Cirrus Research plc

DATE OF ISSUE 03 January 2025 CERTIFICATE NUMBER 229571



Cirrus Research plc
Acoustic House
Bridlington Road
Hunmanby
North Yorkshire
YO14 0PH
United Kingdom

Page 1 of 2

Approved signatory
A. Windress
Electronically signed

Sound Calibrator : IEC 60942:2003

Instrument information

Manufacturer: Cirrus Research plc

Notes:

Model: CR-515

Serial number: 60614

Class: 1

Test summary

Date of calibration: 03 January 2025

The sound calibrator detailed above has been calibrated to the published data as described in the operating manual and in the half-inch configuration. The procedures and techniques used are as described in IEC60942_2003 Annex B – Periodic Tests and three determinations of the sound pressure level, frequency and total distortion were made.

The sound pressure level was measured using a WS2F condenser microphone type MK-224 manufactured by Cirrus Research plc.

The results have been corrected to the reference pressure of 101.33 kPa using the manufacturer's data.

As public evidence was available, from a testing organisation responsible for approving the results of pattern evaluation tests, to demonstrate that the model of sound calibrator fully conformed to the requirements for pattern evaluation described in Annex A of IEC 60942:2003, the sound calibrator tested is considered to conform to all the Class 1 requirements of IEC 60942:2003.

The manufacturer's product information indicates that this model of sound calibrator has been formally pattern approved to IEC60942_2003 Annex A to Class 1. This has been confirmed by Laboratoire National d'Essais (LNE), Physikalisch-Technische Bundesanstalt (PTB) and APPLUS (APPLUS).

Notes:

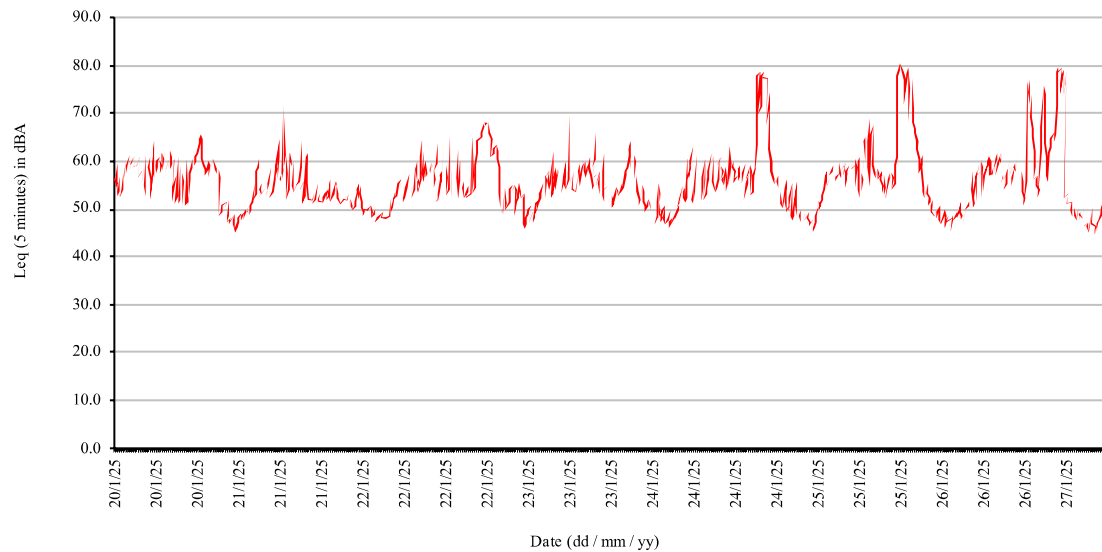
This certificate provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory. The results within this certificate relate only to the items calibrated. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%.

APPENDIX E

CONSTRUCTION SITE NOISE MONITORING DATA AND CHART

NAME OF COMPANY	CH2M HILL Singapore Pte Ltd		
SITE LOCATION	NM8 EIA Gillman Barracks		
REPORT REFERENCE	20/01/2025 - 27/01/2025		
MODE	Environment	FREQUENCY WEIGHTING	A

Leq (5 Minutes) Plotted Against Date of Monitoring



NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM8 EIA Gillman Barracks								
REPORT REFERENCE			20/01/2025 - 27/01/2025								
Start	20/1/25		7:05	Leq12h	58.2		Weighting		A		
End	20/1/25		19:00								
Date	Time	Leq5m		Date	Time	Leq5m		Date	Time	Leq5m	
20/1/25	7:05	56.5		20/1/25	11:05	60.0		20/1/25	15:05	60.2	
20/1/25	7:10	56.2		20/1/25	11:10	58.5		20/1/25	15:10	57.8	
20/1/25	7:15	55.3		20/1/25	11:15	56.5		20/1/25	15:15	61.0	
20/1/25	7:20	54.6		20/1/25	11:20	57.8		20/1/25	15:20	61.8	
20/1/25	7:25	59.5		20/1/25	11:25	58.2		20/1/25	15:25	59.8	
20/1/25	7:30	57.2		20/1/25	11:30	58.2		20/1/25	15:30	60.7	
20/1/25	7:35	52.9		20/1/25	11:35	57.9		20/1/25	15:35	56.9	
20/1/25	7:40	53.1		20/1/25	11:40	58.3		20/1/25	15:40	55.1	
20/1/25	7:45	53.5		20/1/25	11:45	57.8		20/1/25	15:45	59.3	
20/1/25	7:50	56.6		20/1/25	11:50	55.8		20/1/25	15:50	58.1	
20/1/25	7:55	52.9		20/1/25	11:55	58.1		20/1/25	15:55	58.6	
20/1/25	8:00	52.4		20/1/25	12:00	57.3		20/1/25	16:00	58.3	
20/1/25	8:05	54.1		20/1/25	12:05	61.3		20/1/25	16:05	60.1	
20/1/25	8:10	52.3		20/1/25	12:10	57.3		20/1/25	16:10	58.6	
20/1/25	8:15	54.1		20/1/25	12:15	54.9		20/1/25	16:15	60.4	
20/1/25	8:20	57.4		20/1/25	12:20	55.5		20/1/25	16:20	58.9	
20/1/25	8:25	56.8		20/1/25	12:25	52.8		20/1/25	16:25	61.9	
20/1/25	8:30	57.9		20/1/25	12:30	59.8		20/1/25	16:30	60.8	
20/1/25	8:35	56.4		20/1/25	12:35	58.7		20/1/25	16:35	59.2	
20/1/25	8:40	59.9		20/1/25	12:40	57.2		20/1/25	16:40	58.3	
20/1/25	8:45	59.4		20/1/25	12:45	56.9		20/1/25	16:45	58.5	
20/1/25	8:50	57.8		20/1/25	12:50	57.1		20/1/25	16:50	60.4	
20/1/25	8:55	57.6		20/1/25	12:55	60.9		20/1/25	16:55	51.5	
20/1/25	9:00	60.0		20/1/25	13:00	58.7		20/1/25	17:00	51.8	
20/1/25	9:05	57.5		20/1/25	13:05	56.3		20/1/25	17:05	54.6	
20/1/25	9:10	59.2		20/1/25	13:10	56.2		20/1/25	17:10	56.8	
20/1/25	9:15	59.7		20/1/25	13:15	55.2		20/1/25	17:15	52.4	
20/1/25	9:20	61.4		20/1/25	13:20	52.0		20/1/25	17:20	53.4	
20/1/25	9:25	59.0		20/1/25	13:25	58.1		20/1/25	17:25	50.9	
20/1/25	9:30	60.0	20/1/25	13:30	60.2	20/1/25	17:30	52.6			
20/1/25	9:35	59.8	20/1/25	13:35	64.4	20/1/25	17:35	58.1			
20/1/25	9:40	58.2	20/1/25	13:40	58.9	20/1/25	17:40	60.6			
20/1/25	9:45	58.4	20/1/25	13:45	59.0	20/1/25	17:45	52.3			
20/1/25	9:50	59.8	20/1/25	13:50	56.5	20/1/25	17:50	59.2			
20/1/25	9:55	59.1	20/1/25	13:55	59.1	20/1/25	17:55	51.9			
20/1/25	10:00	60.8	20/1/25	14:00	58.8	20/1/25	18:00	52.2			
20/1/25	10:05	59.6	20/1/25	14:05	57.3	20/1/25	18:05	51.0			
20/1/25	10:10	60.1	20/1/25	14:10	58.5	20/1/25	18:10	55.2			
20/1/25	10:15	59.8	20/1/25	14:15	59.9	20/1/25	18:15	51.8			
20/1/25	10:20	61.1	20/1/25	14:20	59.8	20/1/25	18:20	50.8			
20/1/25	10:25	58.9	20/1/25	14:25	61.0	20/1/25	18:25	57.3			
20/1/25	10:30	58.7	20/1/25	14:30	59.1	20/1/25	18:30	55.7			
20/1/25	10:35	59.2	20/1/25	14:35	58.7	20/1/25	18:35	50.7			
20/1/25	10:40	58.3	20/1/25	14:40	60.1	20/1/25	18:40	51.7			
20/1/25	10:45	59.5	20/1/25	14:45	59.4	20/1/25	18:45	52.7			
20/1/25	10:50	59.6	20/1/25	14:50	59.2	20/1/25	18:50	52.7			
20/1/25	10:55	58.7	20/1/25	14:55	57.6	20/1/25	18:55	51.2			
20/1/25	11:00	60.9	20/1/25	15:00	61.5	20/1/25	19:00	51.0			

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd									
SITE LOCATION			NM8 EIA Gillman Barracks									
REPORT REFERENCE			20/01/2025 - 27/01/2025									
Start	20/1/25	19:05	Leq12h	57.3					Weighting		A	
End	21/1/25	7:00										
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	
20/1/25	19:05	60.4	56.0	20/1/25	23:05	56.7	59.5	21/1/25	3:05	48.9	46.9	
20/1/25	19:10	50.8		20/1/25	23:10	57.5		21/1/25	3:10	47.5		
20/1/25	19:15	50.3		20/1/25	23:15	59.0		21/1/25	3:15	47.1		
20/1/25	19:20	51.5		20/1/25	23:20	60.4		21/1/25	3:20	46.8		
20/1/25	19:25	50.7		20/1/25	23:25	59.8		21/1/25	3:25	45.2		
20/1/25	19:30	52.8		20/1/25	23:30	60.0		21/1/25	3:30	44.8		
20/1/25	19:35	51.7		20/1/25	23:35	60.0		21/1/25	3:35	46.1		
20/1/25	19:40	56.0		20/1/25	23:40	59.9		21/1/25	3:40	45.9		
20/1/25	19:45	56.4		20/1/25	23:45	60.3		21/1/25	3:45	47.1		
20/1/25	19:50	57.5		20/1/25	23:50	60.6		21/1/25	3:50	46.0		
20/1/25	19:55	58.6	60.5	20/1/25	23:55	60.0	57.5	21/1/25	3:55	47.4	48.4	
20/1/25	20:00	58.9		20/1/25	0:00	58.4		21/1/25	4:00	48.1		
20/1/25	20:05	60.3		21/1/25	0:05	58.9		21/1/25	4:05	48.3		
20/1/25	20:10	60.0		21/1/25	0:10	58.9		21/1/25	4:10	48.3		
20/1/25	20:15	58.4		21/1/25	0:15	57.7		21/1/25	4:15	48.5		
20/1/25	20:20	64.0		21/1/25	0:20	57.4		21/1/25	4:20	48.0		
20/1/25	20:25	58.2		21/1/25	0:25	57.8		21/1/25	4:25	49.1		
20/1/25	20:30	58.1		21/1/25	0:30	58.4		21/1/25	4:30	47.7		
20/1/25	20:35	59.0		21/1/25	0:35	58.5		21/1/25	4:35	48.7		
20/1/25	20:40	60.0		21/1/25	0:40	58.1		21/1/25	4:40	48.2		
20/1/25	20:45	60.3	63.2	21/1/25	0:45	56.4	50.4	21/1/25	4:45	48.7	49.4	
20/1/25	20:50	60.6		21/1/25	0:50	56.8		21/1/25	4:50	49.2		
20/1/25	20:55	60.9		21/1/25	0:55	56.7		21/1/25	4:55	48.8		
20/1/25	21:00	61.8		21/1/25	1:00	48.7		21/1/25	5:00	47.5		
20/1/25	21:05	62.0		21/1/25	1:05	48.7		21/1/25	5:05	47.9		
20/1/25	21:10	61.4		21/1/25	1:10	49.5		21/1/25	5:10	48.1		
20/1/25	21:15	61.8		21/1/25	1:15	50.6		21/1/25	5:15	49.8		
20/1/25	21:20	63.6		21/1/25	1:20	51.0		21/1/25	5:20	49.3		
20/1/25	21:25	64.6		21/1/25	1:25	50.5		21/1/25	5:25	49.5		
20/1/25	21:30	65.3		21/1/25	1:30	50.3		21/1/25	5:30	49.8		
20/1/25	21:35	65.4	59.0	21/1/25	1:35	50.6	48.6	21/1/25	5:35	49.3	52.4	
20/1/25	21:40	64.8		21/1/25	1:40	50.5		21/1/25	5:40	50.5		
20/1/25	21:45	63.7		21/1/25	1:45	51.3		21/1/25	5:45	49.8		
20/1/25	21:50	60.4		21/1/25	1:50	50.3		21/1/25	5:50	49.5		
20/1/25	21:55	60.0		21/1/25	1:55	50.3		21/1/25	5:55	49.1		
20/1/25	22:00	60.3		21/1/25	2:00	50.8		21/1/25	6:00	49.6		
20/1/25	22:05	59.2		21/1/25	2:05	51.7		21/1/25	6:05	50.7		
20/1/25	22:10	59.0		21/1/25	2:10	51.4		21/1/25	6:10	50.4		
20/1/25	22:15	58.6		21/1/25	2:15	48.7		21/1/25	6:15	51.6		
20/1/25	22:20	58.6		21/1/25	2:20	47.4		21/1/25	6:20	51.3		
20/1/25	22:25	58.1	59.0	21/1/25	2:25	46.7	48.6	21/1/25	6:25	52.5		
20/1/25	22:30	57.9		21/1/25	2:30	48.1		21/1/25	6:30	51.5		
20/1/25	22:35	57.2		21/1/25	2:35	46.7		21/1/25	6:35	51.8		
20/1/25	22:40	58.1		21/1/25	2:40	47.7		21/1/25	6:40	55.2		
20/1/25	22:45	59.9		21/1/25	2:45	48.4		21/1/25	6:45	51.7		
20/1/25	22:50	60.5		21/1/25	2:50	47.6		21/1/25	6:50	52.1		
20/1/25	22:55	60.5		21/1/25	2:55	47.1		21/1/25	6:55	53.0		
20/1/25	23:00	59.0		21/1/25	3:00	47.8		21/1/25	7:00	54.0		

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd							
SITE LOCATION			NM8 EIA Gillman Barracks							
REPORT REFERENCE			20/01/2025 - 27/01/2025							
Start	21/1/25		7:05	Leq12h			57.5	Weighting		A
End	21/1/25		19:00							
Date	Time	Leq5m		Date	Time	Leq5m		Date	Time	Leq5m
21/1/25	7:05	54.5		21/1/25	11:05	58.8		21/1/25	15:05	51.5
21/1/25	7:10	57.8		21/1/25	11:10	56.0		21/1/25	15:10	52.6
21/1/25	7:15	58.7		21/1/25	11:15	57.6		21/1/25	15:15	55.3
21/1/25	7:20	60.5		21/1/25	11:20	55.7		21/1/25	15:20	55.1
21/1/25	7:25	52.3		21/1/25	11:25	55.9		21/1/25	15:25	55.1
21/1/25	7:30	53.4		21/1/25	11:30	57.7		21/1/25	15:30	55.1
21/1/25	7:35	52.3		21/1/25	11:35	71.8		21/1/25	15:35	60.6
21/1/25	7:40	55.1		21/1/25	11:40	58.2		21/1/25	15:40	61.8
21/1/25	7:45	54.2		21/1/25	11:45	61.4		21/1/25	15:45	55.2
21/1/25	7:50	53.4		21/1/25	11:50	61.3		21/1/25	15:50	52.1
21/1/25	7:55	53.0		21/1/25	11:55	61.7		21/1/25	15:55	51.8
21/1/25	8:00	53.5		21/1/25	12:00	61.8		21/1/25	16:00	51.4
21/1/25	8:05	52.6		21/1/25	12:05	60.8		21/1/25	16:05	52.2
21/1/25	8:10	52.7		21/1/25	12:10	57.3		21/1/25	16:10	51.5
21/1/25	8:15	53.0		21/1/25	12:15	52.1		21/1/25	16:15	51.9
21/1/25	8:20	53.4		21/1/25	12:20	54.0		21/1/25	16:20	52.4
21/1/25	8:25	54.3		21/1/25	12:25	54.6		21/1/25	16:25	51.7
21/1/25	8:30	53.2		21/1/25	12:30	58.0		21/1/25	16:30	52.0
21/1/25	8:35	52.9		21/1/25	12:35	59.2		21/1/25	16:35	53.0
21/1/25	8:40	53.1		21/1/25	12:40	61.5		21/1/25	16:40	51.1
21/1/25	8:45	54.4		21/1/25	12:45	61.1		21/1/25	16:45	51.3
21/1/25	8:50	52.2		21/1/25	12:50	61.1		21/1/25	16:50	50.9
21/1/25	8:55	52.8		21/1/25	12:55	61.7		21/1/25	16:55	51.9
21/1/25	9:00	54.7		21/1/25	13:00	60.0		21/1/25	17:00	53.0
21/1/25	9:05	53.7		21/1/25	13:05	59.2		21/1/25	17:05	51.9
21/1/25	9:10	55.4		21/1/25	13:10	59.1		21/1/25	17:10	55.2
21/1/25	9:15	58.9		21/1/25	13:15	59.9		21/1/25	17:15	51.0
21/1/25	9:20	55.9		21/1/25	13:20	54.7		21/1/25	17:20	52.1
21/1/25	9:25	56.8		21/1/25	13:25	53.6		21/1/25	17:25	51.7
21/1/25	9:30	52.5		21/1/25	13:30	53.6		21/1/25	17:30	51.1
21/1/25	9:35	52.9		21/1/25	13:35	54.1		21/1/25	17:35	52.2
21/1/25	9:40	52.1		21/1/25	13:40	53.0		21/1/25	17:40	53.3
21/1/25	9:45	53.6		21/1/25	13:45	55.6		21/1/25	17:45	51.3
21/1/25	9:50	53.7		21/1/25	13:50	54.8		21/1/25	17:50	51.2
21/1/25	9:55	54.2		21/1/25	13:55	55.3		21/1/25	17:55	51.9
21/1/25	10:00	56.3		21/1/25	14:00	55.3		21/1/25	18:00	52.0
21/1/25	10:05	58.5		21/1/25	14:05	54.5		21/1/25	18:05	51.2
21/1/25	10:10	57.4		21/1/25	14:10	55.7		21/1/25	18:10	51.4
21/1/25	10:15	59.5		21/1/25	14:15	55.9		21/1/25	18:15	51.8
21/1/25	10:20	60.0		21/1/25	14:20	56.3		21/1/25	18:20	51.4
21/1/25	10:25	58.2		21/1/25	14:25	58.9		21/1/25	18:25	51.5
21/1/25	10:30	57.2		21/1/25	14:30	64.2		21/1/25	18:30	52.3
21/1/25	10:35	60.1		21/1/25	14:35	55.0		21/1/25	18:35	52.2
21/1/25	10:40	64.6		21/1/25	14:40	54.1		21/1/25	18:40	53.0
21/1/25	10:45	64.4		21/1/25	14:45	55.7		21/1/25	18:45	54.0
21/1/25	10:50	60.6		21/1/25	14:50	51.8		21/1/25	18:50	53.0
21/1/25	10:55	56.2		21/1/25	14:55	51.0		21/1/25	18:55	53.7
21/1/25	11:00	59.0		21/1/25	15:00	51.2		21/1/25	19:00	53.9

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM8 EIA Gillman Barracks								
REPORT REFERENCE			20/01/2025 - 27/01/2025								
Start	21/1/25	19:05	Leq12h	51.2				Weighting		A	
End	22/1/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
21/1/25	19:05	53.3	52.9	21/1/25	23:05	51.4	50.7	22/1/25	3:05	48.8	47.8
21/1/25	19:10	51.7		21/1/25	23:10	52.3		22/1/25	3:10	48.2	
21/1/25	19:15	52.7		21/1/25	23:15	50.8		22/1/25	3:15	47.7	
21/1/25	19:20	56.0		21/1/25	23:20	50.5		22/1/25	3:20	47.4	
21/1/25	19:25	54.9		21/1/25	23:25	50.1		22/1/25	3:25	47.2	
21/1/25	19:30	53.3		21/1/25	23:30	49.7		22/1/25	3:30	48.1	
21/1/25	19:35	51.3		21/1/25	23:35	49.7		22/1/25	3:35	47.6	
21/1/25	19:40	52.1		21/1/25	23:40	49.6		22/1/25	3:40	47.7	
21/1/25	19:45	51.4		21/1/25	23:45	50.4		22/1/25	3:45	47.5	
21/1/25	19:50	51.4		21/1/25	23:50	50.5		22/1/25	3:50	48.0	
21/1/25	19:55	51.5	53.4	21/1/25	23:55	51.4	52.7	22/1/25	3:55	47.8	48.2
21/1/25	20:00	51.9		21/1/25	0:00	51.3		22/1/25	4:00	47.6	
21/1/25	20:05	53.3		22/1/25	0:05	51.3		22/1/25	4:05	48.2	
21/1/25	20:10	53.7		22/1/25	0:10	50.9		22/1/25	4:10	49.2	
21/1/25	20:15	53.0		22/1/25	0:15	55.2		22/1/25	4:15	48.1	
21/1/25	20:20	56.0		22/1/25	0:20	54.1		22/1/25	4:20	47.8	
21/1/25	20:25	53.0		22/1/25	0:25	52.0		22/1/25	4:25	48.0	
21/1/25	20:30	54.8		22/1/25	0:30	54.0		22/1/25	4:30	48.4	
21/1/25	20:35	53.1		22/1/25	0:35	54.7		22/1/25	4:35	48.2	
21/1/25	20:40	53.0		22/1/25	0:40	53.0		22/1/25	4:40	48.0	
21/1/25	20:45	52.8	51.6	22/1/25	0:45	51.3	49.6	22/1/25	4:45	47.7	49.7
21/1/25	20:50	52.3		22/1/25	0:50	51.3		22/1/25	4:50	48.0	
21/1/25	20:55	52.3		22/1/25	0:55	50.4		22/1/25	4:55	48.5	
21/1/25	21:00	52.0		22/1/25	1:00	49.8		22/1/25	5:00	48.3	
21/1/25	21:05	52.2		22/1/25	1:05	50.1		22/1/25	5:05	48.1	
21/1/25	21:10	51.8		22/1/25	1:10	49.4		22/1/25	5:10	47.9	
21/1/25	21:15	50.9		22/1/25	1:15	48.6		22/1/25	5:15	48.2	
21/1/25	21:20	50.8		22/1/25	1:20	49.9		22/1/25	5:20	48.5	
21/1/25	21:25	51.9		22/1/25	1:25	50.1		22/1/25	5:25	48.3	
21/1/25	21:30	51.2		22/1/25	1:30	49.7		22/1/25	5:30	48.5	
21/1/25	21:35	51.2	51.9	22/1/25	1:35	50.2	49.5	22/1/25	5:35	49.0	52.1
21/1/25	21:40	52.0		22/1/25	1:40	49.5		22/1/25	5:40	52.4	
21/1/25	21:45	51.4		22/1/25	1:45	49.8		22/1/25	5:45	50.6	
21/1/25	21:50	51.6		22/1/25	1:50	49.6		22/1/25	5:50	51.7	
21/1/25	21:55	51.7		22/1/25	1:55	49.2		22/1/25	5:55	49.3	
21/1/25	22:00	52.1		22/1/25	2:00	49.4		22/1/25	6:00	51.0	
21/1/25	22:05	51.5		22/1/25	2:05	49.7		22/1/25	6:05	50.4	
21/1/25	22:10	51.6		22/1/25	2:10	50.0		22/1/25	6:10	50.0	
21/1/25	22:15	51.7		22/1/25	2:15	50.1		22/1/25	6:15	53.8	
21/1/25	22:20	51.8		22/1/25	2:20	50.5		22/1/25	6:20	52.0	
21/1/25	22:25	53.3	22/1/25	2:25	49.5	22/1/25	6:25	51.9			
21/1/25	22:30	51.7	22/1/25	2:30	49.1	22/1/25	6:30	52.2			
21/1/25	22:35	52.2	22/1/25	2:35	49.1	22/1/25	6:35	52.5			
21/1/25	22:40	51.5	22/1/25	2:40	48.3	22/1/25	6:40	51.3			
21/1/25	22:45	51.0	22/1/25	2:45	49.0	22/1/25	6:45	52.2			
21/1/25	22:50	51.7	22/1/25	2:50	48.8	22/1/25	6:50	52.6			
21/1/25	22:55	52.4	22/1/25	2:55	49.9	22/1/25	6:55	52.2			
21/1/25	23:00	51.4	22/1/25	3:00	49.4	22/1/25	7:00	53.2			

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM8 EIA Gillman Barracks						
REPORT REFERENCE			20/01/2025 - 27/01/2025						
Start	22/1/25	7:05	Leq12h		57.5	Weighting		A	
End	22/1/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m	
22/1/25	7:05	52.6	22/1/25	11:05	62.0	22/1/25	15:05	56.5	
22/1/25	7:10	55.2	22/1/25	11:10	61.2	22/1/25	15:10	56.8	
22/1/25	7:15	56.2	22/1/25	11:15	57.3	22/1/25	15:15	52.8	
22/1/25	7:20	53.0	22/1/25	11:20	55.7	22/1/25	15:20	52.5	
22/1/25	7:25	56.2	22/1/25	11:25	55.5	22/1/25	15:25	52.5	
22/1/25	7:30	58.2	22/1/25	11:30	58.1	22/1/25	15:30	54.1	
22/1/25	7:35	52.5	22/1/25	11:35	59.9	22/1/25	15:35	57.8	
22/1/25	7:40	56.2	22/1/25	11:40	57.5	22/1/25	15:40	54.7	
22/1/25	7:45	52.3	22/1/25	11:45	60.6	22/1/25	15:45	65.2	
22/1/25	7:50	52.2	22/1/25	11:50	56.4	22/1/25	15:50	53.4	
22/1/25	7:55	51.6	22/1/25	11:55	60.8	22/1/25	15:55	53.5	
22/1/25	8:00	52.2	22/1/25	12:00	59.5	22/1/25	16:00	53.7	
22/1/25	8:05	52.4	22/1/25	12:05	54.2	22/1/25	16:05	54.0	
22/1/25	8:10	51.7	22/1/25	12:10	56.0	22/1/25	16:10	53.1	
22/1/25	8:15	52.2	22/1/25	12:15	62.3	22/1/25	16:15	52.3	
22/1/25	8:20	52.6	22/1/25	12:20	58.6	22/1/25	16:20	61.3	
22/1/25	8:25	52.8	22/1/25	12:25	57.4	22/1/25	16:25	60.9	
22/1/25	8:30	54.6	22/1/25	12:30	58.5	22/1/25	16:30	56.5	
22/1/25	8:35	57.6	22/1/25	12:35	57.4	22/1/25	16:35	66.9	
22/1/25	8:40	56.4	22/1/25	12:40	59.7	22/1/25	16:40	55.8	
22/1/25	8:45	52.4	22/1/25	12:45	58.9	22/1/25	16:45	56.5	
22/1/25	8:50	53.1	22/1/25	12:50	58.8	22/1/25	16:50	55.6	
22/1/25	8:55	52.5	22/1/25	12:55	60.0	22/1/25	16:55	57.9	
22/1/25	9:00	58.9	22/1/25	13:00	58.1	22/1/25	17:00	62.4	
22/1/25	9:05	53.4	22/1/25	13:05	56.3	22/1/25	17:05	56.7	
22/1/25	9:10	60.7	22/1/25	13:10	54.6	22/1/25	17:10	52.4	
22/1/25	9:15	61.2	22/1/25	13:15	58.7	22/1/25	17:15	52.1	
22/1/25	9:20	53.9	22/1/25	13:20	58.0	22/1/25	17:20	55.8	
22/1/25	9:25	55.7	22/1/25	13:25	59.7	22/1/25	17:25	59.8	
22/1/25	9:30	59.0	22/1/25	13:30	63.8	22/1/25	17:30	53.2	
22/1/25	9:35	52.5	22/1/25	13:35	52.8	22/1/25	17:35	54.3	
22/1/25	9:40	54.2	22/1/25	13:40	51.6	22/1/25	17:40	52.9	
22/1/25	9:45	55.5	22/1/25	13:45	52.2	22/1/25	17:45	51.6	
22/1/25	9:50	56.9	22/1/25	13:50	51.5	22/1/25	17:50	53.5	
22/1/25	9:55	58.8	22/1/25	13:55	52.1	22/1/25	17:55	55.6	
22/1/25	10:00	56.5	22/1/25	14:00	53.1	22/1/25	18:00	52.0	
22/1/25	10:05	59.9	22/1/25	14:05	55.6	22/1/25	18:05	52.3	
22/1/25	10:10	58.1	22/1/25	14:10	56.1	22/1/25	18:10	54.3	
22/1/25	10:15	58.5	22/1/25	14:15	57.8	22/1/25	18:15	52.4	
22/1/25	10:20	57.7	22/1/25	14:20	57.0	22/1/25	18:20	52.5	
22/1/25	10:25	55.9	22/1/25	14:25	55.2	22/1/25	18:25	52.7	
22/1/25	10:30	56.7	22/1/25	14:30	56.6	22/1/25	18:30	52.8	
22/1/25	10:35	52.7	22/1/25	14:35	54.9	22/1/25	18:35	53.6	
22/1/25	10:40	53.3	22/1/25	14:40	64.6	22/1/25	18:40	52.9	
22/1/25	10:45	56.2	22/1/25	14:45	53.1	22/1/25	18:45	55.0	
22/1/25	10:50	60.7	22/1/25	14:50	53.9	22/1/25	18:50	52.5	
22/1/25	10:55	64.0	22/1/25	14:55	56.3	22/1/25	18:55	52.0	
22/1/25	11:00	61.0	22/1/25	15:00	59.1	22/1/25	19:00	52.3	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd									
SITE LOCATION			NM8 EIA Gillman Barracks									
REPORT REFERENCE			20/01/2025 - 27/01/2025									
Start	22/1/25	19:05	Leq12h	60.8					Weighting		A	
End	23/1/25	7:00										
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	
22/1/25	19:05	51.9	57.1	22/1/25	23:05	60.6	62.0	23/1/25	3:05	52.1	53.7	
22/1/25	19:10	51.8		22/1/25	23:10	61.8		23/1/25	3:10	52.2		
22/1/25	19:15	53.1		22/1/25	23:15	62.7		23/1/25	3:15	53.3		
22/1/25	19:20	56.1		22/1/25	23:20	62.7		23/1/25	3:20	53.8		
22/1/25	19:25	53.7		22/1/25	23:25	63.2		23/1/25	3:25	55.2		
22/1/25	19:30	65.1		22/1/25	23:30	62.9		23/1/25	3:30	55.3		
22/1/25	19:35	56.8		22/1/25	23:35	62.8		23/1/25	3:35	53.7		
22/1/25	19:40	56.6		22/1/25	23:40	62.8		23/1/25	3:40	53.6		
22/1/25	19:45	54.0		22/1/25	23:45	62.0		23/1/25	3:45	53.8		
22/1/25	19:50	53.3		22/1/25	23:50	60.5		23/1/25	3:50	53.8		
22/1/25	19:55	53.2		22/1/25	23:55	60.0		23/1/25	3:55	53.1		
22/1/25	20:00	53.5		22/1/25	0:00	60.5		23/1/25	4:00	53.1		
22/1/25	20:05	54.4	63.6	23/1/25	0:05	59.9	54.4	23/1/25	4:05	52.4	49.5	
22/1/25	20:10	59.1		23/1/25	0:10	58.5		23/1/25	4:10	53.0		
22/1/25	20:15	61.5		23/1/25	0:15	53.1		23/1/25	4:15	52.2		
22/1/25	20:20	63.2		23/1/25	0:20	53.3		23/1/25	4:20	46.8		
22/1/25	20:25	64.0		23/1/25	0:25	53.3		23/1/25	4:25	46.9		
22/1/25	20:30	63.7		23/1/25	0:30	50.4		23/1/25	4:30	45.8		
22/1/25	20:35	64.5		23/1/25	0:35	48.9		23/1/25	4:35	46.8		
22/1/25	20:40	65.0		23/1/25	0:40	49.7		23/1/25	4:40	47.0		
22/1/25	20:45	64.4		23/1/25	0:45	49.1		23/1/25	4:45	48.2		
22/1/25	20:50	64.4		23/1/25	0:50	51.1		23/1/25	4:50	47.7		
22/1/25	20:55	65.0		23/1/25	0:55	53.4		23/1/25	4:55	48.8		
22/1/25	21:00	65.2		23/1/25	1:00	54.3		23/1/25	5:00	49.8		
22/1/25	21:05	65.6	67.0	23/1/25	1:05	54.9	52.0	23/1/25	5:05	49.4	48.4	
22/1/25	21:10	66.1		23/1/25	1:10	51.1		23/1/25	5:10	50.6		
22/1/25	21:15	66.3		23/1/25	1:15	49.6		23/1/25	5:15	50.0		
22/1/25	21:20	65.4		23/1/25	1:20	49.3		23/1/25	5:20	48.3		
22/1/25	21:25	65.7		23/1/25	1:25	49.4		23/1/25	5:25	47.2		
22/1/25	21:30	67.3		23/1/25	1:30	49.2		23/1/25	5:30	47.0		
22/1/25	21:35	68.0		23/1/25	1:35	49.3		23/1/25	5:35	47.3		
22/1/25	21:40	67.7		23/1/25	1:40	49.5		23/1/25	5:40	46.9		
22/1/25	21:45	67.3		23/1/25	1:45	51.5		23/1/25	5:45	49.2		
22/1/25	21:50	67.7		23/1/25	1:50	54.0		23/1/25	5:50	47.3		
22/1/25	21:55	67.6		23/1/25	1:55	54.5		23/1/25	5:55	47.9		
22/1/25	22:00	67.8		23/1/25	2:00	54.6		23/1/25	6:00	48.0		
22/1/25	22:05	67.7	65.8	23/1/25	2:05	54.8	53.9	23/1/25	6:05	48.2	50.4	
22/1/25	22:10	67.9		23/1/25	2:10	54.8		23/1/25	6:10	50.5		
22/1/25	22:15	68.0		23/1/25	2:15	54.9		23/1/25	6:15	49.8		
22/1/25	22:20	67.7		23/1/25	2:20	55.0		23/1/25	6:20	48.8		
22/1/25	22:25	67.5		23/1/25	2:25	55.1		23/1/25	6:25	48.8		
22/1/25	22:30	66.1		23/1/25	2:30	54.6		23/1/25	6:30	50.9		
22/1/25	22:35	65.7		23/1/25	2:35	54.2		23/1/25	6:35	52.1		
22/1/25	22:40	64.6		23/1/25	2:40	54.7		23/1/25	6:40	49.8		
22/1/25	22:45	62.7		23/1/25	2:45	54.0		23/1/25	6:45	51.7		
22/1/25	22:50	61.6		23/1/25	2:50	49.9		23/1/25	6:50	50.9		
22/1/25	22:55	60.7		23/1/25	2:55	48.7		23/1/25	6:55	50.8		
22/1/25	23:00	60.2		23/1/25	3:00	51.4		23/1/25	7:00	51.0		

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM8 EIA Gillman Barracks						
REPORT REFERENCE			20/01/2025 - 27/01/2025						
Start	23/1/25	7:05	Leq12h		57.4	Weighting		A	
End	23/1/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m	
23/1/25	7:05	52.3	23/1/25	11:05	58.0	23/1/25	15:05	58.8	
23/1/25	7:10	53.0	23/1/25	11:10	59.9	23/1/25	15:10	55.8	
23/1/25	7:15	55.1	23/1/25	11:15	55.3	23/1/25	15:15	59.5	
23/1/25	7:20	54.7	23/1/25	11:20	54.1	23/1/25	15:20	60.7	
23/1/25	7:25	50.4	23/1/25	11:25	54.5	23/1/25	15:25	58.7	
23/1/25	7:30	51.0	23/1/25	11:30	54.7	23/1/25	15:30	58.4	
23/1/25	7:35	50.0	23/1/25	11:35	54.2	23/1/25	15:35	58.5	
23/1/25	7:40	51.3	23/1/25	11:40	56.3	23/1/25	15:40	58.7	
23/1/25	7:45	54.5	23/1/25	11:45	59.2	23/1/25	15:45	56.8	
23/1/25	7:50	56.8	23/1/25	11:50	69.7	23/1/25	15:50	55.0	
23/1/25	7:55	56.3	23/1/25	11:55	56.4	23/1/25	15:55	54.0	
23/1/25	8:00	57.3	23/1/25	12:00	57.6	23/1/25	16:00	60.0	
23/1/25	8:05	52.2	23/1/25	12:05	59.0	23/1/25	16:05	58.8	
23/1/25	8:10	56.5	23/1/25	12:10	56.4	23/1/25	16:10	60.5	
23/1/25	8:15	57.8	23/1/25	12:15	55.0	23/1/25	16:15	57.5	
23/1/25	8:20	55.9	23/1/25	12:20	56.4	23/1/25	16:20	65.8	
23/1/25	8:25	55.6	23/1/25	12:25	55.5	23/1/25	16:25	56.7	
23/1/25	8:30	55.7	23/1/25	12:30	57.8	23/1/25	16:30	57.4	
23/1/25	8:35	53.9	23/1/25	12:35	57.9	23/1/25	16:35	55.2	
23/1/25	8:40	55.2	23/1/25	12:40	54.1	23/1/25	16:40	56.8	
23/1/25	8:45	55.3	23/1/25	12:45	53.8	23/1/25	16:45	55.0	
23/1/25	8:50	55.8	23/1/25	12:50	54.5	23/1/25	16:50	57.6	
23/1/25	8:55	62.0	23/1/25	12:55	54.5	23/1/25	16:55	56.0	
23/1/25	9:00	53.3	23/1/25	13:00	54.4	23/1/25	17:00	57.7	
23/1/25	9:05	52.7	23/1/25	13:05	53.7	23/1/25	17:05	55.4	
23/1/25	9:10	52.5	23/1/25	13:10	55.2	23/1/25	17:10	54.8	
23/1/25	9:15	52.1	23/1/25	13:15	56.5	23/1/25	17:15	53.3	
23/1/25	9:20	55.4	23/1/25	13:20	53.7	23/1/25	17:20	56.6	
23/1/25	9:25	58.8	23/1/25	13:25	54.7	23/1/25	17:25	55.4	
23/1/25	9:30	55.8	23/1/25	13:30	59.5	23/1/25	17:30	54.8	
23/1/25	9:35	56.5	23/1/25	13:35	56.5	23/1/25	17:35	61.8	
23/1/25	9:40	54.0	23/1/25	13:40	57.7	23/1/25	17:40	58.0	
23/1/25	9:45	56.5	23/1/25	13:45	54.8	23/1/25	17:45	52.8	
23/1/25	9:50	58.2	23/1/25	13:50	57.2	23/1/25	17:50	51.6	
23/1/25	9:55	58.1	23/1/25	13:55	56.8	23/1/25	17:55	52.1	
23/1/25	10:00	56.8	23/1/25	14:00	57.5	23/1/25	18:00	51.3	
23/1/25	10:05	58.5	23/1/25	14:05	60.1	23/1/25	18:05	56.0	
23/1/25	10:10	57.2	23/1/25	14:10	58.4	23/1/25	18:10	53.9	
23/1/25	10:15	55.7	23/1/25	14:15	60.2	23/1/25	18:15	54.8	
23/1/25	10:20	59.6	23/1/25	14:20	58.5	23/1/25	18:20	50.9	
23/1/25	10:25	56.3	23/1/25	14:25	58.7	23/1/25	18:25	51.6	
23/1/25	10:30	57.2	23/1/25	14:30	59.8	23/1/25	18:30	52.9	
23/1/25	10:35	57.7	23/1/25	14:35	58.7	23/1/25	18:35	53.1	
23/1/25	10:40	53.9	23/1/25	14:40	57.9	23/1/25	18:40	52.3	
23/1/25	10:45	58.0	23/1/25	14:45	58.1	23/1/25	18:45	51.7	
23/1/25	10:50	55.1	23/1/25	14:50	56.6	23/1/25	18:50	54.1	
23/1/25	10:55	53.2	23/1/25	14:55	57.8	23/1/25	18:55	51.3	
23/1/25	11:00	57.0	23/1/25	15:00	59.2	23/1/25	19:00	51.0	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd									
SITE LOCATION			NM8 EIA Gillman Barracks									
REPORT REFERENCE			20/01/2025 - 27/01/2025									
Start	23/1/25	19:05	Leq12h	54.8					Weighting		A	
End	24/1/25	7:00										
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	
23/1/25	19:05	52.9	52.8	23/1/25	23:05	60.0	55.2	24/1/25	3:05	55.2	50.9	
23/1/25	19:10	52.6		23/1/25	23:10	56.2		24/1/25	3:10	54.8		
23/1/25	19:15	51.0		23/1/25	23:15	57.0		24/1/25	3:15	53.1		
23/1/25	19:20	51.0		23/1/25	23:20	56.9		24/1/25	3:20	48.1		
23/1/25	19:25	50.2		23/1/25	23:25	53.5		24/1/25	3:25	49.0		
23/1/25	19:30	51.6		23/1/25	23:30	53.5		24/1/25	3:30	48.3		
23/1/25	19:35	51.2		23/1/25	23:35	54.1		24/1/25	3:35	47.1		
23/1/25	19:40	53.1		23/1/25	23:40	53.9		24/1/25	3:40	47.2		
23/1/25	19:45	53.6		23/1/25	23:45	54.2		24/1/25	3:45	49.4		
23/1/25	19:50	54.4		23/1/25	23:50	52.0		24/1/25	3:50	50.6		
23/1/25	19:55	54.6		23/1/25	23:55	50.8		24/1/25	3:55	48.5		
23/1/25	20:00	54.8		23/1/25	0:00	50.3		24/1/25	4:00	47.8		
23/1/25	20:05	53.9	53.6	24/1/25	0:05	51.1	52.3	24/1/25	4:05	47.9	47.6	
23/1/25	20:10	53.5		24/1/25	0:10	50.9		24/1/25	4:10	47.9		
23/1/25	20:15	53.6		24/1/25	0:15	54.7		24/1/25	4:15	48.2		
23/1/25	20:20	53.0		24/1/25	0:20	54.7		24/1/25	4:20	46.7		
23/1/25	20:25	52.7		24/1/25	0:25	53.4		24/1/25	4:25	47.3		
23/1/25	20:30	53.3		24/1/25	0:30	53.3		24/1/25	4:30	46.9		
23/1/25	20:35	54.0		24/1/25	0:35	52.9		24/1/25	4:35	47.0		
23/1/25	20:40	53.5		24/1/25	0:40	51.4		24/1/25	4:40	47.1		
23/1/25	20:45	53.4		24/1/25	0:45	50.5		24/1/25	4:45	47.6		
23/1/25	20:50	55.4		24/1/25	0:50	50.4		24/1/25	4:50	48.3		
23/1/25	20:55	53.1		24/1/25	0:55	50.8		24/1/25	4:55	49.6		
23/1/25	21:00	53.2		24/1/25	1:00	49.3		24/1/25	5:00	46.0		
23/1/25	21:05	53.0	57.4	24/1/25	1:05	50.8	51.0	24/1/25	5:05	47.4	48.1	
23/1/25	21:10	53.6		24/1/25	1:10	50.1		24/1/25	5:10	48.2		
23/1/25	21:15	54.4		24/1/25	1:15	51.2		24/1/25	5:15	48.1		
23/1/25	21:20	54.7		24/1/25	1:20	52.0		24/1/25	5:20	46.9		
23/1/25	21:25	57.0		24/1/25	1:25	51.9		24/1/25	5:25	46.8		
23/1/25	21:30	57.2		24/1/25	1:30	51.7		24/1/25	5:30	47.2		
23/1/25	21:35	57.7		24/1/25	1:35	51.2		24/1/25	5:35	48.2		
23/1/25	21:40	58.5		24/1/25	1:40	50.5		24/1/25	5:40	48.6		
23/1/25	21:45	58.4		24/1/25	1:45	50.8		24/1/25	5:45	48.9		
23/1/25	21:50	58.5		24/1/25	1:50	50.0		24/1/25	5:50	49.0		
23/1/25	21:55	58.4		24/1/25	1:55	50.7		24/1/25	5:55	49.3		
23/1/25	22:00	60.8		24/1/25	2:00	50.2		24/1/25	6:00	47.9		
23/1/25	22:05	63.4	61.8	24/1/25	2:05	49.9	49.6	24/1/25	6:05	48.9	51.4	
23/1/25	22:10	64.1		24/1/25	2:10	52.0		24/1/25	6:10	49.5		
23/1/25	22:15	62.3		24/1/25	2:15	51.9		24/1/25	6:15	49.7		
23/1/25	22:20	62.0		24/1/25	2:20	50.3		24/1/25	6:20	50.2		
23/1/25	22:25	62.7		24/1/25	2:25	48.5		24/1/25	6:25	51.0		
23/1/25	22:30	62.1		24/1/25	2:30	46.9		24/1/25	6:30	50.4		
23/1/25	22:35	58.2		24/1/25	2:35	47.1		24/1/25	6:35	52.0		
23/1/25	22:40	58.5		24/1/25	2:40	46.8		24/1/25	6:40	54.2		
23/1/25	22:45	61.1		24/1/25	2:45	48.5		24/1/25	6:45	51.0		
23/1/25	22:50	61.3		24/1/25	2:50	48.3		24/1/25	6:50	52.5		
23/1/25	22:55	61.6		24/1/25	2:55	48.0		24/1/25	6:55	52.4		
23/1/25	23:00	60.8		24/1/25	3:00	51.6		24/1/25	7:00	52.2		

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM8 EIA Gillman Barracks						
REPORT REFERENCE			20/01/2025 - 27/01/2025						
Start	24/1/25	7:05	Leq12h		56.9	Weighting			A
End	24/1/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m	
24/1/25	7:05	54.7	24/1/25	11:05	53.2	24/1/25	15:05	62.8	
24/1/25	7:10	53.7	24/1/25	11:10	53.7	24/1/25	15:10	59.6	
24/1/25	7:15	54.2	24/1/25	11:15	56.4	24/1/25	15:15	55.8	
24/1/25	7:20	54.3	24/1/25	11:20	54.5	24/1/25	15:20	56.5	
24/1/25	7:25	53.5	24/1/25	11:25	54.8	24/1/25	15:25	58.5	
24/1/25	7:30	52.3	24/1/25	11:30	56.1	24/1/25	15:30	57.5	
24/1/25	7:35	51.6	24/1/25	11:35	57.7	24/1/25	15:35	58.3	
24/1/25	7:40	52.5	24/1/25	11:40	57.6	24/1/25	15:40	59.8	
24/1/25	7:45	52.5	24/1/25	11:45	61.7	24/1/25	15:45	58.6	
24/1/25	7:50	60.2	24/1/25	11:50	58.6	24/1/25	15:50	58.0	
24/1/25	7:55	60.7	24/1/25	11:55	59.0	24/1/25	15:55	57.0	
24/1/25	8:00	56.1	24/1/25	12:00	58.5	24/1/25	16:00	55.5	
24/1/25	8:05	57.2	24/1/25	12:05	60.9	24/1/25	16:05	56.0	
24/1/25	8:10	56.7	24/1/25	12:10	55.7	24/1/25	16:10	56.8	
24/1/25	8:15	59.1	24/1/25	12:15	55.6	24/1/25	16:15	56.0	
24/1/25	8:20	56.9	24/1/25	12:20	56.2	24/1/25	16:20	55.7	
24/1/25	8:25	56.3	24/1/25	12:25	54.5	24/1/25	16:25	58.7	
24/1/25	8:30	60.0	24/1/25	12:30	54.0	24/1/25	16:30	57.1	
24/1/25	8:35	63.0	24/1/25	12:35	54.2	24/1/25	16:35	55.8	
24/1/25	8:40	55.4	24/1/25	12:40	54.3	24/1/25	16:40	59.0	
24/1/25	8:45	53.4	24/1/25	12:45	53.7	24/1/25	16:45	58.2	
24/1/25	8:50	51.9	24/1/25	12:50	53.7	24/1/25	16:50	58.5	
24/1/25	8:55	54.0	24/1/25	12:55	54.5	24/1/25	16:55	56.3	
24/1/25	9:00	51.2	24/1/25	13:00	54.1	24/1/25	17:00	57.8	
24/1/25	9:05	53.4	24/1/25	13:05	56.2	24/1/25	17:05	53.6	
24/1/25	9:10	53.8	24/1/25	13:10	60.6	24/1/25	17:10	56.3	
24/1/25	9:15	53.6	24/1/25	13:15	58.3	24/1/25	17:15	55.3	
24/1/25	9:20	61.1	24/1/25	13:20	59.3	24/1/25	17:20	54.9	
24/1/25	9:25	57.0	24/1/25	13:25	60.7	24/1/25	17:25	57.4	
24/1/25	9:30	55.5	24/1/25	13:30	57.8	24/1/25	17:30	57.0	
24/1/25	9:35	56.3	24/1/25	13:35	58.7	24/1/25	17:35	59.6	
24/1/25	9:40	54.2	24/1/25	13:40	58.7	24/1/25	17:40	54.5	
24/1/25	9:45	57.1	24/1/25	13:45	58.0	24/1/25	17:45	56.6	
24/1/25	9:50	52.4	24/1/25	13:50	56.8	24/1/25	17:50	52.1	
24/1/25	9:55	53.9	24/1/25	13:55	56.1	24/1/25	17:55	52.0	
24/1/25	10:00	54.1	24/1/25	14:00	57.0	24/1/25	18:00	55.5	
24/1/25	10:05	52.4	24/1/25	14:05	54.8	24/1/25	18:05	56.9	
24/1/25	10:10	51.2	24/1/25	14:10	54.8	24/1/25	18:10	56.3	
24/1/25	10:15	52.8	24/1/25	14:15	57.0	24/1/25	18:15	58.3	
24/1/25	10:20	52.0	24/1/25	14:20	58.8	24/1/25	18:20	58.4	
24/1/25	10:25	52.1	24/1/25	14:25	55.4	24/1/25	18:25	56.6	
24/1/25	10:30	54.4	24/1/25	14:30	53.7	24/1/25	18:30	59.3	
24/1/25	10:35	56.4	24/1/25	14:35	54.2	24/1/25	18:35	57.8	
24/1/25	10:40	60.3	24/1/25	14:40	57.2	24/1/25	18:40	58.2	
24/1/25	10:45	56.1	24/1/25	14:45	57.1	24/1/25	18:45	53.8	
24/1/25	10:50	52.0	24/1/25	14:50	54.3	24/1/25	18:50	52.7	
24/1/25	10:55	52.2	24/1/25	14:55	54.0	24/1/25	18:55	53.4	
24/1/25	11:00	53.1	24/1/25	15:00	57.3	24/1/25	19:00	56.9	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd									
SITE LOCATION			NM8 EIA Gillman Barracks									
REPORT REFERENCE			20/01/2025 - 27/01/2025									
Start	24/1/25		19:05	Leq12h		69.3		Weighting		A		
End	25/1/25		7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	
24/1/25	19:05	57.2	73.5	24/1/25	23:05	57.5	54.7	25/1/25	3:05	48.7	48.0	
24/1/25	19:10	57.2		24/1/25	23:10	56.7		25/1/25	3:10	47.3		
24/1/25	19:15	58.7		24/1/25	23:15	55.9		25/1/25	3:15	47.7		
24/1/25	19:20	58.3		24/1/25	23:20	54.6		25/1/25	3:20	47.6		
24/1/25	19:25	55.5		24/1/25	23:25	55.5		25/1/25	3:25	48.3		
24/1/25	19:30	55.6		24/1/25	23:30	52.5		25/1/25	3:30	47.2		
24/1/25	19:35	63.4		24/1/25	23:35	53.8		25/1/25	3:35	47.3		
24/1/25	19:40	71.1		24/1/25	23:40	54.2		25/1/25	3:40	49.0		
24/1/25	19:45	77.9		24/1/25	23:45	53.7		25/1/25	3:45	48.7		
24/1/25	19:50	77.6		24/1/25	23:50	53.1		25/1/25	3:50	47.6		
24/1/25	19:55	77.8	76.7	24/1/25	23:55	53.1	52.1	25/1/25	3:55	48.1	47.8	
24/1/25	20:00	78.5		24/1/25	0:00	51.0		25/1/25	4:00	47.7		
24/1/25	20:05	74.0		25/1/25	0:05	50.9		25/1/25	4:05	48.0		
24/1/25	20:10	69.5		25/1/25	0:10	50.4		25/1/25	4:10	47.5		
24/1/25	20:15	69.3		25/1/25	0:15	51.5		25/1/25	4:15	49.2		
24/1/25	20:20	71.6		25/1/25	0:20	50.1		25/1/25	4:20	48.1		
24/1/25	20:25	77.6		25/1/25	0:25	54.4		25/1/25	4:25	47.8		
24/1/25	20:30	77.5		25/1/25	0:30	56.1		25/1/25	4:30	48.0		
24/1/25	20:35	78.8		25/1/25	0:35	54.1		25/1/25	4:35	47.3		
24/1/25	20:40	78.8		25/1/25	0:40	51.4		25/1/25	4:40	47.8		
24/1/25	20:45	78.8	74.8	25/1/25	0:45	49.3	51.0	25/1/25	4:45	46.3	47.6	
24/1/25	20:50	77.4		25/1/25	0:50	50.5		25/1/25	4:50	46.9		
24/1/25	20:55	77.6		25/1/25	0:55	49.8		25/1/25	4:55	47.8		
24/1/25	21:00	77.3		25/1/25	1:00	50.2		25/1/25	5:00	47.7		
24/1/25	21:05	76.9		25/1/25	1:05	50.6		25/1/25	5:05	45.3		
24/1/25	21:10	77.2		25/1/25	1:10	50.5		25/1/25	5:10	47.4		
24/1/25	21:15	76.7		25/1/25	1:15	49.4		25/1/25	5:15	45.2		
24/1/25	21:20	77.3		25/1/25	1:20	52.4		25/1/25	5:20	46.9		
24/1/25	21:25	77.3		25/1/25	1:25	55.2		25/1/25	5:25	46.0		
24/1/25	21:30	77.5		25/1/25	1:30	53.6		25/1/25	5:30	46.1		
24/1/25	21:35	67.4	57.3	25/1/25	1:35	49.9	51.1	25/1/25	5:35	46.4	52.1	
24/1/25	21:40	71.2		25/1/25	1:40	48.4		25/1/25	5:40	47.3		
24/1/25	21:45	74.4		25/1/25	1:45	47.8		25/1/25	5:45	47.8		
24/1/25	21:50	62.3		25/1/25	1:50	48.4		25/1/25	5:50	48.7		
24/1/25	21:55	62.4		25/1/25	1:55	48.6		25/1/25	5:55	50.5		
24/1/25	22:00	61.9		25/1/25	2:00	49.4		25/1/25	6:00	50.0		
24/1/25	22:05	60.0		25/1/25	2:05	49.3		25/1/25	6:05	51.3		
24/1/25	22:10	59.0		25/1/25	2:10	55.7		25/1/25	6:10	51.8		
24/1/25	22:15	57.7		25/1/25	2:15	55.5		25/1/25	6:15	51.6		
24/1/25	22:20	57.4		25/1/25	2:20	51.6		25/1/25	6:20	50.7		
24/1/25	22:25	57.3	57.3	25/1/25	2:25	48.5	51.1	25/1/25	6:25	49.9	52.1	
24/1/25	22:30	56.1		25/1/25	2:30	47.8		25/1/25	6:30	50.9		
24/1/25	22:35	56.3		25/1/25	2:35	49.2		25/1/25	6:35	51.9		
24/1/25	22:40	56.6		25/1/25	2:40	47.5		25/1/25	6:40	52.0		
24/1/25	22:45	56.5		25/1/25	2:45	47.4		25/1/25	6:45	52.7		
24/1/25	22:50	56.0		25/1/25	2:50	47.9		25/1/25	6:50	53.0		
24/1/25	22:55	55.4		25/1/25	2:55	49.6		25/1/25	6:55	54.2		
24/1/25	23:00	56.9		25/1/25	3:00	50.1		25/1/25	7:00	53.7		

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM8 EIA Gillman Barracks								
REPORT REFERENCE			20/01/2025 - 27/01/2025								
Start	25/1/25	7:05	Leq12h			59.5	Weighting			A	
End	25/1/25	19:00									
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m			
25/1/25	7:05	53.9	25/1/25	11:05	56.9	25/1/25	15:05	65.3			
25/1/25	7:10	54.4	25/1/25	11:10	58.7	25/1/25	15:10	67.4			
25/1/25	7:15	54.5	25/1/25	11:15	61.1	25/1/25	15:15	64.8			
25/1/25	7:20	57.1	25/1/25	11:20	58.9	25/1/25	15:20	60.7			
25/1/25	7:25	58.0	25/1/25	11:25	60.2	25/1/25	15:25	59.1			
25/1/25	7:30	56.4	25/1/25	11:30	59.2	25/1/25	15:30	59.1			
25/1/25	7:35	56.5	25/1/25	11:35	58.5	25/1/25	15:35	57.4			
25/1/25	7:40	56.8	25/1/25	11:40	58.8	25/1/25	15:40	57.4			
25/1/25	7:45	56.4	25/1/25	11:45	57.5	25/1/25	15:45	57.1			
25/1/25	7:50	54.8	25/1/25	11:50	60.2	25/1/25	15:50	58.0			
25/1/25	7:55	56.5	25/1/25	11:55	61.3	25/1/25	15:55	56.7			
25/1/25	8:00	54.6	25/1/25	12:00	58.2	25/1/25	16:00	58.2			
25/1/25	8:05	57.7	25/1/25	12:05	59.2	25/1/25	16:05	58.6			
25/1/25	8:10	57.0	25/1/25	12:10	56.4	25/1/25	16:10	58.3			
25/1/25	8:15	57.1	25/1/25	12:15	60.2	25/1/25	16:15	58.0			
25/1/25	8:20	57.8	25/1/25	12:20	60.6	25/1/25	16:20	57.5			
25/1/25	8:25	59.0	25/1/25	12:25	59.9	25/1/25	16:25	56.0			
25/1/25	8:30	58.8	25/1/25	12:30	58.8	25/1/25	16:30	56.2			
25/1/25	8:35	57.9	25/1/25	12:35	54.5	25/1/25	16:35	56.8			
25/1/25	8:40	57.2	25/1/25	12:40	58.6	25/1/25	16:40	57.8			
25/1/25	8:45	58.8	25/1/25	12:45	60.6	25/1/25	16:45	56.2			
25/1/25	8:50	59.4	25/1/25	12:50	61.4	25/1/25	16:50	54.8			
25/1/25	8:55	56.3	25/1/25	12:55	60.0	25/1/25	16:55	53.2			
25/1/25	9:00	58.7	25/1/25	13:00	54.1	25/1/25	17:00	53.5			
25/1/25	9:05	55.7	25/1/25	13:05	52.4	25/1/25	17:05	56.8			
25/1/25	9:10	58.7	25/1/25	13:10	53.7	25/1/25	17:10	54.4			
25/1/25	9:15	56.5	25/1/25	13:15	52.8	25/1/25	17:15	52.8			
25/1/25	9:20	57.3	25/1/25	13:20	57.4	25/1/25	17:20	55.2			
25/1/25	9:25	56.6	25/1/25	13:25	56.1	25/1/25	17:25	54.7			
25/1/25	9:30	56.4	25/1/25	13:30	53.6	25/1/25	17:30	55.0			
25/1/25	9:35	59.5	25/1/25	13:35	57.8	25/1/25	17:35	52.5			
25/1/25	9:40	59.4	25/1/25	13:40	60.0	25/1/25	17:40	55.5			
25/1/25	9:45	57.3	25/1/25	13:45	58.5	25/1/25	17:45	52.6			
25/1/25	9:50	57.2	25/1/25	13:50	60.6	25/1/25	17:50	52.2			
25/1/25	9:55	56.8	25/1/25	13:55	65.2	25/1/25	17:55	52.8			
25/1/25	10:00	56.7	25/1/25	14:00	64.1	25/1/25	18:00	56.1			
25/1/25	10:05	58.9	25/1/25	14:05	59.9	25/1/25	18:05	57.3			
25/1/25	10:10	59.2	25/1/25	14:10	70.7	25/1/25	18:10	57.6			
25/1/25	10:15	58.0	25/1/25	14:15	68.8	25/1/25	18:15	57.1			
25/1/25	10:20	57.6	25/1/25	14:20	62.3	25/1/25	18:20	56.0			
25/1/25	10:25	59.5	25/1/25	14:25	68.8	25/1/25	18:25	57.5			
25/1/25	10:30	57.1	25/1/25	14:30	64.0	25/1/25	18:30	57.1			
25/1/25	10:35	58.1	25/1/25	14:35	58.8	25/1/25	18:35	57.4			
25/1/25	10:40	57.6	25/1/25	14:40	59.2	25/1/25	18:40	57.5			
25/1/25	10:45	56.3	25/1/25	14:45	58.4	25/1/25	18:45	56.5			
25/1/25	10:50	54.5	25/1/25	14:50	54.7	25/1/25	18:50	53.9			
25/1/25	10:55	57.7	25/1/25	14:55	55.8	25/1/25	18:55	55.2			
25/1/25	11:00	59.1	25/1/25	15:00	63.5	25/1/25	19:00	56.4			

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd									
SITE LOCATION			NM8 EIA Gillman Barracks									
REPORT REFERENCE			20/01/2025 - 27/01/2025									
Start	25/1/25		19:05	Leq12h			71.8		Weighting		A	
End	26/1/25		7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	
25/1/25	19:05	59.0	77.4	25/1/25	23:05	60.7	58.5	26/1/25	3:05	46.2	48.0	
25/1/25	19:10	59.7		25/1/25	23:10	59.0		26/1/25	3:10	46.7		
25/1/25	19:15	60.8		25/1/25	23:15	57.4		26/1/25	3:15	48.5		
25/1/25	19:20	66.2		25/1/25	23:20	59.3		26/1/25	3:20	50.0		
25/1/25	19:25	72.3		25/1/25	23:25	59.4		26/1/25	3:25	50.0		
25/1/25	19:30	77.7		25/1/25	23:30	61.1		26/1/25	3:30	48.4		
25/1/25	19:35	78.0		25/1/25	23:35	61.4		26/1/25	3:35	47.5		
25/1/25	19:40	79.2		25/1/25	23:40	58.7		26/1/25	3:40	45.9		
25/1/25	19:45	80.2		25/1/25	23:45	54.4		26/1/25	3:45	47.1		
25/1/25	19:50	80.4		25/1/25	23:50	53.4		26/1/25	3:50	46.9		
25/1/25	19:55	80.3	78.5	25/1/25	23:55	53.1	52.9	26/1/25	3:55	48.7	47.6	
25/1/25	20:00	80.3		25/1/25	0:00	53.0		26/1/25	4:00	47.4		
25/1/25	20:05	80.4		26/1/25	0:05	53.3		26/1/25	4:05	46.8		
25/1/25	20:10	79.4		26/1/25	0:10	52.5		26/1/25	4:10	47.3		
25/1/25	20:15	79.2		26/1/25	0:15	53.0		26/1/25	4:15	47.5		
25/1/25	20:20	78.7		26/1/25	0:20	52.4		26/1/25	4:20	47.6		
25/1/25	20:25	78.8		26/1/25	0:25	55.3		26/1/25	4:25	47.5		
25/1/25	20:30	78.6		26/1/25	0:30	53.1		26/1/25	4:30	48.0		
25/1/25	20:35	79.2		26/1/25	0:35	53.6		26/1/25	4:35	45.3		
25/1/25	20:40	79.0		26/1/25	0:40	53.3		26/1/25	4:40	46.7		
25/1/25	20:45	76.9	76.9	26/1/25	0:45	52.5	49.9	26/1/25	4:45	48.5	48.7	
25/1/25	20:50	72.0		26/1/25	0:50	52.2		26/1/25	4:50	48.8		
25/1/25	20:55	76.8		26/1/25	0:55	51.5		26/1/25	4:55	47.8		
25/1/25	21:00	78.1		26/1/25	1:00	50.5		26/1/25	5:00	48.0		
25/1/25	21:05	78.6		26/1/25	1:05	50.6		26/1/25	5:05	48.0		
25/1/25	21:10	79.4		26/1/25	1:10	51.9		26/1/25	5:10	47.8		
25/1/25	21:15	78.9		26/1/25	1:15	50.8		26/1/25	5:15	48.4		
25/1/25	21:20	75.1		26/1/25	1:20	49.4		26/1/25	5:20	48.5		
25/1/25	21:25	68.2		26/1/25	1:25	49.2		26/1/25	5:25	49.3		
25/1/25	21:30	76.6		26/1/25	1:30	49.3		26/1/25	5:30	48.0		
25/1/25	21:35	78.9	66.0	26/1/25	1:35	49.2	49.0	26/1/25	5:35	47.6	49.4	
25/1/25	21:40	77.1		26/1/25	1:40	49.4		26/1/25	5:40	49.6		
25/1/25	21:45	77.4		26/1/25	1:45	48.6		26/1/25	5:45	48.3		
25/1/25	21:50	72.9		26/1/25	1:50	49.1		26/1/25	5:50	48.9		
25/1/25	21:55	77.2		26/1/25	1:55	50.4		26/1/25	5:55	49.7		
25/1/25	22:00	71.1		26/1/25	2:00	49.7		26/1/25	6:00	49.9		
25/1/25	22:05	68.2		26/1/25	2:05	50.3		26/1/25	6:05	51.4		
25/1/25	22:10	68.0		26/1/25	2:10	50.1		26/1/25	6:10	49.4		
25/1/25	22:15	67.6		26/1/25	2:15	49.9		26/1/25	6:15	48.5		
25/1/25	22:20	66.7		26/1/25	2:20	47.9		26/1/25	6:20	47.6		
25/1/25	22:25	66.6	66.0	26/1/25	2:25	49.2	49.0	26/1/25	6:25	48.4	49.4	
25/1/25	22:30	66.6		26/1/25	2:30	49.4		26/1/25	6:30	48.5		
25/1/25	22:35	66.1		26/1/25	2:35	50.5		26/1/25	6:35	48.7		
25/1/25	22:40	65.7		26/1/25	2:40	49.2		26/1/25	6:40	49.8		
25/1/25	22:45	64.3		26/1/25	2:45	47.8		26/1/25	6:45	49.8		
25/1/25	22:50	62.7		26/1/25	2:50	47.2		26/1/25	6:50	47.4		
25/1/25	22:55	63.0		26/1/25	2:55	46.7		26/1/25	6:55	50.6		
25/1/25	23:00	60.4		26/1/25	3:00	47.2		26/1/25	7:00	50.8		

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM8 EIA Gillman Barracks						
REPORT REFERENCE			20/01/2025 - 27/01/2025						
Start	26/1/25	7:05	Leq12h	64.7	Weighting			A	
End	26/1/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m	
26/1/25	7:05	49.6	26/1/25	11:05	59.4	26/1/25	15:05	56.4	
26/1/25	7:10	49.8	26/1/25	11:10	58.8	26/1/25	15:10	59.7	
26/1/25	7:15	50.5	26/1/25	11:15	56.9	26/1/25	15:15	59.7	
26/1/25	7:20	50.5	26/1/25	11:20	59.9	26/1/25	15:20	60.1	
26/1/25	7:25	51.4	26/1/25	11:25	57.6	26/1/25	15:25	58.7	
26/1/25	7:30	51.4	26/1/25	11:30	59.2	26/1/25	15:30	57.8	
26/1/25	7:35	51.7	26/1/25	11:35	58.0	26/1/25	15:35	59.2	
26/1/25	7:40	52.1	26/1/25	11:40	58.5	26/1/25	15:40	61.9	
26/1/25	7:45	49.1	26/1/25	11:45	56.6	26/1/25	15:45	58.0	
26/1/25	7:50	51.3	26/1/25	11:50	56.4	26/1/25	15:50	57.2	
26/1/25	7:55	50.0	26/1/25	11:55	60.1	26/1/25	15:55	53.7	
26/1/25	8:00	53.4	26/1/25	12:00	58.4	26/1/25	16:00	56.5	
26/1/25	8:05	57.7	26/1/25	12:05	60.2	26/1/25	16:05	57.2	
26/1/25	8:10	53.9	26/1/25	12:10	61.8	26/1/25	16:10	52.7	
26/1/25	8:15	50.9	26/1/25	12:15	57.2	26/1/25	16:15	55.8	
26/1/25	8:20	50.1	26/1/25	12:20	56.8	26/1/25	16:20	57.0	
26/1/25	8:25	52.0	26/1/25	12:25	57.2	26/1/25	16:25	58.0	
26/1/25	8:30	51.3	26/1/25	12:30	57.1	26/1/25	16:30	55.6	
26/1/25	8:35	53.4	26/1/25	12:35	59.4	26/1/25	16:35	53.4	
26/1/25	8:40	53.0	26/1/25	12:40	59.5	26/1/25	16:40	53.0	
26/1/25	8:45	57.9	26/1/25	12:45	61.6	26/1/25	16:45	53.3	
26/1/25	8:50	57.3	26/1/25	12:50	61.4	26/1/25	16:50	52.3	
26/1/25	8:55	56.5	26/1/25	12:55	59.0	26/1/25	16:55	52.0	
26/1/25	9:00	51.3	26/1/25	13:00	60.1	26/1/25	17:00	51.8	
26/1/25	9:05	54.9	26/1/25	13:05	56.7	26/1/25	17:05	50.7	
26/1/25	9:10	59.4	26/1/25	13:10	55.2	26/1/25	17:10	55.8	
26/1/25	9:15	57.0	26/1/25	13:15	55.0	26/1/25	17:15	65.0	
26/1/25	9:20	58.0	26/1/25	13:20	57.1	26/1/25	17:20	75.2	
26/1/25	9:25	60.2	26/1/25	13:25	56.1	26/1/25	17:25	76.6	
26/1/25	9:30	56.2	26/1/25	13:30	55.8	26/1/25	17:30	76.2	
26/1/25	9:35	59.9	26/1/25	13:35	57.0	26/1/25	17:35	75.8	
26/1/25	9:40	58.8	26/1/25	13:40	54.1	26/1/25	17:40	75.7	
26/1/25	9:45	52.2	26/1/25	13:45	55.3	26/1/25	17:45	76.7	
26/1/25	9:50	54.4	26/1/25	13:50	57.1	26/1/25	17:50	74.5	
26/1/25	9:55	56.6	26/1/25	13:55	58.3	26/1/25	17:55	71.8	
26/1/25	10:00	56.4	26/1/25	14:00	57.7	26/1/25	18:00	74.1	
26/1/25	10:05	53.7	26/1/25	14:05	58.0	26/1/25	18:05	71.6	
26/1/25	10:10	53.3	26/1/25	14:10	57.6	26/1/25	18:10	69.2	
26/1/25	10:15	57.1	26/1/25	14:15	57.6	26/1/25	18:15	66.7	
26/1/25	10:20	58.3	26/1/25	14:20	59.8	26/1/25	18:20	66.3	
26/1/25	10:25	58.9	26/1/25	14:25	60.5	26/1/25	18:25	67.1	
26/1/25	10:30	59.0	26/1/25	14:30	57.9	26/1/25	18:30	64.9	
26/1/25	10:35	58.0	26/1/25	14:35	61.0	26/1/25	18:35	62.2	
26/1/25	10:40	59.3	26/1/25	14:40	57.1	26/1/25	18:40	58.5	
26/1/25	10:45	60.1	26/1/25	14:45	57.3	26/1/25	18:45	56.3	
26/1/25	10:50	60.6	26/1/25	14:50	59.5	26/1/25	18:50	56.4	
26/1/25	10:55	60.8	26/1/25	14:55	58.7	26/1/25	18:55	56.9	
26/1/25	11:00	60.0	26/1/25	15:00	54.8	26/1/25	19:00	57.0	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM8 EIA Gillman Barracks								
REPORT REFERENCE			20/01/2025 - 27/01/2025								
Start	26/1/25		19:05	Leq12h		70.3		Weighting		A	
End	27/1/25		7:00								
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
26/1/25	19:05	56.0	67.5	26/1/25	23:05	79.5	77.3	27/1/25	3:05	51.3	48.1
26/1/25	19:10	54.7		26/1/25	23:10	79.4		27/1/25	3:10	52.0	
26/1/25	19:15	54.2		26/1/25	23:15	75.9		27/1/25	3:15	46.4	
26/1/25	19:20	52.1		26/1/25	23:20	73.9		27/1/25	3:20	46.7	
26/1/25	19:25	53.0		26/1/25	23:25	78.0		27/1/25	3:25	47.0	
26/1/25	19:30	52.3		26/1/25	23:30	79.2		27/1/25	3:30	47.3	
26/1/25	19:35	62.6		26/1/25	23:35	79.6		27/1/25	3:35	47.6	
26/1/25	19:40	64.0		26/1/25	23:40	78.6		27/1/25	3:40	47.5	
26/1/25	19:45	66.3		26/1/25	23:45	73.8		27/1/25	3:45	46.2	
26/1/25	19:50	67.1		26/1/25	23:50	78.8		27/1/25	3:50	46.8	
26/1/25	19:55	76.1	70.4	26/1/25	23:55	55.3	52.0	27/1/25	3:55	46.5	46.8
26/1/25	20:00	70.5		26/1/25	0:00	52.4		27/1/25	4:00	46.2	
26/1/25	20:05	74.1		27/1/25	0:05	53.0		27/1/25	4:05	45.3	
26/1/25	20:10	73.5		27/1/25	0:10	51.2		27/1/25	4:10	45.4	
26/1/25	20:15	75.8		27/1/25	0:15	53.3		27/1/25	4:15	45.3	
26/1/25	20:20	74.0		27/1/25	0:20	53.4		27/1/25	4:20	50.2	
26/1/25	20:25	69.8		27/1/25	0:25	52.8		27/1/25	4:25	46.9	
26/1/25	20:30	65.5		27/1/25	0:30	52.4		27/1/25	4:30	46.9	
26/1/25	20:35	63.6		27/1/25	0:35	51.7		27/1/25	4:35	47.1	
26/1/25	20:40	60.8		27/1/25	0:40	52.0		27/1/25	4:40	46.3	
26/1/25	20:45	60.5	64.1	27/1/25	0:45	51.5	49.1	27/1/25	4:45	46.3	47.2
26/1/25	20:50	59.4		27/1/25	0:50	51.3		27/1/25	4:50	46.2	
26/1/25	20:55	56.8		27/1/25	0:55	50.0		27/1/25	4:55	46.4	
26/1/25	21:00	55.8		27/1/25	1:00	49.6		27/1/25	5:00	46.5	
26/1/25	21:05	56.5		27/1/25	1:05	49.6		27/1/25	5:05	45.5	
26/1/25	21:10	60.8		27/1/25	1:10	48.5		27/1/25	5:10	44.7	
26/1/25	21:15	61.8		27/1/25	1:15	48.1		27/1/25	5:15	46.4	
26/1/25	21:20	62.9		27/1/25	1:20	50.1		27/1/25	5:20	47.1	
26/1/25	21:25	64.8		27/1/25	1:25	49.8		27/1/25	5:25	45.6	
26/1/25	21:30	64.4		27/1/25	1:30	48.7		27/1/25	5:30	46.7	
26/1/25	21:35	65.0	77.4	27/1/25	1:35	48.1	48.4	27/1/25	5:35	47.6	52.2
26/1/25	21:40	66.0		27/1/25	1:40	48.1		27/1/25	5:40	47.3	
26/1/25	21:45	65.8		27/1/25	1:45	48.5		27/1/25	5:45	48.2	
26/1/25	21:50	65.2		27/1/25	1:50	47.8		27/1/25	5:50	47.9	
26/1/25	21:55	64.9		27/1/25	1:55	50.2		27/1/25	5:55	48.9	
26/1/25	22:00	64.2		27/1/25	2:00	50.5		27/1/25	6:00	48.5	
26/1/25	22:05	64.0		27/1/25	2:05	47.2		27/1/25	6:05	49.5	
26/1/25	22:10	64.8		27/1/25	2:10	49.3		27/1/25	6:10	50.1	
26/1/25	22:15	65.4		27/1/25	2:15	47.8		27/1/25	6:15	51.4	
26/1/25	22:20	71.6		27/1/25	2:20	47.8		27/1/25	6:20	51.5	
26/1/25	22:25	78.5	77.4	27/1/25	2:25	48.8	48.4	27/1/25	6:25	52.2	52.2
26/1/25	22:30	79.3		27/1/25	2:30	48.5		27/1/25	6:30	51.9	
26/1/25	22:35	79.6		27/1/25	2:35	49.2		27/1/25	6:35	52.5	
26/1/25	22:40	79.5		27/1/25	2:40	48.8		27/1/25	6:40	51.9	
26/1/25	22:45	78.5		27/1/25	2:45	48.5		27/1/25	6:45	53.2	
26/1/25	22:50	78.6		27/1/25	2:50	48.1		27/1/25	6:50	52.1	
26/1/25	22:55	78.8		27/1/25	2:55	48.5		27/1/25	6:55	53.3	
26/1/25	23:00	78.9		27/1/25	3:00	47.8		27/1/25	7:00	54.3	

CONFIDENTIAL

BASELINE NOISE SURVEY REPORT
NOISE MONITORING ENVIRONMENTAL WORK

REPORT REFERENCE NO: - 25021308/nms/ch2m/NM9GB/NM9

For

CH2M HILL SINGAPORE PTE LTD
150 Beach Road, Gateway West 34th Floor, Singapore 189720

Project Location:
NM9 EIA Gillman Barracks

Attention:
Ms Alicia Wong

Project Title.:
Baseline Noise Survey @ NM9 EIA Gillman Barracks

Monitoring Location:
Gillman Barracks

Date of Monitoring:
20 January 2025 - 27 January 2025

Date of Report:
13 February 2025

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	TABLE OF CONTENT	PAGE
1.0	INTRODUCTION	3
2.0	NOISE SURVEY CONDITION	3
3.0	INSTRUMENTS	4
4.0	NOISE SURVEY TERMS	5
5.0	SURVEYING LOCATIONS	6
6.0	NOISE SURVEY RESULTS	7
7.0	SUMMARY	12
8.0	CONFIRMATION	12
	APPENDIX	
	APPENDIX A: INSTRUMENT LAYOUT PLAN	13
	APPENDIX B: NEA CONSTRUCTION NOISE CONTROL GUIDELINE	14
	APPENDIX C: NOISE MONITORING OFFICER CERTIFICATES	15
	APPENDIX D: INSTRUMENT CALIBRATION CERTIFICATES	17
	APPENDIX E: NOISE DATA	19

1.0 INTRODUCTION

ENSSCOM PTE LTD was commissioned by:

CH2M HILL Singapore Pte Ltd
150 Beach Road, Gateway West 34th Floor, Singapore 189720

The purpose of this survey was to assess the current acoustical environment to establish the baseline background noise level generated before start of construction activities for
Project Title - Baseline Noise Survey @ NM9 EIA Gillman Barracks

The survey is conducted in accordance to the Construction Noise control Guideline on NEA's permissible noise levels for construction sites and industrial premises.

2.0 NOISE SURVEY CONDITION

Report Reference No: 25021308/nms/ch2m/NM9GB/NM9

Date of Report: 13-Feb-2025

Survey On: 20-Jan-2025 (0700hrs) to 27-Jan-2025 (0700hrs)

Operating Condition of Site: All operations were under normal conditions during the noise survey. Construction activities have not begun during period of noise monitoring.

Noise survey was conducted using accepted standard procedures and appropriate sound measuring equipment, which is properly calibrated to ensure accuracy.

All noise measurements were made in terms of A-weighted equivalent continuous sound pressure level in LAeq,T over a period of time T. For example, LAeq,5min are the equivalent sound pressure level measured over a 5-minutes time.

Noise survey was conducted for a full continuous twenty-four (24) hours, Seven (7) days, for **One (1) monitoring points/location**. The noise levels emitted were monitored accordingly and recorded.

The survey is conducted by qualified noise monitoring personnel and reference to Appendix C for their certificate.

3.0 INSTRUMENTS

Monitoring instrument was positioned at between 1.8 meters to 3 meters in height from the floor (Ground Level), Mid Level (5 – 6 storey building height) Or High Level (Roof Level). Overall noise distribution was fairly homogenous throughout the duration of noise survey.

Sound Level Meter used complies and conform to the minimum requirements of a Type 1/Class 1 instrument specified in the International Electrotechnical Commission (IEC) publications of 60651 and 60804.

Before and after the noise measurements, the sound level meter is calibrated to verify the accuracy of the instrument.

3.1 Sound Level Meters

CIRRUS RESEARCH plc, Model: CR191SG
Class 1 Data Logging Sound Level Meter
Serial Number: **G068704**

3.2 Acoustic Calibrator

CIRRUS RESEARCH plc, Model: CR515
Acoustic Calibrator
Serial Number: **60614**

Acoustic Pressure level:	94.01 dB	(reference 20uPa)
Step +20dB:	113.93 dB	
Nominal Frequency:	992 Hz	

The calibration certificate of the monitoring instrument can be found in Appendix D

4.0 NOISE SURVEY TERMS

- 4.1 A Weighting
A standard weighting of the audible frequencies designed to reflect the response of the human ear to noise.
- 4.2 Acoustic Calibrator
An instrument that provides a reference noise source that is used to calibrate and check the performance of a Sound Level Meter.
- 4.3 Broadband
Noise Measurements using parameters, which include all the audible noise
- 4.4 dB(A)
Decibels A Weighted
- 4.5 Decibel (dB)
The units of sound level and noise exposure measurement
- 4.6 Fast Time Weighting
A standard time weighting applied by the Sound Level Meter
- 4.7 IEC 60651:1979
The International Standard for Sound Level Meters
- 4.8 IEC 60804:1984
The International Standard for Integrating & Integrating-Averaging Sound Level Meters
- 4.9 IEC 61260:1995
The International Standard for 1:1 Octave & 1:3 Octave Band Filters
- 4.10 IEC 61672-1:2003
The International Standard for Sound Level Meter and Integrating Averaging Sound Level Meters that replaces both IEC 60651 and IEC 60804
- 4.11 Integrating Averaging Sound Level Meter
A Sound Level Meter which accumulates the total sound energy over a measurement period and calculates an average
- 4.12 LAeq,t
Equivalent continuous sound pressure level. A measure of the average sound pressure level during a period of time, t, in dB with 'A' weighting.
- 4.13 Sound Level
Sound Pressure Level with a Frequency weighting, such as dB(A)
- 4.14 Sound Level Meter
An instrument for measuring various noise parameters
- 4.15 Sound Pressure Level, SPL.
The basic measure of noise loudness, expressed in decibels

6.0 NOISE SURVEY RESULTS

The noise survey was carried out in accordance with the Environmental Pollution Control Act (Chapter 94A, Section 77(1)), Environmental Pollution Control (Control of Noise at Construction Sites) Regulations, 1999.

Monday to Saturday

Types of Affected Building	Maximum Noise Level Permitted for construction sites (reckoned as an equivalent continuous noise level over a period of 5 minutes) in decibel (A)		
	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospitals, Schools, Institutions of Higher Learning, Homes for aged, Sick, etc	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	60 (LEQ 12hr)	50 (LEQ 12hr)	
(b) Residential Buildings Located less than 150m from the construction site where noise is being emitted	90 (Leq 5min)	70 (Leq 5min)	55 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 1hr)	55 (LEQ 1hr)
(c) Buildings (other than those in Paragraphs (a) and (b) above	90 (Leq 5min)	70 (Leq 5min)	70 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 12hr)	

Sunday and Public Holidays

Types of Affected Building	Maximum Noise Level Permitted for construction sites (reckoned as an equivalent continuous noise level over a period of 5 minutes) in decibel (A)		
	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospitals, Schools, Institutions of Higher Learning, Homes for aged, Sick, etc	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	60 (LEQ 12hr)	50 (LEQ 12hr)	
(b) Residential Buildings Located less than 150m from the construction site where noise is being emitted	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	75 (LEQ 12hr)	-	-
(c) Buildings (other than those in Paragraphs (a) and (b) above	90 (Leq 5min)	70 (Leq 5min)	70 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 12hr)	

Note:

No Work Rule on Sundays and Public Holidays

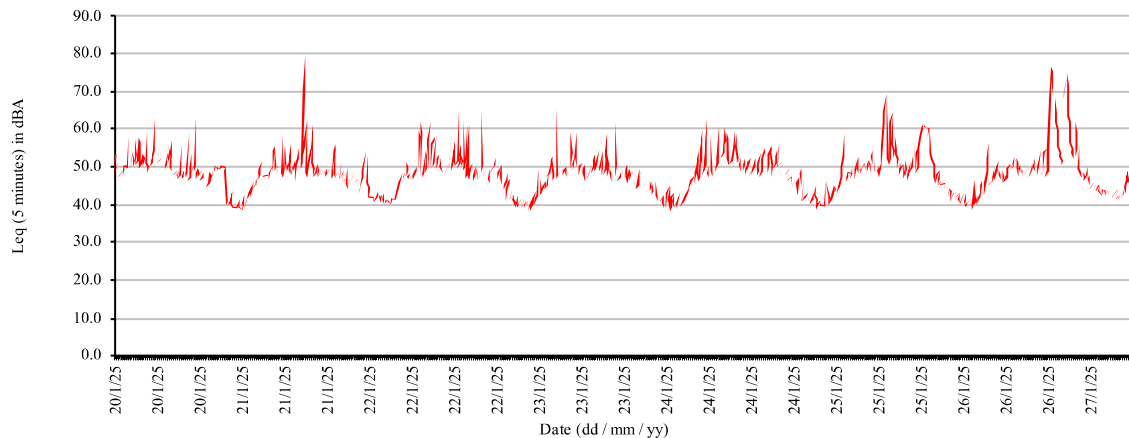
In addition to the settings of the permissible noise limits, NEA has also implemented a rule on prohibition of work on Sundays and Public Holidays (PH) for construction sites located within 150m away from residential premises and noise sensitive premises as follows:

Site Established from 1 September 2011. No work is allowed from 10.00pm on Sat/eve of PH to 7.00am on the following Mon/day after the PH. (For details, please refer to Appendix B)

Survey Results for monitoring point 1 from period : 20-Jan-2025 to 27-Jan-2025

Location : Gillman Barracks

Leq (5 Minutes) Plotted Against Date of Monitoring



Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 5 min in Leq db(A)	Maximum Noise Level permitted for construction sites Leq 5min db (A)
No. NM-9		From		To			
Gillman Barracks	Mon	20/1/25	0700	20/1/25	1900	62.7	90
	Mon	20/1/25	1900	20/1/25	2200	62.4	70
	Mon/Tue	20/1/25	2200	21/1/25	0700	50.7	70
	Tue	21/1/25	0700	21/1/25	1900	79.5	90
	Tue	21/1/25	1900	21/1/25	2200	56.1	70
	Tue/Wed	21/1/25	2200	22/1/25	0700	54.1	70
	Wed	22/1/25	0700	22/1/25	1900	65.2	90
	Wed	22/1/25	1900	22/1/25	2200	64.5	70
	Wed/Thu	22/1/25	2200	23/1/25	0700	50.7	70
	Thu	23/1/25	0700	23/1/25	1900	65.8	90
	Thu	23/1/25	1900	23/1/25	2200	50.8	70
	Thu/Fri	23/1/25	2200	24/1/25	0700	50.7	70
	Fri	24/1/25	0700	24/1/25	1900	63.1	90
	Fri	24/1/25	1900	24/1/25	2200	56.7	70
	Fri/Sat	24/1/25	2200	25/1/25	0700	49.9	70
	Sat	25/1/25	0700	25/1/25	1900	69.6	90
	Sat	25/1/25	1900	25/1/25	2200	61.2	70
	Sat/Sun	25/1/25	2200	26/1/25	0700	52.2	70
	Sun	26/1/25	0700	26/1/25	1900	76.1	90
	Sun	26/1/25	1900	26/1/25	2200	74.7	70
Sun/Mon	26/1/25	2200	27/1/25	0700	51.9	70	

Table 6.1 Summary of Noise Monitoring Results at Maximum Equivalent of LEQ 5 min

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 1 hr in Leq db(A) for the specific period	Maximum Noise Level permitted for construction sites Leq 1 hr db (A)
No. NM-9		From		To			
Gillman Barracks	Mon	20/1/25	1900	20/1/25	2200	53.2	-
	Mon	20/1/25	2200	21/1/25	0700	49.7	-
	Tue	21/1/25	1900	21/1/25	2200	50.3	-
	Tue	21/1/25	2200	22/1/25	0700	49.6	-
	Wed	22/1/25	1900	22/1/25	2200	55.1	-
	Wed	22/1/25	2200	23/1/25	0700	48.1	-
	Thu	23/1/25	1900	23/1/25	2200	48.4	-
	Thu	23/1/25	2200	24/1/25	0700	47.3	-
	Fri	24/1/25	1900	24/1/25	2200	52.7	-
	Fri	24/1/25	2200	25/1/25	0700	46.7	-
	Sat	25/1/25	1900	25/1/25	2200	60.5	-
	Sat	25/1/25	2200	26/1/25	0700	48.3	-
	Sun	26/1/25	1900	26/1/25	2200	69.2	-
	Sun	26/1/25	2200	27/1/25	0700	48.7	-

Table 6.2 Summary of Noise Monitoring Results at Maximum Equivalent of LEQ 1 hr

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 12 hr in Leq db(A)	Maximum Noise Level permitted for construction sites Leq 12 hr db (A)
No. NM-9		From		To			
Gillman Barracks	Mon	20/1/25	0700	20/1/25	1900	52.5	75
	Mon	20/1/25	1900	21/1/25	0700	47.7	65
	Tue	21/1/25	0700	21/1/25	1900	59.2	75
	Tue	21/1/25	1900	22/1/25	0700	46.3	65
	Wed	22/1/25	0700	22/1/25	1900	53.8	75
	Wed	22/1/25	1900	23/1/25	0700	48.0	65
	Thu	23/1/25	0700	23/1/25	1900	51.5	75
	Thu	23/1/25	1900	24/1/25	0700	45.2	65
	Fri	24/1/25	0700	24/1/25	1900	53.1	75
	Fri	24/1/25	1900	25/1/25	0700	47.3	65
	Sat	25/1/25	0700	25/1/25	1900	56.0	75
	Sat	25/1/25	1900	25/1/25	0700	52.9	65
	Sun	25/1/25	0700	26/1/25	1900	63.3	75
	Sun	26/1/25	1900	27/1/25	0700	61.2	65

Table 6.3 Summary of Noise Monitoring Results at LEQ 12 hr

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over specific period in Leq db(A)	Maximum Noise Level permitted for construction sites in db (A)
No. NM-9		From		To			
Gillman Barracks	Mon	20/1/25	700	20/1/25	1900	52.5	90(Leq5min) 75 (Leq12hrs)
	Mon	20/1/25	1900	20/1/25	2200	50.6	70 (Leq5min)
	Mon	20/1/25	2200	21/1/25	0000	48.4	70 (Leq5min)
	Tue	21/1/25	0000	21/1/25	700	45.0	70 (Leq5min)
	Tue	21/1/25	700	21/1/25	1900	59.2	90(Leq5min) 75 (Leq12hrs)
	Tue	21/1/25	1900	21/1/25	2200	48.5	70 (Leq5min)
	Tue	21/1/25	2200	22/1/25	0000	46.2	70 (Leq5min)
	Wed	22/1/25	0000	22/1/25	700	45.0	70 (Leq5min)
	Wed	22/1/25	700	22/1/25	1900	53.8	90(Leq5min) 75 (Leq12hrs)
	Wed	22/1/25	1900	22/1/25	2200	52.2	70 (Leq5min)
	Wed	22/1/25	2200	23/1/25	0000	46.9	70 (Leq5min)
	Thu	23/1/25	0000	23/1/25	700	43.7	70 (Leq5min)
	Thu	23/1/25	700	23/1/25	1900	51.5	90(Leq5min) 75 (Leq12hrs)
	Thu	23/1/25	1900	23/1/25	2200	47.9	70 (Leq5min)
	Thu	23/1/25	2200	24/1/25	0000	45.6	70 (Leq5min)
	Fri	24/1/25	0000	24/1/25	700	43.1	70 (Leq5min)
	Fri	24/1/25	700	24/1/25	1900	53.1	90(Leq5min) 75 (Leq12hrs)
	Fri	24/1/25	1900	24/1/25	2200	51.5	70 (Leq5min)
	Fri	24/1/25	2200	25/1/25	0000	46.0	70 (Leq5min)
	Sat	25/1/25	0000	25/1/25	700	42.9	70 (Leq5min)
	Sat	25/1/25	700	25/1/25	1900	56.0	90(Leq5min) 75 (Leq12hrs)
	Sat	25/1/25	1900	25/1/25	2200	58.4	70 (Leq5min)
	Sat	25/1/25	2200	26/1/25	0000	47.1	70 (Leq5min)
	Sun	26/1/25	0000	26/1/25	700	43.3	70 (Leq5min)
	Sun	26/1/25	700	26/1/25	1900	63.3	90(Leq5min) 75 (Leq12hrs)
	Sun	26/1/25	1900	26/1/25	2200	67.1	70 (Leq5min)
	Sun	26/1/25	2200	26/1/25	0000	48.1	70 (Leq5min)
	Mon	27/1/25	0000	27/1/25	0700	44.5	70 (Leq5min)

Table 6.4 Summary of Noise Monitoring Results at Continuous Equivalent of LEQ for specific period

7.0 SUMMARY

The purpose of this survey was to assess the current acoustical environment to establish the background noise level generated over One (1) monitoring point/location for continuous twenty-four (24) hours and seven (7) days noise monitoring at the boundary of the project site for Project Title

Baseline Noise Survey @ NM9 EIA Gillman Barracks

The location of the nearest Noise Receiver (NSR) :

Gillman Barracks

The findings show that,

The ambience noise at NSR Point NM9 at Gillman Barracks Area, falls within the Permissible limits stated in the NEA Guideline on construction noise control for most of the time period daily.

* Refer to Appendix E for full noise data report.

We recommend submitting an appeal to NEA to adjust the Noise Limit as in table 6.5 for NSR Point NM9 at Gillman Barracks Area

Background Noise Correction Factor

The adjusted value for the maximum noise level shall be obtained by adding the correction factor corresponding to the difference between the maximum permitted level and the background noise level, set out in the Table below, to the higher of the 2 noise levels.

Difference between 2 noise levels in decibels (A)	Correction factor in decibels (A)
a) Below 2	3
b) 2 to less than 4	2
c) 4 to less than 10	1
d) 10 and above	NIL

Proposed New Permissible Noise Level for monitoring point: **Gillman Barracks**

Period	Noise Limit	*Equivalent continuous sound level over period in Leq dB(A) - Background Noise	Difference	Correction Factor	Proposed Adjusted New Permissible Level (dBA)
7am to 7pm (Monday to Saturday)	90 (Leq 5min)	59.2	30.8	0	90 (Leq 5min)
	75 (Leq 12hr)	59.2	15.8	0	75 (Leq 12hr)
7pm to 10pm (Monday to Saturday)	70 (Leq 5min)	58.4	11.6	0	70 (Leq 5min)
10pm to 12am (Monday to Saturday)	70 (Leq 5min)	48.4	21.6	0	70 (Leq 5min)
12am to 7am (Monday to Saturday)	70 (Leq 5min)	45.0	25.0	0	70 (Leq 5min)
7pm to 7am (Monday to Saturday)	65 (Leq 12hrs)	52.9	12.1	0	65 (Leq 12hr)
7am to 7pm (Sunday)	90 (Leq 5min)	64.7	25.3	0	90 (Leq 5min)
	75 (Leq 12hr)	64.7	10.3	0	75 (Leq 12hr)
7pm to 10pm (Sunday)	70 (Leq 5min)	63.3	6.7	1	71 (Leq 5min)
10pm to 12am (Sunday)	70 (Leq 5min)	48.1	21.9	0	70 (Leq 5min)
12am to 7am (Sunday)	70 (Leq 5min)	43.3	26.7	0	70 (Leq 5min)
7pm to 7am (Sunday)	65 (Leq 12hrs)	61.2	3.8	2	67 (Leq 12hr)

* The highest equivalent continuous sound level in Leq dB(A) between Monday to Saturday is taken for calculating the adjusted new permissible level for each period.

Table 6.5 Proposed New Permissible Noise Level

8.0 CONFIRMATION

We, ENSSCOM PTE LTD, certify that the information given is correct. The noise survey was conducted for

CH2M HILL Singapore Pte Ltd

150 Beach Road, Gateway West 34th Floor, Singapore 189720

To carry out One (1) monitoring points/locations for continuous twenty-four (24) hours and seven (7) days noise monitoring at the boundary of the project site for Project Title

Baseline Noise Survey @ NM9 EIA Gillman Barracks

was carried out as described in this report and the results resented herein.

Date of Monitoring:

From 20/1/25 (0700hrs) to 27/1/25 (0700hrs)

Hoo Hian Choon (Mr)
Noise Monitoring Consultant
13-Feb-2025

APPENDIX A : INSTRUMENT LAYOUT PLAN



APPENDIX B: NEA CONSTRUCTION NOISE CONTROL GUIDELINE

Construction Noise Control

Maximum Permissible Noise Levels for Construction Work Commenced on or after 1st October 2007

Noise Regulation

Mondays to Saturdays

Types of affected buildings	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospital, schools, institutions of higher learning, homes for aged sick, etc.	60 dBA (Leq* 12 hrs)	50 dBA (Leq 12 hrs)	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(b) Residential buildings located less than 150m from the construction site	75 dBA (Leq 12 hrs)	65 dBA (Leq 1 hr)	55 dBA (Leq 1 hr)
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)
(c) Buildings other than those in (a) and (b) above	75 dBA (Leq 12 hrs)	65 dBA (Leq 12 hrs)	
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	

Sundays and Public Holidays

Types of affected buildings	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospital, schools, institutions of higher learning, homes for aged sick, etc.	60 dBA (Leq* 12 hrs)	50 dBA (Leq 12 hrs)	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(b) Residential buildings located less than 150m from the construction site	75 dBA (Leq 12 hrs)	-	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(c) Buildings other than those in (a) and (b) above	75 dBA (Leq 12 hrs)	65 dBA (Leq 12 hrs)	
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	

APPENDIX C: NOISE MONITORING OFFICER CERTIFICATES

S/No: 02/20/159



Acoustical Laboratory Pte Ltd
CENTRE FOR ENVIRONMENTAL CONSULTATION AND TRAINING

Certificate of Competence

This is to certify that

Hoo Hian Choon

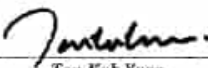
has attended and passed an examination
for a course on

Noise Monitoring

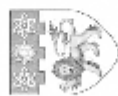
held between 22nd May 2002 and 24th May 2002

Acoustical Laboratory is approved by the Ministry of
Labour as a Training Centre for the
Noise Monitoring Course




Tan Kok Yang
Course Co-ordinator


Koh L. B.
Managing Director



NANYANG
TECHNOLOGICAL
UNIVERSITY

This is to certify that

Hoo Hian Choon

has successfully completed the 2½-day course

Industrial Noise Control

A handwritten signature in black ink, reading "Seah Ben Han".

Seah Ben Han
Director
Centre for Continuing Education

27 August 2010

APPENDIX D: INSTRUMENT CALIBRATION CERTIFICATES



Certificate of Calibration

Equipment Details

Instrument Manufacturer	Cirrus Research plc
Instrument Type	CIR 191 5G
Description	Sound Level Meter
Serial Number	G068704

Calibration Procedure

The instrument detailed above have been calibrated to the publish test and calibration data as detailed in the instrument hand book, using the techniques recommended in the latest revisions of the International Standards IEC 61672-1:2013, IEC 61672-1:2002, IEC 60651:1979, IEC 60804: 2001, IEC 61260:1993, IEC 60942:2003, IEC 60942:1997, IEC 61252:1993, ANSI S1.4-1983, ANSI S1.11-1986 and ANSI S1.43-1997 where applicable.
Sound Level Meters: All Calibration procedures were carried out by substituting the microphone capsule with a suitable electrical signal, apart from the final acoustic calibration.

Calibration Traceability

The instrument detailed above was calibrated against the calibration laboratory standards held by Cirrus Research plc. These are traceable to International Standards (A.0.0). The standards are:

Multi Acoustic Calibrator	B & K 4226	Serial Number	3041343	Calibration Ref.	5512200K5662242
Microphone Type	MK 224	Serial Number	214953B	Calibration Ref.	187039

Calibrated by

Calibration Date

1 May 2024

Calibration Certificate Number

213648

This Calibration Certificate is valid for 12 months from the date above.

Cirrus Research plc, Acoustic House, Bridlington Road, Hummaby, North Yorkshire, YO14 0PH
Telephone: +44 (0) 1723 891655 Fax: +44 (0) 1723 891742
Email: sales@cirrusresearch.co.uk

CERTIFICATE OF CALIBRATION

ISSUED BY: Cirrus Research plc

DATE OF ISSUE: 03 January 2025 CERTIFICATE NUMBER: 229571



Cirrus Research plc
Acoustic House
Bridlington Road
Hunmanby
North Yorkshire
YO14 0PH
United Kingdom

Page 1 of 2

Approved signatory
A. Windress
Electronically signed:

Sound Calibrator : IEC 60942:2003

Instrument information

Manufacturer: Cirrus Research plc

Notes:

Model: CR-515

Serial number: 60514

Class: 1

Test summary

Date of calibration: 03 January 2025

The sound calibrator detailed above has been calibrated to the published data as described in the operating manual and in the half-inch configuration. The procedures and techniques used are as described in IEC60942_2003 Annex B – Periodic Tests and three determinations of the sound pressure level, frequency and total distortion were made.

The sound pressure level was measured using a WS2F condenser microphone type MK-224 manufactured by Cirrus Research plc.

The results have been corrected to the reference pressure of 101.33 kPa using the manufacturer's data.

As public evidence was available, from a testing organisation responsible for approving the results of pattern evaluation tests, to demonstrate that the model of sound calibrator fully conformed to the requirements for pattern evaluation described in Annex A of IEC 60942:2003, the sound calibrator tested is considered to conform to all the Class 1 requirements of IEC 60942:2003.

The manufacturer's product information indicates that this model of sound calibrator has been formally pattern approved to IEC60942_2003 Annex A to Class 1. This has been confirmed by Laboratoire National d'Essais (LNE), Physikalisch-Technische Bundesanstalt (PTB) and APPLUS (APPLUS).

Notes:

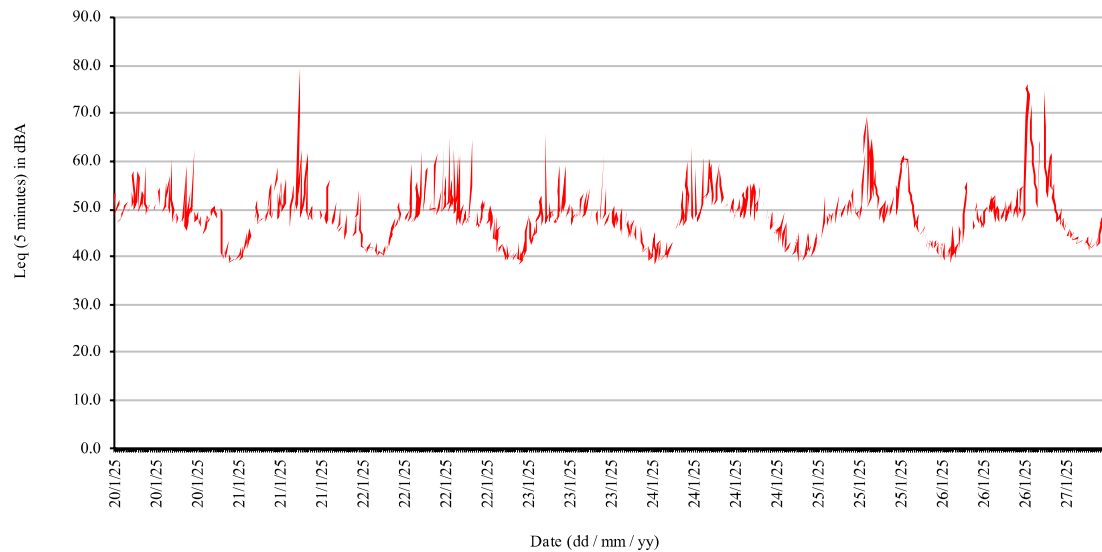
This certificate provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory. The results within this certificate relate only to the items calibrated. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%.

APPENDIX E

CONSTRUCTION SITE NOISE MONITORING DATA AND CHART

NAME OF COMPANY	CH2M HILL Singapore Pte Ltd		
SITE LOCATION	NM9 EIA Gillman Barracks		
REPORT REFERENCE	20/01/2025 - 27/01/2025		
MODE	Environment	FREQUENCY WEIGHTING	A

Leq (5 Minutes) Plotted Against Date of Monitoring



NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM9 EIA Gillman Barracks								
REPORT REFERENCE			20/01/2025 - 27/01/2025								
Start	20/1/25		7:05	Leq12h	52.5		Weighting		A		
End	20/1/25		19:00								
Date	Time	Leq5m		Date	Time	Leq5m		Date	Time	Leq5m	
20/1/25	7:05	53.2		20/1/25	11:05	51.0		20/1/25	15:05	51.3	
20/1/25	7:10	48.7		20/1/25	11:10	50.4		20/1/25	15:10	58.6	
20/1/25	7:15	48.8		20/1/25	11:15	49.3		20/1/25	15:15	59.3	
20/1/25	7:20	48.7		20/1/25	11:20	51.1		20/1/25	15:20	49.5	
20/1/25	7:25	48.0		20/1/25	11:25	51.5		20/1/25	15:25	50.5	
20/1/25	7:30	48.6		20/1/25	11:30	53.4		20/1/25	15:30	51.0	
20/1/25	7:35	51.2		20/1/25	11:35	53.3		20/1/25	15:35	51.1	
20/1/25	7:40	51.0		20/1/25	11:40	52.7		20/1/25	15:40	55.4	
20/1/25	7:45	51.9		20/1/25	11:45	52.9		20/1/25	15:45	50.5	
20/1/25	7:50	47.1		20/1/25	11:50	52.2		20/1/25	15:50	50.9	
20/1/25	7:55	48.0		20/1/25	11:55	49.8		20/1/25	15:55	50.5	
20/1/25	8:00	47.4		20/1/25	12:00	59.1		20/1/25	16:00	52.4	
20/1/25	8:05	48.8		20/1/25	12:05	51.2		20/1/25	16:05	53.6	
20/1/25	8:10	49.1		20/1/25	12:10	51.3		20/1/25	16:10	57.2	
20/1/25	8:15	48.1		20/1/25	12:15	51.4		20/1/25	16:15	50.1	
20/1/25	8:20	49.4		20/1/25	12:20	51.6		20/1/25	16:20	50.2	
20/1/25	8:25	47.6		20/1/25	12:25	50.3		20/1/25	16:25	50.0	
20/1/25	8:30	49.0		20/1/25	12:30	48.6		20/1/25	16:30	48.8	
20/1/25	8:35	50.0		20/1/25	12:35	48.7		20/1/25	16:35	48.5	
20/1/25	8:40	49.3		20/1/25	12:40	49.1		20/1/25	16:40	60.3	
20/1/25	8:45	50.4		20/1/25	12:45	51.2		20/1/25	16:45	51.8	
20/1/25	8:50	50.6		20/1/25	12:50	50.1		20/1/25	16:50	49.9	
20/1/25	8:55	50.4		20/1/25	12:55	50.7		20/1/25	16:55	47.8	
20/1/25	9:00	50.2		20/1/25	13:00	51.0		20/1/25	17:00	49.0	
20/1/25	9:05	51.6		20/1/25	13:05	51.4		20/1/25	17:05	47.1	
20/1/25	9:10	49.4		20/1/25	13:10	54.5		20/1/25	17:10	47.8	
20/1/25	9:15	58.2		20/1/25	13:15	50.7		20/1/25	17:15	47.7	
20/1/25	9:20	49.3		20/1/25	13:20	54.3		20/1/25	17:20	48.8	
20/1/25	9:25	48.9		20/1/25	13:25	62.7		20/1/25	17:25	48.5	
20/1/25	9:30	49.9	20/1/25	13:30	56.1	20/1/25	17:30	48.0			
20/1/25	9:35	49.4	20/1/25	13:35	49.5	20/1/25	17:35	47.0			
20/1/25	9:40	51.0	20/1/25	13:40	51.2	20/1/25	17:40	47.7			
20/1/25	9:45	50.2	20/1/25	13:45	49.8	20/1/25	17:45	55.7			
20/1/25	9:50	50.5	20/1/25	13:50	51.2	20/1/25	17:50	48.8			
20/1/25	9:55	53.8	20/1/25	13:55	50.3	20/1/25	17:55	47.0			
20/1/25	10:00	51.6	20/1/25	14:00	50.6	20/1/25	18:00	47.0			
20/1/25	10:05	50.1	20/1/25	14:05	50.4	20/1/25	18:05	48.5			
20/1/25	10:10	57.8	20/1/25	14:10	55.2	20/1/25	18:10	46.6			
20/1/25	10:15	56.9	20/1/25	14:15	50.9	20/1/25	18:15	48.8			
20/1/25	10:20	53.3	20/1/25	14:20	52.3	20/1/25	18:20	49.6			
20/1/25	10:25	50.5	20/1/25	14:25	51.2	20/1/25	18:25	47.4			
20/1/25	10:30	49.8	20/1/25	14:30	53.2	20/1/25	18:30	47.0			
20/1/25	10:35	50.4	20/1/25	14:35	54.5	20/1/25	18:35	48.7			
20/1/25	10:40	50.2	20/1/25	14:40	53.8	20/1/25	18:40	47.1			
20/1/25	10:45	51.4	20/1/25	14:45	53.6	20/1/25	18:45	48.3			
20/1/25	10:50	52.5	20/1/25	14:50	50.8	20/1/25	18:50	48.6			
20/1/25	10:55	57.7	20/1/25	14:55	56.5	20/1/25	18:55	48.2			
20/1/25	11:00	56.6	20/1/25	15:00	51.5	20/1/25	19:00	59.3			

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM9 EIA Gillman Barracks								
REPORT REFERENCE			20/01/2025 - 27/01/2025								
Start	20/1/25	19:05	Leq12h		47.7	Weighting				A	
End	21/1/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
20/1/25	19:05	47.9	49.2	20/1/25	23:05	47.4	49.7	21/1/25	3:05	39.5	39.7
20/1/25	19:10	46.4		20/1/25	23:10	49.5		21/1/25	3:10	38.9	
20/1/25	19:15	46.6		20/1/25	23:15	49.5		21/1/25	3:15	39.3	
20/1/25	19:20	45.7		20/1/25	23:20	49.1		21/1/25	3:20	41.2	
20/1/25	19:25	47.2		20/1/25	23:25	48.7		21/1/25	3:25	39.6	
20/1/25	19:30	49.5		20/1/25	23:30	49.9		21/1/25	3:30	40.8	
20/1/25	19:35	53.5		20/1/25	23:35	50.0		21/1/25	3:35	41.0	
20/1/25	19:40	48.2		20/1/25	23:40	50.1		21/1/25	3:40	39.2	
20/1/25	19:45	48.3		20/1/25	23:45	50.7		21/1/25	3:45	38.8	
20/1/25	19:50	50.0		20/1/25	23:50	50.2		21/1/25	3:50	38.8	
20/1/25	19:55	50.6	53.2	20/1/25	23:55	49.7	49.4	21/1/25	3:55	38.8	40.9
20/1/25	20:00	49.6		20/1/25	0:00	50.3		21/1/25	4:00	39.0	
20/1/25	20:05	49.0		21/1/25	0:05	49.1		21/1/25	4:05	38.8	
20/1/25	20:10	49.9		21/1/25	0:10	48.9		21/1/25	4:10	40.5	
20/1/25	20:15	62.4		21/1/25	0:15	48.9		21/1/25	4:15	42.3	
20/1/25	20:20	46.9		21/1/25	0:20	48.7		21/1/25	4:20	40.2	
20/1/25	20:25	48.5		21/1/25	0:25	49.4		21/1/25	4:25	39.4	
20/1/25	20:30	49.4		21/1/25	0:30	48.3		21/1/25	4:30	40.1	
20/1/25	20:35	48.8		21/1/25	0:35	50.1		21/1/25	4:35	41.4	
20/1/25	20:40	48.3		21/1/25	0:40	49.8		21/1/25	4:40	40.5	
20/1/25	20:45	47.3	47.6	21/1/25	0:45	49.8	44.5	21/1/25	4:45	42.2	43.4
20/1/25	20:50	46.8		21/1/25	0:50	49.4		21/1/25	4:50	41.0	
20/1/25	20:55	47.5		21/1/25	0:55	49.6		21/1/25	4:55	41.7	
20/1/25	21:00	47.6		21/1/25	1:00	50.1		21/1/25	5:00	41.2	
20/1/25	21:05	48.0		21/1/25	1:05	49.3		21/1/25	5:05	41.1	
20/1/25	21:10	49.2		21/1/25	1:10	49.2		21/1/25	5:10	41.5	
20/1/25	21:15	46.5		21/1/25	1:15	48.2		21/1/25	5:15	41.5	
20/1/25	21:20	47.3		21/1/25	1:20	40.7		21/1/25	5:20	43.0	
20/1/25	21:25	46.8		21/1/25	1:25	40.5		21/1/25	5:25	45.0	
20/1/25	21:30	48.4		21/1/25	1:30	39.8		21/1/25	5:30	41.8	
20/1/25	21:35	47.4	46.7	21/1/25	1:35	40.2	40.3	21/1/25	5:35	42.3	47.2
20/1/25	21:40	46.5		21/1/25	1:40	41.4		21/1/25	5:40	43.4	
20/1/25	21:45	46.2		21/1/25	1:45	40.7		21/1/25	5:45	46.1	
20/1/25	21:50	49.4		21/1/25	1:50	39.8		21/1/25	5:50	44.3	
20/1/25	21:55	46.5		21/1/25	1:55	40.1		21/1/25	5:55	43.4	
20/1/25	22:00	47.0		21/1/25	2:00	40.8		21/1/25	6:00	44.3	
20/1/25	22:05	45.7		21/1/25	2:05	41.3		21/1/25	6:05	45.8	
20/1/25	22:10	44.8		21/1/25	2:10	43.5		21/1/25	6:10	44.4	
20/1/25	22:15	44.3		21/1/25	2:15	40.4		21/1/25	6:15	46.5	
20/1/25	22:20	45.9		21/1/25	2:20	40.2		21/1/25	6:20	46.4	
20/1/25	22:25	46.6	21/1/25	2:25	39.6	21/1/25		6:25	45.4		
20/1/25	22:30	48.6	21/1/25	2:30	39.3	21/1/25		6:30	48.1		
20/1/25	22:35	45.9	21/1/25	2:35	38.9	21/1/25		6:35	46.8		
20/1/25	22:40	47.9	21/1/25	2:40	39.7	21/1/25		6:40	48.7		
20/1/25	22:45	46.0	21/1/25	2:45	39.0	21/1/25		6:45	47.0		
20/1/25	22:50	47.2	21/1/25	2:50	40.0	21/1/25		6:50	47.3		
20/1/25	22:55	47.5	21/1/25	2:55	39.7	21/1/25		6:55	48.0		
20/1/25	23:00	48.2	46.7	21/1/25	3:00	39.3		40.3	21/1/25	7:00	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM9 EIA Gillman Barracks						
REPORT REFERENCE			20/01/2025 - 27/01/2025						
Start	21/1/25	7:05	Leq12h	59.2			Weighting		A
End	21/1/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m		Date	Time	Leq5m
21/1/25	7:05	51.7	21/1/25	11:05	49.6		21/1/25	15:05	53.2
21/1/25	7:10	50.1	21/1/25	11:10	51.6		21/1/25	15:10	54.0
21/1/25	7:15	48.5	21/1/25	11:15	51.7		21/1/25	15:15	54.8
21/1/25	7:20	47.0	21/1/25	11:20	50.1		21/1/25	15:20	53.9
21/1/25	7:25	47.5	21/1/25	11:25	49.2		21/1/25	15:25	55.1
21/1/25	7:30	47.0	21/1/25	11:30	50.2		21/1/25	15:30	58.9
21/1/25	7:35	48.2	21/1/25	11:35	50.6		21/1/25	15:35	61.5
21/1/25	7:40	47.4	21/1/25	11:40	49.6		21/1/25	15:40	51.0
21/1/25	7:45	47.3	21/1/25	11:45	51.1		21/1/25	15:45	49.7
21/1/25	7:50	47.7	21/1/25	11:50	52.7		21/1/25	15:50	47.5
21/1/25	7:55	47.2	21/1/25	11:55	56.0		21/1/25	15:55	49.4
21/1/25	8:00	47.6	21/1/25	12:00	48.9		21/1/25	16:00	48.8
21/1/25	8:05	48.0	21/1/25	12:05	48.8		21/1/25	16:05	48.2
21/1/25	8:10	47.7	21/1/25	12:10	47.8		21/1/25	16:10	49.7
21/1/25	8:15	47.4	21/1/25	12:15	47.3		21/1/25	16:15	48.5
21/1/25	8:20	47.5	21/1/25	12:20	50.2		21/1/25	16:20	50.5
21/1/25	8:25	46.9	21/1/25	12:25	49.0		21/1/25	16:25	49.0
21/1/25	8:30	48.8	21/1/25	12:30	50.0		21/1/25	16:30	48.9
21/1/25	8:35	47.3	21/1/25	12:35	50.2		21/1/25	16:35	47.6
21/1/25	8:40	48.7	21/1/25	12:40	51.9		21/1/25	16:40	47.1
21/1/25	8:45	48.1	21/1/25	12:45	46.5		21/1/25	16:45	48.8
21/1/25	8:50	49.9	21/1/25	12:50	48.8		21/1/25	16:50	47.9
21/1/25	8:55	49.0	21/1/25	12:55	48.0		21/1/25	16:55	50.5
21/1/25	9:00	50.2	21/1/25	13:00	50.8		21/1/25	17:00	50.8
21/1/25	9:05	49.2	21/1/25	13:05	51.2		21/1/25	17:05	50.1
21/1/25	9:10	49.3	21/1/25	13:10	52.2		21/1/25	17:10	47.9
21/1/25	9:15	54.1	21/1/25	13:15	54.8		21/1/25	17:15	48.8
21/1/25	9:20	55.4	21/1/25	13:20	52.2		21/1/25	17:20	48.1
21/1/25	9:25	49.8	21/1/25	13:25	48.6		21/1/25	17:25	47.5
21/1/25	9:30	49.0	21/1/25	13:30	50.4		21/1/25	17:30	50.8
21/1/25	9:35	48.6	21/1/25	13:35	48.5		21/1/25	17:35	47.9
21/1/25	9:40	48.3	21/1/25	13:40	51.0		21/1/25	17:40	47.6
21/1/25	9:45	49.3	21/1/25	13:45	49.7		21/1/25	17:45	49.6
21/1/25	9:50	50.1	21/1/25	13:50	51.2		21/1/25	17:50	48.5
21/1/25	9:55	48.3	21/1/25	13:55	51.3		21/1/25	17:55	48.5
21/1/25	10:00	48.9	21/1/25	14:00	51.9		21/1/25	18:00	47.5
21/1/25	10:05	57.7	21/1/25	14:05	70.3		21/1/25	18:05	47.9
21/1/25	10:10	56.1	21/1/25	14:10	79.5		21/1/25	18:10	47.8
21/1/25	10:15	53.7	21/1/25	14:15	52.9		21/1/25	18:15	49.3
21/1/25	10:20	56.0	21/1/25	14:20	55.3		21/1/25	18:20	49.2
21/1/25	10:25	52.5	21/1/25	14:25	62.4		21/1/25	18:25	48.0
21/1/25	10:30	58.7	21/1/25	14:30	49.7		21/1/25	18:30	48.3
21/1/25	10:35	53.4	21/1/25	14:35	48.3		21/1/25	18:35	48.6
21/1/25	10:40	48.6	21/1/25	14:40	48.6		21/1/25	18:40	49.9
21/1/25	10:45	49.2	21/1/25	14:45	48.3		21/1/25	18:45	48.1
21/1/25	10:50	47.5	21/1/25	14:50	47.6		21/1/25	18:50	48.5
21/1/25	10:55	49.3	21/1/25	14:55	50.5		21/1/25	18:55	48.1
21/1/25	11:00	56.6	21/1/25	15:00	51.2		21/1/25	19:00	46.9

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM9 EIA Gillman Barracks							
REPORT REFERENCE				20/01/2025 - 27/01/2025							
Start	21/1/25	19:05		Leq12h	46.3			Weighting		A	
End	22/1/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
21/1/25	19:05	47.6		21/1/25	23:05	43.7		22/1/25	3:05	40.5	
21/1/25	19:10	54.4		21/1/25	23:10	45.3		22/1/25	3:10	39.9	
21/1/25	19:15	56.1		21/1/25	23:15	45.2		22/1/25	3:15	40.8	
21/1/25	19:20	48.7		21/1/25	23:20	42.8		22/1/25	3:20	43.2	
21/1/25	19:25	47.2		21/1/25	23:25	45.3		22/1/25	3:25	41.2	
21/1/25	19:30	48.0		21/1/25	23:30	47.3		22/1/25	3:30	40.9	
21/1/25	19:35	47.9		21/1/25	23:35	44.4		22/1/25	3:35	40.3	
21/1/25	19:40	48.3		21/1/25	23:40	45.0		22/1/25	3:40	41.4	
21/1/25	19:45	48.1		21/1/25	23:45	47.2		22/1/25	3:45	39.9	
21/1/25	19:50	47.6		21/1/25	23:50	48.8		22/1/25	3:50	39.8	
21/1/25	19:55	46.8		21/1/25	23:55	48.1		22/1/25	3:55	40.2	
21/1/25	20:00	47.6	50.3	21/1/25	0:00	48.8	46.4	22/1/25	4:00	40.8	40.8
21/1/25	20:05	46.9		22/1/25	0:05	48.7		22/1/25	4:05	41.1	
21/1/25	20:10	47.8		22/1/25	0:10	54.1		22/1/25	4:10	40.9	
21/1/25	20:15	51.6		22/1/25	0:15	50.2		22/1/25	4:15	40.8	
21/1/25	20:20	47.0		22/1/25	0:20	50.5		22/1/25	4:20	40.8	
21/1/25	20:25	48.7		22/1/25	0:25	53.2		22/1/25	4:25	41.2	
21/1/25	20:30	45.6		22/1/25	0:30	51.6		22/1/25	4:30	40.6	
21/1/25	20:35	48.8		22/1/25	0:35	47.8		22/1/25	4:35	41.0	
21/1/25	20:40	45.5		22/1/25	0:40	45.6		22/1/25	4:40	41.5	
21/1/25	20:45	45.0		22/1/25	0:45	44.5		22/1/25	4:45	42.1	
21/1/25	20:50	45.0		22/1/25	0:50	43.6		22/1/25	4:50	41.8	
21/1/25	20:55	46.9		22/1/25	0:55	43.4		22/1/25	4:55	41.5	
21/1/25	21:00	45.0	47.5	22/1/25	1:00	42.2	49.6	22/1/25	5:00	42.2	41.3
21/1/25	21:05	50.2		22/1/25	1:05	42.2		22/1/25	5:05	42.1	
21/1/25	21:10	45.6		22/1/25	1:10	41.9		22/1/25	5:10	41.2	
21/1/25	21:15	45.7		22/1/25	1:15	42.7		22/1/25	5:15	41.5	
21/1/25	21:20	46.5		22/1/25	1:20	42.1		22/1/25	5:20	43.0	
21/1/25	21:25	44.4		22/1/25	1:25	41.8		22/1/25	5:25	42.6	
21/1/25	21:30	46.7		22/1/25	1:30	42.2		22/1/25	5:30	42.2	
21/1/25	21:35	49.0		22/1/25	1:35	41.4		22/1/25	5:35	43.8	
21/1/25	21:40	44.8		22/1/25	1:40	41.7		22/1/25	5:40	43.5	
21/1/25	21:45	48.0		22/1/25	1:45	42.3		22/1/25	5:45	45.6	
21/1/25	21:50	47.2		22/1/25	1:50	41.0		22/1/25	5:50	44.6	
21/1/25	21:55	44.7		22/1/25	1:55	40.8		22/1/25	5:55	44.9	
21/1/25	22:00	44.6	46.8	22/1/25	2:00	41.7	41.8	22/1/25	6:00	44.0	43.5
21/1/25	22:05	49.0		22/1/25	2:05	42.0		22/1/25	6:05	45.9	
21/1/25	22:10	45.2		22/1/25	2:10	43.0		22/1/25	6:10	46.0	
21/1/25	22:15	43.5		22/1/25	2:15	41.8		22/1/25	6:15	45.8	
21/1/25	22:20	46.3		22/1/25	2:20	42.9		22/1/25	6:20	48.3	
21/1/25	22:25	44.2		22/1/25	2:25	42.6		22/1/25	6:25	45.7	
21/1/25	22:30	46.6		22/1/25	2:30	42.1		22/1/25	6:30	48.2	
21/1/25	22:35	44.0		22/1/25	2:35	42.1		22/1/25	6:35	46.8	
21/1/25	22:40	45.9		22/1/25	2:40	41.2		22/1/25	6:40	47.2	
21/1/25	22:45	46.1		22/1/25	2:45	40.8		22/1/25	6:45	46.6	
21/1/25	22:50	45.2		22/1/25	2:50	42.3		22/1/25	6:50	46.9	
21/1/25	22:55	45.2		22/1/25	2:55	40.5		22/1/25	6:55	48.4	
21/1/25	23:00	46.6	45.9	22/1/25	3:00	41.1	41.9	22/1/25	7:00	47.6	47.1

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM9 EIA Gillman Barracks						
REPORT REFERENCE			20/01/2025 - 27/01/2025						
Start	22/1/25	7:05	Leq12h		53.8	Weighting		A	
End	22/1/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m	
22/1/25	7:05	51.3	22/1/25	11:05	52.0	22/1/25	15:05	51.4	
22/1/25	7:10	50.3	22/1/25	11:10	50.3	22/1/25	15:10	51.4	
22/1/25	7:15	48.9	22/1/25	11:15	51.5	22/1/25	15:15	51.4	
22/1/25	7:20	47.1	22/1/25	11:20	49.4	22/1/25	15:20	50.6	
22/1/25	7:25	47.7	22/1/25	11:25	55.9	22/1/25	15:25	50.9	
22/1/25	7:30	48.0	22/1/25	11:30	57.1	22/1/25	15:30	51.5	
22/1/25	7:35	48.2	22/1/25	11:35	50.0	22/1/25	15:35	52.8	
22/1/25	7:40	46.6	22/1/25	11:40	57.9	22/1/25	15:40	65.2	
22/1/25	7:45	48.0	22/1/25	11:45	51.0	22/1/25	15:45	49.3	
22/1/25	7:50	48.7	22/1/25	11:50	58.5	22/1/25	15:50	49.0	
22/1/25	7:55	46.9	22/1/25	11:55	50.1	22/1/25	15:55	51.0	
22/1/25	8:00	47.9	22/1/25	12:00	50.3	22/1/25	16:00	56.0	
22/1/25	8:05	48.6	22/1/25	12:05	52.2	22/1/25	16:05	53.2	
22/1/25	8:10	46.9	22/1/25	12:10	49.7	22/1/25	16:10	51.9	
22/1/25	8:15	47.8	22/1/25	12:15	50.6	22/1/25	16:15	50.3	
22/1/25	8:20	48.5	22/1/25	12:20	53.4	22/1/25	16:20	50.3	
22/1/25	8:25	48.2	22/1/25	12:25	50.1	22/1/25	16:25	62.3	
22/1/25	8:30	49.1	22/1/25	12:30	52.1	22/1/25	16:30	49.9	
22/1/25	8:35	50.0	22/1/25	12:35	51.7	22/1/25	16:35	48.8	
22/1/25	8:40	49.2	22/1/25	12:40	49.9	22/1/25	16:40	49.9	
22/1/25	8:45	47.3	22/1/25	12:45	50.1	22/1/25	16:45	49.0	
22/1/25	8:50	50.0	22/1/25	12:50	49.9	22/1/25	16:50	52.9	
22/1/25	8:55	48.4	22/1/25	12:55	50.2	22/1/25	16:55	61.3	
22/1/25	9:00	50.4	22/1/25	13:00	49.8	22/1/25	17:00	46.6	
22/1/25	9:05	59.6	22/1/25	13:05	50.4	22/1/25	17:05	48.0	
22/1/25	9:10	58.0	22/1/25	13:10	48.5	22/1/25	17:10	48.4	
22/1/25	9:15	51.1	22/1/25	13:15	49.8	22/1/25	17:15	61.1	
22/1/25	9:20	48.9	22/1/25	13:20	59.1	22/1/25	17:20	51.0	
22/1/25	9:25	62.1	22/1/25	13:25	61.8	22/1/25	17:25	48.0	
22/1/25	9:30	59.3	22/1/25	13:30	48.7	22/1/25	17:30	46.9	
22/1/25	9:35	47.2	22/1/25	13:35	49.0	22/1/25	17:35	47.0	
22/1/25	9:40	47.4	22/1/25	13:40	49.0	22/1/25	17:40	46.5	
22/1/25	9:45	48.4	22/1/25	13:45	48.7	22/1/25	17:45	49.3	
22/1/25	9:50	48.5	22/1/25	13:50	50.4	22/1/25	17:50	51.1	
22/1/25	9:55	47.2	22/1/25	13:55	50.2	22/1/25	17:55	47.9	
22/1/25	10:00	47.8	22/1/25	14:00	50.5	22/1/25	18:00	48.4	
22/1/25	10:05	48.7	22/1/25	14:05	49.6	22/1/25	18:05	50.6	
22/1/25	10:10	55.7	22/1/25	14:10	53.9	22/1/25	18:10	46.5	
22/1/25	10:15	54.3	22/1/25	14:15	49.4	22/1/25	18:15	47.0	
22/1/25	10:20	52.0	22/1/25	14:20	52.9	22/1/25	18:20	47.9	
22/1/25	10:25	48.3	22/1/25	14:25	50.2	22/1/25	18:25	49.8	
22/1/25	10:30	49.0	22/1/25	14:30	50.3	22/1/25	18:30	48.4	
22/1/25	10:35	49.5	22/1/25	14:35	63.5	22/1/25	18:35	47.3	
22/1/25	10:40	52.8	22/1/25	14:40	49.2	22/1/25	18:40	48.7	
22/1/25	10:45	57.0	22/1/25	14:45	50.7	22/1/25	18:45	48.5	
22/1/25	10:50	62.1	22/1/25	14:50	50.3	22/1/25	18:50	46.7	
22/1/25	10:55	50.4	22/1/25	14:55	57.1	22/1/25	18:55	48.5	
22/1/25	11:00	52.5	22/1/25	15:00	53.1	22/1/25	19:00	48.5	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM9 EIA Gillman Barracks								
REPORT REFERENCE			20/01/2025 - 27/01/2025								
Start	22/1/25	19:05		Leq12h	48.0				Weighting		A
End	23/1/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
22/1/25	19:05	46.9	55.1	22/1/25	23:05	43.7	45.3	23/1/25	3:05	39.4	40.3
22/1/25	19:10	48.3		22/1/25	23:10	46.1		23/1/25	3:10	42.9	
22/1/25	19:15	54.7		22/1/25	23:15	44.3		23/1/25	3:15	39.6	
22/1/25	19:20	47.4		22/1/25	23:20	43.6		23/1/25	3:20	40.9	
22/1/25	19:25	64.5		22/1/25	23:25	45.3		23/1/25	3:25	39.9	
22/1/25	19:30	50.5		22/1/25	23:30	46.1		23/1/25	3:30	39.0	
22/1/25	19:35	50.8		22/1/25	23:35	48.2		23/1/25	3:35	40.4	
22/1/25	19:40	48.4		22/1/25	23:40	40.9		23/1/25	3:40	41.2	
22/1/25	19:45	49.4		22/1/25	23:45	44.3		23/1/25	3:45	38.4	
22/1/25	19:50	48.1		22/1/25	23:50	44.4		23/1/25	3:50	39.2	
22/1/25	19:55	47.6	48.6	22/1/25	23:55	45.7	42.5	23/1/25	3:55	39.7	44.6
22/1/25	20:00	47.6		22/1/25	0:00	46.6		23/1/25	4:00	40.5	
22/1/25	20:05	47.8		23/1/25	0:05	46.4		23/1/25	4:05	40.5	
22/1/25	20:10	47.3		23/1/25	0:10	41.0		23/1/25	4:10	41.4	
22/1/25	20:15	47.4		23/1/25	0:15	43.9		23/1/25	4:15	41.0	
22/1/25	20:20	50.0		23/1/25	0:20	41.6		23/1/25	4:20	43.5	
22/1/25	20:25	46.5		23/1/25	0:25	41.6		23/1/25	4:25	39.7	
22/1/25	20:30	49.5		23/1/25	0:30	41.9		23/1/25	4:30	41.4	
22/1/25	20:35	50.0		23/1/25	0:35	42.4		23/1/25	4:35	42.7	
22/1/25	20:40	47.0		23/1/25	0:40	42.8		23/1/25	4:40	43.6	
22/1/25	20:45	47.5	50.2	23/1/25	0:45	41.5	40.5	23/1/25	4:45	45.0	45.1
22/1/25	20:50	45.7		23/1/25	0:50	41.5		23/1/25	4:50	48.8	
22/1/25	20:55	48.0		23/1/25	0:55	41.1		23/1/25	4:55	47.2	
22/1/25	21:00	51.9		23/1/25	1:00	41.1		23/1/25	5:00	48.0	
22/1/25	21:05	48.4		23/1/25	1:05	40.2		23/1/25	5:05	48.7	
22/1/25	21:10	50.2		23/1/25	1:10	39.4		23/1/25	5:10	47.0	
22/1/25	21:15	50.3		23/1/25	1:15	40.1		23/1/25	5:15	43.8	
22/1/25	21:20	49.5		23/1/25	1:20	42.7		23/1/25	5:20	44.4	
22/1/25	21:25	48.9		23/1/25	1:25	40.2		23/1/25	5:25	43.9	
22/1/25	21:30	50.7		23/1/25	1:30	39.4		23/1/25	5:30	42.8	
22/1/25	21:35	51.5	48.1	23/1/25	1:35	41.2	40.4	23/1/25	5:35	43.3	47.1
22/1/25	21:40	50.1		23/1/25	1:40	39.9		23/1/25	5:40	44.8	
22/1/25	21:45	52.4		23/1/25	1:45	40.1		23/1/25	5:45	45.2	
22/1/25	21:50	51.7		23/1/25	1:50	39.9		23/1/25	5:50	44.0	
22/1/25	21:55	48.3		23/1/25	1:55	39.9		23/1/25	5:55	44.8	
22/1/25	22:00	48.4		23/1/25	2:00	41.2		23/1/25	6:00	44.9	
22/1/25	22:05	50.0		23/1/25	2:05	40.7		23/1/25	6:05	46.5	
22/1/25	22:10	46.8		23/1/25	2:10	41.8		23/1/25	6:10	44.2	
22/1/25	22:15	47.4		23/1/25	2:15	39.5		23/1/25	6:15	45.1	
22/1/25	22:20	47.6		23/1/25	2:20	39.5		23/1/25	6:20	48.2	
22/1/25	22:25	48.2	23/1/25	2:25	41.3	23/1/25	6:25	44.9			
22/1/25	22:30	48.9	23/1/25	2:30	39.1	23/1/25	6:30	47.4			
22/1/25	22:35	50.7	23/1/25	2:35	41.3	23/1/25	6:35	46.9			
22/1/25	22:40	48.6	23/1/25	2:40	39.7	23/1/25	6:40	47.2			
22/1/25	22:45	47.2	23/1/25	2:45	39.4	23/1/25	6:45	47.3			
22/1/25	22:50	45.2	23/1/25	2:50	40.8	23/1/25	6:50	48.3			
22/1/25	22:55	44.7	23/1/25	2:55	41.2	23/1/25	6:55	47.7			
22/1/25	23:00	48.0	48.1	23/1/25	3:00	38.9	40.4	23/1/25	7:00	49.1	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd							
SITE LOCATION			NM9 EIA Gillman Barracks							
REPORT REFERENCE			20/01/2025 - 27/01/2025							
Start	23/1/25	7:05	Leq12h	51.5				Weighting		A
End	23/1/25	19:00								
Date	Time	Leq5m	Date	Time	Leq5m		Date	Time	Leq5m	
23/1/25	7:05	52.8	23/1/25	11:05	51.4		23/1/25	15:05	50.3	
23/1/25	7:10	51.5	23/1/25	11:10	49.5		23/1/25	15:10	50.6	
23/1/25	7:15	48.7	23/1/25	11:15	49.7		23/1/25	15:15	54.3	
23/1/25	7:20	47.6	23/1/25	11:20	49.9		23/1/25	15:20	49.7	
23/1/25	7:25	47.6	23/1/25	11:25	50.0		23/1/25	15:25	49.7	
23/1/25	7:30	46.3	23/1/25	11:30	56.2		23/1/25	15:30	47.7	
23/1/25	7:35	48.7	23/1/25	11:35	48.0		23/1/25	15:35	47.1	
23/1/25	7:40	46.8	23/1/25	11:40	48.5		23/1/25	15:40	48.2	
23/1/25	7:45	48.6	23/1/25	11:45	49.8		23/1/25	15:45	49.4	
23/1/25	7:50	65.8	23/1/25	11:50	50.2		23/1/25	15:50	47.7	
23/1/25	7:55	47.8	23/1/25	11:55	51.0		23/1/25	15:55	49.6	
23/1/25	8:00	46.7	23/1/25	12:00	49.1		23/1/25	16:00	58.8	
23/1/25	8:05	48.0	23/1/25	12:05	49.6		23/1/25	16:05	50.7	
23/1/25	8:10	47.5	23/1/25	12:10	48.9		23/1/25	16:10	54.0	
23/1/25	8:15	48.3	23/1/25	12:15	49.3		23/1/25	16:15	50.4	
23/1/25	8:20	49.0	23/1/25	12:20	50.6		23/1/25	16:20	48.4	
23/1/25	8:25	47.5	23/1/25	12:25	49.3		23/1/25	16:25	47.5	
23/1/25	8:30	51.5	23/1/25	12:30	48.2		23/1/25	16:30	49.6	
23/1/25	8:35	48.5	23/1/25	12:35	46.5		23/1/25	16:35	48.8	
23/1/25	8:40	48.9	23/1/25	12:40	48.2		23/1/25	16:40	48.7	
23/1/25	8:45	47.2	23/1/25	12:45	48.5		23/1/25	16:45	48.2	
23/1/25	8:50	48.9	23/1/25	12:50	47.9		23/1/25	16:50	47.9	
23/1/25	8:55	49.6	23/1/25	12:55	47.8		23/1/25	16:55	48.4	
23/1/25	9:00	48.0	23/1/25	13:00	48.8		23/1/25	17:00	46.2	
23/1/25	9:05	48.2	23/1/25	13:05	48.6		23/1/25	17:05	48.7	
23/1/25	9:10	48.8	23/1/25	13:10	46.6		23/1/25	17:10	48.9	
23/1/25	9:15	49.1	23/1/25	13:15	49.8		23/1/25	17:15	48.9	
23/1/25	9:20	48.2	23/1/25	13:20	48.0		23/1/25	17:20	47.8	
23/1/25	9:25	49.8	23/1/25	13:25	49.3		23/1/25	17:25	47.4	
23/1/25	9:30	49.2	23/1/25	13:30	48.4		23/1/25	17:30	61.8	
23/1/25	9:35	47.4	23/1/25	13:35	49.2		23/1/25	17:35	50.5	
23/1/25	9:40	47.0	23/1/25	13:40	51.0		23/1/25	17:40	48.8	
23/1/25	9:45	48.5	23/1/25	13:45	48.6		23/1/25	17:45	47.5	
23/1/25	9:50	48.9	23/1/25	13:50	50.9		23/1/25	17:50	48.9	
23/1/25	9:55	46.9	23/1/25	13:55	50.0		23/1/25	17:55	47.8	
23/1/25	10:00	48.7	23/1/25	14:00	52.0		23/1/25	18:00	54.6	
23/1/25	10:05	50.5	23/1/25	14:05	53.1		23/1/25	18:05	48.7	
23/1/25	10:10	59.1	23/1/25	14:10	51.6		23/1/25	18:10	46.3	
23/1/25	10:15	53.8	23/1/25	14:15	49.2		23/1/25	18:15	47.5	
23/1/25	10:20	49.4	23/1/25	14:20	48.3		23/1/25	18:20	48.5	
23/1/25	10:25	50.6	23/1/25	14:25	48.8		23/1/25	18:25	47.7	
23/1/25	10:30	49.9	23/1/25	14:30	50.7		23/1/25	18:30	48.0	
23/1/25	10:35	50.3	23/1/25	14:35	49.8		23/1/25	18:35	48.3	
23/1/25	10:40	49.4	23/1/25	14:40	50.5		23/1/25	18:40	47.5	
23/1/25	10:45	52.8	23/1/25	14:45	54.2		23/1/25	18:45	49.5	
23/1/25	10:50	49.1	23/1/25	14:50	50.3		23/1/25	18:50	46.1	
23/1/25	10:55	50.2	23/1/25	14:55	50.5		23/1/25	18:55	48.7	
23/1/25	11:00	59.1	23/1/25	15:00	49.0		23/1/25	19:00	46.2	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM9 EIA Gillman Barracks								
REPORT REFERENCE			20/01/2025 - 27/01/2025								
Start	23/1/25	19:05	Leq12h		45.2	Weighting				A	
End	24/1/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
23/1/25	19:05	47.8	48.4	23/1/25	23:05	44.9	44.9	24/1/25	3:05	43.1	40.5
23/1/25	19:10	46.6		23/1/25	23:10	46.2		24/1/25	3:10	43.4	
23/1/25	19:15	50.8		23/1/25	23:15	44.5		24/1/25	3:15	40.8	
23/1/25	19:20	49.3		23/1/25	23:20	44.8		24/1/25	3:20	39.2	
23/1/25	19:25	47.2		23/1/25	23:25	43.5		24/1/25	3:25	39.2	
23/1/25	19:30	47.8		23/1/25	23:30	46.2		24/1/25	3:30	39.6	
23/1/25	19:35	45.8		23/1/25	23:35	43.8		24/1/25	3:35	40.4	
23/1/25	19:40	48.1		23/1/25	23:40	42.3		24/1/25	3:40	39.1	
23/1/25	19:45	48.4		23/1/25	23:45	43.7		24/1/25	3:45	39.1	
23/1/25	19:50	49.5		23/1/25	23:50	46.6		24/1/25	3:50	39.0	
23/1/25	19:55	49.5	48.0	23/1/25	23:55	43.8	42.2	24/1/25	3:55	40.4	40.6
23/1/25	20:00	47.7		23/1/25	0:00	46.5		24/1/25	4:00	39.7	
23/1/25	20:05	46.3		24/1/25	0:05	43.7		24/1/25	4:05	39.9	
23/1/25	20:10	49.0		24/1/25	0:10	43.9		24/1/25	4:10	40.5	
23/1/25	20:15	47.7		24/1/25	0:15	43.1		24/1/25	4:15	43.1	
23/1/25	20:20	48.5		24/1/25	0:20	42.6		24/1/25	4:20	40.6	
23/1/25	20:25	49.2		24/1/25	0:25	42.0		24/1/25	4:25	40.8	
23/1/25	20:30	48.2		24/1/25	0:30	41.8		24/1/25	4:30	39.6	
23/1/25	20:35	46.2		24/1/25	0:35	41.1		24/1/25	4:35	39.3	
23/1/25	20:40	49.2		24/1/25	0:40	41.3		24/1/25	4:40	40.0	
23/1/25	20:45	50.3	47.0	24/1/25	0:45	41.8	40.5	24/1/25	4:45	40.7	43.5
23/1/25	20:50	45.2		24/1/25	0:50	41.4		24/1/25	4:50	40.5	
23/1/25	20:55	48.4		24/1/25	0:55	41.2		24/1/25	4:55	40.4	
23/1/25	21:00	44.1		24/1/25	1:00	41.8		24/1/25	5:00	40.7	
23/1/25	21:05	44.6		24/1/25	1:05	41.4		24/1/25	5:05	41.9	
23/1/25	21:10	48.5		24/1/25	1:10	40.7		24/1/25	5:10	41.2	
23/1/25	21:15	45.1		24/1/25	1:15	42.3		24/1/25	5:15	43.2	
23/1/25	21:20	46.9		24/1/25	1:20	41.7		24/1/25	5:20	43.0	
23/1/25	21:25	49.5		24/1/25	1:25	40.4		24/1/25	5:25	43.3	
23/1/25	21:30	45.5		24/1/25	1:30	40.1		24/1/25	5:30	41.8	
23/1/25	21:35	49.0	46.1	24/1/25	1:35	39.2	41.9	24/1/25	5:35	43.2	47.3
23/1/25	21:40	45.2		24/1/25	1:40	39.2		24/1/25	5:40	45.0	
23/1/25	21:45	46.3		24/1/25	1:45	39.9		24/1/25	5:45	45.4	
23/1/25	21:50	47.6		24/1/25	1:50	40.7		24/1/25	5:50	43.9	
23/1/25	21:55	47.0		24/1/25	1:55	39.3		24/1/25	5:55	44.0	
23/1/25	22:00	45.2		24/1/25	2:00	39.1		24/1/25	6:00	44.4	
23/1/25	22:05	47.3		24/1/25	2:05	39.2		24/1/25	6:05	46.2	
23/1/25	22:10	43.7		24/1/25	2:10	43.2		24/1/25	6:10	45.6	
23/1/25	22:15	46.0		24/1/25	2:15	45.0		24/1/25	6:15	45.7	
23/1/25	22:20	47.5		24/1/25	2:20	42.5		24/1/25	6:20	47.1	
23/1/25	22:25	44.0	46.1	24/1/25	2:25	42.0	41.9	24/1/25	6:25	46.6	
23/1/25	22:30	46.5		24/1/25	2:30	41.4		24/1/25	6:30	47.8	
23/1/25	22:35	46.0		24/1/25	2:35	38.4		24/1/25	6:35	46.6	
23/1/25	22:40	46.9		24/1/25	2:40	39.5		24/1/25	6:40	47.0	
23/1/25	22:45	47.7		24/1/25	2:45	39.4		24/1/25	6:45	46.9	
23/1/25	22:50	44.4		24/1/25	2:50	41.8		24/1/25	6:50	45.8	
23/1/25	22:55	43.7		24/1/25	2:55	42.5		24/1/25	6:55	48.2	
23/1/25	23:00	46.8		24/1/25	3:00	43.2		24/1/25	7:00	50.7	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM9 EIA Gillman Barracks						
REPORT REFERENCE			20/01/2025 - 27/01/2025						
Start	24/1/25	7:05	Leq12h		53.1	Weighting		A	
End	24/1/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m	
24/1/25	7:05	54.1	24/1/25	11:05	52.4	24/1/25	15:05	50.9	
24/1/25	7:10	50.7	24/1/25	11:10	53.1	24/1/25	15:10	47.9	
24/1/25	7:15	48.7	24/1/25	11:15	52.1	24/1/25	15:15	49.5	
24/1/25	7:20	46.3	24/1/25	11:20	53.6	24/1/25	15:20	51.9	
24/1/25	7:25	46.2	24/1/25	11:25	54.2	24/1/25	15:25	49.1	
24/1/25	7:30	46.3	24/1/25	11:30	54.1	24/1/25	15:30	51.0	
24/1/25	7:35	47.5	24/1/25	11:35	60.3	24/1/25	15:35	51.0	
24/1/25	7:40	47.8	24/1/25	11:40	56.9	24/1/25	15:40	52.2	
24/1/25	7:45	59.8	24/1/25	11:45	56.1	24/1/25	15:45	50.2	
24/1/25	7:50	54.9	24/1/25	11:50	55.9	24/1/25	15:50	48.9	
24/1/25	7:55	52.9	24/1/25	11:55	59.4	24/1/25	15:55	47.6	
24/1/25	8:00	50.2	24/1/25	12:00	57.5	24/1/25	16:00	47.7	
24/1/25	8:05	48.2	24/1/25	12:05	53.2	24/1/25	16:05	49.5	
24/1/25	8:10	50.0	24/1/25	12:10	52.2	24/1/25	16:10	48.1	
24/1/25	8:15	48.1	24/1/25	12:15	52.3	24/1/25	16:15	48.6	
24/1/25	8:20	50.4	24/1/25	12:20	50.8	24/1/25	16:20	50.2	
24/1/25	8:25	57.7	24/1/25	12:25	50.6	24/1/25	16:25	49.4	
24/1/25	8:30	63.1	24/1/25	12:30	51.4	24/1/25	16:30	50.2	
24/1/25	8:35	49.2	24/1/25	12:35	50.8	24/1/25	16:35	52.2	
24/1/25	8:40	48.9	24/1/25	12:40	50.5	24/1/25	16:40	52.8	
24/1/25	8:45	48.4	24/1/25	12:45	50.5	24/1/25	16:45	49.2	
24/1/25	8:50	49.8	24/1/25	12:50	50.4	24/1/25	16:50	50.6	
24/1/25	8:55	48.6	24/1/25	12:55	51.7	24/1/25	16:55	50.2	
24/1/25	9:00	47.5	24/1/25	13:00	54.7	24/1/25	17:00	48.8	
24/1/25	9:05	52.8	24/1/25	13:05	59.5	24/1/25	17:05	47.9	
24/1/25	9:10	50.3	24/1/25	13:10	58.1	24/1/25	17:10	49.9	
24/1/25	9:15	58.9	24/1/25	13:15	56.5	24/1/25	17:15	51.2	
24/1/25	9:20	49.0	24/1/25	13:20	58.4	24/1/25	17:20	53.7	
24/1/25	9:25	48.2	24/1/25	13:25	55.6	24/1/25	17:25	52.9	
24/1/25	9:30	48.7	24/1/25	13:30	55.8	24/1/25	17:30	51.9	
24/1/25	9:35	48.6	24/1/25	13:35	55.8	24/1/25	17:35	47.5	
24/1/25	9:40	48.8	24/1/25	13:40	54.9	24/1/25	17:40	47.2	
24/1/25	9:45	47.3	24/1/25	13:45	52.3	24/1/25	17:45	47.5	
24/1/25	9:50	48.9	24/1/25	13:50	52.3	24/1/25	17:50	49.0	
24/1/25	9:55	48.1	24/1/25	13:55	51.0	24/1/25	17:55	52.2	
24/1/25	10:00	48.5	24/1/25	14:00	50.9	24/1/25	18:00	53.8	
24/1/25	10:05	48.2	24/1/25	14:05	52.4	24/1/25	18:05	53.4	
24/1/25	10:10	50.3	24/1/25	14:10	52.1	24/1/25	18:10	54.8	
24/1/25	10:15	48.5	24/1/25	14:15	50.4	24/1/25	18:15	54.2	
24/1/25	10:20	51.2	24/1/25	14:20	50.3	24/1/25	18:20	54.2	
24/1/25	10:25	51.0	24/1/25	14:25	51.2	24/1/25	18:25	55.1	
24/1/25	10:30	52.0	24/1/25	14:30	50.1	24/1/25	18:30	55.1	
24/1/25	10:35	60.5	24/1/25	14:35	49.2	24/1/25	18:35	53.6	
24/1/25	10:40	52.3	24/1/25	14:40	52.1	24/1/25	18:40	48.3	
24/1/25	10:45	52.8	24/1/25	14:45	51.5	24/1/25	18:45	47.8	
24/1/25	10:50	52.8	24/1/25	14:50	50.7	24/1/25	18:50	50.7	
24/1/25	10:55	51.9	24/1/25	14:55	49.0	24/1/25	18:55	53.3	
24/1/25	11:00	51.8	24/1/25	15:00	48.8	24/1/25	19:00	53.4	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM9 EIA Gillman Barracks								
REPORT REFERENCE			20/01/2025 - 27/01/2025								
Start	24/1/25		19:05	Leq12h		47.3		Weighting		A	
End	25/1/25		7:00								
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
24/1/25	19:05	54.6	51.9	24/1/25	23:05	44.6	45.3	25/1/25	3:05	40.7	40.1
24/1/25	19:10	55.3		24/1/25	23:10	45.3		25/1/25	3:10	40.0	
24/1/25	19:15	53.6		24/1/25	23:15	45.5		25/1/25	3:15	41.0	
24/1/25	19:20	50.7		24/1/25	23:20	45.2		25/1/25	3:20	40.7	
24/1/25	19:25	47.4		24/1/25	23:25	45.7		25/1/25	3:25	40.0	
24/1/25	19:30	50.6		24/1/25	23:30	46.3		25/1/25	3:30	39.2	
24/1/25	19:35	50.3		24/1/25	23:35	45.5		25/1/25	3:35	40.0	
24/1/25	19:40	51.5		24/1/25	23:40	42.8		25/1/25	3:40	39.3	
24/1/25	19:45	49.3		24/1/25	23:45	47.1		25/1/25	3:45	39.5	
24/1/25	19:50	51.9		24/1/25	23:50	43.1		25/1/25	3:50	39.8	
24/1/25	19:55	50.0	52.7	24/1/25	23:55	43.5	44.7	25/1/25	3:55	39.6	41.5
24/1/25	20:00	50.9		24/1/25	0:00	46.4		25/1/25	4:00	40.6	
24/1/25	20:05	53.0		25/1/25	0:05	49.5		25/1/25	4:05	39.9	
24/1/25	20:10	54.4		25/1/25	0:10	41.7		25/1/25	4:10	40.9	
24/1/25	20:15	53.6		25/1/25	0:15	48.6		25/1/25	4:15	46.3	
24/1/25	20:20	53.2		25/1/25	0:20	44.6		25/1/25	4:20	39.9	
24/1/25	20:25	56.7		25/1/25	0:25	47.3		25/1/25	4:25	40.7	
24/1/25	20:30	53.3		25/1/25	0:30	42.4		25/1/25	4:30	40.4	
24/1/25	20:35	49.9		25/1/25	0:35	40.7		25/1/25	4:35	41.1	
24/1/25	20:40	50.0		25/1/25	0:40	41.0		25/1/25	4:40	40.8	
24/1/25	20:45	49.5	49.4	25/1/25	0:45	41.8	41.5	25/1/25	4:45	42.0	42.7
24/1/25	20:50	49.9		25/1/25	0:50	41.4		25/1/25	4:50	40.0	
24/1/25	20:55	51.3		25/1/25	0:55	41.6		25/1/25	4:55	40.4	
24/1/25	21:00	49.9		25/1/25	1:00	41.5		25/1/25	5:00	39.7	
24/1/25	21:05	51.1		25/1/25	1:05	43.1		25/1/25	5:05	40.3	
24/1/25	21:10	49.3		25/1/25	1:10	41.8		25/1/25	5:10	39.9	
24/1/25	21:15	49.2		25/1/25	1:15	41.7		25/1/25	5:15	41.2	
24/1/25	21:20	49.9		25/1/25	1:20	41.3		25/1/25	5:20	41.6	
24/1/25	21:25	47.9		25/1/25	1:25	40.7		25/1/25	5:25	41.1	
24/1/25	21:30	48.2		25/1/25	1:30	42.3		25/1/25	5:30	41.7	
24/1/25	21:35	49.9	46.7	25/1/25	1:35	41.3	42.1	25/1/25	5:35	43.1	45.2
24/1/25	21:40	49.6		25/1/25	1:40	40.9		25/1/25	5:40	45.3	
24/1/25	21:45	50.1		25/1/25	1:45	41.5		25/1/25	5:45	43.3	
24/1/25	21:50	49.5		25/1/25	1:50	41.0		25/1/25	5:50	43.7	
24/1/25	21:55	48.1		25/1/25	1:55	40.4		25/1/25	5:55	43.3	
24/1/25	22:00	49.4		25/1/25	2:00	41.0		25/1/25	6:00	44.3	
24/1/25	22:05	48.8		25/1/25	2:05	41.5		25/1/25	6:05	41.6	
24/1/25	22:10	46.2		25/1/25	2:10	43.3		25/1/25	6:10	44.3	
24/1/25	22:15	45.5		25/1/25	2:15	42.1		25/1/25	6:15	44.6	
24/1/25	22:20	47.2		25/1/25	2:20	41.8		25/1/25	6:20	43.3	
24/1/25	22:25	47.0	46.7	25/1/25	2:25	42.3	42.1	25/1/25	6:25	42.6	45.2
24/1/25	22:30	47.2		25/1/25	2:30	45.1		25/1/25	6:30	43.5	
24/1/25	22:35	47.8		25/1/25	2:35	42.7		25/1/25	6:35	44.6	
24/1/25	22:40	45.0		25/1/25	2:40	42.7		25/1/25	6:40	44.8	
24/1/25	22:45	45.8		25/1/25	2:45	41.2		25/1/25	6:45	44.0	
24/1/25	22:50	46.4		25/1/25	2:50	38.6		25/1/25	6:50	44.6	
24/1/25	22:55	44.7		25/1/25	2:55	41.2		25/1/25	6:55	47.2	
24/1/25	23:00	46.6		25/1/25	3:00	39.8		25/1/25	7:00	49.9	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd							
SITE LOCATION			NM9 EIA Gillman Barracks							
REPORT REFERENCE			20/01/2025 - 27/01/2025							
Start	25/1/25	7:05	Leq12h	56.0				Weighting		A
End	25/1/25	19:00								
Date	Time	Leq5m	Date	Time	Leq5m		Date	Time	Leq5m	
25/1/25	7:05	52.8	25/1/25	11:05	48.7		25/1/25	15:05	64.8	
25/1/25	7:10	49.5	25/1/25	11:10	50.5		25/1/25	15:10	60.4	
25/1/25	7:15	58.7	25/1/25	11:15	51.9		25/1/25	15:15	57.9	
25/1/25	7:20	47.0	25/1/25	11:20	50.9		25/1/25	15:20	55.7	
25/1/25	7:25	46.2	25/1/25	11:25	51.1		25/1/25	15:25	54.6	
25/1/25	7:30	48.7	25/1/25	11:30	50.7		25/1/25	15:30	52.3	
25/1/25	7:35	47.6	25/1/25	11:35	51.3		25/1/25	15:35	57.1	
25/1/25	7:40	48.8	25/1/25	11:40	51.3		25/1/25	15:40	58.2	
25/1/25	7:45	46.5	25/1/25	11:45	50.5		25/1/25	15:45	55.1	
25/1/25	7:50	47.5	25/1/25	11:50	48.5		25/1/25	15:50	54.1	
25/1/25	7:55	47.9	25/1/25	11:55	54.3		25/1/25	15:55	53.1	
25/1/25	8:00	48.5	25/1/25	12:00	52.9		25/1/25	16:00	52.8	
25/1/25	8:05	47.7	25/1/25	12:05	50.4		25/1/25	16:05	52.6	
25/1/25	8:10	48.7	25/1/25	12:10	50.9		25/1/25	16:10	52.8	
25/1/25	8:15	48.7	25/1/25	12:15	52.0		25/1/25	16:15	52.2	
25/1/25	8:20	49.2	25/1/25	12:20	50.6		25/1/25	16:20	49.6	
25/1/25	8:25	48.6	25/1/25	12:25	50.9		25/1/25	16:25	50.9	
25/1/25	8:30	46.7	25/1/25	12:30	50.8		25/1/25	16:30	50.9	
25/1/25	8:35	47.2	25/1/25	12:35	50.7		25/1/25	16:35	47.7	
25/1/25	8:40	49.4	25/1/25	12:40	49.0		25/1/25	16:40	49.6	
25/1/25	8:45	49.3	25/1/25	12:45	49.7		25/1/25	16:45	50.4	
25/1/25	8:50	48.3	25/1/25	12:50	49.3		25/1/25	16:50	50.9	
25/1/25	8:55	48.5	25/1/25	12:55	49.8		25/1/25	16:55	50.0	
25/1/25	9:00	53.3	25/1/25	13:00	48.8		25/1/25	17:00	49.8	
25/1/25	9:05	46.8	25/1/25	13:05	47.6		25/1/25	17:05	48.7	
25/1/25	9:10	47.2	25/1/25	13:10	49.6		25/1/25	17:10	46.9	
25/1/25	9:15	49.5	25/1/25	13:15	50.3		25/1/25	17:15	48.5	
25/1/25	9:20	49.2	25/1/25	13:20	50.7		25/1/25	17:20	51.7	
25/1/25	9:25	49.7	25/1/25	13:25	49.2		25/1/25	17:25	48.9	
25/1/25	9:30	52.6	25/1/25	13:30	50.4		25/1/25	17:30	47.1	
25/1/25	9:35	49.5	25/1/25	13:35	52.2		25/1/25	17:35	49.6	
25/1/25	9:40	50.0	25/1/25	13:40	54.8		25/1/25	17:40	47.2	
25/1/25	9:45	49.9	25/1/25	13:45	62.0		25/1/25	17:45	50.9	
25/1/25	9:50	49.8	25/1/25	13:50	61.3		25/1/25	17:50	49.3	
25/1/25	9:55	48.5	25/1/25	13:55	64.3		25/1/25	17:55	46.3	
25/1/25	10:00	51.3	25/1/25	14:00	65.2		25/1/25	18:00	48.1	
25/1/25	10:05	48.2	25/1/25	14:05	69.6		25/1/25	18:05	51.7	
25/1/25	10:10	49.0	25/1/25	14:10	62.1		25/1/25	18:10	49.2	
25/1/25	10:15	49.5	25/1/25	14:15	63.4		25/1/25	18:15	51.1	
25/1/25	10:20	50.3	25/1/25	14:20	69.2		25/1/25	18:20	48.6	
25/1/25	10:25	51.2	25/1/25	14:25	61.8		25/1/25	18:25	50.0	
25/1/25	10:30	49.7	25/1/25	14:30	55.8		25/1/25	18:30	50.3	
25/1/25	10:35	50.4	25/1/25	14:35	54.2		25/1/25	18:35	50.0	
25/1/25	10:40	50.0	25/1/25	14:40	52.2		25/1/25	18:40	52.7	
25/1/25	10:45	50.3	25/1/25	14:45	50.4		25/1/25	18:45	50.6	
25/1/25	10:50	50.2	25/1/25	14:50	52.4		25/1/25	18:50	57.7	
25/1/25	10:55	51.3	25/1/25	14:55	61.9		25/1/25	18:55	54.4	
25/1/25	11:00	50.9	25/1/25	15:00	61.5		25/1/25	19:00	53.5	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd									
SITE LOCATION			NM9 EIA Gillman Barracks									
REPORT REFERENCE			20/01/2025 - 27/01/2025									
Start	25/1/25	19:05	Leq12h	52.9					Weighting		A	
End	26/1/25	7:00										
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	
25/1/25	19:05	54.7	55.0	25/1/25	23:05	46.3	45.3	26/1/25	3:05	39.4	40.4	
25/1/25	19:10	55.0		25/1/25	23:10	45.4		26/1/25	3:10	43.2		
25/1/25	19:15	53.6		25/1/25	23:15	45.2		26/1/25	3:15	40.8		
25/1/25	19:20	48.6		25/1/25	23:20	45.0		26/1/25	3:20	40.5		
25/1/25	19:25	47.9		25/1/25	23:25	45.1		26/1/25	3:25	40.0		
25/1/25	19:30	50.3		25/1/25	23:30	44.6		26/1/25	3:30	39.4		
25/1/25	19:35	50.1		25/1/25	23:35	45.2		26/1/25	3:35	39.8		
25/1/25	19:40	55.1		25/1/25	23:40	44.7		26/1/25	3:40	40.7		
25/1/25	19:45	55.2		25/1/25	23:45	45.9		26/1/25	3:45	39.4		
25/1/25	19:50	55.5		25/1/25	23:50	43.8		26/1/25	3:50	39.3		
25/1/25	19:55	57.9	60.5	25/1/25	23:55	45.0	43.2	26/1/25	3:55	39.9	41.5	
25/1/25	20:00	60.1		25/1/25	0:00	46.5		26/1/25	4:00	41.2		
25/1/25	20:05	61.0		26/1/25	0:05	43.5		26/1/25	4:05	41.4		
25/1/25	20:10	59.3		26/1/25	0:10	44.3		26/1/25	4:10	39.9		
25/1/25	20:15	60.1		26/1/25	0:15	43.6		26/1/25	4:15	40.3		
25/1/25	20:20	61.2		26/1/25	0:20	44.5		26/1/25	4:20	41.2		
25/1/25	20:25	60.2		26/1/25	0:25	44.9		26/1/25	4:25	42.1		
25/1/25	20:30	60.7		26/1/25	0:30	42.2		26/1/25	4:30	38.9		
25/1/25	20:35	60.7		26/1/25	0:35	44.0		26/1/25	4:35	40.5		
25/1/25	20:40	60.7		26/1/25	0:40	41.8		26/1/25	4:40	40.8		
25/1/25	20:45	60.6	58.0	26/1/25	0:45	43.5	42.6	26/1/25	4:45	46.3	42.4	
25/1/25	20:50	60.6		26/1/25	0:50	41.0		26/1/25	4:50	41.0		
25/1/25	20:55	60.4		26/1/25	0:55	41.1		26/1/25	4:55	40.1		
25/1/25	21:00	60.5		26/1/25	1:00	41.2		26/1/25	5:00	40.3		
25/1/25	21:05	60.1		26/1/25	1:05	43.3		26/1/25	5:05	40.1		
25/1/25	21:10	58.3		26/1/25	1:10	43.6		26/1/25	5:10	40.2		
25/1/25	21:15	61.0		26/1/25	1:15	42.7		26/1/25	5:15	42.4		
25/1/25	21:20	61.0		26/1/25	1:20	42.9		26/1/25	5:20	41.2		
25/1/25	21:25	61.0		26/1/25	1:25	42.7		26/1/25	5:25	39.7		
25/1/25	21:30	60.2		26/1/25	1:30	41.9		26/1/25	5:30	41.9		
25/1/25	21:35	53.5	48.3	26/1/25	1:35	42.2	41.4	26/1/25	5:35	41.3	47.4	
25/1/25	21:40	52.7		26/1/25	1:40	43.0		26/1/25	5:40	43.2		
25/1/25	21:45	52.6		26/1/25	1:45	41.8		26/1/25	5:45	38.7		
25/1/25	21:50	53.2		26/1/25	1:50	43.3		26/1/25	5:50	46.4		
25/1/25	21:55	51.8		26/1/25	1:55	42.1		26/1/25	5:55	45.0		
25/1/25	22:00	51.4		26/1/25	2:00	41.7		26/1/25	6:00	41.5		
25/1/25	22:05	50.8		26/1/25	2:05	43.0		26/1/25	6:05	41.3		
25/1/25	22:10	51.2		26/1/25	2:10	41.2		26/1/25	6:10	45.8		
25/1/25	22:15	49.7		26/1/25	2:15	41.1		26/1/25	6:15	40.8		
25/1/25	22:20	47.4		26/1/25	2:20	41.0		26/1/25	6:20	44.7		
25/1/25	22:25	47.4	48.3	26/1/25	2:25	40.8	41.4	26/1/25	6:25	41.5	47.4	
25/1/25	22:30	47.4		26/1/25	2:30	41.7		26/1/25	6:30	48.5		
25/1/25	22:35	45.8		26/1/25	2:35	41.8		26/1/25	6:35	42.5		
25/1/25	22:40	47.7		26/1/25	2:40	40.6		26/1/25	6:40	42.3		
25/1/25	22:45	47.2		26/1/25	2:45	41.1		26/1/25	6:45	46.0		
25/1/25	22:50	49.1		26/1/25	2:50	43.0		26/1/25	6:50	49.1		
25/1/25	22:55	46.6		26/1/25	2:55	39.6		26/1/25	6:55	52.0		
25/1/25	23:00	45.3		26/1/25	3:00	41.0		26/1/25	7:00	52.2		

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd						
SITE LOCATION			NM9 EIA Gillman Barracks						
REPORT REFERENCE			20/01/2025 - 27/01/2025						
Start	26/1/25	7:05	Leq12h	63.3	Weighting			A	
End	26/1/25	19:00							
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m	
26/1/25	7:05	55.9	26/1/25	11:05	50.9	26/1/25	15:05	48.9	
26/1/25	7:10	54.6	26/1/25	11:10	49.4	26/1/25	15:10	47.9	
26/1/25	7:15	53.0	26/1/25	11:15	52.7	26/1/25	15:15	50.0	
26/1/25	7:20	59.7	26/1/25	11:20	50.3	26/1/25	15:20	49.5	
26/1/25	7:25	45.3	26/1/25	11:25	50.8	26/1/25	15:25	50.0	
26/1/25	7:30	44.6	26/1/25	11:30	49.5	26/1/25	15:30	49.3	
26/1/25	7:35	46.2	26/1/25	11:35	50.2	26/1/25	15:35	50.7	
26/1/25	7:40	43.9	26/1/25	11:40	52.0	26/1/25	15:40	54.6	
26/1/25	7:45	44.5	26/1/25	11:45	52.9	26/1/25	15:45	50.0	
26/1/25	7:50	49.6	26/1/25	11:50	51.0	26/1/25	15:50	47.9	
26/1/25	7:55	47.1	26/1/25	11:55	49.5	26/1/25	15:55	48.9	
26/1/25	8:00	45.5	26/1/25	12:00	49.1	26/1/25	16:00	50.2	
26/1/25	8:05	45.7	26/1/25	12:05	49.4	26/1/25	16:05	48.0	
26/1/25	8:10	47.5	26/1/25	12:10	47.4	26/1/25	16:10	48.5	
26/1/25	8:15	46.2	26/1/25	12:15	49.7	26/1/25	16:15	49.8	
26/1/25	8:20	45.7	26/1/25	12:20	50.7	26/1/25	16:20	48.9	
26/1/25	8:25	47.7	26/1/25	12:25	49.6	26/1/25	16:25	53.9	
26/1/25	8:30	49.9	26/1/25	12:30	48.2	26/1/25	16:30	54.8	
26/1/25	8:35	48.0	26/1/25	12:35	49.5	26/1/25	16:35	50.5	
26/1/25	8:40	51.5	26/1/25	12:40	48.5	26/1/25	16:40	49.4	
26/1/25	8:45	49.4	26/1/25	12:45	48.7	26/1/25	16:45	47.4	
26/1/25	8:50	49.9	26/1/25	12:50	48.9	26/1/25	16:50	48.9	
26/1/25	8:55	50.3	26/1/25	12:55	47.2	26/1/25	16:55	50.1	
26/1/25	9:00	47.9	26/1/25	13:00	47.3	26/1/25	17:00	50.1	
26/1/25	9:05	48.0	26/1/25	13:05	50.9	26/1/25	17:05	54.2	
26/1/25	9:10	47.7	26/1/25	13:10	47.8	26/1/25	17:10	69.1	
26/1/25	9:15	48.0	26/1/25	13:15	48.6	26/1/25	17:15	76.1	
26/1/25	9:20	46.9	26/1/25	13:20	48.6	26/1/25	17:20	76.1	
26/1/25	9:25	49.1	26/1/25	13:25	48.7	26/1/25	17:25	75.9	
26/1/25	9:30	47.5	26/1/25	13:30	50.5	26/1/25	17:30	75.1	
26/1/25	9:35	47.9	26/1/25	13:35	48.8	26/1/25	17:35	75.0	
26/1/25	9:40	46.9	26/1/25	13:40	52.0	26/1/25	17:40	74.1	
26/1/25	9:45	45.8	26/1/25	13:45	51.4	26/1/25	17:45	73.1	
26/1/25	9:50	47.0	26/1/25	13:50	48.3	26/1/25	17:50	68.8	
26/1/25	9:55	48.0	26/1/25	13:55	47.4	26/1/25	17:55	72.0	
26/1/25	10:00	48.4	26/1/25	14:00	48.7	26/1/25	18:00	71.2	
26/1/25	10:05	46.1	26/1/25	14:05	48.7	26/1/25	18:05	68.1	
26/1/25	10:10	47.4	26/1/25	14:10	49.4	26/1/25	18:10	64.5	
26/1/25	10:15	49.3	26/1/25	14:15	50.9	26/1/25	18:15	63.1	
26/1/25	10:20	49.2	26/1/25	14:20	50.6	26/1/25	18:20	63.0	
26/1/25	10:25	50.1	26/1/25	14:25	49.0	26/1/25	18:25	62.0	
26/1/25	10:30	49.6	26/1/25	14:30	48.6	26/1/25	18:30	59.7	
26/1/25	10:35	50.5	26/1/25	14:35	48.8	26/1/25	18:35	56.9	
26/1/25	10:40	50.0	26/1/25	14:40	52.0	26/1/25	18:40	55.2	
26/1/25	10:45	50.6	26/1/25	14:45	50.3	26/1/25	18:45	55.6	
26/1/25	10:50	50.0	26/1/25	14:50	49.0	26/1/25	18:50	54.7	
26/1/25	10:55	50.6	26/1/25	14:55	50.3	26/1/25	18:55	54.0	
26/1/25	11:00	49.4	26/1/25	15:00	52.4	26/1/25	19:00	53.9	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM9 EIA Gillman Barracks								
REPORT REFERENCE			20/01/2025 - 27/01/2025								
Start	26/1/25		19:05	Leq12h			61.2		Weighting		A
End	27/1/25		7:00								
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
26/1/25	19:05	52.5	69.2	26/1/25	23:05	46.5	47.3	27/1/25	3:05	43.1	43.0
26/1/25	19:10	51.6		26/1/25	23:10	47.8		27/1/25	3:10	43.1	
26/1/25	19:15	51.4		26/1/25	23:15	50.1		27/1/25	3:15	42.2	
26/1/25	19:20	50.4		26/1/25	23:20	46.9		27/1/25	3:20	43.5	
26/1/25	19:25	50.2		26/1/25	23:25	46.9		27/1/25	3:25	42.5	
26/1/25	19:30	64.3		26/1/25	23:30	47.9		27/1/25	3:30	43.4	
26/1/25	19:35	63.3		26/1/25	23:35	47.0		27/1/25	3:35	43.6	
26/1/25	19:40	71.5		26/1/25	23:40	46.4		27/1/25	3:40	44.3	
26/1/25	19:45	68.2		26/1/25	23:45	46.6		27/1/25	3:45	43.0	
26/1/25	19:50	74.4		26/1/25	23:50	45.4		27/1/25	3:50	42.2	
26/1/25	19:55	72.0	68.2	26/1/25	23:55	47.4	44.6	27/1/25	3:55	41.9	42.2
26/1/25	20:00	74.7		26/1/25	0:00	47.3		27/1/25	4:00	42.2	
26/1/25	20:05	74.3		27/1/25	0:05	44.2		27/1/25	4:05	41.3	
26/1/25	20:10	74.3		27/1/25	0:10	44.1		27/1/25	4:10	41.8	
26/1/25	20:15	71.7		27/1/25	0:15	44.4		27/1/25	4:15	44.2	
26/1/25	20:20	67.1		27/1/25	0:20	44.0		27/1/25	4:20	41.7	
26/1/25	20:25	63.5		27/1/25	0:25	46.0		27/1/25	4:25	42.2	
26/1/25	20:30	61.9		27/1/25	0:30	44.3		27/1/25	4:30	42.0	
26/1/25	20:35	58.7		27/1/25	0:35	44.5		27/1/25	4:35	42.4	
26/1/25	20:40	56.5		27/1/25	0:40	45.4		27/1/25	4:40	41.8	
26/1/25	20:45	56.2	56.9	27/1/25	0:45	44.6	43.7	27/1/25	4:45	41.9	44.0
26/1/25	20:50	55.0		27/1/25	0:50	44.3		27/1/25	4:50	41.5	
26/1/25	20:55	53.8		27/1/25	0:55	45.0		27/1/25	4:55	42.3	
26/1/25	21:00	53.7		27/1/25	1:00	43.8		27/1/25	5:00	42.0	
26/1/25	21:05	53.3		27/1/25	1:05	43.3		27/1/25	5:05	41.6	
26/1/25	21:10	52.4		27/1/25	1:10	44.3		27/1/25	5:10	42.0	
26/1/25	21:15	57.6		27/1/25	1:15	45.0		27/1/25	5:15	44.4	
26/1/25	21:20	60.6		27/1/25	1:20	43.6		27/1/25	5:20	42.9	
26/1/25	21:25	61.6		27/1/25	1:25	43.3		27/1/25	5:25	42.1	
26/1/25	21:30	59.4		27/1/25	1:30	43.2		27/1/25	5:30	42.2	
26/1/25	21:35	54.9	48.7	27/1/25	1:35	43.8	42.9	27/1/25	5:35	43.2	48.2
26/1/25	21:40	54.1		27/1/25	1:40	44.0		27/1/25	5:40	44.6	
26/1/25	21:45	52.9		27/1/25	1:45	43.8		27/1/25	5:45	44.2	
26/1/25	21:50	55.4		27/1/25	1:50	42.5		27/1/25	5:50	45.0	
26/1/25	21:55	52.3		27/1/25	1:55	44.3		27/1/25	5:55	45.3	
26/1/25	22:00	50.8		27/1/25	2:00	42.6		27/1/25	6:00	47.0	
26/1/25	22:05	49.7		27/1/25	2:05	43.2		27/1/25	6:05	48.8	
26/1/25	22:10	49.5		27/1/25	2:10	43.1		27/1/25	6:10	47.4	
26/1/25	22:15	50.0		27/1/25	2:15	42.9		27/1/25	6:15	46.9	
26/1/25	22:20	49.0		27/1/25	2:20	43.2		27/1/25	6:20	47.0	
26/1/25	22:25	48.7	48.7	27/1/25	2:25	42.7	42.9	27/1/25	6:25	45.5	48.2
26/1/25	22:30	48.1		27/1/25	2:30	43.5		27/1/25	6:30	46.9	
26/1/25	22:35	47.4		27/1/25	2:35	42.4		27/1/25	6:35	46.6	
26/1/25	22:40	48.3		27/1/25	2:40	43.2		27/1/25	6:40	47.5	
26/1/25	22:45	48.9		27/1/25	2:45	43.5		27/1/25	6:45	47.1	
26/1/25	22:50	48.2		27/1/25	2:50	42.3		27/1/25	6:50	51.9	
26/1/25	22:55	48.7		27/1/25	2:55	42.5		27/1/25	6:55	49.2	
26/1/25	23:00	47.5		27/1/25	3:00	42.5		27/1/25	7:00	49.0	

CONFIDENTIAL

BASELINE NOISE SURVEY REPORT
NOISE MONITORING ENVIRONMENTAL WORK

REPORT REFERENCE NO: - 25021308/nms/ch2m/NM10GB/NM10

For

CH2M HILL SINGAPORE PTE LTD
150 Beach Road, Gateway West 34th Floor, Singapore 189720

Project Location:
NM10 EIA Gillman Barracks

Attention:
Ms Alicia Wong

Project Title.:
Baseline Noise Survey @ NM10 EIA Gillman Barracks

Monitoring Location:
Gillman Barracks

Date of Monitoring:
04 January 2025 - 11 January 2025

Date of Report:
13 February 2025

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	TABLE OF CONTENT	PAGE
1.0	INTRODUCTION	3
2.0	NOISE SURVEY CONDITION	3
3.0	INSTRUMENTS	4
4.0	NOISE SURVEY TERMS	5
5.0	SURVEYING LOCATIONS	6
6.0	NOISE SURVEY RESULTS	7
7.0	SUMMARY	12
8.0	CONFIRMATION	12
	APPENDIX	
	APPENDIX A: INSTRUMENT LAYOUT PLAN	13
	APPENDIX B: NEA CONSTRUCTION NOISE CONTROL GUIDELINE	14
	APPENDIX C: NOISE MONITORING OFFICER CERTIFICATES	15
	APPENDIX D: INSTRUMENT CALIBRATION CERTIFICATES	17
	APPENDIX E: NOISE DATA	19

1.0 INTRODUCTION

ENSSCOM PTE LTD was commissioned by:

CH2M HILL Singapore Pte Ltd
150 Beach Road, Gateway West 34th Floor, Singapore 189720

The purpose of this survey was to assess the current acoustical environment to establish the baseline background noise level generated before start of construction activities for
Project Title - Baseline Noise Survey @ NM10 EIA Gillman Barracks

The survey is conducted in accordance to the Construction Noise control Guideline on NEA's permissible noise levels for construction sites and industrial premises.

2.0 NOISE SURVEY CONDITION

Report Reference No: 25021308/nms/ch2m/NM10GB/NM10

Date of Report: 13-Feb-2025

Survey On: 4-Jan-2025 (0700hrs) to 11-Jan-2025 (0700hrs)

Operating Condition of Site: All operations were under normal conditions during the noise survey. Construction activities have not begun during period of noise monitoring.

Noise survey was conducted using accepted standard procedures and appropriate sound measuring equipment, which is properly calibrated to ensure accuracy.

All noise measurements were made in terms of A-weighted equivalent continuous sound pressure level in LAeq,T over a period of time T. For example, LAeq,5min are the equivalent sound pressure level measured over a 5-minutes time.

Noise survey was conducted for a full continuous twenty-four (24) hours, Seven (7) days, for **One (1) monitoring points/location**. The noise levels emitted were monitored accordingly and recorded.

The survey is conducted by qualified noise monitoring personnel and reference to Appendix C for their certificate.

3.0 INSTRUMENTS

Monitoring instrument was positioned at between 1.8 meters to 3 meters in height from the floor (Ground Level), Mid Level (5 – 6 storey building height) Or High Level (Roof Level). Overall noise distribution was fairly homogenous throughout the duration of noise survey.

Sound Level Meter used complies and conform to the minimum requirements of a Type 1/Class 1 instrument specified in the International Electrotechnical Commission (IEC) publications of 60651 and 60804.

Before and after the noise measurements, the sound level meter is calibrated to verify the accuracy of the instrument.

3.1 Sound Level Meters

CIRRUS RESEARCH plc, Model: CR191SG
Class 1 Data Logging Sound Level Meter
Serial Number: **G305891**

3.2 Acoustic Calibrator

CIRRUS RESEARCH plc, Model: CR515
Acoustic Calibrator
Serial Number: **60614**

Acoustic Pressure level:	94.01 dB	(reference 20uPa)
Step +20dB:	113.93 dB	
Nominal Frequency:	992 Hz	

The calibration certificate of the monitoring instrument can be found in Appendix D

4.0 NOISE SURVEY TERMS

- 4.1 A Weighting
A standard weighting of the audible frequencies designed to reflect the response of the human ear to noise.
- 4.2 Acoustic Calibrator
An instrument that provides a reference noise source that is used to calibrate and check the performance of a Sound Level Meter.
- 4.3 Broadband
Noise Measurements using parameters, which include all the audible noise
- 4.4 dB(A)
Decibels A Weighted
- 4.5 Decibel (dB)
The units of sound level and noise exposure measurement
- 4.6 Fast Time Weighting
A standard time weighting applied by the Sound Level Meter
- 4.7 IEC 60651:1979
The International Standard for Sound Level Meters
- 4.8 IEC 60804:1984
The International Standard for Integrating & Integrating-Averaging Sound Level Meters
- 4.9 IEC 61260:1995
The International Standard for 1:1 Octave & 1:3 Octave Band Filters
- 4.10 IEC 61672-1:2003
The International Standard for Sound Level Meter and Integrating Averaging Sound Level Meters that replaces both IEC 60651 and IEC 60804
- 4.11 Integrating Averaging Sound Level Meter
A Sound Level Meter which accumulates the total sound energy over a measurement period and calculates an average
- 4.12 LAeq,t
Equivalent continuous sound pressure level. A measure of the average sound pressure level during a period of time, t, in dB with 'A' weighting.
- 4.13 Sound Level
Sound Pressure Level with a Frequency weighting, such as dB(A)
- 4.14 Sound Level Meter
An instrument for measuring various noise parameters
- 4.15 Sound Pressure Level, SPL.
The basic measure of noise loudness, expressed in decibels

6.0 NOISE SURVEY RESULTS

The noise survey was carried out in accordance with the Environmental Pollution Control Act (Chapter 94A, Section 77(1)), Environmental Pollution Control (Control of Noise at Construction Sites) Regulations, 1999.

Monday to Saturday

Types of Affected Building	Maximum Noise Level Permitted for construction sites (reckoned as an equivalent continuous noise level over a period of 5 minutes) in decibel (A)		
	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospitals, Schools, Institutions of Higher Learning, Homes for aged, Sick, etc	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	60 (LEQ 12hr)	50 (LEQ 12hr)	
(b) Residential Buildings Located less than 150m from the construction site where noise is being emitted	90 (Leq 5min)	70 (Leq 5min)	55 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 1hr)	55 (LEQ 1hr)
(c) Buildings (other than those in Paragraphs (a) and (b) above	90 (Leq 5min)	70 (Leq 5min)	70 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 12hr)	

Sunday and Public Holidays

Types of Affected Building	Maximum Noise Level Permitted for construction sites (reckoned as an equivalent continuous noise level over a period of 5 minutes) in decibel (A)		
	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospitals, Schools, Institutions of Higher Learning, Homes for aged, Sick, etc	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	60 (LEQ 12hr)	50 (LEQ 12hr)	
(b) Residential Buildings Located less than 150m from the construction site where noise is being emitted	75 (Leq 5min)	55 (Leq 5min)	55 (Leq 5min)
	75 (LEQ 12hr)	-	-
(c) Buildings (other than those in Paragraphs (a) and (b) above	90 (Leq 5min)	70 (Leq 5min)	70 (Leq 5min)
	75 (LEQ 12hr)	65 (LEQ 12hr)	

Note:

No Work Rule on Sundays and Public Holidays

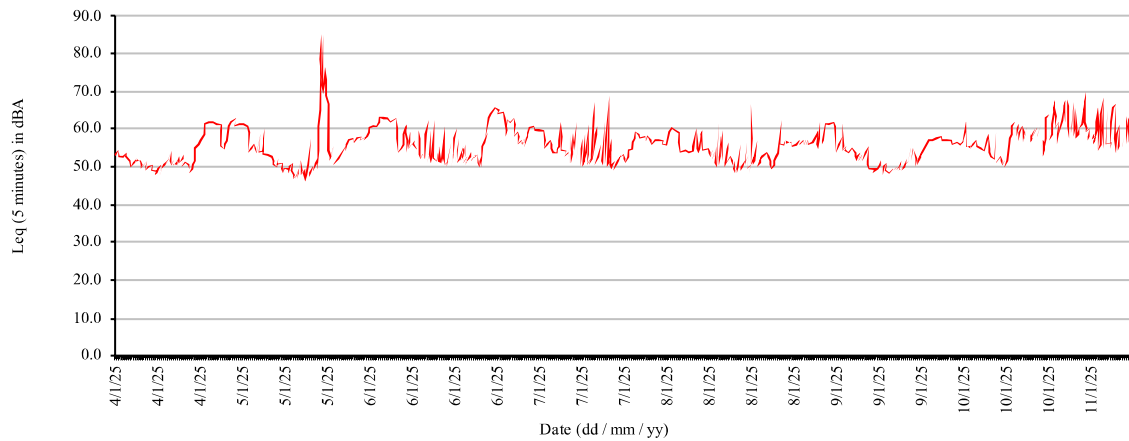
In addition to the settings of the permissible noise limits, NEA has also implemented a rule on prohibition of work on Sundays and Public Holidays (PH) for construction sites located within 150m away from residential premises and noise sensitive premises as follows:

Site Established from 1 September 2011. No work is allowed from 10.00pm on Sat/eve of PH to 7.00am on the following Mon/day after the PH. (For details, please refer to Appendix B)

Survey Results for monitoring point 1 from period : 4-Jan-2025 to 11-Jan-2025

Location : Gillman Barracks

Leq (5 Minutes) Plotted Against Date of Monitoring



Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 5 min in Leq db(A)	Maximum Noise Level permitted for construction sites Leq 5min db (A)
No. NM-10		From		To			
Gillman Barracks	Sat	4/1/25	0700	4/1/25	1900	54.6	90
	Sat	4/1/25	1900	4/1/25	2200	62.1	70
	Sat/Sun	4/1/25	2200	5/1/25	0700	63.1	70
	Sun	5/1/25	0700	5/1/25	1900	85.2	90
	Sun	5/1/25	1900	5/1/25	2200	57.4	70
	Sun/Mon	5/1/25	2200	6/1/25	0700	63.2	70
	Mon	6/1/25	0700	6/1/25	1900	62.4	90
	Mon	6/1/25	1900	6/1/25	2200	65.5	70
	Mon/Tue	6/1/25	2200	7/1/25	0700	65.6	70
	Tue	7/1/25	0700	7/1/25	1900	69.1	90
	Tue	7/1/25	1900	7/1/25	2200	59.2	70
	Tue/Wed	7/1/25	2200	8/1/25	0700	60.2	70
	Wed	8/1/25	0700	8/1/25	1900	66.6	90
	Wed	8/1/25	1900	8/1/25	2200	62.5	70
	Wed/Thu	8/1/25	2200	9/1/25	0700	62.2	70
	Thu	9/1/25	0700	9/1/25	1900	61.4	90
	Thu	9/1/25	1900	9/1/25	2200	57.4	70
	Thu/Fri	9/1/25	2200	10/1/25	0700	61.8	70
	Fri	10/1/25	0700	10/1/25	1900	68.0	90
	Fri	10/1/25	1900	10/1/25	2200	67.9	70
	Fri/Sat	10/1/25	2200	11/1/25	0700	69.8	70

Table 6.1 Summary of Noise Monitoring Results at Maximum Equivalent of LEQ 5 min

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 1 hr in Leq db(A) for the specific period	Maximum Noise Level permitted for construction sites Leq 1 hr db (A)
No. NM-10		From		To			
Gillman Barracks	Sat	4/1/25	1900	4/1/25	2200	59.5	-
	Sat	4/1/25	2200	5/1/25	0700	61.9	-
	Sun	5/1/25	1900	5/1/25	2200	56.6	-
	Sun	5/1/25	2200	6/1/25	0700	62.9	-
	Mon	6/1/25	1900	6/1/25	2200	65.1	-
	Mon	6/1/25	2200	7/1/25	0700	64.7	-
	Tue	7/1/25	1900	7/1/25	2200	57.9	-
	Tue	7/1/25	2200	8/1/25	0700	59.7	-
	Wed	8/1/25	1900	8/1/25	2200	56.4	-
	Wed	8/1/25	2200	9/1/25	0700	61.5	-
	Thu	9/1/25	1900	9/1/25	2200	56.8	-
	Thu	9/1/25	2200	10/1/25	0700	57.8	-
	Fri	10/1/25	1900	10/1/25	2200	64.6	-
	Fri	10/1/25	2200	11/1/25	0700	63.4	-

Table 6.2 Summary of Noise Monitoring Results at Maximum Equivalent of LEQ 1 hr

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over 12 hr in Leq db(A)	Maximum Noise Level permitted for construction sites Leq 12 hr db (A)
No. NM-10		From		To			
Gillman Barracks	Sat	4/1/25	0700	4/1/25	1900	51.4	75
	Sat	4/1/25	1900	5/1/25	0700	59.5	65
	Sun	5/1/25	0700	5/1/25	1900	68.8	75
	Sun	5/1/25	1900	6/1/25	0700	59.5	65
	Mon	6/1/25	0700	6/1/25	1900	54.6	75
	Mon	6/1/25	1900	7/1/25	0700	61.1	65
	Tue	7/1/25	0700	7/1/25	1900	55.7	75
	Tue	7/1/25	1900	8/1/25	0700	56.9	65
	Wed	8/1/25	0700	8/1/25	1900	54.4	75
	Wed	8/1/25	1900	9/1/25	0700	57.9	65
	Thu	9/1/25	0700	9/1/25	1900	51.7	75
	Thu	9/1/25	1900	9/1/25	0700	56.3	65
	Fri	9/1/25	0700	10/1/25	1900	59.2	75
	Fri	10/1/25	1900	11/1/25	0700	61.6	65

Table 6.3 Summary of Noise Monitoring Results at LEQ 12 hr

Noise (Dosimeter)		Duration (DD/MM/YY Hr: Min)				Maximum Equivalent continuous sound level over specific period in Leq db(A)	Maximum Noise Level permitted for construction sites in db (A)
No. NM-10		From		To			
Gillman Barracks	Sat	4/1/25	700	4/1/25	1900	51.4	90(Leq5min) 75 (Leq12hrs)
	Sat	4/1/25	1900	4/1/25	2200	56.5	70 (Leq5min)
	Sat	4/1/25	2200	5/1/25	0000	61.7	70 (Leq5min)
	Sun	5/1/25	0000	5/1/25	700	59.6	70 (Leq5min)
	Sun	5/1/25	700	5/1/25	1900	68.8	90(Leq5min) 75 (Leq12hrs)
	Sun	5/1/25	1900	5/1/25	2200	54.5	70 (Leq5min)
	Sun	5/1/25	2200	6/1/25	0000	57.3	70 (Leq5min)
	Mon	6/1/25	0000	6/1/25	700	61.0	70 (Leq5min)
	Mon	6/1/25	700	6/1/25	1900	54.6	90(Leq5min) 75 (Leq12hrs)
	Mon	6/1/25	1900	6/1/25	2200	62.0	70 (Leq5min)
	Mon	6/1/25	2200	7/1/25	0000	63.7	70 (Leq5min)
	Tue	7/1/25	0000	7/1/25	700	59.4	70 (Leq5min)
	Tue	7/1/25	700	7/1/25	1900	55.7	90(Leq5min) 75 (Leq12hrs)
	Tue	7/1/25	1900	7/1/25	2200	56.2	70 (Leq5min)
	Tue	7/1/25	2200	8/1/25	0000	56.9	70 (Leq5min)
	Wed	8/1/25	0000	8/1/25	700	57.2	70 (Leq5min)
	Wed	8/1/25	700	8/1/25	1900	54.4	90(Leq5min) 75 (Leq12hrs)
	Wed	8/1/25	1900	8/1/25	2200	55.0	70 (Leq5min)
	Wed	8/1/25	2200	9/1/25	0000	56.3	70 (Leq5min)
	Thu	9/1/25	0000	9/1/25	700	59.1	70 (Leq5min)
	Thu	9/1/25	700	9/1/25	1900	51.7	90(Leq5min) 75 (Leq12hrs)
	Thu	9/1/25	1900	9/1/25	2200	55.1	70 (Leq5min)
	Thu	9/1/25	2200	10/1/25	0000	57.5	70 (Leq5min)
	Fri	10/1/25	0000	10/1/25	700	56.3	70 (Leq5min)
	Fri	10/1/25	700	10/1/25	1900	59.2	90(Leq5min) 75 (Leq12hrs)
	Fri	10/1/25	1900	10/1/25	2200	63.1	70 (Leq5min)
	Fri	10/1/25	2200	10/1/25	0000	61.8	70 (Leq5min)
	Sat	11/1/25	0000	11/1/25	0700	60.6	70 (Leq5min)

Table 6.4 Summary of Noise Monitoring Results at Continuous Equivalent of LEQ for specific period

7.0 SUMMARY

The purpose of this survey was to assess the current acoustical environment to establish the background noise level generated over One (1) monitoring point/location for continuous twenty-four (24) hours and seven (7) days noise monitoring at the boundary of the project site for Project Title

Baseline Noise Survey @ NM10 EIA Gillman Barracks

The location of the nearest Noise Receiver (NSR) :

Gillman Barracks

The findings show that,

The ambience noise at NSR Point NM10 at Gillman Barracks Area, falls within the Permissible limits stated in the NEA Guideline on construction noise control for most of the time period daily.

* Refer to Appendix E for full noise data report.

We recommend submitting an appeal to NEA to adjust the Noise Limit as in table 6.5 for NSR Point NM10 at Gillman Barracks Area

Background Noise Correction Factor

The adjusted value for the maximum noise level shall be obtained by adding the correction factor corresponding to the difference between the maximum permitted level and the background noise level, set out in the Table below, to the higher of the 2 noise levels.

Difference between 2 noise levels in decibels (A)	Correction factor in decibels (A)
a) Below 2	3
b) 2 to less than 4	2
c) 4 to less than 10	1
d) 10 and above	NIL

Proposed New Permissible Noise Level for monitoring point: **Gillman Barracks**

Period	Noise Limit	*Equivalent continuous sound level over period in Leq dB(A) - Background Noise	Difference	Correction Factor	Proposed Adjusted New Permissible Level (dBA)
7am to 7pm (Monday to Saturday)	90 (Leq 5min)	59.2	30.8	0	90 (Leq 5min)
	75 (Leq 12hr)	59.2	15.8	0	75 (Leq 12hr)
7pm to 10pm (Monday to Saturday)	70 (Leq 5min)	63.1	6.9	1	71 (Leq 5min)
10pm to 12am (Monday to Saturday)	70 (Leq 5min)	63.7	6.3	1	71 (Leq 5min)
12am to 7am (Monday to Saturday)	70 (Leq 5min)	61.0	9.0	1	71 (Leq 5min)
7pm to 7am (Monday to Saturday)	65 (Leq 12hrs)	61.6	3.4	2	67 (Leq 12hr)
7am to 7pm (Sunday)	90 (Leq 5min)	68.8	21.2	0	90 (Leq 5min)
	75 (Leq 12hr)	68.8	6.2	1	76 (Leq 12hr)
7pm to 10pm (Sunday)	70 (Leq 5min)	54.5	15.5	0	70 (Leq 5min)
10pm to 12am (Sunday)	70 (Leq 5min)	57.3	12.7	0	70 (Leq 5min)
12am to 7am (Sunday)	70 (Leq 5min)	59.6	10.4	0	70 (Leq 5min)
7pm to 7am (Sunday)	65 (Leq 12hrs)	59.5	5.5	1	66 (Leq 12hr)

* The highest equivalent continuous sound level in Leq dB(A) between Monday to Saturday is taken for calculating the adjusted new permissible level for each period.

Table 6.5 Proposed New Permissible Noise Level

8.0 CONFIRMATION

We, ENSSCOM PTE LTD, certify that the information given is correct. The noise survey was conducted for

CH2M HILL Singapore Pte Ltd
150 Beach Road, Gateway West 34th Floor, Singapore 189720

To carry out One (1) monitoring points/locations for continuous twenty-four (24) hours and seven (7) days noise monitoring at the boundary of the project site for Project Title
Baseline Noise Survey @ NM10 EIA Gillman Barracks

was carried out as described in this report and the results resented herein.

Date of Monitoring:

From 4/1/25 (0700hrs) to 11/1/25 (0700hrs)

Hoo Hian Choon (Mr)
Noise Monitoring Consultant
13-Feb-2025

APPENDIX A : INSTRUMENT LAYOUT PLAN



APPENDIX B: NEA CONSTRUCTION NOISE CONTROL GUIDELINE

Construction Noise Control

Maximum Permissible Noise Levels for Construction Work Commenced on or after 1st October 2007

Noise Regulation

Mondays to Saturdays

Types of affected buildings	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospital, schools, institutions of higher learning, homes for aged sick, etc.	60 dBA (Leq* 12 hrs)	50 dBA (Leq 12 hrs)	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(b) Residential buildings located less than 150m from the construction site	75 dBA (Leq 12 hrs)	65 dBA (Leq 1 hr)	55 dBA (Leq 1 hr)
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)
(c) Buildings other than those in (a) and (b) above	75 dBA (Leq 12 hrs)	65 dBA (Leq 12 hrs)	
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	

Sundays and Public Holidays

Types of affected buildings	7am - 7pm	7pm - 10pm	10pm - 7am
(a) Hospital, schools, institutions of higher learning, homes for aged sick, etc.	60 dBA (Leq* 12 hrs)	50 dBA (Leq 12 hrs)	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(b) Residential buildings located less than 150m from the construction site	75 dBA (Leq 12 hrs)	-	
	75 dBA (Leq 5 mins)	55 dBA (Leq 5 mins)	
(c) Buildings other than those in (a) and (b) above	75 dBA (Leq 12 hrs)	65 dBA (Leq 12 hrs)	
	90 dBA (Leq 5 mins)	70 dBA (Leq 5 mins)	

APPENDIX C: NOISE MONITORING OFFICER CERTIFICATES

S/No: 02/20/159



Acoustical Laboratory Pte Ltd
CENTRE FOR ENVIRONMENTAL CONSULTATION AND TRAINING

Certificate of Competence

This is to certify that

Hoo Hian Choon

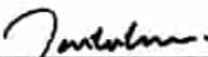
has attended and passed an examination
for a course on

Noise Monitoring

held between 22nd May 2002 and 24th May 2002

Acoustical Laboratory is approved by the Ministry of
Labour as a Training Centre for the
Noise Monitoring Course




Tan Kok Yang
Course Co-ordinator


Koh L. B.
Managing Director



This is to certify that

Hoo Hian Choon

has successfully completed the 2½-day course

Industrial Noise Control

A handwritten signature in black ink, reading "Seah Ben Han".

Seah Ben Han
Director
Centre for Continuing Education

27 August 2010

APPENDIX D: INSTRUMENT CALIBRATION CERTIFICATES

CERTIFICATE OF CALIBRATION		
ISSUED BY: Cirrus Research plc	DATE OF ISSUE: 02 September 2024 CERTIFICATE NUMBER: 221455	
Cirrus Research plc Acoustic House Bridlington Road Hunmanby North Yorkshire YO14 0PH United Kingdom	Page 1 of 2 Approved signatory: K. Deane Electronically signed: 	
Sound Level Meter : IEC 61672-3:2013		
Instrument information		
Manufacturer:	Cirrus Research plc	Notes:
Model:	CR-1915Q	
Serial number:	G305891	
Class:	1	
Firmware version:	6.8.3251	
Test summary		
Date of calibration: 30 August 2024		
The calibration was performed respecting the requirements of ISO/IEC 17025:2017. Periodic tests were performed in accordance with procedures from IEC 61672-3:2013.		
The sound level meter submitted for testing successfully completed the class 1 periodic tests of IEC 61672-3:2013, for the environmental conditions under which the tests were performed.		
Notes		
The Calibration Certificate is valid for 18 months from the date above.		
This certificate provides traceability of measurement to the SI system of units and/or to units of measurement realized at the National Physical Laboratory or other recognized national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory. The results within this certificate relate only to the items calibrated. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a coverage probability of approximately 95%.		

CERTIFICATE OF CALIBRATION

ISSUED BY Cirrus Research plc

DATE OF ISSUE 03 January 2025 CERTIFICATE NUMBER 229571



Cirrus Research plc
Acoustic House
Bridlington Road
Hunmanby
North Yorkshire
YO14 0PH
United Kingdom

Page 1 of 2

Approved signatory
A. Windress
Electronically signed

Sound Calibrator : IEC 60942:2003

Instrument information

Manufacturer: Cirrus Research plc

Notes:

Model: CR-515

Serial number: 60514

Class: 1

Test summary

Date of calibration: 03 January 2025

The sound calibrator detailed above has been calibrated to the published data as described in the operating manual and in the half-inch configuration. The procedures and techniques used are as described in IEC60942_2003 Annex B – Periodic Tests and three determinations of the sound pressure level, frequency and total distortion were made.

The sound pressure level was measured using a WS2F condenser microphone type MK224 manufactured by Cirrus Research plc.

The results have been corrected to the reference pressure of 101.33 kPa using the manufacturer's data.

As public evidence was available, from a testing organisation responsible for approving the results of pattern evaluation tests, to demonstrate that the model of sound calibrator fully conformed to the requirements for pattern evaluation described in Annex A of IEC 60942:2003, the sound calibrator tested is considered to conform to all the Class 1 requirements of IEC 60942:2003.

The manufacturer's product information indicates that this model of sound calibrator has been formally pattern approved to IEC60942_2003 Annex A to Class 1. This has been confirmed by Laboratoire National d'Essais (LNE), Physikalisch-Technische Bundesanstalt (PTB) and APPLUS (APPLUS).

Notes:

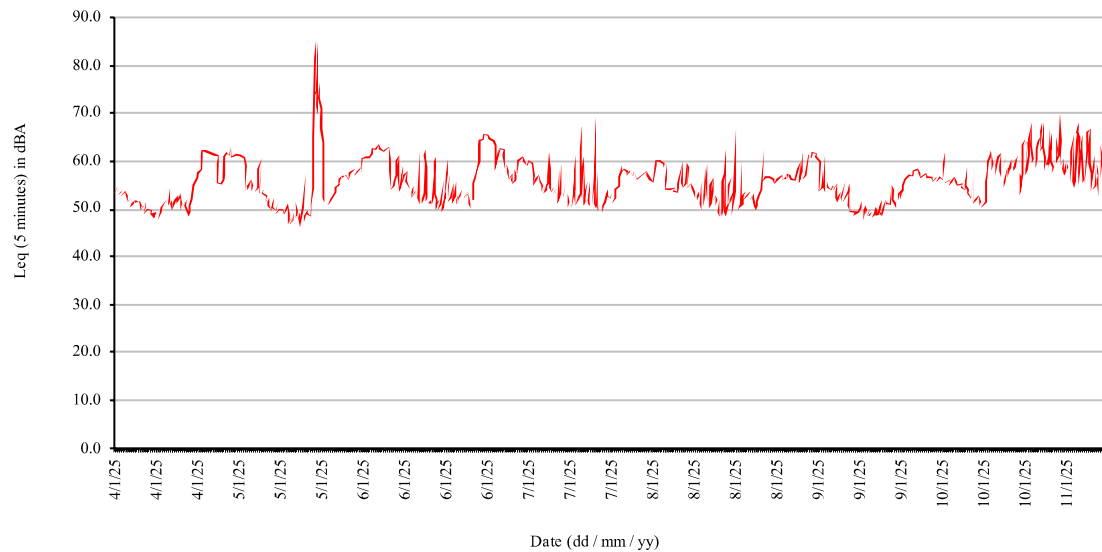
This certificate provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory. The results within this certificate relate only to the items calibrated. The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%.

APPENDIX E

CONSTRUCTION SITE NOISE MONITORING DATA AND CHART

NAME OF COMPANY	CH2M HILL Singapore Pte Ltd		
SITE LOCATION	NM10 EIA Gillman Barracks		
REPORT REFERENCE	04/01/2025 - 11/01/2025		
MODE	Environment	FREQUENCY WEIGHTING	A

Leq (5 Minutes) Plotted Against Date of Monitoring



NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM10 EIA Gillman Barracks								
REPORT REFERENCE			04/01/2025 - 11/01/2025								
Start	4/1/25		7:05	Leq12h	51.4		Weighting		A		
End	4/1/25		19:00								
Date	Time	Leq5m		Date	Time	Leq5m		Date	Time	Leq5m	
4/1/25	7:05	53.3		4/1/25	11:05	51.7		4/1/25	15:05	50.1	
4/1/25	7:10	53.2		4/1/25	11:10	51.1		4/1/25	15:10	50.7	
4/1/25	7:15	52.9		4/1/25	11:15	51.2		4/1/25	15:15	50.0	
4/1/25	7:20	53.0		4/1/25	11:20	50.5		4/1/25	15:20	50.0	
4/1/25	7:25	53.1		4/1/25	11:25	49.6		4/1/25	15:25	51.7	
4/1/25	7:30	54.4		4/1/25	11:30	50.7		4/1/25	15:30	51.2	
4/1/25	7:35	53.8		4/1/25	11:35	50.0		4/1/25	15:35	50.7	
4/1/25	7:40	54.4		4/1/25	11:40	50.3		4/1/25	15:40	49.9	
4/1/25	7:45	52.9		4/1/25	11:45	49.8		4/1/25	15:45	52.0	
4/1/25	7:50	53.0		4/1/25	11:50	50.7		4/1/25	15:50	51.3	
4/1/25	7:55	53.2		4/1/25	11:55	50.0		4/1/25	15:55	51.6	
4/1/25	8:00	53.3		4/1/25	12:00	51.4		4/1/25	16:00	51.8	
4/1/25	8:05	53.3		4/1/25	12:05	50.1		4/1/25	16:05	51.5	
4/1/25	8:10	53.4		4/1/25	12:10	49.0		4/1/25	16:10	54.6	
4/1/25	8:15	53.3		4/1/25	12:15	48.7		4/1/25	16:15	51.5	
4/1/25	8:20	52.9		4/1/25	12:20	49.2		4/1/25	16:20	50.9	
4/1/25	8:25	52.8		4/1/25	12:25	50.0		4/1/25	16:25	50.7	
4/1/25	8:30	53.2		4/1/25	12:30	49.7		4/1/25	16:30	51.7	
4/1/25	8:35	53.3		4/1/25	12:35	50.3		4/1/25	16:35	51.5	
4/1/25	8:40	53.2		4/1/25	12:40	49.8		4/1/25	16:40	51.2	
4/1/25	8:45	53.1		4/1/25	12:45	50.3		4/1/25	16:45	51.2	
4/1/25	8:50	53.7		4/1/25	12:50	50.1		4/1/25	16:50	50.7	
4/1/25	8:55	52.6		4/1/25	12:55	50.4		4/1/25	16:55	50.0	
4/1/25	9:00	53.0		4/1/25	13:00	50.4		4/1/25	17:00	51.2	
4/1/25	9:05	53.1		4/1/25	13:05	49.9		4/1/25	17:05	50.6	
4/1/25	9:10	53.2		4/1/25	13:10	49.8		4/1/25	17:10	50.8	
4/1/25	9:15	52.5		4/1/25	13:15	49.0		4/1/25	17:15	51.5	
4/1/25	9:20	51.6		4/1/25	13:20	48.5		4/1/25	17:20	50.6	
4/1/25	9:25	52.0		4/1/25	13:25	48.8		4/1/25	17:25	51.9	
4/1/25	9:30	51.8	4/1/25	13:30	49.0	4/1/25	17:30	52.6			
4/1/25	9:35	52.1	4/1/25	13:35	49.2	4/1/25	17:35	52.0			
4/1/25	9:40	52.1	4/1/25	13:40	48.8	4/1/25	17:40	51.0			
4/1/25	9:45	51.5	4/1/25	13:45	48.0	4/1/25	17:45	51.1			
4/1/25	9:50	52.3	4/1/25	13:50	48.0	4/1/25	17:50	50.9			
4/1/25	9:55	50.3	4/1/25	13:55	49.5	4/1/25	17:55	51.3			
4/1/25	10:00	51.2	4/1/25	14:00	48.6	4/1/25	18:00	52.2			
4/1/25	10:05	50.5	4/1/25	14:05	49.3	4/1/25	18:05	53.1			
4/1/25	10:10	51.4	4/1/25	14:10	48.1	4/1/25	18:10	51.1			
4/1/25	10:15	51.2	4/1/25	14:15	49.5	4/1/25	18:15	49.8			
4/1/25	10:20	51.9	4/1/25	14:20	49.5	4/1/25	18:20	50.0			
4/1/25	10:25	52.2	4/1/25	14:25	50.6	4/1/25	18:25	50.9			
4/1/25	10:30	52.5	4/1/25	14:30	49.8	4/1/25	18:30	51.2			
4/1/25	10:35	51.1	4/1/25	14:35	47.5	4/1/25	18:35	50.9			
4/1/25	10:40	51.3	4/1/25	14:40	50.6	4/1/25	18:40	50.6			
4/1/25	10:45	50.8	4/1/25	14:45	50.8	4/1/25	18:45	51.2			
4/1/25	10:50	51.0	4/1/25	14:50	49.4	4/1/25	18:50	51.0			
4/1/25	10:55	51.4	4/1/25	14:55	50.3	4/1/25	18:55	51.9			
4/1/25	11:00	51.4	4/1/25	15:00	49.7	4/1/25	19:00	50.7			

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM10 EIA Gillman Barracks								
REPORT REFERENCE			04/01/2025 - 11/01/2025								
Start	4/1/25		19:05	Leq12h		59.5		Weighting		A	
End	5/1/25		7:00								
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
4/1/25	19:05	50.9	50.2	4/1/25	23:05	61.4	61.5	5/1/25	3:05	61.2	61.1
4/1/25	19:10	50.2		4/1/25	23:10	61.5		5/1/25	3:10	61.1	
4/1/25	19:15	50.6		4/1/25	23:15	61.8		5/1/25	3:15	61.0	
4/1/25	19:20	50.5		4/1/25	23:20	61.7		5/1/25	3:20	61.3	
4/1/25	19:25	49.5		4/1/25	23:25	61.7		5/1/25	3:25	61.1	
4/1/25	19:30	49.0		4/1/25	23:30	61.4		5/1/25	3:30	60.9	
4/1/25	19:35	48.6		4/1/25	23:35	61.5		5/1/25	3:35	61.0	
4/1/25	19:40	49.4		4/1/25	23:40	61.4		5/1/25	3:40	61.0	
4/1/25	19:45	50.5		4/1/25	23:45	61.2		5/1/25	3:45	61.1	
4/1/25	19:50	50.4		4/1/25	23:50	61.3		5/1/25	3:50	61.1	
4/1/25	19:55	50.7	55.3	4/1/25	23:55	61.4	59.1	5/1/25	3:55	61.3	61.1
4/1/25	20:00	51.7		4/1/25	0:00	61.4		5/1/25	4:00	61.2	
4/1/25	20:05	52.0		5/1/25	0:05	61.6		5/1/25	4:05	61.3	
4/1/25	20:10	52.3		5/1/25	0:10	61.4		5/1/25	4:10	61.4	
4/1/25	20:15	54.8		5/1/25	0:15	61.2		5/1/25	4:15	61.5	
4/1/25	20:20	55.4		5/1/25	0:20	61.2		5/1/25	4:20	61.1	
4/1/25	20:25	54.8		5/1/25	0:25	61.0		5/1/25	4:25	61.3	
4/1/25	20:30	54.8		5/1/25	0:30	59.5		5/1/25	4:30	61.1	
4/1/25	20:35	55.5		5/1/25	0:35	55.5		5/1/25	4:35	60.9	
4/1/25	20:40	55.8		5/1/25	0:40	55.9		5/1/25	4:40	61.1	
4/1/25	20:45	55.4	59.5	5/1/25	0:45	55.9	59.1	5/1/25	4:45	61.0	56.2
4/1/25	20:50	56.2		5/1/25	0:50	55.9		5/1/25	4:50	60.9	
4/1/25	20:55	56.6		5/1/25	0:55	55.6		5/1/25	4:55	60.8	
4/1/25	21:00	57.0		5/1/25	1:00	54.7		5/1/25	5:00	60.6	
4/1/25	21:05	57.4		5/1/25	1:05	55.3		5/1/25	5:05	60.4	
4/1/25	21:10	57.6		5/1/25	1:10	55.8		5/1/25	5:10	59.1	
4/1/25	21:15	57.6		5/1/25	1:15	55.5		5/1/25	5:15	53.6	
4/1/25	21:20	57.3		5/1/25	1:20	55.9		5/1/25	5:20	53.4	
4/1/25	21:25	57.3		5/1/25	1:25	56.0		5/1/25	5:25	54.8	
4/1/25	21:30	57.6		5/1/25	1:30	56.3		5/1/25	5:30	54.7	
4/1/25	21:35	57.7	61.9	5/1/25	1:35	56.9	61.5	5/1/25	5:35	55.3	55.1
4/1/25	21:40	58.4		5/1/25	1:40	61.0		5/1/25	5:40	54.1	
4/1/25	21:45	61.3		5/1/25	1:45	61.5		5/1/25	5:45	54.8	
4/1/25	21:50	61.8		5/1/25	1:50	61.4		5/1/25	5:50	55.2	
4/1/25	21:55	62.0		5/1/25	1:55	61.5		5/1/25	5:55	56.0	
4/1/25	22:00	62.1		5/1/25	2:00	61.6		5/1/25	6:00	56.0	
4/1/25	22:05	62.1		5/1/25	2:05	61.3		5/1/25	6:05	56.0	
4/1/25	22:10	62.1		5/1/25	2:10	61.3		5/1/25	6:10	56.0	
4/1/25	22:15	61.9		5/1/25	2:15	61.4		5/1/25	6:15	54.9	
4/1/25	22:20	62.0		5/1/25	2:20	61.3		5/1/25	6:20	54.5	
4/1/25	22:25	61.9	5/1/25	2:25	61.4	5/1/25	6:25	54.4			
4/1/25	22:30	61.8	5/1/25	2:30	61.4	5/1/25	6:30	53.8			
4/1/25	22:35	61.8	5/1/25	2:35	61.8	5/1/25	6:35	53.8			
4/1/25	22:40	61.8	5/1/25	2:40	63.1	5/1/25	6:40	53.8			
4/1/25	22:45	61.9	5/1/25	2:45	62.3	5/1/25	6:45	53.9			
4/1/25	22:50	61.7	5/1/25	2:50	60.7	5/1/25	6:50	58.9			
4/1/25	22:55	61.8	5/1/25	2:55	60.8	5/1/25	6:55	53.6			
4/1/25	23:00	61.6	61.9	5/1/25	3:00	61.2	61.5	5/1/25	7:00	53.3	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd									
SITE LOCATION			NM10 EIA Gillman Barracks									
REPORT REFERENCE			04/01/2025 - 11/01/2025									
Start	5/1/25		7:05	Leq12h			68.8		Weighting		A	
End	5/1/25		19:00									
Date	Time	Leq5m		Date	Time	Leq5m		Date	Time	Leq5m		
5/1/25	7:05	53.4		5/1/25	11:05	49.6		5/1/25	15:05	57.4		
5/1/25	7:10	53.2		5/1/25	11:10	49.3		5/1/25	15:10	54.7		
5/1/25	7:15	53.9		5/1/25	11:15	49.2		5/1/25	15:15	47.3		
5/1/25	7:20	54.4		5/1/25	11:20	49.6		5/1/25	15:20	48.4		
5/1/25	7:25	54.2		5/1/25	11:25	49.4		5/1/25	15:25	48.9		
5/1/25	7:30	58.4		5/1/25	11:30	50.0		5/1/25	15:30	49.0		
5/1/25	7:35	60.3		5/1/25	11:35	50.1		5/1/25	15:35	49.9		
5/1/25	7:40	53.3		5/1/25	11:40	50.1		5/1/25	15:40	49.9		
5/1/25	7:45	53.4		5/1/25	11:45	49.7		5/1/25	15:45	49.0		
5/1/25	7:50	53.3		5/1/25	11:50	49.1		5/1/25	15:50	49.0		
5/1/25	7:55	53.4		5/1/25	11:55	48.6		5/1/25	15:55	49.3		
5/1/25	8:00	54.0		5/1/25	12:00	50.3		5/1/25	16:00	48.8		
5/1/25	8:05	53.4		5/1/25	12:05	50.6		5/1/25	16:05	48.6		
5/1/25	8:10	53.2		5/1/25	12:10	51.2		5/1/25	16:10	48.7		
5/1/25	8:15	53.0		5/1/25	12:15	50.6		5/1/25	16:15	51.0		
5/1/25	8:20	53.1		5/1/25	12:20	49.0		5/1/25	16:20	52.4		
5/1/25	8:25	53.1		5/1/25	12:25	47.8		5/1/25	16:25	49.7		
5/1/25	8:30	53.1		5/1/25	12:30	48.0		5/1/25	16:30	49.6		
5/1/25	8:35	52.7		5/1/25	12:35	46.7		5/1/25	16:35	54.5		
5/1/25	8:40	53.1		5/1/25	12:40	46.8		5/1/25	16:40	60.7		
5/1/25	8:45	52.7		5/1/25	12:45	48.0		5/1/25	16:45	65.2		
5/1/25	8:50	51.6		5/1/25	12:50	47.5		5/1/25	16:50	81.4		
5/1/25	8:55	52.1		5/1/25	12:55	47.8		5/1/25	16:55	85.2		
5/1/25	9:00	52.5		5/1/25	13:00	47.0		5/1/25	17:00	78.6		
5/1/25	9:05	51.5		5/1/25	13:05	47.6		5/1/25	17:05	73.4		
5/1/25	9:10	50.8		5/1/25	13:10	49.4		5/1/25	17:10	74.8		
5/1/25	9:15	51.1		5/1/25	13:15	48.4		5/1/25	17:15	84.9		
5/1/25	9:20	50.2		5/1/25	13:20	47.0		5/1/25	17:20	71.6		
5/1/25	9:25	51.2		5/1/25	13:25	46.9		5/1/25	17:25	71.3		
5/1/25	9:30	50.7	5/1/25	13:30	46.5	5/1/25	17:30	69.6				
5/1/25	9:35	50.3	5/1/25	13:35	46.3	5/1/25	17:35	71.9				
5/1/25	9:40	50.0	5/1/25	13:40	51.5	5/1/25	17:40	76.5				
5/1/25	9:45	49.9	5/1/25	13:45	51.8	5/1/25	17:45	73.1				
5/1/25	9:50	52.3	5/1/25	13:50	51.6	5/1/25	17:50	71.0				
5/1/25	9:55	50.4	5/1/25	13:55	49.2	5/1/25	17:55	71.2				
5/1/25	10:00	50.4	5/1/25	14:00	48.1	5/1/25	18:00	68.6				
5/1/25	10:05	50.4	5/1/25	14:05	48.5	5/1/25	18:05	66.6				
5/1/25	10:10	50.2	5/1/25	14:10	48.0	5/1/25	18:10	63.7				
5/1/25	10:15	50.2	5/1/25	14:15	49.5	5/1/25	18:15	56.2				
5/1/25	10:20	49.9	5/1/25	14:20	48.2	5/1/25	18:20	54.4				
5/1/25	10:25	51.0	5/1/25	14:25	46.3	5/1/25	18:25	53.0				
5/1/25	10:30	49.6	5/1/25	14:30	48.0	5/1/25	18:30	52.4				
5/1/25	10:35	49.0	5/1/25	14:35	47.9	5/1/25	18:35	52.0				
5/1/25	10:40	49.0	5/1/25	14:40	48.6	5/1/25	18:40	51.6				
5/1/25	10:45	48.7	5/1/25	14:45	47.5	5/1/25	18:45	51.2				
5/1/25	10:50	49.7	5/1/25	14:50	48.5	5/1/25	18:50	55.3				
5/1/25	10:55	49.3	5/1/25	14:55	48.5	5/1/25	18:55	52.2				
5/1/25	11:00	50.1	5/1/25	15:00	50.4	5/1/25	19:00	53.6				

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM10 EIA Gillman Barracks								
REPORT REFERENCE			04/01/2025 - 11/01/2025								
Start	5/1/25		19:05	Leq12h			59.5		Weighting		A
End	6/1/25		7:00								
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
5/1/25	19:05	50.7	51.3	5/1/25	23:05	57.2	57.5	6/1/25	3:05	62.7	62.9
5/1/25	19:10	51.1		5/1/25	23:10	57.2		6/1/25	3:10	62.8	
5/1/25	19:15	51.6		5/1/25	23:15	57.5		6/1/25	3:15	62.7	
5/1/25	19:20	50.7		5/1/25	23:20	58.2		6/1/25	3:20	62.7	
5/1/25	19:25	50.8		5/1/25	23:25	57.9		6/1/25	3:25	62.9	
5/1/25	19:30	50.3		5/1/25	23:30	57.9		6/1/25	3:30	63.1	
5/1/25	19:35	51.0		5/1/25	23:35	58.0		6/1/25	3:35	63.2	
5/1/25	19:40	50.5		5/1/25	23:40	57.2		6/1/25	3:40	62.9	
5/1/25	19:45	52.0		5/1/25	23:45	56.9		6/1/25	3:45	63.0	
5/1/25	19:50	51.6		5/1/25	23:50	57.2		6/1/25	3:50	63.0	
5/1/25	19:55	51.5	54.2	5/1/25	23:55	57.0	58.3	6/1/25	3:55	62.7	62.3
5/1/25	20:00	52.8		5/1/25	0:00	57.8		6/1/25	4:00	62.7	
5/1/25	20:05	52.8		6/1/25	0:05	58.0		6/1/25	4:05	62.7	
5/1/25	20:10	53.2		6/1/25	0:10	57.3		6/1/25	4:10	62.5	
5/1/25	20:15	53.8		6/1/25	0:15	57.3		6/1/25	4:15	62.4	
5/1/25	20:20	53.7		6/1/25	0:20	57.8		6/1/25	4:20	62.3	
5/1/25	20:25	53.8		6/1/25	0:25	58.0		6/1/25	4:25	62.4	
5/1/25	20:30	54.4		6/1/25	0:30	58.0		6/1/25	4:30	62.1	
5/1/25	20:35	54.1		6/1/25	0:35	57.9		6/1/25	4:35	62.2	
5/1/25	20:40	54.0		6/1/25	0:40	58.8		6/1/25	4:40	62.2	
5/1/25	20:45	54.0	56.6	6/1/25	0:45	57.6	60.8	6/1/25	4:45	62.1	60.8
5/1/25	20:50	54.5		6/1/25	0:50	58.2		6/1/25	4:50	62.1	
5/1/25	20:55	55.3		6/1/25	0:55	59.0		6/1/25	4:55	62.1	
5/1/25	21:00	55.7		6/1/25	1:00	60.4		6/1/25	5:00	62.1	
5/1/25	21:05	54.3		6/1/25	1:05	60.5		6/1/25	5:05	62.3	
5/1/25	21:10	56.1		6/1/25	1:10	60.9		6/1/25	5:10	63.0	
5/1/25	21:15	56.4		6/1/25	1:15	61.0		6/1/25	5:15	62.9	
5/1/25	21:20	56.8		6/1/25	1:20	61.0		6/1/25	5:20	63.0	
5/1/25	21:25	56.2		6/1/25	1:25	60.8		6/1/25	5:25	62.8	
5/1/25	21:30	56.8		6/1/25	1:30	60.4		6/1/25	5:30	62.3	
5/1/25	21:35	56.5	57.1	6/1/25	1:35	60.6	62.1	6/1/25	5:35	60.5	57.4
5/1/25	21:40	56.9		6/1/25	1:40	60.4		6/1/25	5:40	58.6	
5/1/25	21:45	57.4		6/1/25	1:45	60.6		6/1/25	5:45	57.7	
5/1/25	21:50	57.0		6/1/25	1:50	61.0		6/1/25	5:50	53.9	
5/1/25	21:55	57.0		6/1/25	1:55	61.4		6/1/25	5:55	53.9	
5/1/25	22:00	57.0		6/1/25	2:00	60.9		6/1/25	6:00	54.0	
5/1/25	22:05	57.5		6/1/25	2:05	61.0		6/1/25	6:05	53.8	
5/1/25	22:10	57.0		6/1/25	2:10	61.1		6/1/25	6:10	54.5	
5/1/25	22:15	57.3		6/1/25	2:15	61.2		6/1/25	6:15	54.9	
5/1/25	22:20	56.9		6/1/25	2:20	61.2		6/1/25	6:20	54.7	
5/1/25	22:25	56.8	57.1	6/1/25	2:25	61.4	62.1	6/1/25	6:25	55.3	57.4
5/1/25	22:30	56.8		6/1/25	2:30	61.8		6/1/25	6:30	55.8	
5/1/25	22:35	56.7		6/1/25	2:35	62.6		6/1/25	6:35	55.8	
5/1/25	22:40	56.3		6/1/25	2:40	62.8		6/1/25	6:40	56.8	
5/1/25	22:45	56.6		6/1/25	2:45	62.8		6/1/25	6:45	58.5	
5/1/25	22:50	57.4		6/1/25	2:50	62.9		6/1/25	6:50	60.1	
5/1/25	22:55	57.5		6/1/25	2:55	62.8		6/1/25	6:55	61.1	
5/1/25	23:00	57.6		6/1/25	3:00	62.8		6/1/25	7:00	59.3	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd									
SITE LOCATION			NM10 EIA Gillman Barracks									
REPORT REFERENCE			04/01/2025 - 11/01/2025									
Start	6/1/25		7:05	Leq12h			54.6		Weighting		A	
End	6/1/25		19:00									
Date	Time	Leq5m		Date	Time	Leq5m		Date	Time	Leq5m		
6/1/25	7:05	59.0		6/1/25	11:05	53.1		6/1/25	15:05	57.4		
6/1/25	7:10	57.0		6/1/25	11:10	51.1		6/1/25	15:10	60.5		
6/1/25	7:15	53.7		6/1/25	11:15	51.7		6/1/25	15:15	51.1		
6/1/25	7:20	53.8		6/1/25	11:20	51.7		6/1/25	15:20	52.9		
6/1/25	7:25	54.3		6/1/25	11:25	53.0		6/1/25	15:25	54.5		
6/1/25	7:30	54.1		6/1/25	11:30	62.4		6/1/25	15:30	51.7		
6/1/25	7:35	59.3		6/1/25	11:35	61.4		6/1/25	15:35	51.8		
6/1/25	7:40	56.6		6/1/25	11:40	58.9		6/1/25	15:40	57.5		
6/1/25	7:45	54.7		6/1/25	11:45	52.4		6/1/25	15:45	51.3		
6/1/25	7:50	55.2		6/1/25	11:50	52.5		6/1/25	15:50	51.2		
6/1/25	7:55	54.5		6/1/25	11:55	51.5		6/1/25	15:55	52.4		
6/1/25	8:00	54.7		6/1/25	12:00	52.1		6/1/25	16:00	52.4		
6/1/25	8:05	55.4		6/1/25	12:05	52.0		6/1/25	16:05	52.3		
6/1/25	8:10	57.0		6/1/25	12:10	51.6		6/1/25	16:10	55.5		
6/1/25	8:15	57.7		6/1/25	12:15	55.6		6/1/25	16:15	51.7		
6/1/25	8:20	55.8		6/1/25	12:20	51.1		6/1/25	16:20	51.1		
6/1/25	8:25	55.5		6/1/25	12:25	51.2		6/1/25	16:25	51.6		
6/1/25	8:30	55.9		6/1/25	12:30	51.8		6/1/25	16:30	52.6		
6/1/25	8:35	55.2		6/1/25	12:35	51.0		6/1/25	16:35	55.8		
6/1/25	8:40	55.6		6/1/25	12:40	51.8		6/1/25	16:40	52.4		
6/1/25	8:45	55.2		6/1/25	12:45	51.7		6/1/25	16:45	51.0		
6/1/25	8:50	55.1		6/1/25	12:50	51.1		6/1/25	16:50	52.6		
6/1/25	8:55	54.3		6/1/25	12:55	50.7		6/1/25	16:55	52.8		
6/1/25	9:00	54.8		6/1/25	13:00	52.2		6/1/25	17:00	52.0		
6/1/25	9:05	59.5		6/1/25	13:05	52.3		6/1/25	17:05	50.8		
6/1/25	9:10	57.6		6/1/25	13:10	60.6		6/1/25	17:10	52.7		
6/1/25	9:15	53.6		6/1/25	13:15	60.0		6/1/25	17:15	51.5		
6/1/25	9:20	54.9		6/1/25	13:20	53.1		6/1/25	17:20	52.3		
6/1/25	9:25	53.5		6/1/25	13:25	52.0		6/1/25	17:25	52.2		
6/1/25	9:30	54.0		6/1/25	13:30	50.7		6/1/25	17:30	52.1		
6/1/25	9:35	52.2		6/1/25	13:35	50.0		6/1/25	17:35	52.6		
6/1/25	9:40	52.6		6/1/25	13:40	51.0		6/1/25	17:40	53.9		
6/1/25	9:45	53.4		6/1/25	13:45	50.8		6/1/25	17:45	52.7		
6/1/25	9:50	53.9		6/1/25	13:50	51.9		6/1/25	17:50	52.1		
6/1/25	9:55	53.8		6/1/25	13:55	51.7		6/1/25	17:55	51.7		
6/1/25	10:00	53.0		6/1/25	14:00	50.0		6/1/25	18:00	52.1		
6/1/25	10:05	52.7		6/1/25	14:05	51.0		6/1/25	18:05	52.0		
6/1/25	10:10	52.4		6/1/25	14:10	50.9		6/1/25	18:10	53.3		
6/1/25	10:15	56.9		6/1/25	14:15	50.5		6/1/25	18:15	53.0		
6/1/25	10:20	55.0		6/1/25	14:20	51.2		6/1/25	18:20	53.4		
6/1/25	10:25	58.7		6/1/25	14:25	56.3		6/1/25	18:25	52.2		
6/1/25	10:30	62.2		6/1/25	14:30	52.6		6/1/25	18:30	52.6		
6/1/25	10:35	52.3		6/1/25	14:35	49.4		6/1/25	18:35	53.5		
6/1/25	10:40	51.1		6/1/25	14:40	50.4		6/1/25	18:40	52.5		
6/1/25	10:45	52.9		6/1/25	14:45	53.4		6/1/25	18:45	53.3		
6/1/25	10:50	52.2		6/1/25	14:50	52.2		6/1/25	18:50	53.6		
6/1/25	10:55	51.8		6/1/25	14:55	52.4		6/1/25	18:55	53.1		
6/1/25	11:00	59.5		6/1/25	15:00	51.6		6/1/25	19:00	52.6		

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM10 EIA Gillman Barracks							
REPORT REFERENCE				04/01/2025 - 11/01/2025							
Start	6/1/25	19:05		Leq12h	61.1			Weighting		A	
End	7/1/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
6/1/25	19:05	51.1		6/1/25	23:05	63.9		7/1/25	3:05	60.4	
6/1/25	19:10	51.4		6/1/25	23:10	64.2		7/1/25	3:10	57.1	
6/1/25	19:15	50.3		6/1/25	23:15	64.1		7/1/25	3:15	57.3	
6/1/25	19:20	51.9		6/1/25	23:20	63.2		7/1/25	3:20	60.1	
6/1/25	19:25	52.5		6/1/25	23:25	63.1		7/1/25	3:25	60.3	
6/1/25	19:30	50.0		6/1/25	23:30	59.5		7/1/25	3:30	60.2	
6/1/25	19:35	51.7		6/1/25	23:35	57.9		7/1/25	3:35	60.4	
6/1/25	19:40	53.9		6/1/25	23:40	60.7		7/1/25	3:40	59.8	
6/1/25	19:45	55.5		6/1/25	23:45	62.6		7/1/25	3:45	60.4	
6/1/25	19:50	55.9		6/1/25	23:50	62.8		7/1/25	3:50	60.9	
6/1/25	19:55	56.4		6/1/25	23:55	62.4		7/1/25	3:55	60.6	
6/1/25	20:00	56.4	53.7	6/1/25	0:00	62.4	62.6	7/1/25	4:00	60.6	60.0
6/1/25	20:05	56.5		7/1/25	0:05	62.4		7/1/25	4:05	60.2	
6/1/25	20:10	56.5		7/1/25	0:10	61.9		7/1/25	4:10	60.2	
6/1/25	20:15	59.2		7/1/25	0:15	61.8		7/1/25	4:15	60.3	
6/1/25	20:20	57.6		7/1/25	0:20	62.5		7/1/25	4:20	59.8	
6/1/25	20:25	59.3		7/1/25	0:25	62.6		7/1/25	4:25	60.0	
6/1/25	20:30	59.2		7/1/25	0:30	62.5		7/1/25	4:30	60.1	
6/1/25	20:35	59.2		7/1/25	0:35	62.5		7/1/25	4:35	59.7	
6/1/25	20:40	59.9		7/1/25	0:40	62.3		7/1/25	4:40	59.5	
6/1/25	20:45	63.2		7/1/25	0:45	62.7		7/1/25	4:45	59.6	
6/1/25	20:50	64.2		7/1/25	0:50	62.4		7/1/25	4:50	59.2	
6/1/25	20:55	64.3		7/1/25	0:55	62.4		7/1/25	4:55	59.5	
6/1/25	21:00	64.3	61.2	7/1/25	1:00	61.4	62.3	7/1/25	5:00	60.0	59.9
6/1/25	21:05	64.5		7/1/25	1:05	58.2		7/1/25	5:05	59.6	
6/1/25	21:10	64.5		7/1/25	1:10	58.6		7/1/25	5:10	59.7	
6/1/25	21:15	64.6		7/1/25	1:15	59.0		7/1/25	5:15	59.8	
6/1/25	21:20	64.6		7/1/25	1:20	59.0		7/1/25	5:20	59.8	
6/1/25	21:25	64.6		7/1/25	1:25	58.8		7/1/25	5:25	60.0	
6/1/25	21:30	65.5		7/1/25	1:30	58.9		7/1/25	5:30	59.7	
6/1/25	21:35	65.4		7/1/25	1:35	59.0		7/1/25	5:35	59.7	
6/1/25	21:40	65.2		7/1/25	1:40	57.9		7/1/25	5:40	59.9	
6/1/25	21:45	65.5		7/1/25	1:45	56.2		7/1/25	5:45	59.6	
6/1/25	21:50	65.4		7/1/25	1:50	56.5		7/1/25	5:50	59.7	
6/1/25	21:55	65.5		7/1/25	1:55	56.3		7/1/25	5:55	59.8	
6/1/25	22:00	65.3	65.1	7/1/25	2:00	55.9	58.0	7/1/25	6:00	60.0	59.8
6/1/25	22:05	65.6		7/1/25	2:05	56.9		7/1/25	6:05	57.0	
6/1/25	22:10	65.2		7/1/25	2:10	56.1		7/1/25	6:10	55.0	
6/1/25	22:15	65.4		7/1/25	2:15	57.4		7/1/25	6:15	54.6	
6/1/25	22:20	64.8		7/1/25	2:20	56.6		7/1/25	6:20	54.5	
6/1/25	22:25	64.2		7/1/25	2:25	56.3		7/1/25	6:25	55.0	
6/1/25	22:30	64.3		7/1/25	2:30	56.6		7/1/25	6:30	56.0	
6/1/25	22:35	64.4		7/1/25	2:35	55.5		7/1/25	6:35	56.5	
6/1/25	22:40	64.4		7/1/25	2:40	55.0		7/1/25	6:40	56.3	
6/1/25	22:45	64.4		7/1/25	2:45	55.0		7/1/25	6:45	57.2	
6/1/25	22:50	64.3		7/1/25	2:50	55.0		7/1/25	6:50	57.6	
6/1/25	22:55	64.3		7/1/25	2:55	56.0		7/1/25	6:55	56.7	
6/1/25	23:00	64.2	64.7	7/1/25	3:00	58.1	56.3	7/1/25	7:00	55.8	56.1

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd										
SITE LOCATION			NM10 EIA Gillman Barracks										
REPORT REFERENCE			04/01/2025 - 11/01/2025										
Start	7/1/25		7:05	Leq12h			55.7			Weighting		A	
End	7/1/25		19:00										
Date	Time	Leq5m		Date	Time	Leq5m		Date	Time	Leq5m			
7/1/25	7:05	55.4		7/1/25	11:05	53.0		7/1/25	15:05	51.7			
7/1/25	7:10	55.1		7/1/25	11:10	55.5		7/1/25	15:10	50.7			
7/1/25	7:15	54.9		7/1/25	11:15	52.4		7/1/25	15:15	55.8			
7/1/25	7:20	53.6		7/1/25	11:20	59.9		7/1/25	15:20	51.6			
7/1/25	7:25	53.6		7/1/25	11:25	52.1		7/1/25	15:25	51.2			
7/1/25	7:30	53.5		7/1/25	11:30	52.0		7/1/25	15:30	51.1			
7/1/25	7:35	54.5		7/1/25	11:35	53.0		7/1/25	15:35	51.6			
7/1/25	7:40	53.3		7/1/25	11:40	51.5		7/1/25	15:40	50.7			
7/1/25	7:45	53.2		7/1/25	11:45	52.8		7/1/25	15:45	62.1			
7/1/25	7:50	53.2		7/1/25	11:50	50.3		7/1/25	15:50	51.3			
7/1/25	7:55	53.8		7/1/25	11:55	57.5		7/1/25	15:55	58.7			
7/1/25	8:00	54.1		7/1/25	12:00	57.4		7/1/25	16:00	52.7			
7/1/25	8:05	55.4		7/1/25	12:05	54.8		7/1/25	16:05	50.5			
7/1/25	8:10	54.5		7/1/25	12:10	49.9		7/1/25	16:10	57.1			
7/1/25	8:15	54.1		7/1/25	12:15	58.4		7/1/25	16:15	69.1			
7/1/25	8:20	55.3		7/1/25	12:20	51.9		7/1/25	16:20	51.0			
7/1/25	8:25	56.8		7/1/25	12:25	50.3		7/1/25	16:25	51.3			
7/1/25	8:30	61.7		7/1/25	12:30	50.4		7/1/25	16:30	50.3			
7/1/25	8:35	58.3		7/1/25	12:35	50.5		7/1/25	16:35	54.1			
7/1/25	8:40	54.4		7/1/25	12:40	49.9		7/1/25	16:40	57.7			
7/1/25	8:45	54.2		7/1/25	12:45	50.5		7/1/25	16:45	50.8			
7/1/25	8:50	54.2		7/1/25	12:50	54.0		7/1/25	16:50	49.8			
7/1/25	8:55	54.4		7/1/25	12:55	61.3		7/1/25	16:55	51.1			
7/1/25	9:00	54.7		7/1/25	13:00	53.5		7/1/25	17:00	49.5			
7/1/25	9:05	53.8		7/1/25	13:05	50.8		7/1/25	17:05	50.2			
7/1/25	9:10	54.2		7/1/25	13:10	50.6		7/1/25	17:10	50.6			
7/1/25	9:15	54.3		7/1/25	13:15	52.0		7/1/25	17:15	50.0			
7/1/25	9:20	54.4		7/1/25	13:20	50.7		7/1/25	17:20	51.5			
7/1/25	9:25	53.0		7/1/25	13:25	50.4		7/1/25	17:25	51.9			
7/1/25	9:30	53.3		7/1/25	13:30	50.6		7/1/25	17:30	49.2			
7/1/25	9:35	54.0		7/1/25	13:35	51.1		7/1/25	17:35	50.6			
7/1/25	9:40	53.7		7/1/25	13:40	52.4		7/1/25	17:40	49.8			
7/1/25	9:45	53.7		7/1/25	13:45	53.1		7/1/25	17:45	50.6			
7/1/25	9:50	53.2		7/1/25	13:50	53.4		7/1/25	17:50	50.4			
7/1/25	9:55	52.9		7/1/25	13:55	62.7		7/1/25	17:55	51.0			
7/1/25	10:00	53.1		7/1/25	14:00	67.0		7/1/25	18:00	51.1			
7/1/25	10:05	58.4		7/1/25	14:05	52.2		7/1/25	18:05	51.4			
7/1/25	10:10	52.3		7/1/25	14:10	51.7		7/1/25	18:10	51.8			
7/1/25	10:15	51.0		7/1/25	14:15	58.9		7/1/25	18:15	53.1			
7/1/25	10:20	51.3		7/1/25	14:20	60.9		7/1/25	18:20	53.9			
7/1/25	10:25	53.2		7/1/25	14:25	51.6		7/1/25	18:25	52.9			
7/1/25	10:30	59.2		7/1/25	14:30	50.5		7/1/25	18:30	52.3			
7/1/25	10:35	53.2		7/1/25	14:35	51.2		7/1/25	18:35	52.8			
7/1/25	10:40	52.6		7/1/25	14:40	52.9		7/1/25	18:40	53.0			
7/1/25	10:45	52.7		7/1/25	14:45	52.2		7/1/25	18:45	53.1			
7/1/25	10:50	54.1		7/1/25	14:50	53.2		7/1/25	18:50	52.7			
7/1/25	10:55	61.7		7/1/25	14:55	55.9		7/1/25	18:55	52.3			
7/1/25	11:00	52.9		7/1/25	15:00	51.0		7/1/25	19:00	52.1			

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM10 EIA Gillman Barracks							
REPORT REFERENCE				04/01/2025 - 11/01/2025							
Start	7/1/25	19:05		Leq12h	56.9			Weighting		A	
End	8/1/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
7/1/25	19:05	52.4		7/1/25	23:05	57.0		8/1/25	3:05	59.7	
7/1/25	19:10	53.0		7/1/25	23:10	56.7		8/1/25	3:10	59.9	
7/1/25	19:15	53.0		7/1/25	23:15	56.8		8/1/25	3:15	59.9	
7/1/25	19:20	52.8		7/1/25	23:20	56.2		8/1/25	3:20	59.6	
7/1/25	19:25	50.9		7/1/25	23:25	56.7		8/1/25	3:25	59.9	
7/1/25	19:30	51.1		7/1/25	23:30	56.9		8/1/25	3:30	59.8	
7/1/25	19:35	51.0		7/1/25	23:35	56.0		8/1/25	3:35	59.8	
7/1/25	19:40	52.5		7/1/25	23:40	55.8		8/1/25	3:40	59.7	
7/1/25	19:45	54.1		7/1/25	23:45	55.8		8/1/25	3:45	59.9	
7/1/25	19:50	53.7		7/1/25	23:50	55.8		8/1/25	3:50	59.7	
7/1/25	19:55	54.6		7/1/25	23:55	55.7		8/1/25	3:55	59.5	
7/1/25	20:00	53.8	52.9	7/1/25	0:00	56.5	56.4	8/1/25	4:00	59.0	59.7
7/1/25	20:05	54.1		8/1/25	0:05	56.8		8/1/25	4:05	58.9	
7/1/25	20:10	54.2		8/1/25	0:10	56.6		8/1/25	4:10	59.4	
7/1/25	20:15	54.8		8/1/25	0:15	56.8		8/1/25	4:15	56.3	
7/1/25	20:20	55.2		8/1/25	0:20	56.7		8/1/25	4:20	54.0	
7/1/25	20:25	54.7		8/1/25	0:25	57.1		8/1/25	4:25	53.7	
7/1/25	20:30	56.6		8/1/25	0:30	57.2		8/1/25	4:30	53.7	
7/1/25	20:35	56.8		8/1/25	0:35	57.1		8/1/25	4:35	54.1	
7/1/25	20:40	57.8		8/1/25	0:40	57.3		8/1/25	4:40	54.4	
7/1/25	20:45	59.2		8/1/25	0:45	57.7		8/1/25	4:45	54.4	
7/1/25	20:50	57.4		8/1/25	0:50	57.5		8/1/25	4:50	54.2	
7/1/25	20:55	56.8		8/1/25	0:55	57.3		8/1/25	4:55	54.4	
7/1/25	21:00	57.7	56.6	8/1/25	1:00	57.3	57.1	8/1/25	5:00	54.2	55.6
7/1/25	21:05	57.9		8/1/25	1:05	57.0		8/1/25	5:05	53.9	
7/1/25	21:10	57.9		8/1/25	1:10	57.1		8/1/25	5:10	53.8	
7/1/25	21:15	58.4		8/1/25	1:15	57.2		8/1/25	5:15	53.8	
7/1/25	21:20	57.9		8/1/25	1:20	57.3		8/1/25	5:20	54.3	
7/1/25	21:25	58.0		8/1/25	1:25	56.5		8/1/25	5:25	54.4	
7/1/25	21:30	58.1		8/1/25	1:30	56.1		8/1/25	5:30	54.5	
7/1/25	21:35	58.1		8/1/25	1:35	56.1		8/1/25	5:35	54.3	
7/1/25	21:40	58.0		8/1/25	1:40	56.2		8/1/25	5:40	53.8	
7/1/25	21:45	57.5		8/1/25	1:45	55.7		8/1/25	5:45	53.7	
7/1/25	21:50	57.9		8/1/25	1:50	55.8		8/1/25	5:50	53.6	
7/1/25	21:55	57.2		8/1/25	1:55	56.2		8/1/25	5:55	53.5	
7/1/25	22:00	57.4	57.9	8/1/25	2:00	55.9	56.5	8/1/25	6:00	53.3	53.9
7/1/25	22:05	57.6		8/1/25	2:05	55.8		8/1/25	6:05	53.3	
7/1/25	22:10	57.7		8/1/25	2:10	56.0		8/1/25	6:10	53.6	
7/1/25	22:15	58.0		8/1/25	2:15	56.0		8/1/25	6:15	53.7	
7/1/25	22:20	57.8		8/1/25	2:20	55.6		8/1/25	6:20	54.3	
7/1/25	22:25	57.4		8/1/25	2:25	59.1		8/1/25	6:25	55.2	
7/1/25	22:30	57.7		8/1/25	2:30	59.8		8/1/25	6:30	54.9	
7/1/25	22:35	57.5		8/1/25	2:35	60.0		8/1/25	6:35	55.0	
7/1/25	22:40	56.9		8/1/25	2:40	60.1		8/1/25	6:40	54.9	
7/1/25	22:45	57.9		8/1/25	2:45	60.2		8/1/25	6:45	55.4	
7/1/25	22:50	56.8		8/1/25	2:50	59.9		8/1/25	6:50	55.7	
7/1/25	22:55	56.5		8/1/25	2:55	59.9		8/1/25	6:55	60.0	
7/1/25	23:00	57.1	57.4	8/1/25	3:00	59.7	58.9	8/1/25	7:00	56.2	55.6

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd							
SITE LOCATION			NM10 EIA Gillman Barracks							
REPORT REFERENCE			04/01/2025 - 11/01/2025							
Start	8/1/25		7:05	Leq12h			54.4	Weighting		A
End	8/1/25		19:00							
Date	Time	Leq5m		Date	Time	Leq5m		Date	Time	Leq5m
8/1/25	7:05	56.6		8/1/25	11:05	59.5		8/1/25	15:05	55.0
8/1/25	7:10	55.1		8/1/25	11:10	51.8		8/1/25	15:10	56.6
8/1/25	7:15	55.3		8/1/25	11:15	55.7		8/1/25	15:15	51.1
8/1/25	7:20	54.5		8/1/25	11:20	51.5		8/1/25	15:20	51.0
8/1/25	7:25	54.4		8/1/25	11:25	50.6		8/1/25	15:25	51.7
8/1/25	7:30	53.9		8/1/25	11:30	52.2		8/1/25	15:30	53.4
8/1/25	7:35	54.9		8/1/25	11:35	51.6		8/1/25	15:35	49.7
8/1/25	7:40	54.4		8/1/25	11:40	50.3		8/1/25	15:40	50.5
8/1/25	7:45	55.4		8/1/25	11:45	50.8		8/1/25	15:45	48.6
8/1/25	7:50	59.6		8/1/25	11:50	51.0		8/1/25	15:50	53.5
8/1/25	7:55	58.5		8/1/25	11:55	51.2		8/1/25	15:55	66.6
8/1/25	8:00	54.4		8/1/25	12:00	54.8		8/1/25	16:00	57.4
8/1/25	8:05	54.4		8/1/25	12:05	56.7		8/1/25	16:05	54.1
8/1/25	8:10	54.6		8/1/25	12:10	53.8		8/1/25	16:10	56.4
8/1/25	8:15	54.2		8/1/25	12:15	51.1		8/1/25	16:15	50.7
8/1/25	8:20	53.9		8/1/25	12:20	50.7		8/1/25	16:20	52.0
8/1/25	8:25	55.1		8/1/25	12:25	50.7		8/1/25	16:25	53.4
8/1/25	8:30	54.9		8/1/25	12:30	50.9		8/1/25	16:30	50.7
8/1/25	8:35	54.3		8/1/25	12:35	52.9		8/1/25	16:35	51.4
8/1/25	8:40	54.9		8/1/25	12:40	53.0		8/1/25	16:40	57.1
8/1/25	8:45	54.6		8/1/25	12:45	51.7		8/1/25	16:45	50.0
8/1/25	8:50	54.7		8/1/25	12:50	50.5		8/1/25	16:50	51.0
8/1/25	8:55	54.1		8/1/25	12:55	51.5		8/1/25	16:55	60.1
8/1/25	9:00	54.2		8/1/25	13:00	50.5		8/1/25	17:00	50.2
8/1/25	9:05	54.7		8/1/25	13:05	51.8		8/1/25	17:05	50.2
8/1/25	9:10	53.8		8/1/25	13:10	49.4		8/1/25	17:10	50.5
8/1/25	9:15	54.0		8/1/25	13:15	49.6		8/1/25	17:15	50.2
8/1/25	9:20	53.7		8/1/25	13:20	49.6		8/1/25	17:20	51.2
8/1/25	9:25	53.6		8/1/25	13:25	49.3		8/1/25	17:25	52.8
8/1/25	9:30	52.5	8/1/25	13:30	48.6	8/1/25	17:30	53.4		
8/1/25	9:35	54.4	8/1/25	13:35	49.4	8/1/25	17:35	51.7		
8/1/25	9:40	52.0	8/1/25	13:40	49.7	8/1/25	17:40	52.7		
8/1/25	9:45	52.0	8/1/25	13:45	48.6	8/1/25	17:45	52.0		
8/1/25	9:50	52.6	8/1/25	13:50	49.1	8/1/25	17:50	52.1		
8/1/25	9:55	53.6	8/1/25	13:55	50.2	8/1/25	17:55	52.9		
8/1/25	10:00	52.5	8/1/25	14:00	55.9	8/1/25	18:00	52.6		
8/1/25	10:05	51.5	8/1/25	14:05	57.5	8/1/25	18:05	53.6		
8/1/25	10:10	55.6	8/1/25	14:10	54.8	8/1/25	18:10	52.6		
8/1/25	10:15	51.0	8/1/25	14:15	62.7	8/1/25	18:15	52.6		
8/1/25	10:20	50.0	8/1/25	14:20	49.2	8/1/25	18:20	52.5		
8/1/25	10:25	56.2	8/1/25	14:25	48.7	8/1/25	18:25	53.4		
8/1/25	10:30	51.4	8/1/25	14:30	48.9	8/1/25	18:30	53.2		
8/1/25	10:35	61.3	8/1/25	14:35	50.2	8/1/25	18:35	53.7		
8/1/25	10:40	50.5	8/1/25	14:40	50.6	8/1/25	18:40	53.6		
8/1/25	10:45	52.8	8/1/25	14:45	50.1	8/1/25	18:45	53.0		
8/1/25	10:50	58.3	8/1/25	14:50	51.4	8/1/25	18:50	52.1		
8/1/25	10:55	58.5	8/1/25	14:55	51.4	8/1/25	18:55	53.0		
8/1/25	11:00	51.7	8/1/25	15:00	50.4	8/1/25	19:00	52.6		

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM10 EIA Gillman Barracks							
REPORT REFERENCE				04/01/2025 - 11/01/2025							
Start	8/1/25	19:05		Leq12h	57.9			Weighting		A	
End	9/1/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
8/1/25	19:05	52.3	51.1	8/1/25	23:05	55.9	56.4	9/1/25	3:05	55.0	59.6
8/1/25	19:10	51.7		8/1/25	23:10	56.2		9/1/25	3:10	55.5	
8/1/25	19:15	50.6		8/1/25	23:15	56.2		9/1/25	3:15	57.7	
8/1/25	19:20	50.1		8/1/25	23:20	56.2		9/1/25	3:20	61.6	
8/1/25	19:25	50.3		8/1/25	23:25	56.1		9/1/25	3:25	62.0	
8/1/25	19:30	50.5		8/1/25	23:30	56.4		9/1/25	3:30	62.2	
8/1/25	19:35	49.6		8/1/25	23:35	56.4		9/1/25	3:35	62.2	
8/1/25	19:40	50.5		8/1/25	23:40	55.8		9/1/25	3:40	61.3	
8/1/25	19:45	51.5		8/1/25	23:45	56.9		9/1/25	3:45	56.2	
8/1/25	19:50	51.5		8/1/25	23:50	56.7		9/1/25	3:50	56.8	
8/1/25	19:55	51.4	55.9	8/1/25	23:55	56.9	56.6	9/1/25	3:55	57.1	61.2
8/1/25	20:00	51.9		8/1/25	0:00	56.7		9/1/25	4:00	56.9	
8/1/25	20:05	51.7		9/1/25	0:05	56.7		9/1/25	4:05	57.2	
8/1/25	20:10	52.8		9/1/25	0:10	56.4		9/1/25	4:10	61.3	
8/1/25	20:15	52.7		9/1/25	0:15	56.1		9/1/25	4:15	61.6	
8/1/25	20:20	52.8		9/1/25	0:20	56.2		9/1/25	4:20	61.7	
8/1/25	20:25	52.6		9/1/25	0:25	56.8		9/1/25	4:25	61.6	
8/1/25	20:30	53.9		9/1/25	0:30	56.8		9/1/25	4:30	61.4	
8/1/25	20:35	54.6		9/1/25	0:35	57.0		9/1/25	4:35	61.5	
8/1/25	20:40	53.9		9/1/25	0:40	56.5		9/1/25	4:40	61.4	
8/1/25	20:45	62.5	56.4	9/1/25	0:45	56.0	56.3	9/1/25	4:45	61.3	61.5
8/1/25	20:50	55.7		9/1/25	0:50	57.3		9/1/25	4:50	60.9	
8/1/25	20:55	55.7		9/1/25	0:55	56.8		9/1/25	4:55	61.5	
8/1/25	21:00	56.7		9/1/25	1:00	56.3		9/1/25	5:00	61.7	
8/1/25	21:05	56.0		9/1/25	1:05	56.2		9/1/25	5:05	61.6	
8/1/25	21:10	56.0		9/1/25	1:10	56.8		9/1/25	5:10	61.8	
8/1/25	21:15	56.2		9/1/25	1:15	56.7		9/1/25	5:15	61.8	
8/1/25	21:20	56.1		9/1/25	1:20	56.4		9/1/25	5:20	61.8	
8/1/25	21:25	56.7		9/1/25	1:25	56.1		9/1/25	5:25	61.8	
8/1/25	21:30	56.9		9/1/25	1:30	56.1		9/1/25	5:30	61.5	
8/1/25	21:35	57.0	56.1	9/1/25	1:35	56.1	56.8	9/1/25	5:35	61.5	58.2
8/1/25	21:40	56.6		9/1/25	1:40	56.1		9/1/25	5:40	61.5	
8/1/25	21:45	56.8		9/1/25	1:45	56.1		9/1/25	5:45	61.0	
8/1/25	21:50	56.4		9/1/25	1:50	55.9		9/1/25	5:50	61.0	
8/1/25	21:55	56.2		9/1/25	1:55	56.4		9/1/25	5:55	61.0	
8/1/25	22:00	56.2		9/1/25	2:00	56.4		9/1/25	6:00	61.1	
8/1/25	22:05	56.0		9/1/25	2:05	56.2		9/1/25	6:05	61.1	
8/1/25	22:10	56.0		9/1/25	2:10	56.6		9/1/25	6:10	61.0	
8/1/25	22:15	56.2		9/1/25	2:15	56.4		9/1/25	6:15	60.1	
8/1/25	22:20	56.3		9/1/25	2:20	56.2		9/1/25	6:20	53.7	
8/1/25	22:25	56.4	56.1	9/1/25	2:25	56.0	56.8	9/1/25	6:25	53.7	
8/1/25	22:30	56.5		9/1/25	2:30	56.1		9/1/25	6:30	53.7	
8/1/25	22:35	56.6		9/1/25	2:35	56.4		9/1/25	6:35	54.6	
8/1/25	22:40	56.3		9/1/25	2:40	56.2		9/1/25	6:40	55.9	
8/1/25	22:45	56.5		9/1/25	2:45	58.4		9/1/25	6:45	58.2	
8/1/25	22:50	55.6		9/1/25	2:50	59.9		9/1/25	6:50	57.2	
8/1/25	22:55	55.5		9/1/25	2:55	56.0		9/1/25	6:55	56.9	
8/1/25	23:00	55.7		9/1/25	3:00	55.5		9/1/25	7:00	61.4	

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd							
SITE LOCATION			NM10 EIA Gillman Barracks							
REPORT REFERENCE			04/01/2025 - 11/01/2025							
Start	9/1/25		7:05	Leq12h			51.7	Weighting		A
End	9/1/25		19:00							
Date	Time	Leq5m		Date	Time	Leq5m		Date	Time	Leq5m
9/1/25	7:05	55.4		9/1/25	11:05	55.4		9/1/25	15:05	49.1
9/1/25	7:10	54.5		9/1/25	11:10	51.7		9/1/25	15:10	48.5
9/1/25	7:15	54.6		9/1/25	11:15	50.5		9/1/25	15:15	49.6
9/1/25	7:20	53.8		9/1/25	11:20	49.9		9/1/25	15:20	49.3
9/1/25	7:25	53.9		9/1/25	11:25	50.4		9/1/25	15:25	48.1
9/1/25	7:30	55.6		9/1/25	11:30	50.9		9/1/25	15:30	48.8
9/1/25	7:35	54.6		9/1/25	11:35	49.5		9/1/25	15:35	50.2
9/1/25	7:40	54.0		9/1/25	11:40	49.8		9/1/25	15:40	49.0
9/1/25	7:45	54.3		9/1/25	11:45	49.1		9/1/25	15:45	49.2
9/1/25	7:50	54.0		9/1/25	11:50	48.9		9/1/25	15:50	49.9
9/1/25	7:55	54.1		9/1/25	11:55	49.7		9/1/25	15:55	49.2
9/1/25	8:00	53.9		9/1/25	12:00	49.4		9/1/25	16:00	48.4
9/1/25	8:05	53.9		9/1/25	12:05	49.4		9/1/25	16:05	49.8
9/1/25	8:10	53.9		9/1/25	12:10	49.2		9/1/25	16:10	49.4
9/1/25	8:15	54.2		9/1/25	12:15	49.1		9/1/25	16:15	48.9
9/1/25	8:20	54.0		9/1/25	12:20	48.4		9/1/25	16:20	48.9
9/1/25	8:25	54.0		9/1/25	12:25	48.7		9/1/25	16:25	49.5
9/1/25	8:30	54.1		9/1/25	12:30	49.1		9/1/25	16:30	50.5
9/1/25	8:35	55.0		9/1/25	12:35	49.0		9/1/25	16:35	51.7
9/1/25	8:40	54.5		9/1/25	12:40	48.7		9/1/25	16:40	49.0
9/1/25	8:45	54.1		9/1/25	12:45	49.4		9/1/25	16:45	50.0
9/1/25	8:50	54.2		9/1/25	12:50	49.3		9/1/25	16:50	49.2
9/1/25	8:55	54.1		9/1/25	12:55	49.0		9/1/25	16:55	49.3
9/1/25	9:00	55.3		9/1/25	13:00	49.5		9/1/25	17:00	48.6
9/1/25	9:05	53.6		9/1/25	13:05	50.4		9/1/25	17:05	49.8
9/1/25	9:10	53.2		9/1/25	13:10	50.8		9/1/25	17:10	50.2
9/1/25	9:15	52.5		9/1/25	13:15	50.6		9/1/25	17:15	49.7
9/1/25	9:20	52.1		9/1/25	13:20	51.4		9/1/25	17:20	50.1
9/1/25	9:25	51.6		9/1/25	13:25	51.6		9/1/25	17:25	49.8
9/1/25	9:30	52.5		9/1/25	13:30	51.8		9/1/25	17:30	52.0
9/1/25	9:35	52.8		9/1/25	13:35	49.8		9/1/25	17:35	50.8
9/1/25	9:40	52.7		9/1/25	13:40	50.0		9/1/25	17:40	51.0
9/1/25	9:45	53.8		9/1/25	13:45	47.8		9/1/25	17:45	51.8
9/1/25	9:50	51.8		9/1/25	13:50	49.8		9/1/25	17:50	51.1
9/1/25	9:55	52.5		9/1/25	13:55	50.7		9/1/25	17:55	50.7
9/1/25	10:00	51.9		9/1/25	14:00	50.1		9/1/25	18:00	51.4
9/1/25	10:05	53.2		9/1/25	14:05	51.1		9/1/25	18:05	51.4
9/1/25	10:10	51.3		9/1/25	14:10	49.8		9/1/25	18:10	51.6
9/1/25	10:15	52.6		9/1/25	14:15	49.4		9/1/25	18:15	51.1
9/1/25	10:20	55.6		9/1/25	14:20	48.8		9/1/25	18:20	54.7
9/1/25	10:25	51.6		9/1/25	14:25	49.6		9/1/25	18:25	51.9
9/1/25	10:30	51.9		9/1/25	14:30	49.4		9/1/25	18:30	54.9
9/1/25	10:35	51.5		9/1/25	14:35	49.2		9/1/25	18:35	54.2
9/1/25	10:40	51.5		9/1/25	14:40	48.7		9/1/25	18:40	51.9
9/1/25	10:45	51.0		9/1/25	14:45	48.3		9/1/25	18:45	51.3
9/1/25	10:50	50.9		9/1/25	14:50	49.4		9/1/25	18:50	51.7
9/1/25	10:55	51.3		9/1/25	14:55	49.5		9/1/25	18:55	51.3
9/1/25	11:00	53.6		9/1/25	15:00	48.6		9/1/25	19:00	51.5

NAME OF COMPANY				CH2M HILL Singapore Pte Ltd							
SITE LOCATION				NM10 EIA Gillman Barracks							
REPORT REFERENCE				04/01/2025 - 11/01/2025							
Start	9/1/25	19:05		Leq12h	56.3			Weighting		A	
End	10/1/25	7:00									
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
9/1/25	19:05	52.4		9/1/25	23:05	58.1		10/1/25	3:05	56.1	
9/1/25	19:10	51.1		9/1/25	23:10	57.6		10/1/25	3:10	56.3	
9/1/25	19:15	50.2		9/1/25	23:15	57.8		10/1/25	3:15	59.4	
9/1/25	19:20	56.5		9/1/25	23:20	57.9		10/1/25	3:20	61.7	
9/1/25	19:25	50.4		9/1/25	23:25	57.2		10/1/25	3:25	61.8	
9/1/25	19:30	50.2		9/1/25	23:30	56.7		10/1/25	3:30	55.5	
9/1/25	19:35	50.5		9/1/25	23:35	56.8		10/1/25	3:35	55.8	
9/1/25	19:40	51.8		9/1/25	23:40	56.8		10/1/25	3:40	55.9	
9/1/25	19:45	53.0		9/1/25	23:45	56.9		10/1/25	3:45	55.8	
9/1/25	19:50	53.5		9/1/25	23:50	56.9		10/1/25	3:50	55.2	
9/1/25	19:55	54.0		9/1/25	23:55	56.6		10/1/25	3:55	55.7	
9/1/25	20:00	52.0	52.6	9/1/25	0:00	56.8	57.2	10/1/25	4:00	55.5	57.8
9/1/25	20:05	51.8		10/1/25	0:05	57.3		10/1/25	4:05	55.4	
9/1/25	20:10	53.0		10/1/25	0:10	57.4		10/1/25	4:10	56.2	
9/1/25	20:15	53.7		10/1/25	0:15	57.0		10/1/25	4:15	55.9	
9/1/25	20:20	54.0		10/1/25	0:20	56.8		10/1/25	4:20	56.1	
9/1/25	20:25	54.0		10/1/25	0:25	56.5		10/1/25	4:25	55.0	
9/1/25	20:30	54.8		10/1/25	0:30	57.2		10/1/25	4:30	54.9	
9/1/25	20:35	54.9		10/1/25	0:35	56.5		10/1/25	4:35	55.7	
9/1/25	20:40	55.1		10/1/25	0:40	56.4		10/1/25	4:40	55.6	
9/1/25	20:45	56.0		10/1/25	0:45	57.0		10/1/25	4:45	55.7	
9/1/25	20:50	56.2		10/1/25	0:50	56.7		10/1/25	4:50	56.2	
9/1/25	20:55	56.7		10/1/25	0:55	57.0		10/1/25	4:55	56.5	
9/1/25	21:00	56.6	55.0	10/1/25	1:00	56.8	56.9	10/1/25	5:00	57.2	55.9
9/1/25	21:05	56.6		10/1/25	1:05	56.7		10/1/25	5:05	56.8	
9/1/25	21:10	56.4		10/1/25	1:10	56.5		10/1/25	5:10	56.5	
9/1/25	21:15	56.5		10/1/25	1:15	56.0		10/1/25	5:15	56.4	
9/1/25	21:20	56.8		10/1/25	1:20	56.4		10/1/25	5:20	55.6	
9/1/25	21:25	56.8		10/1/25	1:25	56.6		10/1/25	5:25	55.2	
9/1/25	21:30	57.4		10/1/25	1:30	56.1		10/1/25	5:30	55.2	
9/1/25	21:35	56.4		10/1/25	1:35	55.9		10/1/25	5:35	54.9	
9/1/25	21:40	56.8		10/1/25	1:40	55.7		10/1/25	5:40	54.7	
9/1/25	21:45	57.0		10/1/25	1:45	56.7		10/1/25	5:45	54.9	
9/1/25	21:50	56.8		10/1/25	1:50	56.4		10/1/25	5:50	54.8	
9/1/25	21:55	56.9		10/1/25	1:55	56.3		10/1/25	5:55	54.5	
9/1/25	22:00	57.0	56.8	10/1/25	2:00	56.4	56.3	10/1/25	6:00	54.8	55.4
9/1/25	22:05	57.2		10/1/25	2:05	56.3		10/1/25	6:05	54.9	
9/1/25	22:10	57.7		10/1/25	2:10	56.0		10/1/25	6:10	55.1	
9/1/25	22:15	57.7		10/1/25	2:15	56.4		10/1/25	6:15	55.2	
9/1/25	22:20	57.7		10/1/25	2:20	56.7		10/1/25	6:20	54.8	
9/1/25	22:25	57.8		10/1/25	2:25	55.8		10/1/25	6:25	54.9	
9/1/25	22:30	57.6		10/1/25	2:30	55.9		10/1/25	6:30	54.4	
9/1/25	22:35	58.0		10/1/25	2:35	56.5		10/1/25	6:35	54.1	
9/1/25	22:40	58.1		10/1/25	2:40	56.6		10/1/25	6:40	54.4	
9/1/25	22:45	58.1		10/1/25	2:45	56.7		10/1/25	6:45	54.0	
9/1/25	22:50	57.8		10/1/25	2:50	57.0		10/1/25	6:50	54.1	
9/1/25	22:55	57.9		10/1/25	2:55	56.4		10/1/25	6:55	54.1	
9/1/25	23:00	58.3	57.8	10/1/25	3:00	56.2	56.4	10/1/25	7:00	57.6	54.9

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM10 EIA Gillman Barracks								
REPORT REFERENCE			04/01/2025 - 11/01/2025								
Start	10/1/25	7:05	Leq12h			59.2	Weighting			A	
End	10/1/25	19:00									
Date	Time	Leq5m	Date	Time	Leq5m	Date	Time	Leq5m			
10/1/25	7:05	58.9	10/1/25	11:05	61.4	10/1/25	15:05	60.1			
10/1/25	7:10	54.8	10/1/25	11:10	60.5	10/1/25	15:10	60.3			
10/1/25	7:15	54.0	10/1/25	11:15	61.1	10/1/25	15:15	59.5			
10/1/25	7:20	53.7	10/1/25	11:20	62.0	10/1/25	15:20	57.9			
10/1/25	7:25	53.5	10/1/25	11:25	61.7	10/1/25	15:25	58.9			
10/1/25	7:30	53.1	10/1/25	11:30	59.5	10/1/25	15:30	61.3			
10/1/25	7:35	52.7	10/1/25	11:35	57.9	10/1/25	15:35	57.3			
10/1/25	7:40	52.6	10/1/25	11:40	58.3	10/1/25	15:40	55.2			
10/1/25	7:45	52.6	10/1/25	11:45	60.3	10/1/25	15:45	56.6			
10/1/25	7:50	53.5	10/1/25	11:50	60.6	10/1/25	15:50	54.3			
10/1/25	7:55	52.2	10/1/25	11:55	58.0	10/1/25	15:55	56.1			
10/1/25	8:00	52.1	10/1/25	12:00	60.3	10/1/25	16:00	57.3			
10/1/25	8:05	52.1	10/1/25	12:05	61.2	10/1/25	16:05	54.5			
10/1/25	8:10	52.4	10/1/25	12:10	60.9	10/1/25	16:10	56.4			
10/1/25	8:15	52.5	10/1/25	12:15	57.1	10/1/25	16:15	54.5			
10/1/25	8:20	59.3	10/1/25	12:20	59.0	10/1/25	16:20	54.6			
10/1/25	8:25	52.1	10/1/25	12:25	58.9	10/1/25	16:25	52.9			
10/1/25	8:30	51.1	10/1/25	12:30	60.7	10/1/25	16:30	57.5			
10/1/25	8:35	51.4	10/1/25	12:35	61.3	10/1/25	16:35	58.0			
10/1/25	8:40	51.3	10/1/25	12:40	61.4	10/1/25	16:40	63.2			
10/1/25	8:45	51.1	10/1/25	12:45	61.5	10/1/25	16:45	63.3			
10/1/25	8:50	51.6	10/1/25	12:50	61.4	10/1/25	16:50	63.4			
10/1/25	8:55	51.9	10/1/25	12:55	59.0	10/1/25	16:55	63.8			
10/1/25	9:00	52.7	10/1/25	13:00	57.9	10/1/25	17:00	64.5			
10/1/25	9:05	52.9	10/1/25	13:05	56.6	10/1/25	17:05	63.1			
10/1/25	9:10	52.7	10/1/25	13:10	59.2	10/1/25	17:10	64.0			
10/1/25	9:15	52.3	10/1/25	13:15	57.9	10/1/25	17:15	61.1			
10/1/25	9:20	52.4	10/1/25	13:20	57.9	10/1/25	17:20	59.5			
10/1/25	9:25	51.4	10/1/25	13:25	60.5	10/1/25	17:25	57.2			
10/1/25	9:30	50.7	10/1/25	13:30	57.9	10/1/25	17:30	58.4			
10/1/25	9:35	51.1	10/1/25	13:35	54.6	10/1/25	17:35	58.5			
10/1/25	9:40	51.8	10/1/25	13:40	55.7	10/1/25	17:40	58.4			
10/1/25	9:45	51.5	10/1/25	13:45	58.5	10/1/25	17:45	61.4			
10/1/25	9:50	51.7	10/1/25	13:50	58.4	10/1/25	17:50	64.6			
10/1/25	9:55	50.2	10/1/25	13:55	57.7	10/1/25	17:55	68.0			
10/1/25	10:00	50.6	10/1/25	14:00	57.8	10/1/25	18:00	66.8			
10/1/25	10:05	49.7	10/1/25	14:05	58.7	10/1/25	18:05	65.7			
10/1/25	10:10	49.7	10/1/25	14:10	57.4	10/1/25	18:10	63.3			
10/1/25	10:15	49.9	10/1/25	14:15	56.6	10/1/25	18:15	63.3			
10/1/25	10:20	51.5	10/1/25	14:20	58.0	10/1/25	18:20	60.2			
10/1/25	10:25	51.8	10/1/25	14:25	57.5	10/1/25	18:25	59.5			
10/1/25	10:30	55.7	10/1/25	14:30	58.9	10/1/25	18:30	60.4			
10/1/25	10:35	57.7	10/1/25	14:35	58.7	10/1/25	18:35	62.0			
10/1/25	10:40	56.0	10/1/25	14:40	60.5	10/1/25	18:40	58.8			
10/1/25	10:45	57.4	10/1/25	14:45	58.2	10/1/25	18:45	55.9			
10/1/25	10:50	58.4	10/1/25	14:50	60.3	10/1/25	18:50	59.7			
10/1/25	10:55	59.8	10/1/25	14:55	59.6	10/1/25	18:55	58.5			
10/1/25	11:00	60.6	10/1/25	15:00	59.7	10/1/25	19:00	58.2			

NAME OF COMPANY			CH2M HILL Singapore Pte Ltd								
SITE LOCATION			NM10 EIA Gillman Barracks								
REPORT REFERENCE			04/01/2025 - 11/01/2025								
Start	10/1/25		19:05	Leq12h				61.6	Weighting		A
End	11/1/25		7:00								
Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h	Date	Time	Leq5m	Leq1h
10/1/25	19:05	60.5	64.6	10/1/25	23:05	61.6	59.2	11/1/25	3:05	55.3	62.4
10/1/25	19:10	62.3		10/1/25	23:10	60.3		11/1/25	3:10	55.4	
10/1/25	19:15	64.2		10/1/25	23:15	59.1		11/1/25	3:15	56.4	
10/1/25	19:20	65.1		10/1/25	23:20	59.4		11/1/25	3:20	54.7	
10/1/25	19:25	62.6		10/1/25	23:25	59.7		11/1/25	3:25	55.2	
10/1/25	19:30	62.5		10/1/25	23:30	60.2		11/1/25	3:30	62.1	
10/1/25	19:35	67.8		10/1/25	23:35	58.1		11/1/25	3:35	62.1	
10/1/25	19:40	66.2		10/1/25	23:40	57.7		11/1/25	3:40	61.7	
10/1/25	19:45	66.6		10/1/25	23:45	56.9		11/1/25	3:45	65.7	
10/1/25	19:50	62.0		10/1/25	23:50	57.7		11/1/25	3:50	65.8	
10/1/25	19:55	63.4	62.4	10/1/25	23:55	57.3	58.5	11/1/25	3:55	66.6	57.8
10/1/25	20:00	66.0		10/1/25	0:00	59.9		11/1/25	4:00	63.4	
10/1/25	20:05	67.9		11/1/25	0:05	59.8		11/1/25	4:05	59.6	
10/1/25	20:10	66.2		11/1/25	0:10	57.8		11/1/25	4:10	57.6	
10/1/25	20:15	63.0		11/1/25	0:15	58.9		11/1/25	4:15	57.4	
10/1/25	20:20	60.8		11/1/25	0:20	58.6		11/1/25	4:20	57.4	
10/1/25	20:25	60.0		11/1/25	0:25	57.0		11/1/25	4:25	53.7	
10/1/25	20:30	57.7		11/1/25	0:30	56.8		11/1/25	4:30	58.8	
10/1/25	20:35	58.0		11/1/25	0:35	58.3		11/1/25	4:35	61.3	
10/1/25	20:40	61.0		11/1/25	0:40	57.0		11/1/25	4:40	55.5	
10/1/25	20:45	60.3	61.9	11/1/25	0:45	55.9	62.9	11/1/25	4:45	54.2	58.5
10/1/25	20:50	59.2		11/1/25	0:50	56.2		11/1/25	4:50	54.8	
10/1/25	20:55	60.7		11/1/25	0:55	59.8		11/1/25	4:55	59.4	
10/1/25	21:00	59.7		11/1/25	1:00	62.0		11/1/25	5:00	57.6	
10/1/25	21:05	67.2		11/1/25	1:05	65.5		11/1/25	5:05	59.4	
10/1/25	21:10	60.2		11/1/25	1:10	60.6		11/1/25	5:10	60.1	
10/1/25	21:15	58.1		11/1/25	1:15	58.3		11/1/25	5:15	55.4	
10/1/25	21:20	63.0		11/1/25	1:20	55.8		11/1/25	5:20	56.9	
10/1/25	21:25	65.7		11/1/25	1:25	54.4		11/1/25	5:25	58.0	
10/1/25	21:30	60.6		11/1/25	1:30	55.8		11/1/25	5:30	56.0	
10/1/25	21:35	60.0	63.4	11/1/25	1:35	55.7	61.6	11/1/25	5:35	52.8	59.5
10/1/25	21:40	58.6		11/1/25	1:40	56.5		11/1/25	5:40	55.2	
10/1/25	21:45	57.4		11/1/25	1:45	64.2		11/1/25	5:45	56.8	
10/1/25	21:50	57.3		11/1/25	1:50	68.1		11/1/25	5:50	63.3	
10/1/25	21:55	58.6		11/1/25	1:55	64.8		11/1/25	5:55	60.8	
10/1/25	22:00	60.3		11/1/25	2:00	65.8		11/1/25	6:00	56.0	
10/1/25	22:05	60.1		11/1/25	2:05	65.1		11/1/25	6:05	60.4	
10/1/25	22:10	58.4		11/1/25	2:10	59.5		11/1/25	6:10	63.2	
10/1/25	22:15	65.2		11/1/25	2:15	55.0		11/1/25	6:15	61.7	
10/1/25	22:20	62.3		11/1/25	2:20	59.6		11/1/25	6:20	60.0	
10/1/25	22:25	60.3	63.4	11/1/25	2:25	58.6	61.6	11/1/25	6:25	57.7	59.5
10/1/25	22:30	59.5		11/1/25	2:30	65.5		11/1/25	6:30	56.4	
10/1/25	22:35	60.2		11/1/25	2:35	62.2		11/1/25	6:35	56.0	
10/1/25	22:40	61.2		11/1/25	2:40	65.0		11/1/25	6:40	56.3	
10/1/25	22:45	61.4		11/1/25	2:45	62.6		11/1/25	6:45	56.6	
10/1/25	22:50	62.0		11/1/25	2:50	56.0		11/1/25	6:50	60.5	
10/1/25	22:55	69.8		11/1/25	2:55	55.7		11/1/25	6:55	60.3	
10/1/25	23:00	64.1		11/1/25	3:00	55.9		11/1/25	7:00	57.3	

Appendix 7B: Construction Phases and PME Noise Inventory



Scenario	Construction Phase	Main Construction Activity	Construction Activities	Equipment	Quantity	Total SWL (dBA)	% On time		DAY - LAeq(12hrs) 7:00am - 7:00pm		DAY - LAeq(5mins) 7:00am - 7:00pm			
							LAeq 12hrs - Day	LAeq 5mins - Day	PWL, dB(A) - per total quantity	PWL, dB(A) - per total quantity & duration	PWL, dB(A) - per total quantity	PWL, dB(A) - per total quantity & duration		
Scenario 1: Demolition Works	Demolition Works - Parcel A	Tree protection zone and perimeter hoarding	Erection of tree protection zone (if any) and perimeter hoarding	Excavator	1	118	80	100	118	117	118	118		
				Nail gun	1	101	80	100	101	100	101	101		
		Site preparation	Entrance and access road	Excavator	1	118	80	100	118	117	118	118		
				Dozer	1	110	80	100	110	109	110	110		
			Roller	1	104	80	100	104	103	104	104			
			Site office	Excavator	1	118	80	100	118	117	118	118		
				Mobile crane	1	98	80	100	98	97	98	98		
				Welding	1	96	80	100	96	95	96	96		
				Generator	1	119	80	100	119	118	119	119		
			Installation of ECM facilities	Excavator	1	118	80	100	118	117	118	118		
				Concrete discharging and pumping	1	107	80	100	107	106	107	107		
			Installation of mitigation measures (if any)	Mobile crane	1	98	80	100	98	97	98	98		
		Nail gun		1	101	80	100	101	100	101	101			
		Demolition works		Building structure & foundation demolition	Excavator	11	118	67	100	128	126	128	128	
					Loader	2	118	67	100	121	119	121	121	
			Scissor lift		2	106	50	100	109	106	109	109		
			Generator		4	119	67	100	125	124	125	125		
			Air compressor		1	107	17	100	107	99	107	107		
			Gas cutter		2	94	33	100	97	92	97	97		
		Debris transportation	Debris transportation	Excavator	1	118	80	100	119	118	119	119		
		General works	Machinery maintenance	Welding	1	96	8	100	96	85	96	96		
				Electric drill	1	94	8	100	94	83	94	94		
			Construction materials delivery	Dump truck	1	114	80	100	115	114	115	115		
			Waste management storage and handling	Dump truck	1	114	80	100	114	113	114	114		
			Electricity supply	Generator	1	119	100	100	120	120	120	120		
		Services diversion	Services diversion	Excavator	1	118	80	100	118	117	118	118		
				Air compressor	1	107	17	100	107	99	107	107		
				Dump truck	1	114	80	100	114	113	114	114		
				Saw	1	109	80	101	109	108	109	109		
				Loader	1	118	67	100	118	116	118	118		
				Pump	1	108	80	100	108	107	108	108		
										131		133		
		Scenario 1: Demolition Works	Demolition Works - Parcel B	Tree protection zone and perimeter hoarding	Erection of tree protection zone (if any) and perimeter hoarding	Excavator	3	118	80	100	123	122	123	123
						Nail gun	3	101	80	100	106	105	106	106
				Site preparation	Entrance and access road	Excavator	2	118	80	100	120	119	120	120
						Dozer	2	110	80	100	112	111	112	112
					Roller	2	104	80	100	106	105	106	106	
					Site office	Excavator	2	118	80	100	120	119	120	120
						Mobile crane	2	98	80	100	100	99	100	100
						Welding	2	96	80	100	98	97	98	98
Generator	2					119	80	100	121	120	121	121		
Installation of ECM facilities	Excavator				3	118	80	100	123	122	123	123		
	Concrete discharging and pumping				3	107	80	100	112	111	112	112		
Installation of mitigation measures (if any)	Mobile crane				2	98	80	100	100	99	100	100		
	Nail gun			2	101	80	100	103	102	103	103			
	Demolition works			Building structure & foundation demolition	Excavator	55	118	67	100	135	134	135	135	
					Loader	11	118	67	100	128	127	128	128	
Scissor lift					11	106	50	100	116	113	116	116		
Generator					22	119	67	100	132	131	132	132		
Air compressor					6	107	17	100	114	107	114	114		
Gas cutter					11	94	33	100	104	100	104	104		
Debris transportation	Debris transportation			Excavator	6	118	80	100	126	125	126	126		
General works	Machinery maintenance			Welding	2	96	8	100	98	87	98	98		
				Electric drill	2	94	8	100	96	85	96	96		
	Construction materials delivery			Dump truck	6	114	80	100	122	121	122	122		
	Waste management storage and handling			Dump truck	2	114	80	100	116	115	116	116		
	Electricity supply			Generator	6	119	100	100	127	127	127	127		
	Services diversion			Services diversion	Excavator	3	118	80	100	122	121	122	122	
					Air compressor	1	107	17	100	108	100	108	108	
Dump truck					3	114	80	100	118	117	118	118		
Saw					1	109	80	101	110	109	110	110		
Loader					3	118	67	100	122	120	122	122		
Pump	1			108	80	100	109	108	109	109				
									138		139			

Scenario	Construction Phase	Main Construction Activity	Construction Activities	Equipment	Quantity	Total SWL (dBA)	% On time		DAY - LAeq(12hrs) 7:00am - 7:00pm		DAY - LAeq(5mins) 7:00am - 7:00pm			
							LAeq 12hrs - Day	LAeq 5mins - Day	PWL, dB(A) - per total quantity	PWL, dB(A) - per total quantity & duration	PWL, dB(A) - per total quantity	PWL, dB(A) - per total quantity & duration		
Scenario 2: Pre-construction Works	Pre-construction Works - Parcel C	Perimeter hoarding & Tree protection zone (TPZ)	Erection of perimeter hoarding and TPZ (if any)	Excavator	1	118	80	100	118	117	118	118		
				Nail gun	1	101	80	100	101	100	101	101		
			Lorry crane	1	120	80	100	121	120	121	121			
		Vegetation & debris transportation	Excavator	1	118	80	100	119	118	119	119			
		Dozer	1	110	80	100	110	109	110	110				
		Roller	1	104	80	100	104	103	104	104				
		Site office	Excavator	1	118	80	100	118	117	118	118			
			Mobile crane	1	98	80	100	98	97	98	98			
			Welding	1	96	80	100	96	95	96	96			
			Generator	1	119	80	100	119	118	119	119			
		Installation of ECM facilities	Excavator	1	118	80	100	118	117	118	118			
			Concrete discharging and pumping	1	107	80	100	107	106	107	107			
		Installation of mitigation measures (if any)	Mobile crane	1	98	80	100	98	97	98	98			
			Nail gun	1	101	80	100	101	100	101	101			
		Pump	1	108	80	100	109	108	109	109				
		Generator	1	119	80	100	120	119	120	120				
		Generator	1	119	80	100	119	118	119	119				
		Dump truck	1	114	80	100	114	113	114	114				
		Electric drill	1	94	8	100	94	83	94	94				
		Construction materials delivery	Dump truck	1	114	80	100	115	114	115	115			
		Waste management storage and handling	Dump truck	1	114	80	100	114	113	114	114			
		Electricity supply	Generator	1	119	100	100	120	120	120	120			
												131		132
		Scenario 2: Pre-construction Works	Pre-construction Works - Parcel D	Perimeter hoarding & Tree protection zone (TPZ)	Erection of perimeter hoarding and TPZ (if any)	Excavator	5	118	80	100	125	124	125	125
						Nail gun	5	101	80	100	108	107	108	108
Lorry crane	10				120	80	100	130	129	130	130			
Vegetation & debris transportation	Excavator			10	118	80	100	128	127	128	128			
Dozer	2			110	80	100	114	113	114	114				
Roller	2			104	80	100	108	107	108	108				
Site office	Excavator			2	118	80	100	122	121	122	122			
	Mobile crane			2	98	80	100	102	101	102	102			
	Welding			2	96	80	100	100	99	100	100			
	Generator			2	119	80	100	123	122	123	123			
Installation of ECM facilities	Excavator			5	118	80	100	125	124	125	125			
	Concrete discharging and pumping			5	107	80	100	114	113	114	114			
Installation of mitigation measures (if any)	Mobile crane			2	98	80	100	102	101	102	102			
	Nail gun			2	101	80	100	105	104	105	105			
Pump	10			108	80	100	118	117	118	118				
Generator	10			119	80	100	129	128	129	129				
Generator	1			119	80	100	119	118	119	119				
Dump truck	1			114	80	100	116	115	116	116				
Electric drill	2			94	8	100	98	87	98	98				
Construction materials delivery	Dump truck			10	114	80	100	124	123	124	124			
Waste management storage and handling	Dump truck			2	114	80	100	118	117	118	118			
Electricity supply	Generator			10	119	100	100	129	129	129	129			
										139		139		

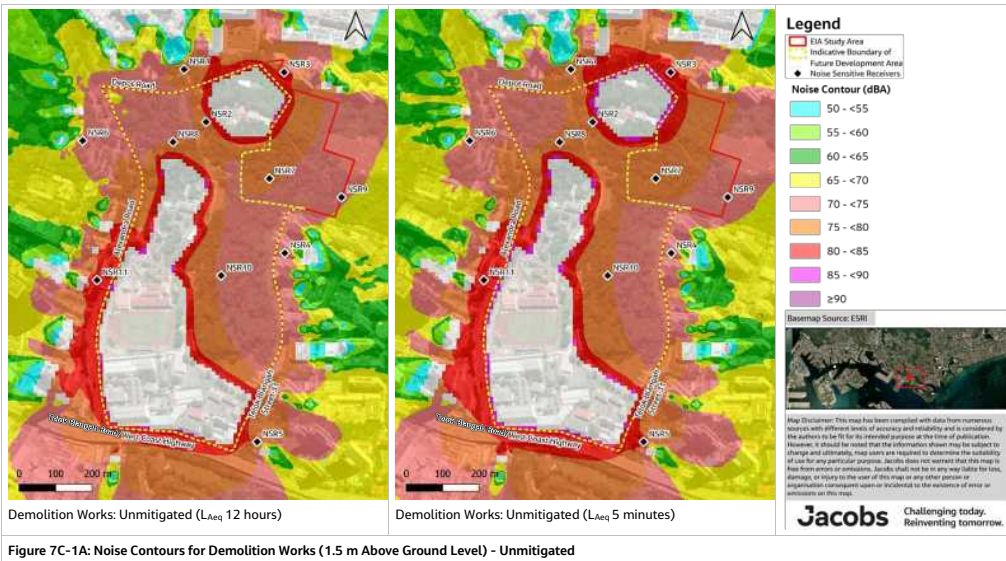
Scenario	Construction Phase	Main Construction Activity	Construction Activities	Equipment	Quantity	Total SWL (dBA)	% On time		DAY - LAeq(12hrs) 7:00am - 7:00pm		DAY - LAeq(5mins) 7:00am - 7:00pm			
							LAeq 12hrs - Day	LAeq 5mins - Day	PWL, dB(A) - per total quantity	PWL, dB(A) - per total quantity & duration	PWL, dB(A) - per total quantity	PWL, dB(A) - per total quantity & duration		
Scenario 3b: Infrastructure Works	Infrastructure Works - Parcel E	Road works layering	Layering e.g. spreading, rolling, compaction, paving	Excavator	1	118	80	100	119	118	119	119		
				Dozer	1	110	80	100	111	110	111	111		
				Roller	1	104	80	100	105	104	105	105		
				Asphalt paver	1	119	80	100	120	119	120	120		
				Generator	1	119	80	100	120	119	120	120		
		Excavation works	Excavation	Excavator	1	118	80	100	119	118	119	119		
				Drainage and sewerage work	Concreting	Concrete discharging and pump	1	107	80	100	108	107	108	108
		Poker vibrator	1			112	80	100	113	112	113	113		
		Generator	1			119	80	100	120	119	120	120		
		Excavation	Excavator			1	118	80	100	119	118	119	119	
		Pipe installation	Crawler crane			1	115	80	100	116	115	116	116	
		Mechanical and electrical works	Excavation	Excavator	Generator	1	119	80	100	120	119	120	120	
					Utilities installation	Lorry crane	1	120	80	100	121	120	121	121
					Road facilities works	Road-related facilities works (i.e. bus shelter, pedestrian crossing, zebra crossing, covered linkways. Pedestrian overhead bridge etc.)	Excavator	1	118	80	100	118	117	118
		Dump truck	1	114			80	100	114	113	114	114		
		Transit mixer	1	116			80	100	116	115	116	116		
		Mobile crane	1	98			80	100	98	97	98	98		
		Roller	1	104			80	100	104	103	104	104		
		Generator	1	119			80	100	119	118	119	119		
		Welding	1	96			8	100	96	85	96	96		
		General works	Machinery maintenance	Welding			1	96	8	100	96	85	96	96
				Electric drill			1	94	8	100	94	83	94	94
				Construction materials delivery	Dump truck	2	114	80	100	118	117	118	118	
					Transit mixer	2	116	80	100	120	119	120	120	
		Waste management storage and handling	Dump truck	2	114	80	100	118	117	118	118			
			Electricity supply	Generator	1	119	100	100	120	120	120	120		
		Turfing & landscaping	Turfing & landscaping works	Excavator	1	118	80	100	118	117	118	118		
				Dump truck	1	114	80	100	114	113	114	114		
				Roller	1	104	80	100	104	103	104	104		
												131	132	
		Scenario 3b: Infrastructure Works	Infrastructure Works - Parcel F	Road works layering	Layering e.g. spreading, rolling, compaction, paving	Excavator	10	118	80	100	128	127	128	128
						Dozer	10	110	80	100	120	119	120	120
						Roller	10	104	80	100	114	113	114	114
						Asphalt paver	10	119	80	100	129	128	129	129
						Generator	10	119	80	100	129	128	129	129
				Excavation works	Excavation	Excavator	10	118	80	100	128	127	128	128
Drainage and sewerage work	Concreting					Concrete discharging and pump	10	107	80	100	117	116	117	117
				Poker vibrator	10	112	80	100	122	121	122	122		
				Generator	10	119	80	100	129	128	129	129		
				Excavation	Excavator	10	118	80	100	128	127	128	128	
				Pipe installation	Crawler crane	10	115	80	100	125	124	125	125	
Mechanical and electrical works	Excavation			Excavator	Generator	10	119	80	100	129	128	129	129	
					Utilities installation	Lorry crane	10	120	80	100	130	129	130	130
					Road facilities works	Road-related facilities works (i.e. bus shelter, pedestrian crossing, zebra crossing, covered linkways. Pedestrian overhead bridge etc.)	Excavator	2	118	80	100	121	120	121
Dump truck	3			114			80	100	119	118	119	119		
Transit mixer	1			116			80	100	117	116	117	117		
Mobile crane	1			98			80	100	99	98	99	99		
Roller	1			104			80	100	105	104	105	105		
Generator	1			119			80	100	120	119	120	120		
Welding	2			96			8	100	99	88	99	99		
General works	Machinery maintenance			Welding			2	96	8	100	100	89	100	100
				Electric drill			2	94	8	100	98	87	98	98
				Construction materials delivery	Dump truck	19	114	80	100	127	126	127	127	
					Transit mixer	19	116	80	100	129	128	129	129	
Waste management storage and handling	Dump truck			19	114	80	100	127	126	127	127			
	Electricity supply			Generator	10	119	100	100	129	129	129	129		
Turfing & landscaping	Turfing & landscaping works			Excavator	1	118	80	100	119	118	119	119		
				Dump truck	1	114	80	100	115	114	115	115		
				Roller	1	104	80	100	105	104	105	105		
										139	140			

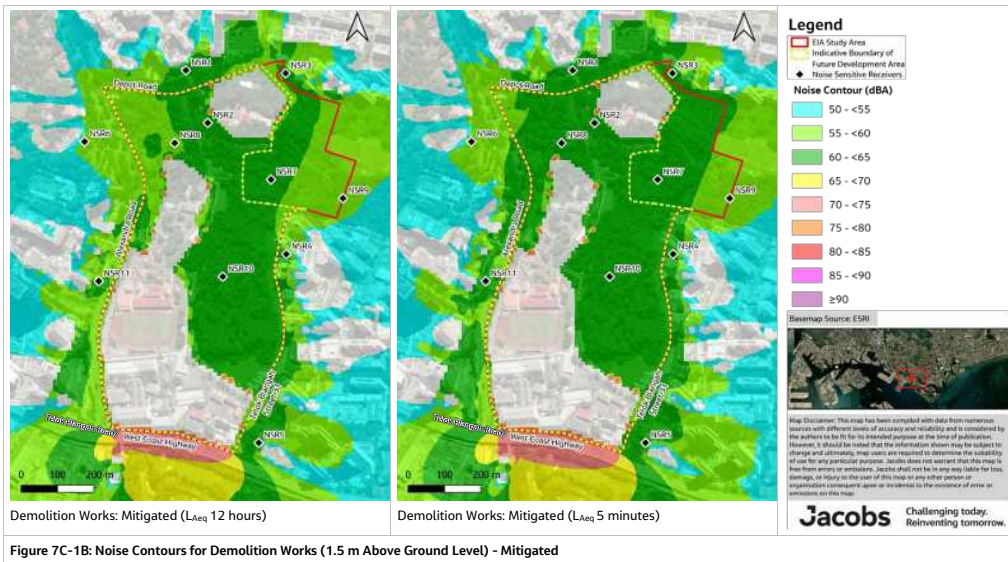
Scenario	Construction Phase	Main Construction Activity	Construction Activities	Equipment	Quantity	Total SWL (dBA)	% On time		DAY - LAeq(12hrs) 7:00am - 7:00pm		DAY - LAeq(5mins) 7:00am - 7:00pm		
							LAeq 12hrs - Day	LAeq 5mins - Day	PWL, dB(A) - per total quantity	PWL, dB(A) - per total quantity & duration	PWL, dB(A) - per total quantity	PWL, dB(A) - per total quantity & duration	
Scenario 4: Building Works	Building Works - Parcel G	Bottom up construction - substructure	Building foundation works	Pre-cast concrete piling	1	128	80	100	129	128	129	129	
				Welding	1	96	80	100	97	96	97	97	
				Gas cutter	1	94	80	100	95	94	95	95	
				Excavator	1	118	80	100	119	118	119	119	
				Bored piling	1	124	80	100	125	124	125	125	
				Concrete discharging and pumping	1	107	80	100	108	107	108	108	
				Poker vibrator	1	112	80	100	113	112	113	113	
				Crawler crane	1	115	80	100	116	115	116	116	
			Base slab casting	Concrete discharging and pumping	2	107	80	100	111	110	111	111	
				Poker vibrator	2	112	80	100	116	115	116	116	
			Bottom up construction - superstructure	Prefabrication and structure installation	Tower crane	2	108	80	100	112	111	112	112
					Welding	2	96	80	100	100	99	100	100
					Gas cutter	2	94	80	100	98	97	98	98
					Grinding	2	106	80	100	110	109	110	110
		Architectural works	Architectural works e.g. window, painting, door, railing, etc	Welding	2	96	80	100	100	99	100	100	
				Grinding	2	106	80	100	110	109	110	110	
				Nail gun	2	101	80	100	105	104	105	105	
				Boom lift	2	105	80	100	109	108	109	109	
		Pavement construction works	Pavement construction works	Excavator	2	118	80	100	122	121	122	122	
				Concrete discharging and pumping	2	107	80	100	111	110	111	111	
		General works	Machinery maintenance	Welding	1	96	8	100	96	85	96	96	
				Electric drill	1	94	8	100	94	83	94	94	
			Construction materials delivery	Dump truck	2	114	80	100	118	117	118	118	
				Transit mixer	4	116	80	100	121	120	121	121	
			Waste management storage and handling	Dump truck	2	114	80	100	118	117	118	118	
				Electricity supply	2	119	100	100	123	123	123	123	
												132	133
		Scenario 4: Building Works	Building Works - Parcel H	Bottom up construction - substructure	Building foundation works	Pre-cast concrete piling	1	128	80	100	128	127	128
Welding	1					96	80	100	96	95	96	96	
Gas cutter	1					94	80	100	94	93	94	94	
Excavator	1					118	80	100	118	117	118	118	
Bored piling	1					124	80	100	124	123	124	124	
Concrete discharging and pumping	1					107	80	100	107	106	107	107	
Poker vibrator	1					112	80	100	112	111	112	112	
Crawler crane	1					115	80	100	115	114	115	115	
Base slab casting	Concrete discharging and pumping				1	107	80	100	107	106	107	107	
	Poker vibrator				1	112	80	100	112	111	112	112	
Bottom up construction - superstructure	Prefabrication and structure installation				Tower crane	1	108	80	100	108	107	108	108
					Welding	1	96	80	100	96	95	96	96
					Gas cutter	1	94	80	100	94	93	94	94
					Grinding	1	106	80	100	106	105	106	106
Architectural works	Architectural works e.g. window, painting, door, railing, etc			Welding	1	96	80	100	96	95	96	96	
				Grinding	1	106	80	100	106	105	106	106	
				Nail gun	1	101	80	100	101	100	101	101	
				Boom lift	1	105	80	100	105	104	105	105	
Pavement construction works	Pavement construction works			Excavator	1	118	80	100	118	117	118	118	
				Concrete discharging and pumping	1	107	80	100	107	106	107	107	
General works	Machinery maintenance			Welding	1	96	8	100	96	85	96	96	
				Electric drill	1	94	8	100	94	83	94	94	
	Construction materials delivery			Dump truck	1	114	80	100	114	113	114	114	
				Transit mixer	1	116	80	100	117	116	117	117	
	Waste management storage and handling			Dump truck	1	114	80	100	114	113	114	114	
				Electricity supply	1	119	100	100	119	119	119	119	
										130	131		

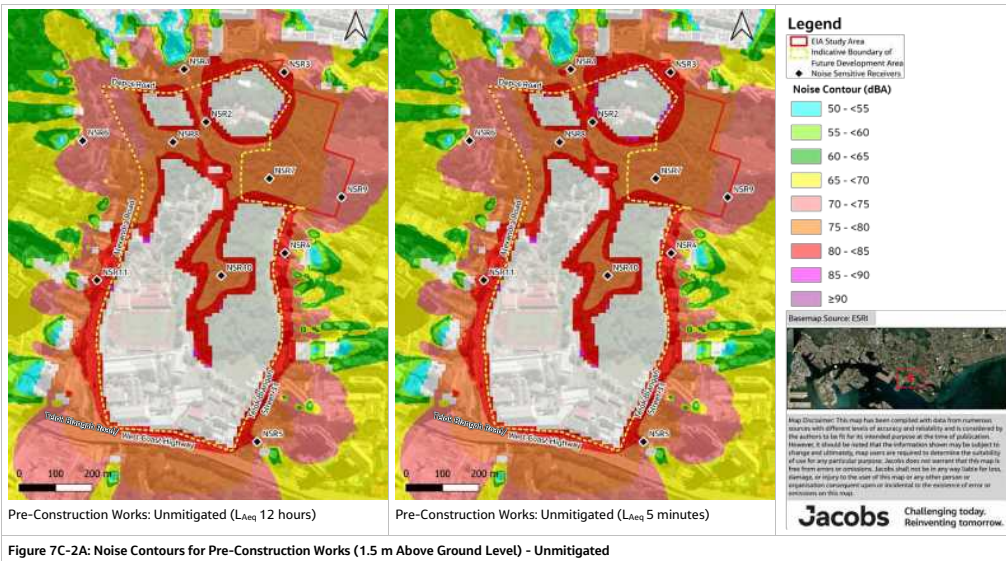
Scenario	Construction Phase	Main Construction Activity	Construction Activities	Equipment	Quantity	Total SWL (dBA)	% On time		DAY - LAeq(12hrs) 7:00am - 7:00pm		DAY - LAeq(5mins) 7:00am - 7:00pm		
							LAeq 12hrs - Day	LAeq 5mins - Day	PWL, dB(A) - per total quantity	PWL, dB(A) - per total quantity & duration	PWL, dB(A) - per total quantity	PWL, dB(A) - per total quantity & duration	
Scenario 4: Building Works	Building Works - Parcel I	Bottom up construction - substructure	Building foundation works	Pre-cast concrete piling	8	128	80	100	137	136	137	137	
				Welding	8	96	80	100	105	104	105	105	
				Gas cutter	8	94	80	100	103	102	103	103	
				Excavator	8	118	80	100	127	126	127	127	
				Bored piling	8	124	80	100	133	132	133	133	
				Concrete discharging and pumping	8	107	80	100	116	115	116	116	
				Poker vibrator	8	112	80	100	121	120	121	121	
				Crawler crane	8	115	80	100	124	123	124	124	
				Concrete discharging and pumping	17	107	80	100	119	118	119	119	
				Poker vibrator	17	112	80	100	124	123	124	124	
		Bottom up construction - superstructure	Prefabrication and structure installation	Tower crane	17	108	80	100	120	119	120	120	
				Welding	17	96	80	100	108	107	108	108	
				Gas cutter	17	94	80	100	106	105	106	106	
				Grinding	17	106	80	100	118	117	118	118	
		Architectural works	Architectural works e.g. window, painting, door, railing, etc	Welding	17	96	80	100	108	107	108	108	
				Grinding	17	106	80	100	118	117	118	118	
				Nail gun	17	101	80	100	113	112	113	113	
				Boom lift	17	105	80	100	117	116	117	117	
		Pavement construction works	Pavement construction works	Excavator	17	118	80	100	130	129	130	130	
				Concrete discharging and pumping	17	107	80	100	119	118	119	119	
		General works	Machinery maintenance	Welding	2	96	8	100	99	88	99	99	
				Electric drill	2	94	8	100	97	86	97	97	
				Construction materials delivery	Dump truck	17	114	80	100	126	125	126	126
					Transit mixer	25	116	80	100	130	129	130	130
				Waste management storage and handling	Dump truck	17	114	80	100	126	125	126	126
					Electricity supply	Generator	17	119	100	100	131	131	131
										140		141	

Appendix 7C: Noise Contours











Pre-Construction Works: Mitigated (L_{Aeq} 12 hours)



Pre-Construction Works: Mitigated (L_{Aeq} 5 minutes)

Legend

- EIA Study Area
- Indicative Boundary of Future Development Area
- Noise Sensitive Receivers

Noise Contour (dBA)

- 50 - <55
- 55 - <60
- 60 - <65
- 65 - <70
- 70 - <75
- 75 - <80
- 80 - <85
- 85 - <90
- ≥90

Basemap Source: ESRI

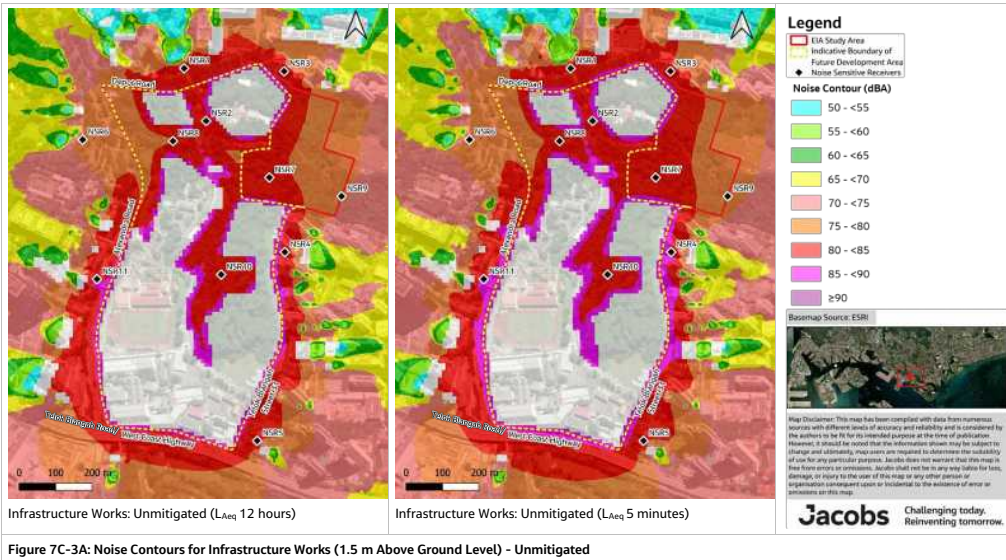


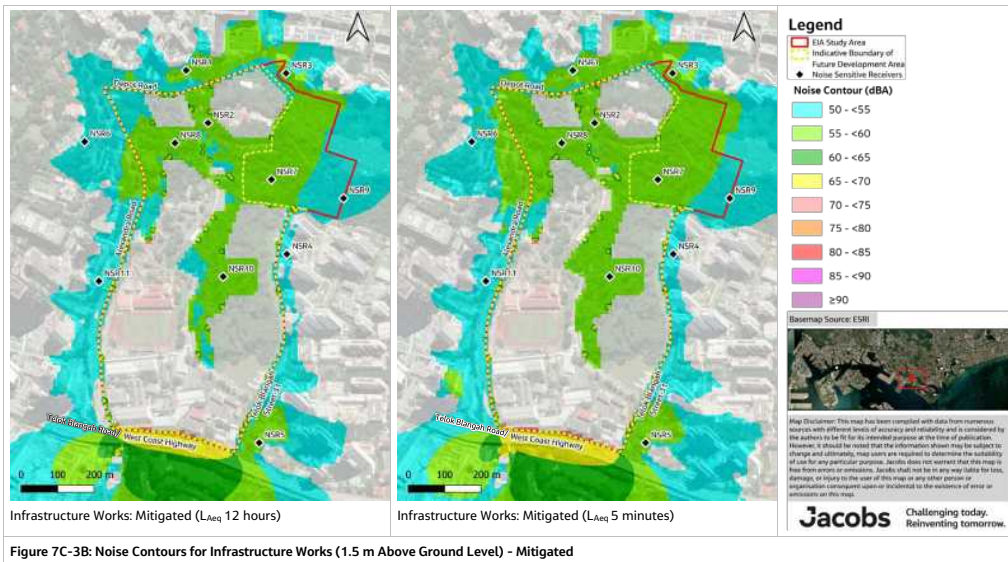
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Figure 7C-2B: Noise Contours for Pre-Construction Works (1.5 m Above Ground Level) - Mitigated





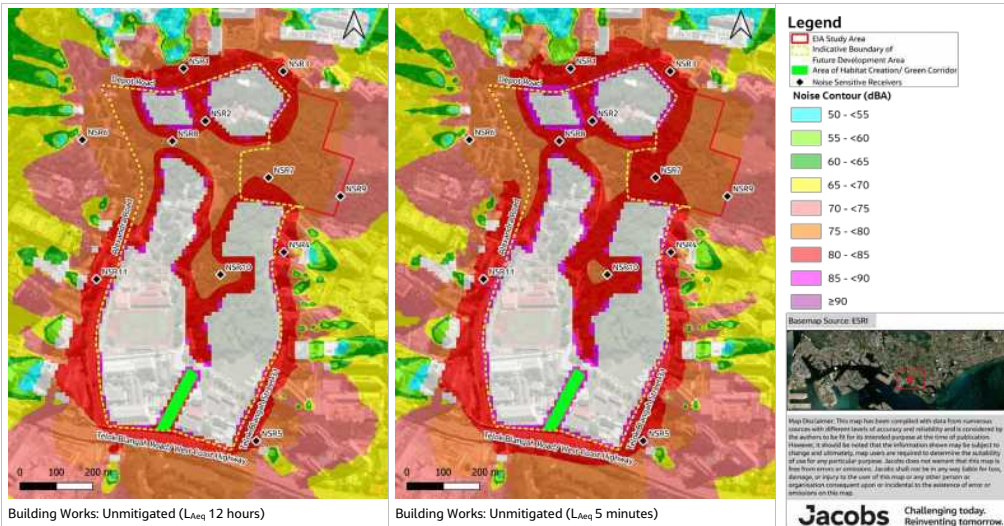
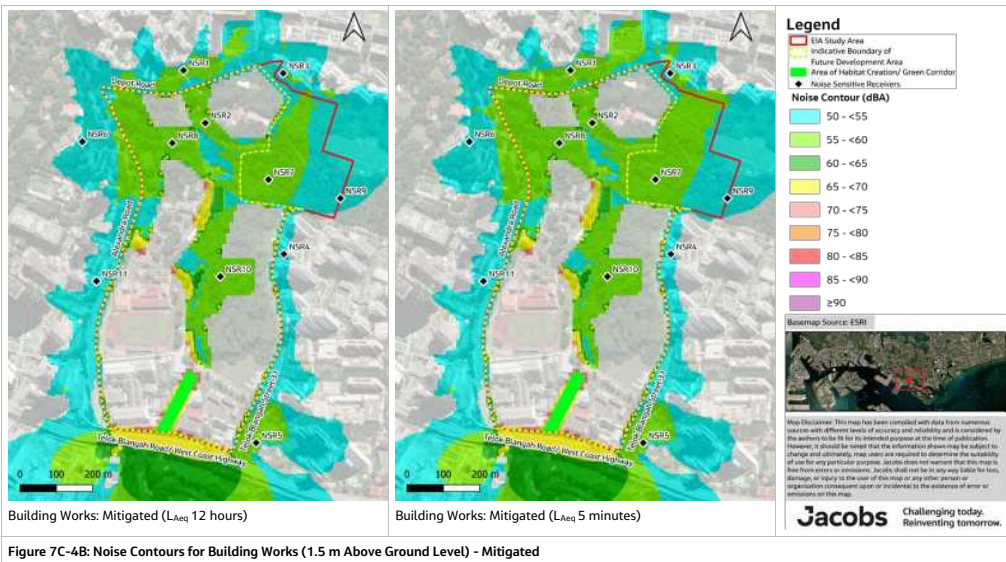


Figure 7C-4A: Noise Contours for Building Works (1.5 m Above Ground Level) - Unmitigated





Demolition Works: Unmitigated (L_{Aeq} 12 hours)



Demolition Works: Unmitigated (L_{Aeq} 5 minutes)

Legend

- EIA Study Area
- Indicative Boundary of Future Development Area
- Noise Sensitive Receivers

Noise Contour (dBA)

- 50 - <55
- 55 - <60
- 60 - <65
- 65 - <70
- 70 - <75
- 75 - <80
- 80 - <85
- 85 - <90
- ≥90

Basemap Source: ESRI



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Figure 7C-5A: Noise Contours for Demolition Works (0.5 m Above Ground Level) - Unmitigated



Demolition Works: Mitigated (L_{Aeq} 12 hours)



Demolition Works: Mitigated (L_{Aeq} 5 minutes)

Legend

- EIA Study Area
- Indicative Boundary of Future Development Area
- ◆ Noise Sensitive Receivers

Noise Contour (dBA)

- 50 - <55
- 55 - <60
- 60 - <65
- 65 - <70
- 70 - <75
- 75 - <80
- 80 - <85
- 85 - <90
- ≥90

Basemap Source: ESRI

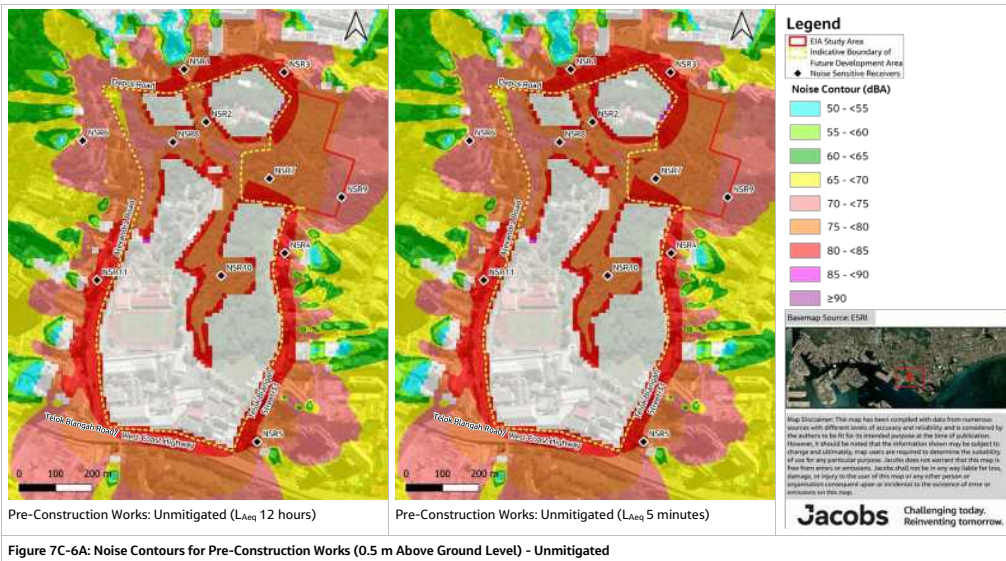


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Figure 7C-5B: Noise Contours for Demolition Works (0.5 m Above Ground Level) - Mitigated





Pre-Construction Works: Mitigated (L_{Aeq} 12 hours)



Pre-Construction Works: Mitigated (L_{Aeq} 5 minutes)

Legend

- EIA Study Area
- Indicative Boundary of Future Development Area
- Noise Sensitive Receivers

Noise Contour (dBA)

- 50 - <55
- 55 - <60
- 60 - <65
- 65 - <70
- 70 - <75
- 75 - <80
- 80 - <85
- 85 - <90
- ≥90

Basemap Source: ESRI



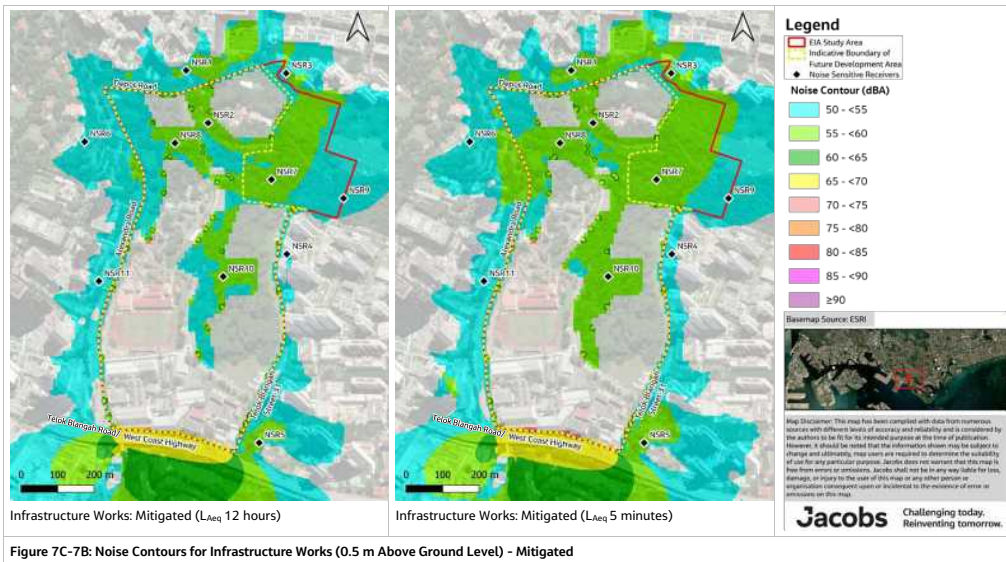
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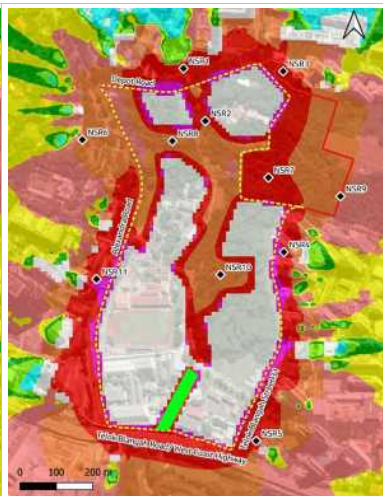
Figure 7C-6B: Noise Contours for Pre-Construction Works (0.5 m Above Ground Level) - Mitigated







Building Works: Unmitigated (L_{Aeq} 12 hours)



Building Works: Unmitigated (L_{Aeq} 5 minutes)

Legend

- EIA Study Area
- Indicative Boundary of Future Development Area
- Area of Habitat Creation/ Green Corridor
- Noise Sensitive Receptors

Noise Contour (dBA)

- 50 - <55
- 55 - <60
- 60 - <65
- 65 - <70
- 70 - <75
- 75 - <80
- 80 - <85
- 85 - <90
- ≥90

Basemap Source: ESRI

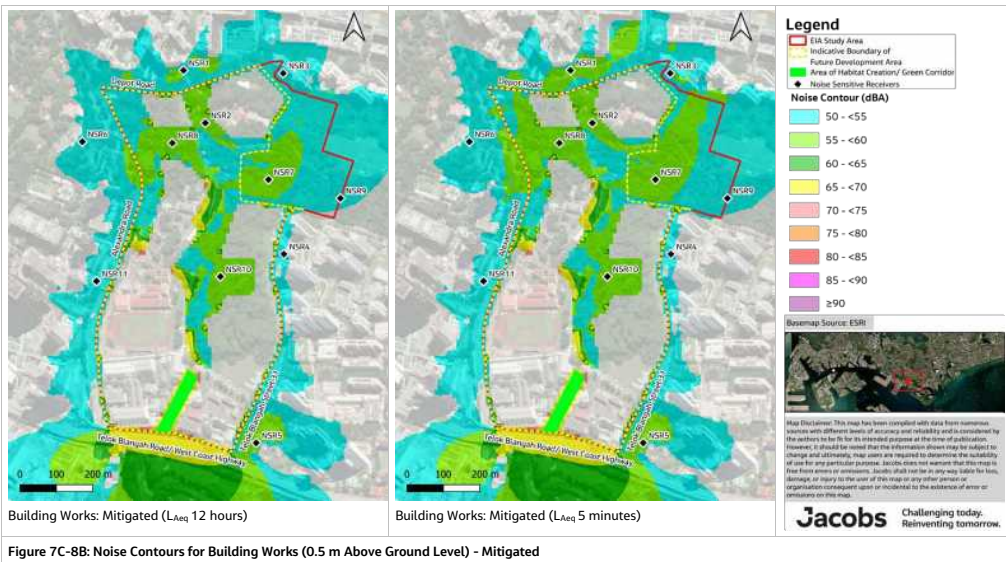


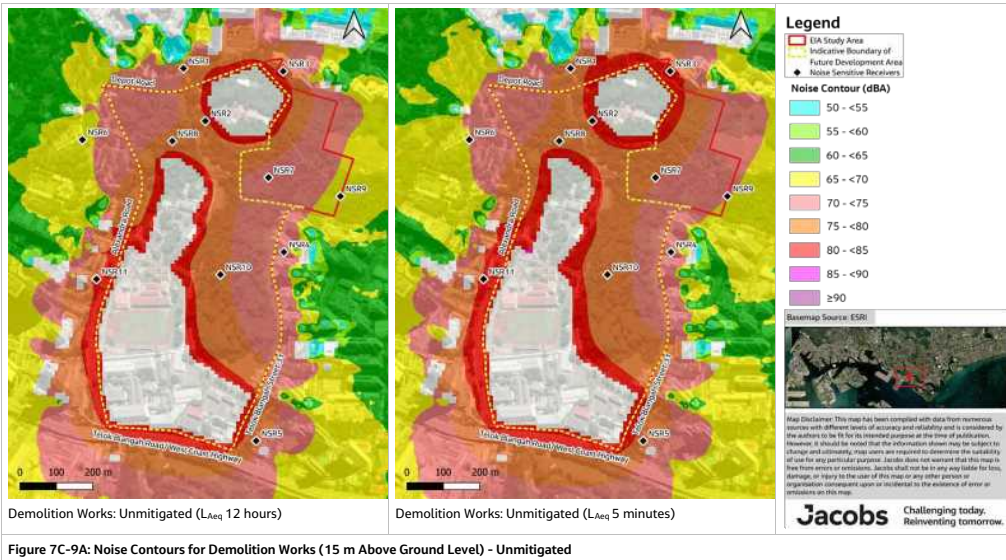
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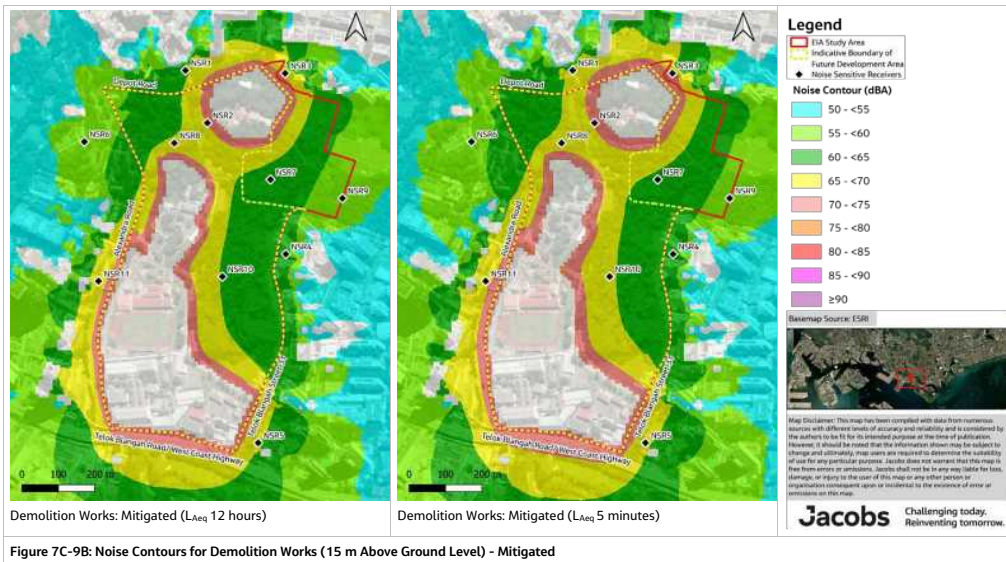
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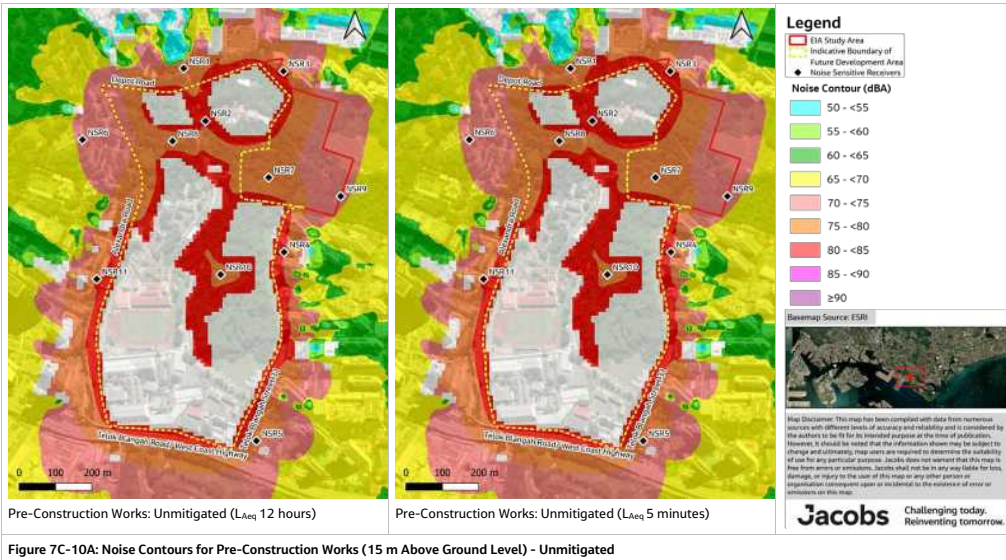
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Figure 7C-8A: Noise Contours for Building Works (0.5 m Above Ground Level) - Unmitigated

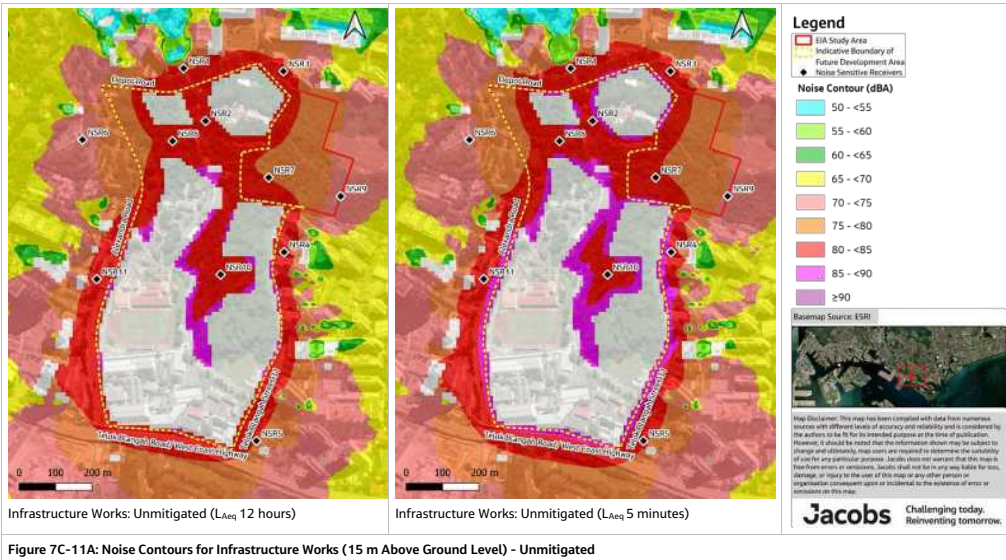




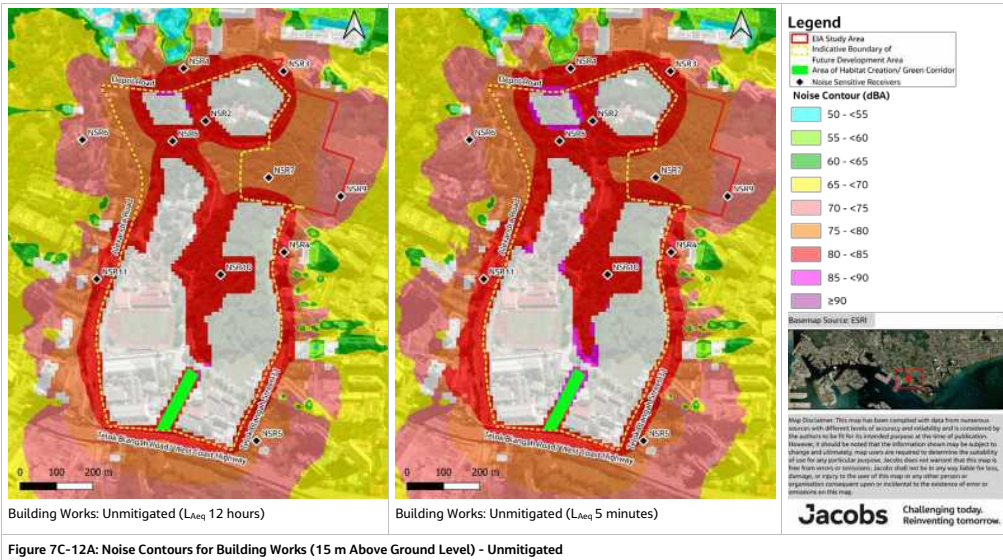


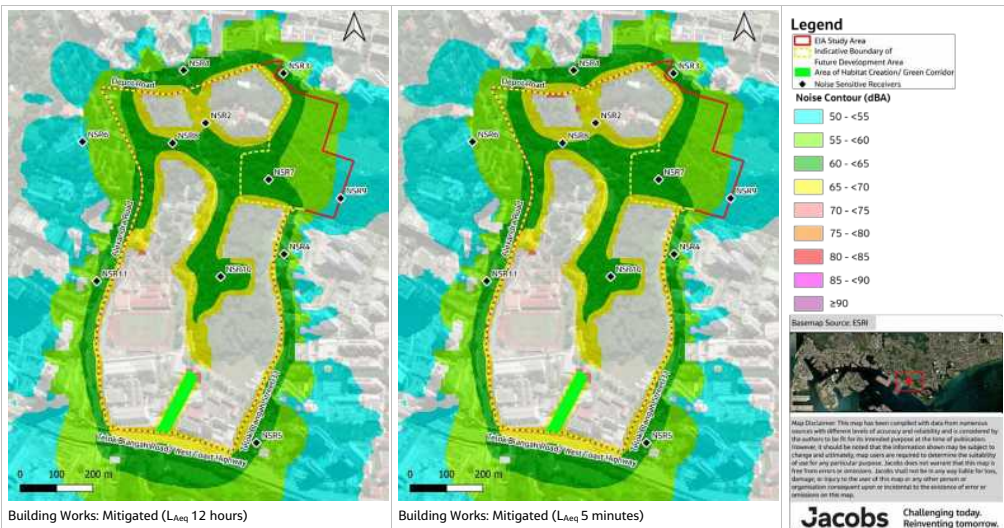












Building Works: Mitigated (L_{Aeq} 12 hours)

Building Works: Mitigated (L_{Aeq} 5 minutes)

Figure 7C-12B: Noise Contours for Building Works (15 m Above Ground Level) - Mitigated

Appendix 7D: RIAM for Noise IA



Description of Potential Impact	A1: Value		A2.1: Impact Nature		A2.2: Magnitude of Changes		A2.3: Impact Extend			B1: Permanence		B2: Impact Pathway		B3: Reversibility		B4: Cumulative		at	bt	ES	Impact Severity
Before Mitigation Measures (LAeq 12 hours)																					
Demolition Works																					
Noise emission from construction site to human (NSR1)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary		2	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-12	9	-108	Minor Negative
Noise emission from construction site to human (NSR2)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary		2	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-12	9	-108	Minor Negative
Noise emission from construction site to human (NSR3)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary		2	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-12	9	-108	Minor Negative
Noise emission from construction site to human (NSR4)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary		2	Short Term	2	Direct	3	Reversible	2	Cumulative	3	-12	10	-120	Minor Negative
Noise emission from construction site to human (NSR5)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary		2	Short Term	2	Direct	3	Reversible	2	Cumulative	3	-12	10	-120	Minor Negative
Noise emission from construction site to human (NSR6)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond indicative development boundary		2	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-8	9	-72	Minor Negative
Noise emission from construction site to ground-dwelling fauna (NSR7)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-18	9	-162	Moderate Negative
Noise emission from construction site to arboreal fauna (NSR7)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-18	9	-162	Moderate Negative
Noise emission from construction site to ground-dwelling fauna (NSR8)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-18	9	-162	Moderate Negative
Noise emission from construction site to arboreal fauna (NSR8)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-18	9	-162	Moderate Negative
Noise emission from construction site to ground-dwelling fauna (NSR9)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-18	9	-162	Moderate Negative
Noise emission from construction site to arboreal fauna (NSR9)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond EIA Study Area		3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-12	9	-108	Minor Negative
Noise emission from construction site to ground-dwelling fauna (NSR10)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Short Term	2	Direct	3	Reversible	2	Cumulative	3	-18	10	-180	Moderate Negative
Noise emission from construction site to arboreal fauna (NSR10)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Short Term	2	Direct	3	Reversible	2	Cumulative	3	-18	10	-180	Moderate Negative
Pre-Construction Works																					
Noise emission from construction site to human (NSR1)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary		2	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-12	9	-108	Minor Negative
Noise emission from construction site to human (NSR2)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary		2	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-12	9	-108	Minor Negative
Noise emission from construction site to human (NSR3)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary		2	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-12	9	-108	Minor Negative
Noise emission from construction site to human (NSR4)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary		2	Short Term	2	Direct	3	Reversible	2	Cumulative	3	-12	10	-120	Minor Negative
Noise emission from construction site to human (NSR5)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary		2	Short Term	2	Direct	3	Reversible	2	Cumulative	3	-12	10	-120	Minor Negative
Noise emission from construction site to human (NSR6)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary		2	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-12	9	-108	Minor Negative
Noise emission from construction site to ground-dwelling fauna (NSR7)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-18	9	-162	Moderate Negative
Noise emission from construction site to arboreal fauna (NSR7)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-18	9	-162	Moderate Negative
Noise emission from construction site to ground-dwelling fauna (NSR8)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-18	9	-162	Moderate Negative
Noise emission from construction site to arboreal fauna (NSR8)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-18	9	-162	Moderate Negative
Noise emission from construction site to ground-dwelling fauna (NSR9)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-18	9	-162	Moderate Negative
Noise emission from construction site to arboreal fauna (NSR9)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-18	9	-162	Moderate Negative
Noise emission from construction site to ground-dwelling fauna (NSR10)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Short Term	2	Direct	3	Reversible	2	Cumulative	3	-18	10	-180	Moderate Negative
Noise emission from construction site to arboreal fauna (NSR10)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Short Term	2	Direct	3	Reversible	2	Cumulative	3	-18	10	-180	Moderate Negative
Infrastructure Works																					
Noise emission from construction site to human (NSR1)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary		2	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-12	10	-120	Minor Negative
Noise emission from construction site to human (NSR2)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary		2	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-12	10	-120	Minor Negative
Noise emission from construction site to human (NSR3)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary		2	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-12	10	-120	Minor Negative
Noise emission from construction site to human (NSR4)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary		2	Medium Term	3	Direct	3	Reversible	2	Cumulative	3	-12	11	-132	Moderate Negative
Noise emission from construction site to human (NSR5)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary		2	Medium Term	3	Direct	3	Reversible	2	Cumulative	3	-12	11	-132	Moderate Negative
Noise emission from construction site to human (NSR6)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary		2	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-12	10	-120	Minor Negative
Noise emission from construction site to ground-dwelling fauna (NSR7)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-18	10	-180	Moderate Negative
Noise emission from construction site to arboreal fauna (NSR7)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-18	10	-180	Moderate Negative
Noise emission from construction site to ground-dwelling fauna (NSR8)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-18	10	-180	Moderate Negative
Noise emission from construction site to arboreal fauna (NSR8)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-18	10	-180	Moderate Negative
Noise emission from construction site to ground-dwelling fauna (NSR9)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-18	10	-180	Moderate Negative
Noise emission from construction site to arboreal fauna (NSR9)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-18	10	-180	Moderate Negative
Noise emission from construction site to ground-dwelling fauna (NSR10)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Medium Term	3	Direct	3	Reversible	2	Cumulative	3	-18	11	-198	Moderate Negative
Noise emission from construction site to arboreal fauna (NSR10)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Medium Term	3	Direct	3	Reversible	2	Cumulative	3	-18	11	-198	Moderate Negative
Building Works																					
Noise emission from construction site to human (NSR1)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary		2	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-12	10	-120	Minor Negative
Noise emission from construction site to human (NSR2)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary		2	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-12	10	-120	Minor Negative
Noise emission from construction site to human (NSR3)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary		2	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-12	10	-120	Minor Negative
Noise emission from construction site to human (NSR4)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary		2	Medium Term	3	Direct	3	Reversible	2	Cumulative	3	-12	11	-132	Moderate Negative
Noise emission from construction site to human (NSR5)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary		2	Medium Term	3	Direct	3	Reversible	2	Cumulative	3	-12	11	-132	Moderate Negative
Noise emission from construction site to human (NSR6)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary		2	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-12	10	-120	Minor Negative
Noise emission from construction site to ground-dwelling fauna (NSR7)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-18	10	-180	Moderate Negative
Noise emission from construction site to arboreal fauna (NSR7)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-18	10	-180	Moderate Negative
Noise emission from construction site to ground-dwelling fauna (NSR8)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-18	10	-180	Moderate Negative
Noise emission from construction site to arboreal fauna (NSR8)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-18	10	-180	Moderate Negative
Noise emission from construction site to ground-dwelling fauna (NSR9)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-18	10	-180	Moderate Negative
Noise emission from construction site to arboreal fauna (NSR9)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-18	10	-180	Moderate Negative
Noise emission from construction site to ground-dwelling fauna (NSR10)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Medium Term	3	Direct	3	Reversible	2	Cumulative	3	-18	11	-198	Moderate Negative
Noise emission from construction site to arboreal fauna (NSR10)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area		3	Medium Term	3	Direct	3	Reversible	2	Cumulative	3	-18	11	-198	Moderate Negative

Description of Potential Impact	A1: Value	A2.1: Impact Nature	A2.2: Magnitude of Changes	A2.3: Impact Extend	B1: Permanence	B2: Impact Pathway	B3: Reversibility	B4: Cumulative	at	bt	ES	Impact Severity								
Before Mitigation Measures (LAeq 5 minutes)																				
Demolition Works																				
Noise emission from construction site to human (NSR1)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond indicative development boundary	2	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-4	9	-36	Slight Negative
Noise emission from construction site to human (NSR2)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond indicative development boundary	2	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-8	9	-72	Minor Negative
Noise emission from construction site to human (NSR3)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary	2	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-12	9	-108	Minor Negative
Noise emission from construction site to human (NSR4)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond indicative development boundary	2	Short Term	2	Direct	3	Reversible	2	Cumulative	3	-8	10	-80	Minor Negative
Noise emission from construction site to human (NSR5)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond indicative development boundary	2	Short Term	2	Direct	3	Reversible	2	Cumulative	3	-4	10	-40	Slight Negative
Noise emission from construction site to human (NSR6)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond indicative development boundary	2	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-4	9	-36	Slight Negative
Noise emission from construction site to ground-dwelling fauna (NSR7)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-6	9	-54	Slight Negative
Noise emission from construction site to arboreal fauna (NSR7)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-6	9	-54	Slight Negative
Noise emission from construction site to ground-dwelling fauna (NSR8)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-6	9	-54	Slight Negative
Noise emission from construction site to arboreal fauna (NSR8)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-12	9	-108	Minor Negative
Noise emission from construction site to ground-dwelling fauna (NSR9)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-6	9	-54	Slight Negative
Noise emission from construction site to arboreal fauna (NSR9)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-6	9	-54	Slight Negative
Noise emission from construction site to ground-dwelling fauna (NSR10)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-6	9	-54	Slight Negative
Noise emission from construction site to ground-dwelling fauna (NSR10)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Cumulative	3	-6	10	-60	Slight Negative
Noise emission from construction site to arboreal fauna (NSR10)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Cumulative	3	-12	10	-120	Minor Negative
Pre-Construction Works																				
Noise emission from construction site to human (NSR1)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond indicative development boundary	2	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-4	9	-36	Slight Negative
Noise emission from construction site to human (NSR2)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond indicative development boundary	2	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-8	9	-72	Minor Negative
Noise emission from construction site to human (NSR3)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary	2	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-12	9	-108	Minor Negative
Noise emission from construction site to human (NSR4)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary	2	Short Term	2	Direct	3	Reversible	2	Cumulative	3	-12	10	-120	Minor Negative
Noise emission from construction site to human (NSR5)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond indicative development boundary	2	Short Term	2	Direct	3	Reversible	2	Cumulative	3	-4	10	-40	Slight Negative
Noise emission from construction site to human (NSR6)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond indicative development boundary	2	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-4	9	-36	Slight Negative
Noise emission from construction site to ground-dwelling fauna (NSR7)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-6	9	-54	Slight Negative
Noise emission from construction site to arboreal fauna (NSR7)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-6	9	-54	Slight Negative
Noise emission from construction site to ground-dwelling fauna (NSR8)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-6	9	-54	Slight Negative
Noise emission from construction site to arboreal fauna (NSR8)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-12	9	-108	Minor Negative
Noise emission from construction site to ground-dwelling fauna (NSR9)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-6	9	-54	Slight Negative
Noise emission from construction site to arboreal fauna (NSR9)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-6	9	-54	Slight Negative
Noise emission from construction site to ground-dwelling fauna (NSR10)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Cumulative	3	-12	10	-120	Minor Negative
Noise emission from construction site to arboreal fauna (NSR10)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Cumulative	3	-18	10	-180	Moderate Negative
Infrastructure Works																				
Noise emission from construction site to human (NSR1)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond indicative development boundary	2	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-8	10	-80	Minor Negative
Noise emission from construction site to human (NSR2)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond indicative development boundary	2	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-8	10	-80	Minor Negative
Noise emission from construction site to human (NSR3)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary	2	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-12	10	-120	Minor Negative
Noise emission from construction site to human (NSR4)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary	2	Medium Term	3	Direct	3	Reversible	2	Cumulative	3	-12	11	-132	Moderate Negative
Noise emission from construction site to human (NSR5)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond indicative development boundary	2	Medium Term	3	Direct	3	Reversible	2	Cumulative	3	-8	11	-88	Minor Negative
Noise emission from construction site to human (NSR6)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond indicative development boundary	2	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-4	10	-40	Slight Negative
Noise emission from construction site to ground-dwelling fauna (NSR7)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-6	10	-60	Slight Negative
Noise emission from construction site to arboreal fauna (NSR7)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-6	10	-60	Slight Negative
Noise emission from construction site to ground-dwelling fauna (NSR8)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-12	10	-120	Minor Negative
Noise emission from construction site to arboreal fauna (NSR8)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-18	10	-180	Moderate Negative
Noise emission from construction site to ground-dwelling fauna (NSR9)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-6	10	-60	Slight Negative
Noise emission from construction site to arboreal fauna (NSR9)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-6	10	-60	Slight Negative
Noise emission from construction site to ground-dwelling fauna (NSR10)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Cumulative	3	-18	11	-198	Moderate Negative
Noise emission from construction site to arboreal fauna (NSR10)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Cumulative	3	-18	11	-198	Moderate Negative
Building Works																				
Noise emission from construction site to human (NSR1)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond indicative development boundary	2	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-8	10	-80	Minor Negative
Noise emission from construction site to human (NSR2)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond indicative development boundary	2	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-8	10	-80	Minor Negative
Noise emission from construction site to human (NSR3)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary	2	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-12	10	-120	Minor Negative
Noise emission from construction site to human (NSR4)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary	2	Medium Term	3	Direct	3	Reversible	2	Cumulative	3	-12	11	-132	Moderate Negative
Noise emission from construction site to human (NSR5)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond indicative development boundary	2	Medium Term	3	Direct	3	Reversible	2	Cumulative	3	-4	11	-44	Slight Negative
Noise emission from construction site to human (NSR6)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond indicative development boundary	2	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-4	10	-40	Slight Negative
Noise emission from construction site to ground-dwelling fauna (NSR7)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-6	10	-60	Slight Negative
Noise emission from construction site to arboreal fauna (NSR7)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-6	10	-60	Slight Negative
Noise emission from construction site to ground-dwelling fauna (NSR8)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-12	10	-120	Minor Negative
Noise emission from construction site to arboreal fauna (NSR8)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-18	10	-180	Moderate Negative
Noise emission from construction site to ground-dwelling fauna (NSR9)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-6	10	-60	Slight Negative
Noise emission from construction site to arboreal fauna (NSR9)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-6	10	-60	Slight Negative
Noise emission from construction site to ground-dwelling fauna (NSR10)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Cumulative	3	-12	11	-132	Moderate Negative
Noise emission from construction site to arboreal fauna (NSR10)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Cumulative	3	-18	11	-198	Moderate Negative

Description of Potential Impact	A1: Value		A2.1: Impact Nature		A2.2: Magnitude of Changes		A2.3: Impact Extend		B1: Permanence		B2: Impact Pathway		B3: Reversibility		B4: Cumulative		at	bt	ES	Impact Severity
Post-Mitigation Measures (LAeq 12 hours)																				
Demolition Works																				
Noise emission from construction site to human (NSR1)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond indicative development boundary	2	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-8	9	-72	Minor Negative
Noise emission from construction site to human (NSR2)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond indicative development boundary	2	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-4	9	-36	Slight Negative
Noise emission from construction site to human (NSR3)	EIA Study Area & 150m NSR	2	Negative	-1	High	3	Beyond indicative development boundary	2	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-12	9	-108	Minor Negative
Noise emission from construction site to human (NSR4)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond indicative development boundary	2	Short Term	2	Direct	3	Reversible	2	Cumulative	3	-8	10	-80	Minor Negative
Noise emission from construction site to human (NSR5)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond indicative development boundary	2	Short Term	2	Direct	3	Reversible	2	Cumulative	3	-4	10	-40	Slight Negative
Noise emission from construction site to human (NSR6)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond indicative development boundary	2	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-4	9	-36	Slight Negative
Noise emission from construction site to ground-dwelling fauna (NSR7)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-6	9	-54	Slight Negative
Noise emission from construction site to arboreal fauna (NSR7)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-6	9	-54	Slight Negative
Noise emission from construction site to ground-dwelling fauna (NSR8)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-6	9	-54	Slight Negative
Noise emission from construction site to arboreal fauna (NSR8)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-12	9	-108	Minor Negative
Noise emission from construction site to ground-dwelling fauna (NSR9)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-6	9	-54	Slight Negative
Noise emission from construction site to arboreal fauna (NSR9)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-6	9	-54	Slight Negative
Noise emission from construction site to ground-dwelling fauna (NSR10)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Cumulative	3	-6	10	-60	Slight Negative
Noise emission from construction site to arboreal fauna (NSR10)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Cumulative	3	-12	10	-120	Minor Negative
Pre-Construction Works																				
Noise emission from construction site to human (NSR1)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond indicative development boundary	2	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-4	9	-36	Slight Negative
Noise emission from construction site to human (NSR2)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond indicative development boundary	2	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-4	9	-36	Slight Negative
Noise emission from construction site to human (NSR3)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond indicative development boundary	2	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-8	9	-72	Minor Negative
Noise emission from construction site to human (NSR4)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond indicative development boundary	2	Short Term	2	Direct	3	Reversible	2	Cumulative	3	-8	10	-80	Minor Negative
Noise emission from construction site to human (NSR5)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond indicative development boundary	2	Short Term	2	Direct	3	Reversible	2	Cumulative	3	-4	10	-40	Slight Negative
Noise emission from construction site to human (NSR6)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond indicative development boundary	2	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-4	9	-36	Slight Negative
Noise emission from construction site to ground-dwelling fauna (NSR7)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-6	9	-54	Slight Negative
Noise emission from construction site to arboreal fauna (NSR7)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-6	9	-54	Slight Negative
Noise emission from construction site to ground-dwelling fauna (NSR8)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-6	9	-54	Slight Negative
Noise emission from construction site to arboreal fauna (NSR8)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-12	9	-108	Minor Negative
Noise emission from construction site to ground-dwelling fauna (NSR9)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-6	9	-54	Slight Negative
Noise emission from construction site to arboreal fauna (NSR9)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Non-Cumulative	2	-6	9	-54	Slight Negative
Noise emission from construction site to ground-dwelling fauna (NSR10)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Cumulative	3	-6	10	-60	Slight Negative
Noise emission from construction site to arboreal fauna (NSR10)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Short Term	2	Direct	3	Reversible	2	Cumulative	3	-6	10	-60	Slight Negative
Infrastructure Works																				
Noise emission from construction site to human (NSR1)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond indicative development boundary	2	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-4	10	-40	Slight Negative
Noise emission from construction site to human (NSR2)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond indicative development boundary	2	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-4	10	-40	Slight Negative
Noise emission from construction site to human (NSR3)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond indicative development boundary	2	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-8	10	-80	Minor Negative
Noise emission from construction site to human (NSR4)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond indicative development boundary	2	Medium Term	3	Direct	3	Reversible	2	Cumulative	3	-8	11	-88	Minor Negative
Noise emission from construction site to human (NSR5)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond indicative development boundary	2	Medium Term	3	Direct	3	Reversible	2	Cumulative	3	-4	11	-44	Slight Negative
Noise emission from construction site to human (NSR6)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond indicative development boundary	2	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-4	10	-40	Slight Negative
Noise emission from construction site to ground-dwelling fauna (NSR7)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-6	10	-60	Slight Negative
Noise emission from construction site to arboreal fauna (NSR7)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-6	10	-60	Slight Negative
Noise emission from construction site to ground-dwelling fauna (NSR8)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-6	10	-60	Slight Negative
Noise emission from construction site to arboreal fauna (NSR8)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-12	10	-120	Minor Negative
Noise emission from construction site to ground-dwelling fauna (NSR9)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-6	10	-60	Slight Negative
Noise emission from construction site to arboreal fauna (NSR9)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-6	10	-60	Slight Negative
Noise emission from construction site to ground-dwelling fauna (NSR10)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Cumulative	3	-6	11	-66	Minor Negative
Noise emission from construction site to arboreal fauna (NSR10)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Cumulative	3	-6	11	-66	Minor Negative
Building Works																				
Noise emission from construction site to human (NSR1)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond indicative development boundary	2	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-4	10	-40	Slight Negative
Noise emission from construction site to human (NSR2)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond indicative development boundary	2	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-4	10	-40	Slight Negative
Noise emission from construction site to human (NSR3)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond indicative development boundary	2	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-8	10	-80	Minor Negative
Noise emission from construction site to human (NSR4)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond indicative development boundary	2	Medium Term	3	Direct	3	Reversible	2	Cumulative	3	-8	11	-88	Minor Negative
Noise emission from construction site to human (NSR5)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond indicative development boundary	2	Medium Term	3	Direct	3	Reversible	2	Cumulative	3	-4	11	-44	Slight Negative
Noise emission from construction site to human (NSR6)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond indicative development boundary	2	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-4	10	-40	Slight Negative
Noise emission from construction site to ground-dwelling fauna (NSR7)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-6	10	-60	Slight Negative
Noise emission from construction site to arboreal fauna (NSR7)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-6	10	-60	Slight Negative
Noise emission from construction site to ground-dwelling fauna (NSR8)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-6	10	-60	Slight Negative
Noise emission from construction site to arboreal fauna (NSR8)	EIA Study Area & 150m NSR	2	Negative	-1	Medium	2	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-12	10	-120	Minor Negative
Noise emission from construction site to ground-dwelling fauna (NSR9)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-6	10	-60	Slight Negative
Noise emission from construction site to arboreal fauna (NSR9)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Non-Cumulative	2	-6	10	-60	Slight Negative
Noise emission from construction site to ground-dwelling fauna (NSR10)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Cumulative	3	-6	11	-66	Minor Negative
Noise emission from construction site to arboreal fauna (NSR10)	EIA Study Area & 150m NSR	2	Negative	-1	Low	1	Beyond EIA Study Area	3	Medium Term	3	Direct	3	Reversible	2	Cumulative	3	-6	11	-66	Minor Negative

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Appendix 9A: Environmental Impact Register for Ecology and Biodiversity



Appendix 9A: Environmental Impact Register for Ecology and Biodiversity

	Receptor		Potential Impact		Recommended Mitigation Measures	Residual Impact Significance	Recommended Monitoring Required (to be Further Reviewed during EMMP Stage)	Resources and Responsible Party
	Sensitive Receiver	Value/ Sensitivity	Impact	Overall Impact Significance				
Habitat	Native-dominated Secondary Forest	National/ High	Loss of Habitat	Major Negative	<u>Design Phase</u> - Implement Proposed Retained Area (PRA) and Area of Habitat Creation (AHC). - To retain existing habitats, including the forest stream and most of the native-dominated secondary forest. <u>Pre-construction/ Construction Phase</u> - Implement minimum control measures outlined in Section 4.4.2.1. - Conduct regular inspections in habitats adjacent to the worksite. - Implement dense landscaping and in-fill planting along the new forest edges. - Carry out habitat enhancement in PRA and AHC. <u>Post-construction/ Operational Phase</u> - Put up signages with guidelines to remind visitors not to stray off-trail, litter, or release exotic. - Conduct regular removal of undesirable exotic species. - Carry out regular maintenance of the PRA and AHC. - Restrict entry of retained forest at night (1900h – 0700h).	Moderate Negative	- Daily environmental inspection (construction phase) - Monthly flora inspection (construction phase)	- Developing Agency (design phase) - Contractor Project Manager (PM) - Environment Control Officer (ECO) - Appointed Ecologist
	Abandoned-land Forest; Exotic-dominated Secondary Forest	National/ Medium		Moderate Negative		Moderate Negative		
	Forest Stream	National/ Medium		Moderate Negative		No Change/ Status Quo		
	Native-dominated Secondary Forest	National/ High	Habitat Degradation (Post-construction/ Operational Phase)	Minor Negative		Minor Negative		
	Native-dominated Secondary Forest	National/ High	Changes in Microclimatic Conditions (Post-construction/ Operational Phase)	Moderate Negative		Moderate Negative		
	Exotic-dominated Secondary Forest	National/ Medium				Minor Negative		
	Forest Stream	National/ Medium						
	Native-dominated Secondary Forest	National/ High	Introduction of Exotic Species	Moderate Negative		Moderate Negative		
Flora	Plant Species of High Ecological Value (29)	National/ High	Mortality	No Change to Major Negative	<u>Design Phase</u> - Implement PRA. - To retain flora of high ecological value, including species of conservation significance (CS) and large specimens within the PRA. <u>Pre-construction/ Construction Phase</u> - Transplant/ salvage CS flora species. - Implement minimum control measures outlined in Section 4.4.2.1. - Conduct regular site inspections to ensure contractor compliance with the EMMP, detailed in Section 8.5. - Inspection to verify that vegetation is cleared only within the contract boundary. <u>Post-construction/ Operation Phase</u> - Carry out regular maintenance of the PRA and AHC.	No Change to Major Negative	- Daily environmental inspection (construction phase) - Monthly flora inspection (construction phase)	- Developing Agency (design phase) - Appointed Flora Ecologist - National Parks Board (NParks) (for CS flora salvaging and post-construction monitoring)

	Receptor		Potential Impact		Recommended Mitigation Measures	Residual Impact Significance	Recommended Monitoring Required (to be Further Reviewed during EMMP Stage)	Resources and Responsible Party
	Sensitive Receiver	Value/ Sensitivity	Impact	Overall Impact Significance				
Flora	Plant Species of High Ecological Value (29)	National/ High	Decline in Plant Health and Survival	No Change to Moderate Negative	<u>Design Phase</u> - Implement PRA. - To retain flora of high ecological value, including CS specimens and large specimens within the PRA. <u>Pre-construction/ Construction Phase</u> - Implement minimum control measures outlined in Section 4.4.2.1. - Conduct regular inspections in habitats adjacent to the worksite. Conduct regular removal of undesirable exotic species. <u>Post-construction/ Operation Phase</u> - Carry out regular maintenance of the PRA and AHC.	No Change to Moderate Negative	Monthly flora inspection (construction phase)	- Contractor PM - Appointed Flora Ecologist - NParks (for post-construction monitoring)
Fauna	Faunal Species of High Ecological Value (83)	National/ High	Loss of/ Reduction in Habitats and Food Sources (Construction Phase)	Moderate Negative to Major Negative	<u>Design Phase</u> - Implement PRA. - To retain existing habitats, including the forest stream and most of the native-dominated secondary forest; the PRA contains keystone flora species that provide food for fauna, such as <i>Ficus fistulosa</i> and <i>Ficus variegata</i>. - A minimum 30 m-wide ecological corridor for forest-associated birds to use as safe passage to nearby ecological nodes (e.g., Berlayar Creek, Keppel Club). <u>Pre-construction/ Construction Phase</u> - Conduct regular site inspections to ensure contractor compliance with the EMMP.	Moderate Negative to Major Negative	- Monthly fauna monitoring (construction phase) - Monthly fauna inspection (construction phase)	- Contractor PM - ECO - Appointed Ecologist
	Faunal Species of High Ecological Value (83)	National/ High	Loss/ Reduction of Ecological Connectivity for Fauna Movement (Construction Phase)	Moderate Negative		Minor Negative to Moderate Negative		
	Faunal Species of High Ecological Value (83)	National/ High	Accidental Injury or Mortality (Construction Phase)	No Change to Moderate Negative	<u>Design Phase</u> - Integrate bird-friendly building design to prevent collisions. - Implement road-calming measures along internal roads to reduce roadkill risk. <u>Pre-construction/ Construction Phase</u> - Conduct monthly fauna inspections to ensure contractor compliance with the EMMP, including the translocation of bamboo bats by the Appointed Ecologist or a certified wildlife management company.	No Change to Moderate Negative	- Monthly fauna monitoring (construction phase) - Monthly fauna inspection (construction phase)	- Contractor PM - ECO - Appointed Ecologist
	Faunal Species of High Ecological Value (83)	National/ High	Light Disturbance	Minor Negative to Moderate Negative	<u>Design Phase</u> Adopt light management strategies to prevent light spill.	Minor Negative	Not applicable (N.A.)	N.A.

	Receptor		Potential Impact		Recommended Mitigation Measures	Residual Impact Significance	Recommended Monitoring Required (to be Further Reviewed during EMMP Stage)	Resources and Responsible Party
	Sensitive Receiver	Value/ Sensitivity	Impact	Overall Impact Significance				
	Faunal Species of High Ecological Value (83)	National/ High	Human-wildlife Conflict	No Change to Moderate Negative	<u>Pre-construction/ Construction Phase</u> - Implement minimum control measures outlined in Section 4.4.2.1. - Conduct Biodiversity Awareness Training for construction personnel every 6 months. - Conduct regular fauna inspections within the worksite <u>Post-construction/ Operational Phase</u> - Put up signages with guidelines for visitors for safe wildlife interaction and information on the Wildlife Act and associated penalties. - Restrict entry of retained forest at night (1900h – 0700h).	No Change to Minor Negative	- Daily environmental inspection (construction phase) - Monthly fauna inspection (construction phase) - Monthly fauna monitoring (construction phase)	- ECO - Appointed Ecologist - NParks
	Faunal Species of High Ecological Value (83)	National/ High	Human Disturbance	Minor Negative		No Change to Minor Negative		
	Faunal Species of High Ecological Value (83)	National/ High	Poaching	No Change to Moderate Negative		No Change to Minor Negative		

**Appendix 9B: Environmental Impact Register for
Physical Environment**



Appendix 9B: Environmental Impact Register for Physical Environment

Environmental Aspect	Receptor		Potential Impact		Recommended Mitigation Measures	Residual Impact Significance	Recommended Monitoring (to be Further Reviewed during EMMP Stage)	Resources and Responsible Party
	Sensitive Receiver	Value/ Sensitivity	Impact	Overall Impact Significance				
Geomorphology and Soil	Local soil within the work area	Local/ Medium	Changes to soil infiltration capacity	Minor Negative	<u>Pre-construction/ Construction Phase</u> - Implement sedimentation and erosion-specific minimum controls commonly adopted in Singapore for similar construction activities as given in Table 5-13 of Section 5. - Carry out site clearance and earthworks in stages following a programmatic excavation, cut-and-fill, and earthmoving plan to minimise the extent of disturbed areas at any given time. - Appoint a Qualified Person (QP) or Professional Engineer to undertake slope stability and soil compaction assessments within and adjacent to the areas of concern prior to any site clearance or earthworks. - Apply the approved ECM plan, including all minimum control measures and best management practices (BMPs) throughout the construction phase. - Reuse the excavated topsoil to backfill low-lying areas to establish the platform for the development. - Any excess soil material shall be transported off-site for reuse in other projects, where feasible. - Unsuitable materials are recommended to be stockpiled separately and disposed of at approved off-site facilities in accordance with regulatory requirements. - Rehabilitate temporary construction areas, including staging and stockpiling zones, to conditions as close as practicable to their original pre-construction state upon completion of works.	Slight Negative	Daily environmental inspection	- Contractor Project Manager (PM) - Environment Control Officer (ECO)
	Local soil within the work area	Local/ Medium	Soil erosion and sediment yield	Minor Negative		Slight Negative		
Hydrology	Downstream habitats at Berlayer Creek and Labrador Nature Reserve	National/ High	Change in runoff peak flow	Major Negative	<u>Detailed Design Phase</u> - Optimising the drainage system to increase storage capacity and maintain runoff within Public Utilities Board (PUB)-acceptable limits. - Conduct a detailed dynamic hydraulic assessment to confirm the required additional holding capacity and to establish an appropriate flow control strategy. <u>Pre-construction/ Construction Phase</u> - Implement surface water-specific minimum controls commonly adopted in Singapore for similar construction activities as given in Table 6-14 of Section 6. - Implement staged land clearing and control ground disturbance to minimise large-scale exposure of impervious surfaces at any given time. <u>Post-construction/ Operation Phase</u> - incorporating Active, Beautiful and Clean (ABC) water features and permeable surfaces to enhance infiltration. - Incorporating vegetated swales along roads and open spaces to slow down stormwater flow and improve filtration.	Minor Negative	- Daily environmental inspection - Visual inspection for on-site flooding	- HDB/URA (Detailed Design Phase) - Contractor PM - ECO

Environmental Aspect	Receptor		Potential Impact		Recommended Mitigation Measures	Residual Impact Significance	Recommended Monitoring (to be Further Reviewed during EMMP Stage)	Resources and Responsible Party
	Sensitive Receiver	Value/ Sensitivity	Impact	Overall Impact Significance				
Water Quality	Waterbodies, aquatic habitats	National/ High	Degradation of water quality due to surface runoff	Moderate Negative	<u>Pre-construction/ Construction Phase</u> - Implement surface water-specific minimum controls commonly adopted in Singapore for similar construction activities as given in Table 6-14 of Section 6. - Carry out construction works in phases to minimise the area of disturbance at any one time. - Install site boundary hoarding with silt fences at the base to fully contain silty runoff from construction activities. - Place sandbags along the edges of existing earth drains to prevent soil and silt from entering the drainage system. - Cover all exposed soil surfaces with fully biodegradable Earth Control Blankets (ECB) or other approved erosion control methods. - Cover cleared vegetation, especially on sloped areas, with fully biodegradable ECB to prevent erosion of exposed soil. - Re-vegetate exposed ground promptly to stabilise surfaces and minimise soil erosion into watercourses.	Minor Negative	- Real-time monitoring of Total Suspended Solids (TSS) at ECM discharge points. - Daily inspection of implementation of actions and monitoring as prescribed within the ECM Plan. - Monthly surface water sampling at ECM discharge points for parameters specified in the EPM discharge limits (Table 6-3, Section 6).	- Contractor PM - ECO
Water Quality	Waterbodies, aquatic habitats	National/ Medium	Accidental spillage of diesel, oil, and other pollutive substances	Moderate Negative	<u>Pre-construction/ Construction Phase</u> - Provide spill containment at all discharge points. - Develop and implement a spill response plan for accidental discharges, and ensure all site personnel are informed and trained in spill response procedures. - Regularly maintain all spill containment facilities and spill trays to ensure they remain effective and prevent rainwater from washing out pollutive substances. - Clean spills within the same day or immediately under wet weather conditions. - Compile Safety Data Sheets (SDS) for all hazardous materials used or stored on site, and maintain them on site in a central, accessible location for viewing by all personnel at site. - Provide spill response kits at worksites, appropriate to the hazardous materials in use. - Store hazardous materials in covered, bunded areas in accordance with manufacturer's requirements, with on-site quantities kept to a minimum.	Slight Negative	Daily site inspections to confirm provision of spill kits and secondary containment trays.	- Contractor PM - ECO
Water Quality	Waterbodies, aquatic habitats	National/ Medium	Degradation of water quality due to trade effluent discharge	Moderate Negative	<u>Pre-construction/ Construction Phase</u> - Implement surface water-specific minimum controls commonly adopted in Singapore for similar construction activities as given in Table 6-14 of Section 6. - Divert wheel wash wastewater into ECM facilities for reuse as wheel washing. - Provide designated concrete washout containers and position them well away from any streams or watercourses. - Collect all washout water for off-site disposal through licensed waste treatment contractors.	Slight Negative	Daily Environmental Inspection	- Contractor PM - ECO

Environmental Aspect	Receptor		Potential Impact		Recommended Mitigation Measures	Residual Impact Significance	Recommended Monitoring (to be Further Reviewed during EMMP Stage)	Resources and Responsible Party
	Sensitive Receiver	Value/ Sensitivity	Impact	Overall Impact Significance				
Water Quality	Waterbodies, aquatic habitats	National/ Medium	Sewage	Moderate Negative	Pre-construction/ Construction Phase - Implement surface water-specific minimum controls commonly adopted in Singapore for similar construction activities as given in Table 6-14 of Section 6. - Provide temporary sanitary facilities for on-site workers. - Provide training and awareness sessions to reinforce proper use of portable sanitary facilities for hygiene and environmental protection. - Conduct regular waste clearance from temporary sanitary facilities, sited for easy access by NEA-licensed portable toilet service providers for scheduled servicing, including sewage collection and disposal.	Slight Negative	- Daily Environmental Inspection - Regular inspection of sanitary services log.	- Contractor PM - ECO
Ambient Noise	Human receiver at NSR1	Outside local/ Medium	Noise from demolition during daytime (L_{Aeq} 12 hours)	Minor Negative	- Noise barriers are recommended to be erected along the Project boundary (refer Figure 7-3 to Figure 7-5). - Noise barriers should be with a minimum of Sound Transmission Class (STC) 20, to be effective to reduce noise level for ground-dwelling fauna. - Additional engineering control measures such as enclosures, noise screens/ noise panels: - Enclosure at stationary PME such as generators with sufficient height and width to accommodate for machinery/equipment housed within. The proposed enclosures may achieve noise level reduction of at least 15 dBA (Table F.3 of SS 602: 2014). - Noise screens/ noise panels at moveable PME such excavators and crawlers/ mobile cranes should be of sufficient height and width to shield the noisy parts. The proposed screening may achieve noise level reductions of at least 7 dBA (Table F.3 of SS 602: 2014). - Portable noise barriers at construction activities e.g., soil investigation drilling activities, road and drainage work which are close to the site boundary. The proposed portable noise barrier may achieve noise level reductions of at least 7 dBA (Section F.3.3.4 of SS 602: 2014). - Quieter construction methodology such as the use of diamond wire saw cutters can achieve up to 30 dBA of noise reduction (based on LTA's Noise Guidance: Developing a Noise Management Plan). - Contractor to prepare a noise management plan (NMP) with the finalised construction method, schedule and equipment sound power levels to reconfirm the noise impact to fauna receivers are within acceptable ranges. The suggested NMP template is indicted in Annex H of SS 602: 2014. - Contractor to use engineering methodology to control noise at source, such as: - Noise enclosures to cover stationary PME such as generator. - Noise screens/ noise panels to partially shield noise generated from noisy PME such as cranes and excavators.	Minor Negative	Conduct continuous real time noise monitoring using Type 1 sound level meter with data logging at the affected NSR. When the noise level exceeds the maximum baseline ambient noise level, the contractor should investigate and apply appropriate mitigation measures. Recommended monitoring locations: noise meters to be located at site boundary adjacent to forested areas for entire construction period.	- Contractor PM - ECO
	Human receiver at NSR2	Outside local/ Medium		Minor Negative		Slight Negative		
	Human receiver at NSR3 and NSR4	Outside local/ Medium		Minor Negative		Minor Negative		
	Human receiver at NSR5 and NSR6	Outside local/ Medium		Minor Negative		Slight Negative		
	Fauna receiver at NSR7	Outside local/ Medium		Moderate Negative		Slight Negative		
	Fauna receiver at NSR8	Outside local/ Medium		Moderate Negative		Slight to Minor Negative		
	Fauna receiver at NSR9	Outside local/ Medium		Moderate Negative		Slight Negative		
	Fauna receiver at NSR10	Outside local/ Medium		Moderate Negative		Slight to Minor Negative		

Environmental Aspect	Receptor		Potential Impact		Recommended Mitigation Measures	Residual Impact Significance	Recommended Monitoring (to be Further Reviewed during EMMP Stage)	Resources and Responsible Party
	Sensitive Receiver	Value/ Sensitivity	Impact	Overall Impact Significance				
Ambient Noise	Human receiver at NSR1	Outside local/ Medium	Noise from pre-construction works during daytime (L _{Aeq} 12 hours)	Minor Negative	- Portable noise barriers for noisy construction activities. - Quieter construction methodology such as silent piers instead of vibratory piling, hydraulic splitters instead of concrete/ rock drilling - Contractor should plan the construction works to minimise noise sources onsite through optimisation of the construction sequence and methods, such as optimising vehicular access to minimise reversing of vehicles and making use of existing structures such as silos or site offices as noise shields to reduce noise transmission from noisy static equipment to the noise receivers. - Implement industry best practices: - Only well-maintained PME should be operated on-site and should be serviced regularly during construction. - The number of PMEs should be reduced as far as practicable when construction works are carried out in areas close to the fauna NSR. - Alternative equipment with less noise emission can be considered, such as the use of rubber mallets instead of metal hammers. - Care shall be taken during loading or unloading, dismantling, or moving materials to reduce noise impact. - Silencers or mufflers on PME (e.g., generator sets) should be utilised and should be properly maintained during construction. - Site mobile PME as far as practicable from the fauna NSR, and shut down or throttle down intermittently used equipment between work periods. - PME known to emit noise strongly in one direction should, whenever possible, be oriented so that the noise is directed away from the fauna NSR. - Noisy construction activities shall be avoided at night when the noise limits are more stringent.	Slight Negative	Conduct continuous real time noise monitoring using Type 1 sound level meter with data logging at the affected NSR. When the noise level exceeds the maximum baseline ambient noise level, the contractor should investigate and apply appropriate mitigation measures. Recommended monitoring locations: noise meters to be located at site boundary adjacent to forested areas for entire construction period.	- Contractor PM - ECO
	Human receiver at NSR2	Outside local/ Medium		Minor Negative		Slight Negative		
	Human receiver at NSR3	Outside local/ Medium		Minor Negative		Minor Negative		
	Human receiver at NSR4	Outside local/ Medium		Minor Negative		Minor Negative		
	Human receiver at NSR5	Outside local/ Medium		Minor Negative		Slight Negative		
	Human receiver at NSR6	Outside local/ Medium		Minor Negative		Slight Negative		
	Fauna receiver at NSR7	Outside local/ Medium		Moderate Negative		Slight Negative		
	Fauna receiver at NSR8	Outside local/ Medium		Moderate Negative		Slight to Minor Negative		
	Fauna receiver at NSR9	Outside local/ Medium		Moderate Negative		Slight Negative		
	Fauna receiver at NSR10	Outside local/ Medium		Moderate Negative		Slight Negative		
	Human receiver at NSR1	Outside local/ Medium	Noise from infrastructure works during daytime (L _{Aeq} 12 hours)	Minor Negative	- Consider limiting heavy construction working hours to 8 a.m. to 6 p.m. where possible to avoid the timings when crepuscular species may be active. Toolbox meetings and winding down of work can be done outside of these hours. - Implement progressive starting of loud construction activities to gradually increase noise levels for mobile fauna who have returned to roost during the night or are in the area to move away before noise levels get more intense. - Where night works are conducted, the minimal amount of equipment should be used to reduce noise levels. - Where night works are conducted, workers should refrain from shouting or using loud hailers aside from emergencies. Hand signals or walkie talkies can be employed instead.	Slight Negative		
	Human receiver at NSR2	Outside local/ Medium		Minor Negative		Slight Negative		
	Human receiver at NSR3	Outside local/ Medium		Minor Negative		Minor Negative		
	Human receiver at NSR4	Outside local/ Medium		Moderate Negative		Minor Negative		
	Human receiver at NSR5	Outside local/ Medium		Moderate Negative		Slight Negative		
	Human receiver at NSR6	Outside local/ Medium		Minor Negative		Slight Negative		

Environmental Aspect	Receptor		Potential Impact		Recommended Mitigation Measures	Residual Impact Significance	Recommended Monitoring (to be Further Reviewed during EMMP Stage)	Resources and Responsible Party
	Sensitive Receiver	Value/ Sensitivity	Impact	Overall Impact Significance				
Ambient Noise	Fauna receiver at NSR7	Outside local/ Medium	Noise from infrastructure works during daytime (L _{Aeq} 12 hours)	Moderate Negative		Slight Negative		
	Fauna receiver at NSR8	Outside local/ Medium		Moderate Negative		Slight to Minor Negative		
	Fauna receiver at NSR9	Outside local/ Medium		Moderate Negative		Slight Negative		
	Fauna receiver at NSR10	Outside local/ Medium		Moderate Negative		Minor Negative		
	Human receiver at NSR1	Outside local/ Medium	Noise from building works during daytime (L _{Aeq} 12 hours)	Minor Negative		Slight Negative		
	Human receiver at NSR2	Outside local/ Medium		Minor Negative		Slight Negative		
	Human receiver at NSR3	Outside local/ Medium		Minor Negative		Minor Negative		
	Human receiver at NSR4	Outside local/ Medium		Moderate Negative		Minor Negative		
	Human receiver at NSR5	Outside local/ Medium		Moderate Negative		Slight Negative		
	Human receiver at NSR6	Outside local/ Medium		Minor Negative		Slight Negative		
	Fauna receiver at NSR7	Outside local/ Medium		Moderate Negative		Slight Negative		
	Fauna receiver at NSR8	Outside local/ Medium		Moderate Negative		Slight to Minor Negative		
	Fauna receiver at NSR9	Outside local/ Medium		Moderate Negative		Slight Negative		
	Fauna receiver at NSR10	Outside local/ Medium		Moderate Negative		Minor Negative		

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