



14 March 2024

Our Ref: BL/JC/MC/KW/N74463/24/tt

The EIA Ordinance Register Office,
27th floor, Southorn Centre,
130 Hennessy Road,
Wan Chai, Hong Kong

Attn: Ms. Trista Lau

Dear Sirs,

Contract No. EP/SP/77/15
North-East New Territories Landfill Extension (NENTX)
NENTX – Submission of Monthly EM&A Report (No. 15) - February 2024

In accordance with Condition 3.3 of the EP-292/2007 and FEP-02/292/2007 for the North East New Territories (NENT) Landfill Extension Project (the Project), we are now submitting 2 hard copies and one electronic copy (in CD-ROM format) of the Monthly EM&A Report (No. 15) - February 2024 for the construction stage dated 14 March 2024 together with ET's certification letter and IEC's verification for your perusal.

If you have any questions, please contact our Matt Choy at 2902 5261.

Yours faithfully
For and on behalf of
VEOLIA HONG KONG HOLDING LIMITED

Colin Mitchell
Project Manager

Encl.

cc. EPD – Davy Lau / Nikita Chan (by email only)
Arup – Anson Cheung (1 copy & email)
MIEL – Steve Kok / Claudine Lee (email only)
Aurecon – Fredrick Leong (1 copy & email)
VHK – JC / MC / KW

**Agreement No. CE
20/2004(EP) North
East New
Territories (NENT)
Landfill Extension**

Monthly Environmental
Monitoring and Audit Report
(No. 15) – February 2024

2024-03-14

Our Ref.: CL/91823/1098-VES
Date: 13 March 2024

By Email

Veolia Hong Kong Holding Limited
40/F, One Taikoo Place
979 King's Road
Quarry Bay
Hong Kong

Attn.: Mr. Colin Mitchell

**Meinhardt Infrastructure and
Environment Ltd**
邁進基建環保工程顧問有限公司

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Dear Sir

Re: Contract No. EP/SP/77/15
North-East New Territories Landfill Extension (NENTX)
Monthly Environmental Monitoring and Audit Report (No.15) –
February 2024

I refer to Condition 3.3 under Environmental Permit No. EP-292/2007 and Further Environmental Permit No. FEP-01/292/2007 and FEP-02/292/2007, regarding the submission of a monthly Environmental Monitoring and Audit report. I hereby verify the captioned "Monthly Environmental Monitoring and Audit Report (No.15) – February 2024" dated 13 March 2024.

Should you have any queries, please do not hesitate to contact the undersigned at 2859 5409.

Yours faithfully
MEINHARDT INFRASTRUCTURE AND ENVIRONMENT LTD


Claudine Lee
Independent Environmental Checker

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The Aurecon logo features a green square above the letter 'a' in the word 'aurecon', which is written in a bold, dark grey sans-serif font.

Ref: P521530-0000-REP-NN-0085

13 March 2024

By Email

Meinhardt Infrastructure & Environment Ltd.
10/F Genesis
33-35 Wong Chuk Hand Road
Hong Kong

Attn: Ms. Claudine Lee,

Dear Claudine,

Re: Contract No. EP/SP/77/15
Northeast New Territories Landfill Extension
Submission of Monthly Environmental Monitoring and Audit Report (No.15) – February
2024

In accordance with the requirement specified in Condition 3.3 of Environmental Permit No. EP-292/2007 and Further Environmental Permit No. FEP-02/292/2007, we are pleased to submit the certified “Monthly Environmental Monitoring and Audit Report (No.15) – February 2024” dated 13 March 2024 for your verification.

Should you require any further information or clarification, please do not hesitate to contact the undersigned or our Mr. Keith Chau on 3664 6788.

Yours faithfully,
For and on behalf of
Aurecon Hong Kong Limited

A handwritten signature in blue ink, appearing to read 'Fredrick Leong', is positioned above the printed name and title.

Fredrick Leong
Environmental Team Leader

Encl.

1. Monthly Environmental Monitoring and Audit Report (No.15) – February 2024

cc.

1. Veolia (Contractor) – Mr. Matt Choy (By email: matt.choy@veolia.com)

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Document control							aurecon
Report title		Monthly Environmental Monitoring and Audit Report (No. 15) – February 2024					
Document ID		Project number					
File path							
Client		Veolia Hong Kong Holding Ltd.					
Client contact		Client reference					
Rev	Date	Revision details/status	Author	Reviewer	Verifier (if required)	Approver	
0	7 March 2024	Submit to IEC	J Man	K.Chau		FL	
1	14 March 2024	Submit to IEC	J Man	K.Chau		FL	
Current revision		1					

Approval			
Reviewer's signature		Approver's signature	
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Title	Associate, Environmental	Title	Environmental Team Leader

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Executive Summary

Aurecon Hong Kong Limited (Aurecon) was appointed to undertake the role of Environmental Team (ET) and carry out Environmental Monitoring and Audit for the North East New Territories (NENT) Landfill Extension.

The construction phase and EM&A programme of the Project commenced on 1 December 2022.

This 15th Monthly EM&A Report presents the EM&A works conducted from 1 to 29 February 2024 in accordance with the EM&A Manual.

Summary of Construction Works undertaken during Report Period

The major construction works undertaken during the reporting period include:

-	Material loading and unloading, site traffic at Portion A, SBA to alternative disposal ground
-	Construction of site buildings at Portion D
-	Site clearance at Portion A, B2/E1, E3-1 & E4
-	Installation of permanent fencing at Portion A, B1 & E4
-	Site formation at Portion A & E3-1
-	Tree felling at Portion B2/E1, E3-1 & E4
-	Shotcreting (Permanent and Temporary)
-	Soil Nail Installation at Portion A, B2/E1 & E4

Environmental Monitoring and Audit Progress

A summary of the monitoring activities in this reporting period is listed below:

Items	Times	Date
- Air Quality Monitoring during normal weekdays at each monitoring station	5 times	3, 9, 15, 21 & 27 February 2024
- Construction Noise Monitoring during normal weekdays at each monitoring station	4 times	9, 15, 21 & 27 February 2024
- Surface Water Quality Monitoring during normal weekdays at each monitoring station	1 time	15 February 2024
- Landfill Gas Monitoring during normal weekdays for Construction Works	20 times	1 to 3, 5 to 8, 15 to 17, 19 to 24, 26 to 29 February 2024
- Joint Environmental Site Inspection	4 times	5, 15, 19 & 26 February 2024

Environmental Exceedance

Air Quality, Noise, Surface Water Quality Monitoring & Landfill Gas Monitoring

No exceedance of the Action and Limit Levels were recorded at designated monitoring stations during the reporting period.

Environmental Non-Conformance/Complaint/Summons and Prosecution

No non-compliance event, complaint and summons/prosecutions were recorded during the reporting period.

Reporting Change

There was no reporting change in the reporting period.

Future Key Issues

Works to be undertaken in the next month include:

- Material loading and unloading, site traffic at Portion A, SBA to alternative disposal ground
- Construction of site buildings at Portion D
- Site clearance at Portion A, B2/E1, E3-1 & E4
- Installation of permanent fencing at Portion A, B1 & E4
- Site formation at Portion A & E3-1
- Tree felling at Portion B2/E1, E3-1 & E4
- Shotcreting (Permanent and Temporary)
- Soil Nail Installation at Portion A, B2/E1 & E4

Potential environmental impacts arising from the above construction activities are mainly associated with air quality, construction noise, water quality, waste management, landfill gas monitoring, landscape and visual, cultural heritage and ecology.

1 Introduction

1.1 Background

- 1.1.1 The North East New Territories Landfill Extension (the NENTX Project) is located adjacent to the existing North East New Territories (NENT) Landfill at Ta Kwu Ling. The extension site is located in a valley covering mainly the existing NENT Landfill Stockpile and Borrow Area that was formed to the east of the existing landfill as part of the original site development of the landfill, and layout plan shown in **Figure 1**.
- 1.1.2 The NENTX is a designated project. The Environmental Impact Assessment (EIA) Report (AEIAR-111/2007) and an Environmental Monitoring and Audit Manual were approved on 20 September 2007. The project is governed by an Environmental Permit (EP) (EP-292/2007) which was granted on 26 November 2007. A further of EP (FEP) was applied and the FEP (FEP-01/292/2007) was subsequently granted on 28 April 2022. Another further of EP (FEP-02/292/2007) was subsequently granted on 23 August 2023.
- 1.1.3 In accordance with the requirements specified in Section 2.7 to 2.11 and Section 12.3 of the approved Environmental Monitoring and Audit (EM&A) Manual and Environmental Permit and Further Environmental Permit (EP and FEP) Condition 3.3, Monthly EM&A report should be submitted to the Director of Environmental Protection (DEP), within 2 weeks after the end of the reporting month. The submissions shall be certified by the Environmental Team (ET) Leader and verified by the Independent Environmental Checker (IEC).
- 1.1.4 The construction phase and EM&A programme of the Project commenced on 1 December 2022.

1.2 Nature, Scale and Scope of the captioned Designated Project

- 1.2.1 The Nature, Scale and Scope of the captioned Designated Project is presented in **Table 1-1**.

Table 1-1 Nature, Scale and Scope of the captioned Designated Project

Item(s)	Content
Nature of Designated Project	Construction and operation of a landfill for waste as defined in the “Waste Disposal Ordinance” (Cap. 354)
Scale and Scope of Designated Project	<p>The Project mainly consists of the followings: -</p> <p>Construction and operation of a landfill extension of about 70 hectares with a target void space of at least 19 million cubic metres on the eastern side of the existing NENT Landfill, including the followings: -</p> <ol style="list-style-type: none"> i. Site formation and preparation; ii. Installation of liner system; iii. Installation of leachate collection, treatment and disposal facilities; iv. Installation of gas collection, utilization and management facilities; v. Utilities provisions and drainage diversion; vi. Landfilling operation; vii. Restoration and aftercare in subsequent stages; and viii. Measures to mitigate environmental impacts as well as environmental monitoring and auditing to be implemented.

1.3 Purpose of this Report

- 1.3.1 This is the 15th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from 01 to 29 February 2024.

1.4 Structure of the Report

- 1.4.1 The structure of the report is as follows:

Section 1 – Introduction

- details the background, purpose and structure of the report.

Section 2 – Project Information

- summarises background and scope of the Project, site description, project organization and contact details, construction programme, the construction works undertaken and the status of Environmental Permit(s)/License(s) during the reporting period.

Section 3 – Air Quality Monitoring

- Construction Dust

Section 4 – Noise Monitoring

Section 5 – Water Quality Monitoring

- Groundwater Monitoring
- Surface Water Monitoring

Section 6 – Waste Management

Section 7 – Landfill Gas Monitoring

Section 8 – Landscape and Visual

Section 9 – Cultural Heritage

Section 10 – Ecological Monitoring

Section 11 – Site Inspection and Audit

Section 12 – Environmental Non-Conformance

Section 13 – Implementation Status on Environmental Mitigation Measures

Section 14 – Future Key Issues

Section 15 – Conclusion

2 Project Information

2.1 Construction Activities

2.1.1 Construction programme and a summary of the major construction activities undertaken in this reporting period is shown in **Appendix A**.

2.2 Project Organization & Management Structure

2.2.1 The Project Organization Chart & Management Structure are shown in **Appendix B**. The key personnel contact information is summarized in **Table 2-1**.

Table 2-1 Contact Information of Key Personnel

Party	Name	Contact Number
Contractor (Veolia Hong Kong Holding Ltd.)	Mr. Matt Choy	2902 5296
Independent Environmental Checker (IEC) (Meinhardt Infrastructure and Environment Ltd.)	Ms. Claudine Lee	2859 5409
Environmental Team Leader (ETL) (Aurecon Hong Kong Limited)	Mr. Fredrick Leong	3664 6888

2.3 Status of Submission required under the FEP & EP during reporting period

2.3.1 The status of statutory environmental compliance with the EP conditions under the EIAO, submission status under the FEP & EP during reporting period are presented in **Table 2-2**. The detail status of statutory environmental compliance with the EP conditions under the EIAO, submission status under the FEP & EP for NENTX project are shown in **Appendix C**.

Table 2-2 Status of Submissions required under the FEP & EP during Reporting Period

FEP Condition	EP Condition	Submission / Measures	Status
2.1	2.3	Management Organization of Main Construction Companies	Submitted
2.2	2.4	Setting up of Community Liaison Group (CLG)	Community Liaison Group was set up.
2.3	2.5	Submission of EM&A Manual	Submitted
2.5	2.7	Submission of Vegetation Survey (Transplantation Proposal)	Submitted
2.6	2.8	Submission of translocation proposal	Submitted
2.7	2.9	Submission of Transplantation Report and Post-Transplantation Monitoring	Submitted
2.9	2.11	Submission of Detailed Landfill Gas Hazard Assessment Report	Submitted
2.10	2.12	Submission of Waste Management Plan	Submitted
3.2	3.2	Submission of Baseline Monitoring Report	Submitted
3.3	3.3	Submission of Monthly EM&A Report	Submitted

2.4 Status of Environmental Approval Document

2.4.1 A summary of the relevant valid permits, licences, and/or notifications on environmental protection for this Project since the granting of the FEP & EP is presented in **Table 2-3**.

Table 2-3 Summary of the Relevant Valid Permits, Licences, and/or Notifications on Environmental Protection

Permit / Licenses / Notification	Reference	Expiry Date	Remark
Environmental Permit (EP)	EP-292/2007	Throughout the Contract	Permit granted on 26 November 2007
Further Environmental Permit (FEP)	FEP-01/292/2007	Throughout the Contract	Permit granted on 28 April 2022
	FEP-02/292/2007	Throughout the Contract	Permit granted on 23 August 2023
Notification of Construction Works as required under Air Pollution Control (Construction Dust) Regulation	479809	Throughout the Construction Phase	Notified on 13 May 2022
Registration of Waste Producer under Waste Disposal Ordinance	7043692	Throughout the Contract	Registered on 13 April 2022
Registration as Chemical Waste Producer	5213-642-P1034-18	Throughout the Contract	Registered on 11 July 2022
Effluent Discharge License under Water Pollution Control Ordinance	WT00042301-2022	31 October 2027	Permit granted on 18 October 2022 Variation of Licence (Permit granted on 7 February 2023)

2.5 Environmental Monitoring and Audit Progress

2.5.1 A summary of the monitoring activities in this reporting period is presented in **Table 2-4**.

Table 2-4 Summary of the Monitoring Activities in this Reporting Period

Items	Times	Date
- Air Quality Monitoring during normal weekdays at each monitoring station	5 times	3, 9, 15, 21 & 27 February 2024
- Construction Noise Monitoring during normal weekdays at each monitoring station	4 times	9, 15, 21 & 27 February 2024
- Surface Water Quality Monitoring during normal weekdays at each monitoring station	1 time	15 February 2024
- Landfill Gas Monitoring during normal weekdays for Construction Works	20 times	1 to 3, 5 to 8, 15 to 17, 19 to 24, 26 to 29 February 2024
- Joint Environmental Site Inspection	4 times	5, 15, 19 & 26 February 2024

Air Quality

5 sets of 1-hr & 24-hr TSP construction dust measurement were carried out at each monitoring stations during normal weekdays of the reporting period. No Action / Limit Level exceedance for 1-hr & 24-hr TSP impact monitoring was recorded during the period.

Noise

4 sets of 30-minute construction noise measurement were carried out at each monitoring stations during normal weekdays of the reporting period. No exceedance of Action and Limit Levels of construction noise was recorded during the reporting period.

Groundwater

Site clearance of future landfilling area is in progress. The installation of groundwater monitoring boreholes will be installed after the site formation work of the landfilling area. The target commencement period of groundwater monitoring will be in 2026. No groundwater monitoring is required before the completion of site formation work of the landfilling area.

Surface Water Quality

1 set of surface water quality measurement were carried out at each monitoring stations during normal weekdays of the reporting period. No exceedance of Action and Limit Levels of surface water quality at each monitoring stations was recorded during the reporting period.

Landfill Gas

20 sets of landfill gas measurement were carried out at the designated monitoring locations during normal weekdays of the reporting period. No exceedance of Action and Limit Levels of landfill gas was recorded during the reporting period.

Landscape and Visual

All the specified and affected LCAs, LRs and VSRs have been monitored during the reporting period. No exceedance of Action and Limit Levels of landscape and visual was recorded during the reporting period.

Cultural Heritage

Implementation of the mitigation measures during construction phase of the Project has been monitored through the regular site inspection/audit.

Ecology

Implementation of the mitigation measures during construction phase of the Project has been monitored through the regular site inspection/audit.

Environmental Site Inspection

4 weekly environmental site inspections were carried out during the reporting period. A joint environmental site inspection was carried out by the representatives of the Employer's Representative (ER), the Contractor, IEC and the ET on 19 February 2024. The Contractor has generally implemented part of the mitigation measures as recommended. No site inspection was conducted by Environmental Protection Department-Regional Office (North) (EPD-RNG) during the reporting period.

3 Air Quality Monitoring

3.1 Construction Dust

3.1.1 Monitoring Requirement

3.1.1.1 In accordance with the EM&A Manual, 1-hr & 24-hr Total Suspended Particulates (TSP) levels should be measured at the designated air quality monitoring stations in every 6 days to ensure that any deteriorating air quality could be readily detected, and timely action shall be undertaken to rectify such situation. For 1-hr TSP monitoring, the sampling frequency of at least three times in every six-days should be undertaken when the highest dust impact occurs. The specific time to start and stop the 24-hr TSP monitoring shall be clearly defined for each location.

3.1.2 Monitoring Parameters, Frequency and Location

3.1.2.1 According to the EM&A Manual, three monitoring stations namely AM(D)1, AM(D)2 and AM(D)3 are selected for the impact monitoring.

3.1.2.2 A baseline monitoring plan has been submitted to IEC and EPD on 31 May 2022 including the proposal with justification of change of monitoring locations. Due to limited access to the original monitoring locations at AM(D)1, AM(D)2 and AM(D)3, the adjusted stations at AM1, AM2 and AM3 were agreed with IEC prior to the baseline and impact monitoring. The locations of adjusted dust monitoring locations are shown in **Figure 2**.

3.1.2.3 The detailed monitoring schedule is shown in **Appendix D**. The locations of dust monitoring stations are shown in **Table 3-1**. The monitoring parameters, frequency and duration are shown in **Table 3-2**.

Table 3-1 Locations of Dust Monitoring Stations

Monitoring Station	Representative For	Monitoring Parameters
AM1	Tung Lo Hang	1-hr and 24-hr TSP
AM2	Heung Yuen Wai	1-hr and 24-hr TSP
AM3	Wo Keng Shan Tsuen	1-hr and 24-hr TSP

Remarks:

The contractor passed correspondence including original monitoring locations specified on the Approved EM&A Manual to the village representatives on 26 April 2022. After a meeting with Ta Kwu Ling District Rural Committee (RC) Chairman, representative from the RC and a few villagers on 1 May 2022, all the Village Heads of Wo Keng Shan Tsuen, Heung Yuen Wai and Lin Ma Hang verbally refused to accept our proposal for installation of dust and / or noise monitoring equipment within or next to their villages, for the baseline & impact monitoring.

AM(D)1 Tung Lo Hang, AM(D)2 Heung Yuen Wai, AM(D)3 Wo Keng Shan Tsuen are the air monitoring stations for the construction phase EM&A programme as identified in the approved EM&A Manual for the Project. The access to Tung Lo Hang, Heung Yuen Wai and Wo Keng Shan Tsuen were denied. A search for alternative air monitoring locations (AM1, AM2 & AM3) was carried out during the site visit.

The Baseline Monitoring Plan has been submitted to IEC and EPD including the proposal of change of monitoring locations on 31 May 2022. This arrangement was conducted between baseline and impact monitoring and has been agreed by the Independent Environmental Checker (IEC) and no comment received from EPD.

Due to the adjustment of the location of AM(D)1, AM(D)2 & AM(D)3 to AM1, AM2 & AM3, the measured air quality levels at AM1, AM2 & AM3 would represent the air quality levels at AM(D)1, AM(D)2 & AM(D)3.

Table 3-2 Dust Impact Monitoring Parameters, Frequency and Duration

Monitoring Station	Parameter	Frequency and Duration
AM1, AM2, AM3	1-hr TSP	At least 3 times per 6 days
	24-hr TSP	1 time per 6 days

3.1.3 Monitoring Equipment

3.1.3.1 High volume samplers (HVSs) were used for carrying out 24-hr TSP monitoring. For 1-hr TSP monitoring, direct reading dust meters were used to measure 1-hr TSP levels.

3.1.3.2 **Table 3-3** summarises the equipment that were used in the dust monitoring programme. The calibration certificates are shown in **Appendix E**.

Table 3-3 Dust Monitoring Equipment

Equipment	Model	Expiry Date	Monitoring Station
High Volume Sampler (HVS)	TE-5170X (S/N: 1105)	3 Mar 2024	AM1
	TE-5170X (S/N: 1106)		AM2
	TE-5170X (S/N: 1856)		AM3
Direct Reading Dust Meter	Sibata LD-5R (S/N: 0Z4545)	27 Nov 2024	AM1 to AM3
	Sibata LD-5R (S/N: 882106)		
	Sibata LD-5R (S/N: 942532)		
Calibration Kit (for HVS)	TE-5028A (S/N: 3702)	31 Mar 2024	AM1 to AM3

Remarks:

The Expiry Date of Calibration Kit (for HVS) reflected that the calibration certificate fulfils the bi-monthly calibration interval requirement for the HVS.

3.1.4 Monitoring Methodology

1-hr TSP Monitoring

3.1.4.1 The 1-hr TSP impact monitoring was conducted using a portable direct reading dust meter.

Measuring Procedures

- 3.1.4.2 The measuring procedures of the 1-hr dust meter has been undertaken in accordance with the Manufacturer's Instruction Manual as follows:

Procedure of starting monitoring

- Place the 1-hr dust meter at least 1.3m above ground;
- Turn on the "On/Off" button at the side of instrument. Program will be changed to "BG" mode and leave it for 1 minute.
- Pull out the Suction adaptor and turn the button at the side. Cover with hand at the suction adaptor measure the background for 10 seconds.
- Press "UP" and "DOWN" for choosing "SPAM Mode" for SPAM Measurement.
- Press "Up" and "Down" to select "Measurement Mode" with 60 minutes interval and unit in ug/m3.
- Press "Start/Stop" to start monitoring.

Procedure of setting measurement timer

- Press "Up" or "Down" to find "Setting LOG".
- Select "Record Cycle" and change the record time subject to different project requirement. For example, setting the record cycle as 60 minutes for normal operation.
- Press "ESCAPE" back to the main page.
- Press "Up" or "Down" to access "Measurement Timer" and select "Measurement time" to change the time to 3 hours.
- Information such as sampling date, time, count value and site condition will be recorded during the monitoring period.

Calibration & Maintenance

- 3.1.4.3 The direct reading dust meters will be verified against calibrated high volume samples (HVSs) annually. A 2-day, three 3-hour measurement results per day from direct reading dust meter will be taken to compare with the sampling results from the HVS. The correlation between the direct reading dust meter and the HVS will then be concluded. By accounting for the correlation factor, the direct reading dust meter will be considered to achieve comparable results as that of the HVS.
- 3.1.4.4 All digital dust indicator will be calibrated with on-site HVS annually. Calibration certificate will be provided after calibration. The Calibration process shall eyewitness with the representative of ET & IEC.

Quality Audit

- 3.1.4.5 Checklist of regular checking for digital dust meter will be conducted bi-weekly by environmental technician to ensure the all-digital dust meter are in good condition and submitted to supervisors. All checklists will be kept by supervisors.

- 3.1.4.6 Logbook is provided to environmental technician record the transferal of equipment to other colleagues, reporting to supervisors is required.

24-hr TSP Monitoring

- 3.1.4.7 The 24-hr TSP monitoring has been conducted using a High-Volume Sampler (HVS).

Measuring Procedures

- 3.1.4.8 The HVS has been set-up at the monitoring location with a fixed power supply for operation. The measuring procedures of the 24-hr TSP measurements has been undertaken in accordance with the specifications listed in the EM&A Manual. Each HVS includes a motor, a filter holder, a flow controller and a sampling inlet in accordance with the performance specification of the USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50), Appendix B. The measuring procedures of the 24-hr dust meter was undertaken in accordance with the Manufacturer's Instruction Manual as follows:

- The power supply will be checked to ensure the HVS works properly;
- The filter holder and the area surrounding the filter will be cleaned;
- The filter holder will be removed by loosening the four bolts and a new filter on a supporting screen will be aligned carefully;
- The filter will be properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter;
- The swing bolts will be fastened to hold the filter holder down to the frame. The pressure applied should be sufficient to avoid air leakage at the edges;
- The shelter lid will be closed and secured with the aluminium strip;
- The HVS will be warmed-up to establish run-temperature conditions;
- A new flowrate record sheet will be set into the flow recorder;
- The programmable timer will be set for a sampling period of 24 hour, and the starting time, weather condition and the filter number will be recorded;
- The initial elapsed time will be recorded;
- At the end of sampling, the sampled filter will be removed carefully and folded in half-length so that only surfaces with collected particulate matter will be in contact;

- The sample will be placed in a clean plastic envelope and sealed;
- All monitoring information will be recorded on a standard data sheet; and
- The filters will be taken back to HOKLAS accredited laboratory for analysis.

- 3.1.4.9 In addition, site conditions and dust sources were recorded in a standard form for direct input into a database.

Calibration & Maintenance

- 3.1.4.10 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.

3.1.4.11 Initial calibration of dust monitoring equipment shall be conducted upon installation and thereafter at bi-monthly intervals. The transfer standard shall be traceable to the internationally recognized primary standard and be calibrated annually.

The detail procedure of calibration of HVS is listed below:

1. Make sure the electrical circuit is connected properly. The motor should be directly connected to the power source.
2. Open the top cover and unlock the screws at the four corners.
3. Install the orifice and adapter plate to high volume air sample. Tighten the nut securely. Turn the knob of orifice clock-wise to close the four holes on the bottom open.
4. Hold the water manometer on the cover of mass flow controller vertically. Connect one side of a water manometer to the pressure tap on the side of the orifice with a rubber vacuum tube. Leave opposite side of the manometer open to the atmosphere.
5. Turn on the sampler
6. Five flow rates are achieved by changing the different plates to change the resistance. Record the manometer reading and the reading from continuous flow recorder. At least 5 sets of data should be recorded.

3.1.4.12 The Calibration process shall eyewitness with the representative of ET & IEC.

3.1.5 Monitoring Results

3.1.5.1 The impact dust monitoring results are summarized in **Table 3-4** and **Table 3-5**. The monitoring data together with graphical presentations are presented in **Appendix F** and **Appendix G**.

Table 3-4 Summary of Impact 1-hr TSP Monitoring Results

Month	Average 1-hr TSP Concentration, $\mu\text{g}/\text{m}^3$ (Range)		
	Dust Monitoring Station		
	AM1	AM2	AM3
Feb 2024	28 (24 – 36)	50 (39 – 56)	54 (40 – 62)
Action Level	>285	>279	>285
Limit Level	>500		

Table 3-5 Summary of Impact 24-hr TSP Monitoring Results

Month	Average 24-hr TSP Concentration, µg/m ³ (Range)		
	Dust Monitoring Station		
	AM1	AM2	AM3
Feb 2024	98 (86 – 118)	118 (107 – 123)	117 (104 – 143)
Action Level	>164	>152	>163
Limit Level	>260		

3.1.5.2 The Summary of Impact 1-hr & 24-hr TSP Exceedance during the reporting period are shown in **Table 3-6**. The Notification of Environmental Quality Limits Exceedances are presented in **Appendix H**.

Table 3-6 Summary of Impact 1-hr & 24-hr TSP Exceedance during the Reporting Period

Dust Monitoring Station		AM1		AM2		AM3	
Level Exceedance		Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level
Parameters		Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level
1-hr TSP	Exceedance Date	-	-	-	-	-	-
	Exceedance Count	0	0	0	0	0	0
24-hr TSP	Exceedance Date	-	-	-	-	-	-
	Exceedance Count	0	0	0	0	0	0

Remarks: * equal to non-project related

3.1.5.3 No Action / Limit Level exceedance for 1-hr & 24-hr TSP impact monitoring at AM1, AM2 & AM3 was recorded during the period.

3.1.6 Wind Data Monitoring

3.1.6.1 During the monitoring period, wind data from existing weather station in the vicinity of the designated monitoring location, i.e Ta Kwu Ling station operated by Hong Kong Observatory was adopted. It is considered that the wind data obtained from Ta Kwu Ling station are representative of the Project area and could be used for the construction dust monitoring programme for the Project. The results for wind data monitoring are presented in **Appendix I**.

3.1.7 Recommended Mitigation Measures

3.1.7.1 The recommended dust mitigation measures from EIA report are listed as followed:

- The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation.
- Dust emission from construction vehicle movement is confined within the worksites area.
- Watering facilities will be provided at every designated vehicular exit point.
- Good site practice is recommended during construction phase.

3.1.8 Event and Action Plan

3.1.8.1 Should non-compliance of the criteria occur, action in accordance with the action plan in **Table 3-7** shall be carried out.

Table 3-7 Event and Action Plan for Dust Impact

Event	ET	IEC	Contractor
Exceedance of Action Level			
Exceedance for one sample	<ul style="list-style-type: none"> • Identify source • Prepare Notification of Exceedance • Inform IEC and Contractor • Repeat measurement to confirm findings • Increase monitoring frequency to daily if exceedance is due to the Project and continue until the monitoring results reduce to below action level 	<ul style="list-style-type: none"> • Verify the Notification of Exceedance • Check monitoring data submitted by ET and Contractor's working methods • Discuss with ET and Contractor on proposed remedial measures 	<ul style="list-style-type: none"> • Rectify any unacceptable practice • Amend working methods if appropriate
Exceedance for two or more consecutive samples	<ul style="list-style-type: none"> • Identify source • Prepare Notification of Exceedance • Inform Contractor and IEC • Repeat measurements to confirm findings • Increase monitoring frequency to daily if exceedance is due to the Project and continue until the monitoring results reduce to below action level • Discuss with IEC for remedial action required • Ensure remedial measures are properly implemented • Continue monitoring at daily intervals if exceedance is due to the Project • If no exceedance for 3 consecutive days, cease additional monitoring 	<ul style="list-style-type: none"> • Verify the Notification of Exceedance • Check monitoring data submitted by ET and Contractor's working methods • Discuss with ET and Contractor on proposed remedial measures • Review with analysed results submitted by ET • Review the proposed remedial measures by Contractor • Supervise the implementation of remedial measures 	<ul style="list-style-type: none"> • Submit proposals for remedial actions to IEC within 3 working days of notification • Implement the agreed proposals • Amend proposal if appropriate

Event	ET	IEC	Contractor
Exceedance of Limit Level			
Exceedance for one sample	<ul style="list-style-type: none"> • Identify source • Prepare Notification of Exceedance • Inform IEC and Contractor • Repeat measurement to confirm findings • Increase monitoring frequency to daily if exceedance is due to the Project and continue until the monitoring results reduce to below limit level • Assess effectiveness of Contractor's remedial actions and keep EPD and IEC informed of the results 	<ul style="list-style-type: none"> • Verify the Notification of Exceedance • Check monitoring data submitted by ET and Contractor's working methods • Discuss with ET and Contractor potential remedial actions • Supervise the implementation of remedial measures 	<ul style="list-style-type: none"> • Take immediate action to avoid further exceedance • Submit proposals for remedial actions to IEC within 3 working days of notification • Implement the agreed proposals • Amend proposal if appropriate
Exceedance for two or more consecutive samples	<ul style="list-style-type: none"> • Identify source • Prepare Notification of Exceedance • Inform IEC and EPD the causes and actions taken for the exceedances • Discuss with IEC for remedial action required • Ensure remedial measures are properly implemented • Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and informed of the results • Increase monitoring frequency to confirm findings • If exceedance stops, cease additional monitoring 	<ul style="list-style-type: none"> • Verify the Notification of Exceedance • Check monitoring data submitted by ET and Contractor's working methods • Discuss amongst ET and Contractor on the potential remedial actions. • Review Contractor's remedial actions whenever necessary to assure their effectiveness • Supervise the implementation of remedial measures 	<ul style="list-style-type: none"> • Take immediate action to avoid further exceedance • Submit proposals for remedial actions to IEC of notification • Implement the agreed proposals • Resubmit proposals if problem still not under control • Stop the relevant activity of works until the exceedance is abated

4 Noise Monitoring

4.1 Monitoring Requirement

4.1.1 In accordance with the EM&A manual, noise impact monitoring shall be carried out at 2 monitoring stations NM1 and NM2 once a week during normal construction working hour (0700-1900 Monday to Saturday). The minimum logging interval shall be 30 minutes with average of 6 consecutive Leq 5 mins. L10 and L90 shall also be measured at 5 mins intervals.

4.2 Monitoring Locations, Parameters and Frequency

4.2.1 According to the EM&A Manual, two monitoring stations namely NM1 and NM2 are selected for the impact monitoring.

4.2.2 A baseline monitoring plan has been submitted to IEC and EPD on 31 May 2022 including the proposal with justification of change of monitoring locations. Due to limited access to the original monitoring locations at NM1 and NM2, the adjusted stations at NM1a and NM2a were agreed with IEC prior to the baseline and impact monitoring. The noise monitoring locations are summarized in **Table 4-1** and shown in **Figure 2**.

4.2.3 The detailed monitoring schedule is shown in **Appendix D**. The frequency and duration are shown in **Table 4-2**.

Table 4-1 Noise Monitoring Locations

Monitoring Station	Representative for	Type of Measurement
NM1a	Wo Keng Shan Tsuen	Free field
NM2a	Lin Ma Hang	Free field

Remarks:

The contractor passed correspondence including original monitoring locations specified on the Approved EM&A Manual to the village representatives on 26 April 2022. After a meeting with Ta Kwu Ling District Rural Committee (RC) Chairman, representative from the RC and a few villagers on 1 May 2022, all the Village Heads of Wo Keng Shan Tsuen, Heung Yuen Wai and Lin Ma Hang verbally refused to accept our proposal for installation of dust and / or noise monitoring equipment within or next to their villages, for the baseline & impact monitoring.

NM1 Wo Keng Shan Tsuen & NM2 Lin Ma Hang are the noise monitoring stations for the construction phase EM&A programme as identified in the approved EM&A Manual for the Project. The access to Tung Lo Hang, Heung Yuen Wai and Wo Keng Shan Tsuen were denied. A search for alternative noise monitoring locations (NM1a & NM2a) was carried out during the site visit.

The Baseline Monitoring Plan has been submitted to IEC and EPD including the proposal of change of monitoring locations on 31 May 2022. This arrangement was conducted between baseline and impact monitoring and has been agreed by the Independent Environmental Checker (IEC) and no comments received from EPD. Noise measurement at NM1a & NM2a will be considered as free-field and a correction of +3dB(A) would be made to the noise monitoring results.

Due to the adjustment of the location of NM1 & NM2 to NM1a & NM2a, the measured noise levels at NM1 & NM2 would represent the noise levels at NM1 & NM2.

Table 4-2 Noise Monitoring Parameters, Frequency and Duration

Monitoring Station	Parameter	Frequency and Duration
NM1a and NM2a	L _{Aeq} (30mins) average of 6 consecutive L _{eq} (5min); L10 (5min) & L90 (5min)	Once a week during normal construction working hour (0700-1900 Monday to Saturday)

4.3 Monitoring Equipment

- 4.3.1 Integrating Sound Level Meters (SLMs) was used for noise impact monitoring. The SLM complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications shall be used for carrying out noise monitoring. The accuracy of the SLM was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements shall be accepted as valid only if the calibration level from prior to and after the noise measurement agrees to within 1.0dB.
- 4.3.2 A portable wind speed meter was used for measuring wind speeds in m/s.
- 4.3.3 **Table 4-3** summarises the equipment that have been used in the impact noise monitoring programme. The calibration certificates are shown in **Appendix E**.

Table 4-3 Noise Monitoring Equipment

Equipment	Model	Expiry Date
Sound Level Meter	NTi XL2 (S/N: A2A-09696-E0)	3 Apr 2024
Acoustic Calibrator	Rion NC-75 (S/N: 34724245)	2 Aug 2024
Anemometer	RS PRO RS-90 (S/N: 210722208)	12 Feb 2025

4.4 Monitoring Methodology

- 4.4.1 The details of noise measurement procedures are described as follows:
- Free-field measurements were made at the monitoring locations.
 - For free field, the Sound Level Meter was set at a height of 1.2 m above the ground. The battery condition was checked to ensure the proper functioning of the meter.
 - Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - Frequency weighting: A
 - Time weighting: Fast
 - Measurement time: 5 minutes (Leq (30-min) would be determined for daytime noise by calculating the logarithmic average of six Leq (5min) data.)
 - Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after recalibration 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.
- At the end of the monitoring period, the Leq, L10 and L90 shall be recorded. In addition, site conditions and noise sources should be recorded on a standard record sheet.
- All noise monitoring will be conducted with the wind speed not exceeding 5m/s and no gusts exceeding 10m/s.

Calibration & Maintenance

- 4.4.2 The sound level meter, sound calibrator, and anemometer should be properly maintained to ensure that the equipment and a continuous power supply were in good working condition. The sound level meter and sound calibrator will be calibrated annually. The anemometer will be calibrated two years interval in accordance with the HOKLAS Supplementary Criteria No.2. Calibration certificate will be provided after calibration.
- 4.4.3 The microphone head of the sound level meter and calibrator should be cleaned with a soft cloth at quarterly intervals.

4.5 Monitoring Results

- 4.5.1 The impact noise monitoring results are summarized in **Table 4-4**. The monitoring data together with graphical presentations are presented in **Appendix F** and **Appendix G**.

Table 4-4 Summary of Noise Monitoring Results during Normal Working Hours (07:00-19:00, Monday to Saturday)

Month	Average Leq, 30min, dB(A) (Range)	
	Noise Monitoring Station	
	NM1a	NM2a
Feb 2024	60.7 (60.1 – 61.3)	57.0 (55.8 – 57.8)
Action Level	When one documented complaint is received	
Limit Level	>75dB(A)	

Remark:

- (1) * A correction of +3 dB(A) was made to the free field measurements
- (2) If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

- 4.5.2 No exceedance of Action and Limit Levels of construction noise was recorded during the reporting period. Therefore, there was no record of Notification of Environmental Quality Limits Exceedance in the **Appendix H**.
- 4.5.3 No particular observations are identified near the monitoring stations during the monitoring period.
- 4.5.4 The Summary of Impact Noise Exceedance are shown in **Table 4-5**.

Table 4-5 Summary of Impact Noise Exceedance during the Reporting Period

Noise Monitoring Station		NM1(a)		NM2(a)	
Parameters	Level Exceedance	Action Level	Limit Level	Action Level	Limit Level
	LA _{eq} (30mins)	Exceedance Date	-	-	-
Exceedance Count		0	0	0	0

Remarks: * equal to non-project related

4.5.5 No exceedance of Action and Limit Levels of construction noise was recorded during the reporting period. Therefore, there was no record of Notification of Environmental Quality Limits Exceedance in the **Appendix H**.

4.6 Recommended Mitigation Measures

4.6.1 The recommended noise mitigation measures from EIA report are listed as followed:

1. Use of good site practices to limit noise emissions by considering the following:
 - Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme;
 - Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;
 - Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs;
 - Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;
 - Mobile plant should be sited as far away from NSRs as possible and practicable;
 - Material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.
2. Select “Quiet plants” which comply with the BS 5228 Part 1 or TM standards.

4.7 Event and Action Plan

4.7.1 Should non-compliance of the criteria occurs, action in accordance with the action plan in **Table 4-6** shall be carried out.

Table 4-6 Event and Action Plan for Construction Noise Monitoring

Event	ET	IEC	Contractor
Exceedance of Action Level	<ul style="list-style-type: none"> Identify source, investigate the causes of exceedance Prepare Notification of Exceedance Inform IEC and Contractor Report the results of investigation to IEC, and Contractor Discuss with Contractor and IEC for formulate remedial measures Ensure remedial measures are properly implemented Have additional monitoring if exceedance is due to the Project. If exceedance stops, cease additional monitoring 	<ul style="list-style-type: none"> Verify the Notification of Exceedance Review the analysed results submitted by ET Discuss with ET, and Contractor on the potential remedial actions Review the proposed remedial measures Supervise the implementation of remedial measures 	<ul style="list-style-type: none"> Submit noise mitigation proposals to IEC Implement the agreed noise mitigation proposals
Exceedance of Limit Level	<ul style="list-style-type: none"> Identify source, investigate the causes of exceedance Prepare Notification of Exceedance Inform IEC and Contractor Repeat measurements to confirm findings Discuss with Contractor and IEC for remedial measures Ensure remedial measures are properly implemented Assess effectiveness of Contractor's remedial actions and keep IEC and EPD informed of the results Have additional monitoring if exceedance is due to the Project. If exceedance stops, cease additional monitoring 	<ul style="list-style-type: none"> Verify the Notification of Exceedance Review the analysed results submitted by ET Discuss with ET, and Contractor on the potential remedial actions Review the proposed remedial measures Supervise the implementation of remedial measures 	<ul style="list-style-type: none"> Take immediate action to avoid further exceedance Submit proposals for remedial actions to IEC of notification Implement the agreed proposals Resubmit proposals if problem still not under control Stop the relevant portion of works as determined by project proponent until the exceedance is abated.

5 Water Quality Monitoring

5.1 Groundwater Monitoring

5.1.1 Monitoring Requirement

5.1.1.1 In accordance with the EM&A manual, groundwater quality monitoring shall be carried out at least once per month at the 35 designated groundwater monitoring locations (i.e ED1 to ED35). Based on the existing construction programme, site clearance and site formation works for future landfilling area are in progress. The groundwater monitoring locations ED1 to ED35 will be installed after the site formation work of the landfilling area. No groundwater monitoring is required before the completion of site formation work of the landfilling area.

5.2 Surface Water Monitoring

5.2.1 Monitoring Requirement

5.2.1.1 In accordance with the EM&A manual, impact surface water quality monitoring was carried out at the two designated surface water discharge points (i.e WM1 and WM2) for once per month from commencement of construction works of the Project.

5.2.2 Monitoring Locations, Parameters and Frequency

5.2.2.1 Impact surface water monitoring was carried out at WM1 and WM2. The monitoring locations are indicated in **Table 5-1** and **Figure 2**.

5.2.2.2 The monitoring parameters, frequency and duration of surface water quality monitoring are summarized in **Table 5-2**. Detailed monitoring schedule is presented in **Appendix D**.

Table 5-1 Surface Water Quality Monitoring Locations

Monitoring Station	Location	Coordinates (HK Grid)	
		Easting	Northing
WM1	Upstream of Lin Ma Hang River	836665	845020
WM2	Ping Yuen River	835592	844186

Table 5-2 Surface Water Quality Monitoring Parameters, Frequency and Duration

Parameter	Frequency
pH, Electrical conductivity, DO, Turbidity, SS, Alkalinity, COD, BOD ₅ , TOC, Ammonia-nitrogen, TKN, Nitrate, Sulphate, Sulphite, Phosphate, Chloride, Sodium, Mg, Ca, K, Fe, Ni, Zn, Mn, Cu, Pb, Cd, Coliform Count, Oil and Grease	Once per month

5.2.3 Monitoring Equipment

5.2.3.1 The measurements of pH, electrical conductivity (EC), DO, turbidity, water temperature and air temperature were undertaken in situ. In situ monitoring instruments in compliance with the specifications listed under Section 5.5 of the EM&A Manual were used to undertake the surface water quality monitoring for the Project. **Table 5-3** summarises the equipment used in the impact surface water quality monitoring works. Copies of the calibration certificates are attached in **Appendix E**.

Table 5-3 Surface Water Quality Monitoring Equipment

Equipment	Model	Expiry Date
Water Quality Meter	HORIBA U-53 (S/N: PPHNOMXY)	3 Mar 2024
Water Flow Meter	Global Water FP211 (S/N: 22K100858)	26 Mar 2024

5.2.4 Summary of Surface Water Quality Monitoring Procedure

Operational/ Analytical Procedures

5.2.4.1 In general, water samples were collected from within 500 mm of the water surface. Water was collected by a small clean open-mouthed bucket with the lip pointing upstream. Usually, water was then transferred to the sample bottles until they were filled to the top with no remaining air space before the lid was securely screwed on. For samples that were preserved with acid or alkalis prior to transport to the laboratory, the samples bottles were filled to the level specified by the analytical laboratory.

5.2.4.2 Analyses shall be carried out in accordance with methods described in ASTM or APHA - AWWA-WEF Standard.

Laboratory Analytical Methods

5.2.4.3 The testing of parameters presented in **Table 5-4** for all stations was conducted by ALS Technichem (HK) Pty Ltd. (HOKLAS Registration No. 066). Comprehensive quality assurance and control procedures were in place in order to ensure quality and consistency in results. The detection limits are provided in **Table 5-4**.

Table 5-4 Surface Water Monitoring Detection Limits and Limit of Reporting

Parameters	Detection Limit (in EM&A Manual)	Limit of Reporting	Method Reference
pH	0.1	0.1	APHA 4500 H+ B
Electrical conductivity	1 mS/cm	1 mS/cm	APHA 2510 B
Alkalinity	1 mg/L	1 mg/L	APHA 2320 B
COD	10 mg/L	5 mg/L	APHA 5220 C
BOD ₅	3 mg/L	2 mg/L	APHA 5210 B
TOC	1 mg/L	1 mg/L	APHA 5310 B
SS	0.1 mg/L	0.1 mg/L	APHA 2540 D
Ammonia-nitrogen	0.2 mg/L	0.01 mg/L	APHA 4500 NH ₃ G
TKN	0.4 mg/L	0.1 mg/L	APHA 4500Norg: D
Nitrate	0.5 mg/L	0.01 mg/L	APHA 4500 NO ₃ I
Sulphate	5 mg/L	1 mg/L	USEPA 375.4
Sulphite	2 mg/L	2 mg/L	APHA 4500 SO ₃ B
Phosphate	0.01 mg/L	0.01 mg/L	APHA 4500-P B & F
Chloride	0.5 mg/L	0.5 mg/L	USEPA 325.1
Sodium	50 mg/L	50 mg/L	USEPA 6010C
Mg	50 mg/L	50 mg/L	USEPA 6010C
Ca	50 mg/L	50 mg/L	USEPA 6010C
K	50 mg/L	50 mg/L	USEPA 6010C
Fe	50 mg/L	10 mg/L	USEPA 6010C
Ni	1 mg/L	1 mg/L	USEPA 6020A
Zn	10 mg/L	10 mg/L	USEPA 6020A
Mn	1 mg/L	1 mg/L	USEPA 6020A
Cu	1 mg/L	1 mg/L	USEPA 6020A
Pb	1 mg/L	1 mg/L	USEPA 6020A
Cd	0.2 mg/L	0.2 mg/L	USEPA 6020A
Coliform Count	1 cfu/ 100mL	1 cfu/ 100mL	DoE section 7.8, 7.9.4.1 & 3
Oil and Grease	5 mg/L	5 mg/L	APHA 5520 B

QA/ QC Requirements

5.2.4.4 All in situ monitoring instruments were checked, calibrated and certified by a laboratory accredited under HOKLAS or other international accreditation scheme before use, and subsequently re-calibrated at the intervals according to manufacturer's requirement throughout all stages of the surface water quality monitoring programme. Calibration of temperature, DO, salinity, pH and turbidity is conducted in three-month interval. Calibration of water flow is conducted annually. Responses of sensors and electrodes were checked with certified standard solutions before each use. Calibration for a DO meter was carried out before measurement according to the instruction manual of the equipment model. For the on-site calibration of field equipment, the requirements of the BS 1427:2018, "Guide to on-site test methods for the analysis of waters" was observed.

Decontamination Procedures

5.2.4.5 Water sampling equipment used during the course of the monitoring programme was decontaminated by manual washing and rinsed with clean distilled water after each sampling location.

Sampling Management and Supervision

5.2.4.6 All sampling bottles were labelled with the sample ID (including the indication of sampling station), laboratory number and sampling date. Water samples were dispatched to the testing laboratory for analysis as soon as possible after the sampling. All samples were stored in a cool box and kept at less than 4°C but without frozen. All water samples were handled under chain of custody protocols and relinquished to the laboratory representatives at locations specified by the laboratory. The laboratory determination works started within 24 hours after collection of water samples.

Quality Control Measures for Sample Testing

5.2.4.7 The samples testing was performed by ALS Technichem (HK) Pty Ltd. The following quality control programme was performed by the laboratory:

- One method blank; and
- One sample duplicate.

5.2.5 Monitoring Results

5.2.5.1 Impact surface water quality monitoring was conducted at WM1 and WM2 on 15 February 2024. No adverse weather was observed during reporting period. The detailed monitoring schedule is shown in **Appendix D**.

5.2.5.2 The summary of monitoring results is presented in **Table 5-5**. Detailed monitoring results at each monitoring station and graphical presentations of surface water quality (DO, SS and Turbidity) at the monitoring stations are given in **Appendix F** and **Appendix G**.

5.2.5.3 No particular observations are identified near the monitoring stations during the monitoring period.

Table 5-5 Summary of Impact Surface Water Monitoring Results

Monitoring Parameter(s)	Monitoring Station					
	WM1			WM2		
	Monitoring Results	Action Level	Limit Level	Monitoring Results	Action Level	Limit Level
pH	7.5	>7.7	>7.8	7.4	>7.6	>7.7
DO in mg/L	7.6	<7.4	<4	7.5	<5	<4
Turbidity in NTU	8.3	>9.2	>9.5	32.7	>108.3	>108.9
Electrical Conductivity in $\mu\text{S}/\text{cm}$	123	---	---	207	---	---
SS in mg/L	2.0	>9.7	>11.4	12.3	>94.5	>94.7
Alkalinity in mg/L	<1	---	---	60	---	---
COD in mg/L	<5			<5		
BOD ₅ in mg/L	<2			<2		
TOC in mg/L	<1			1		
Ammonia-nitrogen in mg/L	0.02			0.07		
TKN in mg/L	0.2			0.2		
Nitrate in mg/L	0.40			0.27		
Sulphate in mg/L	104			29		
Sulphite in mg/L	<2			<2		
Phosphorus in mg/L	0.02			<0.01		
Chloride in mg/L	5			7		
Sodium in $\mu\text{g}/\text{L}$	4430			7290		
Magnesium in $\mu\text{g}/\text{L}$	590			1450		
Calcium in $\mu\text{g}/\text{L}$	5510			25400		
Potassium in $\mu\text{g}/\text{L}$	1530			3490		
Iron in $\mu\text{g}/\text{L}$	60			1620		
Nickel in $\mu\text{g}/\text{L}$	1.0			1		
Zinc in $\mu\text{g}/\text{L}$	35			10		
Manganese in $\mu\text{g}/\text{L}$	9			822		
Copper in $\mu\text{g}/\text{L}$	2.0			1		
Lead in $\mu\text{g}/\text{L}$	<1			<1		
Cadmium in $\mu\text{g}/\text{L}$	<0.2			<0.2		
Coliform Count in cfu/100mL	Not Detected			3400		
Oil and Grease in mg/L	<5	<5				

5.2.5.4 The Summary of Impact Surface Water Quality Exceedance are shown in **Table 5-6**.

Table 5-6 Summary of Impact Surface Water Quality Exceedance during the Reporting Period

Surface Water Quality Monitoring Station		WM1		WM2	
Level Exceedance		Action Level	Limit Level	Action Level	Limit Level
Parameters					
pH	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0
DO	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0
Turbidity	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0
SS	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0

Remarks: * equal to non-project related

5.2.5.5 No exceedance of Action and Limit Level of surface water quality at designated locations was recorded during the reporting period. The Notification of Environmental Quality Limits Exceedance is presented in **Appendix H**.

5.2.6 Recommended Mitigation Measure

5.2.6.1 The recommended surface water mitigation measures from EIA report are listed as followed:

- Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities.
- The overall slope of the site should be kept to a minimum to reduce the erosive potential of surface water flows.
- 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 silts and sediment traps should be 5 minutes under maximum flow conditions.
- All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads.
- Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts.
- Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.

5.2.7 Implementation of the Temporary Surface Water Drainage System (TSWDS)

5.2.7.1 The site inspection and audits were carried out by ER, IC, ET & Contractor on weekly basis (IEC on monthly basis) to monitor the construction progress, maintenance performance and effectiveness of temporary surface water drainage system in the Project Site to fulfil the FEP Condition 2.13, EP Condition 2.15 and the Section 5.2.1.1 of the EM&A Manual. The joint environmental site inspection records are shown in **Appendix K**.

5.2.7.2 All construction site runoff would be treated by silt removal facilities to fulfil the requirement of WPCO licenses from the project. Construction site runoff from the project after treatment was discharged to Ping Yuen River. The surface water monitoring results at WM2 (after the discharge point of silt removal facilities) can reflect the water quality at Ping Yuen River during the reporting period.

5.2.8 Event and Action Plan

5.2.8.1 Should non-compliance of the criteria occurs, action in accordance with the action plan in **Table 5-7** shall be carried out.

Table 5-7 Event and Action Plan for Water Quality

Event	ET	IEC	Contractor
Action level being exceeded by one sampling day	<ul style="list-style-type: none"> • Repeat in situ measurement to confirm findings • Identify source(s) of impact • Prepare Notification of Exceedance • Inform IEC and Contractor • Check monitoring data, all plant, equipment and Contractor's working methods • Repeat measurement on next day of exceedance 	<ul style="list-style-type: none"> • Verify Notification of Exceedance • Check monitoring data and Contractor's working methods 	<ul style="list-style-type: none"> • Rectify unacceptable practice • Amend working methods if appropriate
Action level being exceeded by two or more consecutive sampling days	<ul style="list-style-type: none"> • Repeat in situ measurement to confirm findings • Identify source(s) of impact • Prepare Notification of Exceedance • Inform IEC and Contractor • Check monitoring data, all plant, equipment and Contractor's working methods • Discuss with Contractor and IEC for remedial measures • Ensure mitigation measures are implemented • Increase the monitoring frequency to daily until no exceedance of Action level • Repeat measurement on next day of exceedance 	<ul style="list-style-type: none"> • Verify Notification of Exceedance • Check monitoring data and Contractor's working method • Discuss with ET and Contractor on possible remedial actions • Review the proposed mitigation measures • Supervise the implementation of mitigation measures 	<ul style="list-style-type: none"> • Submit proposal of additional mitigation measures to IEC of notification • Implement the agreed mitigation measures • Amend proposal if appropriate

Event	ET	IEC	Contractor
Limit Level being exceeded by one sampling day	<ul style="list-style-type: none"> • Repeat in situ measurement to confirm findings • Identify source(s) of impact • Prepare Notification of Exceedance • Inform IEC and Contractor; • Check monitoring data, all plant, equipment and Contractor's working methods • Discuss mitigation measures with IEC and Contractor • Ensure mitigation measure are implemented 	<ul style="list-style-type: none"> • Verify Notification of Exceedance • Check monitoring data submitted By ET and Contractor's working method • Discuss with ET and Contractor on possible remedial actions • Review the proposed mitigation measures • Supervise the implementation of mitigation measures 	<ul style="list-style-type: none"> • Critically review the working method • Rectify unacceptable practice • Take immediate corrective actions to avoid further exceedance • Submit proposal of mitigation measures to IEC • Implement the agreed mitigation measures •
Limit level being exceeded by two or more consecutive sampling days	<ul style="list-style-type: none"> • Repeat in situ measurement to confirm findings • Identify source(s) of impact • Prepare Notification of Exceedance • Inform IEC, contractor and EPD • Check monitoring data, all plant, equipment and Contractor's working methods • Discuss mitigation measures with IEC and Contractor • Ensure mitigation measure are implemented 	<ul style="list-style-type: none"> • Verify Notification of Exceedance • Check monitoring data submitted by ET and Contractor's working method • Discuss with ET and Contractor on possible remedial actions • Review the proposed mitigation measures • Supervise the implementation of mitigation measures 	<ul style="list-style-type: none"> • Critically review the working method • Rectify unacceptable practice • Take immediate corrective actions to avoid further exceedance • Submit proposal of mitigation measures to IEC • Implement the agreed mitigation measures • Resubmit proposals if problem still not under control • Slow down or to stop relevant activity until exceedance is abated

6 Waste Management

- 6.1.1 Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. Non-inert C&D materials were made up of general refuse, steels and paper/cardboard packaging materials. Steel materials generated from the Project were also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are summarised in **Appendix J**.
- 6.1.2 A total of 106,218 tonnes of C&D materials was reused at alternative disposal ground (NENT Landfill) during the reporting period. A total of 1,771.16 tonnes of C&D materials was imported fill during the reporting period. No Yard waste (collected to Y-Park) was generated during the reporting period. A total of 53.76 tonnes of general refuse and A total of 133.17 tonnes of non-recyclable yard waste was generated during the reporting period. The general refuse generated from the Project were disposed of at the NENT Landfill.
- 6.1.3 The recommended waste management mitigation measures from EIA report are listed as followed:
- Implement a trip-ticket system to ensure that the movement of C&D materials are properly documented and verified in accordance with DEVB TC(W) No. 6/2010.
 - Concrete and masonry should be used as general fill and steel reinforcement bars can be used by scrap steel mills.
 - Proper areas should be designated for waste segregation and storage wherever site conditions permit.
 - Maximise the use of reusable steel formwork to reduce the amount of C&D material.
 - Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement.
 - On-site sorting and segregation facility of all type of wastes is considered as one of the best practice in waste management and hence, should be implemented in all projects generating construction waste.
 - The sorted public fill and C&D waste should be properly reused.
 - Excavated slope, stockpiled material and bund walls should be covered by tarpaulin until used in order to prevent wind-blown dust during dry weather, and to reduce muddy runoff during wet weather.

7 Landfill Gas Monitoring

7.1 Monitoring Requirement during Construction

Monitoring for Construction Works

7.1.1 Intrinsically safe portable gas detectors should be used during or when working in any confined spaces, which have the potential for presence of LFG and risk of explosion or asphyxiation. The monitoring equipment should alarm, both audibly and visually, when the concentrations of the following gases were exceeded:

- CH₄: >10% Lower Explosion Limit (LEL);
- CO₂: >0.5%; and
- O₂: <18% by volume.

7.2 Monitoring Locations

7.2.1 During the construction works within the NENT Landfill Extension site with excavation of 1m deep or more, LFG concentrations should be monitored before entry and periodically during the progress of works. If drilling is required, the procedures for safety management and working procedures as stipulated in EPD's Landfill Gas Hazard Assessment – Guidance Note should be strictly adopted.

7.2.2 The monitoring frequency and areas to be monitored should be set down prior to commencement of groundworks by the Safety Officer. All measurements in excavations should be made with the monitoring tube located not more than 10mm from the exposed ground surface. Monitoring of excavations should be undertaken as follows:

7.2.3 For excavation works deeper than 1m, measurements should be made:

- at ground surface prior to excavation;
- immediately before any worker enters the excavation;
- at the beginning of each working day for the entire period the excavation remains open; and
- periodically through the working day whilst workers are in the excavation.

7.2.4 For excavation between 300mm and 1m deep, measurements should be made:

- directly after the excavation has been completed; and
- periodically whilst the excavation remains open.

7.2.5 For excavations less than 300mm deep, monitoring may be omitted, at the discretion of the Safety Officer.

7.2.6 The locations of LFG monitoring locations during reporting period are shown in **Table 7-1**. The Site formation layout plan is shown in **Figure 2** and the Layout of LFG monitoring locations is presented in **Figure 3**.

Table 7-1 Locations of LFG Monitoring during Reporting Period

Monitoring Location	Type of works
Portion A +50 mpD to 70 mpD Platform	Excavation Works

7.3 Monitoring Equipment

7.3.1.1 Gas Detector was used for carrying out LFG monitoring for Construction Works. **Table 7-2** summarises the equipment that were used in the LFG monitoring programme. The calibration certificates are shown in **Appendix E**. The detection limits are provided in **Table 7-3**.

Table 7-2 LFG Monitoring Equipment

Monitoring Parameters	Equipment	Model	Expiry Date
CH ₄ , CO ₂ & O ₂	Gas Analyser	GEM5000 (S/N: G505207)	30 Aug 2024

Table 7-3 Landfill Gas Monitoring Detection Limits

Parameters	Detection Limit
CH ₄	1% LEL
O ₂	0.1%
CO ₂	0.1%

7.4 Event and Action Plan (EAP)

7.4.1 Should non-compliance of the criteria occur, action in accordance with the action plan in **Table 7-4** shall be carried out.

Table 7-4 Event and Action Plan for the Landfill Gas Monitoring during Construction Phase

Parameter	Monitoring Result	Action
Oxygen (O ₂)	Action Level <19% O ₂	Ventilate trench/void to restore O ₂ to >19%
	Limit Level <18% O ₂	Stop works Evacuate personnel/prohibit entry Increase ventilation to restore O ₂ to >19%
Methane (CH ₄)	Action Level >10% LEL *	Prohibit hot works Increase ventilation to restore CH ₄ to <10% LEL
	Limit Level >20% LEL *	Stop works Evacuate personnel/prohibit entry Increase ventilation to restore CH ₄ to <10% LEL
Carbon dioxide (CO ₂)	Action Level** >0.5%** CO ₂	Ventilate to restore CO ₂ to <0.5%
	Limit Level >1.5% CO ₂	Stop works Evacuate personnel / prohibit entry Increase ventilation to restore CO ₂ to <0.5%

* LEL: Lower Explosive Limit - concentrations in air below which there is not enough fuel to continue an explosion.

** This Action Level of CO₂ at 0.5% is set for reference only, assuming no CO₂ emission from a particular location.

Depending on the baseline CO₂ levels, the Action Level at a particular location will be changed.

7.5 Monitoring Results

7.5.1 The LFG monitoring was carried out two rounds (at the beginning of works in the morning and after lunch) at the working days. The monitoring period of each round of LFG monitoring is around 5 minutes.

7.5.2 The LFG monitoring was conducted at Portion A +50 mpD to 70 mpD Platform during the reporting period (Conducted on working days). The LFG monitoring results are summarized in **Table 7-5**.

Table 7-5 Summary of LFG Monitoring Results

LFG Monitoring Station	Monitoring Date	Monitoring Parameter(s)			
		CH ₄ in %	LEL in %/v	CO ₂ in %	O ₂ in %
		Average Monitoring Results			
Portion A +50 mpD to 70 mpD Platform	1 Feb 2024	0	0	0	20.2
	2 Feb 2024	0	0	0	20.1
	3 Feb 2024	0	0	0	20.1
	5 Feb 2024	0	0	0	20.2
	6 Feb 2024	0	0	0	20.1
	7 Feb 2024	0	0	0	20.2
	8 Feb 2024	0	0	0	20.0
	15 Feb 2024	0	0	0	20.1
	16 Feb 2024	0	0	0	20.2
	17 Feb 2024	0	0	0	20.2
	19 Feb 2024	0	0	0	20.2
	20 Feb 2024	0	0	0	20.1
	21 Feb 2024	0	0	0	20.2
	22 Feb 2024	0	0	0	20.2
	23 Feb 2024	0	0	0	20.2
	24 Feb 2024	0	0	0	20.2
	26 Feb 2024	0	0	0	20.2
	27 Feb 2024	0	0	0	20.2
	28 Feb 2024	0	0	0	20.1
29 Feb 2024	0	0	0	20.1	
Action Level		>10% LEL	---	>0.5%** CO ₂	<19%
Limit Level		>20% LEL	---	>1.5% CO ₂	<18%

* LEL: Lower Explosive Limit - concentrations in air below which there is not enough fuel to continue an explosion.

** This Limit Level of CO₂ at 0.5% is set for reference only, assuming no CO₂ emission from a particular location.

7.5.3 The Summary of Landfill Gas Exceedance are shown in **Table 7-6**.

Table 7-6 Summary of Landfill Gas Exceedance during the Reporting Period

Landfill Gas Monitoring Station		Portion A +50 mpD to 70 mpD Platform	
Level Exceedance		Action Level	Limit Level
Parameters			
CH ₄	Exceedance Date	-	-
	Exceedance Count	0	0
CO ₂	Exceedance Date	-	-
	Exceedance Count	0	0
O ₂	Exceedance Date	-	-
	Exceedance Count	0	0

Remarks: * equal to non-project related

7.5.4 No exceedance of Action and Limit Levels of LFG was recorded during the reporting period. Therefore, there was no record of Notification of Environmental Quality Limits Exceedance in the **Appendix H**.

7.5.5 No effect that arose from the other special phenomena and work progress of the concerned site was noted during the current monitoring month.

7.6 Recommended Mitigation Measures

7.6.1 The recommended landfill gas mitigation measures from EIA report are listed as followed:

- Special LFG precautions should be taken due to close proximity of NENT landfill extension site to existing landfill to avoid potential hazards of LFG exposure (ignition, explosion, asphyxiation, toxicity).
- Prominent safety warning signs should be erected on-site to alert all personnel and visitors of LFG hazards during excavation works.
- No smoking or burning should be permitted on-site.
- Prominent 'No smoking' and 'No Naked Flames' signs should be erected on-site.
- No worker should be allowed to work alone at any time in excavated trenches or confined areas on-site.
- Adequate fire fighting equipment should be provided on-site.
- Construction equipment should be equipped with vertical exhaust at least 0.6m above ground installed with spark arrestors.
- Electrical motors and extension cords should be explosion-proof and intrinsically safe for use on-site.
- 'Permit to Work' system should be implemented.
- Welding, flame-cutting or other hot works should be conducted only under 'Permit to Work' system following clear safety requirements, gas monitoring procedures and presence of qualified persons to supervise the works.

8 Landscape and Visual

8.1 Monitoring Requirement

- 8.1.1 In order to monitor the landscape and visual impact after providing mitigation measures effectively, all the specified and affected LCAs, LRs and VSRs should be monitored. Implementation of the mitigation measures during construction phase of the Project has been monitored through the regular site inspection/audit.
- 8.1.2 All relevant environmental mitigation measures listed in the approved EIA Report and the EM&A Manual and their implementation status are summarised in **Appendix L**.

8.2 Result and Observation

- 8.2.1 Measures to mitigate the landscape and visual impacts during the construction phase has been checked to ensure compliance with the intended aims of the measures within the reporting period. The progress of the engineering works are regularly reviewed on site to identify the earliest practical opportunities for the landscape works to be undertaken.
- 8.2.2 In order to monitor the landscape and visual impact after providing mitigation measures effectively, all the specified and affected LCAs, LRs and VSRs should be monitored. Implementation of the mitigation measures during construction phase of the Project has been monitored through the regular site inspection/audit.

9 Cultural Heritage

- 9.1.1 The Mitigation measures for preservation of the cultural landscape feature located within the project area was conducted before commencement of construction of the project based on the requirement of Survey Report and Mapping Records for Boulder Paths BP1 & 2 & Conditions of G2, G4, G5 G6, G7, G8, G14, G15, G25, G26 and G27 within NENTX.
- 9.1.2 The survey and mapping works carried out on 23 August 2022 and the verification works carried out on 23 August 2022 confirmed that both 2 boulder paths BP1 and BP2 are fall outside the site boundary and the Project area.
- 9.1.3 All the affected graves within the waste boundary have been removed in accordance with section 119(1) of the Public Health and Municipal Services Ordinance (Cap 132). Removal of the graves as shown on Figure 2 attached to the FEP was proven by the visit of graves on 8 July 2022. All the graves as shown on Figure 2 attached to the FEP were abandoned and removed and no mitigation or preservation measures is necessary.
- 9.1.4 The Survey Report and Mapping Records for Boulder Paths BP1 & 2 was certified by ET on 10 Oct 2022, was verified by IEC and submitted to EPD on 12 Oct 2022. The Conditions of G2, G4, G5 G6, G7, G8, G14, G15, G25, G26 and G27 within NENTX was certified by ET, was verified by IEC and submitted to EPD on 15 Oct 2022. No later than four weeks before commencement of construction of the project in accordance with Condition 2.4 of the FEP-01/292/2007.
- 9.1.5 Implementation of the mitigation measures such as permanent fencing to protect the boulder path and setting up warning notices during construction phase of the Project has been monitored through the regular site inspection/audit. The permanent fencing locations are shown in **Appendix M**. In case of any presence of undiscovered grave during construction phase, AMO will be informed as soon as possible.

10 Ecological Monitoring

- 10.1.1 The post-transplantation monitoring had been completed in October 2023. No further post-transplantation monitoring will be conducted in accordance with the requirement of the approved Transplantation Proposal for Plant Species of Conservation Importance (Rev.1).
- 10.1.2 The post-translocation monitoring had been completed in July 2023. No further post-translocation monitoring will be conducted in accordance with the requirements of the Revised Translocation Proposal for the Endemic Freshwater Crab *Somanniathelphusa zanklon*.
- 10.1.3 The details of requirements, monitoring results and site inspection with photos for the post-translocation monitoring and post-transplantation monitoring would be reported separately.
- 10.1.4 The milestone of the ecological monitoring is presented in **Table 10-1**. The softcopies of the submissions are provided in <https://www.nentx-ema.com/ep-submissions/>.

Table 10-1 Milestone of the Ecological Monitoring

Type of Monitoring	Monitoring Event No.	Monitoring Date
Post-transplantation Monitoring	1 st	24 Nov 2022
	2 nd	9 Dec 2022
	3 rd	21 Dec 2022
	4 th	13 Jan 2023
	5 th	26 Jan 2023
	6 th	8 Feb 2023
	7 th	24 Feb 2023
	8 th	20 Mar 2023
	9 th	21 Apr 2023
	10 th	12 May 2023
	11 th	16 Jun 2023
	12 th	18 Jul 2023
	13 th	11 Aug 2023
	14 th	15 Sep 2023
	15 th	13 Oct 2023
Post-translocation Monitoring	1 st (Aug 2022)	29 Aug 2022
	2 nd (Sep 2022)	28 Sep 2022
	3 rd (Oct 2022)	28 Oct 2022
	4 th (Nov 2022)	22 Nov 2022
	5 th (Dec 2022)	29 Dec 2022
	6 th (Jan 2023)	30 Jan 2023
	7 th (Feb 2023)	24 Feb 2023
	8 th (Mar 2023)	20 Mar 2023
	9 th (Apr 2023)	19 Apr 2023
	10 th (May 2023)	17 May 2023
	11 th (Jun 2023)	7 Jun 2023
	12 th (Jul 2023)	12 Jul 2023

11 Site Inspection and Audit

11.1.1 Site Inspection and 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.

11.1.2 Weekly ET environmental site inspections were conducted in the reporting period on 05, 15, 19 & 26 February 2024. A joint environmental site inspection was carried out by the representatives of the ER, the Contractor, IEC and the ET on 19 February 2024. The joint environmental site inspection records are shown in **Appendix K**. There was no noncompliance recorded during the site inspections.

11.1.3 Major findings and recommendations are summarized as follows:

05 February 2024

Observation(s):

- The exposed slope area at Portion B2 without covered by impervious sheet was observed. The contractor was advised to cover the exposed slope area by impervious sheet for short-term slope protection, and shotcrete for long-term slope protection.
- The accumulation of C&D materials at Portion D was observed. The contractor was reminded to provide enough waste skip for waste storage to avoid waste accumulation.
- The chemical containers at Portion D shall be stored and placed in the drip tray. The contractor was recommended to provide sufficient chemical drip tray for chemical storage to prevent chemical spillage.

Reminder(s):

- The Contractor was reminded that general waste shall be collected into the enclosed rubbish bins.

15 February 2024

Observation(s):

- The main haul road is dry and fugitive dust was observed at Portion E4 and SBA. The contractor was reminded to increase the frequency of watering to ensure that the surface of access road is wetted and to prevent dust dispersion.

Reminder(s):

- The Contractor was reminded that the stockpiling of dusty material shall be covered by impervious sheet.

19 February 2024

Observation(s):

- The chemical containers without stored and placed on the drip tray at portion D and E3-1 was observed. The contractor was advised to provide enough drip tray at portion D and E3-1 for chemical storage to prevent chemical spillage.

26 February 2024

Observation(s):

- Unpaved main haul road was dusty and fugitive dust was observed at Portion SBA and Portion E4. The contractor was advised to increase the frequency of watering to ensure that the unpaved haul road surface is wetted and prevent dust dispersion.
- The accumulation of deposited silt and grit was observed at Portion A. The contractor was recommended to clean up and remove the deposited silt and grit regularly to prevent silt accumulation.
- Oil stain was found in the work area at Portion D and Portion A. The contractor was reminded to clean up the oil stain immediately and dispose of it as chemical waste. Also, the impervious sheet should be provided during using and placing chemicals.
- The accumulation of general waste and C&D waste was observed at Portion A. The contractor was recommended to provide sufficient enclosed bins for general waste disposal and waste skip for C&D waste disposal to separate and dispose the general and construction wastes.
- The chemical containers at Portion A shall be stored and placed properly. The contractor was advised to provide drip tray for chemical storage to prevent chemical spillage and land contamination.

11.1.4 No site inspection was conducted by Environmental Protection Department-Regional Office (North) (EPD-RNG) during reporting period.

12 Environmental Non-Conformance

12.1 Summary of Monitoring Exceedance

Air Quality, Noise, Surface Water Quality Monitoring & Landfill Gas Monitoring

12.1.1 No exceedance of the Action and Limit Levels were recorded at designated monitoring stations during the reporting period. The Notification of Environmental Quality Limits Exceedance is presented in **Appendix H**.

12.1.2 The Summary of Impact 1-hr & 24-hr TSP Exceedance are shown in **Table 12-1**.

Table 12-1 Summary of Impact 1-hr & 24-hr TSP Exceedance during the Reporting Period

Dust Monitoring Station		AM1		AM2		AM3	
Parameters	Level Exceedance	Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level
	1-hr TSP	Exceedance Date	-	-	-	-	-
Exceedance Count		0	0	0	0	0	0
24-hr TSP	Exceedance Date	-	-	-	-	-	-
	Exceedance Count	0	0	0	0	0	0

Remarks: * equal to non-project related

12.1.3 The Summary of Impact Noise Exceedance are shown in **Table 12-2**.

Table 12-2 Summary of Impact Noise Exceedance during the Reporting Period

Noise Monitoring Station		NM1(a)		NM2(a)	
Parameters	Level Exceedance	Action Level	Limit Level	Action Level	Limit Level
	LA _{eq} (30mins)	Exceedance Date	-	-	-
Exceedance Count		0	0	0	0

Remarks: * equal to non-project related

12.1.4 The Summary of Impact Surface Water Quality Exceedance are shown in **Table 12-3**.

Table 12-3 Summary of Impact Surface Water Quality Exceedance during the Reporting Period

Surface Water Quality Monitoring Station		WM1		WM2	
Level Exceedance		Action Level	Limit Level	Action Level	Limit Level
Parameters					
pH	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0
DO	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0
Turbidity	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0
SS	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0

Remarks: * equal to non-project related

12.1.5 The Summary of Landfill Gas Exceedance are shown in **Table 12-4**.

Table 12-4 Summary of Landfill Gas Exceedance during the reporting period

Landfill Gas Monitoring Station		Portion A +50 mpD to 70 mpD Platform	
Level Exceedance		Action Level	Limit Level
Parameters			
CH ₄	Exceedance Date	-	-
	Exceedance Count	0	0
CO ₂	Exceedance Date	-	-
	Exceedance Count	0	0
O ₂	Exceedance Date	-	-
	Exceedance Count	0	0

Remarks: * equal to non-project related

12.2 Summary of Environmental Non-Compliance

12.2.1 No non-compliance event was recorded during the reporting period.

12.3 Summary of Environmental Complaint

12.3.1 No complaint was recorded during the reporting period. The cumulative statistics on environmental complaints are presented in **Table 12-5**.

Table 12-5 Cumulative Statistics on Environmental Complaints

Reporting Period		Environmental Aspects				
		Air Quality	Noise	Water Quality	Waste	Ecology
Feb 2024	Complaint Date	-	-	-	-	-
	No. of Complaint	0	0	0	0	0
Reporting Period Total		0	0	0	0	0
Accumulate of project		1*	0	5(1*)	0	0

Remarks: * equal to non-project related after the investigation.

12.3.2 Cumulative complaint / enquiry log, Summaries of complaints and enquiries are presented in **Appendix N**.

12.4 Summary of Environmental Summons and Successful Prosecution

12.4.1 No summons and successful prosecution were received during the reporting period.

13 Implementation Status on Environmental Mitigation Measures

13.1 General

13.1.1 The Contractor has generally implemented part of environmental mitigation measures and requirements as stated in the EIA Report, the EP and EM&A Manual and the contract documents. The implementation status during the reporting period is summarized in **Appendix L**.

14 Future Key Issues

14.1 Key Issues for the Coming Month

14.1.1 Works to be undertaken for the coming monitoring periods are summarized below. Detailed construction activities and locations are summarized in **Appendix A**.

-
- Material loading and unloading, site traffic at Portion A, SBA to alternative disposal ground

 - Construction of site buildings at Portion D

 - Site clearance at Portion A, B2/E1, E3-1 & E4

 - Installation of permanent fencing at Portion A, B1 & E4

 - Site formation at Portion A & E3-1

 - Tree felling at Portion B2/E1, E3-1 & E4

 - Shotcreting (Permanent and Temporary)

 - Soil Nail Installation at Portion A, B2/E1 & E4

14.1.2 Potential environmental impacts arising from the above construction activities are mainly associated with air quality, construction noise, water quality, waste management, landfill gas monitoring, landscape and visual, cultural heritage and ecology.

14.2 Monitoring Schedule for the Next Month

14.2.1 The tentative schedule of environmental monitoring for the next reporting period is presented in **Appendix D**.

14.3 Construction Programme for the Next Month

14.3.1 The most updated construction programme for the Project is presented in **Appendix A**.

15 Conclusion

- 15.1.1 1-hr & 24-hr TSP impact monitoring was carried out in the reporting month. No Action / Limit Level exceedance for 1-hr & 24-hr TSP impact monitoring was recorded during the period.
- 15.1.2 Construction noise monitoring was carried out in the reporting month. No Action / Limit Level exceedance at NM1a & NM2a was recorded during the period.
- 15.1.3 Site clearance of future landfilling area is in progress. The installation of groundwater monitoring boreholes will be installed after the site formation work of the landfilling area. The target commencement period of groundwater monitoring will be in 2026. No groundwater monitoring is required before the completion of site formation work of the landfilling area.
- 15.1.4 Surface Water Quality Monitoring was carried out in the reporting month. No Action / Limit Level exceedance of surface water quality was recorded during the reporting period.
- 15.1.5 Landfill Gas Monitoring was carried out in the reporting month. No exceedance of Action / Limit Levels of LFG was recorded during the reporting period.
- 15.1.6 In terms of cultural heritage, implementation of the mitigation measures such as permanent fencing to protect the boulder path and setting up warning notices during construction phase of the Project has been monitored through the regular site inspection/audit in the reporting period. All the mitigation measures are in order.
- 15.1.7 Four environmental site inspections were carried out in the reporting month. Recommendations on mitigation measures for Permit/ Licenses were given to the Contractor for remediating the deficiencies identified during the site inspections.
- 15.1.8 No complaint was recorded during the reporting period.
- 15.1.9 No non-compliance event was recorded during the reporting period.
- 15.1.10 No notification of summons and prosecution was received during the reporting period.
- 15.1.11 The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Figure 1 Location of the Project Site

Figure 2 Impact Air Quality, Noise & Surface Water Quality Monitoring Locations

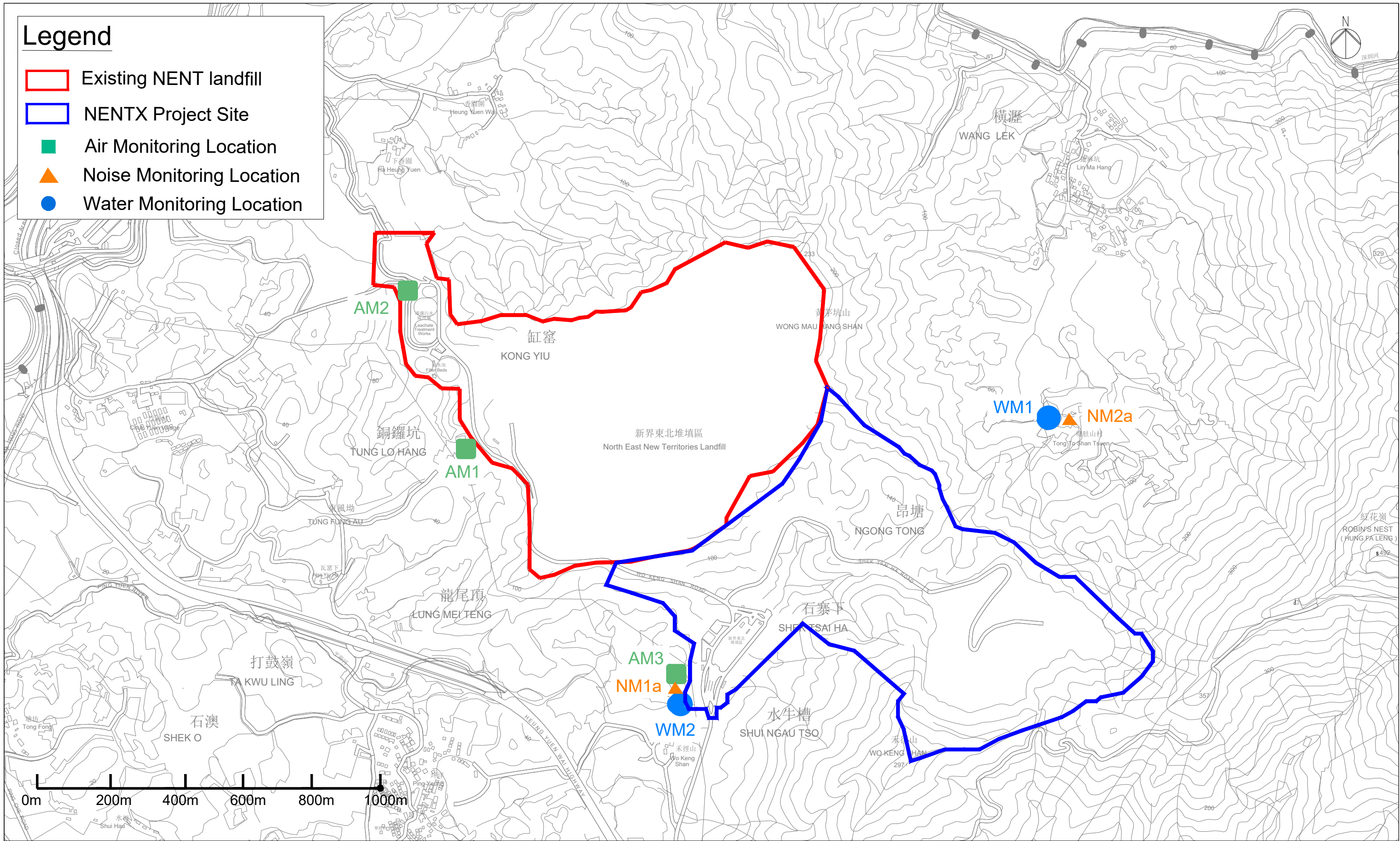


Figure 3 Landfill Gas Monitoring Locations

Gas Monitoring Point ●

Monitoring Frequency: 2 times per day

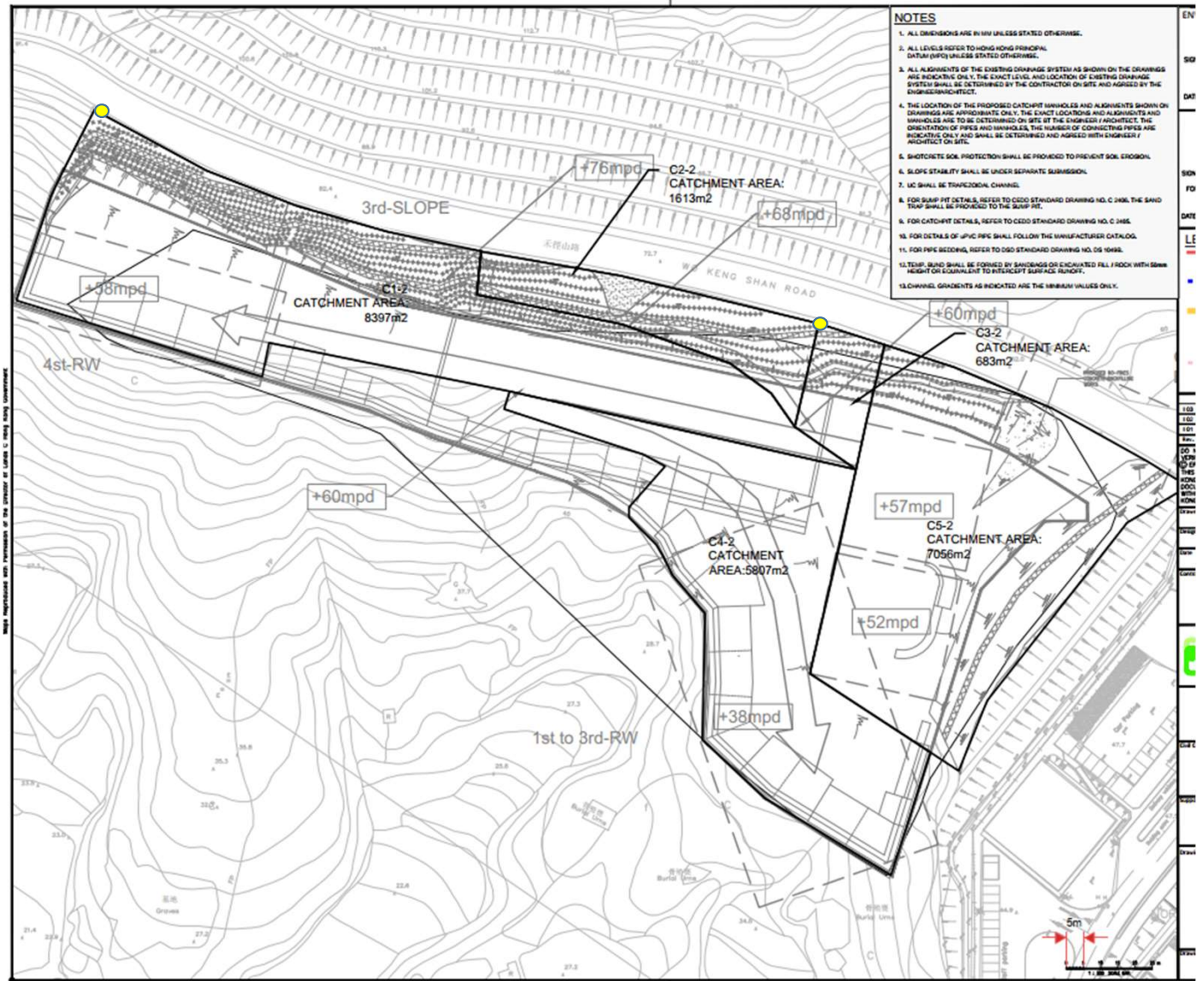
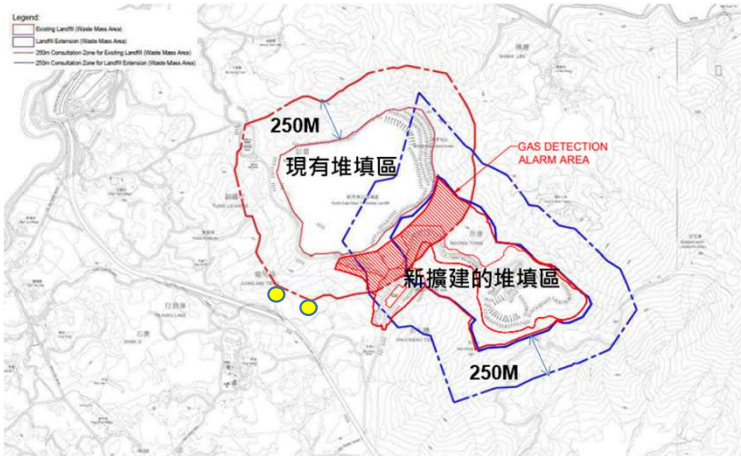


Figure 3 Landfill Gas Monitoring Locations

Appendix A Construction Programme & Construction Activities

Activity ID	Activity Name	At Completion Duration	Actual Start	Actual Finish	Early Start	Early Finish	Late Start	Late Finish	Predecessors	Successors	Total Float	2022				2023				2024				2025				2026				
												Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	
NENTX_Updated Baseline Programme (Rev.4)																																
DESIGN DEVELOPMENT																																
Portion A - Site Formation																																
Portion A & D Architectural Design																																
Portion A - Leachate Treatment Works & LFG Treatment Plant																																
Portion A - Process Building																																
Portion D Site Formation																																
Portion A and D Preliminary Utilities Arrangement																																
Site services detailed design for Portion A and D																																
Permanent Drainage - Portion A, C & D																																
Sewerage Management Plan - Portion A, C & D																																
Pavement Road and Traffic Design for Portion A & D																																
Accommodation Buildings (Portion D)																																
Existing Structures (Portion C)																																
Landfill Area																																
FS Submission and FSD Consent																																
Preliminary FS Submission																																
Process Building and Fire Services Building Detailed Design FS Submission																																
TECHNICAL SUBMISSION																																
Project Control Plan and Report																																
PROCUREMENT / FABRICATION / DELIVERY																																
General Material																																
LIFT																																
LTW - GFS and GRP Tanks																																
LTW - Lamella Settlers																																
LTW - Sludge Thickening																																
LTW - Ammonia Stripper																																
Process Building(Electrical equipments)																																
LFG Plant																																
EPD REQUIREMENT - GI WORKS																																
PORTION D																																
PORTION A																																
PORTION E3-1																																
PORTION E4																																
PORTION E3-1-A																																
PORTION E1																																
ENVIRONMENTAL MONITORING																																
CONSTRUCTION - INITIAL WORKS PHASE 1																																
PORTION A																																
SITEWIDE Underground UTILITIES (Portion A to Portion D)																																
Waste Reception Area (PORTION C) Construct by Others																																
PORTION D																																
PORTION D - Underground Drainage / UG Utilities and Pipe Laying Works																																
PORTION D - EVA Road Road Pavement Works																																
Landfill Area (Portion E3-1, E4, E1, B1-1 & B2)																																
Landscape Works (Landfill)																																
FS INSPECTION																																
Portion A - Readiness for FS Inspection (Process Building)																																
Portion D : Readiness for FS inspection																																
2nd Inspection																																
FS Inspection Certificate																																
STATUTORY SUBMISSION																																
Obtain Licences & Permits for Construction																																
Obtain Licences & Permits for Operation																																



- ▬ Remaining Level of Effort
- ▬ Remaining Work
- ▬ Critical Remaining Work
- ◆ Milestone
- ▬ Summary

NORTH EAST NEW TERRITORIES (NENTX) LANDFILL EXTENSION
UPDATED BASELINE PROGRAMME (Rev.4)
Executive Summary
INITIAL WORKS (PHASE 1)



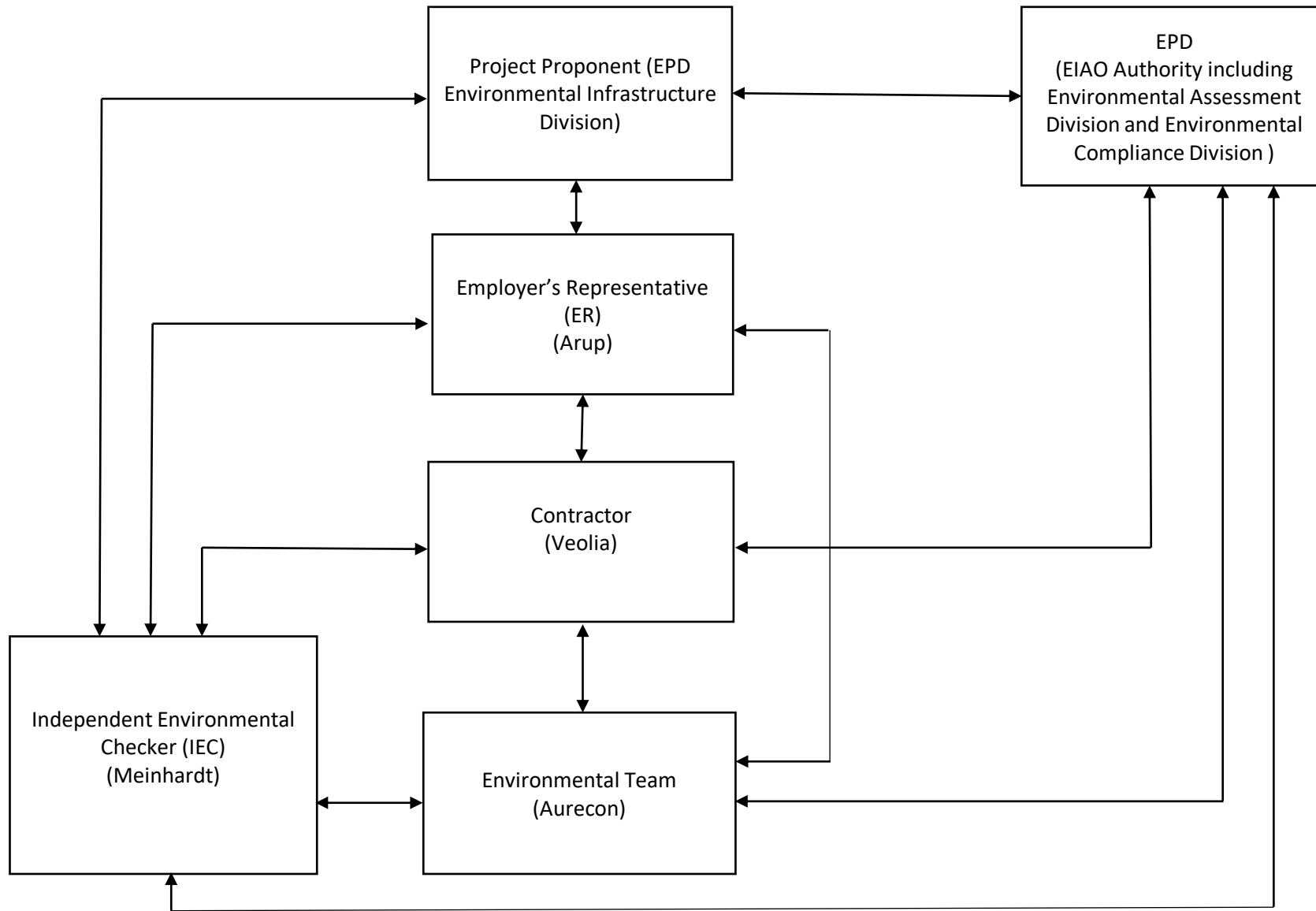
Date	Revision	Ch...	Appr...
22-Jun-22	GENERAL REVISION		
31-Mar-23	GENERAL REVISION		

Construction Activities	Where	Who	What - ENV Impacts	Mitigation Measures
Material loading and unloading, site traffic	Portion A, SBA to Alternative Disposal Ground	PYE	Dust, bringing mud to the common haul road	Speed limit, covering of materials and water spraying, lorry washing at the exit of the site
Construction of Site buildings	Portion D	PYE	Washout flowing to site water discharge point, dust emissions	Avoid the spillage of concrete, lorry washing at designated area, operation and maintenance of water treatment facility at discharge point
Site clearance	Portion A, Portion E3-1, Portion E4, Portion E1/B2	PYE	Wash out going to surface water channel and site water discharge point, generation of yard waste	Cover exposed slope by tarpaulin, diversion of surface water, operation and maintenance of water treatment facility at discharge point, implementation of trip ticket system
Installation of permanent fencing	Portion A, Portion B1, Portion E4	PYE	Dust	Covering of cement storage area, enclosure of mixing area
Site formation	Portion A, Portion E3-1	PYE	Generation of C&D waste	Implementation of trip ticket system, waste recycling, internal waste transfer
Tree Felling	Portion E3-1, E4, E1/B2	PYE	Generation of yard waste	Implementation of trip ticket system, waste recycling, internal waste transfer
Shotcreting (permanent and temporary)	Whole site	PYE	Dust	Covering of cement storage area, enclosure of mixing area
Soil Nail Installation	Portion A, E1/B2, E4	PYE	Dust	Covering of cement storage area, enclosure of mixing area, watering during works, install dust screen at work area

Remark:

PYE is the Sub-contractor for this project

Appendix B Project Organization Chart & Management Structure



Notes:

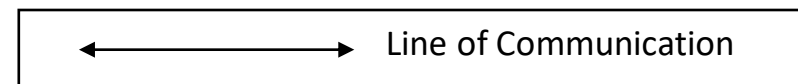
EPD - Environmental Protection Department

Arup – Ove Arup & Partners Limited

Veolia - Veolia Environmental Services Hong Kong Limited

Meinhardt - Meinhardt Infrastructure And Environment Limited

Aurecon - Aurecon Hong Kong Limited



Appendix C Detail Status of FEP & EP Submission

Detail Status of Submissions required under the FEP & EP

FEP Condition	EP Condition	Submission / Measures	Status
2.1	2.3	Management Organization of Main Construction Companies	Submission Date (12 Oct 2022)
2.2	2.4	Setting up of Community Liaison Group (CLG)	Submission Date (12 Oct 2022) 1 st CLG meeting (12 Jan 2023)
2.3	2.5	Submission of EM&A Manual	Submission Date (12 Oct 2022)
2.4	2.6	Submission of Preservation of Cultural Landscape Features	Survey and Preservation of Grave Records: Submission Date (15 Oct 2022) Survey and Preservation of Boulder Paths: Submission Date (12 Oct 2022)
2.5	2.7	Submission of Vegetation Survey (Transplantation Proposal)	Submission Date (2 September 2022)
2.6	2.8	Submission of translocation proposal	Submission Date (8 July 2022)
2.7	2.9	Submission of Transplantation Report and Post-Transplantation Monitoring	Submission Date (19 Jan 2023) 1 st monitoring (24 Nov 2022) 2 nd monitoring (9 Dec 2022) 3 rd monitoring (21 Dec 2022) 4 th monitoring (13 Jan 2023) 5 th monitoring (26 Jan 2023) 6 th monitoring (8 Feb 2023) 7 th monitoring (24 Feb 2023) 8 th monitoring (20 Mar 2023) 9 th monitoring (21 Apr 2023) 10 th monitoring (12 May 2023) 11 th monitoring (16 Jun 2023) 12 th monitoring (18 Jul 2023) 13 th monitoring (11 Aug 2023) 14 th monitoring (15 Sep 2023) 15 th monitoring (13 Oct 2023)

FEP Condition	EP Condition	Submission / Measures	Status
2.8	2.10	Submission of Translocation Report and Post-Translocation Monitoring	<p>Translocation was carried out in July 2022</p> <p>Submission Date (27 December 2022)</p> <p>1st monitoring (29 Aug 2022)</p> <p>2nd monitoring (28 Sep 2022)</p> <p>3rd monitoring (28 Oct 2022)</p> <p>4th monitoring (22 Nov 2022)</p> <p>5th monitoring (29 Dec 2022)</p> <p>6th monitoring (30 Jan 2023)</p> <p>7th monitoring (24 Feb 2023)</p> <p>8th monitoring (20 Mar 2023)</p> <p>9th monitoring (19 Apr 2023)</p> <p>10th monitoring (17 May 2023)</p> <p>11th monitoring (7 Jun 2023)</p> <p>12th monitoring (12 Jul 2023)</p>
2.9	2.11	Submission of Detailed Landfill Gas Hazard Assessment Report	Submission Date (6 Oct 2022)
2.10	2.12	Submission of Waste Management Plan	Submission Date (30 December 2022)
3.2	3.2	Submission of Baseline Monitoring Report	Submission Date (30 Nov 2022)
3.3	3.3	Submission of Monthly EM&A Report	<p>1st report (Dec 2022)</p> <p>2nd report (Jan 2023)</p> <p>3rd report (Feb 2023)</p> <p>4th report (Mar 2023)</p> <p>5th report (Apr 2023)</p> <p>6th report (May 2023)</p> <p>7th report (Jun 2023)</p> <p>8th report (Jul 2023)</p> <p>9th report (Aug 2023)</p> <p>10th report (Sep 2023)</p> <p>11th report (Oct 2023)</p> <p>12th report (Nov 2023)</p> <p>13th report (Dec 2023)</p> <p>14th report (Jan 2024)</p> <p>15th report (Feb 2024)</p>

Appendix D Monitoring Schedule for Reporting Month & Next Month

Impact Monitoring Schedule for NENT Landfill Extension (February 2024) (version 2.0)

2-2024						
Sun	Mon	Tue	Wed	Thur	Fri	Sat
	29 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	30	31	1	2	3 Air quality monitoring at AM1, AM2 and AM3
4	5	6	7	8	9 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	10
11	12	13	14	15 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a Surface water quality monitoring at WM1 and WM2	16	17
18	19	20	21 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	22	23	24
25	26	27 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	28	1	2	3

Remark:

1. The schedule is tentative only and would be subject to changes due to unforeseen circumstances.
2. Air quality monitoring includes 1-hour TSP and 24-hour TSP monitoring at AM1, AM2 and AM3 (Ref.: Table 3.1 of the approved EM&A Manual).
3. Noise monitoring includes 30-minute construction noise monitoring at NM1a and NM2a (Ref.: Table 4.1 of the approved EM&A Manual).
4. Surface water quality monitoring includes in-situ measurement and water sampling for laboratory analysis at WM1 and WM2 (Ref.: Table 5.5 and Section 5.5.6 of the approved EM&A Manual).
5. Please arrange a Veolia staff to accompany our staff(s) to each locations for every monitoring.

Impact Monitoring Schedule for NENT Landfill Extension (March 2024) (version 2.0)

3-2024						
Sun	Mon	Tue	Wed	Thur	Fri	Sat
		Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a			1	2
3	4 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	5	6	7	8 Air quality monitoring at AM1, AM2 and AM3 Surface water quality monitoring at WM1 and WM2	9
10	11	12 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	13	14	15	16
17	18 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	19	20	21	22 Air quality monitoring at AM1, AM2 and AM3	23
24	25	26	27	28 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	29	30
31	1	2	3 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	4	5	6

Remark:

1. The schedule is tentative only and would be subject to changes due to unforeseen circumstances.
2. Air quality monitoring includes 1-hour TSP and 24-hour TSP monitoring at AM1, AM2 and AM3 (Ref.: Table 3.1 of the approved EM&A Manual).
3. Noise monitoring includes 30-minute construction noise monitoring at NM1a and NM2a (Ref.: Table 4.1 of the approved EM&A Manual).
4. Surface water quality monitoring includes in-situ measurement and water sampling for laboratory analysis at WM1 and WM2 (Ref.: Table 5.5 and Section 5.5.6 of the approved EM&A Manual).
5. Please arrange a Veolia staff to accompany our staff(s) to each locations for every monitoring.

Appendix E Calibration Certificates

Air Quality

Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

Information of Calibrated Equipment

Verification Test Date:	<u>28-Nov-23</u>	to	<u>30-Nov-23</u>	Next Verification Test Date:	<u>27-Nov-24</u>
Unit-under-Test- Model No.:	<u>Sibata LD-5R</u>				
Unit-under-Test Serial No.:	<u>0Z4545</u>				
Our Report Reference No.:	<u>RPT-23-HVS-0023</u>				
Calibration Location:	<u>AM2, location near the Leachate Treatment Works within the NENTX Landfill</u>				

Standard Equipment Information

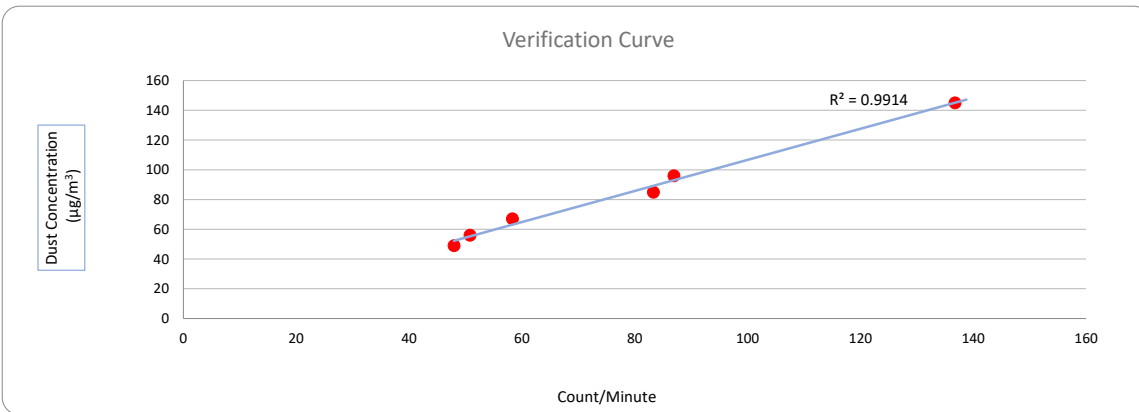
Verification Equipment Type:	<u>Tisch TSP HVS</u>	<u>Tisch HVS Calibrator</u>
Standard Equipment Model No.:	<u>TE-5170X</u>	<u>TE-5028A</u>
Equipment serial no.:	<u>1106</u>	<u>3702</u>
Last Calibration Date:	<u>04-Nov-23</u>	<u>31-Mar-23</u>
Next Calibration Date:	<u>04-Jan-24</u>	<u>30-Mar-24</u>


Equipment Verification Result

Verification Test No.	Date	Duration			Results from Calibrated Equipment		Results from Standard Equipment
		Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration ($\mu\text{g}/\text{m}^3$) y-axis
1	28/11/2023	8789.68	8792.68	180.00	15648	87	96
2	28/11/2023	8792.68	8795.68	180.00	14993	83	85
3	28/11/2023	8795.68	8798.68	180.00	8635	48	49
4	30/11/2023	8798.68	8801.68	180.00	10501	58	67
5	30/11/2023	8801.68	8804.68	180.00	24622	137	145
6	30/11/2023	8804.68	8807.68	180.00	9145	51	56


Linear Regression of y on x

Slope, K factor:	<u>1.0451</u>	Intercept:	<u>2.1545</u>	*Correlation Coefficient, R:	<u>0.9957</u>
Verification Test Result:	<u>Strong Correlation. Results were accepted.</u>			* If the Correlation Coefficient, R is <0.5. Checking and Re-verification are required.	



Operated By: Andy Li 
Project Technician, Environmental

Date: 02-12-2023

Checked By: Tandy Tse 
Senior Consultant, Environmental

Date: 02-12-2023

Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

Information of Calibrated Equipment

Verification Test Date:	28-Nov-23	to	30-Nov-23	Next Verification Test Date:	27-Nov-24
Unit-under-Test- Model No.:	Sibata LD-5R				
Unit-under-Test Serial No.:	882106				
Our Report Reference No.:	RPT-23-HVS-0021				
Calibration Location:	AM2, location near the Leachate Treatment Works within the NENTX Landfill				

Standard Equipment Information

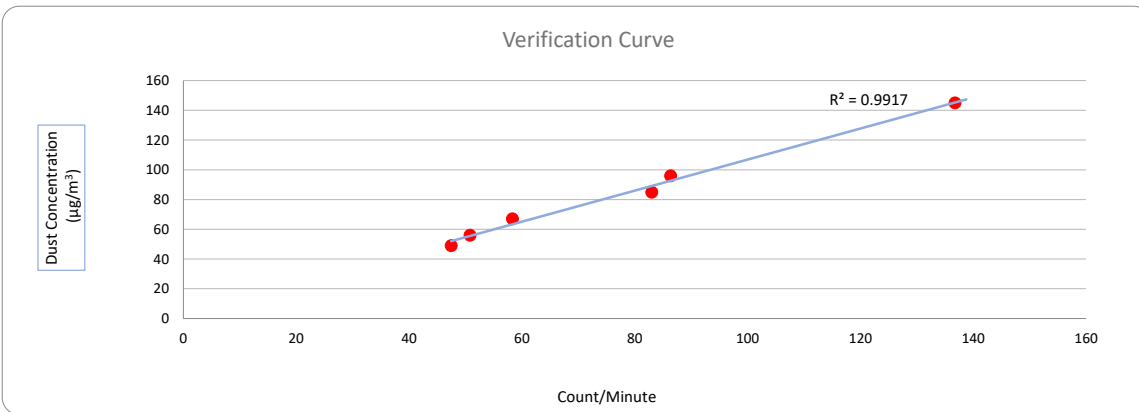
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5028A
Equipment serial no.:	1106	3702
Last Calibration Date:	04-Nov-23	31-Mar-23
Next Calibration Date:	04-Jan-24	30-Mar-24

Equipment Verification Result

Verification Test No.	Date	Duration			Results from Calibrated Equipment		Results from Standard Equipment
		Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration ($\mu\text{g}/\text{m}^3$) y-axis
1	28/11/2023	8789.68	8792.68	180.00	15546	86	96
2	28/11/2023	8792.68	8795.68	180.00	14944	83	85
3	28/11/2023	8795.68	8798.68	180.00	8543	47	49
4	30/11/2023	8798.68	8801.68	180.00	10499	58	67
5	30/11/2023	8801.68	8804.68	180.00	24622	137	145
6	30/11/2023	8804.68	8807.68	180.00	9145	51	56

Linear Regression of y on x

Slope, K factor:	<u>1.0437</u>	Intercept:	<u>2.4993</u>	*Correlation Coefficient, R:	<u>0.9958</u>
Verification Test Result:	<u>Strong Correlation. Results were accepted.</u>			* If the Correlation Coefficient, R is <0.5. Checking and Re-verification are required.	



Operated By: Andy Li
Project Technician, Environmental

Date: 02-12-2023

Checked By: Tandy Tse
Senior Consultant, Environmental

Date: 02-12-2023

Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

Information of Calibrated Equipment

Verification Test Date:	28-Nov-23	to	30-Nov-23	Next Verification Test Date:	27-Nov-24
Unit-under-Test- Model No.:	Sibata LD-5R				
Unit-under-Test Serial No.:	942532				
Our Report Reference No.:	RPT-23-HVS-0022				
Calibration Location:	AM2, location near the Leachate Treatment Works within the NENTX Landfill				

Standard Equipment Information

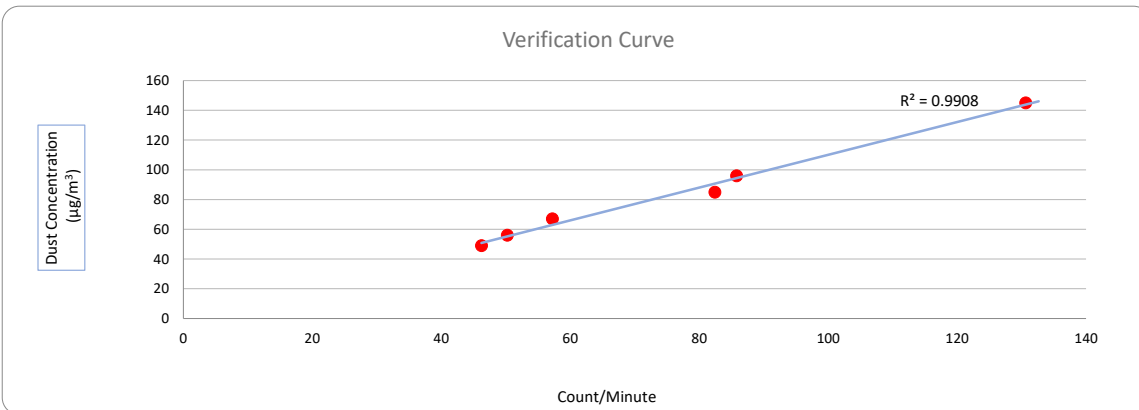
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5028A
Equipment serial no.:	1106	3702
Last Calibration Date:	04-Nov-23	31-Mar-23
Next Calibration Date:	04-Jan-24	30-Mar-24

Equipment Verification Result

Verification Test No.	Date	Duration			Results from Calibrated Equipment		Results from Standard Equipment
		Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration ($\mu\text{g}/\text{m}^3$) y-axis
1	28/11/2023	8789.68	8792.68	180.00	15446	86	96
2	28/11/2023	8792.68	8795.68	180.00	14835	82	85
3	28/11/2023	8795.68	8798.68	180.00	8320	46	49
4	30/11/2023	8798.68	8801.68	180.00	10303	57	67
5	30/11/2023	8801.68	8804.68	180.00	23517	131	145
6	30/11/2023	8804.68	8807.68	180.00	9043	50	56

Linear Regression of y on x

Slope, K factor:	<u>1.1020</u>	Intercept:	<u>-0.1223</u>	*Correlation Coefficient, R:	<u>0.9954</u>
Verification Test Result:	<u>Strong Correlation. Results were accepted.</u>			* If the Correlation Coefficient, R is <0.5. Checking and Re-verification are required.	



Operated By: Andy Li
Project Technician, Environmental

Date: 02-12-2023

Checked By: Tandy Tse
Senior Consultant, Environmental

Date: 02-12-2023

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	Representative For Wo Keng Shan Tsuen	Site ID:	AM3	Date:	04-Jan-2024
Serial No:	1856	Model:	TE-5170X	Operator:	Andy Li

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	757.2	Actual Temperature during Calibration (T_a) (deg K):	234.0
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Calibration Orifice

Model:	TE-5028A	Slope (m_c):	1.68024
Serial No.:	3702	Intercept (b_c):	-0.04353
Calibration Due Date:	31-Mar-24	Corr. Coeff:	0.99994

Calibration Data

Plate or Test #	ΔH_2O (in)	Qa, X-Axis (m ³ /min)	I, CFM (chart)	IC, Y-Axis (corrected)
1	8.90	2.026	60.0	67.58
2	7.00	1.800	54.0	60.83
3	6.40	1.722	50.0	56.32
4	4.80	1.495	45.0	50.69
5	3.40	1.262	40.0	45.06

Sampler Calibration Relationship (Qa on x-axis, IC on y-axis)

$m = \underline{\hspace{2cm} 29.6458 \hspace{2cm}}$
 $b = \underline{\hspace{2cm} 6.8595 \hspace{2cm}}$
 $\text{Corr. Coeff} = \underline{\hspace{2cm} 0.9931 \hspace{2cm}}$

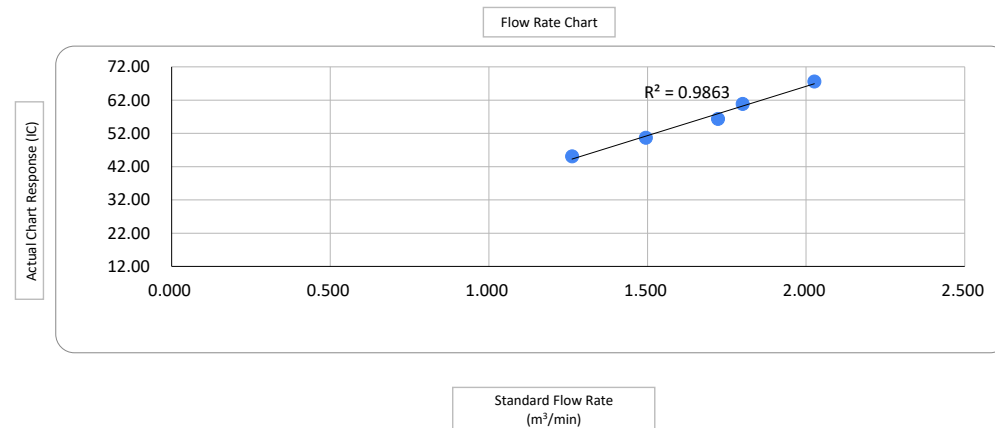
Calculations

$$Qa = 1/m_c * [\text{Sqrt}(\Delta H_2O * (P_a/P_{Std}) * (T_{Std}/T_a)) - b_c]$$

$$IC = I * (\text{Sqrt}(P_a/P_{Std}) * (T_{Std}/T_a))$$

Qa = actual flow rate
 IC = corrected chart response
 I = actual chart response
 m_c = calibrator slope
 b_c = calibrator intercept

m = sampler slope
 b = sampler intercept
 T_{Std} = 298 deg K
 P_{Std} = 760 mm Hg
 T_a = actual temperature during calibration (deg K)
 P_a = actual pressure during calibration (mm Hg)



Checked by: F.C Tsang
 Environmental Team Leader

Date: 04-Jan-2024

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	Representative For Tung Lo Hang	Site ID:	AM1	Date:	04-Jan-2024
Serial No:	1105	Model:	TE-5170X	Operator:	Andy Li

Ambient Condition

Actual Pressure during Calibration (P _a) (mm Hg):	757.2	Actual Temperature during Calibration (T _a) (deg K):	234.0
---	-------	--	-------

Calibration Orifice

Model:	TE-5028A	Slope (m _c):	1.68024
Serial No.:	3702	Intercept (b _c):	-0.04353
Calibration Due Date:	31-Mar-24	Corr. Coeff:	0.99994

Calibration Data

Plate or Test #	ΔH ₂ O (in)	Qa, X-Axis (m ³ /min)	I, CFM (chart)	IC, Y-Axis (corrected)
1	9.80	2.125	56.0	63.08
2	8.80	2.015	54.0	60.83
3	7.60	1.874	51.0	57.45
4	6.40	1.722	48.0	54.07
5	4.20	1.400	40.0	45.06

Sampler Calibration Relationship (Qa on x-axis, IC on y-axis)

m = 24.9080 b = 10.5891 Corr. Coeff = 0.9982

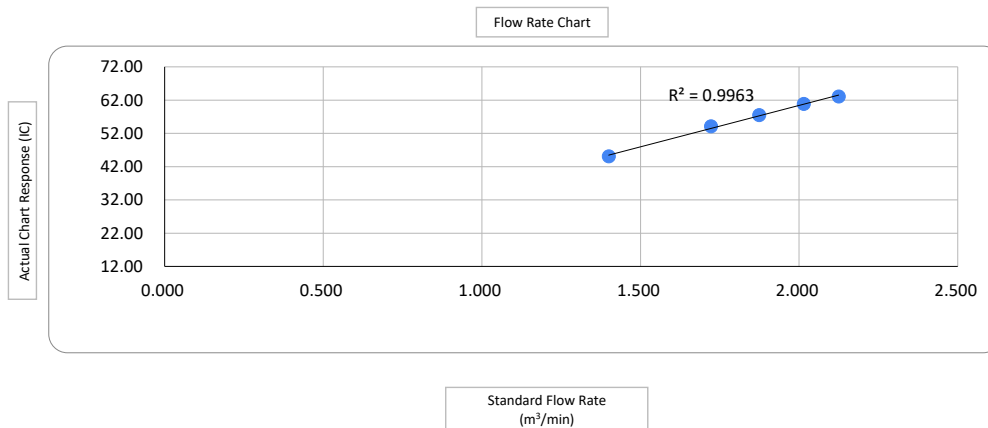
Calculations

$$Qa = 1/m_c * [\text{Sqrt}(\Delta H_2O * (P_a/P_{Std}) * (T_{Std}/T_a)) - b_c]$$

$$IC = I * (\text{Sqrt}(P_a/P_{Std}) * (T_{Std}/T_a))$$

Qa = actual flow rate
 IC = corrected chart response
 I = actual chart response
 m_c = calibrator slope
 b_c = calibrator intercept

m = sampler slope
 b = sampler intercept
 T_{Std} = 298 deg K
 P_{Std} = 760 mm Hg
 T_a = actual temperature during calibration (deg K)
 P_a = actual pressure during calibration (mm Hg)



Checked by: F.C Tsang
 Environmental Team Leader

Date: 04-Jan-2024

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	Representative For Heung YuenWai	Site ID:	AM2	Date:	04-Jan-2024
Serial No:	1106	Model:	TE-5170X	Operator:	Andy Li

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	757.2	Actual Temperature during Calibration (T_a) (deg K):	234.0
---	-------	--	-------

Calibration Orifice

Model:	TE-5028A	Slope (m_c):	1.68024
Serial No.:	3702	Intercept (b_c):	-0.04353
Calibration Due Date:	31-Mar-24	Corr. Coeff:	0.99994

Calibration Data

Plate or Test #	ΔH_2O (in)	Qa, X-Axis (m ³ /min)	I, CFM (chart)	IC, Y-Axis (corrected)
1	7.90	1.910	59.0	66.46
2	5.70	1.626	54.0	60.83
3	4.90	1.510	51.0	57.45
4	2.30	1.043	43.0	48.44
5	2.00	0.974	40.0	45.06

Sampler Calibration Relationship (Qa on x-axis, IC on y-axis)

$m = \underline{\underline{22.1113}}$ $b = \underline{\underline{24.4102}}$ Corr. Coeff = $\underline{\underline{0.9966}}$

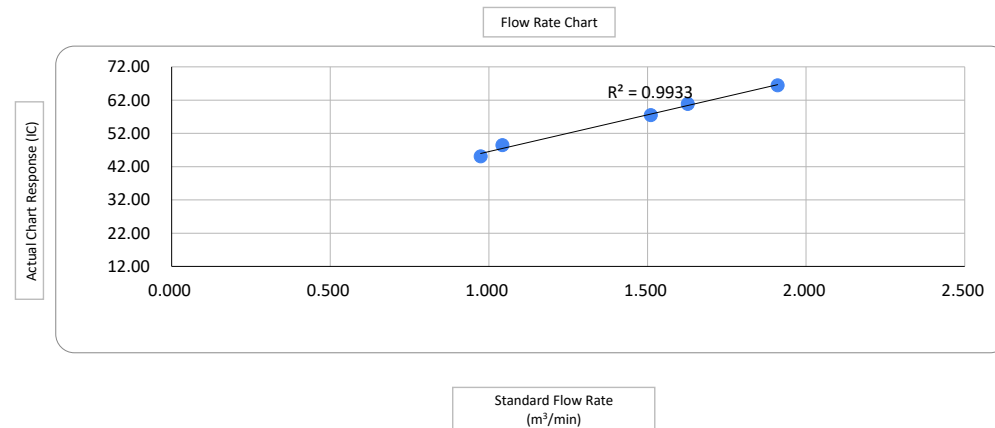
Calculations

$$Qa = 1/m_c * [\text{Sqrt}(\Delta H_2O * (P_a/P_{Std}) * (T_{Std}/T_a)) - b_c]$$

$$IC = I * (\text{Sqrt}(P_a/P_{Std}) * (T_{Std}/T_a))$$

Qa = actual flow rate
 IC = corrected chart response
 I = actual chart response
 m_c = calibrator slope
 b_c = calibrator intercept

m = sampler slope
 b = sampler intercept
 T_{Std} = 298 deg K
 P_{Std} = 760 mm Hg
 T_a = actual temperature during calibration (deg K)
 P_a = actual pressure during calibration (mm Hg)



Checked by: F.C Tsang
 Environmental Team Leader

Date: 04-Jan-2024



Certificate of Calibration

Calibration Certification Information			
Cal. Date: March 31, 2023	Rootsmeter S/N: 438320	Ta: 294	°K
Operator: Jim Tisch		Pa: 748.54	mm Hg
Calibration Model #: TE-5028A	Calibrator S/N: 3702		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.3110	4.1	1.50
2	3	4	1	1.0280	6.7	2.50
3	5	6	1	0.9340	8.1	3.00
4	7	8	1	0.8680	9.4	3.50
5	9	10	1	0.6580	16.2	6.00

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)
0.9929	0.7573	1.2237	0.9945	0.7586	0.7676
0.9894	0.9624	1.5798	0.9910	0.9641	0.9909
0.9875	1.0573	1.7306	0.9892	1.0591	1.0855
0.9858	1.1357	1.8693	0.9874	1.1376	1.1725
0.9767	1.4844	2.4474	0.9784	1.4869	1.5351
QSTD	m=	1.68024	QA	m=	1.05214
	b=	-0.04353		b=	-0.02731
	r=	0.99994		r=	0.99994

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.

Noise

Certificate of Calibration

for

Description: Sound Level Meter
Manufacturer: NTi Audio
Type No.: XL2 (Serial No.: A2A-09696-E0)
Microphone: ACO 7052 (Serial No.:68914)
Preamplifier: NTi Audio MA220 (Serial No.:10390)

Submitted by:

Customer: Acuity Sustainability Consulting Limited
Address: Unit E, 12/F, Ford Glory Plaza,
Nos. 37-39 Wing Hong Street,
Cheung Sha Wan, Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

- Within (31.5Hz – 4kHz)
 Outside

the allowable tolerance.


The test equipment used for calibration are traceable to National Standards via:

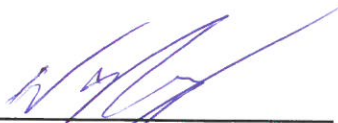
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 30 March 2023

Date of calibration: 04 April 2023

Date of NEXT calibration: 03 April 2024

Calibrated by: 
Calibration Technician

Certified by: 
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: 04 April 2023

Certificate No.: APJ22-164-CC002



Page 1 of 4

1. Calibration Precaution:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Conditions:

Air Temperature: 21.5 °C
 Air Pressure: 1005 hPa
 Relative Humidity: 71.4 %

3. Calibration Equipment:

	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)				Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting		Time Weighting	Level, dB	Frequency, Hz		
30-130	dBA	SPL	Fast	94	1000	94.1	±0.4

Linearity

Setting of Unit-under-test (UUT)				Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting		Time Weighting	Level, dB	Frequency, Hz		
30-130	dBA	SPL	Fast	94	1000	94.1	Ref
				104		104.1	±0.3
				114		114.1	±0.3

Time Weighting

Setting of Unit-under-test (UUT)				Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting		Time Weighting	Level, dB	Frequency, Hz		
30-130	dBA	SPL	Fast	94	1000	94.1	Ref
			Slow			94.1	±0.3

Certificate No.: APJ22-164-CC002



Page 2 of 4

Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dB	SPL	94	31.5	94.3	±2.0
				63	94.3	±1.5
				125	94.3	±1.5
				250	94.2	±1.4
				500	94.2	±1.4
				1000	94.1	Ref
				2000	93.8	±1.6
				4000	93.1	±1.6

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dBA	SPL	94	31.5	55.0	-39.4±2.0
				63	68.2	-26.2±1.5
				125	78.2	-16.1±1.5
				250	85.6	-8.6±1.4
				500	91.0	-3.2±1.4
				1000	94.1	Ref
				2000	95.0	+1.2±1.6
				4000	94.1	+1.0±1.6

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dBC	SPL	94	31.5	91.3	-3.0±2.0
				63	93.5	-0.8±1.5
				125	94.1	-0.2±1.5
				250	94.2	-0.0±1.4
				500	94.2	-0.0±1.4
				1000	94.1	Ref
				2000	93.6	-0.2±1.6
				4000	92.3	-0.8±1.6



Certificate No.: APJ22-164-CC002

Page 3 of 4

5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.15
	63 Hz	± 0.10
	125 Hz	± 0.05
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.

Certificate of Calibration

for

Description: *Sound Level Calibrator*
Manufacturer: *RION*
Type No.: *NC-75*
Serial No.: *34724245*

Submitted by:

Customer: *Acuity Sustainability Consulting Limited*
Address: *Unit E, 12/F, Ford Glory Plaza,
Nos. 37-39 Wing Hong Street,
Cheung Sha Wan, Kowloon,
Hong Kong*

Upon receipt for calibration, the instrument was found to be:

- Within**
- Outside**

the allowable tolerance.

The test equipments used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 27 July 2023

Date of calibration: 3 August 2023

Date of NEXT calibration: 2 August 2024

Calibrated by: _____
Calibration Technician

Certified by: _____
*Mr. Ng Yan Wa
Laboratory Manager*

Date of issue: 3 August 2023

Certificate No.: APJ23-049-CC003



1. Calibration Precautions:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Specifications:

Calibration check

3. Calibration Conditions:

Air Temperature: 22.6°C
Air Pressure: 1006 hPa
Relative Humidity: 52.9 %

4. Calibration Equipment:

Test Equipment	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV220120	HOKLAS

5. Calibration Results

5.1 Sound Pressure Level

Nominal value dB	Accept lower level dB	Accept upper level dB	Measured value dB
94.0	93.6	94.4	94.0

Note:

The values given in this certification only related to the values measured at the time of the calibration.



AI

Calibration Certificate

Certificate No. **300737**

Page 1 of 2 Pages

Customer : Acuity Sustainability Consulting Limited

Address : Unit E, 12/F, Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, H.K.

Order No. : Q30320

Date of receipt : 2-Feb-23

Item Tested

Description : Hot Wire Anemometer

Manufacturer : RS PRO

I.D. : ASCL-EQ-111

Model : RS-90

Serial No. : 210722208

Test Conditions

Date of Test : 13-Feb-23

Supply Voltage : --

Ambient Temperature : $(23 \pm 3)^\circ\text{C}$

Relative Humidity : $(50 \pm 25) \%$

Test Specifications

Calibration check.

Ref. Document/Procedure : T03, Z04.

Test Results

All results were within the manufacturer's specification.

The results are shown in the attached page(s).

Main Test equipment used:

<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
S155	Std. Anemometer	206240	NIM-PRC
S223C	Std. Thermometer	205617	NIM-PRC

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI), or by reference to a natural constant. The test results apply to the above Unit-Under-Test only

Calibrated by : 
James Yau

Approved by : 
Steve Kwan

This Certificate is issued by:
Hong Kong Calibration Ltd.

Date: 13-Feb-23

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.
Tel: 2425 8801 Fax: 2425 8646



Calibration Certificate

Certificate No. 300737

Page 2 of 2 Pages

Results :

1. Velocity

Applied Value (m/s)	UUT Reading (m/s)	Mfr's Spec.
0.00	0.00	± (3 % of reading + 0.3 m/s)
2.50	2.43	
5.00	5.04	
10.00	10.07	
15.00	15.65	
19.00	19.87	

2. Temperature

Applied Value (°C)	UUT Reading (°C)	Mfr's Spec.
23.12	23.0	± 2 °C

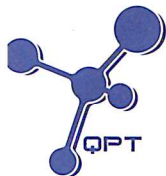
Remark : 1. UUT: Unit-Under-Test

2. Uncertainty : ± (0.9 % + 0.16 m/s) for Velocity, ± 0.1 °C for Temperature, for a confidence probability of not less than 95 %.

3. Atmospheric Pressure: 1 002 hPa

----- END -----

Water Quality



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong
 Email: info@qualityprotest.com; Website: www.qualityprotest.com
 Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BC120001
 Date of Issue : 05 December 2023
 Page No. : 1 of 2

PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited
 Unit E, 12/F, Ford Glory Plaza 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment : HORIBA U-53
 Manufacturer : HORIBA
 Serial Number : PPHNOMXY
 Date of Received : 30 November 2023
 Date of Calibration : 04 December 2023
 Date of Next Calibration : 03 March 2024
 Request No. : D-BC120001

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter	Reference Method
pH value	APHA 21e 4500-H ⁺ B
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure
Salinity	APHA 21c 2520 B
Dissolved oxygen	APHA 23e 4500-O G (Membrane Electrode Method)
Turbidity	APHA 21c 2130 B (Nephelometric Method)

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.10	0.10	Satisfactory
7.42	7.44	0.02	Satisfactory
10.01	9.92	-0.09	Satisfactory

Tolerance of pH value should be less than ± 0.2 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
36	36.77	0.77	Satisfactory
25	26.77	1.77	Satisfactory
15	16.26	1.26	Satisfactory

Tolerance of Temperature should be less than ± 2.0 (°C)

(3) Salinity

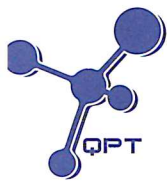
Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	10.00	0.00	Satisfactory
20	21.07	5.35	Satisfactory
30	32.30	7.67	Satisfactory

Tolerance of Salinity should be less than ± 10.0 (%)

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED
SIGNATORY:


 LEE Chun-ning
 Assistant Manager



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BC120001
Date of Issue : 05 December 2023
Page No. : 2 of 2

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
7.99	7.66	-0.33	Satisfactory
5.00	4.68	-0.32	Satisfactory
2.58	2.21	-0.37	Satisfactory
0.10	0.07	-0.03	Satisfactory

Tolerance of Dissolved oxygen should be less than ± 0.5 (mg/L)

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.62	--	Satisfactory
10	9.29	-7.1	Satisfactory
20	21.30	6.5	Satisfactory
100	105.00	5.0	Satisfactory
800	850.00	6.3	Satisfactory

Tolerance of Turbidity should be less than ± 10.0 (%)

Remark(s)

- The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.
- The results relate only to the calibrated equipment as received
- The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
- "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted from relevant international standards.

--- END OF REPORT ---



Calibration Certificate

Certificate No. **300745**

Page 1 of 2 Pages

Customer : Acuity Sustainability Consulting Limited

Address : Unit E, 12/F, Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, H.K.

Order No. : Q30320

Date of receipt : 2-Feb-23

Item Tested

Description : Global Flow Probe

Manufacturer : Global Water

Model : FP111

I.D. : --

Serial No. : 22K100858

Test Conditions

Date of Test : 27-Mar-23

Ambient Temperature : 20°C

Supply Voltage : --

Relative Humidity : 75%

Test Specifications

Calibration check.

Ref. Document/Procedure : V12

Test Results

All results were within the manufacturer's specification.

The results are shown in the attached page(s).

Main Test equipment used:

<u>Equipment No.</u>	<u>Description</u>	<u>Cert. No.</u>	<u>Traceable to</u>
S179	Std. Tape	301321	NIM-PRC
S136A	Stop Watch	201878	SCL-HKSAR

The values given in this Calibration Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Hong Kong Calibration Ltd. shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration are traceable to International System of Units (SI), or by reference to a natural constant. The test results apply to the above Unit-Under-Test only

Calibrated by : 
Kin Wong

Approved by : 
Alan Chu

Date: 27-Mar-23

This Certificate is issued by:
Hong Kong Calibration Ltd.

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong.
Tel: 2425 8801 Fax: 2425 8646



Calibration Certificate

Certificate No. 300745

Page 2 of 2 Pages

Results :

Applied Value (m/s)	UUT Reading (m/s)	Mfr's Spec.
0.78	0.8	± 0.1 m/s

Remarks : 1. UUT : Unit-Under-Test

2. Uncertainty : ± 1 %, for a confidence probability of not less than 95%.

----- END -----

Landfill Gas

CERTIFICATION OF CALIBRATION



Date Of Calibration: 31-Aug-2023

Certificate Number: G505207_1/33483

Issued by: QED Environmental Systems Ltd.

Customer: Onuee Electronics Ltd
C3-E TCL Science Park No.1001 Zhong Shan Yuan Rd.
Nanshan Shenzhen 518052 CHINA

Description: Gas Analyser

Model: GEM5000

Serial Number: G505207

UKAS Accredited results:

Results after adjustment :

Methane (CH ₄)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	5.0	0.072
15.0	15.1	0.13
60.0	59.7	0.42

Carbon Dioxide (CO ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	4.8	0.074
15.0	14.5	0.13
40.0	39.9	0.29

Oxygen (O ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
20.2	20.3	0.25

The inwards assessment was carried out 21-Aug-2023.
The maximum adjustment is larger than the specification limit.
Inwards assessment data is available if requested.

All concentrations are molar.

CH₄, CO₂ readings recorded at : 33.2 °C ± 2.5 °C

O₂ readings recorded at : 24.4 °C ± 2.5 °C

Barometric Pressure : 0998 mbar ± 4 mbar

Method of Test : The analyser is calibrated in a temperature controlled chamber using a series of reference gases, in compliance with procedure LP004. .

Instrument has passed calibration as the measurement result is within the specification limit. The specification limit takes into account the measurement uncertainty.

The results relate only to the item calibrated

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance:117 IGC Instance:117

Page 1 of 2 | LP015GIUKAS-2.5

www.qedenv.com +44 (0) 333 800 0088 sales@qedenv.co.uk

QED Environmental Systems Ltd. Cyan Park - Unit 3, Jimmy Hill Way, Coventry, CV2 4QP, UNITED KINGDOM

Registered in England and Wales 1898734

CERTIFICATION OF CALIBRATION



Date Of Calibration: 31-Aug-2023

Certificate Number: G505207_1/33483

Issued by: QED Environmental Systems Ltd.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

Calibrations marked 'Non-UKAS Accredited results' on this certificate have been included for completeness.

Non-UKAS accredited results after adjustment:

Barometer (mbar)	
Reference	Instrument Reading
998	999

Additional Gas Cells		
Gas	Certified Gas (ppm)	Instrument Reading (ppm)
CO	501	507

Date of Issue : 07-Sep-2023

Approved by Signatory

Fani Zolota

Laboratory Inspection

End of Certificate

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance:117 IGC Instance:117

Page 2 of 2 | LP015GIUKAS-2.5

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QED Environmental Systems Ltd. Cyan Park - Unit 3, Jimmy Hill Way, Coventry, CV2 4QP, UNITED KINGDOM

Registered in England and Wales 1898734

Appendix F Monitoring Results

Air Quality

1-hour TSP Concentration ($\mu\text{g}/\text{m}^3$) at Location AM1

Date	Equipment Brand & Model	Equipment Serial No.	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
3/2/2024	Sibata LD-5R	882106	1.044	Fine	13:06	14:06	15:06	29	30	29	29	285	500
9/2/2024	Sibata LD-5R	882106	1.044	Fine	8:06	9:06	10:06	24	26	28	26		
15/2/2024	Sibata LD-5R	882106	1.044	Fine	8:15	9:15	10:15	26	28	27	27		
21/2/2024	Sibata LD-5R	882106	1.044	Fine	13:12	14:12	15:12	36	25	31	31		
27/2/2024	Sibata LD-5R	882106	1.044	Fine	14:44	15:44	16:44	26	28	30	28		
Average								28					
Max.								36					
Min.								24					

1-hour TSP Concentration ($\mu\text{g}/\text{m}^3$) at Location AM2

Date	Equipment Brand & Model	Equipment Serial No.	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
3/2/2024	Sibata LD-5R	942532	1.102	Fine	13:16	14:16	15:16	51	53	50	51	279	500
9/2/2024	Sibata LD-5R	0Z4545	1.045	Fine	8:16	9:16	10:16	51	56	53	53		
15/2/2024	Sibata LD-5R	942532	1.102	Fine	8:31	9:31	10:31	53	51	56	53		
21/2/2024	Sibata LD-5R	942532	1.102	Fine	13:21	14:21	15:21	41	40	39	40		
27/2/2024	Sibata LD-5R	0Z4545	1.045	Fine	15:00	16:00	17:00	51	50	50	50		
Average								50					
Max.								56					
Min.								39					

1-hour TSP Concentration ($\mu\text{g}/\text{m}^3$) at Location AM3

Date	Equipment Brand & Model	Equipment Serial No.	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
3/2/2024	Sibata LD-5R	0Z4545	1.045	Fine	13:24	14:24	15:24	60	61	62	61	285	500
9/2/2024	Sibata LD-5R	942532	1.102	Fine	8:50	9:50	10:50	51	53	53	52		
15/2/2024	Sibata LD-5R	0Z4545	1.045	Fine	8:46	9:46	10:46	55	57	50	54		
21/2/2024	Sibata LD-5R	0Z4545	1.045	Fine	13:40	14:40	15:40	50	40	51	47		
27/2/2024	Sibata LD-5R	942532	1.102	Fine	15:10	16:10	17:10	56	50	57	54		
Average								54					
Max.								62					
Min.								40					

The Summary of TSP 24-hour Concentration (µg/m³) at Location AM1

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time (minutes)	Averaged Flow Rate	Flow Rate	Total Flow Volume (m ³)	Filter Weight (g)		Particulate weight (g)	Concentration (µg/m ³)	Action Level (µg/m ³)	Limit Level (µg/m ³)
		(°C)	(hPa)	Initial	Final		(cfm)	(m ³ /min)		Initial	Final				
3/2/2024	Fine	21.5	1018.8	2549.04	2573.04	1440	39	1.16	1667	2.7382	2.8979	0.1597	96	164	260
9/2/2024	Fine	13.6	1025.0	2576.69	2600.69	1440	40	1.23	1773	2.7398	2.8925	0.1527	86		
15/2/2024	Fine	21.4	1019.1	2603.92	2627.92	1440	39	1.16	1669	2.7476	2.9180	0.1704	102		
21/2/2024	Fine	26.5	1015.6	2630.57	2654.57	1440	39	1.14	1642	2.6754	2.8189	0.1435	87		
27/2/2024	Fine	24.4	1013.1	2656.68	2680.68	1440	39	1.14	1645	2.7513	2.9447	0.1934	118		
												Average	98		
												Min	86		
												Max	118		

The Summary of 24-hour TSP Concentration (µg/m³) at Location AM2

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time (minutes)	Averaged Flow Rate	Flow Rate	Total Flow Volume (m ³)	Filter Weight (g)		Particulate weight (g)	Concentration (µg/m ³)	Action Level (µg/m ³)	Limit Level (µg/m ³)
		(°C)	(hPa)	Initial	Final		(cfm)	(m ³ /min)		Initial	Final				
3/2/2024	Fine	21.5	1018.8	2091.91	2115.91	1440	42	0.79	1142	2.7611	2.8944	0.1333	117	152	260
9/2/2024	Fine	13.6	1026.5	2119.45	2143.45	1440	41	0.81	1169	2.7394	2.8827	0.1433	123		
15/2/2024	Fine	21.4	1019.1	2146.98	2170.98	1440	38	0.64	915	2.7344	2.8458	0.1114	122		
21/2/2024	Fine	26.5	1015.6	2173.10	2197.10	1440	38	0.61	884	2.6869	2.7817	0.0948	107		
27/2/2024	Fine	24.4	1013.1	2199.46	2223.46	1440	41	0.75	1083	2.6700	2.7999	0.1299	120		
												Average	118		
												Min	107		
												Max	123		

The Summary of 24-hour TSP Concentration (µg/m³) at Location AM3

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time (minutes)	Averaged Flow Rate	Flow Rate	Total Flow Volume (m ³)	Filter Weight (g)		Particulate weight (g)	Concentration (µg/m ³)	Action Level (µg/m ³)	Limit Level (µg/m ³)
		(°C)	(hPa)	Initial	Final		(cfm)	(m ³ /min)		Initial	Final				
3/2/2024	Fine	22.5	1018.8	3096.98	3120.98	1440	42	1.20	1725	2.7539	2.9390	0.1851	107	163	260
9/2/2024	Fine	13.6	1025.0	3124.80	3148.80	1440	42	1.23	1771	2.7421	2.9270	0.1849	104		
15/2/2024	Fine	21.4	1019.1	3151.69	3175.69	1440	42	1.20	1731	2.7422	2.9896	0.2474	143		
21/2/2024	Fine	26.5	1015.6	3178.83	3202.83	1440	42	1.19	1706	2.6755	2.8868	0.2113	124		
27/2/2024	Fine	24.4	1013.1	3205.28	3229.28	1440	42	1.19	1709	2.6412	2.8234	0.1822	107		
												Average	117		
												Min	104		
												Max	143		

- Remarks:
 1. Orange Text equal to exceed Action Level
 2. Red Text equal to exceed Limit Level

Noise

Impact Phase Construction Noise Monitoring Data at Location NM1a

Date	Weather	Wind speed	Start Time	End Time	L_{eq} (dB(A))							L_{10} (dB(A))						L_{90} (dB(A))						
		m/s			1st	2nd	3rd	4th	5th	6th	Overall (30min)	1st	2nd	3rd	4th	5th	6th	1st	2nd	3rd	4th	5th	6th	
9/2/2024	Fine	2.1	10:30	11:00	59.2	60.2	61.4	60.6	62.6	61.1	61.0	62.3	62.4	63.6	62.6	64.6	63.1	54.2	58.2	59.4	58.5	60.4	59.4	
15/2/2024	Fine	2.1	9:40	10:10	61.4	60.3	60.4	61.3	61.9	62.4	61.3	63.2	62.4	62.6	62.9	63.2	64.8	58.4	57.2	58.3	59.4	59.9	60.3	
21/2/2024	Fine	1.7	9:10	9:40	59.2	60.1	61.2	60.3	59.6	59.9	60.1	61.2	62.6	63.1	61.4	60.4	61.2	56.2	59.1	59.2	59.1	55.2	57.2	
27/2/2024	Fine	1.3	10:10	10:40	61.2	60.3	59.5	59.6	61.2	60.3	60.4	63.2	62.4	61.9	61.2	63.6	62.4	59.2	58.4	57.6	56.2	59.1	58.6	
											Average		60.7											
											Baseline Level		55.4											
											Action Level		When one valid documented complaint is received											
											Limit Level		75											

Impact Phase Construction Noise Monitoring Data at Location NM2a

Date	Weather	Wind speed	Start Time	End Time	L_{eq} (dB(A))							L_{10} (dB(A))						L_{90} (dB(A))						
		m/s			1st	2nd	3rd	4th	5th	6th	Overall (30min)	1st	2nd	3rd	4th	5th	6th	1st	2nd	3rd	4th	5th	6th	
9/2/2024	Fine	1.6	14:40	15:10	58.4	57.6	58.6	58	57.1	56.6	57.8	60.2	59.4	60.4	61.1	60.6	57.5	55.4	54.2	54.9	56.3	54.3	54.6	
15/2/2024	Fine	1.7	16:14	16:44	58.3	59.1	57.4	58.4	57	56.2	57.8	60.3	62.1	59.2	61.4	60.4	59.4	54.3	53.2	53.2	54.2	55.2	56.2	
21/2/2024	Fine	2.1	14:10	14:40	57.2	56.2	56.4	55.6	54.5	54.3	55.8	59.2	58.2	58.1	57.5	56.2	56.3	55.2	54.2	54.4	55	52.4	53.2	
27/2/2024	Fine	1.2	14:30	15:00	56.2	55.2	56.4	57.2	55.6	54.6	55.9	56.2	57.6	58.6	59.2	57.2	55.6	52.6	51.4	52.6	53.1	52.4	53.1	
											Average		57.0											
											Baseline Level		54.5											
											Action Level		When one valid documented complaint is received											
											Limit Level		75											

Water Quality

Monitoring Location: WM1

Date	Time	Weather	Water Depth (m)	Water Flow (L/s)	Water Temperature (°C)	DO (mg/L)			pH			Turbidity (NTU)			SS (mg/L)		
						Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level
15-Feb-24	16:14	Sunny	0.2	0.1	22.1	7.6	<7.4	<4	7.5	>7.7	>7.8	8.3	>9.2	>9.5	2.0	>9.7	>11.4

Monitoring Location: WM2

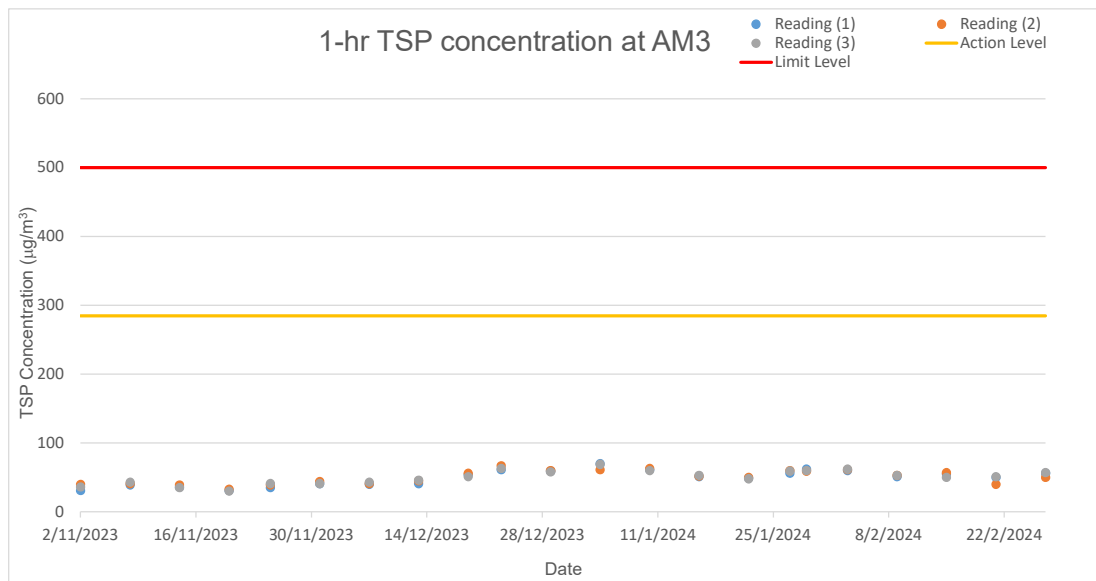
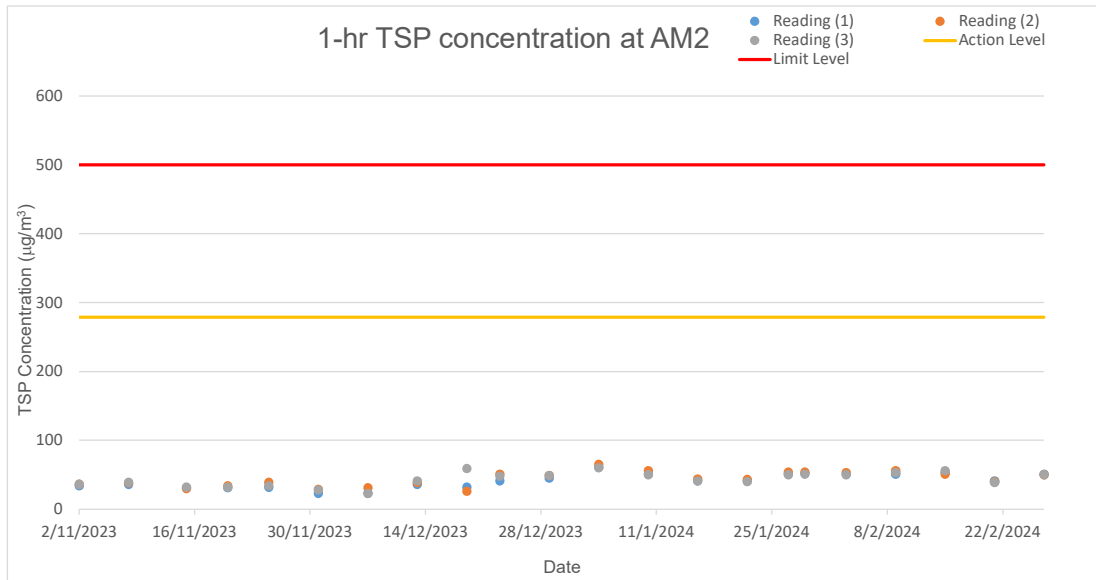
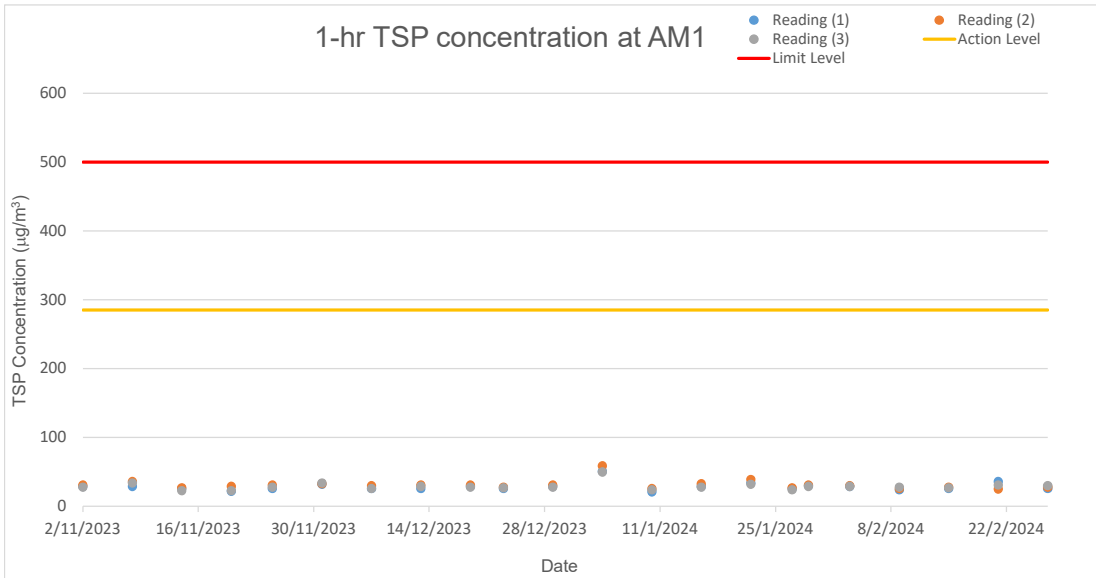
Date	Time	Weather	Water Depth (m)	Water Flow (L/s)	Water Temperature (°C)	DO (mg/L)			pH			Turbidity (NTU)			SS (mg/L)		
						Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level
15-Feb-24	8:08	Sunny	0.70	0.2	21.1	7.5	<5	<4	7.4	>7.6	>7.7	32.7	>108.3	>108.9	12.3	>94.5	>94.7

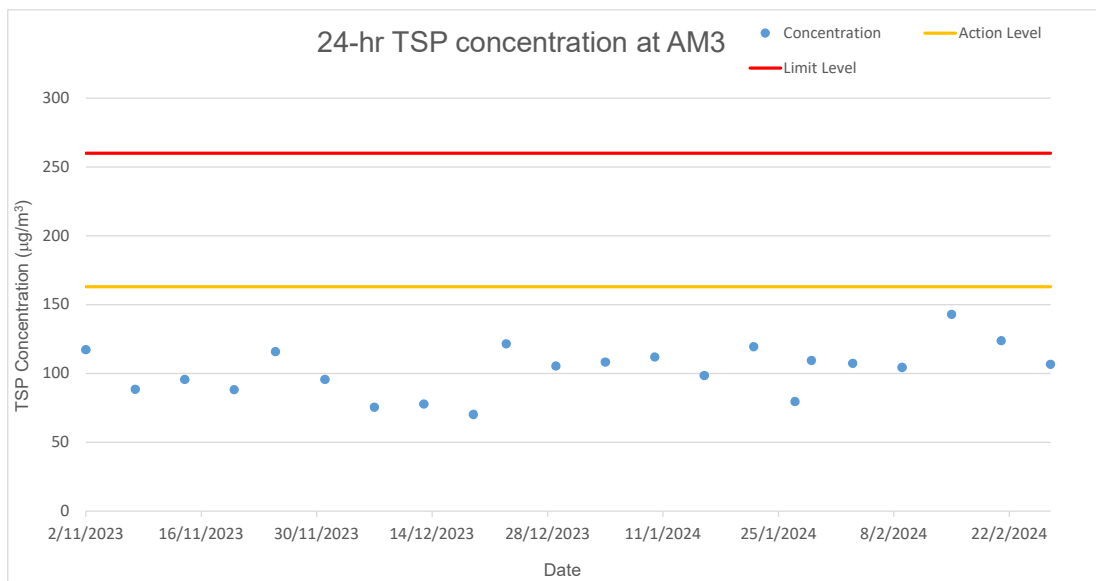
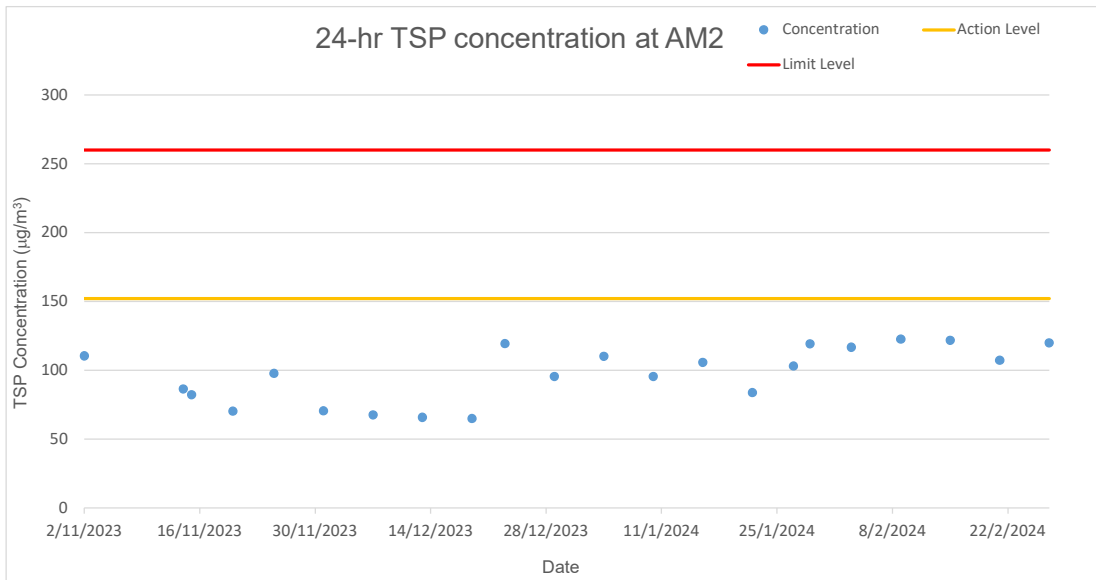
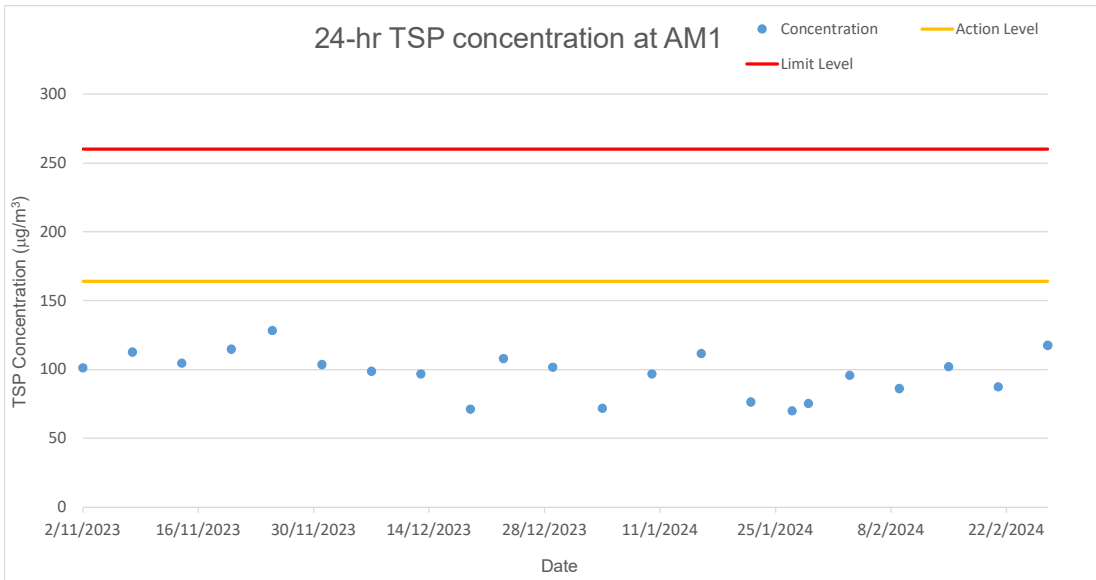
Remarks

1. Sample will be grabbed on surface when the water depth is less than 1m.
2. "TBC" equal to "To be confirm"
3. Orange Text equal to exceed Action Level
4. Red Text equal to exceed Limit Level

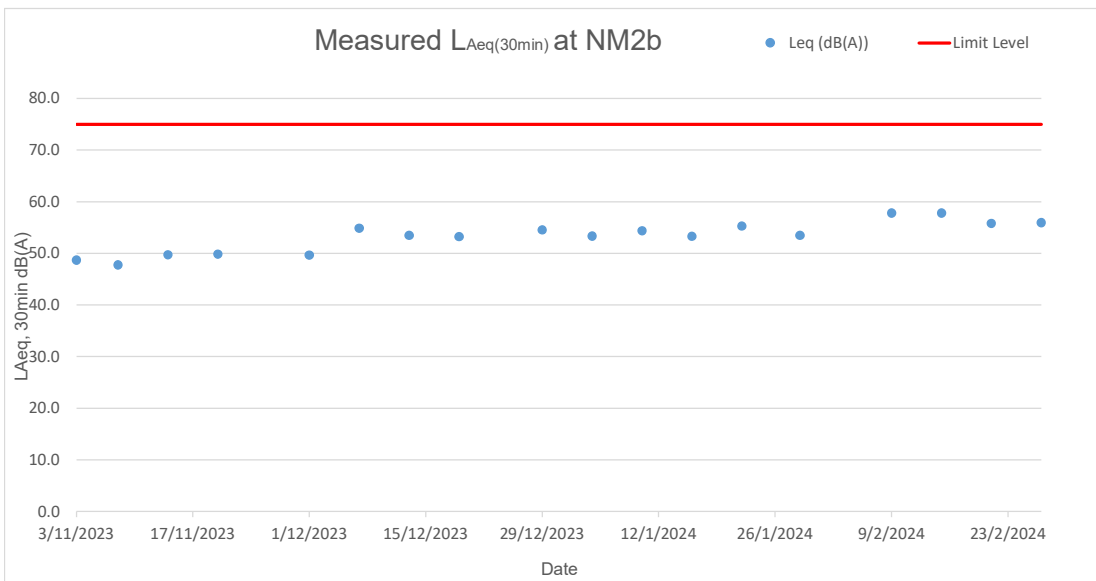
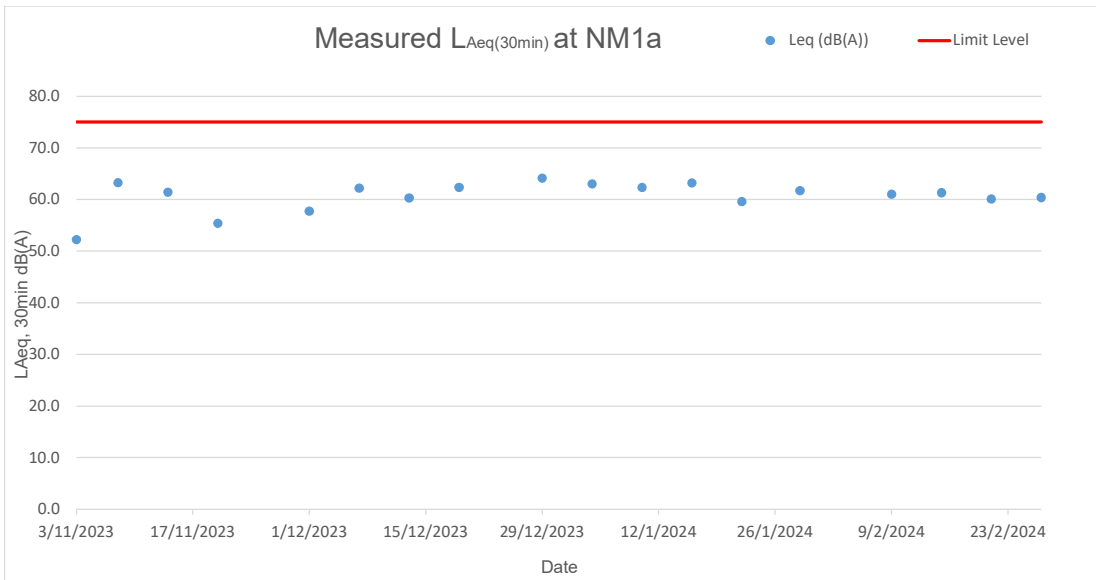
Appendix G Graphical Presentations

Air Quality



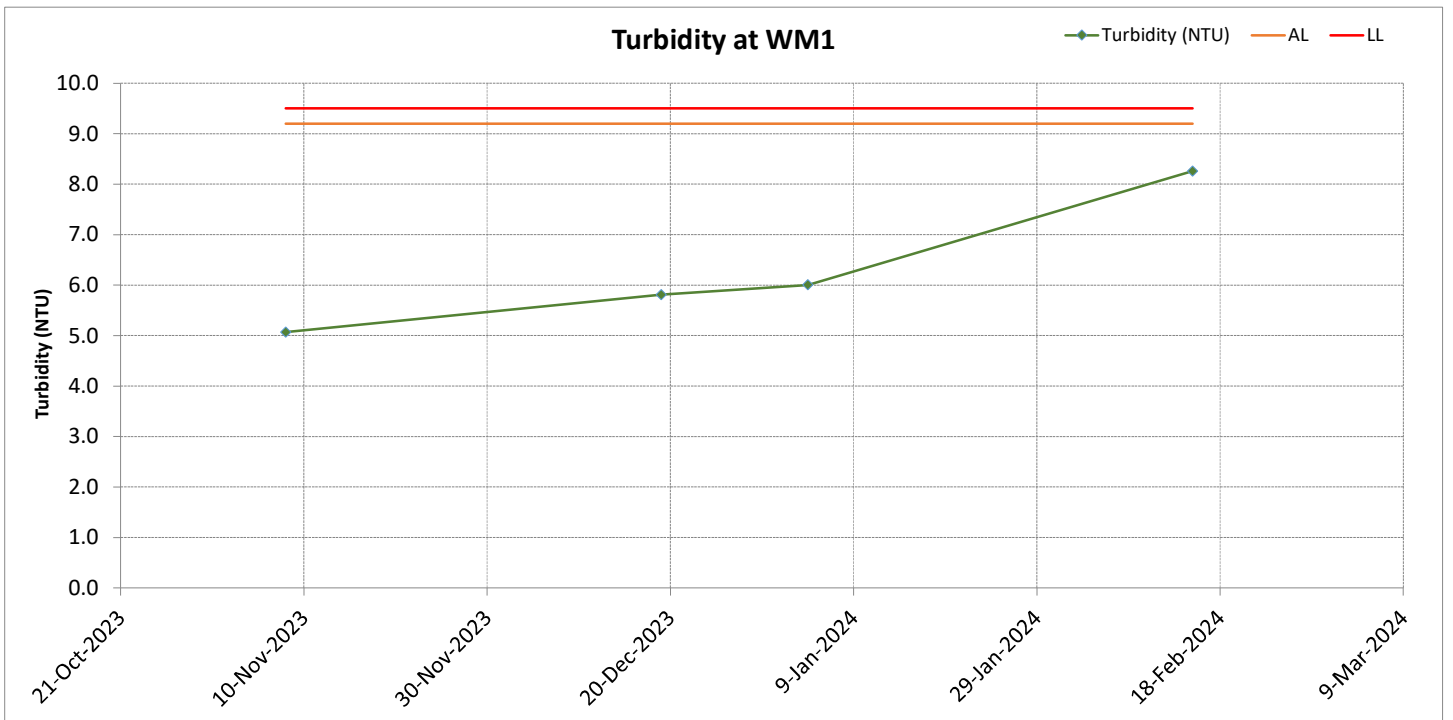
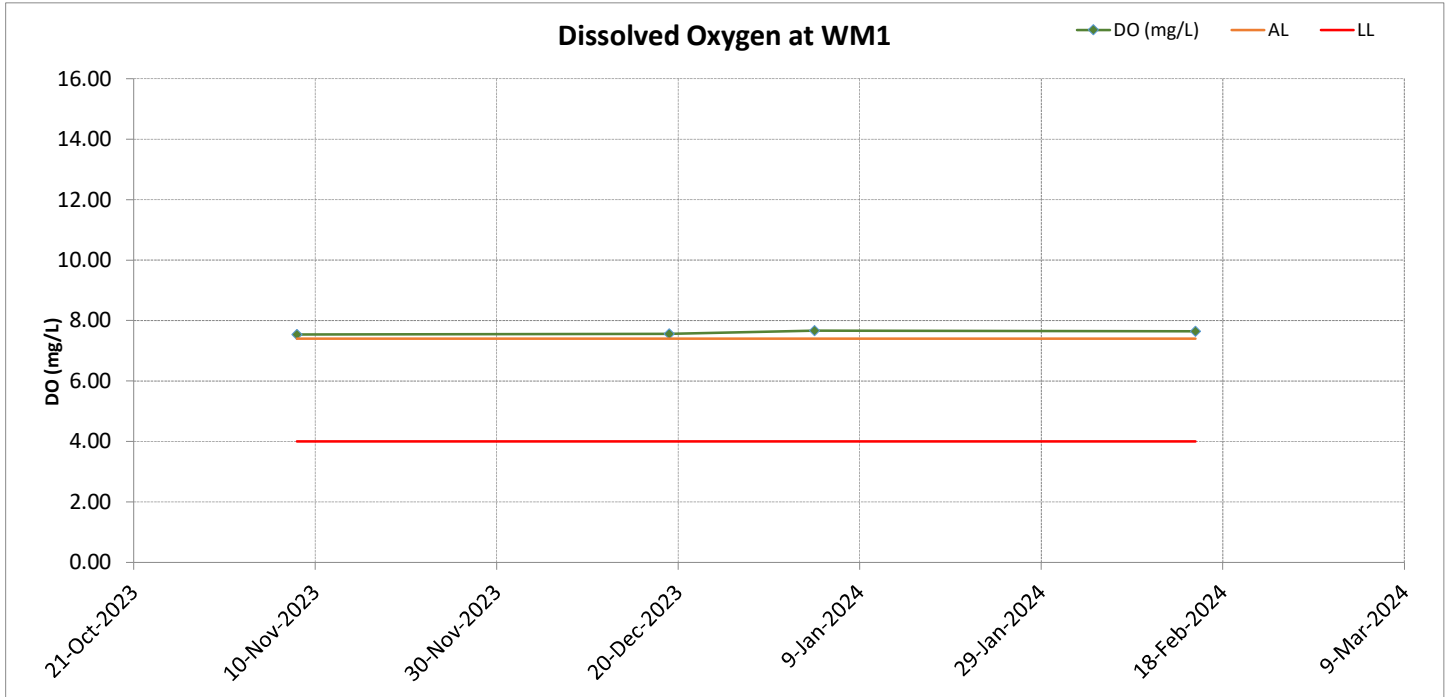


Noise

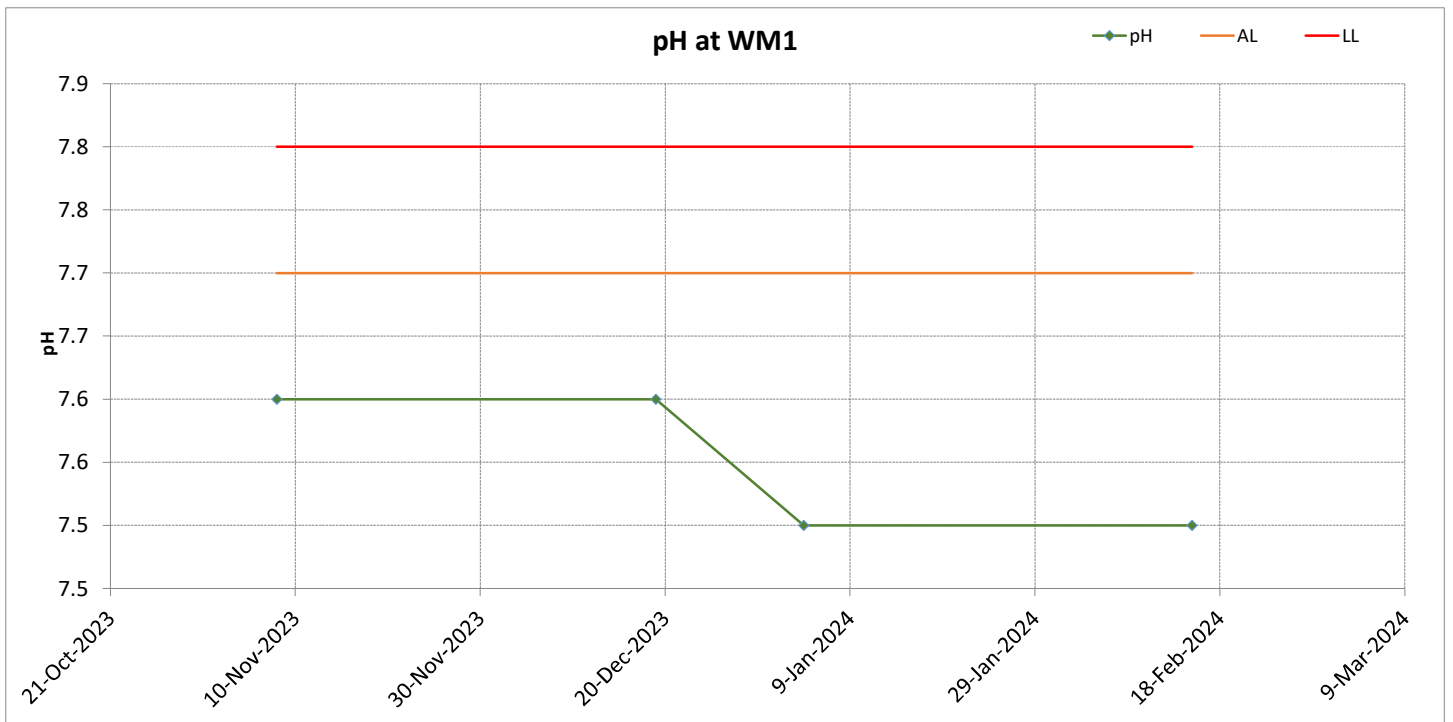
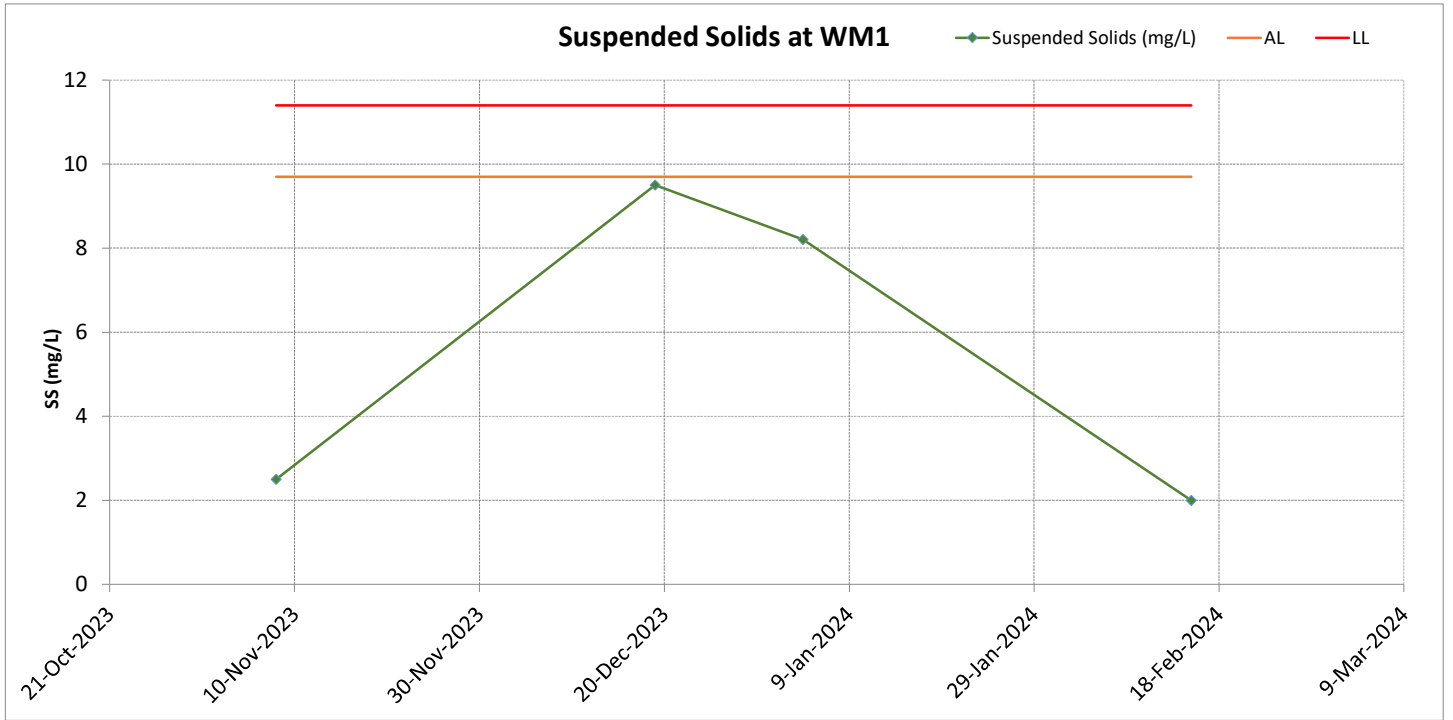


Water Quality

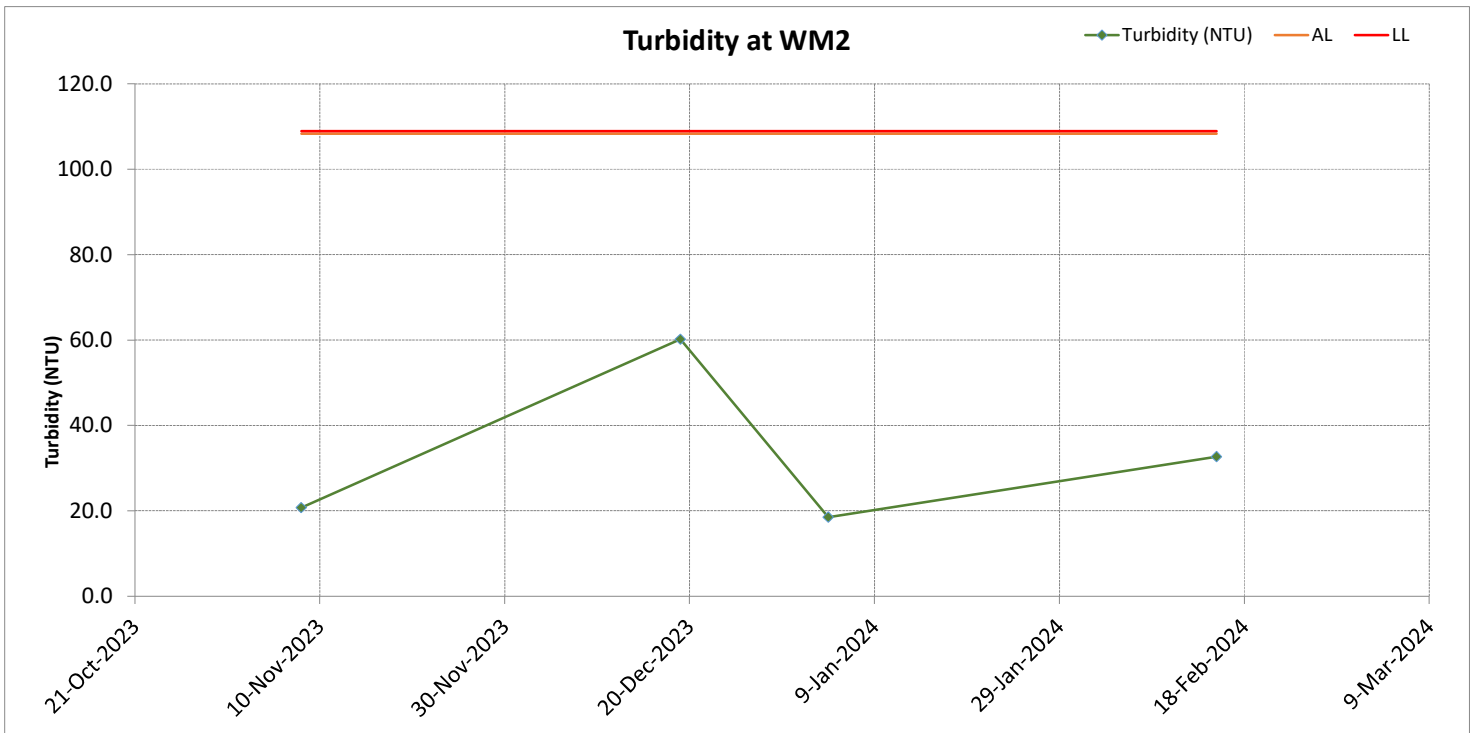
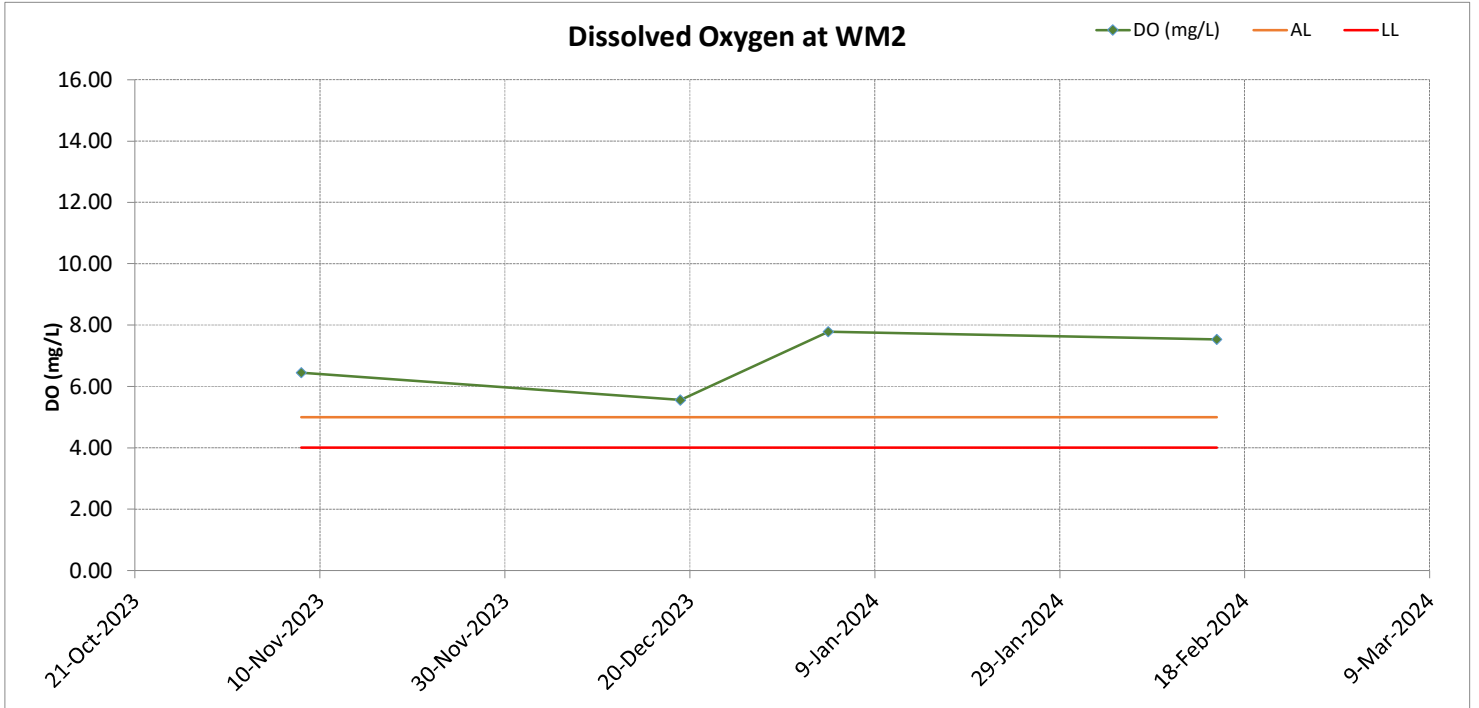
Surface Water Monitoring Results at WM1



Surface Water Monitoring Results at WM1

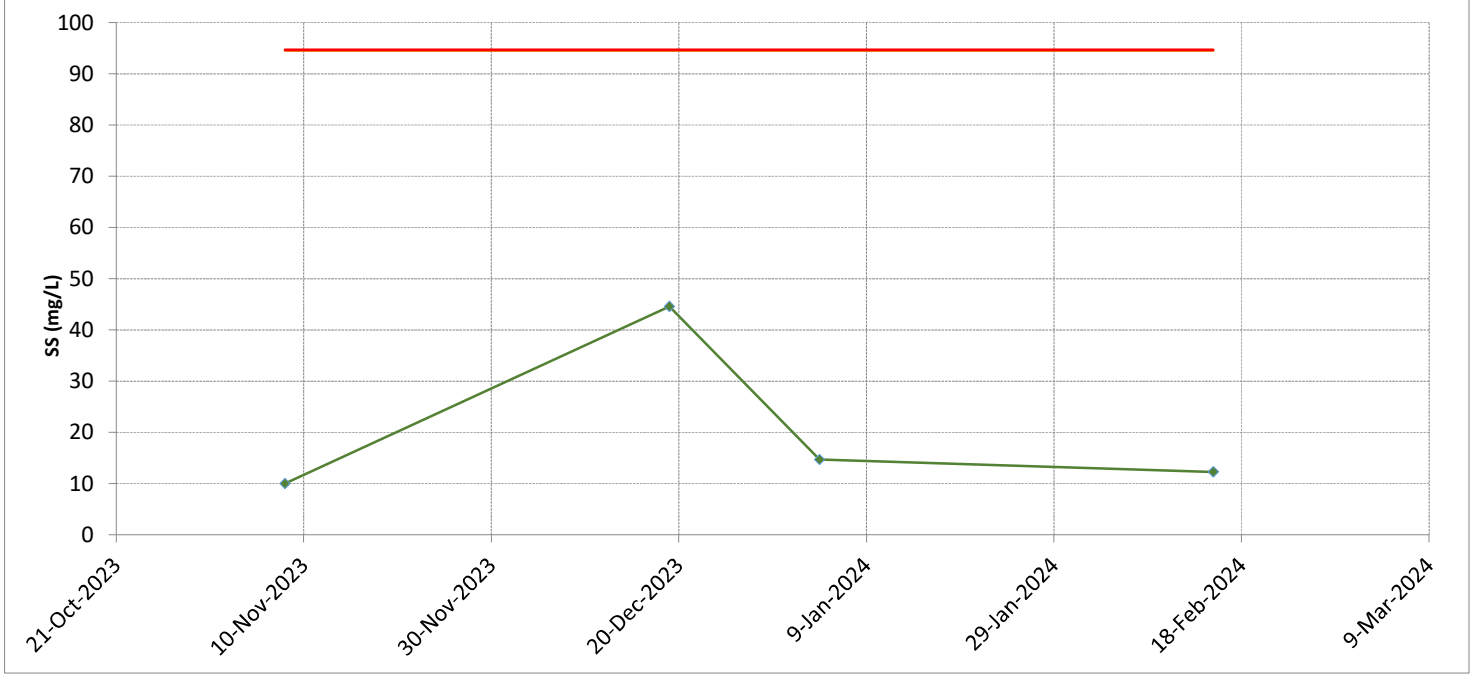


Surface Water Monitoring Results at WM2

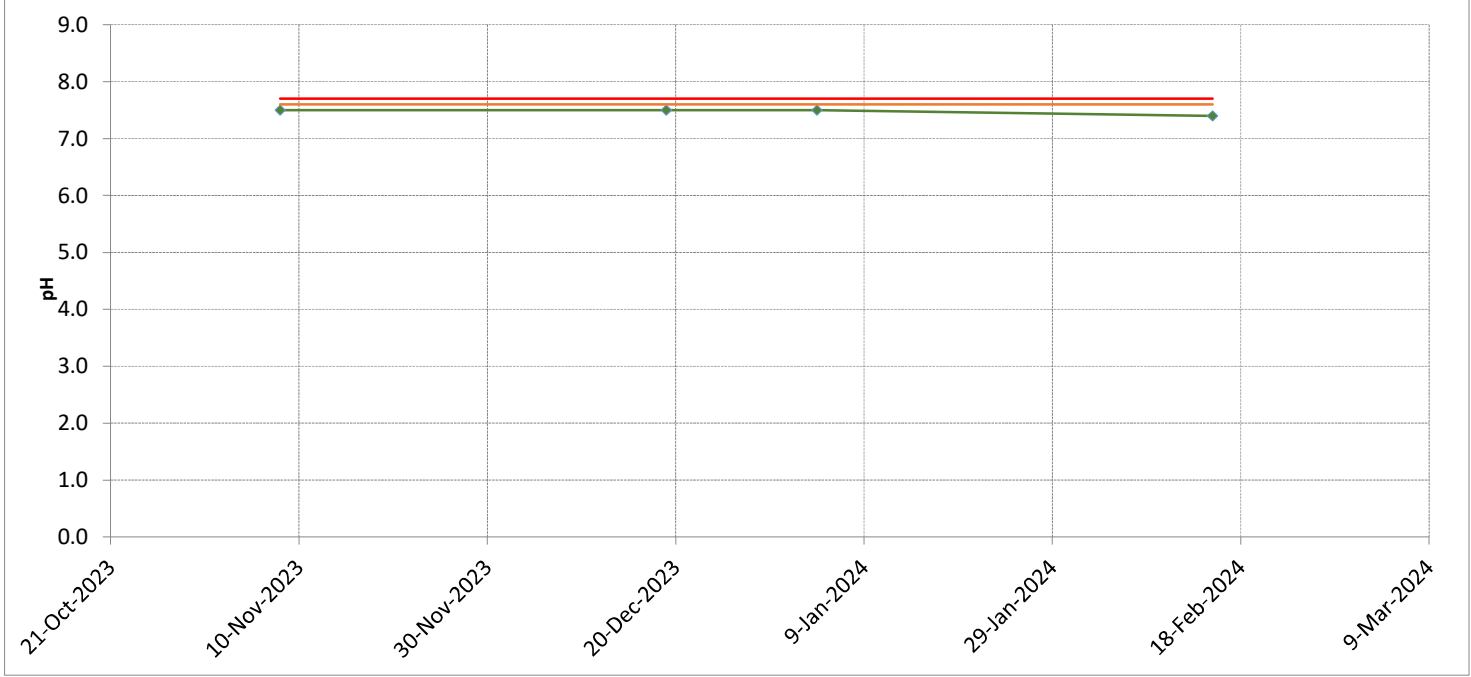


Surface Water Monitoring Results at WM2

Suspended Solids at WM2



pH at WM2



Appendix H Notification of Environmental Quality Limits Exceedance

Notification of Environmental Quality Limits Exceedance

Air Quality Monitoring - Construction Dust

Dust Monitoring Station	Level Exceedance	1-hr TSP Exceedance Count				24-hr TSP Exceedance Count			
		Reporting period		Accumulate project to date		Reporting period		Accumulate project to date	
		Project related	Non-project related	Project related	Non-project related	Project related	Non-project related	Project related	Non-project related
AM1	Action	0	0	0	0	0	0	0	2
	Limit	0	0	0	0	0	0	0	3
AM2	Action	0	0	0	0	0	0	0	0
	Limit	0	0	0	0	0	0	0	0
AM3	Action	0	0	0	0	0	0	0	4
	Limit	0	0	0	0	0	0	0	3

Noise Monitoring

Noise Monitoring Station	Level Exceedance	LAeq (30mins) Exceedance Count			
		Reporting period		Accumulate project to date	
		Project related	Non-project related	Project related	Non-project related
NM1a	Action	0	0	0	0
	Limit	0	0	0	0
NM2a	Action	0	0	0	0
	Limit	0	0	0	0

Appendix I Wind Data

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240201 0003	0.4	326
20240201 0013	0.2	334
20240201 0023	0.1	3
20240201 0033	0.7	333
20240201 0043	1.4	293
20240201 0053	0.2	137
20240201 0103	0.3	322
20240201 0113	0.1	348
20240201 0123	0.1	77
20240201 0133	0.3	116
20240201 0143	0.1	346
20240201 0153	0.1	299
20240201 0203	0.1	281
20240201 0213	0.1	73
20240201 0223	0.1	30
20240201 0233	0.1	168
20240201 0243	0.1	156
20240201 0253	0.1	131
20240201 0303	0.1	150
20240201 0313	0.1	259
20240201 0323	0.1	137
20240201 0333	0.1	340
20240201 0343	0.1	103
20240201 0353	0.1	287
20240201 0403	0.1	113
20240201 0413	0.1	117
20240201 0423	0.1	148
20240201 0433	0.1	166
20240201 0443	0.1	78
20240201 0453	0.1	186
20240201 0503	0.1	176
20240201 0513	0.1	36
20240201 0523	0.1	299
20240201 0533	0.1	284
20240201 0543	0.1	228
20240201 0553	0.1	136
20240201 0603	0.1	155
20240201 0613	0.1	90
20240201 0623	0.1	118
20240201 0633	0.1	155
20240201 0643	0.1	20
20240201 0653	0.2	68
20240201 0703	0.1	154
20240201 0713	0.1	223
20240201 0723	0.4	164
20240201 0733	0.1	18
20240201 0743	0.1	245
20240201 0753	0.8	129
20240201 0803	0.2	160
20240201 0813	0.5	112
20240201 0823	0.1	144
20240201 0833	0.1	253
20240201 0843	0.1	237
20240201 0853	0.1	261
20240201 0903	0.1	347
20240201 0913	0.1	37
20240201 0923	0.1	199
20240201 0933	0.1	252
20240201 0943	0.2	37
20240201 0953	0.2	98
20240201 1003	0.1	17
20240201 1013	0.1	284
20240201 1023	0.2	64
20240201 1033	0.2	160
20240201 1043	0.9	167
20240201 1053	0.1	83
20240201 1103	0.4	3
20240201 1113	0.8	352
20240201 1123	0.1	126
20240201 1133	0.2	183
20240201 1143	0.7	5
20240201 1153	0.1	187

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240201 1203	0.1	11
20240201 1213	1.3	73
20240201 1223	0.1	175
20240201 1233	2.2	165
20240201 1243	1.1	154
20240201 1253	1	331
20240201 1303	0.1	82
20240201 1313	0.3	290
20240201 1323	1	120
20240201 1333	1.2	50
20240201 1343	1.5	351
20240201 1353	4.3	110
20240201 1403	0.1	130
20240201 1413	0.8	91
20240201 1423	0.1	221
20240201 1433	0.6	70
20240201 1443	0.4	91
20240201 1453	1.8	22
20240201 1503	0.3	67
20240201 1513	0.1	353
20240201 1523	0.3	24
20240201 1533	0.1	8
20240201 1543	1.1	46
20240201 1553	0.2	331
20240201 1603	0.1	94
20240201 1613	0.6	59
20240201 1623	1.4	305
20240201 1633	0.1	299
20240201 1643	0.4	35
20240201 1653	0.4	92
20240201 1703	0.2	146
20240201 1713	0.1	145
20240201 1723	0.2	213
20240201 1733	0.1	142
20240201 1743	0.1	167
20240201 1753	0.4	133
20240201 1803	0.1	124
20240201 1813	0.3	121
20240201 1823	0.1	138
20240201 1833	0.1	186
20240201 1843	0.5	145
20240201 1853	0.4	171
20240201 1903	0.1	106
20240201 1913	0.3	90
20240201 1923	0.4	100
20240201 1933	0.2	107
20240201 1943	0.1	125
20240201 1953	0.1	94
20240201 2003	0.1	119
20240201 2013	0.1	8
20240201 2023	0.2	105
20240201 2033	0.1	98
20240201 2043	0.1	136
20240201 2053	0.1	306
20240201 2103	0.1	56
20240201 2113	0.1	15
20240201 2123	0.2	201
20240201 2133	0.1	327
20240201 2143	0.1	271
20240201 2153	0.1	150
20240201 2203	0.1	145
20240201 2213	0.1	348
20240201 2223	0.3	115
20240201 2233	0.1	279
20240201 2243	0.1	318
20240201 2253	0.1	124
20240201 2303	0.1	201
20240201 2313	0.1	287
20240201 2323	0.1	101
20240201 2333	0.1	51
20240201 2343	0.1	144
20240201 2353	0.1	259

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240202 0003	0.2	155
20240202 0013	0.1	241
20240202 0023	0.1	119
20240202 0033	0.1	32
20240202 0043	0.1	156
20240202 0053	0.1	147
20240202 0103	0.1	296
20240202 0113	0.1	104
20240202 0123	0.1	58
20240202 0133	0.1	264
20240202 0143	0.1	158
20240202 0153	0.1	69
20240202 0203	0.1	128
20240202 0213	0.1	20
20240202 0223	0.1	58
20240202 0233	0.1	346
20240202 0243	0.1	147
20240202 0253	0.1	109
20240202 0303	0.1	221
20240202 0313	0.1	142
20240202 0323	0.1	272
20240202 0333	0.1	149
20240202 0343	0.1	112
20240202 0353	0.1	280
20240202 0403	0.1	109
20240202 0413	0.1	12
20240202 0423	0.1	130
20240202 0433	0.1	139
20240202 0443	0.1	85
20240202 0453	0.1	32
20240202 0503	0.1	33
20240202 0513	0.1	311
20240202 0523	0.1	311
20240202 0533	0.1	148
20240202 0543	0.1	148
20240202 0553	0.1	47
20240202 0603	0.1	332
20240202 0613	0.1	75
20240202 0623	0.1	75
20240202 0633	0.1	339
20240202 0643	0.1	340
20240202 0653	0.1	18
20240202 0703	0.1	18
20240202 0713	0.1	254
20240202 0723	0.1	198
20240202 0733	0.1	182
20240202 0743	0.1	164
20240202 0753	0.1	163
20240202 0803	0.1	135
20240202 0813	0.1	147
20240202 0823	0.1	138
20240202 0833	0.1	146
20240202 0843	0.1	112
20240202 0853	0.1	100
20240202 0903	0.2	95
20240202 0913	0.1	305
20240202 0923	0.1	348
20240202 0933	0.2	56
20240202 0943	0.2	114
20240202 0953	1.4	259
20240202 1003	0.3	132
20240202 1013	0.1	84
20240202 1023	0.5	15
20240202 1033	0.1	136
20240202 1043	2.7	75
20240202 1053	0.1	127
20240202 1103	0.1	83
20240202 1113	1.8	126
20240202 1123	2	92
20240202 1133	1.8	318
20240202 1143	0.7	25
20240202 1153	0.1	12

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240202 1203	0.1	196
20240202 1213	0.2	284
20240202 1223	0.1	42
20240202 1233	0.1	348
20240202 1243	2.8	148
20240202 1253	0.1	320
20240202 1303	0.1	346
20240202 1313	1.2	284
20240202 1323	2.6	18
20240202 1333	0.6	354
20240202 1343	0.9	254
20240202 1353	0.1	59
20240202 1403	0.2	173
20240202 1413	0.7	97
20240202 1423	0.7	63
20240202 1433	0.2	17
20240202 1443	0.7	283
20240202 1453	5.7	17
20240202 1503	4.4	18
20240202 1513	2	64
20240202 1523	0.9	341
20240202 1533	0.4	21
20240202 1543	0.1	86
20240202 1553	1.7	65
20240202 1603	0.3	63
20240202 1613	0.1	172
20240202 1623	0.8	7
20240202 1633	0.9	267
20240202 1643	0.2	129
20240202 1653	0.7	12
20240202 1703	1.5	141
20240202 1713	0.2	350
20240202 1723	0.5	274
20240202 1733	3.8	78
20240202 1743	2.1	160
20240202 1753	2	12
20240202 1803	0.1	93
20240202 1813	0.2	70
20240202 1823	0.8	114
20240202 1833	1.9	333
20240202 1843	0.3	40
20240202 1853	0.4	77
20240202 1903	0.1	61
20240202 1913	0.3	245
20240202 1923	1.2	50
20240202 1933	0.2	79
20240202 1943	0.5	143
20240202 1953	0.7	321
20240202 2003	0.1	286
20240202 2013	0.9	55
20240202 2023	2.1	343
20240202 2033	0.4	345
20240202 2043	0.6	62
20240202 2053	1.3	45
20240202 2103	0.1	347
20240202 2113	3.8	132
20240202 2123	0.1	71
20240202 2133	0.3	147
20240202 2143	2.6	32
20240202 2153	2.5	346
20240202 2203	3.9	140
20240202 2213	0.5	337
20240202 2223	1.1	310
20240202 2233	0.7	30
20240202 2243	1.6	161
20240202 2253	0.1	342
20240202 2303	1.8	106
20240202 2313	3.4	149
20240202 2323	1.2	25
20240202 2333	1	13
20240202 2343	0.8	342
20240202 2353	0.3	94

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240203 0003	0.2	318
20240203 0013	0.1	131
20240203 0023	1.5	32
20240203 0033	0.1	333
20240203 0043	0.1	294
20240203 0053	0.6	55
20240203 0103	0.4	319
20240203 0113	0.7	58
20240203 0123	1	307
20240203 0133	0.1	125
20240203 0143	0.1	91
20240203 0153	0.1	140
20240203 0203	0.3	102
20240203 0213	4.4	171
20240203 0223	0.1	64
20240203 0233	0.1	344
20240203 0243	0.1	169
20240203 0253	0.3	351
20240203 0303	0.6	84
20240203 0313	0.1	168
20240203 0323	4.4	153
20240203 0333	1.6	287
20240203 0343	0.1	164
20240203 0353	0.1	50
20240203 0403	0.1	121
20240203 0413	0.2	28
20240203 0423	0.1	121
20240203 0433	0.1	149
20240203 0443	0.1	289
20240203 0453	0.1	167
20240203 0503	0.1	185
20240203 0513	0.1	260
20240203 0523	0.2	88
20240203 0533	0.6	135
20240203 0543	0.1	115
20240203 0553	0.1	159
20240203 0603	0.1	68
20240203 0613	0.2	353
20240203 0623	0.1	163
20240203 0633	0.1	354
20240203 0643	0.4	85
20240203 0653	3.5	121
20240203 0703	0.3	119
20240203 0713	0.1	229
20240203 0723	0.5	101
20240203 0733	0.1	22
20240203 0743	0.1	316
20240203 0753	1.2	3
20240203 0803	0.7	334
20240203 0813	0.1	314
20240203 0823	0.1	34
20240203 0833	0.1	37
20240203 0843	0.1	161
20240203 0853	0.1	251
20240203 0903	0.1	203
20240203 0913	0.6	99
20240203 0923	0.2	150
20240203 0933	0.4	110
20240203 0943	0.1	236
20240203 0953	0.1	48
20240203 1003	0.1	319
20240203 1013	0.3	42
20240203 1023	0.3	29
20240203 1033	0.4	16
20240203 1043	0.2	263
20240203 1053	0.1	36
20240203 1103	0.4	141
20240203 1113	1	103
20240203 1123	0.6	124
20240203 1133	0.1	231
20240203 1143	0.5	0
20240203 1153	0.9	102

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240203 1203	0.5	144
20240203 1213	1	113
20240203 1223	0.1	78
20240203 1233	0.1	13
20240203 1243	0.1	3
20240203 1253	0.1	258
20240203 1303	0.9	87
20240203 1313	0.5	117
20240203 1323	0.4	146
20240203 1333	0.1	209
20240203 1343	0.7	21
20240203 1353	0.2	80
20240203 1403	1.3	355
20240203 1413	0.1	155
20240203 1423	5.8	158
20240203 1433	0.4	168
20240203 1443	0.4	348
20240203 1453	0.1	39
20240203 1503	1.6	27
20240203 1513	0.6	56
20240203 1523	0.1	148
20240203 1533	1.4	146
20240203 1543	0.2	73
20240203 1553	1.9	153
20240203 1603	0.4	86
20240203 1613	0.1	69
20240203 1623	0.1	258
20240203 1633	0.2	189
20240203 1643	0.9	106
20240203 1653	1.4	155
20240203 1703	0.1	161
20240203 1713	1.3	86
20240203 1723	0.1	221
20240203 1733	0.1	29
20240203 1743	0.6	94
20240203 1753	0.1	40
20240203 1803	0.5	104
20240203 1813	0.1	79
20240203 1823	0.1	165
20240203 1833	0.8	91
20240203 1843	0.2	153
20240203 1853	0.1	269
20240203 1903	0.1	108
20240203 1913	0.1	202
20240203 1923	0.4	100
20240203 1933	3.7	131
20240203 1943	0.1	220
20240203 1953	1.2	181
20240203 2003	0.7	111
20240203 2013	1.5	85
20240203 2023	0.1	89
20240203 2033	0.2	176
20240203 2043	0.2	93
20240203 2053	0.1	347
20240203 2103	0.2	156
20240203 2113	0.1	211
20240203 2123	0.1	179
20240203 2133	0.2	89
20240203 2143	0.4	105
20240203 2153	0.1	317
20240203 2203	0.1	235
20240203 2213	1.2	112
20240203 2223	0.2	137
20240203 2233	0.1	106
20240203 2243	0.3	135
20240203 2253	0.2	48
20240203 2303	0.4	172
20240203 2313	0.1	65
20240203 2323	0.1	118
20240203 2333	0.1	165
20240203 2343	0.1	126
20240203 2353	0.1	340

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240204 0003	0.1	291
20240204 0013	0.1	4
20240204 0023	0.5	113
20240204 0033	0.1	56
20240204 0043	1.4	337
20240204 0053	0.1	128
20240204 0103	0.6	53
20240204 0113	1.9	100
20240204 0123	0.1	29
20240204 0133	0.1	221
20240204 0143	0.1	275
20240204 0153	0.1	63
20240204 0203	0.6	120
20240204 0213	0.1	138
20240204 0223	0.3	138
20240204 0233	0.3	339
20240204 0243	0.1	353
20240204 0253	0.1	140
20240204 0303	0.1	130
20240204 0313	0.1	182
20240204 0323	0.1	137
20240204 0333	0.1	18
20240204 0343	0.1	189
20240204 0353	0.1	138
20240204 0403	0.1	64
20240204 0413	0.1	167
20240204 0423	0.1	127
20240204 0433	0.1	143
20240204 0443	0.1	155
20240204 0453	0.1	304
20240204 0503	0.1	40
20240204 0513	0.2	105
20240204 0523	2.9	110
20240204 0533	1.5	110
20240204 0543	0.3	318
20240204 0553	1.5	80
20240204 0603	0.8	41
20240204 0613	0.2	14
20240204 0623	0.1	344
20240204 0633	1.5	340
20240204 0643	0.4	83
20240204 0653	0.1	46
20240204 0703	0.6	21
20240204 0713	0.2	23
20240204 0723	0.6	18
20240204 0733	1.3	354
20240204 0743	2.4	333
20240204 0753	0.5	178
20240204 0803	0.1	331
20240204 0813	0.4	350
20240204 0823	0.3	339
20240204 0833	0.2	98
20240204 0843	4	35
20240204 0853	0.1	59
20240204 0903	0.1	274
20240204 0913	1	121
20240204 0923	0.2	15
20240204 0933	0.1	144
20240204 0943	0.1	172
20240204 0953	1.8	12
20240204 1003	0.1	27
20240204 1013	0.2	111
20240204 1023	0.1	19
20240204 1033	0.8	353
20240204 1043	0.4	18
20240204 1053	0.1	352
20240204 1103	0.4	137
20240204 1113	0.2	336
20240204 1123	0.5	339
20240204 1133	0.1	2
20240204 1143	0.2	132
20240204 1153	0.3	54

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240204 1203	0.4	138
20240204 1213	1.8	55
20240204 1223	0.2	164
20240204 1233	0.7	141
20240204 1243	0.1	326
20240204 1253	5	176
20240204 1303	0.1	260
20240204 1313	0.8	153
20240204 1323	0.1	72
20240204 1333	0.5	145
20240204 1343	0.7	135
20240204 1353	0.1	33
20240204 1403	0.7	132
20240204 1413	0.1	355
20240204 1423	0.3	66
20240204 1433	0.1	49
20240204 1443	0.8	271
20240204 1453	0.2	49
20240204 1503	5	90
20240204 1513	0.3	104
20240204 1523	0.6	142
20240204 1533	0.5	83
20240204 1543	0.1	312
20240204 1553	0.6	327
20240204 1603	1.7	135
20240204 1613	1.6	146
20240204 1623	0.9	166
20240204 1633	0.6	136
20240204 1643	0.1	79
20240204 1653	0.6	181
20240204 1703	0.3	120
20240204 1713	1	139
20240204 1723	1.2	98
20240204 1733	0.1	327
20240204 1743	0.2	223
20240204 1753	1.4	117
20240204 1803	0.1	341
20240204 1813	0.1	171
20240204 1823	0.1	118
20240204 1833	0.1	148
20240204 1843	0.1	13
20240204 1853	1.1	120
20240204 1903	0.6	112
20240204 1913	0.1	213
20240204 1923	0.1	102
20240204 1933	0.1	217
20240204 1943	0.4	114
20240204 1953	0.1	311
20240204 2003	0.5	49
20240204 2013	0.1	67
20240204 2023	0.5	93
20240204 2033	0.1	155
20240204 2043	0.1	80
20240204 2053	0.3	98
20240204 2103	0.4	84
20240204 2113	3.1	113
20240204 2123	1.1	306
20240204 2133	0.1	52
20240204 2143	0.1	184
20240204 2153	0.1	120
20240204 2203	0.1	180
20240204 2213	0.1	258
20240204 2223	0.1	129
20240204 2233	0.1	305
20240204 2243	0.1	108
20240204 2253	0.1	261
20240204 2303	1.1	114
20240204 2313	0.1	104
20240204 2323	0.1	138
20240204 2333	0.1	336
20240204 2343	0.1	171
20240204 2353	0.1	123

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240205 0003	0.1	76
20240205 0013	0.1	108
20240205 0023	0.1	108
20240205 0033	0.1	290
20240205 0043	0.1	290
20240205 0053	0.1	49
20240205 0103	0.1	346
20240205 0113	0.1	346
20240205 0123	0.1	334
20240205 0133	0.1	297
20240205 0143	0.1	248
20240205 0153	0.1	247
20240205 0203	0.1	122
20240205 0213	0.1	122
20240205 0223	0.1	36
20240205 0233	0.1	36
20240205 0243	0.1	345
20240205 0253	0.1	291
20240205 0303	0.1	332
20240205 0313	0.1	23
20240205 0323	0.1	0
20240205 0333	0.1	16
20240205 0343	0.1	25
20240205 0353	0.1	191
20240205 0403	0.1	143
20240205 0413	0.1	192
20240205 0423	0.1	111
20240205 0433	0.1	45
20240205 0443	0.1	102
20240205 0453	0.1	21
20240205 0503	0.1	48
20240205 0513	0.1	93
20240205 0523	0.2	121
20240205 0533	0.1	82
20240205 0543	0.1	135
20240205 0553	0.1	103
20240205 0603	0.1	15
20240205 0613	0.1	14
20240205 0623	0.1	123
20240205 0633	0.1	165
20240205 0643	0.1	292
20240205 0653	0.1	129
20240205 0703	0.1	153
20240205 0713	0.1	151
20240205 0723	0.1	132
20240205 0733	0.1	92
20240205 0743	0.1	304
20240205 0753	0.1	326
20240205 0803	0.1	131
20240205 0813	0.1	249
20240205 0823	0.1	292
20240205 0833	0.1	130
20240205 0843	0.1	232
20240205 0853	0.1	326
20240205 0903	0.1	243
20240205 0913	0.2	147
20240205 0923	0.1	208
20240205 0933	6.8	138
20240205 0943	3	148
20240205 0953	0.8	96
20240205 1003	0.1	199
20240205 1013	0.3	58
20240205 1023	1.2	104
20240205 1033	0.1	131
20240205 1043	0.1	150
20240205 1053	1.2	15
20240205 1103	0.1	38
20240205 1113	0.2	51
20240205 1123	0.1	293
20240205 1133	0.1	341
20240205 1143	0.1	86
20240205 1153	0.1	314

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240205 1203	0.1	162
20240205 1213	0.1	215
20240205 1223	0.1	119
20240205 1233	0.1	206
20240205 1243	0.6	83
20240205 1253	0.2	93
20240205 1303	0.1	170
20240205 1313	0.3	256
20240205 1323	0.1	291
20240205 1333	0.1	255
20240205 1343	0.1	134
20240205 1353	0.1	233
20240205 1403	0.1	160
20240205 1413	0.1	43
20240205 1423	0.3	319
20240205 1433	0.1	56
20240205 1443	0.1	76
20240205 1453	1.2	21
20240205 1503	0.6	20
20240205 1513	1.6	59
20240205 1523	2.8	110
20240205 1533	0.5	115
20240205 1543	0.2	340
20240205 1553	0.1	24
20240205 1603	0.2	337
20240205 1613	0.1	10
20240205 1623	0.1	187
20240205 1633	0.1	83
20240205 1643	2.7	88
20240205 1653	0.4	121
20240205 1703	0.5	35
20240205 1713	0.1	74
20240205 1723	0.9	350
20240205 1733	1.2	54
20240205 1743	0.1	259
20240205 1753	0.1	12
20240205 1803	0.1	314
20240205 1813	0.8	115
20240205 1823	3.9	338
20240205 1833	0.8	47
20240205 1843	1.1	330
20240205 1853	2.9	303
20240205 1903	1.4	2
20240205 1913	0.3	117
20240205 1923	0.6	42
20240205 1933	0.1	339
20240205 1943	0.1	37
20240205 1953	1.1	30
20240205 2003	0.2	189
20240205 2013	0.1	97
20240205 2023	0.1	316
20240205 2033	0.1	17
20240205 2043	0.1	301
20240205 2053	0.4	306
20240205 2103	0.1	294
20240205 2113	0.2	21
20240205 2123	0.1	342
20240205 2133	0.1	249
20240205 2143	0.2	29
20240205 2153	0.8	65
20240205 2203	0.1	111
20240205 2213	0.1	339
20240205 2223	1.1	307
20240205 2233	1	45
20240205 2243	0.2	103
20240205 2253	0.2	333
20240205 2303	0.2	228
20240205 2313	1.3	156
20240205 2323	0.1	49
20240205 2333	0.1	350
20240205 2343	1	332
20240205 2353	2.5	106

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240206 0003	1.3	36
20240206 0013	0.1	169
20240206 0023	0.2	29
20240206 0033	0.9	121
20240206 0043	0.1	136
20240206 0053	0.1	43
20240206 0103	0.9	169
20240206 0113	1.1	140
20240206 0123	3.4	44
20240206 0133	0.2	284
20240206 0143	0.1	57
20240206 0153	0.2	28
20240206 0203	0.2	325
20240206 0213	0.6	329
20240206 0223	0.2	14
20240206 0233	0.2	260
20240206 0243	0.1	288
20240206 0253	1.7	11
20240206 0303	1.8	10
20240206 0313	0.2	1
20240206 0323	3.8	336
20240206 0333	0.5	308
20240206 0343	0.6	343
20240206 0353	0.2	332
20240206 0403	0.1	122
20240206 0413	0.8	350
20240206 0423	0.7	50
20240206 0433	0.2	335
20240206 0443	0.1	225
20240206 0453	3.7	14
20240206 0503	1.6	334
20240206 0513	3.9	351
20240206 0523	0.7	326
20240206 0533	0.1	144
20240206 0543	0.1	243
20240206 0553	0.1	10
20240206 0603	0.1	133
20240206 0613	0.1	156
20240206 0623	0.1	118
20240206 0633	2.3	31
20240206 0643	0.3	67
20240206 0653	0.1	92
20240206 0703	1	330
20240206 0713	4.4	14
20240206 0723	0.2	70
20240206 0733	2.4	101
20240206 0743	1.2	11
20240206 0753	0.2	329
20240206 0803	6.1	145
20240206 0813	0.2	224
20240206 0823	2.3	120
20240206 0833	0.5	268
20240206 0843	0.8	50
20240206 0853	2.1	135
20240206 0903	0.1	298
20240206 0913	1.6	25
20240206 0923	0.6	78
20240206 0933	4	114
20240206 0943	0.1	127
20240206 0953	2.7	208
20240206 1003	0.1	300
20240206 1013	0.1	101
20240206 1023	0.5	238
20240206 1033	0.1	178
20240206 1043	0.2	351
20240206 1053	0.2	150
20240206 1103	0.8	143
20240206 1113	0.9	164
20240206 1123	0.1	132
20240206 1133	0.1	154
20240206 1143	0.9	45
20240206 1153	3.3	147

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240206 1203	0.4	4
20240206 1213	0.1	153
20240206 1223	0.6	353
20240206 1233	2.1	117
20240206 1243	0.6	302
20240206 1253	0.1	271
20240206 1303	1.6	329
20240206 1313	3.2	41
20240206 1323	1.1	41
20240206 1333	0.6	63
20240206 1343	0.1	353
20240206 1353	3.8	354
20240206 1403	0.8	317
20240206 1413	1.4	292
20240206 1423	0.4	31
20240206 1433	1.8	311
20240206 1443	2.3	26
20240206 1453	1.2	322
20240206 1503	2.2	304
20240206 1513	0.7	322
20240206 1523	1.2	245
20240206 1533	2.5	341
20240206 1543	2.4	329
20240206 1553	4.7	344
20240206 1603	2.1	337
20240206 1613	0.2	44
20240206 1623	0.2	279
20240206 1633	1.5	338
20240206 1643	0.4	59
20240206 1653	0.3	107
20240206 1703	1.3	346
20240206 1713	0.9	143
20240206 1723	3.2	116
20240206 1733	0.1	99
20240206 1743	0.6	243
20240206 1753	0.1	135
20240206 1803	0.1	142
20240206 1813	0.1	91
20240206 1823	0.2	44
20240206 1833	0.3	11
20240206 1843	0.1	127
20240206 1853	0.1	156
20240206 1903	0.1	183
20240206 1913	1.2	337
20240206 1923	2.1	348
20240206 1933	0.1	337
20240206 1943	0.1	78
20240206 1953	0.4	61
20240206 2003	0.2	311
20240206 2013	0.1	263
20240206 2023	0.1	299
20240206 2033	0.1	161
20240206 2043	0.1	129
20240206 2053	0.1	109
20240206 2103	0.1	145
20240206 2113	0.1	85
20240206 2123	0.1	306
20240206 2133	0.1	108
20240206 2143	0.2	150
20240206 2153	0.1	162
20240206 2203	0.2	123
20240206 2213	0.1	158
20240206 2223	0.1	141
20240206 2233	0.2	140
20240206 2243	0.2	329
20240206 2253	0.1	35
20240206 2303	0.2	158
20240206 2313	0.1	38
20240206 2323	0.1	102
20240206 2333	0.1	269
20240206 2343	0.1	312
20240206 2353	0.1	74

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240207 0003	0.1	19
20240207 0013	0.2	353
20240207 0023	0.4	20
20240207 0033	0.2	48
20240207 0043	0.1	32
20240207 0053	0.1	167
20240207 0103	1	44
20240207 0113	0.1	52
20240207 0123	0.1	104
20240207 0133	0.1	134
20240207 0143	0.1	35
20240207 0153	0.1	0
20240207 0203	0.1	209
20240207 0213	0.1	316
20240207 0223	0.1	126
20240207 0233	0.1	130
20240207 0243	0.2	111
20240207 0253	0.2	15
20240207 0303	0.1	18
20240207 0313	0.7	318
20240207 0323	0.1	28
20240207 0333	0.1	173
20240207 0343	0.2	163
20240207 0353	0.3	118
20240207 0403	0.1	247
20240207 0413	0.6	141
20240207 0423	0.1	145
20240207 0433	0.1	282
20240207 0443	0.1	70
20240207 0453	0.1	129
20240207 0503	0.1	186
20240207 0513	0.1	154
20240207 0523	0.1	277
20240207 0533	0.1	292
20240207 0543	0.1	242
20240207 0553	0.1	327
20240207 0603	0.1	329
20240207 0613	0.1	276
20240207 0623	0.3	141
20240207 0633	0.1	146
20240207 0643	0.1	353
20240207 0653	0.1	119
20240207 0703	0.1	285
20240207 0713	0.1	312
20240207 0723	0.1	144
20240207 0733	0.1	98
20240207 0743	0.1	155
20240207 0753	0.1	146
20240207 0803	0.1	290
20240207 0813	0.1	121
20240207 0823	0.8	116
20240207 0833	0.2	353
20240207 0843	0.5	338
20240207 0853	0.1	323
20240207 0903	0.1	84
20240207 0913	0.1	49
20240207 0923	0.1	111
20240207 0933	0.1	167
20240207 0943	0.1	126
20240207 0953	0.1	227
20240207 1003	0.1	222
20240207 1013	0.1	167
20240207 1023	0.1	161
20240207 1033	0.1	153
20240207 1043	0.1	277
20240207 1053	0.1	195
20240207 1103	0.1	277
20240207 1113	0.1	317
20240207 1123	0.3	306
20240207 1133	0.1	126
20240207 1143	0.1	228
20240207 1153	0.1	53

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240207 1203	0.1	9
20240207 1213	0.4	146
20240207 1223	0.1	52
20240207 1233	0.1	182
20240207 1243	0.2	260
20240207 1253	0.1	141
20240207 1303	0.8	133
20240207 1313	0.1	158
20240207 1323	0.1	134
20240207 1333	0.2	142
20240207 1343	0.9	72
20240207 1353	0.1	137
20240207 1403	0.1	86
20240207 1413	0.5	128
20240207 1423	0.3	66
20240207 1433	0.2	130
20240207 1443	0.5	247
20240207 1453	0.1	0
20240207 1503	1	161
20240207 1513	0.1	251
20240207 1523	0.2	141
20240207 1533	0.2	144
20240207 1543	0.1	162
20240207 1553	0.1	130
20240207 1603	0.1	143
20240207 1613	0.1	176
20240207 1623	0.1	119
20240207 1633	0.1	113
20240207 1643	0.1	163
20240207 1653	0.1	272
20240207 1703	0.1	289
20240207 1713	0.1	187
20240207 1723	0.1	133
20240207 1733	0.1	129
20240207 1743	0.1	229
20240207 1753	0.1	303
20240207 1803	0.1	157
20240207 1813	0.1	140
20240207 1823	0.1	198
20240207 1833	0.1	132
20240207 1843	0.1	143
20240207 1853	0.3	127
20240207 1903	0.1	121
20240207 1913	0.1	153
20240207 1923	0.1	203
20240207 1933	0.1	131
20240207 1943	0.1	63
20240207 1953	0.1	163
20240207 2003	0.1	73
20240207 2013	0.1	269
20240207 2023	0.1	304
20240207 2033	0.3	294
20240207 2043	0.1	331
20240207 2053	0.1	102
20240207 2103	0.1	309
20240207 2113	0.1	255
20240207 2123	0.1	137
20240207 2133	0.1	137
20240207 2143	0.1	258
20240207 2153	0.1	188
20240207 2203	0.1	308
20240207 2213	0.1	178
20240207 2223	0.1	138
20240207 2233	0.1	273
20240207 2243	0.9	20
20240207 2253	0.1	131
20240207 2303	0.1	35
20240207 2313	0.1	276
20240207 2323	0.1	169
20240207 2333	0.1	34
20240207 2343	0.1	328
20240207 2353	0.1	39

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240208 0003	0.1	266
20240208 0013	0.1	333
20240208 0023	0.2	274
20240208 0033	0.2	147
20240208 0043	0.1	103
20240208 0053	0.1	246
20240208 0103	0.1	84
20240208 0113	0.1	149
20240208 0123	0.1	106
20240208 0133	0.1	123
20240208 0143	0.1	259
20240208 0153	0.1	275
20240208 0203	0.1	308
20240208 0213	0.1	286
20240208 0223	0.1	252
20240208 0233	0.1	221
20240208 0243	0.1	121
20240208 0253	0.1	126
20240208 0303	0.1	74
20240208 0313	0.1	134
20240208 0323	0.1	271
20240208 0333	0.1	281
20240208 0343	0.1	138
20240208 0353	0.1	244
20240208 0403	0.1	185
20240208 0413	0.1	205
20240208 0423	0.1	129
20240208 0433	0.1	162
20240208 0443	0.1	314
20240208 0453	0.1	102
20240208 0503	0.3	89
20240208 0513	0.1	314
20240208 0523	0.1	156
20240208 0533	0.1	252
20240208 0543	0.1	146
20240208 0553	0.1	246
20240208 0603	0.1	325
20240208 0613	0.1	168
20240208 0623	0.1	311
20240208 0633	0.1	241
20240208 0643	0.1	147
20240208 0653	0.1	234
20240208 0703	0.1	106
20240208 0713	0.1	276
20240208 0723	0.1	109
20240208 0733	0.1	56
20240208 0743	0.1	110
20240208 0753	0.1	139
20240208 0803	0.1	147
20240208 0813	0.1	91
20240208 0823	0.1	140
20240208 0833	0.1	134
20240208 0843	0.1	122
20240208 0853	0.1	144
20240208 0903	0.1	133
20240208 0913	0.1	140
20240208 0923	0.1	242
20240208 0933	0.1	152
20240208 0943	0.1	127
20240208 0953	0.1	120
20240208 1003	0.1	145
20240208 1013	0.1	147
20240208 1023	0.1	243
20240208 1033	0.1	176
20240208 1043	0.1	141
20240208 1053	0.1	146
20240208 1103	0.1	292
20240208 1113	0.1	117
20240208 1123	0.1	107
20240208 1133	0.1	224
20240208 1143	0.1	247
20240208 1153	0.1	26

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240208 1203	0.1	142
20240208 1213	0.1	117
20240208 1223	0.1	102
20240208 1233	0.2	328
20240208 1243	0.1	172
20240208 1253	0.1	265
20240208 1303	0.3	316
20240208 1313	0.1	199
20240208 1323	0.1	212
20240208 1333	0.5	68
20240208 1343	0.1	329
20240208 1353	0.1	26
20240208 1403	0.1	328
20240208 1413	0.1	302
20240208 1423	0.1	123
20240208 1433	0.1	110
20240208 1443	0.1	49
20240208 1453	0.1	350
20240208 1503	0.1	69
20240208 1513	0.2	26
20240208 1523	0.1	339
20240208 1533	0.6	334
20240208 1543	0.1	340
20240208 1553	1	31
20240208 1603	0.1	282
20240208 1613	0.1	133
20240208 1623	0.1	1
20240208 1633	0.1	10
20240208 1643	0.1	349
20240208 1653	0.1	336
20240208 1703	0.1	257
20240208 1713	0.1	232
20240208 1723	0.1	334
20240208 1733	0.1	267
20240208 1743	0.1	15
20240208 1753	1.5	286
20240208 1803	0.1	79
20240208 1813	0.1	259
20240208 1823	0.1	60
20240208 1833	0.1	200
20240208 1843	0.1	312
20240208 1853	0.1	235
20240208 1903	0.1	112
20240208 1913	0.1	250
20240208 1923	0.1	234
20240208 1933	0.1	189
20240208 1943	0.1	150
20240208 1953	0.1	2
20240208 2003	0.1	139
20240208 2013	0.1	148
20240208 2023	0.1	204
20240208 2033	0.1	139
20240208 2043	0.1	349
20240208 2053	0.1	48
20240208 2103	0.7	301
20240208 2113	0.1	60
20240208 2123	0.6	4
20240208 2133	0.2	311
20240208 2143	0.1	289
20240208 2153	5.1	10
20240208 2203	0.1	51
20240208 2213	0.1	314
20240208 2223	0.1	165
20240208 2233	0.1	178
20240208 2243	0.1	127
20240208 2253	0.1	282
20240208 2303	0.1	14
20240208 2313	0.1	279
20240208 2323	0.1	253
20240208 2333	0.1	141
20240208 2343	0.1	131
20240208 2353	0.1	185

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240209 0003	0.1	121
20240209 0013	0.1	182
20240209 0023	0.1	34
20240209 0033	0.1	17
20240209 0043	0.1	101
20240209 0053	0.1	244
20240209 0103	0.1	147
20240209 0113	0.1	66
20240209 0123	0.1	123
20240209 0133	0.1	338
20240209 0143	0.1	114
20240209 0153	0.1	245
20240209 0203	0.1	250
20240209 0213	0.1	148
20240209 0223	0.1	134
20240209 0233	0.1	246
20240209 0243	0.1	143
20240209 0253	0.1	294
20240209 0303	0.1	144
20240209 0313	0.1	11
20240209 0323	0.1	296
20240209 0333	0.1	136
20240209 0343	0.1	163
20240209 0353	0.1	255
20240209 0403	0.1	154
20240209 0413	0.1	124
20240209 0423	0.1	264
20240209 0433	0.1	257
20240209 0443	0.1	121
20240209 0453	0.1	173
20240209 0503	0.1	273
20240209 0513	0.1	138
20240209 0523	0.1	282
20240209 0533	0.1	220
20240209 0543	0.1	257
20240209 0553	0.1	339
20240209 0603	0.1	121
20240209 0613	0.1	271
20240209 0623	0.1	150
20240209 0633	0.1	238
20240209 0643	0.1	277
20240209 0653	0.1	275
20240209 0703	0.1	303
20240209 0713	0.1	303
20240209 0723	0.1	256
20240209 0733	0.1	148
20240209 0743	0.1	254
20240209 0753	0.1	234
20240209 0803	0.1	239
20240209 0813	0.1	242
20240209 0823	0.1	209
20240209 0833	0.1	99
20240209 0843	0.1	240
20240209 0853	0.1	232
20240209 0903	0.1	219
20240209 0913	0.1	147
20240209 0923	0.1	167
20240209 0933	0.1	153
20240209 0943	0.1	174
20240209 0953	0.1	233
20240209 1003	0.1	160
20240209 1013	0.1	95
20240209 1023	0.1	200
20240209 1033	0.1	207
20240209 1043	0.1	231
20240209 1053	0.2	240
20240209 1103	0.1	270
20240209 1113	0.1	285
20240209 1123	0.1	135
20240209 1133	0.1	151
20240209 1143	0.1	141
20240209 1153	0.2	134

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240209 1203	0.1	291
20240209 1213	0.1	231
20240209 1223	0.2	114
20240209 1233	0.1	114
20240209 1243	0.2	129
20240209 1253	0.1	11
20240209 1303	0.1	109
20240209 1313	0.3	137
20240209 1323	0.1	150
20240209 1333	0.1	228
20240209 1343	0.2	41
20240209 1353	0.1	250
20240209 1403	0.1	346
20240209 1413	0.1	64
20240209 1423	0.3	116
20240209 1433	0.1	220
20240209 1443	1.1	37
20240209 1453	1	111
20240209 1503	0.3	127
20240209 1513	0.1	124
20240209 1523	0.1	86
20240209 1533	0.1	104
20240209 1543	0.1	60
20240209 1553	0.1	122
20240209 1603	2.8	25
20240209 1613	0.1	81
20240209 1623	0.2	51
20240209 1633	0.1	89
20240209 1643	0.5	44
20240209 1653	0.1	137
20240209 1703	0.1	140
20240209 1713	0.1	83
20240209 1723	0.1	50
20240209 1733	1.6	301
20240209 1743	0.1	54
20240209 1753	0.1	267
20240209 1803	0.1	18
20240209 1813	0.1	314
20240209 1823	0.1	85
20240209 1833	0.1	321
20240209 1843	0.1	146
20240209 1853	0.1	62
20240209 1903	0.1	24
20240209 1913	0.1	116
20240209 1923	0.1	312
20240209 1933	0.1	132
20240209 1943	0.1	241
20240209 1953	0.1	143
20240209 2003	0.1	326
20240209 2013	0.1	111
20240209 2023	0.1	183
20240209 2033	0.1	142
20240209 2043	0.1	297
20240209 2053	0.1	190
20240209 2103	0.1	256
20240209 2113	1.1	143
20240209 2123	0.1	332
20240209 2133	0.1	88
20240209 2143	0.1	279
20240209 2153	0.1	132
20240209 2203	0.1	39
20240209 2213	0.1	220
20240209 2223	0.1	304
20240209 2233	0.1	258
20240209 2243	0.1	325
20240209 2253	0.4	348
20240209 2303	0.1	288
20240209 2313	0.2	339
20240209 2323	0.1	97
20240209 2333	0.1	83
20240209 2343	0.1	336
20240209 2353	0.1	153

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240210 0003	0.1	0
20240210 0013	0.1	65
20240210 0023	0.1	148
20240210 0033	0.1	135
20240210 0043	0.1	165
20240210 0053	0.1	290
20240210 0103	0.1	126
20240210 0113	0.4	141
20240210 0123	0.9	314
20240210 0133	0.1	341
20240210 0143	0.1	302
20240210 0153	0.1	138
20240210 0203	0.1	47
20240210 0213	0.1	150
20240210 0223	0.1	285
20240210 0233	0.1	292
20240210 0243	0.3	6
20240210 0253	0.1	69
20240210 0303	0.1	192
20240210 0313	0.1	223
20240210 0323	0.2	349
20240210 0333	0.1	31
20240210 0343	0.1	276
20240210 0353	0.1	250
20240210 0403	0.1	81
20240210 0413	0.1	343
20240210 0423	0.1	104
20240210 0433	0.1	114
20240210 0443	0.1	72
20240210 0453	0.1	138
20240210 0503	0.1	243
20240210 0513	0.1	126
20240210 0523	0.1	63
20240210 0533	0.1	161
20240210 0543	0.1	132
20240210 0553	0.1	138
20240210 0603	0.1	102
20240210 0613	0.1	128
20240210 0623	0.1	115
20240210 0633	0.1	350
20240210 0643	0.1	107
20240210 0653	0.1	218
20240210 0703	0.1	147
20240210 0713	0.1	251
20240210 0723	0.1	157
20240210 0733	0.1	265
20240210 0743	0.1	163
20240210 0753	0.1	123
20240210 0803	0.1	118
20240210 0813	0.1	118
20240210 0823	0.1	84
20240210 0833	0.1	298
20240210 0843	0.1	273
20240210 0853	0.1	223
20240210 0903	0.1	42
20240210 0913	0.1	318
20240210 0923	0.1	292
20240210 0933	0.1	54
20240210 0943	0.1	42
20240210 0953	0.1	147
20240210 1003	0.1	138
20240210 1013	0.1	104
20240210 1023	0.4	348
20240210 1033	0.1	293
20240210 1043	0.1	309
20240210 1053	0.1	73
20240210 1103	0.1	307
20240210 1113	0.1	264
20240210 1123	0.1	241
20240210 1133	0.2	262
20240210 1143	0.1	147
20240210 1153	0.6	93

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240210 1203	0.3	137
20240210 1213	0.4	111
20240210 1223	0.1	239
20240210 1233	0.1	109
20240210 1243	0.1	289
20240210 1253	0.1	176
20240210 1303	0.3	244
20240210 1313	0.2	251
20240210 1323	0.1	347
20240210 1333	0.4	34
20240210 1343	1	10
20240210 1353	0.2	3
20240210 1403	0.1	308
20240210 1413	0.1	10
20240210 1423	0.1	175
20240210 1433	0.2	44
20240210 1443	0.1	60
20240210 1453	0.1	262
20240210 1503	0.1	171
20240210 1513	0.1	92
20240210 1523	0.1	118
20240210 1533	0.1	128
20240210 1543	0.1	332
20240210 1553	0.9	87
20240210 1603	0.1	97
20240210 1613	2.9	131
20240210 1623	1.1	106
20240210 1633	1.1	108
20240210 1643	0.2	64
20240210 1653	1.3	120
20240210 1703	0.1	63
20240210 1713	0.2	19
20240210 1723	0.6	165
20240210 1733	0.1	89
20240210 1743	0.1	120
20240210 1753	0.1	46
20240210 1803	0.1	192
20240210 1813	0.1	96
20240210 1823	0.1	10
20240210 1833	0.1	351
20240210 1843	0.1	350
20240210 1853	0.1	21
20240210 1903	0.1	341
20240210 1913	0.1	56
20240210 1923	0.1	311
20240210 1933	0.1	343
20240210 1943	0.1	0
20240210 1953	0.1	13
20240210 2003	0.1	15
20240210 2013	0.1	58
20240210 2023	0.1	9
20240210 2033	0.1	48
20240210 2043	0.1	8
20240210 2053	0.1	154
20240210 2103	0.1	54
20240210 2113	0.1	66
20240210 2123	0.1	60
20240210 2133	0.1	50
20240210 2143	0.1	59
20240210 2153	0.1	42
20240210 2203	0.1	9
20240210 2213	0.1	60
20240210 2223	0.1	59
20240210 2233	0.1	8
20240210 2243	0.1	9
20240210 2253	0.1	143
20240210 2303	0.1	156
20240210 2313	0.1	60
20240210 2323	0.1	96
20240210 2333	0.1	58
20240210 2343	0.1	58
20240210 2353	0.1	13

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240211 0003	0.1	74
20240211 0013	0.1	58
20240211 0023	0.1	119
20240211 0033	0.1	127
20240211 0043	0.1	68
20240211 0053	0.1	44
20240211 0103	0.1	35
20240211 0113	0.1	59
20240211 0123	0.1	55
20240211 0133	0.1	55
20240211 0143	0.1	87
20240211 0153	0.1	66
20240211 0203	0.1	94
20240211 0213	0.1	52
20240211 0223	0.1	34
20240211 0233	0.1	35
20240211 0243	0.1	31
20240211 0253	0.1	49
20240211 0303	0.1	55
20240211 0313	0.1	81
20240211 0323	0.1	59
20240211 0333	0.1	38
20240211 0343	0.1	57
20240211 0353	0.1	60
20240211 0403	0.1	46
20240211 0413	0.1	107
20240211 0423	0.1	40
20240211 0433	0.1	30
20240211 0443	0.1	63
20240211 0453	0.1	2
20240211 0503	0.1	22
20240211 0513	0.1	110
20240211 0523	0.1	55
20240211 0533	0.1	55
20240211 0543	0.1	67
20240211 0553	0.1	67
20240211 0603	0.1	95
20240211 0613	0.1	72
20240211 0623	0.1	23
20240211 0633	0.1	103
20240211 0643	0.1	97
20240211 0653	0.1	186
20240211 0703	0.1	172
20240211 0713	0.1	41
20240211 0723	0.1	35
20240211 0733	0.1	53
20240211 0743	0.1	60
20240211 0753	0.1	60
20240211 0803	0.1	84
20240211 0813	0.1	110
20240211 0823	0.1	134
20240211 0833	0.1	124
20240211 0843	0.1	106
20240211 0853	0.1	93
20240211 0903	0.1	136
20240211 0913	0.1	133
20240211 0923	0.1	175
20240211 0933	0.1	168
20240211 0943	0.1	52
20240211 0953	0.1	130
20240211 1003	0.4	147
20240211 1013	0.1	155
20240211 1023	0.1	81
20240211 1033	0.1	148
20240211 1043	0.1	101
20240211 1053	0.1	333
20240211 1103	0.1	131
20240211 1113	0.1	100
20240211 1123	2.1	141
20240211 1133	0.8	39
20240211 1143	2.1	317
20240211 1153	1.2	47

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240211 1203	3.2	306
20240211 1213	0.5	340
20240211 1223	1.4	85
20240211 1233	1.3	40
20240211 1243	0.1	133
20240211 1253	0.6	50
20240211 1303	0.2	273
20240211 1313	0.1	319
20240211 1323	3.2	87
20240211 1333	0.5	5
20240211 1343	0.1	268
20240211 1353	0.1	321
20240211 1403	0.2	107
20240211 1413	0.1	149
20240211 1423	1.7	96
20240211 1433	0.1	38
20240211 1443	2.1	343
20240211 1453	1.3	96
20240211 1503	1.1	23
20240211 1513	1	101
20240211 1523	1.8	8
20240211 1533	1.9	76
20240211 1543	1.3	58
20240211 1553	0.9	26
20240211 1603	0.5	26
20240211 1613	0.7	344
20240211 1623	0.3	344
20240211 1633	0.2	34
20240211 1643	3.4	74
20240211 1653	0.2	111
20240211 1703	0.1	246
20240211 1713	0.9	63
20240211 1723	1.1	36
20240211 1733	0.2	27
20240211 1743	1.7	63
20240211 1753	0.3	48
20240211 1803	0.2	23
20240211 1813	0.1	281
20240211 1823	0.4	65
20240211 1833	0.1	310
20240211 1843	0.1	201
20240211 1853	0.2	240
20240211 1903	0.1	260
20240211 1913	0.3	276
20240211 1923	0.4	275
20240211 1933	0.3	212
20240211 1943	0.2	100
20240211 1953	0.3	201
20240211 2003	0.1	251
20240211 2013	0.1	240
20240211 2023	0.4	292
20240211 2033	0.2	272
20240211 2043	0.1	96
20240211 2053	0.1	346
20240211 2103	0.1	84
20240211 2113	0.1	162
20240211 2123	0.2	329
20240211 2133	0.1	322
20240211 2143	0.2	335
20240211 2153	0.1	39
20240211 2203	0.5	328
20240211 2213	0.2	50
20240211 2223	0.1	266
20240211 2233	0.1	111
20240211 2243	0.1	219
20240211 2253	0.1	96
20240211 2303	0.1	56
20240211 2313	0.8	96
20240211 2323	0.2	136
20240211 2333	0.4	126
20240211 2343	0.1	124
20240211 2353	0.8	123

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240212 0003	1.5	121
20240212 0013	0.7	142
20240212 0023	0.2	124
20240212 0033	0.1	110
20240212 0043	0.1	116
20240212 0053	0.1	120
20240212 0103	0.4	65
20240212 0113	0.1	64
20240212 0123	0.1	160
20240212 0133	0.3	149
20240212 0143	0.4	121
20240212 0153	0.6	137
20240212 0203	0.1	246
20240212 0213	0.1	215
20240212 0223	0.1	235
20240212 0233	0.1	217
20240212 0243	0.1	70
20240212 0253	0.1	132
20240212 0303	0.1	57
20240212 0313	0.1	179
20240212 0323	0.9	269
20240212 0333	0.1	113
20240212 0343	0.1	116
20240212 0353	0.1	328
20240212 0403	0.1	190
20240212 0413	0.4	129
20240212 0423	0.1	310
20240212 0433	0.3	151
20240212 0443	0.1	177
20240212 0453	0.1	256
20240212 0503	0.1	323
20240212 0513	0.8	322
20240212 0523	0.1	121
20240212 0533	0.1	20
20240212 0543	0.4	137
20240212 0553	1	334
20240212 0603	0.2	38
20240212 0613	0.4	70
20240212 0623	0.1	205
20240212 0633	0.3	64
20240212 0643	0.1	173
20240212 0653	0.1	159
20240212 0703	2.1	56
20240212 0713	0.2	53
20240212 0723	0.1	97
20240212 0733	0.1	150
20240212 0743	0.5	124
20240212 0753	0.3	347
20240212 0803	0.4	30
20240212 0813	0.8	13
20240212 0823	0.2	26
20240212 0833	1.2	52
20240212 0843	7.3	29
20240212 0853	2.2	170
20240212 0903	1.3	273
20240212 0913	0.5	45
20240212 0923	0.3	137
20240212 0933	0.5	52
20240212 0943	0.8	120
20240212 0953	3.5	349
20240212 1003	0.3	285
20240212 1013	3.7	131
20240212 1023	2	112
20240212 1033	6	39
20240212 1043	2.8	313
20240212 1053	1.3	53
20240212 1103	0.6	45
20240212 1113	0.6	24
20240212 1123	0.7	11
20240212 1133	2.2	72
20240212 1143	0.5	343
20240212 1153	1.1	323

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240212 1203	0.1	317
20240212 1213	1	60
20240212 1223	4.8	139
20240212 1233	0.1	49
20240212 1243	1.5	343
20240212 1253	1	40
20240212 1303	1	294
20240212 1313	0.1	262
20240212 1323	0.1	148
20240212 1333	1.4	356
20240212 1343	2.7	16
20240212 1353	0.1	221
20240212 1403	0.7	118
20240212 1413	1.3	164
20240212 1423	0.1	165
20240212 1433	0.1	323
20240212 1443	0.1	340
20240212 1453	0.5	19
20240212 1503	0.2	54
20240212 1513	0.2	13
20240212 1523	1.5	26
20240212 1533	0.8	37
20240212 1543	0.5	2
20240212 1553	0.1	51
20240212 1603	1.3	48
20240212 1613	1.7	129
20240212 1623	0.1	257
20240212 1633	0.1	79
20240212 1643	0.1	67
20240212 1653	0.1	185
20240212 1703	0.1	42
20240212 1713	0.1	102
20240212 1723	0.1	333
20240212 1733	0.1	319
20240212 1743	0.6	88
20240212 1753	0.2	74
20240212 1803	0.2	29
20240212 1813	0.3	114
20240212 1823	0.1	179
20240212 1833	0.2	63
20240212 1843	0.1	122
20240212 1853	0.1	109
20240212 1903	0.1	202
20240212 1913	0.8	94
20240212 1923	0.4	74
20240212 1933	1.5	158
20240212 1943	0.3	344
20240212 1953	1.4	339
20240212 2003	0.2	321
20240212 2013	0.2	346
20240212 2023	1.1	123
20240212 2033	0.6	153
20240212 2043	1.5	144
20240212 2053	0.2	114
20240212 2103	0.1	132
20240212 2113	0.1	19
20240212 2123	0.1	132
20240212 2133	0.5	179
20240212 2143	0.8	117
20240212 2153	0.5	121
20240212 2203	0.1	71
20240212 2213	0.1	252
20240212 2223	0.1	186
20240212 2233	1.4	138
20240212 2243	0.7	43
20240212 2253	0.1	69
20240212 2303	0.1	46
20240212 2313	0.2	21
20240212 2323	0.1	194
20240212 2333	0.1	89
20240212 2343	0.1	77
20240212 2353	0.1	125

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240213 0003	0.1	304
20240213 0013	0.2	339
20240213 0023	0.1	178
20240213 0033	0.1	2
20240213 0043	0.1	197
20240213 0053	0.1	330
20240213 0103	0.1	6
20240213 0113	0.1	142
20240213 0123	0.3	134
20240213 0133	0.1	128
20240213 0143	0.1	110
20240213 0153	0.1	208
20240213 0203	0.1	171
20240213 0213	0.1	12
20240213 0223	0.1	234
20240213 0233	0.2	127
20240213 0243	0.1	163
20240213 0253	0.2	147
20240213 0303	0.1	66
20240213 0313	0.1	149
20240213 0323	0.2	127
20240213 0333	0.1	138
20240213 0343	0.1	352
20240213 0353	0.2	146
20240213 0403	0.1	102
20240213 0413	0.1	2
20240213 0423	0.1	147
20240213 0433	0.2	105
20240213 0443	0.1	129
20240213 0453	0.1	141
20240213 0503	0.1	168
20240213 0513	0.1	173
20240213 0523	0.1	350
20240213 0533	0.3	154
20240213 0543	0.1	134
20240213 0553	0.1	151
20240213 0603	0.1	144
20240213 0613	0.1	92
20240213 0623	0.1	37
20240213 0633	0.1	48
20240213 0643	0.1	5
20240213 0653	0.1	231
20240213 0703	0.1	117
20240213 0713	0.1	242
20240213 0723	0.1	260
20240213 0733	0.1	112
20240213 0743	0.1	137
20240213 0753	0.1	152
20240213 0803	0.1	75
20240213 0813	0.1	130
20240213 0823	0.1	157
20240213 0833	0.1	188
20240213 0843	0.1	115
20240213 0853	0.1	44
20240213 0903	0.1	84
20240213 0913	0.1	197
20240213 0923	0.3	54
20240213 0933	0.1	307
20240213 0943	0.5	55
20240213 0953	0.4	71
20240213 1003	0.1	340
20240213 1013	0.1	58
20240213 1023	0.6	7
20240213 1033	2.4	37
20240213 1043	0.2	50
20240213 1053	0.3	331
20240213 1103	0.3	60
20240213 1113	0.5	332
20240213 1123	0.1	304
20240213 1133	0.9	8
20240213 1143	0.2	54
20240213 1153	1.7	2

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240213 1203	1.8	353
20240213 1213	1.6	343
20240213 1223	0.1	303
20240213 1233	0.1	107
20240213 1243	0.6	86
20240213 1253	0.2	41
20240213 1303	0.1	61
20240213 1313	0.2	77
20240213 1323	0.6	326
20240213 1333	3.2	321
20240213 1343	0.9	162
20240213 1353	1.3	78
20240213 1403	1.3	32
20240213 1413	0.4	49
20240213 1423	0.2	56
20240213 1433	0.6	352
20240213 1443	0.1	138
20240213 1453	0.2	47
20240213 1503	0.1	310
20240213 1513	0.1	284
20240213 1523	1.7	91
20240213 1533	1.5	50
20240213 1543	1.2	19
20240213 1553	0.1	298
20240213 1603	0.1	0
20240213 1613	0.5	39
20240213 1623	0.4	66
20240213 1633	0.3	15
20240213 1643	0.1	29
20240213 1653	0.4	41
20240213 1703	0.1	313
20240213 1713	0.1	13
20240213 1723	1.3	54
20240213 1733	0.1	325
20240213 1743	0.1	222
20240213 1753	1	139
20240213 1803	0.2	46
20240213 1813	0.1	300
20240213 1823	1	89
20240213 1833	0.3	105
20240213 1843	1.2	120
20240213 1853	0.4	115
20240213 1903	0.1	114
20240213 1913	0.1	78
20240213 1923	0.1	140
20240213 1933	0.2	136
20240213 1943	0.1	243
20240213 1953	0.1	111
20240213 2003	0.1	58
20240213 2013	0.1	129
20240213 2023	3.7	143
20240213 2033	0.1	139
20240213 2043	1.4	88
20240213 2053	0.2	90
20240213 2103	0.1	349
20240213 2113	0.9	119
20240213 2123	1.5	154
20240213 2133	0.1	20
20240213 2143	0.1	120
20240213 2153	0.1	160
20240213 2203	0.2	101
20240213 2213	0.2	51
20240213 2223	0.1	137
20240213 2233	0.1	288
20240213 2243	0.2	139
20240213 2253	0.1	148
20240213 2303	0.1	48
20240213 2313	0.1	9
20240213 2323	0.1	199
20240213 2333	0.1	94
20240213 2343	0.1	293
20240213 2353	0.1	161

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240214 0003	0.1	181
20240214 0013	0.1	62
20240214 0023	0.1	208
20240214 0033	0.1	341
20240214 0043	0.4	163
20240214 0053	0.1	233
20240214 0103	0.1	201
20240214 0113	0.1	319
20240214 0123	0.1	42
20240214 0133	0.1	71
20240214 0143	0.1	83
20240214 0153	0.1	154
20240214 0203	0.1	338
20240214 0213	0.1	225
20240214 0223	0.1	336
20240214 0233	0.1	51
20240214 0243	0.1	110
20240214 0253	0.1	281
20240214 0303	0.1	75
20240214 0313	0.1	51
20240214 0323	0.1	143
20240214 0333	0.1	34
20240214 0343	0.1	59
20240214 0353	0.1	65
20240214 0403	0.1	19
20240214 0413	0.1	33
20240214 0423	0.1	116
20240214 0433	0.1	61
20240214 0443	0.1	58
20240214 0453	0.1	64
20240214 0503	0.1	77
20240214 0513	0.1	56
20240214 0523	0.1	263
20240214 0533	0.1	79
20240214 0543	0.1	95
20240214 0553	0.1	95
20240214 0603	0.1	48
20240214 0613	0.1	32
20240214 0623	0.1	326
20240214 0633	0.1	308
20240214 0643	0.1	66
20240214 0653	0.1	88
20240214 0703	0.1	321
20240214 0713	0.1	126
20240214 0723	0.1	337
20240214 0733	0.1	351
20240214 0743	0.1	101
20240214 0753	0.1	45
20240214 0803	0.1	116
20240214 0813	0.1	94
20240214 0823	0.1	104
20240214 0833	0.1	141
20240214 0843	0.1	142
20240214 0853	0.2	141
20240214 0903	0.3	139
20240214 0913	0.2	109
20240214 0923	0.1	115
20240214 0933	0.1	139
20240214 0943	0.2	345
20240214 0953	0.1	146
20240214 1003	2.1	127
20240214 1013	0.2	347
20240214 1023	1.1	66
20240214 1033	0.5	45
20240214 1043	0.1	130
20240214 1053	0.1	312
20240214 1103	0.2	85
20240214 1113	0.1	20
20240214 1123	0.5	344
20240214 1133	0.1	126
20240214 1143	0.1	194
20240214 1153	0.1	116

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240214 1203	1.1	121
20240214 1213	1.2	10
20240214 1223	2.6	45
20240214 1233	1.7	0
20240214 1243	0.9	47
20240214 1253	1	35
20240214 1303	1.3	344
20240214 1313	0.1	83
20240214 1323	0.1	223
20240214 1333	0.1	181
20240214 1343	0.2	91
20240214 1353	0.1	116
20240214 1403	1.8	90
20240214 1413	0.2	111
20240214 1423	1.7	318
20240214 1433	1	142
20240214 1443	1.5	3
20240214 1453	0.5	36
20240214 1503	8.4	354
20240214 1513	0.4	116
20240214 1523	2.5	27
20240214 1533	0.4	325
20240214 1543	3.5	300
20240214 1553	0.2	157
20240214 1603	0.1	65
20240214 1613	0.6	326
20240214 1623	0.4	64
20240214 1633	0.5	45
20240214 1643	0.3	66
20240214 1653	0.1	4
20240214 1703	0.6	308
20240214 1713	1.7	37
20240214 1723	0.1	267
20240214 1733	0.4	41
20240214 1743	1.1	47
20240214 1753	0.1	85
20240214 1803	1.1	105
20240214 1813	0.3	141
20240214 1823	0.2	132
20240214 1833	0.1	102
20240214 1843	0.1	159
20240214 1853	0.1	103
20240214 1903	0.6	118
20240214 1913	0.3	132
20240214 1923	0.1	96
20240214 1933	0.6	131
20240214 1943	0.1	99
20240214 1953	0.1	106
20240214 2003	0.2	127
20240214 2013	0.1	117
20240214 2023	0.2	151
20240214 2033	0.7	28
20240214 2043	0.2	92
20240214 2053	0.1	104
20240214 2103	0.2	68
20240214 2113	0.1	56
20240214 2123	0.2	79
20240214 2133	1.3	84
20240214 2143	0.4	43
20240214 2153	0.6	140
20240214 2203	0.8	107
20240214 2213	0.4	69
20240214 2223	0.4	109
20240214 2233	0.7	132
20240214 2243	0.9	63
20240214 2253	0.3	100
20240214 2303	0.1	115
20240214 2313	0.1	127
20240214 2323	0.1	9
20240214 2333	0.1	129
20240214 2343	0.1	174
20240214 2353	0.5	102

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240215 0003	0.2	89
20240215 0013	0.1	151
20240215 0023	0.3	218
20240215 0033	0.1	86
20240215 0043	0.1	130
20240215 0053	0.1	269
20240215 0103	0.1	35
20240215 0113	0.1	41
20240215 0123	0.1	58
20240215 0133	0.1	70
20240215 0143	0.1	17
20240215 0153	0.1	81
20240215 0203	0.1	78
20240215 0213	0.1	188
20240215 0223	0.1	70
20240215 0233	0.1	9
20240215 0243	0.1	91
20240215 0253	0.1	271
20240215 0303	0.1	225
20240215 0313	0.1	114
20240215 0323	0.1	1
20240215 0333	0.1	274
20240215 0343	0.1	265
20240215 0353	0.1	17
20240215 0403	0.1	167
20240215 0413	0.1	146
20240215 0423	0.1	9
20240215 0433	0.1	269
20240215 0443	0.1	255
20240215 0453	0.1	287
20240215 0503	0.1	280
20240215 0513	0.1	65
20240215 0523	0.1	353
20240215 0533	0.1	120
20240215 0543	0.1	102
20240215 0553	0.1	99
20240215 0603	0.1	10
20240215 0613	0.1	160
20240215 0623	0.1	104
20240215 0633	0.1	67
20240215 0643	0.1	34
20240215 0653	0.1	67
20240215 0703	0.1	43
20240215 0713	0.1	65
20240215 0723	0.1	53
20240215 0733	0.1	184
20240215 0743	0.1	244
20240215 0753	0.1	204
20240215 0803	0.1	146
20240215 0813	0.1	136
20240215 0823	0.1	145
20240215 0833	0.1	143
20240215 0843	0.1	130
20240215 0853	0.1	130
20240215 0903	0.1	145
20240215 0913	0.1	147
20240215 0923	0.2	148
20240215 0933	0.1	161
20240215 0943	0.4	137
20240215 0953	0.1	75
20240215 1003	0.1	195
20240215 1013	1.2	225
20240215 1023	0.1	190
20240215 1033	0.3	51
20240215 1043	0.3	147
20240215 1053	0.1	304
20240215 1103	0.1	337
20240215 1113	0.1	21
20240215 1123	0.1	351
20240215 1133	0.4	258
20240215 1143	0.1	195
20240215 1153	0.1	161

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240215 1203	0.6	287
20240215 1213	0.2	39
20240215 1223	1	251
20240215 1233	1.3	141
20240215 1243	0.1	38
20240215 1253	1.9	293
20240215 1303	0.1	145
20240215 1313	0.1	237
20240215 1323	0.9	253
20240215 1333	0.1	88
20240215 1343	1.1	82
20240215 1353	0.8	256
20240215 1403	0.1	284
20240215 1413	1.1	258
20240215 1423	0.3	155
20240215 1433	0.1	25
20240215 1443	0.2	159
20240215 1453	2	56
20240215 1503	0.5	210
20240215 1513	0.1	119
20240215 1523	0.1	227
20240215 1533	1.2	150
20240215 1543	0.1	133
20240215 1553	0.1	151
20240215 1603	0.1	127
20240215 1613	1.6	140
20240215 1623	0.1	294
20240215 1633	0.1	202
20240215 1643	0.1	252
20240215 1653	0.1	194
20240215 1703	0.2	107
20240215 1713	0.1	133
20240215 1723	0.1	88
20240215 1733	0.1	241
20240215 1743	0.1	137
20240215 1753	0.1	123
20240215 1803	0.1	143
20240215 1813	0.1	100
20240215 1823	0.1	45
20240215 1833	0.1	40
20240215 1843	0.1	41
20240215 1853	0.1	55
20240215 1903	0.1	62
20240215 1913	0.1	63
20240215 1923	0.1	49
20240215 1933	0.1	27
20240215 1943	0.1	43
20240215 1953	0.1	45
20240215 2003	0.1	57
20240215 2013	0.1	55
20240215 2023	0.1	52
20240215 2033	0.1	36
20240215 2043	0.1	63
20240215 2053	0.1	299
20240215 2103	0.1	39
20240215 2113	0.1	58
20240215 2123	0.1	45
20240215 2133	0.1	38
20240215 2143	0.1	54
20240215 2153	0.1	66
20240215 2203	0.1	48
20240215 2213	0.1	59
20240215 2223	0.1	59
20240215 2233	0.1	59
20240215 2243	0.1	60
20240215 2253	0.1	60
20240215 2303	0.1	71
20240215 2313	0.1	77
20240215 2323	0.1	59
20240215 2333	0.1	56
20240215 2343	0.1	59
20240215 2353	0.1	47

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240216 0003	0.1	34
20240216 0013	0.1	47
20240216 0023	0.1	39
20240216 0033	0.1	50
20240216 0043	0.1	50
20240216 0053	0.1	60
20240216 0103	0.1	56
20240216 0113	0.1	44
20240216 0123	0.1	50
20240216 0133	0.1	56
20240216 0143	0.1	56
20240216 0153	0.1	67
20240216 0203	0.1	62
20240216 0213	0.1	54
20240216 0223	0.1	49
20240216 0233	0.1	94
20240216 0243	0.1	54
20240216 0253	0.1	65
20240216 0303	0.1	35
20240216 0313	0.1	256
20240216 0323	0.1	289
20240216 0333	0.1	282
20240216 0343	0.1	98
20240216 0353	0.1	70
20240216 0403	0.1	75
20240216 0413	0.1	0
20240216 0423	0.1	329
20240216 0433	0.1	61
20240216 0443	0.1	45
20240216 0453	0.3	142
20240216 0503	0.1	240
20240216 0513	0.1	274
20240216 0523	0.1	82
20240216 0533	0.1	227
20240216 0543	0.4	331
20240216 0553	0.2	281
20240216 0603	0.1	293
20240216 0613	0.1	21
20240216 0623	0.1	44
20240216 0633	0.1	28
20240216 0643	0.1	161
20240216 0653	0.1	129
20240216 0703	0.1	55
20240216 0713	0.1	72
20240216 0723	0.1	100
20240216 0733	0.1	36
20240216 0743	0.1	162
20240216 0753	0.1	145
20240216 0803	0.1	121
20240216 0813	0.1	118
20240216 0823	0.1	105
20240216 0833	0.1	130
20240216 0843	0.1	119
20240216 0853	0.1	115
20240216 0903	0.3	258
20240216 0913	0.5	104
20240216 0923	0.2	102
20240216 0933	0.1	354
20240216 0943	0.7	143
20240216 0953	0.1	184
20240216 1003	0.8	59
20240216 1013	0.5	24
20240216 1023	0.3	134
20240216 1033	0.3	43
20240216 1043	2	62
20240216 1053	4.7	237
20240216 1103	1.5	96
20240216 1113	0.8	349
20240216 1123	0.4	0
20240216 1133	2.4	169
20240216 1143	0.5	40
20240216 1153	0.1	201

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240216 1203	0.5	215
20240216 1213	4.1	140
20240216 1223	4.3	140
20240216 1233	1.3	129
20240216 1243	1.6	326
20240216 1253	1.2	56
20240216 1303	0.5	35
20240216 1313	0.2	106
20240216 1323	3.6	8
20240216 1333	8	157
20240216 1343	0.1	108
20240216 1353	2.5	28
20240216 1403	1.1	84
20240216 1413	2.4	349
20240216 1423	0.1	42
20240216 1433	4.4	130
20240216 1443	1.1	26
20240216 1453	2.6	79
20240216 1503	0.3	130
20240216 1513	1.4	255
20240216 1523	0.8	85
20240216 1533	1.1	284
20240216 1543	0.4	137
20240216 1553	0.1	168
20240216 1603	0.4	72
20240216 1613	2.1	161
20240216 1623	1	352
20240216 1633	1.8	11
20240216 1643	3.1	293
20240216 1653	4.7	298
20240216 1703	3.2	336
20240216 1713	0.5	29
20240216 1723	2.8	347
20240216 1733	1.3	42
20240216 1743	0.2	201
20240216 1753	0.2	24
20240216 1803	0.3	82
20240216 1813	0.5	97
20240216 1823	0.1	238
20240216 1833	1.8	154
20240216 1843	0.1	119
20240216 1853	0.1	35
20240216 1903	0.5	156
20240216 1913	0.2	291
20240216 1923	0.3	61
20240216 1933	0.1	353
20240216 1943	0.2	34
20240216 1953	1.1	312
20240216 2003	0.7	95
20240216 2013	1.7	13
20240216 2023	0.2	162
20240216 2033	0.2	84
20240216 2043	0.1	196
20240216 2053	0.8	108
20240216 2103	0.6	3
20240216 2113	2.7	40
20240216 2123	0.1	15
20240216 2133	0.9	112
20240216 2143	0.1	67
20240216 2153	1.3	6
20240216 2203	0.1	271
20240216 2213	0.4	48
20240216 2223	0.1	120
20240216 2233	0.1	318
20240216 2243	0.3	198
20240216 2253	0.1	330
20240216 2303	0.3	353
20240216 2313	0.2	290
20240216 2323	0.1	305
20240216 2333	0.1	307
20240216 2343	0.8	321
20240216 2353	0.1	20

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240217 0003	0.1	126
20240217 0013	1.3	318
20240217 0023	0.1	236
20240217 0033	0.3	19
20240217 0043	0.3	84
20240217 0053	1.1	102
20240217 0103	0.1	322
20240217 0113	0.1	7
20240217 0123	0.2	107
20240217 0133	0.1	2
20240217 0143	0.2	260
20240217 0153	0.3	344
20240217 0203	0.9	121
20240217 0213	0.1	337
20240217 0223	0.5	217
20240217 0233	5.9	95
20240217 0243	0.3	96
20240217 0253	0.1	223
20240217 0303	1.8	310
20240217 0313	0.1	158
20240217 0323	0.7	7
20240217 0333	0.6	50
20240217 0343	3.1	352
20240217 0353	0.1	285
20240217 0403	3	291
20240217 0413	1.3	149
20240217 0423	0.4	267
20240217 0433	0.2	344
20240217 0443	0.3	279
20240217 0453	0.3	255
20240217 0503	1	274
20240217 0513	0.1	299
20240217 0523	0.2	185
20240217 0533	0.1	295
20240217 0543	0.1	174
20240217 0553	0.1	277
20240217 0603	0.1	23
20240217 0613	0.1	49
20240217 0623	0.1	265
20240217 0633	0.1	327
20240217 0643	0.1	237
20240217 0653	0.1	41
20240217 0703	0.2	354
20240217 0713	0.1	33
20240217 0723	0.3	351
20240217 0733	0.8	337
20240217 0743	0.4	330
20240217 0753	0.1	305
20240217 0803	0.4	327
20240217 0813	2.1	82
20240217 0823	0.7	10
20240217 0833	0.8	64
20240217 0843	0.1	204
20240217 0853	0.1	292
20240217 0903	0.2	351
20240217 0913	0.9	0
20240217 0923	0.9	99
20240217 0933	2.2	339
20240217 0943	3	339
20240217 0953	0.3	90
20240217 1003	1.5	8
20240217 1013	0.4	41
20240217 1023	1	27
20240217 1033	1.4	132
20240217 1043	3.3	115
20240217 1053	0.1	109
20240217 1103	0.7	354
20240217 1113	0.9	94
20240217 1123	1.5	284
20240217 1133	0.5	29
20240217 1143	0.3	158
20240217 1153	0.1	107

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240217 1203	1.1	343
20240217 1213	0.2	161
20240217 1223	3.2	27
20240217 1233	1.5	171
20240217 1243	2.8	151
20240217 1253	0.3	11
20240217 1303	0.1	13
20240217 1313	1.4	151
20240217 1323	2.5	165
20240217 1333	2.1	354
20240217 1343	0.3	74
20240217 1353	0.1	327
20240217 1403	0.1	109
20240217 1413	2	349
20240217 1423	0.1	40
20240217 1433	0.3	162
20240217 1443	0.7	64
20240217 1453	0.6	18
20240217 1503	0.7	25
20240217 1513	0.9	334
20240217 1523	0.1	83
20240217 1533	0.1	123
20240217 1543	0.1	264
20240217 1553	0.1	180
20240217 1603	1.1	20
20240217 1613	0.5	37
20240217 1623	0.6	182
20240217 1633	0.7	284
20240217 1643	0.2	218
20240217 1653	0.2	147
20240217 1703	0.2	134
20240217 1713	0.2	62
20240217 1723	0.1	157
20240217 1733	1.8	67
20240217 1743	1.8	347
20240217 1753	1.1	320
20240217 1803	1.2	90
20240217 1813	2.9	322
20240217 1823	0.3	323
20240217 1833	0.1	12
20240217 1843	1.4	12
20240217 1853	0.6	346
20240217 1903	0.2	60
20240217 1913	0.2	62
20240217 1923	0.2	119
20240217 1933	0.1	161
20240217 1943	0.1	204
20240217 1953	0.1	268
20240217 2003	0.1	135
20240217 2013	0.1	163
20240217 2023	0.3	327
20240217 2033	0.1	180
20240217 2043	0.1	311
20240217 2053	1.9	339
20240217 2103	0.5	136
20240217 2113	0.1	254
20240217 2123	0.1	104
20240217 2133	0.2	333
20240217 2143	0.8	296
20240217 2153	0.1	349
20240217 2203	0.2	205
20240217 2213	0.1	320
20240217 2223	1	327
20240217 2233	0.4	150
20240217 2243	0.3	107
20240217 2253	0.1	116
20240217 2303	0.1	293
20240217 2313	0.1	14
20240217 2323	0.4	62
20240217 2333	0.1	47
20240217 2343	0.4	47
20240217 2353	0.1	102

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240218 0003	0.2	41
20240218 0013	0.2	120
20240218 0023	0.1	126
20240218 0033	0.1	192
20240218 0043	0.1	337
20240218 0053	0.1	271
20240218 0103	0.1	134
20240218 0113	0.1	97
20240218 0123	0.1	207
20240218 0133	0.1	198
20240218 0143	0.1	31
20240218 0153	0.1	115
20240218 0203	0.1	22
20240218 0213	0.1	76
20240218 0223	0.1	111
20240218 0233	0.2	50
20240218 0243	0.5	122
20240218 0253	0.2	77
20240218 0303	0.2	2
20240218 0313	0.1	180
20240218 0323	0.1	86
20240218 0333	0.1	167
20240218 0343	0.1	102
20240218 0353	0.1	346
20240218 0403	0.4	270
20240218 0413	0.1	52
20240218 0423	0.1	114
20240218 0433	0.1	106
20240218 0443	0.1	17
20240218 0453	0.1	142
20240218 0503	1.2	106
20240218 0513	1.3	21
20240218 0523	0.1	271
20240218 0533	1.1	269
20240218 0543	0.1	135
20240218 0553	0.1	134
20240218 0603	0.2	323
20240218 0613	0.1	121
20240218 0623	0.2	49
20240218 0633	0.1	109
20240218 0643	0.1	125
20240218 0653	0.2	63
20240218 0703	0.2	116
20240218 0713	0.1	71
20240218 0723	0.1	59
20240218 0733	0.1	173
20240218 0743	0.1	84
20240218 0753	0.1	202
20240218 0803	1.4	119
20240218 0813	0.1	202
20240218 0823	0.1	261
20240218 0833	0.1	95
20240218 0843	0.2	312
20240218 0853	0.1	334
20240218 0903	0.1	59
20240218 0913	1	321
20240218 0923	1.3	331
20240218 0933	0.1	326
20240218 0943	0.1	324
20240218 0953	2.7	127
20240218 1003	0.9	302
20240218 1013	0.1	25
20240218 1023	1	18
20240218 1033	0.2	64
20240218 1043	0.4	351
20240218 1053	0.3	31
20240218 1103	0.8	286
20240218 1113	1.3	331
20240218 1123	0.1	235
20240218 1133	1.7	305
20240218 1143	5	312
20240218 1153	1.9	348

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240218 1203	0.6	33
20240218 1213	0.3	343
20240218 1223	0.2	237
20240218 1233	0.3	53
20240218 1243	4.3	309
20240218 1253	0.5	42
20240218 1303	2.8	301
20240218 1313	1.1	53
20240218 1323	0.2	105
20240218 1333	0.9	56
20240218 1343	0.5	32
20240218 1353	0.3	5
20240218 1403	0.1	282
20240218 1413	1.8	66
20240218 1423	0.1	276
20240218 1433	0.3	332
20240218 1443	0.4	349
20240218 1453	1.5	12
20240218 1503	0.4	43
20240218 1513	1.1	1
20240218 1523	0.8	83
20240218 1533	0.8	51
20240218 1543	0.3	10
20240218 1553	0.2	315
20240218 1603	1.2	131
20240218 1613	2.9	35
20240218 1623	1.3	27
20240218 1633	0.3	322
20240218 1643	0.2	60
20240218 1653	0.1	14
20240218 1703	1.9	326
20240218 1713	0.7	288
20240218 1723	1.5	46
20240218 1733	0.4	228
20240218 1743	0.4	291
20240218 1753	0.2	70
20240218 1803	0.6	95
20240218 1813	0.1	312
20240218 1823	0.1	347
20240218 1833	0.5	255
20240218 1843	0.2	332
20240218 1853	0.1	55
20240218 1903	0.2	134
20240218 1913	0.1	123
20240218 1923	0.1	164
20240218 1933	0.4	181
20240218 1943	0.1	70
20240218 1953	0.1	59
20240218 2003	0.1	24
20240218 2013	0.1	261
20240218 2023	0.1	325
20240218 2033	0.4	113
20240218 2043	0.1	119
20240218 2053	2.1	112
20240218 2103	0.1	152
20240218 2113	0.1	110
20240218 2123	0.1	145
20240218 2133	0.1	91
20240218 2143	0.1	113
20240218 2153	0.1	133
20240218 2203	0.1	230
20240218 2213	0.1	167
20240218 2223	0.4	122
20240218 2233	0.3	109
20240218 2243	0.6	102
20240218 2253	0.1	115
20240218 2303	0.1	29
20240218 2313	0.1	98
20240218 2323	0.1	43
20240218 2333	0.1	30
20240218 2343	0.1	61
20240218 2353	0.1	83

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240219 0003	0.1	157
20240219 0013	0.1	55
20240219 0023	0.1	71
20240219 0033	0.1	72
20240219 0043	0.1	184
20240219 0053	0.1	36
20240219 0103	0.1	116
20240219 0113	0.1	60
20240219 0123	0.1	87
20240219 0133	0.1	257
20240219 0143	0.1	137
20240219 0153	0.1	19
20240219 0203	0.1	352
20240219 0213	0.1	73
20240219 0223	0.1	89
20240219 0233	0.1	89
20240219 0243	0.1	52
20240219 0253	0.1	81
20240219 0303	0.1	114
20240219 0313	0.1	78
20240219 0323	0.1	150
20240219 0333	0.1	85
20240219 0343	0.1	55
20240219 0353	0.1	80
20240219 0403	0.1	343
20240219 0413	0.1	312
20240219 0423	0.1	154
20240219 0433	0.1	333
20240219 0443	0.2	92
20240219 0453	0.2	54
20240219 0503	1.6	106
20240219 0513	0.7	75
20240219 0523	0.2	122
20240219 0533	0.1	70
20240219 0543	0.1	12
20240219 0553	0.1	99
20240219 0603	0.8	126
20240219 0613	0.1	191
20240219 0623	0.1	95
20240219 0633	2.6	82
20240219 0643	0.1	58
20240219 0653	1	68
20240219 0703	0.1	174
20240219 0713	0.4	15
20240219 0723	0.1	73
20240219 0733	0.1	234
20240219 0743	0.5	343
20240219 0753	0.1	175
20240219 0803	0.3	108
20240219 0813	0.1	249
20240219 0823	0.1	200
20240219 0833	0.2	40
20240219 0843	0.3	127
20240219 0853	0.5	160
20240219 0903	0.1	103
20240219 0913	0.2	105
20240219 0923	0.1	67
20240219 0933	0.1	354
20240219 0943	0.1	142
20240219 0953	0.1	154
20240219 1003	0.2	305
20240219 1013	0.1	115
20240219 1023	0.1	77
20240219 1033	0.1	264
20240219 1043	0.2	221
20240219 1053	0.1	156
20240219 1103	0.2	34
20240219 1113	0.1	196
20240219 1123	0.2	79
20240219 1133	2.4	123
20240219 1143	1.7	117
20240219 1153	0.7	120

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240219 1203	0.5	25
20240219 1213	0.5	94
20240219 1223	0.1	64
20240219 1233	0.1	52
20240219 1243	0.2	282
20240219 1253	0.1	218
20240219 1303	0.1	155
20240219 1313	0.1	112
20240219 1323	0.4	329
20240219 1333	0.1	134
20240219 1343	1.8	42
20240219 1353	1.1	111
20240219 1403	1.7	166
20240219 1413	0.1	119
20240219 1423	0.1	271
20240219 1433	0.2	268
20240219 1443	0.2	127
20240219 1453	2.6	118
20240219 1503	0.1	0
20240219 1513	0.1	101
20240219 1523	0.1	123
20240219 1533	2.3	111
20240219 1543	0.1	304
20240219 1553	0.1	31
20240219 1603	0.2	139
20240219 1613	0.5	24
20240219 1623	0.4	337
20240219 1633	0.1	329
20240219 1643	0.3	164
20240219 1653	0.6	64
20240219 1703	0.1	175
20240219 1713	0.9	202
20240219 1723	0.4	50
20240219 1733	0.4	66
20240219 1743	2.4	69
20240219 1753	0.5	265
20240219 1803	1.4	49
20240219 1813	0.2	99
20240219 1823	0.4	173
20240219 1833	0.1	48
20240219 1843	0.2	32
20240219 1853	0.2	78
20240219 1903	0.1	352
20240219 1913	0.1	121
20240219 1923	0.1	112
20240219 1933	0.2	118
20240219 1943	0.3	148
20240219 1953	0.1	341
20240219 2003	0.8	37
20240219 2013	0.4	148
20240219 2023	0.4	112
20240219 2033	0.2	11
20240219 2043	0.1	303
20240219 2053	0.1	343
20240219 2103	0.1	186
20240219 2113	0.1	353
20240219 2123	0.2	105
20240219 2133	0.2	142
20240219 2143	0.1	325
20240219 2153	0.1	42
20240219 2203	0.1	143
20240219 2213	0.8	331
20240219 2223	0.1	62
20240219 2233	0.2	41
20240219 2243	0.1	49
20240219 2253	0.1	76
20240219 2303	0.6	347
20240219 2313	0.1	28
20240219 2323	0.8	97
20240219 2333	0.1	9
20240219 2343	0.1	5
20240219 2353	0.1	327

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240220 0003	0.1	21
20240220 0013	0.3	330
20240220 0023	1.1	99
20240220 0033	0.3	254
20240220 0043	0.1	340
20240220 0053	0.3	96
20240220 0103	3.1	146
20240220 0113	0.6	77
20240220 0123	0.1	60
20240220 0133	0.3	5
20240220 0143	0.1	226
20240220 0153	0.1	47
20240220 0203	0.1	33
20240220 0213	0.1	294
20240220 0223	0.1	274
20240220 0233	0.3	127
20240220 0243	0.1	61
20240220 0253	1.1	66
20240220 0303	1.7	103
20240220 0313	1	73
20240220 0323	0.3	70
20240220 0333	0.6	117
20240220 0343	0.1	148
20240220 0353	1.3	122
20240220 0403	0.1	109
20240220 0413	0.1	75
20240220 0423	0.1	347
20240220 0433	0.1	40
20240220 0443	0.1	331
20240220 0453	0.1	297
20240220 0503	0.3	159
20240220 0513	1.6	174
20240220 0523	0.2	220
20240220 0533	0.1	235
20240220 0543	0.1	100
20240220 0553	0.2	337
20240220 0603	2.1	319
20240220 0613	0.1	273
20240220 0623	0.1	6
20240220 0633	0.1	135
20240220 0643	0.1	87
20240220 0653	0.1	114
20240220 0703	0.1	79
20240220 0713	0.1	55
20240220 0723	0.1	300
20240220 0733	0.1	74
20240220 0743	0.2	354
20240220 0753	0.1	162
20240220 0803	0.1	183
20240220 0813	0.2	237
20240220 0823	0.1	156
20240220 0833	0.3	322
20240220 0843	0.1	258
20240220 0853	2	318
20240220 0903	0.3	72
20240220 0913	0.6	123
20240220 0923	0.8	298
20240220 0933	1	55
20240220 0943	0.2	25
20240220 0953	1.1	342
20240220 1003	0.1	115
20240220 1013	0.2	124
20240220 1023	2.8	30
20240220 1033	1	46
20240220 1043	0.2	283
20240220 1053	2.2	54
20240220 1103	0.1	61
20240220 1113	1.6	314
20240220 1123	1	306
20240220 1133	1.9	45
20240220 1143	2.6	44
20240220 1153	0.7	352

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240220 1203	1.2	330
20240220 1213	0.3	88
20240220 1223	2.1	22
20240220 1233	7.2	330
20240220 1243	0.5	30
20240220 1253	0.4	264
20240220 1303	0.9	329
20240220 1313	0.9	316
20240220 1323	1.5	339
20240220 1333	1.2	291
20240220 1343	0.9	50
20240220 1353	1.3	41
20240220 1403	1.5	308
20240220 1413	0.1	155
20240220 1423	2.5	1
20240220 1433	1.5	142
20240220 1443	0.1	55
20240220 1453	0.7	318
20240220 1503	0.1	285
20240220 1513	0.9	42
20240220 1523	0.3	54
20240220 1533	0.1	62
20240220 1543	0.5	157
20240220 1553	0.2	329
20240220 1603	0.2	84
20240220 1613	0.1	93
20240220 1623	1.4	42
20240220 1633	1.1	99
20240220 1643	0.9	56
20240220 1653	0.3	108
20240220 1703	0.7	6
20240220 1713	0.8	84
20240220 1723	1.2	99
20240220 1733	0.1	198
20240220 1743	0.3	338
20240220 1753	0.3	70
20240220 1803	0.1	65
20240220 1813	0.1	214
20240220 1823	0.1	212
20240220 1833	1.2	119
20240220 1843	0.1	82
20240220 1853	0.4	73
20240220 1903	0.1	292
20240220 1913	0.1	127
20240220 1923	0.1	188
20240220 1933	0.1	352
20240220 1943	0.3	142
20240220 1953	0.3	268
20240220 2003	0.1	213
20240220 2013	0.9	11
20240220 2023	0.1	96
20240220 2033	0.4	103
20240220 2043	0.1	2
20240220 2053	0.1	79
20240220 2103	0.1	137
20240220 2113	0.1	165
20240220 2123	0.2	266
20240220 2133	0.1	284
20240220 2143	0.1	285
20240220 2153	0.1	74
20240220 2203	0.1	7
20240220 2213	0.3	91
20240220 2223	0.6	24
20240220 2233	0.1	7
20240220 2243	0.1	32
20240220 2253	0.1	35
20240220 2303	0.3	41
20240220 2313	0.1	40
20240220 2323	0.1	294
20240220 2333	0.4	163
20240220 2343	0.1	252
20240220 2353	0.1	186

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240221 0003	0.2	98
20240221 0013	0.1	89
20240221 0023	0.1	153
20240221 0033	1.4	102
20240221 0043	0.1	40
20240221 0053	3	51
20240221 0103	0.4	342
20240221 0113	0.2	66
20240221 0123	0.1	146
20240221 0133	0.1	289
20240221 0143	1	116
20240221 0153	0.1	50
20240221 0203	0.1	51
20240221 0213	0.1	50
20240221 0223	0.1	90
20240221 0233	0.1	145
20240221 0243	0.1	51
20240221 0253	0.1	110
20240221 0303	0.1	87
20240221 0313	0.1	233
20240221 0323	0.1	147
20240221 0333	0.1	267
20240221 0343	0.1	331
20240221 0353	0.1	136
20240221 0403	0.1	54
20240221 0413	0.1	70
20240221 0423	0.1	45
20240221 0433	0.1	41
20240221 0443	0.1	48
20240221 0453	0.1	57
20240221 0503	0.1	57
20240221 0513	0.1	31
20240221 0523	0.1	31
20240221 0533	0.1	29
20240221 0543	0.1	106
20240221 0553	0.1	121
20240221 0603	0.1	55
20240221 0613	0.1	37
20240221 0623	0.1	152
20240221 0633	0.1	129
20240221 0643	0.7	104
20240221 0653	0.1	40
20240221 0703	2.7	156
20240221 0713	1.6	148
20240221 0723	0.1	181
20240221 0733	0.1	331
20240221 0743	0.1	81
20240221 0753	0.1	80
20240221 0803	0.1	105
20240221 0813	0.2	312
20240221 0823	0.1	111
20240221 0833	0.1	318
20240221 0843	0.1	74
20240221 0853	0.2	279
20240221 0903	0.1	56
20240221 0913	0.8	285
20240221 0923	0.2	165
20240221 0933	0.6	47
20240221 0943	2.2	63
20240221 0953	0.8	287
20240221 1003	0.1	332
20240221 1013	1.1	103
20240221 1023	3.2	144
20240221 1033	0.4	25
20240221 1043	5.9	117
20240221 1053	1.6	349
20240221 1103	2.5	233
20240221 1113	0.7	172
20240221 1123	0.5	53
20240221 1133	0.2	89
20240221 1143	0.1	69
20240221 1153	0.1	299

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240221 1203	1.3	333
20240221 1213	0.1	18
20240221 1223	1.1	3
20240221 1233	0.3	64
20240221 1243	0.8	41
20240221 1253	1.2	24
20240221 1303	0.3	28
20240221 1313	0.1	63
20240221 1323	2.4	26
20240221 1333	0.7	182
20240221 1343	1.3	80
20240221 1353	0.7	12
20240221 1403	0.6	81
20240221 1413	1.6	9
20240221 1423	0.9	86
20240221 1433	0.1	49
20240221 1443	0.1	16
20240221 1453	1.3	124
20240221 1503	0.3	329
20240221 1513	7.6	2
20240221 1523	0.1	217
20240221 1533	0.1	221
20240221 1543	1.3	111
20240221 1553	1.9	96
20240221 1603	0.8	38
20240221 1613	0.8	318
20240221 1623	2.1	12
20240221 1633	0.7	50
20240221 1643	0.5	31
20240221 1653	0.8	119
20240221 1703	0.2	104
20240221 1713	0.1	343
20240221 1723	0.3	61
20240221 1733	0.2	17
20240221 1743	0.3	314
20240221 1753	3	121
20240221 1803	0.1	44
20240221 1813	0.1	79
20240221 1823	0.4	131
20240221 1833	0.1	124
20240221 1843	0.1	120
20240221 1853	1.4	121
20240221 1903	2.4	116
20240221 1913	0.8	57
20240221 1923	0.1	69
20240221 1933	0.1	178
20240221 1943	0.2	24
20240221 1953	0.5	345
20240221 2003	0.2	100
20240221 2013	0.3	141
20240221 2023	0.1	123
20240221 2033	0.3	107
20240221 2043	0.1	78
20240221 2053	0.1	116
20240221 2103	0.1	99
20240221 2113	0.1	75
20240221 2123	0.1	70
20240221 2133	0.1	100
20240221 2143	0.1	119
20240221 2153	0.1	63
20240221 2203	0.1	93
20240221 2213	0.2	48
20240221 2223	0.2	70
20240221 2233	0.1	49
20240221 2243	0.1	83
20240221 2253	0.1	127
20240221 2303	0.1	92
20240221 2313	0.1	83
20240221 2323	0.1	123
20240221 2333	0.1	64
20240221 2343	0.1	48
20240221 2353	0.1	59

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240222 0003	0.2	64
20240222 0013	0.1	100
20240222 0023	0.1	95
20240222 0033	0.1	37
20240222 0043	0.1	131
20240222 0053	0.1	140
20240222 0103	0.1	111
20240222 0113	0.1	120
20240222 0123	0.1	59
20240222 0133	0.1	51
20240222 0143	0.1	102
20240222 0153	0.1	70
20240222 0203	0.1	74
20240222 0213	0.1	53
20240222 0223	0.1	2
20240222 0233	0.1	141
20240222 0243	0.1	60
20240222 0253	0.1	165
20240222 0303	0.1	239
20240222 0313	0.1	40
20240222 0323	0.1	169
20240222 0333	0.1	129
20240222 0343	0.1	135
20240222 0353	0.1	156
20240222 0403	0.1	153
20240222 0413	0.1	144
20240222 0423	0.1	34
20240222 0433	0.1	140
20240222 0443	0.1	285
20240222 0453	0.1	45
20240222 0503	0.1	68
20240222 0513	0.1	304
20240222 0523	0.4	55
20240222 0533	0.1	61
20240222 0543	0.1	62
20240222 0553	0.5	38
20240222 0603	0.2	88
20240222 0613	0.1	53
20240222 0623	0.1	85
20240222 0633	0.1	54
20240222 0643	0.1	30
20240222 0653	0.8	79
20240222 0703	0.3	132
20240222 0713	0.3	21
20240222 0723	0.1	84
20240222 0733	0.1	199
20240222 0743	0.1	95
20240222 0753	0.1	158
20240222 0803	0.1	14
20240222 0813	0.1	69
20240222 0823	0.1	303
20240222 0833	0.3	23
20240222 0843	0.1	190
20240222 0853	0.1	61
20240222 0903	0.1	57
20240222 0913	0.1	288
20240222 0923	0.4	32
20240222 0933	0.6	47
20240222 0943	0.8	26
20240222 0953	0.3	72
20240222 1003	0.8	69
20240222 1013	0.1	100
20240222 1023	0.1	71
20240222 1033	0.4	319
20240222 1043	0.6	313
20240222 1053	0.1	111
20240222 1103	0.6	156
20240222 1113	0.1	187
20240222 1123	1.1	35
20240222 1133	0.1	75
20240222 1143	0.1	0
20240222 1153	1	28

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240222 1203	0.6	171
20240222 1213	1.5	12
20240222 1223	0.6	124
20240222 1233	0.1	186
20240222 1243	0.1	101
20240222 1253	2.4	144
20240222 1303	3.2	145
20240222 1313	1.3	39
20240222 1323	1.5	157
20240222 1333	0.2	83
20240222 1343	1.5	129
20240222 1353	2.9	69
20240222 1403	1.7	71
20240222 1413	3.4	14
20240222 1423	0.1	138
20240222 1433	3.5	160
20240222 1443	0.6	334
20240222 1453	2.6	12
20240222 1503	0.1	203
20240222 1513	0.1	164
20240222 1523	0.8	37
20240222 1533	0.1	150
20240222 1543	1.4	19
20240222 1553	0.1	96
20240222 1603	1.9	111
20240222 1613	1.2	21
20240222 1623	0.1	22
20240222 1633	0.3	89
20240222 1643	1.9	157
20240222 1653	4.1	128
20240222 1703	0.1	250
20240222 1713	2.3	107
20240222 1723	1.4	85
20240222 1733	0.3	72
20240222 1743	0.6	197
20240222 1753	0.7	354
20240222 1803	0.4	155
20240222 1813	0.2	180
20240222 1823	0.1	71
20240222 1833	0.2	129
20240222 1843	0.1	113
20240222 1853	0.3	135
20240222 1903	0.5	89
20240222 1913	0.1	146
20240222 1923	0.1	16
20240222 1933	0.3	35
20240222 1943	0.2	34
20240222 1953	1	97
20240222 2003	0.1	102
20240222 2013	0.1	337
20240222 2023	1	9
20240222 2033	1.7	94
20240222 2043	1.5	40
20240222 2053	1.3	354
20240222 2103	0.1	181
20240222 2113	0.1	135
20240222 2123	0.1	350
20240222 2133	0.2	314
20240222 2143	0.2	104
20240222 2153	0.2	296
20240222 2203	0.3	334
20240222 2213	0.1	56
20240222 2223	0.1	206
20240222 2233	0.8	302
20240222 2243	0.1	300
20240222 2253	0.1	18
20240222 2303	0.1	147
20240222 2313	0.5	272
20240222 2323	0.1	300
20240222 2333	0.1	79
20240222 2343	0.1	332
20240222 2353	0.3	21

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240223 0003	1.2	323
20240223 0013	0.1	138
20240223 0023	0.1	292
20240223 0033	0.1	151
20240223 0043	0.1	18
20240223 0053	0.1	316
20240223 0103	0.1	29
20240223 0113	0.4	304
20240223 0123	0.9	59
20240223 0133	0.3	37
20240223 0143	0.1	349
20240223 0153	0.5	65
20240223 0203	0.3	17
20240223 0213	0.1	12
20240223 0223	0.1	36
20240223 0233	3.1	6
20240223 0243	0.2	69
20240223 0253	0.1	353
20240223 0303	0.1	153
20240223 0313	0.1	230
20240223 0323	0.1	289
20240223 0333	0.1	126
20240223 0343	0.1	134
20240223 0353	0.1	264
20240223 0403	0.1	165
20240223 0413	0.1	155
20240223 0423	0.1	153
20240223 0433	0.1	242
20240223 0443	0.1	112
20240223 0453	0.1	114
20240223 0503	0.1	265
20240223 0513	0.1	176
20240223 0523	0.1	144
20240223 0533	0.1	95
20240223 0543	0.1	140
20240223 0553	0.1	151
20240223 0603	0.1	169
20240223 0613	0.1	147
20240223 0623	0.1	137
20240223 0633	0.1	161
20240223 0643	0.1	151
20240223 0653	0.1	160
20240223 0703	0.1	141
20240223 0713	0.3	157
20240223 0723	0.1	148
20240223 0733	0.1	135
20240223 0743	0.5	138
20240223 0753	0.1	94
20240223 0803	0.1	337
20240223 0813	0.1	9
20240223 0823	0.1	66
20240223 0833	0.1	337
20240223 0843	0.1	345
20240223 0853	0.1	26
20240223 0903	0.1	10
20240223 0913	0.2	355
20240223 0923	0.1	3
20240223 0933	0.1	25
20240223 0943	0.1	116
20240223 0953	0.1	136
20240223 1003	0.1	281
20240223 1013	0.1	274
20240223 1023	0.3	261
20240223 1033	0.3	314
20240223 1043	0.4	289
20240223 1053	0.2	17
20240223 1103	0.1	302
20240223 1113	0.1	262
20240223 1123	0.2	192
20240223 1133	0.1	260
20240223 1143	0.1	50
20240223 1153	0.1	309

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240223 1203	0.1	275
20240223 1213	0.1	240
20240223 1223	0.3	54
20240223 1233	0.2	338
20240223 1243	0.1	342
20240223 1253	0.1	226
20240223 1303	0.1	54
20240223 1313	0.1	290
20240223 1323	0.2	0
20240223 1333	0.1	301
20240223 1343	0.1	91
20240223 1353	0.1	16
20240223 1403	1.2	330
20240223 1413	0.2	331
20240223 1423	1.3	26
20240223 1433	0.1	132
20240223 1443	0.1	112
20240223 1453	0.1	316
20240223 1503	0.1	243
20240223 1513	0.1	250
20240223 1523	0.1	210
20240223 1533	0.1	327
20240223 1543	0.1	273
20240223 1553	0.1	203
20240223 1603	0.1	260
20240223 1613	0.1	205
20240223 1623	0.1	304
20240223 1633	0.1	232
20240223 1643	0.1	229
20240223 1653	0.1	177
20240223 1703	0.1	150
20240223 1713	0.1	248
20240223 1723	0.1	330
20240223 1733	0.1	140
20240223 1743	0.1	139
20240223 1753	0.1	242
20240223 1803	0.1	114
20240223 1813	0.1	141
20240223 1823	0.1	103
20240223 1833	0.1	141
20240223 1843	0.1	80
20240223 1853	0.1	130
20240223 1903	0.1	128
20240223 1913	0.1	150
20240223 1923	0.1	140
20240223 1933	0.1	102
20240223 1943	0.1	122
20240223 1953	0.1	157
20240223 2003	0.1	295
20240223 2013	0.1	155
20240223 2023	0.1	344
20240223 2033	0.1	303
20240223 2043	0.1	51
20240223 2053	0.1	328
20240223 2103	0.1	139
20240223 2113	0.1	110
20240223 2123	0.1	152
20240223 2133	0.1	139
20240223 2143	0.1	23
20240223 2153	0.1	15
20240223 2203	0.9	326
20240223 2213	0.8	351
20240223 2223	0.2	317
20240223 2233	0.1	331
20240223 2243	0.1	332
20240223 2253	0.1	41
20240223 2303	0.3	326
20240223 2313	0.2	347
20240223 2323	0.5	33
20240223 2333	0.1	74
20240223 2343	1	337
20240223 2353	0.9	333

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240224 0003	0.1	270
20240224 0013	0.3	305
20240224 0023	0.1	79
20240224 0033	0.1	40
20240224 0043	1.6	303
20240224 0053	0.3	341
20240224 0103	0.1	20
20240224 0113	0.1	21
20240224 0123	0.1	308
20240224 0133	0.1	25
20240224 0143	0.5	47
20240224 0153	0.1	183
20240224 0203	0.2	330
20240224 0213	0.1	82
20240224 0223	0.2	8
20240224 0233	0.4	9
20240224 0243	0.2	299
20240224 0253	0.1	125
20240224 0303	0.1	121
20240224 0313	0.5	161
20240224 0323	0.1	138
20240224 0333	0.1	251
20240224 0343	0.1	137
20240224 0353	0.1	265
20240224 0403	0.1	137
20240224 0413	0.1	113
20240224 0423	0.1	122
20240224 0433	0.1	155
20240224 0443	0.1	283
20240224 0453	0.1	271
20240224 0503	0.1	174
20240224 0513	0.1	17
20240224 0523	0.1	252
20240224 0533	0.1	78
20240224 0543	0.1	29
20240224 0553	0.1	109
20240224 0603	0.1	133
20240224 0613	0.1	236
20240224 0623	0.1	256
20240224 0633	0.1	333
20240224 0643	0.1	249
20240224 0653	0.1	119
20240224 0703	0.1	140
20240224 0713	0.1	147
20240224 0723	0.1	184
20240224 0733	0.1	234
20240224 0743	0.1	233
20240224 0753	0.1	182
20240224 0803	0.1	338
20240224 0813	0.1	31
20240224 0823	0.1	224
20240224 0833	0.1	348
20240224 0843	0.2	290
20240224 0853	0.1	255
20240224 0903	0.1	156
20240224 0913	0.1	143
20240224 0923	0.1	247
20240224 0933	0.1	254
20240224 0943	0.1	283
20240224 0953	0.1	159
20240224 1003	0.3	251
20240224 1013	0.3	272
20240224 1023	0.3	287
20240224 1033	0.3	212
20240224 1043	0.3	297
20240224 1053	0.1	196
20240224 1103	0.1	97
20240224 1113	0.1	281
20240224 1123	0.2	290
20240224 1133	1.2	283
20240224 1143	0.2	257
20240224 1153	0.3	262

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240224 1203	0.1	156
20240224 1213	0.3	335
20240224 1223	0.1	259
20240224 1233	0.1	38
20240224 1243	0.1	257
20240224 1253	0.2	198
20240224 1303	0.4	230
20240224 1313	0.1	104
20240224 1323	0.4	152
20240224 1333	0.1	234
20240224 1343	0.1	315
20240224 1353	0.3	268
20240224 1403	0.1	97
20240224 1413	0.1	80
20240224 1423	0.1	144
20240224 1433	0.1	344
20240224 1443	0.3	59
20240224 1453	0.3	70
20240224 1503	0.4	42
20240224 1513	0.5	62
20240224 1523	0.1	185
20240224 1533	0.1	331
20240224 1543	0.1	250
20240224 1553	0.1	107
20240224 1603	0.1	86
20240224 1613	0.1	257
20240224 1623	0.1	104
20240224 1633	0.3	31
20240224 1643	0.8	2
20240224 1653	0.5	32
20240224 1703	0.1	354
20240224 1713	1.2	336
20240224 1723	0.7	80
20240224 1733	0.1	120
20240224 1743	1	100
20240224 1753	0.1	121
20240224 1803	0.3	321
20240224 1813	0.1	157
20240224 1823	0.2	298
20240224 1833	0.5	46
20240224 1843	0.1	116
20240224 1853	2.1	168
20240224 1903	0.2	225
20240224 1913	0.4	141
20240224 1923	0.9	93
20240224 1933	0.6	89
20240224 1943	0.5	24
20240224 1953	0.1	156
20240224 2003	3.7	317
20240224 2013	0.6	300
20240224 2023	1.9	299
20240224 2033	0.1	83
20240224 2043	0.1	181
20240224 2053	0.3	48
20240224 2103	0.1	307
20240224 2113	0.1	14
20240224 2123	0.2	105
20240224 2133	0.1	151
20240224 2143	0.1	159
20240224 2153	0.1	192
20240224 2203	0.1	324
20240224 2213	0.1	144
20240224 2223	0.1	108
20240224 2233	0.1	342
20240224 2243	0.2	112
20240224 2253	0.1	116
20240224 2303	0.1	119
20240224 2313	0.1	127
20240224 2323	0.1	145
20240224 2333	1.4	151
20240224 2343	0.5	139
20240224 2353	0.1	154

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240225 0003	0.1	296
20240225 0013	0.1	170
20240225 0023	0.1	99
20240225 0033	0.2	112
20240225 0043	0.1	237
20240225 0053	0.1	251
20240225 0103	0.1	279
20240225 0113	0.1	240
20240225 0123	0.1	233
20240225 0133	0.1	335
20240225 0143	0.1	249
20240225 0153	0.2	27
20240225 0203	0.7	131
20240225 0213	0.1	137
20240225 0223	1.1	139
20240225 0233	0.2	150
20240225 0243	0.1	96
20240225 0253	0.1	273
20240225 0303	0.1	67
20240225 0313	0.1	255
20240225 0323	1.1	117
20240225 0333	0.2	102
20240225 0343	0.5	142
20240225 0353	0.5	4
20240225 0403	0.5	72
20240225 0413	0.1	205
20240225 0423	0.1	126
20240225 0433	0.1	277
20240225 0443	0.1	19
20240225 0453	0.9	325
20240225 0503	0.6	333
20240225 0513	1	81
20240225 0523	0.9	318
20240225 0533	1.1	287
20240225 0543	0.1	39
20240225 0553	0.1	284
20240225 0603	0.1	219
20240225 0613	0.1	164
20240225 0623	0.1	242
20240225 0633	0.1	278
20240225 0643	0.1	241
20240225 0653	0.1	354
20240225 0703	0.1	170
20240225 0713	0.1	242
20240225 0723	0.2	292
20240225 0733	0.1	70
20240225 0743	0.1	193
20240225 0753	0.1	140
20240225 0803	0.1	136
20240225 0813	0.1	187
20240225 0823	0.1	202
20240225 0833	0.1	15
20240225 0843	0.3	275
20240225 0853	0.1	238
20240225 0903	0.2	237
20240225 0913	0.1	176
20240225 0923	0.1	242
20240225 0933	0.1	232
20240225 0943	0.1	243
20240225 0953	0.1	129
20240225 1003	0.2	252
20240225 1013	0.1	319
20240225 1023	0.1	152
20240225 1033	0.1	217
20240225 1043	0.1	267
20240225 1053	0.2	217
20240225 1103	0.1	262
20240225 1113	0.2	275
20240225 1123	0.3	250
20240225 1133	0.2	318
20240225 1143	0.1	230
20240225 1153	0.1	207

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240225 1203	0.2	110
20240225 1213	0.1	42
20240225 1223	0.4	120
20240225 1233	0.1	325
20240225 1243	0.2	127
20240225 1253	0.1	100
20240225 1303	0.1	137
20240225 1313	0.1	214
20240225 1323	0.4	138
20240225 1333	0.2	106
20240225 1343	0.1	103
20240225 1353	0.1	82
20240225 1403	0.6	136
20240225 1413	0.1	172
20240225 1423	1.7	158
20240225 1433	0.1	200
20240225 1443	0.8	97
20240225 1453	0.5	197
20240225 1503	0.9	34
20240225 1513	0.1	40
20240225 1523	1.2	76
20240225 1533	0.7	103
20240225 1543	0.5	99
20240225 1553	0.7	131
20240225 1603	0.1	69
20240225 1613	0.1	315
20240225 1623	0.1	114
20240225 1633	0.1	17
20240225 1643	0.1	268
20240225 1653	0.1	18
20240225 1703	0.1	133
20240225 1713	0.1	69
20240225 1723	0.1	330
20240225 1733	1	266
20240225 1743	0.3	307
20240225 1753	0.3	313
20240225 1803	0.1	31
20240225 1813	0.1	348
20240225 1823	0.1	315
20240225 1833	0.2	297
20240225 1843	0.2	333
20240225 1853	0.1	72
20240225 1903	0.1	147
20240225 1913	0.1	88
20240225 1923	0.1	131
20240225 1933	0.1	146
20240225 1943	0.1	145
20240225 1953	0.1	119
20240225 2003	0.1	63
20240225 2013	0.1	143
20240225 2023	0.1	126
20240225 2033	0.1	128
20240225 2043	0.1	74
20240225 2053	0.1	164
20240225 2103	0.1	148
20240225 2113	0.1	104
20240225 2123	0.1	86
20240225 2133	0.1	144
20240225 2143	0.1	128
20240225 2153	0.1	340
20240225 2203	0.1	43
20240225 2213	0.1	47
20240225 2223	0.1	142
20240225 2233	0.1	261
20240225 2243	0.1	150
20240225 2253	0.1	154
20240225 2303	0.1	115
20240225 2313	0.1	138
20240225 2323	0.3	143
20240225 2333	0.1	153
20240225 2343	0.1	148
20240225 2353	0.1	155

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240226 0003	0.1	134
20240226 0013	0.2	124
20240226 0023	0.3	133
20240226 0033	0.1	138
20240226 0043	0.1	140
20240226 0053	0.1	148
20240226 0103	0.1	159
20240226 0113	0.1	104
20240226 0123	0.1	132
20240226 0133	0.1	296
20240226 0143	0.1	262
20240226 0153	0.1	286
20240226 0203	0.1	232
20240226 0213	0.1	259
20240226 0223	0.1	312
20240226 0233	0.1	120
20240226 0243	0.1	231
20240226 0253	0.1	130
20240226 0303	0.1	209
20240226 0313	0.1	254
20240226 0323	0.1	245
20240226 0333	0.1	262
20240226 0343	0.1	338
20240226 0353	0.1	265
20240226 0403	0.1	322
20240226 0413	0.1	254
20240226 0423	0.2	84
20240226 0433	0.2	27
20240226 0443	0.1	93
20240226 0453	0.1	114
20240226 0503	0.1	342
20240226 0513	0.1	120
20240226 0523	0.1	73
20240226 0533	0.1	269
20240226 0543	0.1	252
20240226 0553	0.1	32
20240226 0603	0.1	51
20240226 0613	0.1	337
20240226 0623	0.1	279
20240226 0633	0.1	134
20240226 0643	0.1	263
20240226 0653	0.1	58
20240226 0703	0.2	23
20240226 0713	0.1	323
20240226 0723	0.1	222
20240226 0733	0.1	86
20240226 0743	0.1	285
20240226 0753	0.1	270
20240226 0803	0.1	238
20240226 0813	0.1	231
20240226 0823	0.2	265
20240226 0833	0.1	254
20240226 0843	0.1	41
20240226 0853	0.1	270
20240226 0903	0.1	285
20240226 0913	0.1	131
20240226 0923	0.1	252
20240226 0933	0.1	225
20240226 0943	0.1	222
20240226 0953	0.1	90
20240226 1003	0.3	253
20240226 1013	0.1	318
20240226 1023	0.2	258
20240226 1033	0.1	242
20240226 1043	0.1	117
20240226 1053	0.1	299
20240226 1103	0.1	297
20240226 1113	0.1	117
20240226 1123	0.1	141
20240226 1133	0.1	147
20240226 1143	1.7	100
20240226 1153	0.1	337

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240226 1203	0.5	279
20240226 1213	0.5	12
20240226 1223	0.1	293
20240226 1233	0.1	143
20240226 1243	0.1	53
20240226 1253	0.1	260
20240226 1303	0.1	131
20240226 1313	0.1	90
20240226 1323	2.3	113
20240226 1333	0.1	354
20240226 1343	0.3	335
20240226 1353	0.5	68
20240226 1403	1.1	50
20240226 1413	0.4	38
20240226 1423	0.1	26
20240226 1433	0.1	304
20240226 1443	0.3	172
20240226 1453	0.4	351
20240226 1503	0.9	146
20240226 1513	0.7	135
20240226 1523	0.1	250
20240226 1533	1.3	76
20240226 1543	0.1	50
20240226 1553	1.1	354
20240226 1603	1.1	21
20240226 1613	0.1	279
20240226 1623	2.5	81
20240226 1633	0.3	147
20240226 1643	0.5	19
20240226 1653	0.9	181
20240226 1703	0.2	107
20240226 1713	0.1	28
20240226 1723	0.1	119
20240226 1733	0.1	70
20240226 1743	0.1	171
20240226 1753	0.4	105
20240226 1803	0.2	140
20240226 1813	0.2	166
20240226 1823	0.1	131
20240226 1833	0.1	230
20240226 1843	0.1	166
20240226 1853	0.1	287
20240226 1903	0.1	262
20240226 1913	0.1	342
20240226 1923	0.1	107
20240226 1933	0.1	147
20240226 1943	0.1	149
20240226 1953	0.1	151
20240226 2003	0.1	141
20240226 2013	0.1	148
20240226 2023	0.1	148
20240226 2033	0.1	147
20240226 2043	0.1	171
20240226 2053	0.1	155
20240226 2103	0.1	149
20240226 2113	0.1	207
20240226 2123	0.1	326
20240226 2133	0.1	218
20240226 2143	0.1	214
20240226 2153	0.1	250
20240226 2203	0.1	203
20240226 2213	0.1	135
20240226 2223	0.1	238
20240226 2233	0.1	140
20240226 2243	0.1	150
20240226 2253	0.1	249
20240226 2303	0.1	206
20240226 2313	0.2	156
20240226 2323	0.6	123
20240226 2333	0.4	125
20240226 2343	0.1	187
20240226 2353	0.4	150

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240227 0003	0.2	158
20240227 0013	0.1	173
20240227 0023	0.8	110
20240227 0033	0.6	110
20240227 0043	0.2	51
20240227 0053	0.7	42
20240227 0103	0.1	97
20240227 0113	0.1	132
20240227 0123	0.1	74
20240227 0133	0.1	282
20240227 0143	0.5	313
20240227 0153	0.1	46
20240227 0203	0.1	347
20240227 0213	0.2	325
20240227 0223	1	305
20240227 0233	1.3	329
20240227 0243	0.1	26
20240227 0253	0.1	81
20240227 0303	0.1	322
20240227 0313	0.1	44
20240227 0323	0.4	341
20240227 0333	0.1	262
20240227 0343	0.2	317
20240227 0353	0.1	317
20240227 0403	0.1	296
20240227 0413	0.2	329
20240227 0423	0.1	15
20240227 0433	0.2	340
20240227 0443	0.1	123
20240227 0453	0.1	132
20240227 0503	0.1	148
20240227 0513	0.1	101
20240227 0523	0.1	216
20240227 0533	0.1	255
20240227 0543	0.1	289
20240227 0553	0.1	55
20240227 0603	0.1	38
20240227 0613	0.1	153
20240227 0623	0.1	249
20240227 0633	0.1	314
20240227 0643	0.2	286
20240227 0653	0.1	327
20240227 0703	0.1	351
20240227 0713	0.1	17
20240227 0723	0.1	320
20240227 0733	0.1	153
20240227 0743	0.1	107
20240227 0753	0.3	328
20240227 0803	0.1	310
20240227 0813	0.1	301
20240227 0823	0.1	259
20240227 0833	0.1	328
20240227 0843	0.1	251
20240227 0853	0.1	342
20240227 0903	0.1	269
20240227 0913	0.3	247
20240227 0923	0.1	270
20240227 0933	0.1	81
20240227 0943	0.5	237
20240227 0953	0.1	260
20240227 1003	0.2	242
20240227 1013	0.1	191
20240227 1023	0.1	110
20240227 1033	0.1	221
20240227 1043	1.8	299
20240227 1053	0.4	280
20240227 1103	0.1	196
20240227 1113	0.4	239
20240227 1123	0.1	288
20240227 1133	0.2	184
20240227 1143	2.7	276
20240227 1153	0.4	151

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240227 1203	0.1	86
20240227 1213	0.6	318
20240227 1223	0.1	124
20240227 1233	0.3	266
20240227 1243	0.1	236
20240227 1253	0.1	101
20240227 1303	0.4	253
20240227 1313	0.1	339
20240227 1323	0.1	319
20240227 1333	0.2	115
20240227 1343	0.1	236
20240227 1353	0.4	298
20240227 1403	0.3	221
20240227 1413	0.1	219
20240227 1423	1.9	113
20240227 1433	0.1	326
20240227 1443	0.6	97
20240227 1453	0.1	138
20240227 1503	0.1	131
20240227 1513	0.4	92
20240227 1523	0.1	139
20240227 1533	1.5	137
20240227 1543	0.3	165
20240227 1553	0.1	157
20240227 1603	0.1	58
20240227 1613	0.1	121
20240227 1623	0.9	312
20240227 1633	0.1	252
20240227 1643	0.1	4
20240227 1653	0.7	100
20240227 1703	0.3	129
20240227 1713	0.1	35
20240227 1723	0.1	137
20240227 1733	0.4	97
20240227 1743	0.4	20
20240227 1753	0.2	114
20240227 1803	0.8	159
20240227 1813	0.5	134
20240227 1823	0.1	3
20240227 1833	0.1	60
20240227 1843	0.1	144
20240227 1853	0.2	93
20240227 1903	0.1	185
20240227 1913	1.3	145
20240227 1923	0.3	137
20240227 1933	0.2	344
20240227 1943	1	28
20240227 1953	0.1	46
20240227 2003	0.1	185
20240227 2013	0.1	300
20240227 2023	0.1	107
20240227 2033	0.1	144
20240227 2043	0.1	307
20240227 2053	0.1	82
20240227 2103	0.1	182
20240227 2113	0.1	160
20240227 2123	0.1	350
20240227 2133	0.1	305
20240227 2143	0.1	63
20240227 2153	0.4	177
20240227 2203	0.1	242
20240227 2213	0.1	301
20240227 2223	0.1	313
20240227 2233	0.1	266
20240227 2243	0.8	45
20240227 2253	0.1	8
20240227 2303	0.1	76
20240227 2313	0.1	301
20240227 2323	0.2	56
20240227 2333	0.1	319
20240227 2343	0.1	150
20240227 2353	0.1	155

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240228 0003	0.1	88
20240228 0013	0.2	152
20240228 0023	0.1	100
20240228 0033	0.1	263
20240228 0043	0.1	256
20240228 0053	0.1	288
20240228 0103	0.5	8
20240228 0113	0.3	13
20240228 0123	0.5	75
20240228 0133	0.1	63
20240228 0143	0.1	24
20240228 0153	0.1	96
20240228 0203	0.1	211
20240228 0213	0.3	217
20240228 0223	0.5	68
20240228 0233	0.1	147
20240228 0243	0.1	110
20240228 0253	0.1	63
20240228 0303	0.2	44
20240228 0313	0.1	355
20240228 0323	0.1	184
20240228 0333	0.1	43
20240228 0343	0.2	71
20240228 0353	0.1	135
20240228 0403	0.1	343
20240228 0413	0.1	57
20240228 0423	0.1	8
20240228 0433	0.1	72
20240228 0443	0.2	9
20240228 0453	2.6	59
20240228 0503	0.1	150
20240228 0513	0.3	333
20240228 0523	0.2	295
20240228 0533	0.3	169
20240228 0543	0.1	81
20240228 0553	0.2	305
20240228 0603	0.4	339
20240228 0613	0.2	301
20240228 0623	0.1	164
20240228 0633	0.1	39
20240228 0643	1.3	11
20240228 0653	0.1	219
20240228 0703	0.7	297
20240228 0713	0.2	302
20240228 0723	0.3	163
20240228 0733	0.1	298
20240228 0743	4	311
20240228 0753	0.2	70
20240228 0803	0.1	334
20240228 0813	2.1	165
20240228 0823	0.3	51
20240228 0833	0.4	349
20240228 0843	0.6	14
20240228 0853	0.8	329
20240228 0903	0.9	5
20240228 0913	0.1	344
20240228 0923	0.8	328
20240228 0933	0.8	326
20240228 0943	1.9	266
20240228 0953	0.4	36
20240228 1003	0.4	333
20240228 1013	0.1	310
20240228 1023	0.1	168
20240228 1033	3.3	15
20240228 1043	1.1	26
20240228 1053	0.1	246
20240228 1103	1.7	160
20240228 1113	0.1	102
20240228 1123	0.3	225
20240228 1133	2.2	332
20240228 1143	1.6	64
20240228 1153	0.6	303

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240228 1203	0.3	199
20240228 1213	0.1	339
20240228 1223	2.7	144
20240228 1233	0.1	350
20240228 1243	2.8	176
20240228 1253	0.3	52
20240228 1303	1.1	333
20240228 1313	0.1	327
20240228 1323	2.5	312
20240228 1333	0.5	125
20240228 1343	2.6	190
20240228 1353	0.3	13
20240228 1403	0.4	307
20240228 1413	0.1	240
20240228 1423	0.1	219
20240228 1433	3.1	339
20240228 1443	0.1	324
20240228 1453	2.2	270
20240228 1503	0.8	331
20240228 1513	0.1	83
20240228 1523	0.1	180
20240228 1533	0.8	74
20240228 1543	0.7	323
20240228 1553	2.5	353
20240228 1603	0.2	76
20240228 1613	0.1	73
20240228 1623	0.1	90
20240228 1633	0.4	116
20240228 1643	0.1	224
20240228 1653	0.1	25
20240228 1703	0.3	118
20240228 1713	0.1	196
20240228 1723	0.1	126
20240228 1733	0.2	60
20240228 1743	0.1	320
20240228 1753	0.1	304
20240228 1803	0.1	119
20240228 1813	0.2	158
20240228 1823	0.1	144
20240228 1833	0.1	147
20240228 1843	0.1	210
20240228 1853	0.1	240
20240228 1903	0.1	267
20240228 1913	0.1	129
20240228 1923	0.1	145
20240228 1933	0.2	64
20240228 1943	0.1	133
20240228 1953	0.1	121
20240228 2003	0.1	164
20240228 2013	0.1	127
20240228 2023	0.1	60
20240228 2033	0.1	149
20240228 2043	0.1	255
20240228 2053	0.1	155
20240228 2103	0.1	226
20240228 2113	0.1	269
20240228 2123	0.1	136
20240228 2133	0.1	44
20240228 2143	0.1	142
20240228 2153	0.1	299
20240228 2203	0.1	197
20240228 2213	0.1	145
20240228 2223	0.1	141
20240228 2233	0.1	211
20240228 2243	0.1	269
20240228 2253	0.1	111
20240228 2303	0.1	99
20240228 2313	0.1	103
20240228 2323	0.1	145
20240228 2333	0.1	154
20240228 2343	0.1	138
20240228 2353	0.1	156

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240229 0003	0.3	354
20240229 0013	0.1	59
20240229 0023	0.1	111
20240229 0033	0.1	55
20240229 0043	0.1	152
20240229 0053	0.1	112
20240229 0103	0.1	149
20240229 0113	0.1	143
20240229 0123	0.1	130
20240229 0133	0.1	138
20240229 0143	0.1	46
20240229 0153	0.1	0
20240229 0203	0.1	143
20240229 0213	0.1	133
20240229 0223	0.1	133
20240229 0233	0.1	228
20240229 0243	0.1	145
20240229 0253	0.1	131
20240229 0303	0.1	88
20240229 0313	0.1	46
20240229 0323	0.1	132
20240229 0333	0.1	146
20240229 0343	0.1	144
20240229 0353	0.1	282
20240229 0403	0.1	165
20240229 0413	0.1	124
20240229 0423	0.1	256
20240229 0433	0.1	142
20240229 0443	0.1	354
20240229 0453	0.1	87
20240229 0503	0.1	309
20240229 0513	0.1	110
20240229 0523	0.1	304
20240229 0533	0.1	244
20240229 0543	0.1	74
20240229 0553	0.1	221
20240229 0603	0.1	10
20240229 0613	0.1	246
20240229 0623	0.7	55
20240229 0633	0.1	91
20240229 0643	0.1	280
20240229 0653	0.1	254
20240229 0703	0.1	94
20240229 0713	0.1	190
20240229 0723	0.2	332
20240229 0733	0.1	162
20240229 0743	0.1	295
20240229 0753	0.1	198
20240229 0803	0.1	12
20240229 0813	0.1	94
20240229 0823	0.2	37
20240229 0833	0.4	348
20240229 0843	1.5	332
20240229 0853	0.2	330
20240229 0903	3	102
20240229 0913	0.1	4
20240229 0923	0.1	351
20240229 0933	0.1	5
20240229 0943	0.1	126
20240229 0953	0.1	353
20240229 1003	0.1	122
20240229 1013	2.3	125
20240229 1023	0.6	117
20240229 1033	0.1	142
20240229 1043	0.1	318
20240229 1053	1	143
20240229 1103	0.1	251
20240229 1113	0.1	256
20240229 1123	0.5	144
20240229 1133	0.1	159
20240229 1143	0.1	150
20240229 1153	0.6	248

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240229 1203	0.1	324
20240229 1213	0.1	227
20240229 1223	0.2	295
20240229 1233	0.1	226
20240229 1243	0.1	229
20240229 1253	0.1	197
20240229 1303	0.1	327
20240229 1313	0.2	139
20240229 1323	0.1	204
20240229 1333	0.1	216
20240229 1343	0.1	144
20240229 1353	0.3	177
20240229 1403	0.1	310
20240229 1413	0.1	268
20240229 1423	0.1	237
20240229 1433	0.1	248
20240229 1443	0.1	149
20240229 1453	0.1	134
20240229 1503	0.2	160
20240229 1513	0.1	349
20240229 1523	0.3	110
20240229 1533	1.4	93
20240229 1543	0.2	81
20240229 1553	1.1	112
20240229 1603	0.2	93
20240229 1613	1.3	36
20240229 1623	0.2	32
20240229 1633	2.8	95
20240229 1643	0.7	175
20240229 1653	0.1	150
20240229 1703	0.1	66
20240229 1713	0.9	39
20240229 1723	0.2	81
20240229 1733	0.6	64
20240229 1743	0.1	27
20240229 1753	0.2	56
20240229 1803	0.1	314
20240229 1813	0.1	45
20240229 1823	0.1	135
20240229 1833	0.1	275
20240229 1843	0.3	22
20240229 1853	0.1	125
20240229 1903	0.1	253
20240229 1913	0.1	53
20240229 1923	0.2	139
20240229 1933	0.1	248
20240229 1943	0.1	321
20240229 1953	0.1	263
20240229 2003	0.1	199
20240229 2013	0.8	154
20240229 2023	0.9	96
20240229 2033	0.1	273
20240229 2043	0.2	299
20240229 2053	0.6	328
20240229 2103	0.6	136
20240229 2113	0.2	263
20240229 2123	1.5	8
20240229 2133	3.2	307
20240229 2143	0.1	109
20240229 2153	0.1	318
20240229 2203	0.1	99
20240229 2213	0.2	312
20240229 2223	0.1	121
20240229 2233	0.1	65
20240229 2243	2	294
20240229 2253	0.1	309
20240229 2303	1.4	301
20240229 2313	0.3	309
20240229 2323	2.2	24
20240229 2333	0.1	107
20240229 2343	0.7	258
20240229 2353	0.1	263

Appendix J Waste Flow Table

Waste Flow Table

Month	Total Quantity Generated	Total Quantities of Inert C&D Materials to be Generated from the Contract					Total Quantities of Recyclables Generation				Total Quantities of C&D Materials to be Generated from the Contract		
		Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in Other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper / Cardboard Packaging	Plastics	Yard Waste (to Y-Park)	Chemical Waste	General Refuse	Others, e.g. non-recyclable yard waste
	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in '000L)	(in tonne)	(in tonne)
Dec-22	84.77	0	0	0	0	0	0	0	0	11.49	0	7.53	65.75
Jan-23	24.51	0	0	0	0	0	0	0	0	0	0	24.51	0
Feb-23	506.45	0	0	0	0	0	0	0	0	3.16	0	5.85	497.44
Mar-23	9,581.15	0	0	9,187	0	0	0	0	0	3.69	0	6.96	383.5
Apr-23	18,532.07	0	0	18,466	0	0	0	0	0	1.97	0	5.81	58.29
May-23	28,889.61	0	0	28,473	0	0	0	0	0	0	0	7.45	409.16
Jun-23	11,574.89	0	0	11,211	0	0	0	0	0	2.38	0	14.69	346.82
Jul-23	50,595.49	0	0	50,307	0	0	0	0	0	0	0	25.54	262.95
Aug-23	63,178.52	0	0	63,076	0	0	0	0	0	0	0	30.77	71.75
Sep-23	42,709.75	0	0	42,676	0	0	0	0	0	0	0	33.38	0
Oct-23	55,551.68	0	0	55,405	0	0	0	0	0	2.56	0	28.05	116.07
Nov-23	76,127.24	0	0	73,352	0	2629.37	0	0	0	0	0	35.13	110.74
Dec-23	63,389.25	0	0	57,681	0	5296.17	0	0	0	2.48	0	34.26	375.34
Jan-24	125,840.50	0	0	125,010	0	0	0	0	0	5.59	0	71.13	753.78
Feb-24	108,176.42	0	0	106,218	0	1771.16	0	0	0	0	0	53.76	133.17
Total	546,585.88	0.00	0.00	534,844.37	0.00	7,925.54	0.00	0.00	0.00	33.32	0.00	331.06	3,451.59

Note:

1. The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
2. Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

Appendix K Joint Environmental Site Inspection Records

Follow up action for previous Site Inspection:

1. 18 December 2023 Observation 2 – The installation of silt fence at SBA was completed.
2. 29 January 2024 Observation 1 – Stockpiling of dusty material was covered by impervious sheet at SBA.
3. 29 January 2024 Observation 2 – The installation of silt fence at SBA was completed.

Observation(s):




1. The exposed slope area at Portion B2 without covered by impervious sheet is observed.
2. The accumulation of C&D materials at Portion D is observed.
3. The chemical containers at portion D shall be stored and placed in the drip tray.

Reminder(s):

1. General waste shall be collected into the enclosed rubbish bins.

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

1. The contractor has been advised to cover the exposed slope area by impervious sheet for short-term slope protection, and shotcrete for long-term slope protection.
2. The contractor has been reminded to provide enough waste skip for waste storage to avoid waste accumulation.
3. The contractor has been recommended to provide sufficient chemical drip tray for chemical storage to prevent chemical spillage.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/		
Name:	Joan Lo	/	Matt Choy/Kristy Wong	Sylvia Ho
Date:	5 February 2024	/	5 February 2024	5 February 2024

Follow up action for previous Site Inspection:

1. 29 January 2024 Observation 3 – The chemical drip tray was provided at Portion E4 for chemical storage.
2. 5 February 2024 Observation 2 - The accumulated C&D materials at Portion D were removed.
3. 5 February 2024 Observation 3 – The chemical drip tray was provided at Portion D for chemical storage.

Observation(s):




1. The main haul road is dry and fugitive dust is observed at Portion E4 and SBA.

Reminder(s):

1. The stockpiling of dusty material shall be covered by impervious sheet.

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

1. The contractor has been reminded to increase the frequency of watering to ensure that the surface of access road is wetted and to prevent dust dispersion.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/		
Name:	Joan Lo	/	Matt Choy/Kristy Wong	Sylvia Ho
Date:	15 February 2024	/	15 February 2024	15 February 2024

Follow up action for previous Site Inspection:





Waiting for contractor' input.

Observation(s):

1. The chemical containers without stored and placed on the drip tray at portion D and E3-1 is observed.

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

1. The contractor has been advised to provide enough drip tray at portion D and E3-1 for chemical storage to prevent chemical spillage.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:				
Name:	Joan Lo	Echo Hung	Matt Choy/Kristy Wong	Sylvia Ho
Date:	19 February 2024	19 February 2024	19 February 2024	19 February 2024

Follow up action for previous Site Inspection:




1. 19 Feb 2024 Observation 1 – The chemical containers at Portion D and E3-1 were removed.

Observation(s):

1. Unpaved main haul road is dusty and fugitive dust is observed at Portion SBA and Portion E4.
2. The accumulation of deposited silt and grit is observed at Portion A.
3. Oil stain is found in the work area at Portion D and Portion A.
4. The accumulation of general waste and C&D waste is observed at Portion A.
5. The chemical containers at Portion A shall be stored and placed properly.

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

1. The contractor has been advised to increase the frequency of watering to ensure that the unpaved haul road surface is wetted and prevent dust dispersion.
2. The contractor has been recommended to clean up and remove the deposited silt and grit regularly to prevent silt accumulation.
3. The contractor has been reminded to clean up the oil stain immediately and dispose of it as chemical waste. Also, the impervious sheet should be provided during using and placing chemicals.
4. The contractor has been recommended to provide sufficient enclosed bins for general waste disposal and waste skip for C&D waste disposal to separate and dispose the general and construction wastes.
5. The contractor has been advised to provide drip tray for chemical storage to prevent chemical spillage and land contamination.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/		
Name:	Joan Lo	/	Matt Choy/Kristy Wong	Sylvia Ho
Date:	26 February 2024	/	26 February 2024	26 February 2024

Appendix L Environmental Mitigation Implementation Schedule (EMIS)

North East New Territories (NENT) Landfill Extension
Environmental Mitigation Implementation Schedule (EMIS) Construction Phase

EIA Ref.	EM&A Log Ref.	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Air Quality								
S3.8.1	S3.1.8	B7 – B36	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation.	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	Entire NENT Landfill Extension site	To control the dust impact to within the criteria of EIA Report (Register No. AEIAR-111/2007)	✓
		B4, B15 & B18	<ul style="list-style-type: none"> Dust emission from construction vehicle movement is confined within the worksites area. 					✓
		B11 – B12	<ul style="list-style-type: none"> Watering facilities will be provided at every designated vehicular exit point. 					✓
		-	<ul style="list-style-type: none"> Good site practice is recommended during construction phase. 					✓
Construction Noise								
S4	S4.9	C1	1) Use of good site practices to limit noise emissions by considering the following: (a) Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme;	Control construction airborne noise by means of good site practices	Contractor	Entire construction site	Noise Control Ordinance	✓
		C2	(b) Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;					✓
		C3	(c) Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs;					✓
		C4	(d) Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;					N/A
		C5	(e) Mobile plant should be sited as far away from NSRs as possible and practicable;					✓
		C6	(f) Material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.					✓
S4	S4.9	C11 – C13	2) Select “Quiet plants” which comply with the BS 5228 Part 1 or TM standards.	Reduce the noise levels of plant items	Contractor	Entire construction site	Noise Control Ordinance & its TM Annex 5, TM-EIA	✓
Construction Runoff								
S5.8.1	S5.2.1	D1	<u>Construction on Site Runoff</u> <ul style="list-style-type: none"> (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. (b) Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities. 	Control construction runoff and erosion from site surface, drainage channel, stockpiles, wheel washing facilities, etc to minimize water quality during construction stage	Contractor	Entire Construction site	ProPECC PN 1/94 Water Pollution Control Ordinance	(a) The perimeter cut-off drains are establishing in progress (Completion: 98%) (b) # (Refer to Appendix K 26 Feb 2024 Weekly Site Inspection Observation 2)
		D2	<ul style="list-style-type: none"> (a) The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. (b) Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a silt/sediment trap. (c) The sediment/silt traps should be incorporated in the permanent drainage channels to enhance deposition rates. 					(a) N/A (b) ✓ (c) ✓
		D3	<ul style="list-style-type: none"> 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 silts and sediment traps should be 5 minutes under maximum flow conditions. 					✓
		D4	<ul style="list-style-type: none"> (a) Construction works should be programmed to minimize surface excavation works during the rainy seasons (April to September). (b) All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. (c) If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means. 					(a) ✓ (b) ✓ (c) ✓

Remarks:

- ✓ Compliance of mitigation measure
- * Recommendation was made during site audit but improved/rectified by the contractor
- # Recommendation was made during site audit but not yet improved/rectified by the contractor.
- N/A Not Applicable at this stage were conducted in the reporting period.
- @ (Which measure) Alternative measure was made by the contractor.

EIA Ref.	EM&A Log Ref	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Construction Runoff (Cont'd)								
S5.8.1	S5.2.1	D5	<ul style="list-style-type: none"> (a) The overall slope of the site should be kept to a minimum to reduce the erosive potential of surface water flows, and (b) all traffic areas and access roads protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during prolonged periods of inclement weather and the reduction of surface sheet flows. 	Control construction runoff and erosion from site surface, drainage channel, stockpiles, wheel washing facilities, etc to minimize water quality during construction stage	Contractor	Entire Construction site	ProPECC PN 1/94 DSD Technical Circular TC01/2017 Water Pollution Control Ordinance	(a) ✓ (b) N/A
		D6	<ul style="list-style-type: none"> (a) All drainage facilities and erosion and sediment control structures should be regularly inspected and (b) maintained to ensure proper and efficient operation at all times and particularly following rainstorms. (c) Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas. 					(a) ✓ (b) ✓ (c) # (Refer to Appendix K 26 Feb 2024 Weekly Site Inspection Observation 2)
		D7	<ul style="list-style-type: none"> (a) Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. (b) Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities. 					(a) ✓ (b) ✓
		D8	<ul style="list-style-type: none"> Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50 m³ should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system. 					(c) ✓
		D9	<ul style="list-style-type: none"> (a) Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as (b) to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers. 					(a) ✓ (b) ✓
		D10	<ul style="list-style-type: none"> Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes. 					(c) ✓
		D11	<ul style="list-style-type: none"> (a) All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. (b) An adequately designed and sited wheel washing bay should be provided at every construction site exit. (c) Wash-water should have sand and silt settled out and removed at least on a weekly basis (d) to ensure the continued efficiency of the process. (e) 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. 					(a) ✓ (b) ✓ (c) ✓ (d) ✓ (e) ✓
		D12	<ul style="list-style-type: none"> (a) Oil interceptors should be provided in the site drainage system downstream of any oil/fuel pollution sources. (b) The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. (c) A bypass should be provided for the oil interceptors to prevent flushing during heavy rain. 					(a) N/A (b) N/A (c) N/A
		D13	<ul style="list-style-type: none"> Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts. Requirements for solid waste management are detailed in Section 6 of this Report. 					✓
		D14	<ul style="list-style-type: none"> All fuel tanks and storage areas should be provided with docks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearby. 					✓
		D15	<ul style="list-style-type: none"> To prevent pollution risks arising from works area (waste reception area) and haul roads, intercepting bund or barrier along the roadside should be constructed. 					N/A
		D19	<p><u>Sewage Effluent from Workforce</u></p> <ul style="list-style-type: none"> (a) Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. (b) A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance. 					(a) ✓ (b) ✓

Remarks:

- ✓ Compliance of mitigation measure
- * Recommendation was made during site audit but improved/rectified by the contractor
- # Recommendation was made during site audit but not yet improved/rectified by the contractor.
- N/A Not Applicable at this stage were conducted in the reporting period.
- @ (Which measure) Alternative measure was made by the contractor.

North East New Territories (NENT) Landfill Extension
Environmental Mitigation Implementation Schedule (EMIS) Construction Phase

EIA Ref.	EM&A Log Ref	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Construction Runoff (Cont'd)								
S5.8.1	S5.2.1	D20	<ul style="list-style-type: none"> Notices will be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the Project. 	Control sewage effluent arising from the sanitary facilities provided for the on-site construction workforce	Contractor	On-site sanitary facilities	ProPECC PN 1/94	N/A
		-	<ul style="list-style-type: none"> Regular environmental audit on the construction site can provide an effective control of any malpractices and can achieve continual improvement of environmental performance on site. 				DSD Technical Circular TC01/2017	✓
S5.8.1	S5.2.1	D21	<p><u>Accidental Spillage of Chemical</u></p> <ul style="list-style-type: none"> (a) Any service workshop and maintenance facilities shall be located within a bunded area, and sumps and oil interceptors shall be provided. (b) Maintenance of equipment involving activities with potential for leakage and spillage will only be undertaken within the areas. 	Control of chemical leakage	Contractor	Service workshop and maintenance facilities	ProPECC PN 1/94	(a) N/A (b) N/A
Erosion Control Measures								
S5.8.2	S5.2.2	-	<p><u>Erosion Control /Measures</u></p> <p>a. Preserve Natural Vegetation This Best Management Practices will involve preserving natural vegetation to the greatest extent possible during the construction process. and after construction where appropriate. Maintaining natural vegetation is the most effective and inexpensive form of erosion prevention control.</p>	Erosion control	Contractor	Drainage system	ProPECC PN 1/94	✓
		-	<p>b. Provision of Buffer Zone A buffer zone consists of an undisturbed area or strip of natural vegetation or an established suitable planting adjacent to a disturbed area that reduces erosion and runoff. The rooted vegetation holds soils acts as a wind break and filters runoff that may leave the site.</p>				Water Pollution Control Ordinance	✓
		-	<p>c. Seeding (Temporary/Permanent) A well-established vegetative cover is one of the most effective methods of reducing erosion. Vegetation should be established on construction sites as the slopes are finished, rather than waiting until all the grading is complete. Besides, Hydroseeding will be applied on the surface of stockpiled soil and on temporary soil covers for inactive tipping areas to prevent soil erosion during rainy season.</p>				Water Pollution Control Ordinance	✓
		-	<p>d. Ground Cover Ground Cover is a protective layer of straw or other suitable material applied to the soil surface. Straw mulch and/or hydromulch are also used in conjunction with seeding of critical areas for the establishment of temporary or permanent vegetation. Ground cover provides immediate temporary protection from erosion. Mulch also enhances plant establishment by conserving moisture, holding fertilizer, seed, and topsoil in place, and moderating soil temperatures.</p>				Water Pollution Control Ordinance	To be implemented
		-	<p>e. Hydraulic Application Hydraulic application is a mechanical method of applying erosion control materials to bare soil in order to establish erosion-resistant vegetation on disturbed areas and critical slopes. By using hydraulic equipment, soil amendments, mulch, tackifying agents, Bonded Fiber Matrix (BFM) and liquid co-polymers can be uniformly broadcast, as homogenous slurry, onto the soil. These erosion and dust control materials can often be applied in one operation.</p>				Water Pollution Control Ordinance	To be implemented
		-	<p>f. Sod Establishes permanent turf for immediate erosion protection and stabilizes rainageways.</p>				Water Pollution Control Ordinance	✓
		-	<p>g. Matting There are numerous erosion control products available that can be described in various ways, such as matting, blankets, fabric and nets. These products are referred as matting. A wide range of materials and combination of materials are used to produce matting including, but not limited to: straw, jute, wood fiber, coir (coconut fiber), plastic netting, and Bonded Fiber Matrix. The selection of matting materials for a site can make a significant difference in the effectiveness of the Best Management Practices.</p>				Water Pollution Control Ordinance	✓

Remarks:

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North East New Territories (NENT) Landfill Extension
Environmental Mitigation Implementation Schedule (EMIS) Construction Phase

EIA Ref.	EM&A Log Ref	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Erosion Control Measures (Cont'd)								
S5.8.2	S5.2.2		h. Plastic Sheetting Plastic Sheetting will provide immediate protection to slopes and stockpiles. However, it has been known to transfer erosion problems because water will sheet flow off the plastic at high velocity. This is usually attributable to poor application, installation and maintenance.	Erosion control	Contractor	Drainage system	ProPECC PN 1/94 Water Pollution Control Ordinance	✓
		-	i. Dust Control Dust Control is one preventative measure to minimize the wind transport of soil, prevent traffic hazards and reduce sediment transported by wind and deposited in water resources.					✓
Surface Water Drainage System								
S5.8.2	S5.2.2	D22	<ul style="list-style-type: none"> (a) Temporary surface water drainage system will be provided to manage runoff during construction and operation. (b) This system will consist of channels as constructed around the perimeter of the site area. (c) This system will collect surface water from the areas of higher elevations to those of lower elevations and ultimately to the point of discharge. (d) Erosion will therefore be minimised. 	Surface Water Management/ Control run off	Contractor	Surface water system Construction	Water Pollution Control Ordinance TM-water	(a) ✓ (b) ✓ (c) ✓ (d) ✓
	D23	<ul style="list-style-type: none"> (a) The temporary surface water drainage system will include the use of a silt fence around the soil stockpile areas to prevent sediment from entering the system. (b) Regular cleaning will be carried out to prevent blockage of the passage of water flow in silt fence. 	(a) ✓ (b) ✓					
	-	<ul style="list-style-type: none"> Intermediate drainage system will be installed for filled cell/phase. The major purpose of the intermediate drainage system is to prevent the clean surface water run-off from the filled phases coming into contact with the waste mass in active cell and to prevent excessive surface water infiltration through the intermediate cover, thus contribute to increasing volume of leachate. The intermediate drainage system will collect the clean surface water run-off and divert it to the permanent discharge channels connected to the public drainage system. 	N/A					
	-	<ul style="list-style-type: none"> In addition, surface flow from the haul road (especially near the wheel washing facility) will be collected to a dry weather flow interceptor and conveyed to the on-site leachate treatment plant for further treatment. 	N/A					
Waste Management								
S6	WM1	-	<u>C&D Materials</u> <ul style="list-style-type: none"> Implement proper waste management measures during construction phase as stipulated in the Environmental Management Plan (EMP) in accordance with the ETWB TC(W) No. 19/2005 Environmental Management in Construction Sites. 	Good site practice to minimise C&D waste generation and reuse/recycle all C&D on-site as far as possible	Contractor	Entire construction site	Waste Disposal Ordinance ETWB TC(W) No. 19/2005 DEVB TC(W) No. 6/2010	✓
		-	<ul style="list-style-type: none"> Implement a trip-ticket system to ensure that the movement of C&D materials are properly documented and verified in accordance with DEVB TC(W) No. 6/2010. Copies/counterfoils from trip-tickets (with quantities of C&D Materials off-site) should be kept for record purposes. 					✓
		-	<ul style="list-style-type: none"> Appropriate waste management should be implemented in accordance with the ETWB TC(W) No. 19/2005. 					✓
		E4	<ul style="list-style-type: none"> (a) Make provisions in Contract documents to allow and promote the use of recycled aggregates where appropriate. Ensure material balance in terms of excavated C&D materials in the design of NENT landfill extension project. (b) The contract specifications should specify no excavated materials should be removed from the landfill extension site, but should be fully reused. 					(a) ✓ (b) ✓
		E5	<ul style="list-style-type: none"> Careful design, planning and good site management to minimise over-ordering and waste materials such as concrete, mortars and cement grouts. (a)(b) The design of formwork should maximise the use of standard wooden panels so that high reuse levels can be achieved. (c) Alternatives such as steel formwork or plastic fencing should be considered to increase the potential for reuse. 					(a) ✓ (b) ✓ (c) ✓
		E6	<ul style="list-style-type: none"> (a) The Contractor should recycle as much as possible the C&D waste on-site through proper waste segregation on-site. (b) Concrete and masonry should be used as general fill and steel reinforcement bars can be used by scrap steel mills. (c) Proper areas should be designated for waste segregation and storage wherever site conditions permit. (d) Maximise the use of reusable steel formwork to reduce the amount of C&D material. 					(a) ✓ (b) ✓ (c) ✓ (d) ✓

Remarks:

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- * Recommendation was made during site audit but improved/rectified by the contractor
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EIA Ref.	EM&A Log Ref	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Waste Management (Cont'd)								
S6	WM1	E7	<ul style="list-style-type: none"> (a) Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement. On-site sorting and segregation facility of all type of wastes is considered as one of the best practice in waste management and hence, should be implemented in all projects generating construction waste. (b) The sorted public fill and C&D waste should be properly reused. 	Good site practice to minimise C&D waste generation and reuse/recycle all C&D on-site as far as possible	Contractor	Entire construction site	Waste Disposal Ordinance ETWB TC(W) No. 19/2005 DEVB TC(W) No. 6/2010	(a) ✓ (b) ✓
		E8	<ul style="list-style-type: none"> (a) Excavated slope, stockpiled material and bund walls should be covered by tarpaulin until used in order to prevent wind-blown dust during dry weather, and to reduce muddy runoff during wet weather. (b)(c) Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers 					(a) ✓ (b) ✓ (c) ✓
		E9	<ul style="list-style-type: none"> If any topsoil-like materials need to be stockpiled for any length of time, consideration should be given to hydroseeding of the topsoil on the stockpile to improve its visual appearance and prevent soil erosion. 					✓
		E10	<ul style="list-style-type: none"> Nomination of approved personnel to be responsible for good site practices and making arrangements for collection of all wastes generated on-site and effective disposal. 					✓
		E11	<ul style="list-style-type: none"> Training of site personnel for cleanliness, proper waste management procedures including chemical waste handling, and waste reduction, reuse and recycling concepts. 					✓
		E12	<ul style="list-style-type: none"> Regular cleaning and maintenance programme systems, sumps and oil interceptors. 					✓
		E13	<ul style="list-style-type: none"> (a) Prior to disposal of C&D waste, wood, steel and other metals should be separated for re-use and/or recycling to minimise the quantity of waste to be disposed of to landfill. (b)(c) Proper storage and site practices should be implemented to minimise the potential for damage or contamination of construction materials. 					(a) ✓ (b) ✓ (c) N/A
			<ul style="list-style-type: none"> Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. Minimise excessive ordering of concrete, mortars and cement grout by doing careful check before ordering. 					✓
S6	WM2	E16 – E23	<p><u>Chemical Waste</u></p> <ul style="list-style-type: none"> Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. 	Ensure proper disposal of chemical waste generated on-site to minimise the associated hazards on human health and environment	Contractor	Entire construction site	Waste Disposal (Chemical Waste) General Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Waste	✓
		-	<ul style="list-style-type: none"> Plant/equipment maintenance schedule should be designed to optimise maintenance effectiveness and to minimise the generation of chemical wastes. Where possible, chemical wastes (e.g. waste lube oil) should be recycled by licensed treatment facilities 					✓
		E17 & E18	<ul style="list-style-type: none"> Containers used for storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 liters unless the specification has been approved by the EPD. Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Regulation. 					✓
		E19	<ul style="list-style-type: none"> (a) The storage area for chemical wastes should be clearly labelled and used solely for storage of chemical waste, (b) enclosed with at least 3 sides, having an impermeable floor and bund of sufficient capacity to accommodate 110% of volume of the largest container or 20 % of total volume of waste stored in that area, (c)(d) whichever is the greatest, having adequate ventilation, being covered to prevent rainfall entering, and being arranged so that incompatible materials are adequately separated. 					(a) ✓ (b) N/A (c) N/A (d) N/A
		E20	<ul style="list-style-type: none"> Chemical waste should be collected by licensed waste collectors and disposed of at licensed facility, e.g. Chemical Waste Treatment Centre. 					✓

Remarks:
 ✓ Compliance of mitigation measure
 * Recommendation was made during site audit but improved/rectified by the contractor
 # Recommendation was made during site audit but not yet improved/rectified by the contractor.
 N/A Not Applicable at this stage were conducted in the reporting period.
 @ (Which measure) Alternative measure was made by the contractor.

North East New Territories (NENT) Landfill Extension
Environmental Mitigation Implementation Schedule (EMIS) Construction Phase

EIA Ref.	EM&A Log Ref	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Waste Management (Cont'd)								
S6	WM3	E1	<u>General Refuse</u> • General refuse generated on-site should be properly stored in enclosed bins or compaction units separately from construction and chemical wastes.	Minimise generation of general refuse to avoid odour, pest and visual nuisance	Contractor	Entire construction site	Waste Disposal Ordinance	✓
		E2	• (a) All recyclable materials (separated from the general waste) should be stored on-site in appropriate containers with cover prior to collection by a local recycler for subsequent reuse and recycling. Residual, non-recyclable, general waste should be stored in appropriate containers to avoid odour. (b)(c)(d) Regular collection should be arranged by an approved waste collector in purpose-built vehicles that minimise environmental impacts during transportation					(a) ✓ (b) ✓ (c) ✓ (d) ✓
		-	• Reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimise odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law.					✓
		-	• Aluminium cans should be separated from general waste stream and collected by recyclers. Proper collection bins should be provided on-site to facilitate the waste sorting.					✓
		-	• Office waste paper should be recycled if the volume warrant collection by recyclers. Participation in community waste paper recycling programme should be considered by the Contractor, including waste paper, aluminium cans, plastic bottles, waste batteries, etc.					✓
LFG								
Within NENT Landfill Extension								
S7	LFG1	F1	Special LFG precautions should be taken due to close proximity of NENT landfill extension site to existing landfill to avoid potential hazards of LFG exposure (ignition, explosion, asphyxiation, toxicity).	To minimise the risk of LFG hazards to personnel in construction site	Contractor	Entire construction site	Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97) F&IU (Confined Spaces) Regulations Code of Practice on Safety and Health at Work in Confined Spaces	N/A
	LFG2	F2	Prominent safety warning signs should be erected on-site to alert all personnel and visitors of LFG hazards during excavation works.					✓
	LFG3	F3	No smoking or burning should be permitted on-site.					✓
	LFG4	F4	Prominent 'No smoking' and 'No Naked Flames' signs should be erected on-site.					✓
	LFG5	F5	No worker should be allowed to work alone at any time in excavated trenches or confined areas on-site.					✓
	LFG6	F6	Adequate fire fighting equipment should be provided on-site.					✓
	LFG7	F7	Construction equipment should be equipped with vertical exhaust at least 0.6m above ground installed with spark arrestors.					✓
	LFG8	F8	Electrical motors and extension cords should be explosion-proof and intrinsically safe for use on-site.					✓
	LFG9	F9	'Permit to Work' system should be implemented.					✓
	LFG10	F10	Welding, flame-cutting or other hot works should be conducted only under 'Permit to Work' system following clear safety requirements, gas monitoring procedures and presence of qualified persons to supervise the works.					✓
	LFG11	F11	(a) For piping assembly or conduit construction, all valves and seals should be closed immediately after installation to avoid accumulation and migration of LFG. (b) If installation of large diameter pipes (diameter >600mm) is required, the pipe ends should be sealed on one side during installation. (c) Forced ventilation is required prior to operation of installed pipeline. (d) Forced ventilation should also be required for works inside trenches deeper than 1m.					(a) N/A (b) N/A (c) N/A (d) N/A
	LFG12	F12	Frequency and location of LFG monitoring within excavation area should be determined prior to commencement of works. LFG monitoring in excavations should be conducted at no more than 10mm from exposed ground surface.					✓
	LFG13	F13	For excavation works, LFG monitoring should be conducted (1) at ground surface prior to excavation, (2) immediately before workers entering excavations, (3) at the beginning of each half-day work, and (4) periodically throughout the working day when workers are in the excavation.					✓
	LFG14	F14	Any cracks on ground level encountered on-site should be monitored for LFG periodically. Appropriate action should be taken in accordance with the action plan in Table 7.6 of EIA Report.					✓
	LFG15	F15	(a) LFG precautionary measures involved in excavation and piping works should be provided in accordance with LFG Guidance Note and included in Safety Plan of construction phase. (b) Temporary offices or buildings should be located where free LFG has been proven or raised clear of ground at a separation distance of at least 500mm.					(a) N/A (b) N/A

Remarks:

- ✓ Compliance of mitigation measure
- * Recommendation was made during site audit but improved/rectified by the contractor
- # Recommendation was made during site audit but not yet improved/rectified by the contractor.
- N/A Not Applicable at this stage were conducted in the reporting period.
- @ (Which measure) Alternative measure was made by the contractor.

North East New Territories (NENT) Landfill Extension
Environmental Mitigation Implementation Schedule (EMIS) Construction Phase

EIA Ref.	EM&A Log Ref	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
LFG (Cont'd)								
Within NENT Landfill Extension								
S7	LFG16	F16	For large development such as NENT landfill extension, a Safety Officer trained in the use of gas detection equipment and LFG- related hazards should be present on-site throughout the groundwork phase. The Safety Officer should be provided with an intrinsically safe portable instrument appropriately calibrated and capable of measuring the following gases: •CH ₄ : 0-100% and LEL: 0-100%/v •CO ₂ : 0-100% •O ₂ : 0-21%	To minimise the risk of LFG hazards to personnel in construction site	Contractor	Entire construction site	Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97) F&IU (Confined Spaces) Regulations Code of Practice on Safety and Health at Work in Confined Spaces	✓
	LFG17	F17	(a) Periodically during groundwork construction, the works area should be monitored for CH ₄ CO ₂ and O ₂ using appropriately calibrated portable gas detection equipment. The monitoring frequency and areas should be established prior to commencement of groundwork either by Safety Officer or appropriately qualified person. (b) Routine monitoring should be carried out in all excavations, manholes, created by temporary storage of building materials on-site. (c) All measurements in excavations should be made with monitoring tube located not more than 10mm from exposed ground surface.					(a) N/A (b) N/A (c) N/A
	LFG18	F18	For excavations deeper than 1m, measurements should be conducted: • At ground surface before excavation commences; • Immediately before any worker enters the excavation; • At the beginning of each working day for entire period the excavation remains open; and Periodically throughout the working day whilst workers are in excavation.					✓
	LFG19	F19	For excavations between 300mm and 1m, measurements should be conducted: • Directly after excavation has been completed; and Periodic all whilst excavation remains open.					✓
	LFG20	F20	For excavations less than 300mm, monitoring may be omitted at the discretion of Safety Officer or appropriately qualified person.					✓
Landscape and Visual Phases								
S8	LV1	G4	<u>Advanced screening tree planting</u> • Early planting using fast growing trees and tall shrubs at strategic locations within site to block major view corridors to the site from the VSRs, and to locally screen haul roads, excavation works and site preparation works. • Roadside planter and shrub planting design in front of Cheung Shan Temple.	To minimise the impact on existing vegetation retained by personnel in construction To provide initiation on permanent landscape and visual mitigation measures	Contractor	Entire construction site	DEVB TC(W) No. 4/2020 - Tree Preservation DEVB TC(W) No. 6/2015 - Maintenance of Vegetation and Hard Landscape Features DEVB TC(W) No. 6/2011 - Maintenance of Man-made Slopes and Emergency Repair on Stability of Land	✓
S8	LV2	G5	<u>Boundary Green Belt planting</u> Considerable planting belts proposed around the site perimeter and the construction of temporary soil bunds will screen the landfill operations to a certain degree. Fast growing and fire resistant plant species will be used.					To be implemented during operation phase
S8	LV3	G6	<u>Temporary landscape treatment as green surface cover</u> For certain areas where landfilling operations would have to be suspended temporarily for periods of years, simple temporary landscape treatment such as hydroseeding should be considered. During construction and operational phases, grass hydroseeding or synthetic covering material of green colour should also be used as a temporary slope cover if applicable.					✓
S8	LV4	G7	<u>Existing tree preservation</u> Transplant existing trees and vegetation, which are identified as ecologically significant in Ecological Impact Assessment and as rare tree species recorded in the tree survey, under circumstances where technically feasible. For all affected trees, the principle of avoidance of tree felling and tree transplanting of tree before felling should apply whenever possible. A tree felling application should be submitted to DEVB-GLTMS and be approved before any trees are felled or transplanted.					✓

Remarks:

- ✓ Compliance of mitigation measure
- * Recommendation was made during site audit but improved/rectified by the contractor
- # Recommendation was made during site audit but not yet improved/rectified by the contractor.
- N/A Not Applicable at this stage were conducted in the reporting period.
- @ (Which measure) Alternative measure was made by the contractor.

North East New Territories (NENT) Landfill Extension
Environmental Mitigation Implementation Schedule (EMIS) Construction Phase

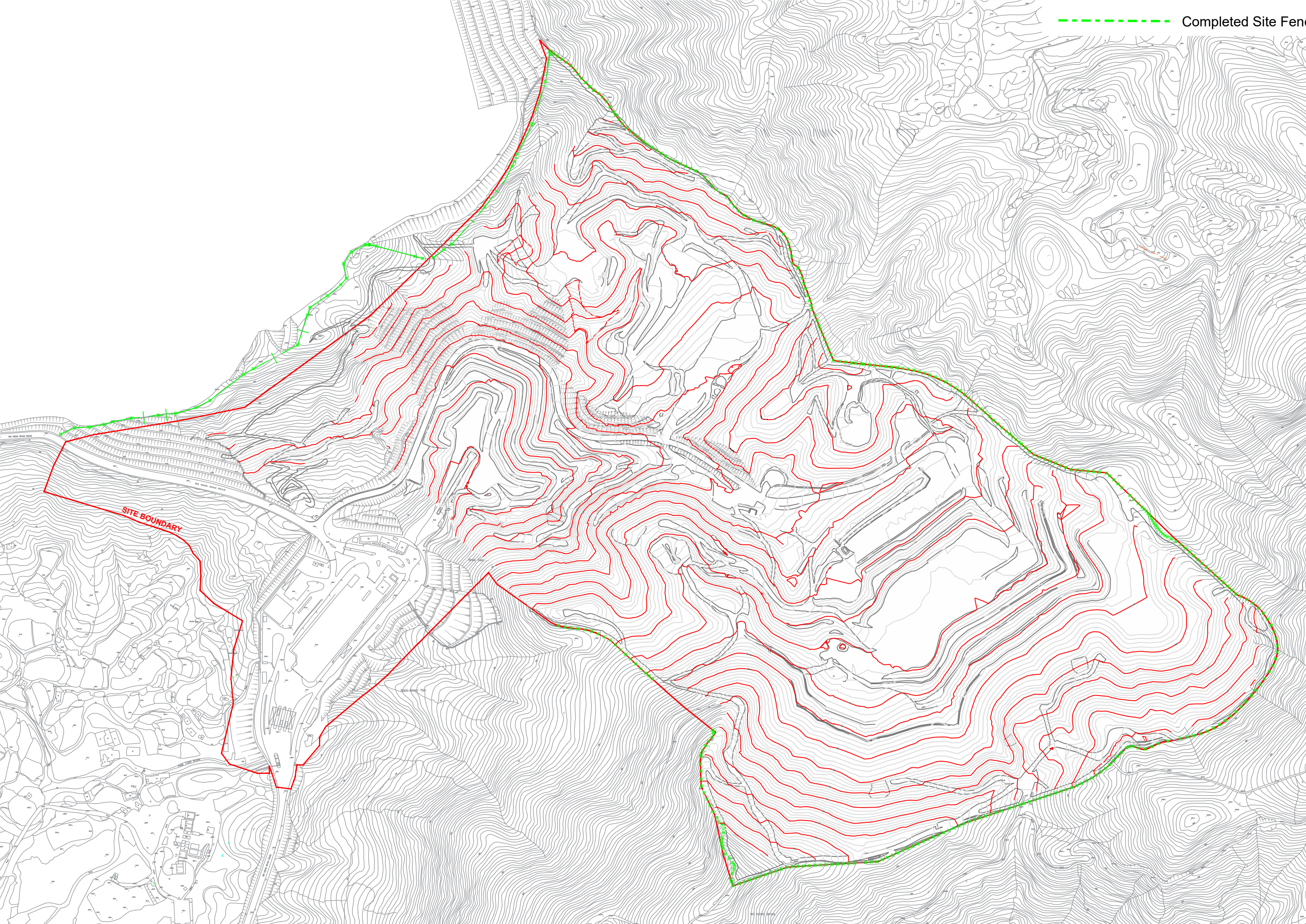
EIA Ref.	EM&A Log Ref	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Ecology								
General Protection Measures:								
S10	E1	-	Restriction of construction activities to the work areas that would be clearly demarcated.	To minimise environmental impacts and therefore potential ecological impacts within and near the construction site	Contractor	Entire construction site	Practice Note for Professional Persons (ProPECC), Construction Site Drainage (PN1/94)	✓
	E2	-	Reinstatement of the work areas immediately after completion of the works.					✓
	E3	-	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme.					✓
	E4	-	Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.					✓
	E5	-	Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs.					✓
	E6	-	Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works.					N/A
	E7	-	Mobile plant should be sited as far away from NSRs as possible and practicable.					✓
	E8	-	Material stockpiles, site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.					✓
	E9	-	Use of "quiet" plant and working methods.					✓
	E10	-	Construction phase mitigation measures in the Practice Note for Professional Persons on Construction Site Drainage.					✓
	E11	-	Design and set up of the temporary on-site drainage system will be undertaken by the contractor prior to the commencement of construction.					✓
	E12	-	Design and incorporation of silt/sediment traps in the permanent drainage channels to enhance deposition rates and regular removal of repositied silt and grit.					✓
	E13	-	Minimization of surface excavation works during the rainy seasons (April to September), and in particular, control of silty surface runoff during storm events, especially for areas located near steep slopes.					✓
	E14	-	Regular inspection and maintenance of all drainage facilities and erosion and sediment control structures to ensure proper and efficient operation at all times and particularly following rainstorms.					✓
	E15	-	Provision of oil interceptors in the drainage system downstream of any oil/fuel pollution sources					N/A

Remarks:

- ✓ Compliance of mitigation measure
- * Recommendation was made during site audit but improved/rectified by the contractor
- # Recommendation was made during site audit but not yet improved/rectified by the contractor.
- N/A Not Applicable at this stage were conducted in the reporting period.
- @ (Which measure) Alternative measure was made by the contractor.

Appendix M Mitigation Measures of Cultural Landscape Features

----- Completed Site Fencing



Appendix N Cumulative Complaint / Enquiry Log, Summaries of Complaints and Enquiries

Environmental Complaints Log

Complaint Ref. No.	Date of Complaint Received	Received from	Received by	Aspect of Complaint	Date of Investigation	Investigation Summary & Conclusion	Date of Reply
C001_20221220	21 Dec 2022	Veolia (Contractor)	ET	Air Quality (Construction Dust)	5, 12 & 19 Dec 2022	It was noted from Veolia's email to the ET on 20 December 2022 that Veolia received complaint lodged regarding presenting much dusty materials at roundabout at Wo Keng Shan Road & dusty flying problem at Kowloon-bound traffic at Lung Shan Tunnel. No dusty materials and wastes were transported out from the NENTX site during the complaint period. During the regular weekly site inspection on 5, 12 & 19 December 2022, it was observed that the wheel washing facilities with high-pressure water jets have been provided at all site exits of NENTX and cleaned all vehicles before allowing them to leave the construction site to ensure that no mud or debris would be brought to the public area. All site vehicles of NENTX are also required to go through the auto wheel washing facility, which is managed by the operator of the NENT landfill, before entering the public area. The road section between the washing facilities and the exit point was paved with concrete, or bituminous materials were implemented in all site entrances. No mud generated from vehicles under the NENTX project after exiting the site entrance was observed. In conclusion, there is no direct evidence showing that the complaint is likely related to the NENTX project.	5 Jan 2023
C002_20230614	14 Jun 2023	EPD-RNG	ET	Water Quality	16, 21 Jun, 24, 25 Jul & 2 Aug 2023	It was noted from EPD-RNG's email to the ET on 14 Jun 2023 that EPD received complaint lodged regarding the muddy water was observed at Lin MA Hang International Bridge. In summary of the investigation, the pollutant water appeared crimson colour with bubbles at the LMH-OP01 (Monitoring Point from EPD). The colour and pattern of pollutant water is different from the runoff at surface WQM monitoring location WM1. Hence, the project is not the major source causing the pollutant water. To minimise the potential impact of the project, the enhancement of mitigation measures at north boundary were advised to implement by contractor. The related rectified actions had been conducted by the contractor.	29 Jun & 21 Aug 2023

Complaint Ref. No.	Date of Complaint Received	Received from	Received by	Aspect of Complaint	Date of Investigation	Investigation Summary & Conclusion	Date of Reply
C003_20230615	15 Jun 2023	EPD-RNG	ET	Water Quality	16, 19, 21 Jun, 18 Jul 2023	It was noted from EPD-RNG's email to the ET on 15 June 2023 that EPD received information regarding the muddy water was observed at River Ganges (GR3) (Water Quality Monitoring Location from EPD). In summary of the investigation, the muddy water caused from multi-potential sources while the runoff from the box culvert under the Wo Keng Shan Road is the major source including runoff from Existing channel near Portion E3-1, discharge water from the silt removal facilities at Portion E3-1 of the project, runoff from branch near the entrance of Portion E3-1, runoff from weighting plaza of NENT Landfill & natural stream near Wo Keng Shan & Shui Ngau Tso etc.. Hence, the project is a part of factor causing the high turbidity muddy water. To minimise the potential impact of construction runoff from the project, the further mitigation measures and enhancement of the temporary surface water drainage system were advised to implement by contractor. The related rectified actions had been conducted by the contractor.	15 Jun, 21 Aug 2023
C004_20230803	3 Aug 2023	EPD-RNG	ET	Water Quality	18 Jul 2023	It was noted from EPD-RNG's email to the ET on 3 Aug 2023 that EPD received information regarding the muddy water was observed at River Ganges (GR3) (Water Quality Monitoring Location from EPD). In summary of the investigation, the muddy water caused from multi-potential sources while the runoff from the box culvert under the Wo Keng Shan Road is the major source including runoff from Existing channel near Portion E3-1, discharge water from the silt removal facilities at Portion E3-1 of the project, runoff from branch near the entrance of Portion E3-1, runoff from weighting plaza of NENT Landfill & natural stream near Wo Keng Shan & Shui Ngau Tso etc.. Hence, the project is a part of factor causing the high turbidity muddy water. To minimise the potential impact of construction runoff from the project, the further mitigation measures and enhancement of the temporary surface water drainage system were advised to implement by contractor. The related rectified actions had been conducted by the contractor.	14 Aug 2023

Complaint Ref. No.	Date of Complaint Received	Received from	Received by	Aspect of Complaint	Date of Investigation	Investigation Summary & Conclusion	Date of Reply
C005_20230818	18 Aug 2023	EPD-RNG	ET	Water Quality	18 Sep 2023	It was noted from EPD-RNG's email to the ET on 18 August 2023 that EPD received information regarding the muddy water was observed at River Ganges (GR3) (Water Quality Monitoring Location from EPD) on 14 August 2023. In summary of the investigation, the complaint is project related. It viewed that muddy water arising from wheel washing water from the site entrance at Portion E4 & Runoff from Existing Channel near Portion E3-1 & discharge water from the silt removal facilities at Portion E3-1 eventually flows into the box culvert under Wo Keng Shan Road, WM2 and ultimately to GR3. The related rectified actions had been conducted by the contractor.	13 October 2023
C006_20230914	14 Sep 2023	EPD-RNG	ET	Water Quality	18 Sep 2023	It was noted from EPD-RNG's email to the ET on 14 September 2023 that EPD received information regarding the muddy water was observed at River Ganges (GR3) (Water Quality Monitoring Location from EPD) on 11 September 2023. In summary of the investigation, the complaint is project related. It viewed that muddy water arising from wheel washing water from the site entrance at Portion E4 & Runoff from Existing Channel near Portion E3-1 & discharge water from the silt removal facilities at Portion E3-1 eventually flows into the box culvert under Wo Keng Shan Road, WM2 and ultimately to GR3. The related rectified actions had been conducted by the contractor.	13 October 2023

Remarks:

1. "ET" equal to "Environmental Team"
2. "EPD-RNG" equal to "Environmental Protection Department-Regional Office (North)"
3. "TBC" equal to "To Be Confirm"

Environmental Enquiries Log

Enquiry Ref. No.	Date of Enquiry Received	Received from	Received by	Aspect of Complaint	Date of Investigation	Investigation Summary & Conclusion	Date of Reply
NA	NA	NA	NA	NA	NA	NA	NA

Remarks:

1. "ET" equal to "Environmental Team"
2. "EPD-RNG" equal to "Environmental Protection Department-Regional Office (North)"
3. "NA" equal to "Not Applicable"

Cumulative Statistics on Complaints

Aspects	Cumulative No. Brought Forward	No. of Complaints during reporting period	Cumulative Project-to-Date
Air Quality	1*	0	1*
Noise	0	0	0
Water Quality	5(1*)	0	5(1*)
Waste Management	0	0	0
Total	6(2*)	0	6(2*)

Remarks:

1. * Equal to non-project related

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to life*



Portion A - Temporary Drainage updated on 5 Feb 2023

NOTES

1. ALL DIMENSIONS ARE IN MM UNLESS STATED OTHERWISE.
2. ALL LEVELS REFER TO HONG KONG PRINCIPAL DATUM (MPD) UNLESS STATED OTHERWISE.
3. ALL ALIGNMENTS OF THE EXISTING DRAINAGE SYSTEM AS SHOWN ON THE DRAWINGS ARE INDICATIVE ONLY. THE EXACT LEVEL AND LOCATION OF EXISTING DRAINAGE SYSTEM SHALL BE DETERMINED BY THE CONTRACTOR ON SITE AND AGREED BY THE ENGINEER/ARCHITECT.
4. THE LOCATION OF THE PROPOSED CATCHPIT MANHOLES AND ALIGNMENTS SHOWN ON DRAWINGS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS AND ALIGNMENTS AND MANHOLES ARE TO BE DETERMINED ON SITE BY THE ENGINEER / ARCHITECT. THE ORIENTATION OF PIPES AND MANHOLES, THE NUMBER OF CONNECTING PIPES ARE INDICATIVE ONLY AND SAHLL BE DETERMINED AND AGREED WITH ENGINEER / ARCHITECT ON SITE.
5. SHOTCRETE SOIL PROTECTION SHALL BE PROVIDED TO PREVENT SOIL EROSION.
6. SLOPE STABILITY SHALL BE UNDER SEPARATE SUBMISSION.
7. UC SHALL BE TRAPEZOIDAL CHANNEL.
8. FOR SUMP PIT DETAILS, REFER TO CEDD STANDARD DRAWING NO. C 2406. THE SAND TRAP SHALL BE PROVIDED TO THE SUMP PIT.
9. FOR CATCHPIT DETAILS, REFER TO CEDD STANDARD DRAWING NO. C 2405.
10. FOR DETAILS OF uPVC PIPE SHALL FOLLOW THE MANUFACTURER CATALOG.
11. FOR PIPE BEDDING, REFER TO DSD STANDARD DRAWING NO. DS 1049B.
12. TEMP. BUND SHALL BE FORMED BY SANDBAGS OR EXCAVATED FILL / ROCK WITH 50mm HEIGHT OR EQUIVALENT TO INTERCEPT SURFACE RUNOFF.
13. CHANNEL GRADIENTS AS INDICATED ARE THE MINIMUM VALUES ONLY.

ENVIRONMENTAL PROTECTION DEPARTMENT

SIGNED: _____
FOR ENVIRONMENTAL PROTECTION DEPARTMENT

DATE: _____

MEINHARDT INFRASTRUCTURE AND ENVIRONMENT LTD
VERIFICATION BY INDEPENDENT CONSULTANTS

SIGNED: _____
FOR MEINHARDT INFRASTRUCTURE AND ENVIRONMENT LTD

DATE: _____

LEGEND

- Finished Temporary Drainage
- - - Proposed Temporary Drainage
- Finished Temporary Bund
- Slope Surface Protection (Visual mitigation)
- Slope Surface Protection (Cement slurry)
- - - Pumping route

I 03	THIRD SUBMISSION ISSUED	JT	JAN 2023	DSJS
I 02	SECOND SUBMISSION ISSUED	CC	NOV 2022	DSJS
I 01	FIRST SUBMISSION ISSUED	CC	JUN 2022	DSJS

DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE.
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Wastewater treatment facility (discharge to existing channel according to approved WPCO permit after treatment)

Check	TL
Approved	DSJS

Date: 19 JAN 2023 Scale: 1:500 @ A3

Contract: **CONTRACT EP/SP/77/15**
NORTH EAST NEW TERRITORIES LANDFILL EXTENSION (NENTX)

Environmental Protection Department
The Government of the Hong Kong Special Administrative Region

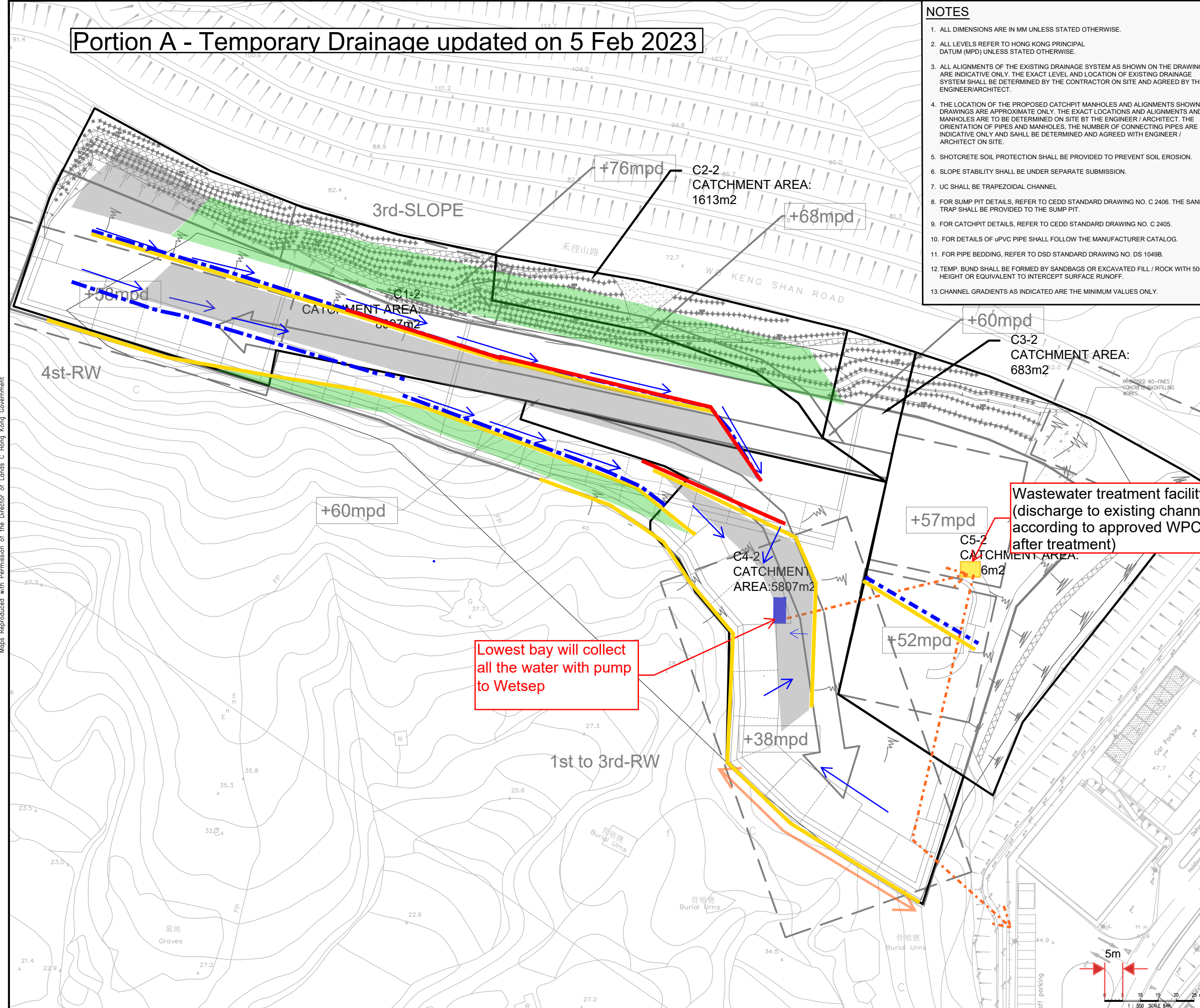
VEOLIA

Civil Contractor
Paul Y 保華建業
Paul Y. Engineering

Supported by
ATKINS
Member of the SNC-Lavalin Group

Drawing Title
PORTION A TEMPORARY DRAINAGE CATCHMENT PLAN - STAGE 2

Drawing No. **NENTX-ATKI-DW-C-A-182** Rev. **1 03**



Maps Reproduced with Permission of the Director of Lands C Hong Kong Government

PART I Follow-up status of the previous site inspection

Observation and Recommendation	Follow-up status
<p>18 December 2023 Observation 2</p>  <p>Insufficient silt fence around the stockpile area at SBA is observed. The contractor has been advised to provide and maintain sufficient silt fence around the stockpile area in each layer, ensuring that each layer effectively prevents sediment from entering the surface water drainage system.</p>	  <p>Temporary silt fence was provided at SBA.</p> <p>02/01/2024</p> 

08/01/2024



15/01/2024




Part of the exposed slope surface at SBA was shotcreted.





The installation of silt fence at SBA was completed.

Observation and Recommendation	Follow-up status
<p>29 January 2024 Observation 1</p>  <p>Stockpiling of dusty material without covered by impervious sheet at SBA is found. The contractor has been recommended that dusty materials should be covered by impervious sheet to prevent dust dispersion.</p>	 <p>Stockpiling of dusty material was covered by impervious sheet at SBA.</p>
<p>29 January 2024 Observation 2</p>  <p>Insufficient silt fence around the soil stockpiling area at SBA is observed. The contractor has been advised to provide sufficient silt fence around the soil stockpiling area to prevent sediment from entering the system.</p>	 <p>The installation of silt fence at SBA was completed.</p>



Observation and Recommendation	Follow-up status
<p data-bbox="132 232 472 262">29 January 2024 Observation 3</p>  <p data-bbox="132 777 791 896">The oil drum and chemical containers without chemical drip tray at Portion E4 is found. The contractor has been reminded to provide the sufficient drip tray for chemical storage to avoid chemical spillage and land contamination.</p>	<p data-bbox="991 533 1257 562" style="text-align: center;">Waiting for contractor' input</p>

PART II Observation and recommendation identified during the environmental site inspection

Observation and Recommendation	Follow-up status
 <p>The exposed slope area at Portion B2 without covered by impervious sheet is observed. The contractor has been advised to cover the exposed slope area by impervious sheet for short-term slope protection, and shotcrete for long-term slope protection.</p>	
 <p>The accumulation of C&D materials at Portion D is observed. The contractor has been reminded to provide enough waste skip for waste storage to avoid waste accumulation.</p>	

Observation and Recommendation	Follow-up status
 <p>The chemical containers at portion D shall be stored and placed in the drip tray. The contractor has been recommended to provide sufficient chemical drip tray for chemical storage to prevent chemical spillage.</p>	

PART III Temporary Surface Water Drainage System (TSWDS) Photo Record during the environmental site inspection

Slope protection at Portion E4	TSWDS at Portion A
	
TSWDS at Portion A	TSWDS at Portion A
	
Branch from Portion A	Box culvert near WM2
	

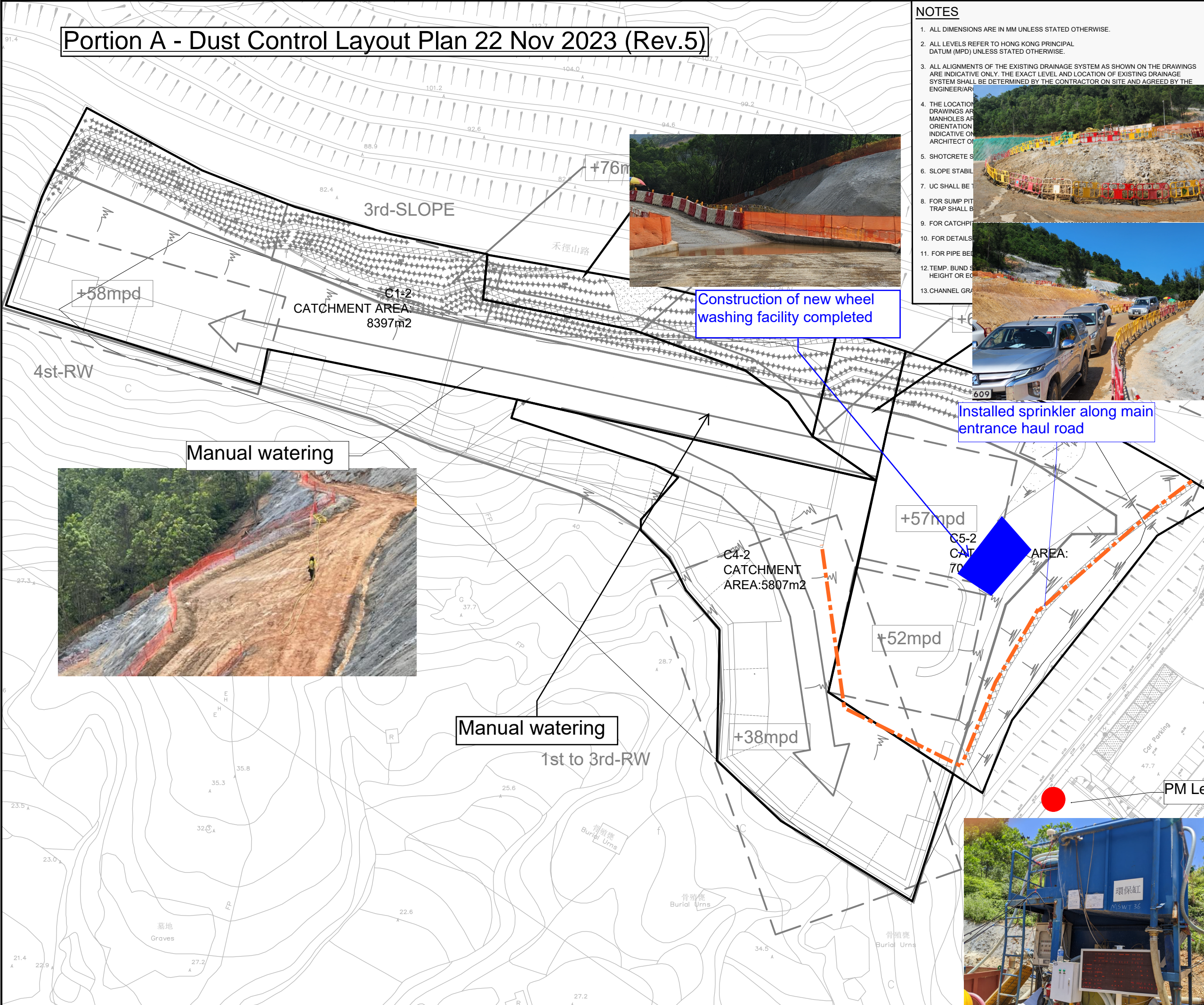
PART III Temporary Surface Water Drainage System (TSWDS) Photo Record during the environmental site inspection

<p>Sedimentation Basin at Portion B1</p>  A photograph showing a sedimentation basin under construction. The basin is a large, shallow concrete structure with a green tarp covering a section of the interior. The surrounding area is a construction site with a dirt road, a forklift, and some construction materials. The background shows a wooded area.	<p>Existing Channel at Portion E3-1</p>  A photograph showing an existing channel at Portion E3-1. The channel is a concrete structure with a red and white striped pipe running along its length. The channel is surrounded by a concrete wall and a dirt embankment. The background shows a wooded area.
<p>Temporary drainage system at Portion E3-1</p>  A photograph showing a temporary drainage system at Portion E3-1. The system is a concrete structure with a blue crane lifting a large pipe into place. The system is surrounded by a concrete wall and a dirt embankment. The background shows a wooded area.	

PART III Temporary Surface Water Drainage System (TSWDS) Photo Record during the environmental site inspection

<p>Silt Fence with temporary ditch at SBA</p> 	<p>Silt Fence with temporary ditch at SBA</p> 
<p>Sedimentation Basin at Portion B1</p> 	

Portion A - Dust Control Layout Plan 22 Nov 2023 (Rev.5)



NOTES

1. ALL DIMENSIONS ARE IN MM UNLESS STATED OTHERWISE.
2. ALL LEVELS REFER TO HONG KONG PRINCIPAL DATUM (MPD) UNLESS STATED OTHERWISE.
3. ALL ALIGNMENTS OF THE EXISTING DRAINAGE SYSTEM AS SHOWN ON THE DRAWINGS ARE INDICATIVE ONLY. THE EXACT LEVEL AND LOCATION OF EXISTING DRAINAGE SYSTEM SHALL BE DETERMINED BY THE CONTRACTOR ON SITE AND AGREED BY THE ENGINEER/ARCHITECT.
4. THE LOCATION DRAWINGS ARE MANHOLES AND ORIENTATION INDICATIVE ONLY.
5. SHOTCRETE SLOPE STABILIZATION SHALL BE APPLIED TO ALL EXPOSED SLOPES.
6. SLOPE STABILIZATION SHALL BE APPLIED TO ALL EXPOSED SLOPES.
7. UC SHALL BE APPLIED TO ALL EXPOSED SLOPES.
8. FOR SUMP PIT TRAP SHALL BE APPLIED TO ALL EXPOSED SLOPES.
9. FOR CATCHPITS SHALL BE APPLIED TO ALL EXPOSED SLOPES.
10. FOR DETAILS SHALL BE APPLIED TO ALL EXPOSED SLOPES.
11. FOR PIPE BEHIND SHALL BE APPLIED TO ALL EXPOSED SLOPES.
12. TEMP. BUND SHALL BE APPLIED TO ALL EXPOSED SLOPES.
13. CHANNEL GRADES SHALL BE APPLIED TO ALL EXPOSED SLOPES.



Construction of new wheel washing facility completed



Installed sprinkler along main entrance haul road



Manual watering

Manual watering

ENVIRONMENTAL PROTECTION DEPARTMENT

SIGNED: _____
FOR ENVIRONMENTAL PROTECTION DEPARTMENT
DATE: _____

MEINHARDT INFRASTRUCTURE AND ENVIRONMENT LTD VERIFICATION BY INDEPENDENT CONSULTANTS

SIGNED: _____
FOR MEINHARDT INFRASTRUCTURE AND ENVIRONMENT LTD
DATE: _____

LEGEND

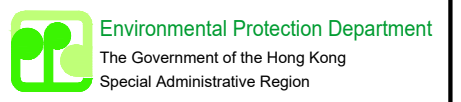
--- Sprinkler alignment

I 03	THIRD SUBMISSION ISSUED	JT	JAN 2023	DSJS
I 02	SECOND SUBMISSION ISSUED	CC	NOV 2022	DSJS
I 01	FIRST SUBMISSION ISSUED	CC	JUN 2022	DSJS
Rev.	Description	By	Date	Approved

DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE VERIFIED ON SITE.
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Drawn	JT	Check	TL
Design	TL	Approved	DSJS
Date	19 JAN 2023	Scale	1:500 @ A3

Contract
CONTRACT EP/SP/77/15
NORTH EAST NEW TERRITORIES
LANDFILL EXTENSION (NENTX)



Civil Contractor
PM Level Sensor (in trial)
Paul Y. Engineering

Supported by
ATKINS
Member of the SNC-Lavalin Group

Working Title
Portion A
Dust Control Layout Plan

Working No.	NENTX-ATKI-DW-C-A-182	Rev.	I 03
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Maps Reproduced with Permission of the Director of Lands C Hong Kong Government

Dust Control Layout for Landfilling Area December 2023 (rev.4)

↔ Routing of water truck
 - - - Sprinkler

Water truck routing
 (Frequency depends on weather;
 approx. 6 times per day)



Dust control sprinklers all installed along the Haul Road



Mist Cannon
 (using recycle water)



Set up of sprinklers completed.
 Recycle water system set up for manual spraying completed.

Wheel Washing Facility (SBA)
 (2" pump standby for cleaning)
 (Cleaning frequency depends on usage and site situation; approx. once per week)

Hard paving of haul road

Set up of sprinklers completed
 Damaged sprinkler will be reinstall after slope surface restate.



Wheel Washing Facility (E3)
 (2" pump standby for cleaning)
 (Cleaning frequency depends on usage and site situation; approx. once per week)



Mist Cannon

Set up of sprinklers scheduled completed for main haul road



平原河
 PING YUEN RIVER

水牛槽
 SHUI NGAU TSO

石寨下
 Shek Tsai Ha

昂塘
 Ngong Tong