



Monthly EM&A Report (February 2025)

0185/21/ED/659 01

Sai O Trunk Sewer Sewage Pumping Station

Ref.: SHKSOSPSEM00_0_0121L.24

18 March 2025

By Fax (2827 0485)

Sun Hung Kai Properties Ltd.
42/F., Sun Hung Kai Centre
30 Harbour Road, Wan Chai, Hong Kong

Attention: Mr. Sunny Cheung

Dear Sir,

Re: Sai O Trunk Sewer Sewage Pumping Station
Environmental Permit No. EP-597/2021
Monthly EM&A Report (February 2025)

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for February 2025 (ET's ref.:0185/21/ED/0659 01) certified by the ET Leader and provided to us via e-mail on 14 March 2025.

We are pleased to inform you that we have no comments on the captioned submission. We write to verify the captioned submission in accordance with Condition 3.4 of EP-597/2021 and Section 12.4.1.1 of EM&A Manual for the captioned project.

Thank you very much for your attention and please feel free to contact the undersigned should you require further information.

Yours sincerely,
For and on behalf of
Ramboll Hong Kong Ltd.



Y H Hui
Independent Environmental Checker

c.c.	AECOM	Ms. Janice Tam / Mr. CK Man	(By Fax: 3894 5801)
	Fugro	Mr. Calvin Leung	(By Fax: 2450 6138)
	SGJV	Mr. Eddie Tse	(By Fax: 3894 5801)

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Document Control

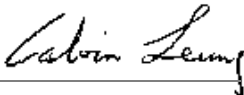
Document Information

Project Title	Sai O Trunk Sewer Sewage Pumping Station
Document Title	Monthly EM&A Report (February 2025)
Fugro Project No.	0185/21
Fugro Document No.	0185/21/ED/659 01
Issue Number	01

Client Information

Client	Light Time Investments Limited
Client Address	42/F, Sun Hung Kei Centre, 30 Harbour Road, Wan Chai, Hong Kong
Client Contact	Mr. Sunny Cheung

Environmental Team

Initials	Name	Role	Signature
MP	Calvin M.P. Leung	Environmental Team Leader	
JT	Jhomar P. Tillo	Ecologist	

EXECUTIVE SUMMARY

- i. This Monthly Environmental Monitoring and Audit (EM&A) Report is prepared for Sai O Trunk Sewer Sewage Pumping Station. Light Time Investments Limited has appointed Fugro Technical Services Limited (FTS) to undertake the Environmental Team services for the project and implement the EM&A works.
- ii. This is the 37th Monthly EM&A Report for the Project which summaries findings of the EM&A programme during the reporting period from 1st February 2025 to 28th February 2025.

Breaches of Environmental Quality Performance Limits (Action & Limit levels)

- iii. No Action and Limit Level exceedance was recorded for air quality and construction noise monitoring in the reporting month.
- iv. No corrective actions were required according to the Event-Action Plans.

Complaint Log

- v. No complaints were received in the reporting period.

Notifications of any Summons and Successful Prosecutions

- vi. No notifications of summons and prosecutions were received in the reporting period.

Reporting Change

- vii. There were no reporting changes during the reporting month.

Future Key Issues

- viii. The main works will be anticipated in the next month are as follow:

No main works are anticipated in the next month.

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1. INTRODUCTION

1.1 Background

- 1.1.1 The proposed Sai O Trunk Sewer Sewage Pumping Station (Sai O Trunk Sewer SPS) is a part of Public Works Programme Item 4125DS - Tolo Harbour Sewerage of Unsewered Areas, Stage II, is a core component of the proposed trunk sewerage system in Ma On Shan along Sai Sha Road. It is required to receive all sewage flows along Sai Sha Road from Kei Ling Ha Lo Wai to Cheung Muk Tau and the adjacent residential development, health care institution and education institutions, and then convey the sewage to Sha Tin Sewage Treatment Works.
- 1.1.2 Based on the latest design, the installed capacity per day of the proposed Sai O Trunk Sewer SPS is about 20,600m³ for coping with the sewerage needs of both existing and future developments. Location of the proposed Sai O Trunk Sewer SPS is shown in **Figure 1.1**.
- 1.1.3 The proposed Sai O Trunk Sewer SPS include the following main components:
- Loading/unloading bay
 - Inlet chamber
 - Coarse screen channel
 - Distribution chamber
 - Wet wells
 - Valve chamber
 - Emergency storage tank
 - Deodorizing unit
 - Switch room
 - Transformer room
- 1.1.4 The Project is a designated project under Schedule 2 of the Environmental Impact Assessment Ordinance (EIAO) (Cap. 499) for which Environmental Impact Assessment (EIA) report and Environmental Monitoring and Audit (EM&A) Manual was approved by EPD (Register No.: AEIAR-230/2021) on 4 June 2021. The Environmental Permit (EP) (EP No. EP-597/2021) was issued by EPD on 28 September 2021.
- 1.1.5 Fugro Technical Services Limited (FTS) has been appointed as the Environmental Team (ET) by Light Time Investments Limited to undertake the Environmental Team services for the Project and implement the EM&A works under Sai O Trunk Sewer Sewage Pumping Station (hereinafter referred as “the Project”).

- 1.1.6 This is the 37th Monthly EM&A report to document the findings of site inspection activities and EM&A programme for this project from 1st February 2025 to 28th February 2025 (reporting period) and is submitted to fulfil Condition 3.4 of the EP and Section 12.4 of the EM&A Manual. According to Condition 4 of the EP, electronic reporting is provided on the internet website to facilitate public inspection of the report.

1.2 Project Organization

- 1.2.1 The Project Organization structure is shown in **Appendix A**. The key personnel contact names and numbers are summarized in **Table 1.1**.

Table 1.1 – Contact Information of Key Personnel

Party	Position	Name	Telephone
Project Proponent (PP) (Light Time Investments Ltd.)	Senior Project Manager	Mr. Sunny Cheung	3894 5934
Engineer's Representative (ER) (AECOM Asia Co. Ltd.)	Senior Resident Engineer	Mr. C.K. Man	3894 5919
Independent Environmental Checker (IEC) (Ramboll Hong Kong Ltd.)	Independent Environmental Checker	Mr. Y.H. Hui	3465 2888
Contractor (Sanfield-Gammon Construction JV Company Ltd.)	Environmental Officer	Ms. Carrie Kwan	3894 5816
Environmental Team (ET) (Fugro Technical Services Ltd.)	Environmental Team Leader (ETL)	Mr. Calvin Leung	3565 4441

1.3 Construction Programme and Activities

1.3.1 The construction programme of this project is shown in **Appendix B**.

1.4 Works undertaken during the month

1.4.1 Major construction activities were undertaken in the reporting month were:

No construction works were undertaken in the reporting month.

Status of Environmental Licences, Notification and Permits

- 1.4.2 A summary of the relevant permits, licenses and/or notifications on environmental protection for this project is presented in **Table 1.2**.

Table 1.2 – Environmental Licenses, Notification and Permits Summary

Permit/ Notification/ License	Reference No	Valid From	Valid Till
Environmental Permit	EP-597/2021	28-Sep-2021	NA
Notification of Construction Works under APCO	494463	18-Apr-2018	31-Dec-2024
Billing Account under Construction Waste Disposal Charging Scheme	7031695	28-Aug-2018	NA
Effluent Discharge License under WPCO	WT00040139-2021	11-Mar-2022	31-Mar-2027
Chemical Waste Producer Registration	8334-741-S4115-01	14-Aug-2018	NA

Notes:

NA = Not Applicable

2. AIR QUALITY

2.1 Monitoring Requirement

- 2.1.1 In accordance with the EM&A Manual, 1-hour Total Suspended Particulates (TSP) levels should be measured at the designated air quality monitoring station to ensure that any deteriorating air quality could be readily detected and timely action shall be undertaken to rectify such situation. Impact 1-hour TSP monitoring was conducted for at least three times every 6 days when the highest dust impact occurs.

2.2 Monitoring Equipment

- 2.2.1 1-hour TSP air quality monitoring was performed using High Volume Sampler (HVS) deployed at the designated monitoring station. The HVS shall meet all the requirements of the EM&A Manual.
- 2.2.2 Wind data monitoring equipment is provided at the conspicuous locations for logging wind speed and wind direction near to the air quality monitoring location. The equipment installation location is agreed with the ER and the IEC.
- 2.2.3 The model of the air quality monitoring equipment used is summarized in **Table 2.1**.

Table 2.1 – Air Quality Monitoring Equipment

Item	Brand	Model	Equipment	Serial No.
1	Tisch	TE-5170 (TSP)	High Volume Sampler	HVS-05
		TE-300-310X	-Mass Flow Controller	3088
		TE-5005X	-Blower Motor Assembly	2083
		TE-5007X	-Mechanical Timer	5159
		TE-5009X	-Continuous Flow Recorder	5483
2	Global Water	GL500-7-2	Wind Station	WS-03
3	Tisch	TE-5025A	Calibration Kit	2456

2.3 Monitoring Parameters and Frequency

- 2.3.1 The parameters and frequencies of impact noise monitoring is summarized in **Table 2.2**.

Table 2.2 – Monitoring Parameters and Frequencies of Air Quality Monitoring

Parameter	Frequency
1-hour TSP	At least three times every 6 days when the highest dust impact occurs

2.4 Monitoring Methodology

HVS Installation

2.4.1 The following guidelines were adopted during the installation of HVS:

- i. A horizontal platform with appropriate support to secure the samplers against gusty wind shall be provided;
- ii. Two samplers shall be placed less than 2 meters apart;
- iii. The distance between the sampler and an obstacle, such as buildings, must be at least twice the height that the obstacle protrudes above the sampler;
- iv. A minimum of 2 metres of separation from walls, parapets and penthouses is required for rooftop samplers;
- v. A minimum of 2 metres of separation from any supporting structure, measured horizontally is required;
- vi. No furnace or incinerator flue is nearby;
- vii. Airflow around the sampler is unrestricted;
- viii. The sampler is more than 20 metres from the dripline;
- ix. Any wire fence and gate, to protect the sampler, shall not cause any obstruction during monitoring;
- x. Permission must be obtained to set up the samplers and to obtain access to the monitoring stations; and
- xi. A secured supply of electricity is needed to operate the samplers.

Operating / Analytical Procedures

- 2.4.2 Prior to the commencement of the dust sampling, the flow rate of the HVS shall be properly set. The flow rate shall be indicated on the flow rate chart. The power supply should be checked to ensure the proper functioning of the sampler. The sampler is recommended to be operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- 2.4.1 The filter holding frame should be removed by loosening the four nuts and placing carefully a weighted and conditioned filter at the centre with the stamped number upwards on a supporting screen.
- 2.4.2 The filter should be aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. The filter holding frame should be tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.

- 2.4.3 A programmed timer should be used to control the duration of operation. Information should be recorded on the record sheet, which included the starting time, the weather condition and the filter number.
- 2.4.4 After sampling process is finished, the filter should be removed and sent to the laboratory for weighting. The elapsed time should also be recorded.
- 2.4.5 All filter papers should be equilibrated in a conditioning environment for 24 hours before weighting. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than $\pm 3^\circ\text{C}$; the relative humidity (RH) should be $< 50\%$ and not vary by more than $\pm 5\%$. A convenient working RH is 40%.

2.5 Maintenance and Calibration

- 2.5.1 The high-volume motors and their accessories should be properly maintained, including routine motor brushes replacement and electrical wiring checking, to ensure that the equipment and a continuous power supply were in good working condition.
- 2.5.2 Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bimonthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually. The calibration certificate for the HVS is provided in **Appendix C**.

2.6 Monitoring Locations

- 2.6.1 In accordance with the EM&A Manual, air quality monitoring should be carried out at a designated monitoring location.
- 2.6.2 As limitation of stable electricity supply & safety concern could not be obtained from the designated dust monitoring location, an alternative monitoring location (CA_M1(a)) was proposed to measure 1-hour TSP levels in accordance with EP Condition 3.1 & Section 2.2.1.20 of the EM&A manual. The alternative monitoring location (CA_M1(a)) was approved by EPD on 15 December 2021.
- 2.6.3 The air quality monitoring location summarised in **Table 2.3** and shown in **Figure 2.1**.

Table 2.3 – Air Quality Monitoring Locations

Monitoring Location ID	Location
CA_M1(a)	Construction Site Boundary near Hong Kong Baptist Theological Seminary (HKBTS) Staff & Students Quarters

2.7 Monitoring Results

- 2.7.1 The schedule of air quality monitoring in reporting month is provided in **Appendix D**.
- 2.7.2 The monitoring data of 1-hr TSP are summarized in **Table 2.4**. The Detailed air quality monitoring results & graphs are presented in **Appendix E** & **Appendix F** respectively.

Table 2.4 – Summary of Air Quality Monitoring Results

Monitoring Station	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
1-hour TSP				
CA_M1(a)	80.7	36.1 – 131.8	339	500

- 2.7.3 No Action and Limit level exceedance was recorded in the reporting month.
- 2.7.4 No effect that arose from the other special phenomena and work progress of the concerned site was noted during the current monitoring month.
- 2.7.5 The Action and Limit Levels for impact air quality monitoring have been set and are presented in **Appendix G**.
- 2.7.6 The Event and Action Plan for Air Quality is given in **Appendix H**.
- 2.7.7 The weather conditions during the monitoring are provided in **Appendix I**.
- 2.7.8 The wind data obtained from the on-site wind station during the reporting period is provided in **Appendix J**.

3. NOISE

3.1 Monitoring Requirement

- 3.1.1 In accordance with the EM&A Manual, Leq (30min) monitoring is conducted at least once a week when there are Project-related construction activities being undertaken within a radius of 300 m from the monitoring stations. The monitoring is conducted during the construction phase between 0700 and 1900 on normal weekdays at the designated monitoring locations.

3.2 Monitoring Equipment

- 3.2.1 As referred to the requirements of the Technical Memorandum (TM) issued under the NCO, the sound level meters in compliance with the International Electro technical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications should be used for carrying out the noise monitoring. Immediately prior to and following each noise measurement, the accuracy of the sound level meter should be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. The measurements may be accepted as valid only if the difference between calibration levels obtained before and after the noise measurement is less than 1.0 dB (94 dB $\pm$ 0.1 dB).
- 3.2.2 The model of the noise monitoring equipment used is summarized in **Table 3.1**.

Table 3.1 – Construction Noise Monitoring Equipment

Item	Brand	Model	Equipment	Serial No.
1	Casella	CEL-633A	Integrating Sound Level Meter	2206937
2	Casella	CEL-120/1	Calibrator	2383687
3	Smart Sensor	AR816	Anemometer	AM-001

3.3 Monitoring Parameters and Frequency

- 3.3.1 The parameters and frequencies of impact noise monitoring is summarized in **Table 3.2**.

Table 3.2 – Monitoring Parameters and Frequencies of Noise Monitoring

Parameter	Frequency
L _{Aeq} (30 min) (L ₁₀ and L ₉₀ will be recorded for reference)	At each station at 0700-1900 hours on normal weekdays at a frequency of once a week when construction activities are underway

3.4 Monitoring Methodology

3.4.1 Noise measurement should be conducted as the following procedures:

- The monitoring station will set at a point 1m from the exterior of the sensitive receivers building façade and set at a position 1.2m above the ground. (In case façade measurement is not feasible on-site, a free field correction of +3dB(A) will be applied.)
- The battery condition was checked to ensure good functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time will set as follows:
 - frequency weighting: A
 - time weighting: Fast
 - measurement time: 30 minutes
- Prior to and after noise measurement, the meter shall be calibrated using the calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement will be considered invalid and repeat of noise measurement is required after re-calibration or repair of the equipment.
- Noise measurement should be paused during periods of high intrusive noise if possible and observation shall be recorded when intrusive noise is not avoided.
- Noise measurements shall not be made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s. Calibration certificate of the anemometer is provided in **Appendix C**.

3.5 Maintenance and Calibration

3.5.1 Maintenance and calibration procedures should also be carried out, including:

- The microphone head of the sound level meter and calibrator should be cleaned with a soft cloth at quarterly intervals.
- The sound level meter and calibrator should be calibrated annually by a HOKLAS laboratory.
- Relevant calibration certificates are provided in **Appendix C**.

3.6 Monitoring Locations

3.6.1 In accordance with the EM&A Manual, noise monitoring should be carried out at 2 designated monitoring locations.

3.6.2 The noise monitoring locations are summarised in **Table 3.3** and shown in **Figure 3.1**.

Table 3.3 – Construction Noise Monitoring Location

Monitoring Location ID	Location	Measurements
CN_M1	In front of the HKBTs Staff & Students Quarters	Free Field
CN_M2	In front of the HKBTs Administration and Education Block	Façade

Note: Correction of +3 dB(A) shall be made to the free field measurements.

3.7 Monitoring Results

3.7.1 The schedule of noise monitoring in reporting month is provided in **Appendix D**.

3.7.2 The noise monitoring data are summarized in **Table 3.4**. The Detailed noise monitoring results & graphs are presented in **Appendix E** & **Appendix F** respectively.

Table 3.4 – Summary of Construction Noise Monitoring Results

Frequency and Period	Location	Corrected L _{Aeq}		Action Level	Limit Level
		Range (dB(A))	Average (dB(A))		
0700-1900 hours in normal weekdays LAeq (30min)	CN_M1	61.6 – 63.7	62.9	When one documented complaint is received	70dB(A) during normal teaching period and examination periods 65 dB(A) during
	CN_M2	58.2 – 59.3	58.7		

Remark:

1. CN_M1: Free-field measurement (+3 dB(A) correction has been applied).

3.7.3 No Action / Limit Level exceedance of location CN_M1 & CN_M2 was recorded for construction noise in the reporting month.

3.7.4 Construction Noise and Road traffic noise along Nin Ming Road was observed at CN_M1 & CN_M2 during the monitoring month. No effect that arose from the other special phenomena was noted during the current monitoring month.

3.7.5 The Action and Limit Levels for Construction Noise have been set and are presented in **Appendix G**.

3.7.6 The Event and Action Plan for Construction Noise is given in **Appendix H**.

3.7.7 No raining and wind with speed over 5 m/s was observed during noise monitoring according to the onsite observation. The weather conditions during the monitoring month are provided in **Appendix I**.

3.8 Comparison of Noise Monitoring data with EIA Predictions

3.8.1 The noise monitoring data was compared with the EIA predictions as summarized in **Table 3.5**.

Table 3.5 – Comparison of Noise monitoring data with EIA predictions

Monitoring Station	EIA ID	Maximum Predicted Mitigated Construction Noise Level L _{eq} (30min) dB(A)	Maximum Construction Noise Level in January 2025 L _{eq} (30min) dB(A)
CN_M1	N1b	72	63.7
CN_M2	N2	66	59.3

Notes:

Predicted Construction Noise Levels extracted from Table 4.8 of EIA Report, AEIAR-230/2021

3.8.2 The construction noise monitoring results at CN_M1 and CN_M2 were below the Maximum Predicted mitigated Construction Noise Level in the approved Environmental Impact Assessment (EIA) Report (Register No.: AEIAR-230/2021).

4. SITE INSPECTION AND AUDIT

4.1 Site Inspection

- 4.1.1 Site audits were carried out by ET on weekly basis to monitor the implementation of proper environmental management practices and mitigation measures in the Project site.
- 4.1.2 In the reporting month, 4 site inspections were carried out on 3, 12, 17, and 24 February 2025.
- 4.1.3 No outstanding issues were reported during the reporting month. The Site Environmental Audit are summarized in **Appendix K**.

4.2 Advice on the Solid and Liquid Waste Management Status

- 4.2.1 The Contractor registered as a chemical waste producer for the Contract. Sufficient numbers of receptacles were available for general refuse collection and sorting.
- 4.2.2 The monthly summary of waste flow table is detailed in **Appendix L**.
- 4.2.3 If off-site disposal is required, the excavated marine mud from the land-based works shall be disposed of at the designated disposal sites within Hong Kong as allocated by the Marine Fill Committee or other locations as agreed by the Director. The Contractor shall ensure no spilling and overflowing of materials during loading / unloading / transportation is allowed.
- 4.2.4 The Contractor was reminded that chemical waste should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packing, Labelling and Storage of Chemical Waste.

5. NON-COMPLIANCE, COMPLAINTS, NOTIFICATIONS OF SUMMONS AND SUCCESSFUL PROSECUTIONS

5.1 Non-compliance (Exceedances of Action & Limit levels)

- 5.1.1 No Action and Limit Level exceedance was recorded for 1-hr TSP level at CA_M1(a) in the reporting month.
- 5.1.2 No Action / Limit Level exceedance was recorded for construction noise at CN_M1 & CN_M2 in the reporting month.

5.2 Complaints, Notification of Summons and Prosecution

- 5.2.1 No environmental complaint, notification of summons and successful prosecution were received in the reporting month.
- 5.2.2 Cumulative complaint log, summaries of complaints, notification of summons and successful prosecutions are presented in **Appendix M**.
- 5.2.3 No corrective actions were required.

6. IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURE

6.1 Implementation Status

The Contractor had implemented environmental mitigation measures and requirements as stated in the EIA Report, the EP and EM&A Manual. **Appendix N** summarized the Implementation Status of Environment Mitigation Measures.

7. FUTURE KEY ISSUES

7.1 Construction Programme for the Next Month

No construction works for the next month.

7.2 Key Issues for the Coming Month

- 7.2.1 Potential environmental impacts arising from the above construction activities are mainly associated with construction dust, construction noise, waste management, and landscape and visual impact issues.

7.3 Monitoring Schedules for the Next Month

- 7.3.1 The tentative schedule for environmental monitoring in the coming month is provided in **Appendix D**.

8. CONCLUSION AND RECOMMENDATION

8.1 Conclusions

- 8.1.1 1-hour TSP impact monitoring was carried out in the reporting month. No Action and Limit Level exceedance was recorded in the reporting month.
- 8.1.2 Construction noise monitoring was carried out in the reporting month. No Action / Limit Level exceedance at CN_M1 & CN_M2 was recorded during the period.
- 8.1.3 Four environmental site inspections were carried out in the reporting month. No recommendation on mitigation measures was given to the Contractor for remediating the deficiencies identified during the site inspections.
- 8.1.4 Two landscape and visual site audits were carried out in the reporting month. No Recommendations on mitigation measures for Permit/ Licenses were given to the Contractor for remediating the deficiencies identified during the site inspections.
- 8.1.5 Referring to the Contractor's information, no environmental complaint, notification of summons and successful prosecution was received in the reporting month.

8.2 Comment and Recommendations

- 8.2.1 The recommended environmental mitigation measures, as proposed in the EIA report and EM&A Manual shall be effectively implemented to minimize the potential environmental impacts from the Project. The EM&A programme would effectively monitor the environmental impacts generated from the construction activities and ensure the proper implementation of mitigation measures.

- 8.2.2 **According to the environmental site inspections performed in the reporting month, the following recommendations were provided:**

Air Quality Impact

- No specific observation was identified in the reporting month.

Construction Noise Impact

- No specific observation was identified in the reporting month.

Water Quality Impact

- No specific observation was identified in the reporting month.

Chemical Waste and Waste Management

- No specific observation was identified in the reporting month.

Landscape and Visual Impact

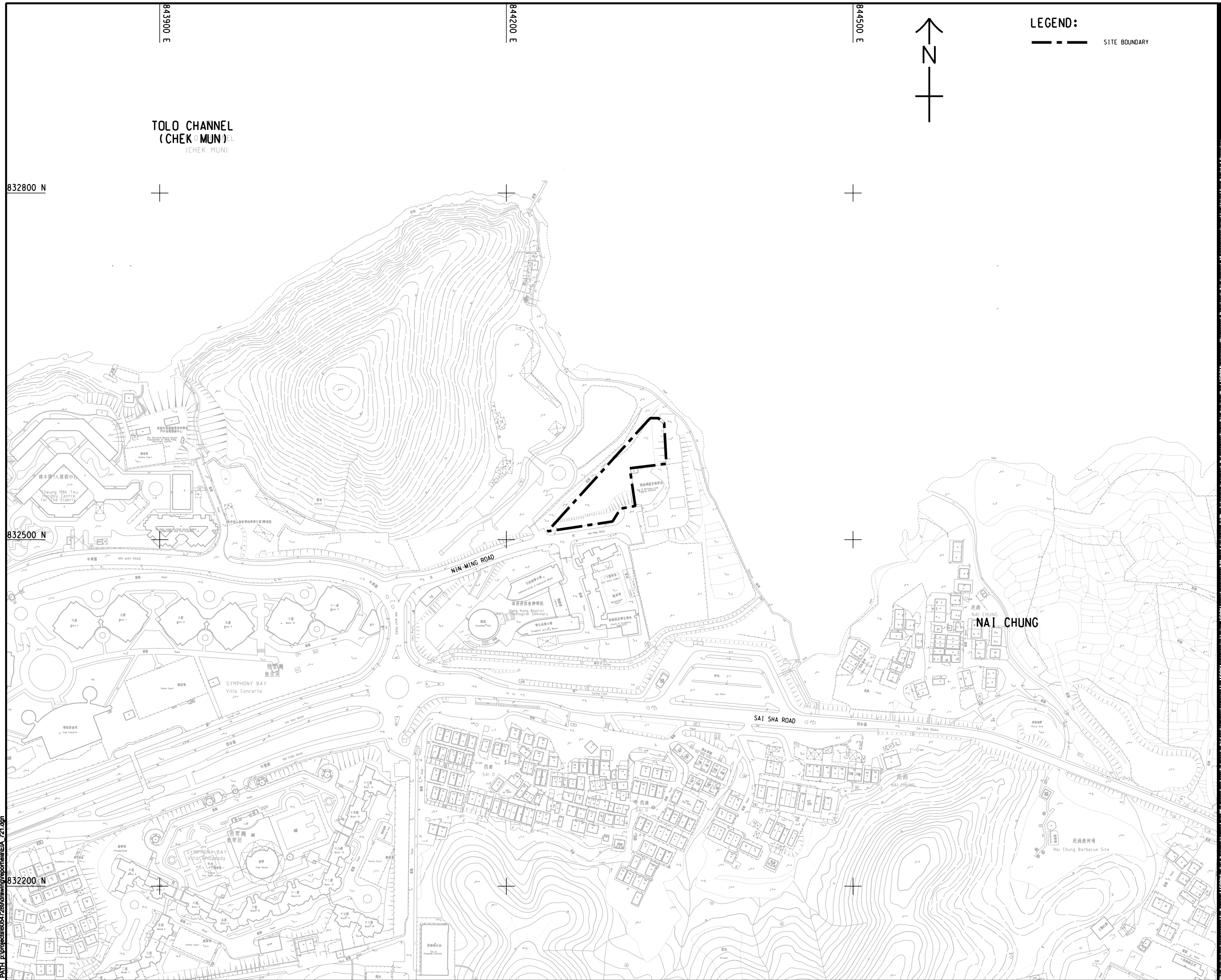
- No specific observation was identified in the reporting month.

Permit/ Licenses

- No specific observation was identified in the reporting month.

Figure 1.1

Location of the proposed Sai O Trunk
SPS



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PROJECT

**TOLO HARBOUR
SEWERAGE OF
UNSEWERED AREAS
STAGE 2 -
INVESTIGATION, DESIGN
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修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK 複核
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STATUS

SCALE

比例

A1 1 : 1500

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN

PROJECT NO.
項目編號

60547289

SHEET TITLE
圖紙名稱

LOCATION OF THE PROPOSED SAI O TRUNK SEWER SEWAGE PUMPING STATION

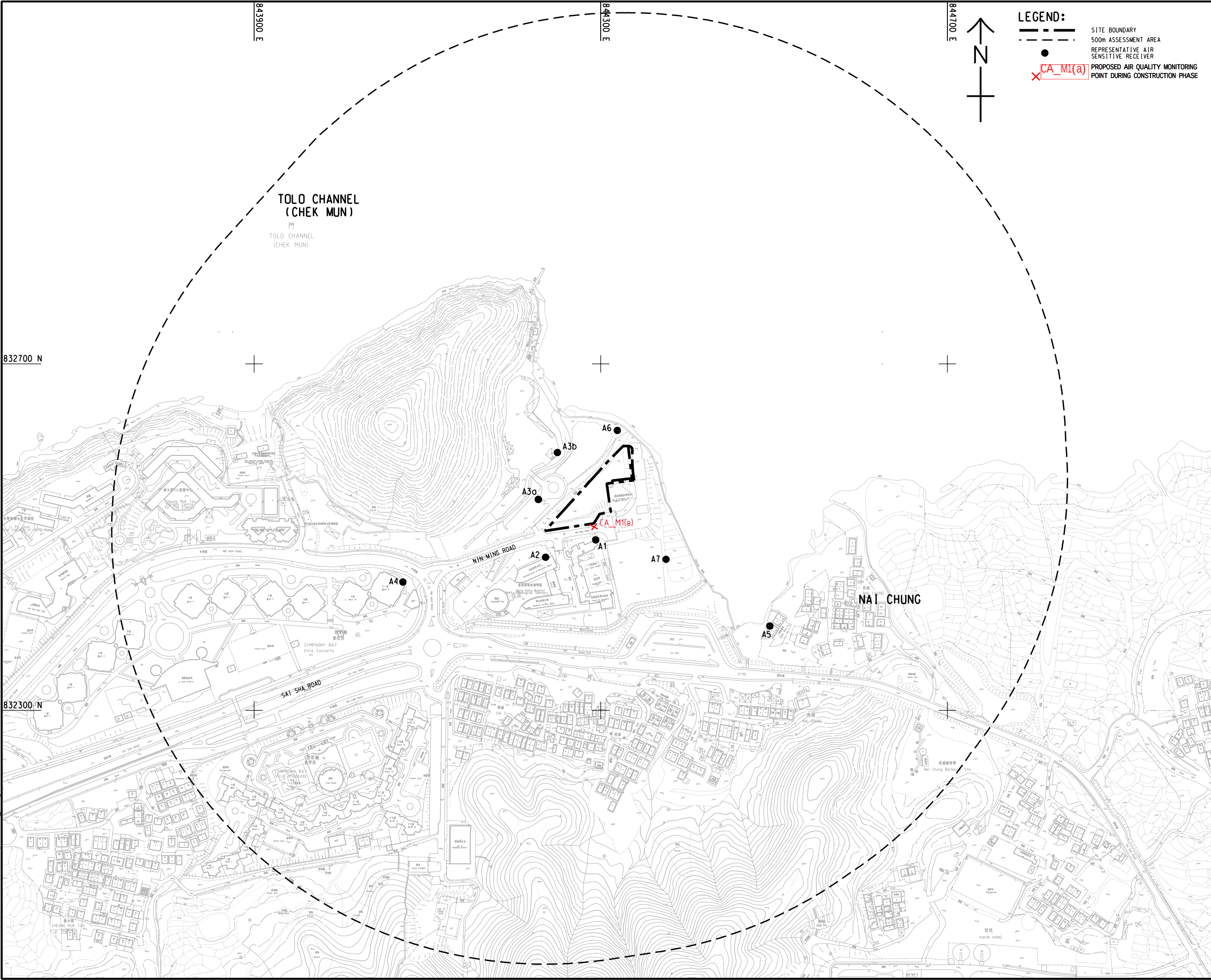
SHEET NUMBER
圖紙編號

60547289/EM&A/FIGURE 1.1

Figure 2.1

Air Quality Monitoring Location

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:
Plot File by: ZHUJUNZ 2020/12/21
PATH P:\PROJECTS\60547289\DRAWING\Report\EA\EA_731.dgn



LEGEND:

- SITE BOUNDARY
- 500m ASSESSMENT AREA
- REPRESENTATIVE AIR SENSITIVE RECEIVER
- X CA_M1(a) PROPOSED AIR QUALITY MONITORING POINT DURING CONSTRUCTION PHASE

AECOM

PROJECT
項目

TOLO HARBOUR SEWERAGE OF UNSEWERED AREAS STAGE 2 - INVESTIGATION, DESIGN AND CONSTRUCTION

CLIENT
業主

 **渠務署**
Drainage Services Department

CONSULTANT
工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS
分判工程顧問公司

ISSUE/REVISION			
修訂			
IR	DATE	DESCRIPTION	CHK.
修訂	日期	修改描述	校核
STATUS			
校核			
SCALE		DIMENSION UNIT	
比例		單位	
A1 1 : 2000		METRES	
KEY PLAN			
索引圖			

PROJECT NO.
項目編號

60547289

CONTRACT NO.
合約編號

SHEET TITLE
圖紙名稱

LOCATIONS OF PROPOSED DUST MONITORING POINT

SHEET NUMBER
圖紙編號

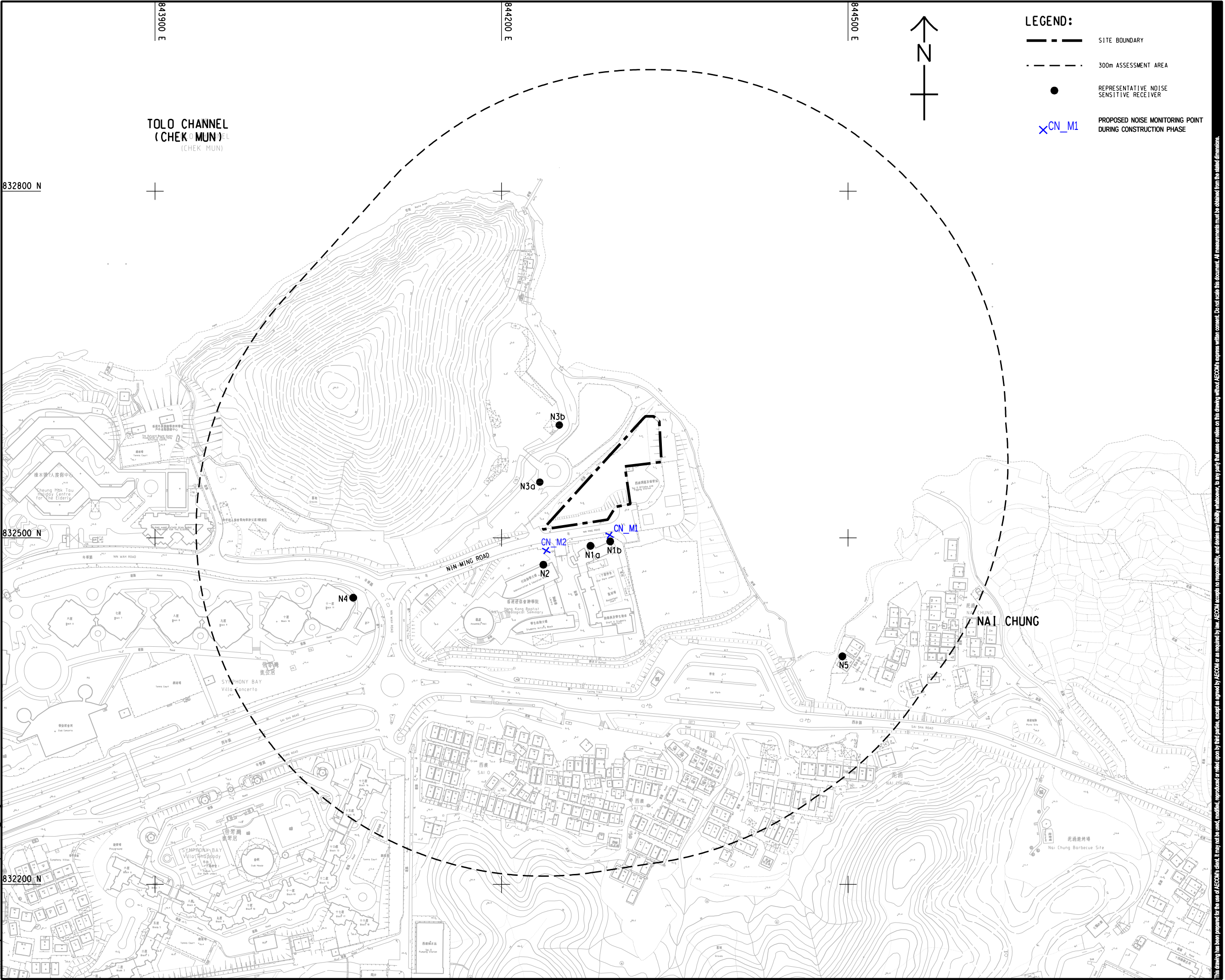
60547289/EM&A/FIGURE 2.1

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Figure 3.1

Noise Monitoring Locations

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:
Pld File by: ZHUNZ 2020/10/28
PATH P:\projects\60547289\DRAWING\Report\EM&A 741.dgn



LEGEND:

- SITE BOUNDARY
- - - 300m ASSESSMENT AREA
- REPRESENTATIVE NOISE SENSITIVE RECEIVER
- ✕CN_M1 PROPOSED NOISE MONITORING POINT DURING CONSTRUCTION PHASE

AECOM
PROJECT
TOLO HARBOUR
SEWERAGE OF
UNSEWERED AREAS
STAGE 2 -
INVESTIGATION, DESIGN
AND CONSTRUCTION
CLIENT
渠務署
Drainage Services Department

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SUB-CONSULTANTS

ISSUE/REVISION			
I/R	DATE	DESCRIPTION	CHK.
STATUS			
SCALE		DIMENSION UNIT	
比例		尺寸单位	
A1 1: 1500		METRES	
KEY PLAN			
索引图			

PROJECT NO.
项目编号
60547289

CONTRACT NO.
合约编号
60547289/EM&A/FIGURE 3.1

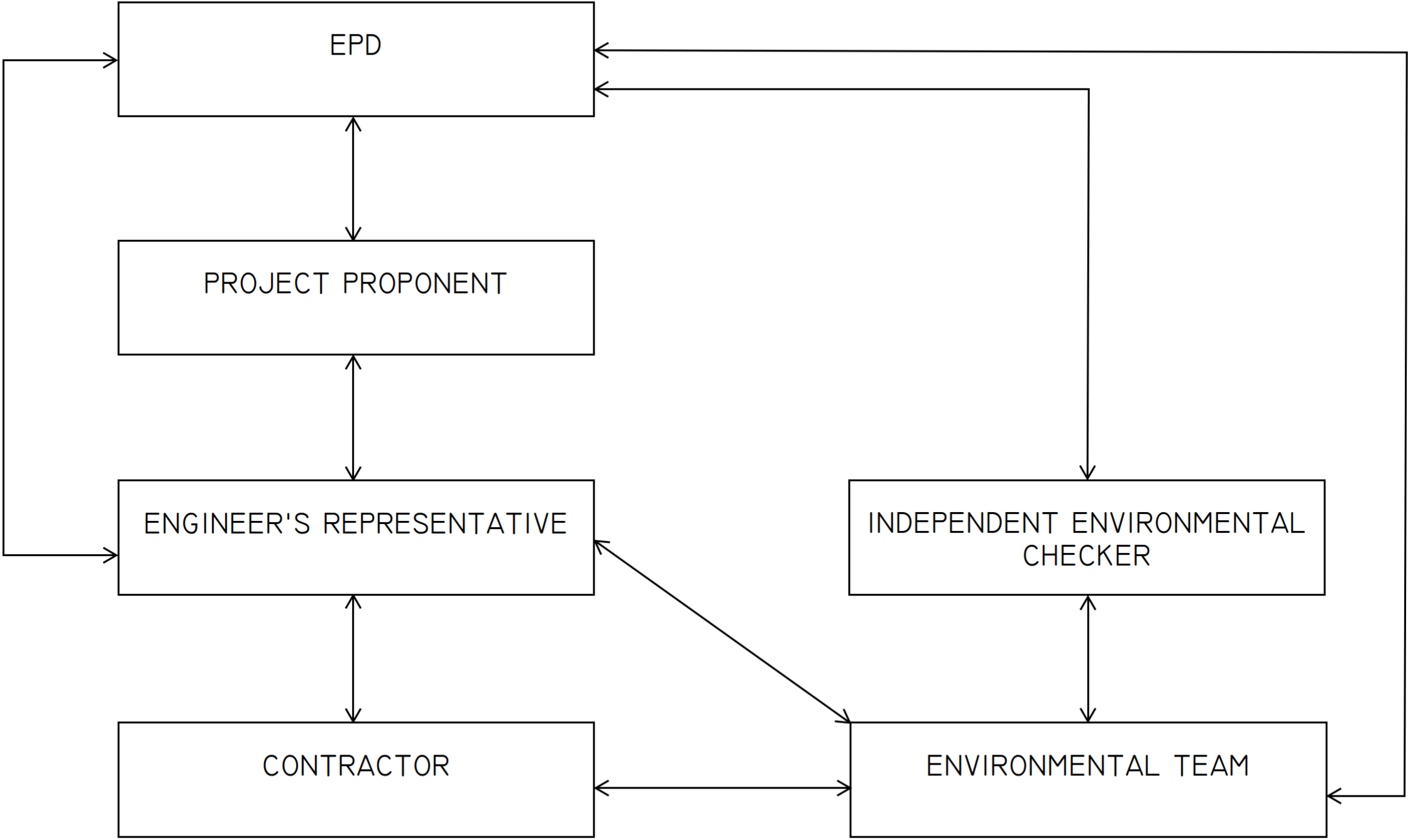
SHEET TITLE
图名
LOCATIONS OF PROPOSED NOISE
MOINTORING POINT

SHEET NUMBER
图幅编号

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Appendix A

Project Organization Chart



LEGEND:

↔ LINE OF COMMUNICATION

AECOM

PROJECT
项目

TOLO HARBOUR
SEWERAGE OF
UNSEWERED AREAS
STAGE 2 -
INVESTIGATION, DESIGN
AND CONSTRUCTION

CLIENT
業主

渠務署
Drainage Services Department

CONSULTANT
工程顧問公司

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分判工程顧問公司

ISSUE/REVISION
修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 校核

STATUS
階段

SCALE
比例

A1 1 : AS SHOWN

DIMENSION UNIT
尺寸單位

METRES

KEY PLAN
索引圖

PROJECT NO.
項目編號

60547289

CONTRACT NO.
合約編號

SHEET TITLE
圖紙名稱

PROJECT ORGANISATION

SHEET NUMBER
圖紙編號

60547289/EM&A/FIGURE 1.2

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Appendix B

Construction Programme

	Activity	Days	Start	Finish	2024																													
					June					July					August					September					per									
						02	09	16	23	30	07	14	21	28		04	11	18	25	01	08	15	22	29										
Master Programmme Rev.1																																		
Contractual Dates																																		
Completion Date (Programmed)																																		
KD1010	Section 1 - Completion of Sai Sha Road and Associated Works	0d		21-Jun-24 A																														
KD1040	Section 4 - Completion of Sai O Sewage Pumping Station	0d		24-Jun-24 A																														
Keydates (Target)																																		
KDT14	KD14 - Handover of Substantial Completed Works to Government (as agreed with differer	0d		30-Jun-24*																														
Keydates (Programmed)																																		
KD10	KD10 - Completion of Sai Sha Road Westbound	0d		21-Jun-24 A																														
KD12	KD12 - Completion of Sai O Pumping Station and Sewerage System	0d		24-Jun-24 A																														
Sai Sha Road & Associated Works (Section 1 of the Works)																																		
Area 1 - Sai Sha Road (R100: Ch100-280)																																		
Soft Landscaping Works																																		
SSR1810	Soft Lanscaping Works	42d	09-May-24 A	28-Jun-24 A																														
Area 2 - Sai Sha Road (R100: Ch280-450)																																		
Soft Landscaping Works																																		
SSR2810	Soft Lanscaping Works	36d	17-Apr-24 A	30-May-24 A																														
Area 3 - Sai Sha Road (R100: Ch450-800)																																		
Soft Landscaping Works																																		
SSR3810	Soft Lanscaping Works	36d	17-Apr-24 A	30-May-24 A																														
Areas 4 - Sai Sha Road (R100: Ch800-960)																																		
Soft Landscaping Works																																		
SSR4810	Soft Lanscaping Works	36d	02-May-24 A	14-Jun-24 A																														
Che Ha Road																																		
Section 3 - Village Junciton to End of Che Ha Road																																		
CHR0540	Waterworks and utilities	36d	02-May-24 A	14-Jun-24 A																														
CHR0550	Formation	36d	15-Jun-24 A	26-Jul-24																														
CHR0560	Roadworks	60d	27-Jul-24	04-Oct-24																														
Areas 5 - Sai Sha Road (R100: Ch960-1110)																																		
Soft Landscaping Works																																		
SSR5810	Soft Lanscaping Works	36d	02-May-24 A	14-Jun-24 A																														
Utilities Connection																																		
Waterworks																																		
UC1080	Waterwork Connection	52d	02-Apr-24 A	04-Jun-24 A																														
Area 7.1 - Access Road to Tin Liu Village																																		
Stage 3 - Roadworks																																		
TLR3150	Zone 1: Remove Temp. Road and Reinstate Area	24d	24-May-24 A	21-Jun-24 A																														
TLR3210	Zone 2: Drainage, 50m	52d	02-Apr-24 A	04-Jun-24 A																														
TLR3225	Zone 2: gasmain and telecom duct	24d	05-Jun-24 A	04-Jul-24																														
TLR3230	Zone 2: Roadworks	66d	05-Jul-24	20-Sep-24																														
TLR3240	Zone 2: Diversion to Permanent Road	1d	21-Sep-24	21-Sep-24																														
TLR3250	Zone 2: Remove Temp. Road and Reinstate Area	52d	23-Sep-24	21-Nov-24																														
Tseng Tau Road (Section 2 of the Works)																																		
Area 7.2 - Tseng Tau Road (R400: Ch100-250)																																		
Soft Landscaping Works																																		
TTR3010	Soft Lanscaping Works	18d	09-May-24 A	30-May-24 A																														
Sai O Pumping Station (Section 4)																																		
E&M Works and OP																																		
SOPS6050	FS inspection	58d	15-Apr-24 A	24-Jun-24 A																														
SOPS6060	Testing and Commissioning	49d	02-Apr-24 A	31-May-24 A																														
SOPS6070	OP inspection	6d	18-Jun-24 A	24-Jun-24 A																														

Appendix C

Equipment Calibration Certificates

Air Quality Monitoring Equipment

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Model: Tisch TE-5170		Date of Calibration: 21-Feb-25	
Equipment No.: HVS-05		Next Calibration Date: 22-May-25	
Location:		Technician: Yin Ho	

CONDITIONS			
Sea Level Pressure (hPa):	1022.40	Corrected Pressure (mm Hg):	767
Temperature (°C):	19.4	Temperature (K):	292

CALIBRATION ORIFICE			
Model: Tisch TE-5025A	Qstd Slope: 2.06365		
Serial No.: 2456	Qstd Intercept: -0.00869		
Calibration Date: 3-Jun-24	Expiry Date: 3-Jun-25		

CALIBRATIONS							
Plate No.	H2O (L) (in)	H2O (R) (in)	H2O (in)	Qstd (m³/min)	I (chart)	IC (corrected)	LINEAR REGRESSION
18	5.50	-5.40	10.900	1.627	66.00	66.93	Slope = 34.4190 Intercept = 10.6221 Corr. coeff.= 0.9989
13	4.30	-3.70	8.000	1.394	58.00	58.82	
10	3.10	-3.00	6.100	1.218	51.00	51.72	
7	2.20	-2.10	4.300	1.023	45.00	45.63	
5	1.40	-1.20	2.600	0.797	38.00	38.53	

Calculations:

Qstd = $1/m[\text{Sqrt}(\text{H2O}(\text{Pa}/\text{Pstd})(\text{Tstd}/\text{Ta})) - b]$

IC = $I[\text{Sqrt}(\text{Pa}/\text{Pstd})(\text{Tstd}/\text{Ta})]$

Qstd = standard flow rate

IC = corrected chart response

I = actual chart response

m = calibrator Qstd slope

b = calibrator Qstd intercept

Ta = actual temperature during calibration (deg K)

Pa = actual pressure during calibration (mm Hg)

Tstd = 298 deg K

Pstd = 760 mm Hg

For subsequent calculation of sampler flow:

$1/m[(I) [\text{Sqrt}(298/\text{Tav})(\text{Pav}/760)] - b]$

m = sampler slope

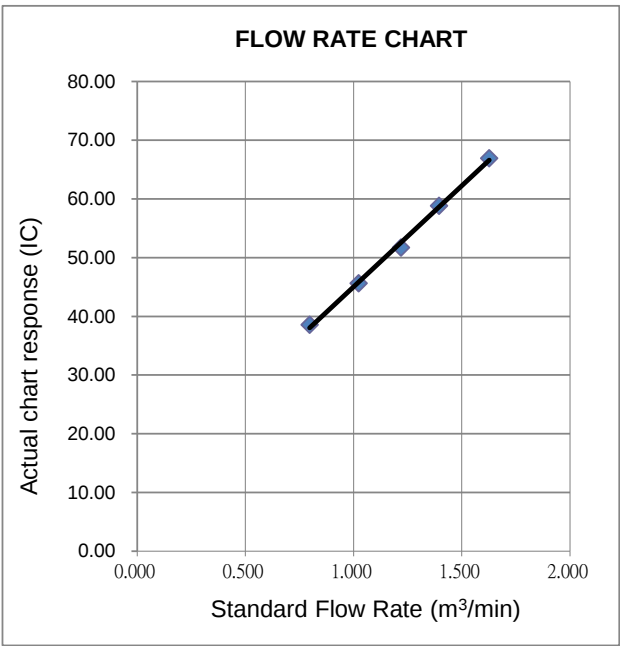
b = sampler intercept

I = chart response

Tav = daily average temperature

Pav = daily average pressure

FLOW RATE CHART



Standard Flow Rate (m³/min)	Actual chart response (IC)
0.8	38.53
1.0	45.63
1.2	51.72
1.4	58.82
1.6	66.93



RECALIBRATION

DUE DATE:

June 3, 2025

Certificate of Calibration

Calibration Certification Information

Cal. Date: June 3, 2024

Rootsmeter S/N: 438320

Ta: 295 °K

Operator: Jim Tisch

Pa: 756.4 mm Hg

Calibration Model #: TE-5025A

Calibrator S/N: 2456

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4460	3.2	2.00
2	3	4	1	1.0250	6.4	4.00
3	5	6	1	0.9100	7.9	5.00
4	7	8	1	0.8690	8.8	5.50
5	9	10	1	0.7170	12.8	8.00

Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)}$ (y-axis)
1.0011	0.6924	1.4180	0.9958	0.6886	0.8832
0.9969	0.9726	2.0054	0.9915	0.9674	1.2490
0.9949	1.0933	2.2421	0.9896	1.0874	1.3964
0.9937	1.1435	2.3515	0.9884	1.1374	1.4646
0.9884	1.3785	2.8361	0.9831	1.3711	1.7664
QSTD	m=	2.06365	QA	m=	1.29222
	b=	-0.00869		b=	-0.00541
	r=	0.99996		r=	0.99996

Calculations

Vstd=	$\Delta Vol((Pa-\Delta P)/Pstd)(Tstd/Ta)$	Va=	$\Delta Vol((Pa-\Delta P)/Pa)$
Qstd=	$Vstd/\Delta Time$	Qa=	$Va/\Delta Time$
For subsequent flow rate calculations:			
Qstd=	$1/m \left(\left(\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)} \right) - b \right)$	Qa=	$1/m \left(\left(\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)} \right) - b \right)$

Standard Conditions

Tstd: 298.15 °K

Pstd: 760 mm Hg

Key

ΔH: calibrator manometer reading (in H2O)

ΔP: rootsmeter manometer reading (mm Hg)

Ta: actual absolute temperature (°K)

Pa: actual barometric pressure (mm Hg)

b: intercept

m: slope

RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

CALIBRATION REPORT OF WIND METER

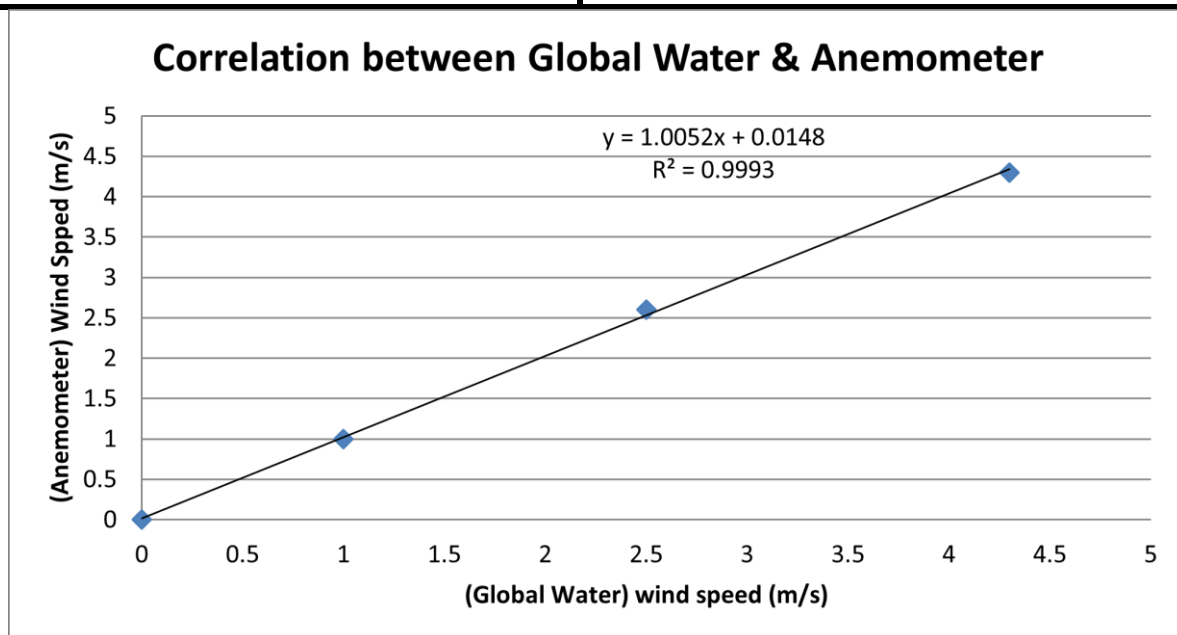
EP No.: EP-597/2021		Date of Calibration:	25-Feb-2025
Location: Sai O Trunk Sewer Sewage Pumping Station		Next Calibration Date:	24-May-2025
Brand: Global Water		Technician:	Billy Leung
Model: GL500-7-2	Equipment ID: WS-03		
Anemometer			
Brand: Smart Sensor			
Model: AR816	Equipment ID: AM-001		
Procedures:			
1. Wind Still Test:	The wind speed sensor was held by hand until stabilized.		
2. Wind Speed Test:	By direct comparison the reading between the wind speed sensor and the Anemometer.		
3. Wind Direction Test:	The wind meter was calibrated in-situ and compared with a marine compass from four directions.		

Wind Still Test:

Wind Speed (m/s)
0.00

Wind Speed Test:

Global Water (m/s)	Anemometer (m/s)
1.0	1.0
2.5	2.6
4.3	4.3



Remarks:

- Actual Wind Speed Value (m/s) = $1.0082 \times (\text{Reading of Global Water Instrument}) + 0.0607$
- Correlation coefficient (R^2) = 0.9918
- Acceptable Range: $R^2 \geq 0.99$



FUGRO TECHNICAL SERVICES LIMITED

Room 723 & 725, 7/F, Block B,
Profit Industrial Building,
1-15 Kwai Fung Crescent, Kwai Fong,
Hong Kong.

CALIBRATION REPORT OF WIND METER

Wind Direction Test:

	Marine Compass (o)
1	0
46	45
89	90
271	270

JHOMAR TILLO

Project Consultant/Ecologist

Report Date: 14/03/2025

Report No. : 240751CA240726(2)

Page 1 of 1

CALIBRATION CERTIFICATE OF ANEMOMETER**Client Supplied Information**

Client : Materialab Consultants Ltd

Project : Calibration Services

Details of Unit Under Test, UUT

Description : Anemometer

Manufacturer : TSI

Model No. : 9515

Serial No. : T95152317017

Equipment ID.: NA

Next Calibration Date : 01-Apr-2025

Laboratory Information

Details of Reference Equipment –

Description : Reference Anemometer

Equipment ID.: R-101-4

Date Receipt of UUT : 25-Mar-2024

Date of Calibration : 02-Apr-2024 Ambient Temperature : 22 °C

Calibration Location : Calibration Laboratory of FTS

Method Used : In-house Method R-C-279

Calibration Results :

Reference Reading (m/s)	UUT Reading (m/s)	Error (m/s)
2.0	2.0	0.0
4.0	4.3	0.3
6.0	6.4	0.4
8.0	8.5	0.5
10.0	10.5	0.5

Remarks :

1. The equipment being used in this calibration is traceable to recognized National Standards.
2. The expanded uncertainty is 0.5 m/s with a coverage factor of 2 at a confidence level of 95%.
3. The reported readings in this calibration are an average from 10 trials.

Checked by : 

Date : 8-4-2024

Certified by : 

Date : 8-4-2024

CA-R-297 (22/07/2009)

Leung Kwok Tai (Assistant Manager)

** End of Report **

Noise Monitoring Equipment

Report no.: 240751CA240542

Page 1 of 1

CALIBRATION CERTIFICATE OF SOUND LEVEL METER

Client Supplied Information

Client : Fugro Technical Services Ltd.

Project : Calibration Services

Details of Unit Under Test, UUT -

Description : Sound Level Meter
Manufacturer : Casella
Model No. :
Serial No. :
Equipment ID : N/A
Next Calibration Date : 17-Mar-2025
Specification Limit : EN 61672-1: 2003 Class 1
Next Calibration Date : 17-Mar-2025

Meter	Microphone	Preamplifier
CEL-633A	CE-251	CEL-495
2206937	04228	004030

Laboratory Information

Details of Reference Equipment -

Description : B & K Acoustic Multifunction Calibrator 4226 (Traditional free field setting)
Equipment ID. : R-108-1

Date of Receipt UUT : 01-Mar-2024

Date of Calibration : 18-Mar-2024

Calibration Location : Calibration Laboratory of FTS Ambient Temperature : 20±2 °C

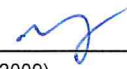
Method Used : By direct comparison Relative Humidity : <80% R.H.

Calibration Results :

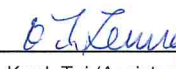
Parameters		Mean Value (dB)	Specification Limit(dB)
A-weighting frequency response	4000Hz	0.5	2.6 to -0.6
	2000Hz	1.1	2.8 to -0.4
	1000Hz	0.0	1.1 to -1.1
	500Hz	-3.4	-1.8 to -4.6
	250Hz	-8.7	-7.2 to -10.0
	125Hz	-16.1	-14.6 to -17.6
	63Hz	-26.2	-24.7 to -27.7
Differential level linearity	94dB-104dB	0.0	± 0.6
	104dB-114dB	0.0	± 0.6

Remarks :

1. The equipment used in this calibration is traceable to recognized National Standards.
2. The mean value is the average of four measurements.
3. For calibration: Reference SPL are 94, 104 & 114dB, range setting is 20-140dB & time weighting is fast
4. The UUT does comply with EN 61672-1: 2003 Class 1 sound level meter for the above measurement.
- 5 The values given in this Calibration Certificate only relate to unit under test and the values measured at the time of the test. Any uncertainties will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling or the capability of any other laboratory to repeat the measurement.

Checked by : 
CA-R-297 (22/07/2009)

Date : 24-2024

Certified by : 

Date : 3-4-2024

Leung Kwok Tai (Assistant Manager)

** End of Report **

Report no.: 240751CA240680(1)

Page 1 of 1

CALIBRATION CERTIFICATE OF SOUND CALIBRATOR**Client Supplied Information**

Client : Materialab Consultants Ltd.

Project : Calibration Services

Details of Unit Under Test, UUT -

Description : Sound Calibrator
Manufacturer : Casella (Model CEL-120/1)
Serial No. : 2383687
Equipment ID : N/A

Next Calibration Date : 24-Mar-2025

Specification Limit : EN 60942: 2003 Class 1

Laboratory Information

Details of Calibration Equipment -

Description : Reference Sound level meter
Equipment ID. : R-119-2
Date of Receipt : 18-Mar-2024
Date of Calibration : 25-Mar-2024
Calibration Location : Calibration Laboratory of FTS Ambient Temperature : 20±2 °C
Method Used : By direct comparison Relative Humidity : <80% R.H.

Calibration Results :

Parameters (Setting of UUT)	Mean Value (error of measurement)	Specification Limit(dB)
94dB	-0.2 dB	±0.4dB
114dB	0.0 dB	

Remarks :

1. The equipment used in this calibration is traceable to recognized National Standards.
2. The mean value is the average of four measurements.
3. The equipment under test does comply with the specification limit.
4. The values given in this Calibration Certificate only relate to the unit-under-test and the values measured at the time of the test. Any uncertainties quoted will not include allowances for the environmental changes, variation and shock during transportation, or the capability of any other laboratory to repeat the measurement.

Checked by : 

Date :

26-3-2024

Certified by :



Date :

27-3-2024

CA-R-297 (22/07/2009)

Leung Kwok Tai (Assistant Manager)

**** End of Report ****

Appendix D

Environmental Monitoring Schedule

Project: EP-597/2021 Sai O Trunk Sewer Sewage Pumping Station
Impact Air Quality & Noise Monitoring Schedule (February 2025)

Sun	Mon	Tue	Wed	Thur	Fri	Sat
						1
2	3 • Site Inspection	4 • AQM • NM	5	6	7	8
9	10 • AQM • NM	11	12 • Site Inspection	13	14	15 • AQM
16	17 • Site Inspection	18	19	20	21 • AQM • NM	22
23	24 • Site Inspection	25	26	27 • AQM • NM	28	

Remarks

- Actual monitoring may be subjected to change due to any safety concern or adverse weather condition;
- Air Quality Monitoring(AQM): 3 x 1-hours TSP Monitoring in every 6 days;
Monitoring Locations: CA_M1(a) Construction Site Boundary near Hong Kong Baptist Theological Seminary (HKBTS) Staff & Students Quarters
- Noise Monitoring(NM): one set of Leq (30 min) between 0700 and 1900 hours on normal weekdays once a week;
Monitoring Locations: CN_M1 In front of the HKBTS Staff & Students Quarters
Monitoring Locations: CN_M2 In front of the HKBTS Administration and Education Block
- Site Inspection: Once a week

Project: EP-597/2021 Sai O Trunk Sewer Sewage Pumping Station
Impact Air Quality & Noise Monitoring Schedule (March 2025)

Sun	Mon	Tue	Wed	Thur	Fri	Sat
						1
2	3 • Site Inspection	4 • AQM • NM	5	6	7	8
9	10 • Site Inspection • AQM • NM	11	12	13	14	15 • AQM
16	17	18	19	20 • Site Inspection	21 • AQM • NM	22
23	24 Site Inspection	25	26	27 • AQM • NM	28	29
30	31 • Site Inspection • NM					

Remarks

- Actual monitoring may be subjected to change due to any safety concern or adverse weather condition;
- Air Quality Monitoring(AQM): 3 x 1-hours TSP Monitoring in every 6 days;
Monitoring Locations: CA_M1(a) Construction Site Boundary near Hong Kong Baptist Theological Seminary (HKBTS) Staff & Students Quarters
- Noise Monitoring(NM): one set of Leq (30 min) between 0700 and 1900 hours on normal weekdays once a week;
Monitoring Locations: CN_M1 In front of the HKBTS Staff & Students Quarters
Monitoring Locations: CN_M2 In front of the HKBTS Administration and Education Block
- Site Inspection: Once a week

Appendix E

Air Quality & Construction Noise Monitoring Results

1-hr TSP Monitoring Results

Monitoring Location : CA_M1(a) Construction Site Boundary near Hong Kong Baptist Theological Seminary (HKBTS) Staff & Students Quarters

Start Date	Start Time	Weather Condition	Filter Identification No	Elapsed-Time Meter		Sampling Time (min)	Temperature (K)	Atmospheric Pressure (mmHg)	Filter Paper Weight			Flow Rate			Total Volume (m³)	Concentration			
				Start	Stop				Initial Weight	Final Weight	Particulate Weight	Initial	Final	Average		Value	Average	Action Level	Limit Level
4-Feb-25	9:00	Cloudy	M15596	6410.4	6411.4	60.0	287.7	766.7	2.8130	2.8166	0.0036	1.06	1.06	1.06	63.45	56.7	75.7	339	500
	10:04	Cloudy	M15595	6411.4	6412.4	60.0	287.7	766.7	2.7973	2.8026	0.0053	1.03	1.06	1.04	62.56	84.7			
	11:08	Cloudy	M15570	6412.4	6413.4	60.0	287.7	766.7	2.8087	2.8139	0.0052	1.00	1.03	1.01	60.78	85.6			
10-Feb-25	8:58	Fine	M15597	6413.4	6414.4	60.0	288.9	766.3	2.8122	2.8184	0.0062	1.02	1.05	1.04	62.37	99.4	94.0	339	500
	10:01	Fine	M15600	6414.4	6415.4	60.0	288.9	766.3	2.8150	2.8200	0.0050	1.02	1.05	1.04	62.37	80.2			
	11:05	Fine	M15598	6415.4	6416.4	60.0	288.9	766.3	2.8058	2.8121	0.0063	1.00	1.05	1.02	61.49	102.5			
15-Feb-25	9:00	Fine	M15634	6416.4	6417.4	60.0	291.5	761.8	2.7871	2.7897	0.0026	1.01	1.04	1.03	61.77	42.1	41.7	339	500
	10:00	Fine	M15633	6417.4	6418.4	60.0	291.5	761.8	2.7814	2.7840	0.0026	0.93	0.93	0.93	55.60	46.8			
	11:00	Fine	M15632	6418.4	6419.4	60.0	291.5	761.8	2.7949	2.7971	0.0022	0.99	1.04	1.01	60.89	36.1			
21-Feb-25	9:00	Fine	M15606	6419.4	6420.4	60.0	290.1	766.9	2.7918	2.7971	0.0053	0.93	0.96	0.95	56.91	93.1	101.2	339	500
	10:00	Fine	M15605	6420.4	6421.4	60.0	290.1	766.9	2.7989	2.8071	0.0082	1.05	1.02	1.04	62.23	131.8			
	11:00	Fine	M15607	6421.4	6422.4	60.0	290.1	766.9	2.8100	2.8149	0.0049	1.05	1.02	1.04	62.23	78.7			
27-Feb-25	9:10	Fine	M15609	6422.4	6423.4	60.0	291.7	764.3	2.7980	2.8033	0.0053	0.99	1.02	1.00	60.11	88.2	91.1	339	500
	10:14	Fine	M15610	6423.4	6424.4	60.0	291.7	764.3	2.8111	2.8171	0.0060	1.02	1.05	1.03	61.88	97.0			
	11:19	Fine	M15611	6424.4	6425.4	60.0	291.7	764.3	2.8011	2.8064	0.0053	0.99	1.02	1.00	60.11	88.2			
															Min	36.1			
															Max	131.8			
															Average	80.7			

Report No. : 240970EN250406



Page 1 of 1

Test Report on Analysis of Filters**Information Supplied by Client**

Client : Fugro Technical Services Ltd.

Client's address : 13/F, Fugro House – KCC2, No.1 Kwai On Road, Kwai Chung, N.T., H.K.

Project : Provision of ET Services for Sai O Trunk Sewer Sewage Pumping Station

Sample description : 3 samples of TSP filter paper

Sample identification : -

Sampling date : -

Test required : Provision of conditioned & tared filter paper and subsequent reconditioning and reweighing of returned filter paper for TSP monitoring

Laboratory Information

Filter paper I.D. : M15570, M15595, M15596

Date of receipt of sample : 12/02/2025

Date test completed : 13/02/2025

Test method used : USEPA Method 40 CFR Part 50 Appendix B.

Results :

Filter paper I.D.	Initial wt. of filter, g	Final wt. of filter, g
M15570	2.8087	2.8139
M15595	2.7973	2.8026
M15596	2.8130	2.8166

Supervised by : C.H. Chiu

Certified by :

Approved Signatory : HO Kin Man, John
Director

Date

** End of Report **

14/3/2025

Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.

Report No. : 240970EN250406(1)



Page 1 of 1

Test Report on Analysis of Filters**Information Supplied by Client**

Client : Fugro Technical Services Ltd.

Client's address : 13/F, Fugro House – KCC2, No.1 Kwai On Road, Kwai Chung, N.T., H.K.

Project : Provision of ET Services for Sai O Trunk Sewer Sewage Pumping Station

Sample description : 3 samples of TSP filter paper

Sample identification : -

Sampling date : -

Test required : Provision of conditioned & tared filter paper and subsequent reconditioning and reweighing of returned filter paper for TSP monitoring

Laboratory Information

Filter paper I.D. : M15597, M15598, M15600

Date of receipt of sample : 12/02/2025

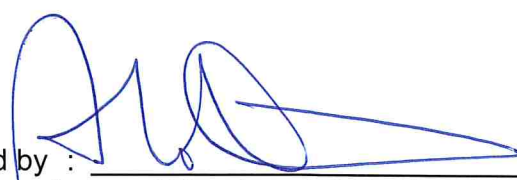
Date test completed : 13/02/2025

Test method used : USEPA Method 40 CFR Part 50 Appendix B.

Results :

Filter paper I.D.	Initial wt. of filter, g	Final wt. of filter, g
M15597	2.8122	2.8184
M15598	2.8058	2.8121
M15600	2.8150	2.8200

Supervised by : C.H. Chiu

Certified by : 
Approved Signatory : HO Kin Man, John
DirectorDate : 21/2/2025
** End of Report ***Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.*

Report No. : 240970EN250406(3)



Page 1 of 1

Test Report on Analysis of Filters**Information Supplied by Client**

Client : Fugro Technical Services Ltd.

Client's address : 13/F, Fugro House – KCC2, No.1 Kwai On Road, Kwai Chung, N.T., H.K.

Project : Provision of ET Services for Sai O Trunk Sewer Sewage Pumping Station

Sample description : 3 samples of TSP filter paper

Sample identification : -

Sampling date : -

Test required : Provision of conditioned & tared filter paper and subsequent reconditioning and reweighing of returned filter paper for TSP monitoring

Laboratory Information

Filter paper I.D. : M15632, M15633, M15634

Date of receipt of sample : 19/02/2025

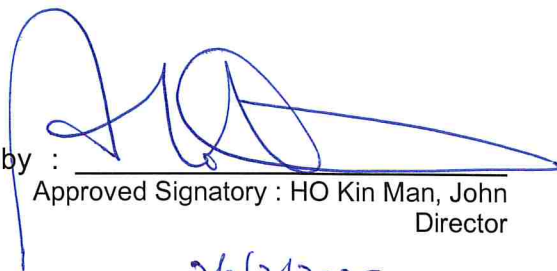
Date test completed : 20/02/2025

Test method used : USEPA Method 40 CFR Part 50 Appendix B.

Results :

Filter paper I.D.	Initial wt. of filter, g	Final wt. of filter, g
M15632	2.7949	2.7971
M15633	2.7814	2.7840
M15634	2.7871	2.7897

Supervised by : C.H. Chiu

Certified by : 
Approved Signatory : HO Kin Man, John
DirectorDate : 26/2/2025
** End of Report ***Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.*

Report No. : 240970EN250406(2)



Page 1 of 1

Test Report on Analysis of Filters**Information Supplied by Client**

Client : Fugro Technical Services Ltd.

Client's address : 13/F, Fugro House – KCC2, No.1 Kwai On Road, Kwai Chung, N.T., H.K.

Project : Provision of ET Services for Sai O Trunk Sewer Sewage Pumping Station

Sample description : 3 samples of TSP filter paper

Sample identification : -

Sampling date : -

Test required : Provision of conditioned & tared filter paper and subsequent reconditioning and reweighing of returned filter paper for TSP monitoring

Laboratory Information

Filter paper I.D. : M15605, M15606, M15607

Date of receipt of sample : 19/02/2025

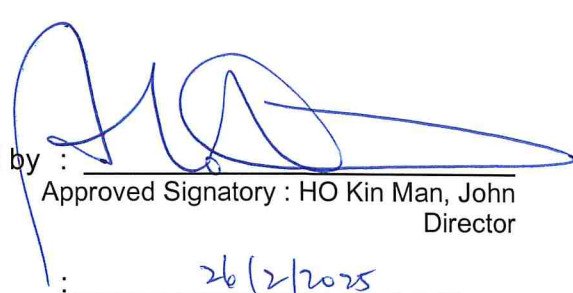
Date test completed : 20/02/2025

Test method used : USEPA Method 40 CFR Part 50 Appendix B.

Results :

Filter paper I.D.	Initial wt. of filter, g	Final wt. of filter, g
M15605	2.7989	2.8071
M15606	2.7918	2.7971
M15607	2.8100	2.8149

Supervised by : C.H. Chiu

Certified by : 
Approved Signatory : HO Kin Man, John
DirectorDate : 26/2/2025
** End of Report ***Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.*

Report No. : 240970EN250406(4)



Page 1 of 1

Test Report on Analysis of Filters**Information Supplied by Client**

Client : Fugro Technical Services Ltd.

Client's address : 13/F, Fugro House – KCC2, No.1 Kwai On Road, Kwai Chung, N.T., H.K.

Project : Provision of ET Services for Sai O Trunk Sewer Sewage Pumping Station

Sample description : 3 samples of TSP filter paper

Sample identification : -

Sampling date : -

Test required : Provision of conditioned & tared filter paper and subsequent reconditioning and reweighing of returned filter paper for TSP monitoring

Laboratory Information

Filter paper I.D. : M15609, M15610, M15611

Date of receipt of sample : 11/03/2025

Date test completed : 14/03/2025

Test method used : USEPA Method 40 CFR Part 50 Appendix B.

Results :

Filter paper I.D.	Initial wt. of filter, g	Final wt. of filter, g
M15609	2.7980	2.8033
M15610	2.8111	2.8171
M15611	2.8011	2.8064

Supervised by : C.H. Chiu

Certified by :

Approved Signatory : HO Kin Man, John
DirectorDate : 14/3/2025
** End of Report ***Note : This report refers only to the sample(s) tested and the result(s) applied to the sample(s) as received.*

Noise Monitoring Results

Monitoring Location : CN_M1 In front of the HKBTS Staff & Students Quarters

Date	Weather	Wind Speed (m/s)	Start Time	Noise Monitoring (30min)(dB(A))			
				Corrected Leq	Leq	L90	L10
4-Feb-25	Cloudy	0.6	9:10	61.6	58.6	51.5	61.0
10-Feb-25	Fine	0.7	9:07	63.5	60.5	52.5	63.0
21-Feb-25	Fine	0.9	10:24	63.7	60.7	58.0	62.5
27-Feb-25	Fine	0.1	9:19	62.4	59.4	51.5	62.0
			Average :	62.9			
			Baseline Level:	64.3			
			Action Level :	When one valid documented complaint is received			
			Limit Level :	70dB(A) for schools and 65dB(A) during school examination periods			

Monitoring Location : CN_M2 In front of the HKBTS Administration and Education Block

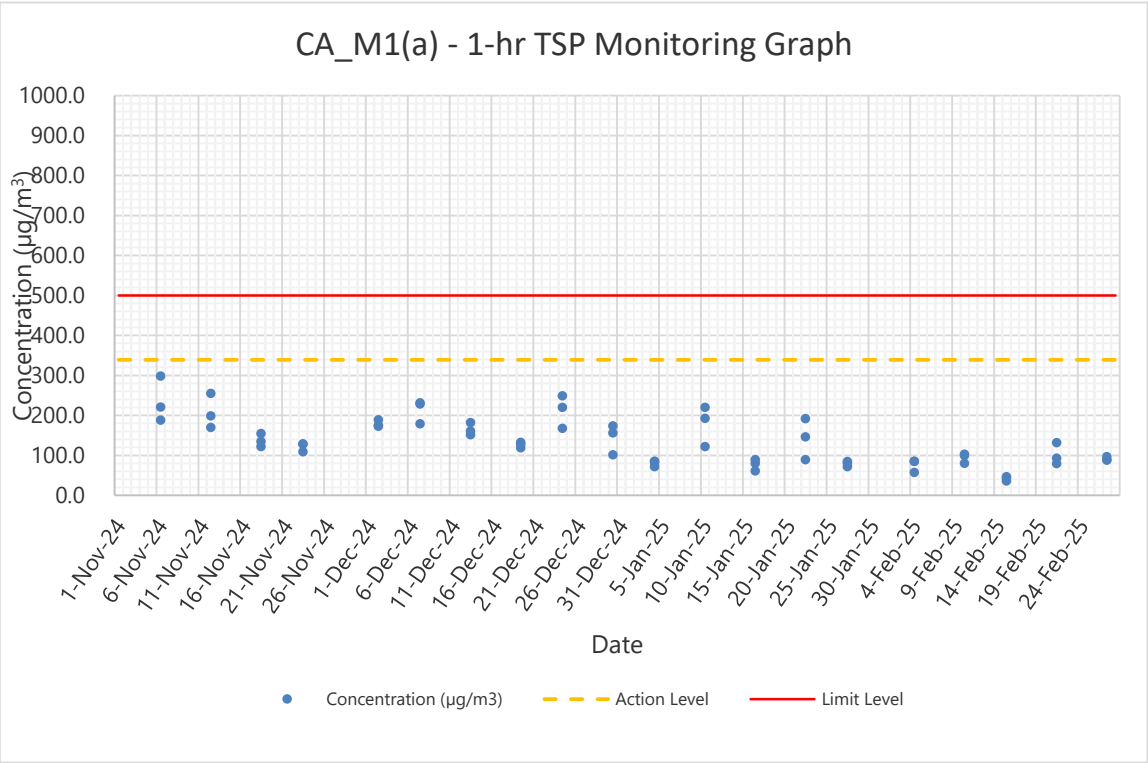
Date	Weather	Wind Speed (m/s)	Start Time	Noise Monitoring (30min)(dB(A))		
				Leq	L90	L10
4-Feb-25	Cloudy	0.4	9:47	58.2	50.5	59.5
10-Feb-25	Fine	0.3	9:48	59.3	50.8	61.0
21-Feb-25	Fine	1.1	11:11	58.6	54.5	60.5
27-Feb-25	Fine	0.0	19:12	58.8	51.0	60.5
			Average :	58.7		
			Baseline Level:	62.5		
			Action Level :	When one valid documented complaint is received		
			Limit Level :	70dB(A) for schools and 65dB(A) during school examination periods		

Remarks: 1. Noise results at CN_M1 were calculated by +3 dB (A) correction for free-field measurement.

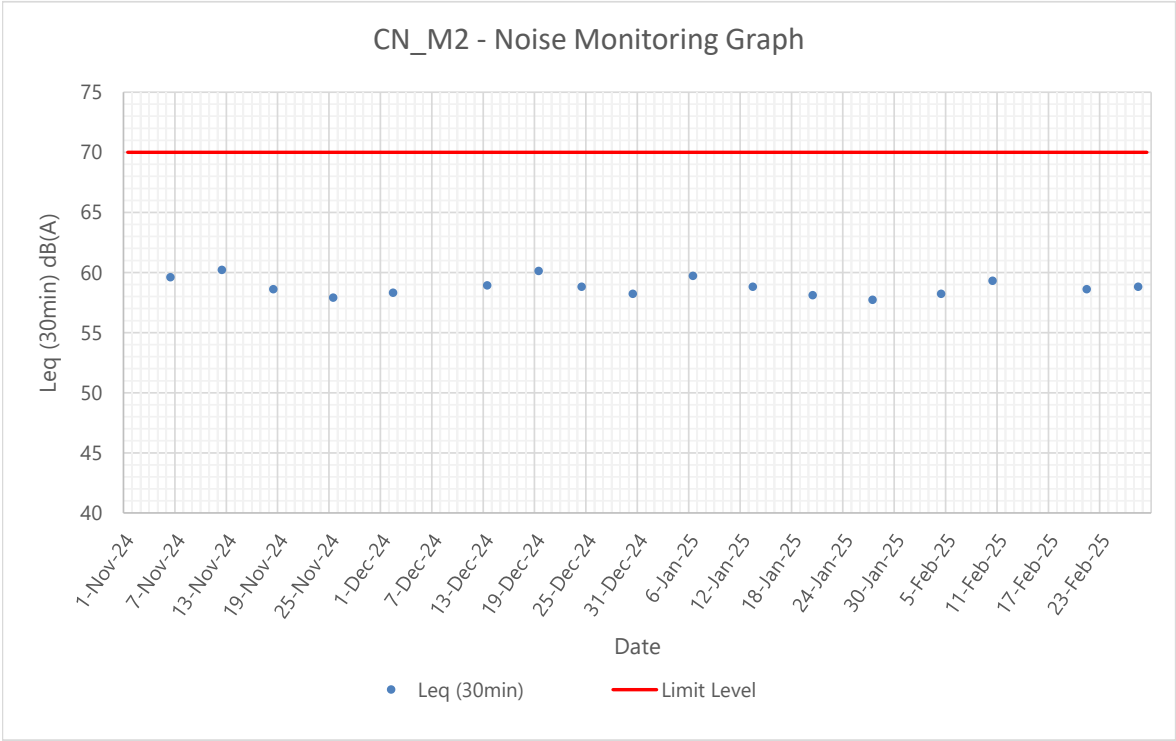
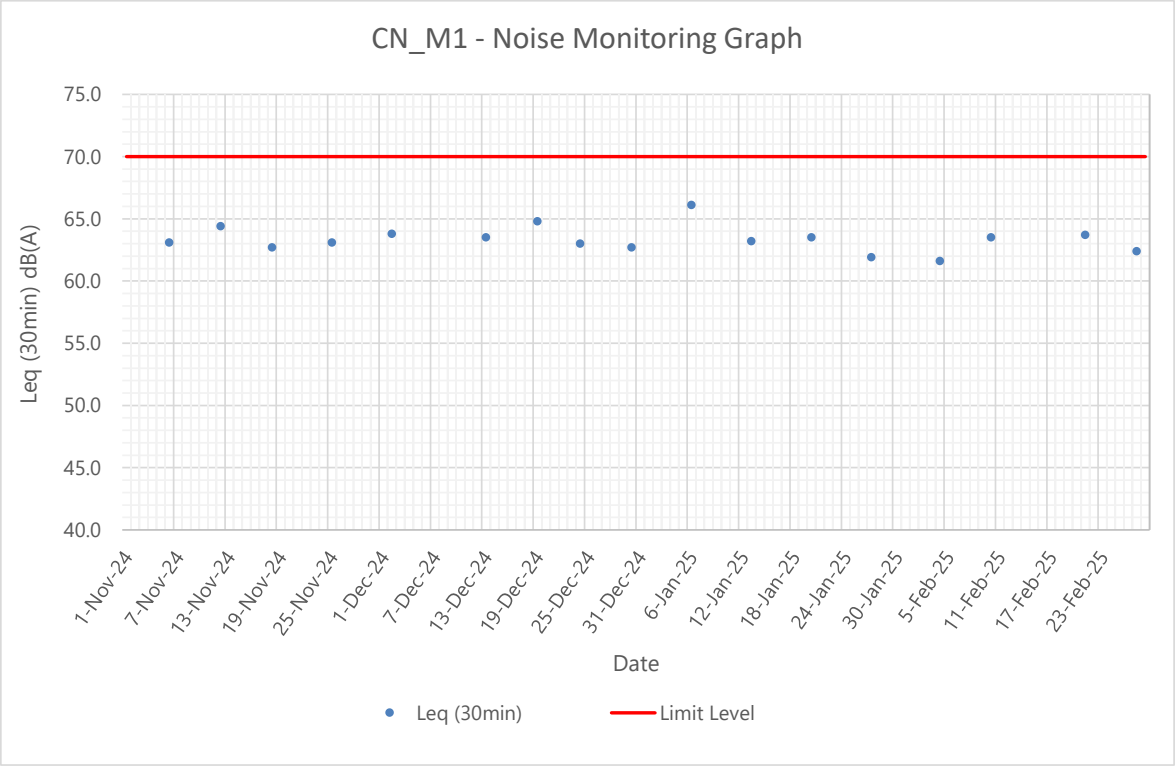
Appendix F

Air Quality & Construction Noise
Monitoring Graphs

1-hr TSP Monitoring Graph



Noise Monitoring Graph



Appendix G

Action and Limit Level

Action and Limit Levels for Air Quality

Monitoring Parameter	Monitoring Station	Action Level	Limit Level
1-hour TSP	CA_M1(a)	339 $\mu\text{g}/\text{m}^3$	500 $\mu\text{g}/\text{m}^3$

Action and Limit Levels for Construction Noise

Monitoring Parameter	Monitoring Station	Action Level	Limit Level
0700-1900 hours in normal weekdays LA_{eq} (30min)	CN_M1	When one documented complaint is received	70dB(A) during normal teaching period & 65 dB(A) during examination periods
	CN_M2		

Remark:

CN_M1: Free-field measurement (+3 dB(A) correction has been applied).

Appendix H

Event and Action Plan

Event and Action Plan for Air Quality (Construction Dust)

EVENT	ACTION			
	ET	IEC	ER	Contractor
Action level being exceeded by one sampling	1. Identify source, investigate the causes of complaint and propose remedial measures; 2. Inform Contractor, IEC and ER; 3. Repeat measurement to confirm finding; and 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; and 3. Review and advise the ET and ER on the effectiveness of the proposed remedial measures.	1. Notify Contractor.	1. Identify source(s), investigate the causes of exceedance and propose remedial measures; 2. Implement remedial measures; and 3. Amend working methods agreed with the ER as appropriate.
Action level being exceeded by two or more consecutive sampling	1. Identify source; 2. Inform Contractor, IEC and ER; 3. Advise the Contractor and ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with Contractor, IEC and ER; and 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET, ER and Contractor on possible remedial measures; 4. Advise the ET and ER on the effectiveness of the proposed remedial measures; and 5. Supervise Implementation of remedial measures.	1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Identify source and investigate the causes of exceedance; 2. Submit proposals for remedial measures to the ER with a copy to ET and IEC within three working days of notification; 3. Implement the agreed proposals; and 4. Amend proposal as appropriate.
Limit level being exceeded by one sampling	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform Contractor, IEC, ER, and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; and 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; and 5. Supervise implementation of remedial measures.	1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Identify source(s) and investigate the causes of exceedance; 2. Take immediate action to avoid further exceedance; 3. Submit proposals for remedial measures to ER with a copy to ET and IEC within three working days of notification; 4. Implement the agreed proposals; and 5. Amend proposal if appropriate.
Limit level being exceeded by two or more consecutive sampling	1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by the ET; 2. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 3. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and 4. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of exceedance in writing; 2. In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented; 3. Supervise the implementation of remedial measures; and 4. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Identify source(s) and investigate the causes of exceedance; 2. Take immediate action to avoid further exceedance; 3. Submit proposals for remedial measures to the ER with a copy to the IEC and ET within three working days of notification; 4. Implement the agreed proposals; 5. Revise and resubmit proposals if problem still not under control; and 6. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Event and Action Plan for Noise (Construction Noise)

EVENT	ACTION			
	ET	IEC	ER	Contractor
Action Level	1. Notify IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the Contractor and formulate remedial measures; and 5. Increase monitoring frequency to check mitigation effectiveness.	1. Review the analyzed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; and 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analyzed noise problem; and 4. Ensure remedial measures are properly implemented.	1. Submit noise mitigation proposals to IEC; and 2. Implement noise mitigation proposals.
Limit Level	1. Identify source; 2. Inform IEC, ER, EPD and Contractor; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, ER and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analyzed noise problem; 4. Ensure remedial measures properly implemented; and 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; and 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Appendix I

Weather and Meteorological
Conditions during Reporting Month

Weather Condition (February 2025)

Date	Mean Pressure (hPa)	Air Temperature			Mean Relative Humidity (%)	Total Rainfall (mm)
		Maximum (°C)	Mean (°C)	Minimum (°C)		
1 February 2025	1013.1	21.9	19.5	17.2	86	1.7
2 February 2025	1014.3	20.1	18.5	17.5	86	Trace
3 February 2025	1019.6	17.8	15.8	13.1	74	0.1
4 February 2025	1022.2	18.6	14.7	12.2	61	-
5 February 2025	1019.4	18.5	15.7	13.6	65	-
6 February 2025	1017.9	20.1	17.4	15.9	57	-
7 February 2025	1021.4	17.7	15.5	12.7	63	-
8 February 2025	1024.6	17.2	14.0	11.5	43	-
9 February 2025	1024.0	17.4	14.5	11.8	46	-
10 February 2025	1021.7	19.1	15.9	12.8	63	-
11 February 2025	1019.1	19.9	17.6	15.2	71	Trace
12 February 2025	1017.2	20.3	18.8	17.2	93	23.8
13 February 2025	1018.9	19.6	18.1	16.9	79	Trace
14 February 2025	1017.9	18.2	16.8	15.5	87	0.2
15 February 2025	1015.6	22.3	18.5	16.7	83	Trace
16 February 2025	1016.9	25.1	21.0	17.8	81	-
17 February 2025	1020.6	21.9	18.9	17.3	70	-
18 February 2025	1021.7	20.4	18.0	16.7	71	-
19 February 2025	1021.9	18.7	17.2	16.1	75	-
20 February 2025	1021.2	19.8	17.7	16.6	79	-
21 February 2025	1022.4	19.4	17.1	16.3	82	Trace
22 February 2025	1023.2	18.1	16.6	15.5	80	Trace
23 February 2025	1026.0	18.8	16.8	15.4	73	Trace
24 February 2025	1028.2	19.5	15.4	13.0	67	-
25 February 2025	1026.1	19.6	16.9	14.4	70	Trace
26 February 2025	1022.9	20.7	17.8	16.1	76	0.3
27 February 2025	1019.0	22.2	18.7	16.1	76	-
28 February 2025	1017.3	25.4	21.3	18.1	77	-

Remark:

- Trace means rainfall less than 0.05 mm.

Source: Hong Kong Observatory

Appendix J

Wind Data

Wind Data (February 2025)

Date & Time	Wind Speed (m/s)	Wind Direction	Date & Time	Wind Speed (m/s)	Wind Direction
01 Feb 2025 00:00	2.8	SW	02 Feb 2025 00:00	2.8	SES
01 Feb 2025 01:00	3.3	SE	02 Feb 2025 01:00	1.7	SWS
01 Feb 2025 02:00	1.6	SWS	02 Feb 2025 02:00	2.1	SWW
01 Feb 2025 03:00	3.1	SW	02 Feb 2025 03:00	2.3	SWW
01 Feb 2025 04:00	1.9	S	02 Feb 2025 04:00	2.7	SEE
01 Feb 2025 05:00	1.9	SWS	02 Feb 2025 05:00	3.1	SW
01 Feb 2025 06:00	2.9	SEE	02 Feb 2025 06:00	2.7	S
01 Feb 2025 07:00	2.9	SWS	02 Feb 2025 07:00	4.8	SWS
01 Feb 2025 08:00	1.3	SE	02 Feb 2025 08:00	1.7	NEE
01 Feb 2025 09:00	2.4	S	02 Feb 2025 09:00	4.5	SES
01 Feb 2025 10:00	3.0	S	02 Feb 2025 10:00	3.1	SWS
01 Feb 2025 11:00	3.3	SWS	02 Feb 2025 11:00	3.5	SW
01 Feb 2025 12:00	1.5	W	02 Feb 2025 12:00	3.9	NWW
01 Feb 2025 13:00	2.9	SE	02 Feb 2025 13:00	3.3	SEE
01 Feb 2025 14:00	3.9	SES	02 Feb 2025 14:00	3.0	NE
01 Feb 2025 15:00	2.7	E	02 Feb 2025 15:00	3.0	SE
01 Feb 2025 16:00	2.0	SEE	02 Feb 2025 16:00	3.4	SE
01 Feb 2025 17:00	3.0	S	02 Feb 2025 17:00	2.0	SES
01 Feb 2025 18:00	2.5	W	02 Feb 2025 18:00	2.7	SES
01 Feb 2025 19:00	2.7	SES	02 Feb 2025 19:00	5.8	SWS
01 Feb 2025 20:00	2.3	E	02 Feb 2025 20:00	3.3	SE
01 Feb 2025 21:00	3.0	SE	02 Feb 2025 21:00	2.6	SW
01 Feb 2025 22:00	4.2	SEE	02 Feb 2025 22:00	4.1	S
01 Feb 2025 23:00	3.9	SE	02 Feb 2025 23:00	2.8	E

Wind Data (February 2025)

Date & Time	Wind Speed (m/s)	Wind Direction	Date & Time	Wind Speed (m/s)	Wind Direction
03 Feb 2025 00:00	4.3	SES	04 Feb 2025 00:00	4.3	SE
03 Feb 2025 01:00	3.8	SES	04 Feb 2025 01:00	3.7	E
03 Feb 2025 02:00	3.9	SEE	04 Feb 2025 02:00	2.3	SW
03 Feb 2025 03:00	4.2	E	04 Feb 2025 03:00	2.4	SE
03 Feb 2025 04:00	1.3	S	04 Feb 2025 04:00	1.6	SW
03 Feb 2025 05:00	3.3	NWW	04 Feb 2025 05:00	2.6	SWS
03 Feb 2025 06:00	1.6	S	04 Feb 2025 06:00	4.1	SEE
03 Feb 2025 07:00	0.9	SES	04 Feb 2025 07:00	0.4	NEE
03 Feb 2025 08:00	1.3	NWW	04 Feb 2025 08:00	4.9	SW
03 Feb 2025 09:00	3.5	S	04 Feb 2025 09:00	1.8	SWS
03 Feb 2025 10:00	2.3	SES	04 Feb 2025 10:00	3.4	SES
03 Feb 2025 11:00	2.0	S	04 Feb 2025 11:00	2.8	NE
03 Feb 2025 12:00	2.1	W	04 Feb 2025 12:00	4.4	W
03 Feb 2025 13:00	3.9	SWW	04 Feb 2025 13:00	4.1	SWW
03 Feb 2025 14:00	3.4	NE	04 Feb 2025 14:00	3.7	SES
03 Feb 2025 15:00	1.2	SES	04 Feb 2025 15:00	1.9	SE
03 Feb 2025 16:00	1.7	NEE	04 Feb 2025 16:00	1.9	SWW
03 Feb 2025 17:00	2.3	SES	04 Feb 2025 17:00	2.2	SW
03 Feb 2025 18:00	4.3	S	04 Feb 2025 18:00	2.6	S
03 Feb 2025 19:00	3.3	SWW	04 Feb 2025 19:00	2.6	SWS
03 Feb 2025 20:00	4.9	SW	04 Feb 2025 20:00	2.7	SES
03 Feb 2025 21:00	4.2	SE	04 Feb 2025 21:00	2.8	SES
03 Feb 2025 22:00	2.3	E	04 Feb 2025 22:00	1.9	SEE
03 Feb 2025 23:00	1.0	SE	04 Feb 2025 23:00	3.9	SES

Wind Data (February 2025)

Date & Time	Wind Speed (m/s)	Wind Direction	Date & Time	Wind Speed (m/s)	Wind Direction
05 Feb 2025 00:00	3.4	SWS	06 Feb 2025 00:00	1.6	SW
05 Feb 2025 01:00	2.8	SW	06 Feb 2025 01:00	1.6	SWW
05 Feb 2025 02:00	3.2	SWS	06 Feb 2025 02:00	3.8	NE
05 Feb 2025 03:00	2.7	SW	06 Feb 2025 03:00	2.2	SEE
05 Feb 2025 04:00	2.5	S	06 Feb 2025 04:00	3.6	SWS
05 Feb 2025 05:00	3.3	SES	06 Feb 2025 05:00	2.0	SW
05 Feb 2025 06:00	1.4	SES	06 Feb 2025 06:00	2.2	SWS
05 Feb 2025 07:00	1.9	SWW	06 Feb 2025 07:00	2.5	S
05 Feb 2025 08:00	3.1	W	06 Feb 2025 08:00	2.7	W
05 Feb 2025 09:00	3.6	NWW	06 Feb 2025 09:00	4.6	E
05 Feb 2025 10:00	3.4	SEE	06 Feb 2025 10:00	3.6	SWS
05 Feb 2025 11:00	2.2	S	06 Feb 2025 11:00	3.1	SWW
05 Feb 2025 12:00	2.7	SEE	06 Feb 2025 12:00	2.2	S
05 Feb 2025 13:00	2.7	S	06 Feb 2025 13:00	2.6	SE
05 Feb 2025 14:00	3.1	W	06 Feb 2025 14:00	3.3	SES
05 Feb 2025 15:00	4.0	SWS	06 Feb 2025 15:00	2.5	W
05 Feb 2025 16:00	4.0	SE	06 Feb 2025 16:00	2.4	SES
05 Feb 2025 17:00	0.7	SWW	06 Feb 2025 17:00	2.6	SE
05 Feb 2025 18:00	2.5	E	06 Feb 2025 18:00	2.1	SW
05 Feb 2025 19:00	3.9	SWW	06 Feb 2025 19:00	2.8	SEE
05 Feb 2025 20:00	1.6	S	06 Feb 2025 20:00	2.5	NWW
05 Feb 2025 21:00	2.2	SWS	06 Feb 2025 21:00	2.8	SWS
05 Feb 2025 22:00	2.4	SES	06 Feb 2025 22:00	2.1	SES
05 Feb 2025 23:00	2.7	SE	06 Feb 2025 23:00	3.0	SWS

Wind Data (February 2025)

Date & Time	Wind Speed (m/s)	Wind Direction	Date & Time	Wind Speed (m/s)	Wind Direction
07 Feb 2025 00:00	2.4	SWW	08 Feb 2025 00:00	1.9	S
07 Feb 2025 01:00	3.5	E	08 Feb 2025 01:00	3.0	SWW
07 Feb 2025 02:00	2.0	SWW	08 Feb 2025 02:00	3.5	SW
07 Feb 2025 03:00	2.2	S	08 Feb 2025 03:00	2.9	SES
07 Feb 2025 04:00	0.3	SES	08 Feb 2025 04:00	3.1	SWS
07 Feb 2025 05:00	3.5	E	08 Feb 2025 05:00	1.7	SEE
07 Feb 2025 06:00	3.9	SWS	08 Feb 2025 06:00	3.4	E
07 Feb 2025 07:00	1.9	S	08 Feb 2025 07:00	3.3	SWS
07 Feb 2025 08:00	2.7	SES	08 Feb 2025 08:00	3.2	NE
07 Feb 2025 09:00	1.6	SE	08 Feb 2025 09:00	2.5	SEE
07 Feb 2025 10:00	1.8	S	08 Feb 2025 10:00	3.4	S
07 Feb 2025 11:00	3.6	SEE	08 Feb 2025 11:00	0.7	SEE
07 Feb 2025 12:00	3.5	SE	08 Feb 2025 12:00	3.1	SW
07 Feb 2025 13:00	1.7	NE	08 Feb 2025 13:00	2.1	SEE
07 Feb 2025 14:00	4.9	NWW	08 Feb 2025 14:00	4.7	SWW
07 Feb 2025 15:00	2.7	SW	08 Feb 2025 15:00	2.9	SWS
07 Feb 2025 16:00	2.9	SWS	08 Feb 2025 16:00	4.7	E
07 Feb 2025 17:00	1.9	W	08 Feb 2025 17:00	3.1	SWS
07 Feb 2025 18:00	3.0	SWS	08 Feb 2025 18:00	2.8	SWS
07 Feb 2025 19:00	2.7	SES	08 Feb 2025 19:00	2.5	S
07 Feb 2025 20:00	2.4	SW	08 Feb 2025 20:00	4.2	S
07 Feb 2025 21:00	3.6	SE	08 Feb 2025 21:00	3.4	SEE
07 Feb 2025 22:00	2.9	S	08 Feb 2025 22:00	2.9	SES
07 Feb 2025 23:00	3.1	SES	08 Feb 2025 23:00	3.2	S

Wind Data (February 2025)

Date & Time	Wind Speed (m/s)	Wind Direction	Date & Time	Wind Speed (m/s)	Wind Direction
09 Feb 2025 00:00	2.1	NE	10 Feb 2025 00:00	2.9	SE
09 Feb 2025 01:00	3.5	S	10 Feb 2025 01:00	2.8	E
09 Feb 2025 02:00	2.9	SEE	10 Feb 2025 02:00	2.1	SW
09 Feb 2025 03:00	1.1	SES	10 Feb 2025 03:00	2.9	S
09 Feb 2025 04:00	1.3	E	10 Feb 2025 04:00	3.0	S
09 Feb 2025 05:00	3.3	SES	10 Feb 2025 05:00	2.9	SES
09 Feb 2025 06:00	0.2	S	10 Feb 2025 06:00	3.9	SW
09 Feb 2025 07:00	3.0	SW	10 Feb 2025 07:00	2.3	SEE
09 Feb 2025 08:00	1.5	SE	10 Feb 2025 08:00	1.1	SES
09 Feb 2025 09:00	3.5	SWS	10 Feb 2025 09:00	2.1	SE
09 Feb 2025 10:00	2.7	SW	10 Feb 2025 10:00	3.4	SES
09 Feb 2025 11:00	3.4	SW	10 Feb 2025 11:00	2.6	SE
09 Feb 2025 12:00	1.9	SES	10 Feb 2025 12:00	2.0	S
09 Feb 2025 13:00	2.3	NEE	10 Feb 2025 13:00	2.9	NEE
09 Feb 2025 14:00	2.7	W	10 Feb 2025 14:00	2.7	SWW
09 Feb 2025 15:00	1.4	S	10 Feb 2025 15:00	3.0	SEE
09 Feb 2025 16:00	2.8	SEE	10 Feb 2025 16:00	4.1	SW
09 Feb 2025 17:00	2.7	SEE	10 Feb 2025 17:00	3.8	SES
09 Feb 2025 18:00	2.2	SW	10 Feb 2025 18:00	3.4	W
09 Feb 2025 19:00	4.1	SEE	10 Feb 2025 19:00	1.7	SEE
09 Feb 2025 20:00	3.6	SWW	10 Feb 2025 20:00	3.7	E
09 Feb 2025 21:00	2.8	SES	10 Feb 2025 21:00	3.0	SEE
09 Feb 2025 22:00	3.6	SWS	10 Feb 2025 22:00	3.2	S
09 Feb 2025 23:00	4.3	SW	10 Feb 2025 23:00	3.2	SEE

Wind Data (February 2025)

Date & Time	Wind Speed (m/s)	Wind Direction	Date & Time	Wind Speed (m/s)	Wind Direction
11 Feb 2025 00:00	1.7	SWW	12 Feb 2025 00:00	3.3	S
11 Feb 2025 01:00	3.8	SES	12 Feb 2025 01:00	3.6	SES
11 Feb 2025 02:00	3.1	SWS	12 Feb 2025 02:00	1.9	SES
11 Feb 2025 03:00	2.1	S	12 Feb 2025 03:00	2.9	S
11 Feb 2025 04:00	2.2	SWS	12 Feb 2025 04:00	2.7	SE
11 Feb 2025 05:00	3.5	S	12 Feb 2025 05:00	3.2	SEE
11 Feb 2025 06:00	2.8	SES	12 Feb 2025 06:00	1.5	SW
11 Feb 2025 07:00	2.8	SWS	12 Feb 2025 07:00	2.8	SE
11 Feb 2025 08:00	1.0	SW	12 Feb 2025 08:00	1.3	SW
11 Feb 2025 09:00	4.5	SEE	12 Feb 2025 09:00	3.4	SE
11 Feb 2025 10:00	3.7	SWW	12 Feb 2025 10:00	3.2	SES
11 Feb 2025 11:00	2.5	SW	12 Feb 2025 11:00	1.7	SES
11 Feb 2025 12:00	1.8	SES	12 Feb 2025 12:00	5.1	E
11 Feb 2025 13:00	2.2	S	12 Feb 2025 13:00	3.0	S
11 Feb 2025 14:00	3.5	W	12 Feb 2025 14:00	1.7	SE
11 Feb 2025 15:00	3.6	S	12 Feb 2025 15:00	2.2	NE
11 Feb 2025 16:00	2.4	SW	12 Feb 2025 16:00	2.1	W
11 Feb 2025 17:00	3.5	SWS	12 Feb 2025 17:00	3.8	SWS
11 Feb 2025 18:00	2.5	SW	12 Feb 2025 18:00	1.9	E
11 Feb 2025 19:00	2.3	SW	12 Feb 2025 19:00	1.1	SE
11 Feb 2025 20:00	2.7	NE	12 Feb 2025 20:00	2.5	N
11 Feb 2025 21:00	1.5	SES	12 Feb 2025 21:00	1.5	SES
11 Feb 2025 22:00	3.1	S	12 Feb 2025 22:00	0.9	E
11 Feb 2025 23:00	0.6	SWW	12 Feb 2025 23:00	3.0	SE

Wind Data (February 2025)

Date & Time	Wind Speed (m/s)	Wind Direction	Date & Time	Wind Speed (m/s)	Wind Direction
13 Feb 2025 00:00	4.2	SE	14 Feb 2025 00:00	1.2	SES
13 Feb 2025 01:00	1.8	SW	14 Feb 2025 01:00	2.9	SE
13 Feb 2025 02:00	3.6	SW	14 Feb 2025 02:00	2.6	SWS
13 Feb 2025 03:00	4.6	SE	14 Feb 2025 03:00	3.2	S
13 Feb 2025 04:00	3.7	SES	14 Feb 2025 04:00	1.3	SWS
13 Feb 2025 05:00	4.2	SE	14 Feb 2025 05:00	2.4	SES
13 Feb 2025 06:00	1.5	NWW	14 Feb 2025 06:00	2.3	SE
13 Feb 2025 07:00	0.8	SWS	14 Feb 2025 07:00	3.5	SWW
13 Feb 2025 08:00	0.9	SW	14 Feb 2025 08:00	2.5	S
13 Feb 2025 09:00	3.0	E	14 Feb 2025 09:00	3.3	S
13 Feb 2025 10:00	4.2	SES	14 Feb 2025 10:00	2.8	SWS
13 Feb 2025 11:00	2.7	S	14 Feb 2025 11:00	3.3	SES
13 Feb 2025 12:00	1.3	SEE	14 Feb 2025 12:00	2.7	SES
13 Feb 2025 13:00	1.9	SEE	14 Feb 2025 13:00	1.3	SW
13 Feb 2025 14:00	2.5	SEE	14 Feb 2025 14:00	1.9	SE
13 Feb 2025 15:00	1.5	S	14 Feb 2025 15:00	3.2	S
13 Feb 2025 16:00	4.0	SE	14 Feb 2025 16:00	1.9	S
13 Feb 2025 17:00	2.7	NEE	14 Feb 2025 17:00	4.3	S
13 Feb 2025 18:00	3.7	SWS	14 Feb 2025 18:00	2.5	SW
13 Feb 2025 19:00	3.9	S	14 Feb 2025 19:00	1.7	NEE
13 Feb 2025 20:00	2.9	SEE	14 Feb 2025 20:00	2.0	SWW
13 Feb 2025 21:00	3.1	S	14 Feb 2025 21:00	2.4	W
13 Feb 2025 22:00	3.5	W	14 Feb 2025 22:00	1.3	SWS
13 Feb 2025 23:00	2.5	SWS	14 Feb 2025 23:00	1.4	NEN

Wind Data (February 2025)

Date & Time	Wind Speed (m/s)	Wind Direction	Date & Time	Wind Speed (m/s)	Wind Direction
15 Feb 2025 00:00	1.4	SES	16 Feb 2025 00:00	4.1	NWW
15 Feb 2025 01:00	2.5	SWS	16 Feb 2025 01:00	1.8	SWW
15 Feb 2025 02:00	4.0	S	16 Feb 2025 02:00	1.4	SWS
15 Feb 2025 03:00	3.9	SES	16 Feb 2025 03:00	1.4	E
15 Feb 2025 04:00	2.3	NE	16 Feb 2025 04:00	0.3	SW
15 Feb 2025 05:00	3.0	SES	16 Feb 2025 05:00	1.5	S
15 Feb 2025 06:00	4.1	SES	16 Feb 2025 06:00	2.7	S
15 Feb 2025 07:00	4.6	E	16 Feb 2025 07:00	4.1	SW
15 Feb 2025 08:00	3.2	SE	16 Feb 2025 08:00	0.5	NEE
15 Feb 2025 09:00	1.6	W	16 Feb 2025 09:00	3.1	SWS
15 Feb 2025 10:00	2.7	SES	16 Feb 2025 10:00	3.8	SEE
15 Feb 2025 11:00	3.6	SWS	16 Feb 2025 11:00	2.5	S
15 Feb 2025 12:00	3.8	S	16 Feb 2025 12:00	2.4	SE
15 Feb 2025 13:00	2.9	SES	16 Feb 2025 13:00	1.9	SE
15 Feb 2025 14:00	1.7	E	16 Feb 2025 14:00	2.6	SWS
15 Feb 2025 15:00	4.0	SES	16 Feb 2025 15:00	4.4	SE
15 Feb 2025 16:00	4.0	SW	16 Feb 2025 16:00	3.1	NWW
15 Feb 2025 17:00	2.1	SE	16 Feb 2025 17:00	1.3	SWS
15 Feb 2025 18:00	2.7	W	16 Feb 2025 18:00	2.6	SE
15 Feb 2025 19:00	2.8	SE	16 Feb 2025 19:00	2.6	SES
15 Feb 2025 20:00	2.6	NW	16 Feb 2025 20:00	1.5	SES
15 Feb 2025 21:00	3.7	E	16 Feb 2025 21:00	3.0	SES
15 Feb 2025 22:00	2.9	SES	16 Feb 2025 22:00	3.0	SE
15 Feb 2025 23:00	2.8	SES	16 Feb 2025 23:00	3.1	S

Wind Data (February 2025)

Date & Time	Wind Speed (m/s)	Wind Direction	Date & Time	Wind Speed (m/s)	Wind Direction
17 Feb 2025 00:00	2.5	SE	18 Feb 2025 00:00	3.8	S
17 Feb 2025 01:00	2.5	SE	18 Feb 2025 01:00	3.6	SEE
17 Feb 2025 02:00	2.3	SEE	18 Feb 2025 02:00	4.1	W
17 Feb 2025 03:00	3.4	SWS	18 Feb 2025 03:00	3.9	SW
17 Feb 2025 04:00	0.9	E	18 Feb 2025 04:00	3.3	SWS
17 Feb 2025 05:00	3.7	SW	18 Feb 2025 05:00	2.4	NEE
17 Feb 2025 06:00	2.5	SWW	18 Feb 2025 06:00	3.8	S
17 Feb 2025 07:00	3.2	SEE	18 Feb 2025 07:00	2.6	SW
17 Feb 2025 08:00	3.2	SWS	18 Feb 2025 08:00	4.4	S
17 Feb 2025 09:00	3.2	SES	18 Feb 2025 09:00	2.3	SES
17 Feb 2025 10:00	2.8	W	18 Feb 2025 10:00	4.6	SE
17 Feb 2025 11:00	2.4	SEE	18 Feb 2025 11:00	2.7	E
17 Feb 2025 12:00	2.9	SWS	18 Feb 2025 12:00	3.2	S
17 Feb 2025 13:00	3.3	NW	18 Feb 2025 13:00	2.6	SE
17 Feb 2025 14:00	2.4	S	18 Feb 2025 14:00	4.2	SES
17 Feb 2025 15:00	2.9	NEE	18 Feb 2025 15:00	3.9	SWS
17 Feb 2025 16:00	3.5	S	18 Feb 2025 16:00	2.6	SWS
17 Feb 2025 17:00	3.8	SES	18 Feb 2025 17:00	3.3	SES
17 Feb 2025 18:00	2.2	SE	18 Feb 2025 18:00	3.3	SWS
17 Feb 2025 19:00	3.4	SEE	18 Feb 2025 19:00	2.8	S
17 Feb 2025 20:00	3.4	SES	18 Feb 2025 20:00	2.4	SWS
17 Feb 2025 21:00	2.7	SWS	18 Feb 2025 21:00	2.5	NEE
17 Feb 2025 22:00	3.1	SWS	18 Feb 2025 22:00	1.6	S
17 Feb 2025 23:00	1.6	SEE	18 Feb 2025 23:00	1.4	SEE

Wind Data (February 2025)

Date & Time	Wind Speed (m/s)	Wind Direction	Date & Time	Wind Speed (m/s)	Wind Direction
19 Feb 2025 00:00	2.9	SWS	20 Feb 2025 00:00	2.1	S
19 Feb 2025 01:00	3.2	SWS	20 Feb 2025 01:00	3.7	W
19 Feb 2025 02:00	4.9	SW	20 Feb 2025 02:00	4.5	SWS
19 Feb 2025 03:00	3.1	SWS	20 Feb 2025 03:00	1.8	SWS
19 Feb 2025 04:00	1.5	SWS	20 Feb 2025 04:00	3.9	SWS
19 Feb 2025 05:00	3.2	SEE	20 Feb 2025 05:00	2.3	SWS
19 Feb 2025 06:00	1.9	S	20 Feb 2025 06:00	3.5	SE
19 Feb 2025 07:00	3.4	SES	20 Feb 2025 07:00	1.5	S
19 Feb 2025 08:00	2.1	S	20 Feb 2025 08:00	4.1	S
19 Feb 2025 09:00	3.8	SEE	20 Feb 2025 09:00	1.3	SWW
19 Feb 2025 10:00	2.5	W	20 Feb 2025 10:00	2.9	E
19 Feb 2025 11:00	2.5	SEE	20 Feb 2025 11:00	3.1	SWS
19 Feb 2025 12:00	2.9	S	20 Feb 2025 12:00	1.5	S
19 Feb 2025 13:00	4.0	SES	20 Feb 2025 13:00	3.4	SEE
19 Feb 2025 14:00	1.3	SW	20 Feb 2025 14:00	2.8	SW
19 Feb 2025 15:00	4.7	SWS	20 Feb 2025 15:00	1.0	SEE
19 Feb 2025 16:00	2.7	SWW	20 Feb 2025 16:00	3.1	SE
19 Feb 2025 17:00	3.7	SW	20 Feb 2025 17:00	2.8	NWW
19 Feb 2025 18:00	2.9	SES	20 Feb 2025 18:00	3.5	SEE
19 Feb 2025 19:00	3.2	SE	20 Feb 2025 19:00	4.0	W
19 Feb 2025 20:00	2.2	SEE	20 Feb 2025 20:00	2.3	SES
19 Feb 2025 21:00	1.6	NEE	20 Feb 2025 21:00	3.7	SE
19 Feb 2025 22:00	3.7	SE	20 Feb 2025 22:00	3.6	SW
19 Feb 2025 23:00	3.1	S	20 Feb 2025 23:00	2.7	NEE

Wind Data (February 2025)

Date & Time	Wind Speed (m/s)	Wind Direction	Date & Time	Wind Speed (m/s)	Wind Direction
21 Feb 2025 00:00	3.5	SEE	22 Feb 2025 00:00	2.9	SE
21 Feb 2025 01:00	3.0	E	22 Feb 2025 01:00	3.6	SES
21 Feb 2025 02:00	3.5	SWS	22 Feb 2025 02:00	2.8	SE
21 Feb 2025 03:00	2.2	SWS	22 Feb 2025 03:00	3.5	SE
21 Feb 2025 04:00	3.4	SE	22 Feb 2025 04:00	1.5	SEE
21 Feb 2025 05:00	1.3	NE	22 Feb 2025 05:00	1.4	E
21 Feb 2025 06:00	2.9	NE	22 Feb 2025 06:00	4.6	SW
21 Feb 2025 07:00	2.4	SWS	22 Feb 2025 07:00	3.1	SES
21 Feb 2025 08:00	2.9	W	22 Feb 2025 08:00	4.3	SWW
21 Feb 2025 09:00	4.7	SES	22 Feb 2025 09:00	3.0	S
21 Feb 2025 10:00	3.4	SW	22 Feb 2025 10:00	2.9	SW
21 Feb 2025 11:00	1.5	SWW	22 Feb 2025 11:00	3.8	SES
21 Feb 2025 12:00	2.2	SES	22 Feb 2025 12:00	1.6	SW
21 Feb 2025 13:00	3.1	SWS	22 Feb 2025 13:00	3.6	SWS
21 Feb 2025 14:00	3.8	W	22 Feb 2025 14:00	4.0	SE
21 Feb 2025 15:00	2.2	SWS	22 Feb 2025 15:00	3.6	SES
21 Feb 2025 16:00	3.0	SWW	22 Feb 2025 16:00	4.1	S
21 Feb 2025 17:00	2.1	SES	22 Feb 2025 17:00	3.4	S
21 Feb 2025 18:00	3.0	SEE	22 Feb 2025 18:00	4.1	SE
21 Feb 2025 19:00	2.1	SEE	22 Feb 2025 19:00	3.6	SWW
21 Feb 2025 20:00	2.7	SE	22 Feb 2025 20:00	2.7	SEE
21 Feb 2025 21:00	2.5	SWW	22 Feb 2025 21:00	2.4	SEE
21 Feb 2025 22:00	3.8	S	22 Feb 2025 22:00	1.0	SW
21 Feb 2025 23:00	2.5	SES	22 Feb 2025 23:00	3.2	SE

Wind Data (February 2025)

Date & Time	Wind Speed (m/s)	Wind Direction	Date & Time	Wind Speed (m/s)	Wind Direction
23 Feb 2025 00:00	2.5	SEE	24 Feb 2025 00:00	2.3	SEE
23 Feb 2025 01:00	2.5	S	24 Feb 2025 01:00	1.2	S
23 Feb 2025 02:00	4.4	SW	24 Feb 2025 02:00	4.1	SWW
23 Feb 2025 03:00	2.5	SES	24 Feb 2025 03:00	3.1	S
23 Feb 2025 04:00	1.7	E	24 Feb 2025 04:00	2.8	SE
23 Feb 2025 05:00	3.5	SES	24 Feb 2025 05:00	3.9	E
23 Feb 2025 06:00	2.2	S	24 Feb 2025 06:00	1.9	E
23 Feb 2025 07:00	1.6	SWS	24 Feb 2025 07:00	2.5	E
23 Feb 2025 08:00	1.4	SEE	24 Feb 2025 08:00	1.5	S
23 Feb 2025 09:00	3.1	SWS	24 Feb 2025 09:00	2.1	SE
23 Feb 2025 10:00	2.6	SWS	24 Feb 2025 10:00	3.2	W
23 Feb 2025 11:00	2.9	W	24 Feb 2025 11:00	2.2	SW
23 Feb 2025 12:00	2.3	E	24 Feb 2025 12:00	3.5	NE
23 Feb 2025 13:00	3.4	SEE	24 Feb 2025 13:00	2.8	NW
23 Feb 2025 14:00	3.5	W	24 Feb 2025 14:00	2.7	SWW
23 Feb 2025 15:00	1.4	SWW	24 Feb 2025 15:00	2.1	SWW
23 Feb 2025 16:00	4.4	S	24 Feb 2025 16:00	2.1	E
23 Feb 2025 17:00	3.7	SW	24 Feb 2025 17:00	3.0	SES
23 Feb 2025 18:00	2.8	SES	24 Feb 2025 18:00	3.7	NWW
23 Feb 2025 19:00	4.2	SE	24 Feb 2025 19:00	2.0	SWS
23 Feb 2025 20:00	3.3	SEE	24 Feb 2025 20:00	2.3	SE
23 Feb 2025 21:00	3.7	SEE	24 Feb 2025 21:00	3.5	SWS
23 Feb 2025 22:00	3.5	SE	24 Feb 2025 22:00	2.3	SE
23 Feb 2025 23:00	2.5	S	24 Feb 2025 23:00	1.8	SE

Wind Data (February 2025)

Date & Time	Wind Speed (m/s)	Wind Direction	Date & Time	Wind Speed (m/s)	Wind Direction
25 Feb 2025 00:00	1.8	NEE	26 Feb 2025 00:00	2.8	S
25 Feb 2025 01:00	2.9	SES	26 Feb 2025 01:00	4.5	NEE
25 Feb 2025 02:00	2.0	SW	26 Feb 2025 02:00	3.1	SE
25 Feb 2025 03:00	2.3	SWS	26 Feb 2025 03:00	1.8	W
25 Feb 2025 04:00	1.8	SES	26 Feb 2025 04:00	2.4	S
25 Feb 2025 05:00	2.7	SES	26 Feb 2025 05:00	1.0	SWS
25 Feb 2025 06:00	3.6	SEE	26 Feb 2025 06:00	2.3	SWS
25 Feb 2025 07:00	3.9	SEE	26 Feb 2025 07:00	2.7	SE
25 Feb 2025 08:00	3.3	SWS	26 Feb 2025 08:00	3.9	SEE
25 Feb 2025 09:00	2.5	NE	26 Feb 2025 09:00	3.9	SES
25 Feb 2025 10:00	3.7	SES	26 Feb 2025 10:00	2.2	NEE
25 Feb 2025 11:00	4.1	SES	26 Feb 2025 11:00	1.0	S
25 Feb 2025 12:00	4.6	SW	26 Feb 2025 12:00	3.5	SES
25 Feb 2025 13:00	4.5	SE	26 Feb 2025 13:00	4.0	SE
25 Feb 2025 14:00	3.6	S	26 Feb 2025 14:00	4.1	SEE
25 Feb 2025 15:00	3.2	SW	26 Feb 2025 15:00	2.6	W
25 Feb 2025 16:00	3.1	SES	26 Feb 2025 16:00	3.2	SWS
25 Feb 2025 17:00	3.0	SE	26 Feb 2025 17:00	2.4	SE
25 Feb 2025 18:00	2.0	SE	26 Feb 2025 18:00	3.1	SWS
25 Feb 2025 19:00	2.9	SE	26 Feb 2025 19:00	3.1	W
25 Feb 2025 20:00	3.7	NWW	26 Feb 2025 20:00	3.1	SW
25 Feb 2025 21:00	2.2	SEE	26 Feb 2025 21:00	3.7	E
25 Feb 2025 22:00	2.5	SE	26 Feb 2025 22:00	3.5	SEE
25 Feb 2025 23:00	2.9	SWW	26 Feb 2025 23:00	3.1	SE

Wind Data (February 2025)

Date & Time	Wind Speed (m/s)	Wind Direction	Date & Time	Wind Speed (m/s)	Wind Direction
27 Feb 2025 00:00	1.5	W	28 Feb 2025 00:00	3.0	SES
27 Feb 2025 01:00	2.1	SES	28 Feb 2025 01:00	2.6	SWS
27 Feb 2025 02:00	3.8	SW	28 Feb 2025 02:00	3.2	SES
27 Feb 2025 03:00	4.1	SEE	28 Feb 2025 03:00	2.0	SWS
27 Feb 2025 04:00	2.6	SW	28 Feb 2025 04:00	2.2	SWS
27 Feb 2025 05:00	3.8	S	28 Feb 2025 05:00	3.6	SWS
27 Feb 2025 06:00	0.6	SW	28 Feb 2025 06:00	3.6	SE
27 Feb 2025 07:00	1.0	W	28 Feb 2025 07:00	3.7	SE
27 Feb 2025 08:00	3.3	NWW	28 Feb 2025 08:00	3.0	SWS
27 Feb 2025 09:00	3.0	SWW	28 Feb 2025 09:00	2.7	SW
27 Feb 2025 10:00	5.4	SES	28 Feb 2025 10:00	4.7	S
27 Feb 2025 11:00	3.2	SE	28 Feb 2025 11:00	2.2	NE
27 Feb 2025 12:00	3.1	SWS	28 Feb 2025 12:00	3.4	S
27 Feb 2025 13:00	2.6	SWS	28 Feb 2025 13:00	3.3	SWS
27 Feb 2025 14:00	2.7	SWS	28 Feb 2025 14:00	2.3	E
27 Feb 2025 15:00	1.6	S	28 Feb 2025 15:00	1.8	W
27 Feb 2025 16:00	4.8	NW	28 Feb 2025 16:00	3.9	SEE
27 Feb 2025 17:00	3.5	SEE	28 Feb 2025 17:00	3.7	SES
27 Feb 2025 18:00	3.2	S	28 Feb 2025 18:00	1.8	S
27 Feb 2025 19:00	3.7	SWS	28 Feb 2025 19:00	2.2	SE
27 Feb 2025 20:00	2.2	SES	28 Feb 2025 20:00	4.3	SES
27 Feb 2025 21:00	2.4	SEE	28 Feb 2025 21:00	1.6	SE
27 Feb 2025 22:00	1.7	SEE	28 Feb 2025 22:00	1.7	SWS
27 Feb 2025 23:00	3.0	SWS	28 Feb 2025 23:00	2.7	SEE

Appendix K

Summary of ET's Site Environmental
Audit in the Reporting Month

Summary of ET's Site Environmental Audit in the Reporting Month

Parameters	Date	Observations and Recommendations	Follow-up
Air Quality		NA	
Noise		NA	
Water Quality		NA	
Chemical and Waste Management		NA	
Landscape and Visual Impact		NA	
Permit / Licenses		NA	
Others		NA	

Appendix L

Waste Flow Table

MONTHLY SUMMARY WASTE FLOW TABLE**Sai O Trunk Sewer Sewage Pumping Station**

Sanfield-Gammon Construction JV Company Limited

Reporting Month: February 2025

Monthly Summary Waste Flow Table for 2025 (year)

Month	Actual Quantities of Inert C&D Materials Generation						Actual Quantities of C&D Wastes Generated		Actual Quantities of Recyclables Generation			
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in Other Projects	Disposed as Public Fill	Imported Fill	Chemical Waste	General Refues	Felled Trees	Metals	Paper / Cardboard Packaging	Plastics
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)
Jan	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Mar	0.000											
Apr	0.000											
May	0.000											
Jun	0.000											
Sub-total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
July	0.000											
August	0.000											
September	0.000											
October	0.000											
November	0.000											
December	0.000											
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Comments:

- 1) Assumption: The densities of Rock, Soil, Mixed Rock and Soil, and Regular Spoil are 2.0 ton/m³; the density of general refuse is 1.0 ton/m³; the density of waste oil is 1.0 kg/L.

Appendix M

Cumulative Statistics on Environmental
Complaints, Notifications of Summons and
Successful Prosecutions

Environmental Complaints Log

Reference No.	Date of Complaint Received	Received From	Received By	Nature of Complaint	Date of Investigation	Outcome	Date of Reply

Cumulative Statistics on Complaints

Environmental Aspects	Cumulative No. Brought Forward	No. of Complaints This Month	Cumulative Project-to-Date
Air	0	0	0
Noise	0	0	0
Water	0	0	0
Waste	0	0	0
Total	0	0	0

Cumulative Statistics on Notification of Summons and Successful Prosecutions

Environmental Aspects	Cumulative No. Brought Forward	No. of Notification of Summons and Prosecutions This Month	Cumulative Project-to-Date
Air	0	0	0
Noise	0	0	0
Water	0	0	0
Waste	0	0	0
Total	0	0	0

Appendix N

Implementation Status of Environmental
Mitigation Measures (Construction Phase)

Implementation Status of Environmental Mitigation Measures (Construction Phase)

EIA Ref. (No.)	Environmental Protection Measures (Construction Phase) ⁽¹⁾	Location & (Implementation Agent)	Implementation Status
3.7.1.1 (A1)	A) Air Quality	All construction sites / construction phase / upon completion of all construction activities (Contractor)	
	Sufficient dust suppression measures as stipulated under the <i>Air Pollution Control (Construction Dust) Regulation</i> (Cap. 311R), as well as good site practices and good housekeeping of the site should be properly implemented in order to minimise the construction dust generated. These measures include the followings::		
	a) Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather;		Implemented
	b) Use of frequent watering for particularly dusty construction areas and areas close to ASRs;		Implemented
	c) Use of frequent watering or water sprinklers for major haul roads, material stockpiling areas and other dusty activities within the construction site;		Implemented
	d) Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering should be applied to aggregate fines;		Implemented
	e) Provide hoarding of not less than 2.4 m high from ground level along the site boundary except for site entrance or exit;		Implemented
	f) Open temporary stockpiles should be avoided or covered. Prevent placing dusty material storage piles near ASRs;		Implemented
	g) Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations;		Implemented
	h) Establishment and use of vehicle wheel and body washing facilities at the exit points of the site;		Implemented
	i) Imposition of speed controls for vehicles on unpaved site roads, 8 km/hr is the recommended limit;		Implemented
	j) Routing of vehicles and position of construction plant should be at the maximum possible distance from ASRs;		Implemented
	k) Avoid position of material stockpiling areas, major haul roads and dusty works within the construction site close to concerned ASRs; and		Implemented
	l) Avoid unnecessary exposed earth.		Implemented
3.7.1.2 (A2)	Guidelines stipulated in EPD's <i>Recommended Pollution Control Clauses for Construction Contracts</i> should be incorporated in the contract documents to abate dust impacts. The clauses include:	All construction sites / construction phase / upon completion of all construction activities (Contractor)	
	a) The contractor shall observe and comply with the <i>Air Pollution Control Ordinance</i> and its subsidiary regulations, particularly the <i>Air Pollution Control (Construction Dust) Regulation</i> .		Implemented
	b) The contractor shall undertake at all times to prevent dust nuisance as a result of the construction activities.		Implemented
	c) The contractor shall ensure that there will be adequate water supply / storage for dust suppression.		Implemented
	d) The contractor shall devise, arrange methods of working and carrying out the works in such a manner so as to minimise dust impacts on the surrounding environment, and shall provide experienced personnel with suitable training to ensure that these methods are implemented.		Implemented
	e) Before the commencement of any work, the contractor may require to submit the methods of working, plant, equipment and air pollution control system to be used on the site for the engineer inspection and approval.		Implemented
3.4.1.4 (A3)	<u>Control on fuel combustion from the use of PMEs</u>	All construction sites / construction phase / upon completion of all construction activities (Contractor)	
	a) Legal control on the types of fuel allowed for use and their sulphur contents in commercial and industrial processes should be observed.		Implemented
	b) Only approved or exempted non-road mobile machinery should be allowed to be used in construction sites.		Implemented
	c) All construction plants are required to use ultra-low-sulphur diesel (ULSD) (defined as diesel fuel containing not more than 0.005% sulphur by weight).		Implemented

Note:

(1) Detailed EIA report and EM&A Manual reference refer to the Appendix B of approved EM&A Manual.

N/A: Not Available, N/O: Not Observed.

Implementation Status of Environmental Mitigation Measures (Construction Phase)

EIA Ref. (No.)	Environmental Protection Measures (Construction Phase) ⁽¹⁾	Location & (Implementation Agent)	Implementation Status
	B) Noise		
4.8.1.2 (B1)	Good Site Practice	All construction sites / construction phase / upon completion of all construction activities (Contractor)	
	The site practices listed below should be followed during construction works:		
	a) Only well-maintained PME to be operated on site and should be serviced regularly during construction;		Implemented
	b) Silencers or mufflers on construction equipment should be utilised (if appropriate) and should be properly maintained during the construction;		N/A
	c) Mobile plant, if any, should be sited as far away from NSRs as possible;		Implemented
	d) Machines and plant (such as trucks) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;		Implemented
4.8.1.3 – 4.8.1.4 & Table 7 (B2)	e) Plant known to emit noise strongly in one direction should, wherever possible, be orientated to direct noise away from the nearby NSRs; and	All construction sites / construction phase / upon completion of all construction activities (Contractor)	Implemented
	f) Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activities		Implemented
	Use of Quiet PME		
	The Contractors may adopt alternative quiet PME as long as it can be demonstrated that they would not result in construction noise impacts worse than those predicted in this EIA Report. Use of quiet plant should be made reference to the Powered Mechanical Equipment (PME) listed in the Technical Memorandum or the Quality Powered Mechanical Equipment (QPME) / other commonly used PME listed in Environmental Protection Department (EPD) web pages as far as possible which includes the Sound Power Level (SWLs) for specific quiet PME.		Implemented
	Use of Movable Noise Barriers/Acoustic Mats		
	Movable noise barriers that can be placed close to the construction equipment and moved along with the PME are effective for screening noise from NSRs. A typical design which has been used locally is a wooden framed barrier with a cantilevered upper portion of superficial density no less than 10 kg/m ² on a skid footing with internal sound absorptive lining. This measure is particularly effective for low level zone of NSRs. A longer cantilevered top cover would be required to achieve screening benefits at upper floors of NSRs. The Contractor shall be responsible for the design and actual position of the movable noise barriers with due consideration given to the position and size of the PME, and the requirement of intercepting the line-of-sight from the NSRs to the PME, as well as ensuring that the barriers should have no opening and gap. It is anticipated that properly designed noise barriers would achieve a 5 dB(A) reduction for mobile PME and a 10 dB(A) reduction for static PME. Acoustic mat with surface mass of not less than 7kg/m ² would be used for plant items such as piling, oscillator and a 10 dB(A) noise reduction is anticipated.		Implemented
4.8.1.7 (B4)	Scheduling of Noisy Activities to outside Examination Period of HKBTS	All construction sites / construction phase / upon completion of all construction activities (Contractor)	
	To minimise the construction noise impact on HKBTS, the use of piling (oscillator) in ELS and concurrent use of concrete lorry mixer with other PMEs in steel fixing and concreting of structure should be avoided during the examination period of HKBTS.		Implemented
	Contractor should keep close communication with the operator of HKBTS to obtain the updated schedule of examination at the time conducting of the relevant construction works.		Implemented

Note:

(1) Detailed EIA report and EM&A Manual reference refer to the Appendix B of approved EM&A Manual.

N/A: Not Available, N/O: Not Observed.

Implementation Status of Environmental Mitigation Measures (Construction Phase)

EIA Ref. (No.)	Environmental Protection Measures (Construction Phase) ⁽¹⁾	Location & (Implementation Agent)	Implementation Status
5.8.1.1 (C1)	<u>Construction Site Runoff</u> Proper site management measures should be implemented to control site runoff and drainage, and thereby prevent high sediment loadings from entering nearby watercourses. The contractor should follow the practices, and be responsible for the design, construction, operation and maintenance of all the mitigation measures as specified in ProPECC PN 1/94 “ <i>Construction Site Drainage</i> ”. The design of the mitigation measures should be submitted by the contractor to the engineer for approval. These mitigation measures should include the following practices: a) At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. b) Sand / silt removal facilities such as sand / silt traps and sediment basins should be provided to remove sand / silt particles from runoff to meet the requirements of the TM standard under the WPCO. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt / sand traps should be 5 minutes under maximum flow conditions. c) All drainage facilities and erosion and sediment control structures should always be regularly inspected and maintained to ensure proper and efficient operation and particularly during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. d) Measures should be taken to minimise the ingress of site drainage into excavations. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities. e) If surface excavation works cannot be avoided during the wet season (April to October), temporarily exposed slope / soil surfaces should be covered by a tarpaulin or other means, as far as practicable, and temporary access roads should be protected by crushed stone or gravel, as excavation proceeds. Interception channels should be provided (e.g. along the crest / edge of the excavation) to prevent storm runoff from washing across exposed soil surfaces. Arrangements should always be in place to ensure that adequate surface protection measures can be safely carried out well before the arrival of a rainstorm. Other measures that need to be implemented before, during and after rainstorms are summarised in ProPECC PN 1/94. f) All vehicles and plant should be cleaned before leaving a construction site. An adequately designed and sited wheel washing facility should be provided at every construction site exit where practicable. Wash-water should have sand and silt settled out and removed at least on a weekly basis. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains. g) Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms.	All construction sites / construction phase / upon completion of all construction activities (Contractor)	Implemented
5.8.1.2 – 5.8.1.3 (C2)	<u>General Construction Activities</u> a) Debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby water bodies and public drainage system. b) Stockpiles of cement and other construction materials should be kept covered when not being used. c) Oils and fuels should only be used and stored in designated areas, which have pollution prevention facilities. d) All fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. Rainwater in the bunds should be cleared after each rain event. Waste oils, fuels and solvents collected within the bund should be handled and treated as chemical waste.	All construction sites / construction phase / upon completion of all construction activities (Contractor)	Implemented
5.8.1.4 (C3)	<u>Sewage Effluent</u> Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor would be responsible for appropriate disposal of waste matter and maintenance of these facilities.	All construction sites / construction phase / upon completion of all construction activities (Contractor)	Implemented

Sai O Trunk Sewer Sewage Pumping Station

EIA Ref. (No.)	Environmental Protection Measures (Construction Phase) ⁽¹⁾	Location & (Implementation Agent)	Implementation Status
	C) Water Quality		
5.8.1.5 (C4)	<u>Construction Works in Close Proximity of Inland Waters</u>	All construction sites / construction phase / upon completion of all construction activities (Contractor)	N/A
	The practices outlined in ETWB TC (Works) No. 5/2005 “Protection of natural streams/rivers from adverse impacts arising from construction works” should be adopted where applicable to minimise the water quality impacts upon any natural streams or surface water systems.		

Note:
(1) Detailed EIA report and EM&A Manual reference refer to the Appendix B of approved EM&A Manual.
N/A: Not Available, N/O: Not Observed.

Implementation Status of Environmental Mitigation Measures (Construction Phase)

EIA Ref. (No.)	Environmental Protection Measures (Construction Phase) ⁽¹⁾	Location & (Implementation Agent)	Implementation Status
	D) Waste Management		
6.5.1.3 (D1)	<u>Good Site Practices</u> Recommendations for good site practices during the construction phase include:	All construction sites / construction phase / upon completion of all construction activities (Contractor)	
	a) Nomination of approved personnel, such as a site manager, to be responsible for implementation of good site practices, arrangements for waste collection and effective disposal to an appropriate facility;		Implemented
	b) Training of site personnel in site cleanliness, concepts of waste reduction, reuse and recycling, proper waste management and chemical waste handling procedures;		Implemented
	c) Provision of sufficient waste reception / disposal points, and regular collection of waste;		Implemented
	d) Adoption of appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers;		Implemented
	e) Provision of regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors;		Implemented
	f) Adoption of a recording system for the amount of wastes generated, recycled and disposed (including the disposal sites); and		Implemented
	g) Preparation of Waste Management Plan (WMP), as part of the Environmental Management Plan (EMP).		Implemented
6.5.1.4 (D2)	<u>Waste Reduction Measures</u> Recommendations to achieve waste reduction are discussed as follow:	All construction sites / construction phase / upon completion of all construction activities (Contractor)	
	a) Segregate and store different types of construction related waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;		Implemented
	b) Provide separate labelled bins to segregate recyclable waste such as aluminium cans from other general refuse generated by the work force, and to encourage collection by individual collectors;		Implemented
	c) Recycle any unused chemicals or those with remaining functional capacity;		Implemented
	d) Maximise the use of reusable steel formwork to reduce the amount of C&D materials;		Implemented
	e) Adopt proper storage and site practices to minimise the potential for damage to, or contamination of construction materials;		Implemented
	f) Plan the delivery and stock of construction materials carefully to minimise the amount of waste generated; and		Implemented
	g) Minimise over ordering and wastage through careful planning during purchasing of construction materials.		Implemented
6.5.1.6–6.5.1.7 (D3)	<u>Reducing and Reuse of C&D Materials</u>	All construction sites / construction phase / upon completion of all construction activities (Contractor)	
	a) Careful design, planning together with good site management can reduce over-ordering and generation of C&D materials such as concrete, mortar and cement grouts. Formwork should be designed to minimise the use of standard wooden panels, so that high reuse levels can be achieved. Alternatives such as steel formwork or plastic facing should be considered to increase the potential for reuse.		Implemented
	b) To minimise off-site disposal of inert C&D material, the excavated inert materials with suitable characteristics / size should be reused on-site as fill material as far as practicable, such as for backfilling of the box culvert and drainage pipe works.		Implemented
	c) Prior to disposal of non-inert C&D materials, wood, steel and other metals should also be separated for reuse and / or recycle where practicable so as to minimise the quantity of waste to be disposed of to landfill.		Implemented
6.5.1.8 (D4)	<u>Storage of C&D Materials</u> Suitable areas should be designated within the works site boundaries for temporary stockpiling of C&D material. Within stockpile areas, the following measures should be taken to control potential environmental impacts or nuisance:	All construction sites / construction phase / upon completion of all construction activities (Contractor)	
	a) cover material during heavy rainfall;		Implemented
	b) locate stockpiles to minimise potential visual impacts; and		Implemented
	c) minimise land intake of stockpile areas as far as possible.		Implemented

Sai O Trunk Sewer Sewage Pumping Station

EIA Ref. (No.)	Environmental Protection Measures (Construction Phase) ⁽¹⁾	Location & (Implementation Agent)	Implementation Status
	D) Waste Management		
6.5.1.9 (D5)	<u>Disposal of C&D Materials</u>	All construction sites / construction phase / upon completion of all construction activities (Contractor)	
	a) In order to monitor the disposal of C&D materials at the designated public fill reception facility and landfill and to control fly-tipping, a trip-ticket system should be included.		Implemented
	b) When disposing inert C&D materials at a public filling reception facility, the material shall only consist of soil, rock, concrete, brick, cement plaster / mortar, inert building debris, aggregates and asphalt. The material shall be free from marine mud, household refuse, plastic, metals, industrial and chemical waste, animal and vegetable matter, and other material considered to be unsuitable by the Filling Supervisor.		Implemented
6.5.1.10 & 6.5.1.12 (D6)	<u>Chemical Wastes</u>	Construction and Operational Phase	
	a) If chemical waste is produced at the construction site / the SPS, the contractor would be required to register with the EPD as a Chemical Waste Producer.		Implemented
	b) Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately.		Implemented
	c) Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosives, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc.		Implemented
	d) The contractor shall use a licensed collector to transport and dispose of the chemical wastes at the CWTC or other licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.		Implemented
6.5.1.11 & Table 6.2 (D7)	<u>General Refuse</u>	All construction sites / construction phase / upon completion of all construction activities (Contractor)	
	a) General refuse should be stored in enclosed bins or compaction units separate from C&D materials and chemical wastes.		Implemented
	b) A reputable waste collector should be employed by the contractor to remove general refuse / screenings from the site on a regular basis to minimise odour, pest and litter impacts.		Implemented
	c) Clearly labelled recycling bins should be provided on site to encourage segregation and recycling of aluminium and plastic wastes, and wastepaper to reduce general refuse production.		Implemented
	d) The contractor should carry out an education programme for workers in avoiding, reducing, reusing and recycling of materials generation. Posters and leaflets advising on the use of the bins should also be provided in the site as reminders. The recyclable waste materials should then be collected by reliable waste recycling agents on a regular basis.		Implemented
	e) The collected general refuse will be disposed of at NENT landfill.		Implemented

Note:

(1) Detailed EIA report and EM&A Manual reference refer to the Appendix B of approved EM&A Manual.

N/A: Not Available, N/O: Not Observed.

Implementation Status of Environmental Mitigation Measures (Construction Phase)

EIA Ref. (No.)	Environmental Protection Measures (Construction Phase) ⁽¹⁾	Location & (Implementation Agent)	Implementation Status
	E) Landscape and Visual		
Table 10.9 (E1)	<u>CM1 – Preservation of Trees</u>	All construction sites / construction phase / upon completion of all construction activities (Contractor)	N/A
	Trees to be retained in accordance with DEVB TCW No. 4/2020 - Tree Preservation.		
Table 10.9 (E2)	<u>CM2 – Compensatory Tree Planting</u>	All construction sites / construction phase / upon completion of all construction activities (Contractor)	N/A
	Any trees to be felled under the Project shall be compensated in accordance with DEVB TCW No. 4/2020 - Tree Preservation.		
Table 10.9 (E3)	<u>CM3 – Control of Night-time Lighting Glare</u>	All construction sites / construction phase / upon completion of all construction activities (Contractor)	Implemented
	Any lighting provision of the construction works at night shall be carefully controlled to prevent light overspill to the nearby VSRs and into the sky.		
Table 10.9 (E4)	<u>CM4 – Erection of Decorative Screen Hoarding</u>	All construction sites / construction phase / upon completion of all construction activities (Contractor)	Implemented
	Decorative Hoarding, which is compatible with the surrounding settings, shall be erected during construction to minimise the potential landscape and visual impacts due to the construction works and activities.		
Table 10.9 (E5)	<u>CM5 – Management of Construction Activities and Facilities</u>	All construction sites / construction phase / upon completion of all construction activities (Contractor)	Implemented
	The facilities and activities at works sites and areas, which include site office, temporary storage areas, temporary works etc., shall be carefully managed and controlled on the height, deposition and arrangement to minimise any potential adverse landscape and visual impacts.		
Table 10.9 (E6)	<u>CM6 – Reinstatement of Temporarily Disturbed Landscape Areas</u>	All construction sites / construction phase / upon completion of all construction activities (Contractor)	N/A
	All hard and soft landscape areas disturbed temporarily during construction due to temporary excavations, temporary works sites and works areas shall be reinstated to equal or better quality, to the satisfaction of the relevant Government Departments.		

Note:

(1) Detailed EIA report and EM&A Manual reference refer to the Appendix B of approved EM&A Manual.

N/A: Not Available, N/O: Not Observed

Appendix O

Summary of Outstanding Issues and
Deficiencies in the Reporting Month

Summary of Outstanding Issues and Deficiencies in the Reporting Month

Environmental Aspects	Outstanding Issues	Deficiencies
Air Quality	N/A	Any items of deficiencies can be referred to Appendix K.
Noise	N/A	
Water Quality	N/A	
Chemical and Waste Management	N/A	
Landscape and Visual Impact	N/A	
Permit / Licenses	N/A	
Others	N/A	