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

Monthly Environmental Monitoring and Audit Report (No. 23) – October 2024

2024-11-11

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Our Ref.: CL/91823/1857-VES
Date: 12 November 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

Dear Sir

Re: Contract No. EP/SP/77/15
North-East New Territories Landfill Extension (NENTX)
Monthly Environmental Monitoring and Audit Report (No.23) – October 2024

I refer to Condition 3.3 under Environmental Permit No. EP-292/2007 and Further Environmental Permit No. 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.23) – October 2024" dated 11 November 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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Unit 1608, 16/F, Tower B,
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Ref: P521530-0000-REP-NN-0097

By Email

12 November 2024

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.23) – October r1

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.23) – October 2024 r1" dated 11 November 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

Fredrick Leong
Environmental Team Leader

Encl.
1. Monthly Environmental Monitoring and Audit Report (No.23) – October 2024 r1

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

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Title	Associate Director, Environmental	Title	Environmental Team Leader

Contents

Executive Summary **1**
1. Introduction **3**
2. Project Information **5**
3. Air Quality Monitoring **10**
4 Noise Monitoring **19**
5 Water Quality Monitoring **24**
6 Waste Management **33**
7 Landfill Gas Monitoring **34**
8 Landscape and Visual **38**
9 Cultural Heritage **39**
10 Ecological Monitoring **40**
11 Site Inspection and Audit **41**
12 Environmental Non-conformance **44**
13 Implementation Status on Environmental Mitigation Measures **47**
14 Future Key Issues **48**
15 Conclusion **49**

Figure

Figure 1 Location of the Project Site
Figure 2 Impact Air Quality, Noise & Surface Water Monitoring Locations
Figure 3 Landfill Gas Monitoring Locations

Appendix

Appendix A Construction Programme & Construction Site Activities
Appendix B Project Organization Chart & Management Structure
Appendix C Detail Status of FEP & EP Submission
Appendix D Monitoring Schedule for Reporting Month & Next Month
Appendix E Calibration Certificates
Appendix F Monitoring Results
Appendix G Graphical Presentations
Appendix H Notification of Environmental Quality Limits Exceedance
Appendix I Wind Data
Appendix J Waste Flow Table
Appendix K Joint Environmental Site Inspection Records
Appendix L Environmental Mitigation Implementation Schedule (EMIS)
Appendix M Mitigation Measures of Cultural Landscape Features
Appendix N Cumulative Complaint / Enquiry Log, Summaries of Complaints and Enquiries

Executive Summary

ES1. 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.

ES2. The construction phase and EM&A programme of the Project commenced on 1 December 2022.

ES3. This 23rd Monthly EM&A Report presents the EM&A works conducted from 1 to 31 October 2024 in accordance with the Updated EM&A Manual.

Summary of Construction Works undertaken during Report Period

ES4. The major construction works undertaken during the reporting period include:

ES Table1 Major Construction Works undertaken during the Reporting Period

-	Material loading and unloading, backfilling of material and 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, B2/E1, E3-1 & E4
-	Tree felling at whole site
-	Shotcreting (Permanent and Temporary) at whole site
-	Soil nail installation at Portion A, B2/E1 & E4

Environmental Monitoring and Audit Progress

ES5. A summary of the monitoring activities in this reporting period is listed below:

ES Table2 Summary of the Monitoring Activities during the Reporting Period

	Items	Times	Date
-	Air Quality Monitoring during normal weekdays at each monitoring station	6 times	4, 9, 14, 19, 25 & 31 October 2024
-	Construction Noise Monitoring during normal weekdays at each monitoring station	4 times	9, 14, 25 & 31 October 2024
-	Surface Water Quality Monitoring during normal weekdays at each monitoring station	1 time	9 October 2024
-	Landfill Gas Monitoring during normal weekdays for Construction Works	25 times	2 to 5, 7 to 10, 12, 14 to 19, 21 to 26, 28 to 31 October 2024
-	Joint Environmental Site Inspection	4 times	7, 14, 21 & 28 October 2024

Environmental Exceedance

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

ES6. 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

ES7. No non-compliance event, complaint and summons/prosecutions were recorded during the reporting period.

Reporting Change

ES8. There was no reporting change in the reporting period.

Future Key Issues

ES9. Works to be undertaken in the next month include:

ES Table3 Major Construction Works undertaken during the Next Reporting Period

-	Material loading and unloading, backfilling of material and 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, B2/E1, E3-1 & E4
-	Tree felling at whole site
-	Shotcreting (Permanent and Temporary) at whole site
-	Soil nail installation at Portion A, B2/E1 & E4

ES10. 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. The Updated EM&A Manual was approved by Director of Environmental Protection (DEP) on 4 January 2024.

1.1.3 In accordance with the requirements specified in Section 2.7 to 2.11 and Section 12.3 of the Updated EM&A Manual and Condition 3.3 of EP and FEP, Monthly EM&A report should be submitted to 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	The Project mainly consists of the followings: - 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: - 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 23rd 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 31 October 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**. The major construction works undertaken during the reporting period is presented in **Table 2-1**.

Table 2-1 Major Construction Works undertaken during the Reporting Period

-	Material loading and unloading, backfilling of material and 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, B2/E1, E3-1 & E4
-	Tree felling at whole site
-	Shotcreting (Permanent and Temporary) at whole site
-	Soil nail installation at Portion A, B2/E1 & E4

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 2-2**.

Table 2-2 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 EP & FEP during reporting period

2.3.1 The status of statutory environmental compliance with the EP & FEP conditions under the EIAO, submission status under the EP & FEP during reporting period are presented in **Table 2-3**. The detail status of statutory environmental compliance with the EP & FEP conditions under the EIAO, submission status under the EP & FEP for NENTX project are shown in **Appendix C**.

Table 2-3 Status of Submissions required under the EP & FEP during Reporting Period

EP Condition	FEP Condition	Submission / Measures	Status
2.3	2.1	Management Organization of Main Construction Companies	Submitted
2.4	2.2	Setting up of Community Liaison Group (CLG)	Community Liaison Group was set up.
2.5	2.3	Submission of EM&A Manual	Submitted
2.6	2.4	Submission of Preservation of Cultural Landscape Features	Submitted
2.7	2.5	Submission of Vegetation Survey (Transplantation Proposal)	Submitted
2.8	2.6	Submission of Translocation Proposal	Submitted
2.9	2.7	Submission of Transplantation Report and Post-Transplantation Monitoring	Submitted
2.10	2.8	Submission of Translocation Report and Post-Translocation Monitoring	Submitted
2.11	2.9	Submission of Detailed Landfill Gas Hazard Assessment Report	Submitted
2.12	2.10	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 EP & FEP is presented in **Table 2-4**.

Table 2-4 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
Construction Noise Permit	GW-RN1050-24	18 December 2024	Permit granted on 6 September 2024
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 **Table2-5**.

Table 2-5 Summary of the Monitoring Activities in this Reporting Period

Items	Times	Date
- Air Quality Monitoring during normal weekdays at each monitoring station	6 times	4, 9, 14, 19, 25 & 31 October 2024
- Construction Noise Monitoring during normal weekdays at each monitoring station	4 times	9, 14, 25 & 31 October 2024
- Surface Water Quality Monitoring during normal weekdays at each monitoring station	1 time	9 October 2024
- Landfill Gas Monitoring during normal weekdays for Construction Works	25 times	2 to 5, 7 to 10, 12, 14 to 19, 21 to 26, 28 to 31 October 2024
- Joint Environmental Site Inspection	4 times	7, 14, 21 & 28 October 2024

Air Quality

2.5.2 6 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

2.5.3 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

2.5.4 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

2.5.5 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

2.5.6 25 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

2.5.7 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

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

Ecology

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

Environmental Site Inspection

2.5.10 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 21 October 2024. The Contractor has generally implemented part of the mitigation measures as recommended. No general site inspections were 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 Updated 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 Updated 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)3to 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)	17 Dec 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-5025A (S/N: 3465)	15 Jan 2025	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, µg/m³ (Range)		
	Dust Monitoring Station		
	AM1	AM2	AM3
Oct 2024	24 (18 – 31)	38 (31 – 44)	46 (38 – 56)
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/m³ (Range)		
	Dust Monitoring Station		
	AM1	AM2	AM3
Oct 2024	114 (104 – 126)	122 (114 – 136)	127 (119 – 137)
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	
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

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

3.1.7.2 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	• 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	• 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	• Rectify any unacceptable practice • Amend working methods if appropriate
Exceedance for two or more consecutive samples	• 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	• 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	• 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	• 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	• 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	• 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	• 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	• 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	• 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 Updated EM&A manual, noise impact monitoring shall be carried out at 2 monitoring stations NM1a and NM2a 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 $_{(5\ mins)}$, L_{10} and L_{90} shall also be measured at 5 mins intervals.

4.2 Monitoring Locations, Parameters and Frequency

4.2.1 According to the Updated 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 $L_{Aeq\ (5min)}$; $L_{A10(5min)}$ & $L_{A90(5min)}$	Once a week during normal construction working hour (0700-1900 Monday to Saturday)

4.3 Monitoring Equipment

4.3.1 Integrating Sound Level Meter (SLM) 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-17638-E0)	26 Mar 2025
Acoustic Calibrator	Rion NC-75 (S/N: 34724245)	23 Jul 2025
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
Oct 2024	60.2 (59.5 – 61.2)	53.2 (49.6 – 54.1)
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	• 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	• 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	• Submit noise mitigation proposals to IEC • Implement the agreed noise mitigation proposals
Exceedance of Limit Level	• 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	• 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	• 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 Updated 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 Updated 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 during the reporting period. 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 Updated 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	YSI ProDSS (S/N: 24G101659)	16 Nov 2024
Water Flow Meter	Global Water FP211 (S/N: 22K100859)	24 Jan 2025

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 Updated 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 NH3 G
TKN	0.4 mg/L	0.1 mg/L	APHA 4500Norg: D
Nitrate	0.5 mg/L	0.01 mg/L	APHA 4500 NO3 I
Sulphate	5 mg/L	1 mg/L	USEPA 375.4
Sulphite	2 mg/L	2 mg/L	APHA 4500 SO3 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 & WM2 on 9 October 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	7.2	>7.7	>7.8	7.2	>7.6	>7.7
DO in mg/L	8.2	<7.4	<4	8.0	<5	<4
Turbidity in NTU	2.9	>9.2	>9.5	5.6	>108.3	>108.9
Electrical Conductivity in µS/cm	57	---	---	155	---	---
SS in mg/L	2.7	>9.7	>11.4	4.6	>94.5	>94.7
Alkalinity in mg/L	16	---		28	---	
COD in mg/L	6			7		
BOD_5 in mg/L	2.0			<2		
TOC in mg/L	1			2		
Ammonia-nitrogen in mg/L	0.02			0.20		
TKN in mg/L	0.2			0.6		
Nitrate in mg/L	0.03			0.13		
Sulphate in mg/L	2			12		
Sulphite in mg/L	<2			<2		
Phosphorus in mg/L	0.01			<0.01		
Chloride in mg/L	6			5		
Sodium in µg/L	7290			5560		
Magnesium in µg/L	470			910		
Calcium in µg/L	3100			11600		
Potassium in µg/L	360			1370		
Iron in µg/L	250			1200		
Nickel in µg/L	<1			<1		
Zinc in µg/L	<10			23		
Manganese in µg/L	22			678		
Copper in µg/L	1.0			2		
Lead in µg/L	<1			<1		
Cadmium in µg/L	<0.2			<0.2		
Coliform Count in cfu/100mL	290			450		
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	
Parameters \ Level Exceedance		Action Level	Limit Level	Action Level	Limit Level
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 Updated 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	• 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	• Verify Notification of Exceedance • Check monitoring data and Contractor's working methods	• Rectify unacceptable practice • Amend working methods if appropriate
Action level being exceeded by two or more consecutive sampling days	• 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	• 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	• 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	• 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	• 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	• 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	• 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	• 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	• 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 25,338.41 tonnes of C&D materials was reused in the project site. A total of 41,202 tonnes of C&D materials was reused at alternative disposal ground (NENT Landfill) during the reporting period. A total of 3,427.2 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 66.79 tonnes of general refuse and a total of 208.56 tonnes 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:

- CH_4: >10% Lower Explosion Limit (LEL);
- CO_2: >0.5%; and
- O_2: <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	Blackline Safety G7C-EU2 (S/N: 3571220922)	27 Jan 2025

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 CO_2 at 0.5% is set for reference only, assuming no CO_2 emission from a particular location.

Depending on the baseline CO_2 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	2 Oct 2024	0	0	0	20.0
	3 Oct 2024	0	0	0	20.1
	4 Oct 2024	0	0	0	20.1
	5 Oct 2024	0	0	0	20.1
	7 Oct 2024	0	0	0	20.1
	8 Oct 2024	0	0	0	20.1
	9 Oct 2024	0	0	0	20.1
	10 Oct 2024	0	0	0	20.1
	12 Oct 2024	0	0	0	20.1
	14 Oct 2024	0	0	0	20.1
	15 Oct 2024	0	0	0	20.0
	16 Oct 2024	0	0	0	20.0
	17 Oct 2024	0	0	0	20.1
	18 Oct 2024	0	0	0	20.1
	19 Oct 2024	0	0	0	20.0
	21 Oct 2024	0	0	0	20.1
	22 Oct 2024	0	0	0	20.0
	23 Oct 2024	0	0	0	20.1
	24 Oct 2024	0	0	0	20.1
	25 Oct 2024	0	0	0	20.1
	26 Oct 2024	0	0	0	20.1
	28 Oct 2024	0	0	0	20.1
	29 Oct 2024	0	0	0	20.0
	30 Oct 2024	0	0	0	20.1
	31 Oct 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 CO_2 at 0.5% is set for reference only, assuming no CO_2 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	
Parameters / Level Exceedance		Action Level	Limit Level
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 Updated 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-02/292/2007.

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	1st	24 Nov 2022
	2nd	9 Dec 2022
	3rd	21 Dec 2022
	4th	13 Jan 2023
	5th	26 Jan 2023
	6th	8 Feb 2023
	7th	24 Feb 2023
	8th	20 Mar 2023
	9th	21 Apr 2023
	10th	12 May 2023
	11th	16 Jun 2023
	12th	18 Jul 2023
	13th	11 Aug 2023
	14th	15 Sep 2023
	15 th	13 Oct 2023
Post-translocation Monitoring	1st (Aug 2022)	29 Aug 2022
	2nd (Sep 2022)	28 Sep 2022
	3rd (Oct 2022)	28 Oct 2022
	4th (Nov 2022)	22 Nov 2022
	5th (Dec 2022)	29 Dec 2022
	6th (Jan 2023)	30 Jan 2023
	7th (Feb 2023)	24 Feb 2023
	8th (Mar 2023)	20 Mar 2023
	9th (Apr 2023)	19 Apr 2023
	10th (May 2023)	17 May 2023
	11th (Jun 2023)	7 Jun 2023
	12th (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 07, 14, 21 & 28 October 2024. A joint environmental site inspection was carried out by the representatives of the ER, the Contractor, IEC and the ET on 21 October 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:

07 October 2024

Observation(s):

1. Chemical container mixed with C&D waste in waste skip at SBA. The Contractor was reminded that chemical containers and C&D waste should be disposed of and collected separately, and that a chemical cabinet should be provided for segregation at SBA.to prevent contamination.

Reminder(s):

1. The Contractor was reminded that the exposed slope surface at Portion B2-1 should not only be covered with a green net, but also with tarpaulin sheets for short-term and shotcrete for long-term slope protection, to prevent silty stormwater runoff.

2. The Contractor was reminded that the excavation materials near the u-channel should be removed and kept away from the u-channel, and that sandbag barriers should be provided near the u-channel to minimize the excavation materials from entering the drainage system at Portion B2-1 directly when a rainstorm occurs.

3. The Contractor was reminded that the deposited silt and grit under the sedimentation basins at Portions B2-1 and E3-1 should be removed regularly in order to maintain the effectiveness of these sedimentation basins.

4. The Contractor was reminded that the exposed slope should be covered by green net after earthwork at Portion A.

5. The Contractor was reminded that any breaks in the slope protection should be maintained and shotcrete for long-term slope protection at SBA.

14 October 2024

Observation(s):

1. Unpaved main haul road is dusty and fugitive dust is observed at Portion A. The Contractor was advised that watering should be provided regularly to ensure the unpaved main haul road is kept damp to prevent dust dispersion at Portion A.

2. Activities of handing or storage of bulk cement or dry PFA shall be carried out in a totally enclosed system or facility at Portion E3-1. The Contractor was

recommended that the shelter-on top and the 3-sides should be provided for the activities of handing and storage of bulk cement or dry PFA at Portion E3-1.

3. The exposed slope at Portion B2-1 was observed to be not entirely covered by impervious sheeting. The Contractor was reminded that any breaks in the slope protection should be maintained and shotcrete for long-term slope protection at SBA.

Reminder(s):

1. The Contractor was reminded that the excavation materials near the u-channel should be removed and kept away from the u-channel, and that sandbag barriers should be provided near the u-channel to minimize the excavation materials from entering the drainage system at Portion B2-1 directly when a rainstorm occurs.

2. The Contractor was reminded that the exposed slope should be covered with green netting and that the dusty material should be disposed of as soon as possible after the earthwork at Portion A.

3. The Contractor was reminded that any breaks in the slope protection should be maintained and shotcrete for long-term slope protection at SBA.

21 October 2024

Observation(s):

1. The generator without NRMM label was observed at Portion D. The contractor was reminded that NRMM label should be affixed on the generator at Portion D.

2. The accumulated of wastewater with general waste in the skip was found at Portion A. The contractor was advised that the general waste and the accumulation of wastewater should be removed, and that the accumulation of wastewater should be treated by a silt removal facility at Portion A.

Reminder(s):

1. The Contractor was reminded that the excavation materials near the u-channel should be removed and kept away from the u-channel, and that sandbag barriers should be provided near the u-channel to minimize the excavation materials from entering the drainage system at Portion B2-1 directly when a rainstorm occurs.

2. The Contractor was reminded that the exposed slope should be covered with green netting and that the dusty material should be disposed of as soon as possible after the earthwork at Portion A.

3. The Contractor was reminded that any breaks in the slope protection should be maintained and shotcrete for long-term slope protection at SBA.

28 October 2024

Observation(s):

1. More than 20 bags of PFA material should be stored in the top and 3-sides of the shelter or covered with impervious sheeting at Portion A. The Contractor was reminded that more than 20 bags of PFA material should be stored in a top and three-sided shelter or covered with an impervious sheet at Portion A.

2. Open stockpiling of construction material should be covered with tarpaulin and removed as soon as possible at Portion E4. The Contractor was advised that open stockpiling of construction material should be removed and kept away from the sedimentation basin at Portion E4.

3. Silt fence should be properly maintained at SBA. The Contractor was recommended to arrange silt fence maintenance regularly to ensure silt fence efficiency at SBA.

Reminder(s):

1. The Contractor was reminded that the excavation materials near the u-channel should be removed and kept away from the u-channel, and that sandbag barriers should be provided near the u-channel to minimize the excavation materials from entering the drainage system at Portion B2-1 directly when a rainstorm occurs.

2. The Contractor was reminded that the exposed slope should be covered with green netting and that the dusty material should be disposed of as soon as possible after the earthwork at Portion A.

3. The Contractor was reminded that any breaks in the slope protection should be maintained and shotcrete for long-term slope protection at SBA.

4. The Contractor was reminded that the exposed slope should be covered with impervious sheeting and shotcrete for long-term slope protection at Portion E4.

11.1.4 No general site inspections were 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	
Parameters \ Level Exceedance		Action Level	Limit Level	Action Level	Limit Level
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	
Parameters \ Level Exceedance		Action Level	Limit Level
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
October 2024	Complaint Date	-	-	-	-	-
	No. of Complaint	0	0	0	0	0
Reporting Period Total		0	0	0	0	0
Accumulate of project		1*	0	6(1*)	0	0

Remarks:

1. * equal to non-project related after the investigation.
2. # equal to the complaint under 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 Updated 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, backfilling of material and 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, B2/E1, E3-1 & E4
-	Tree felling at whole site
-	Shotcreting (Permanent and Temporary) at whole site
-	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 Weekly 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.

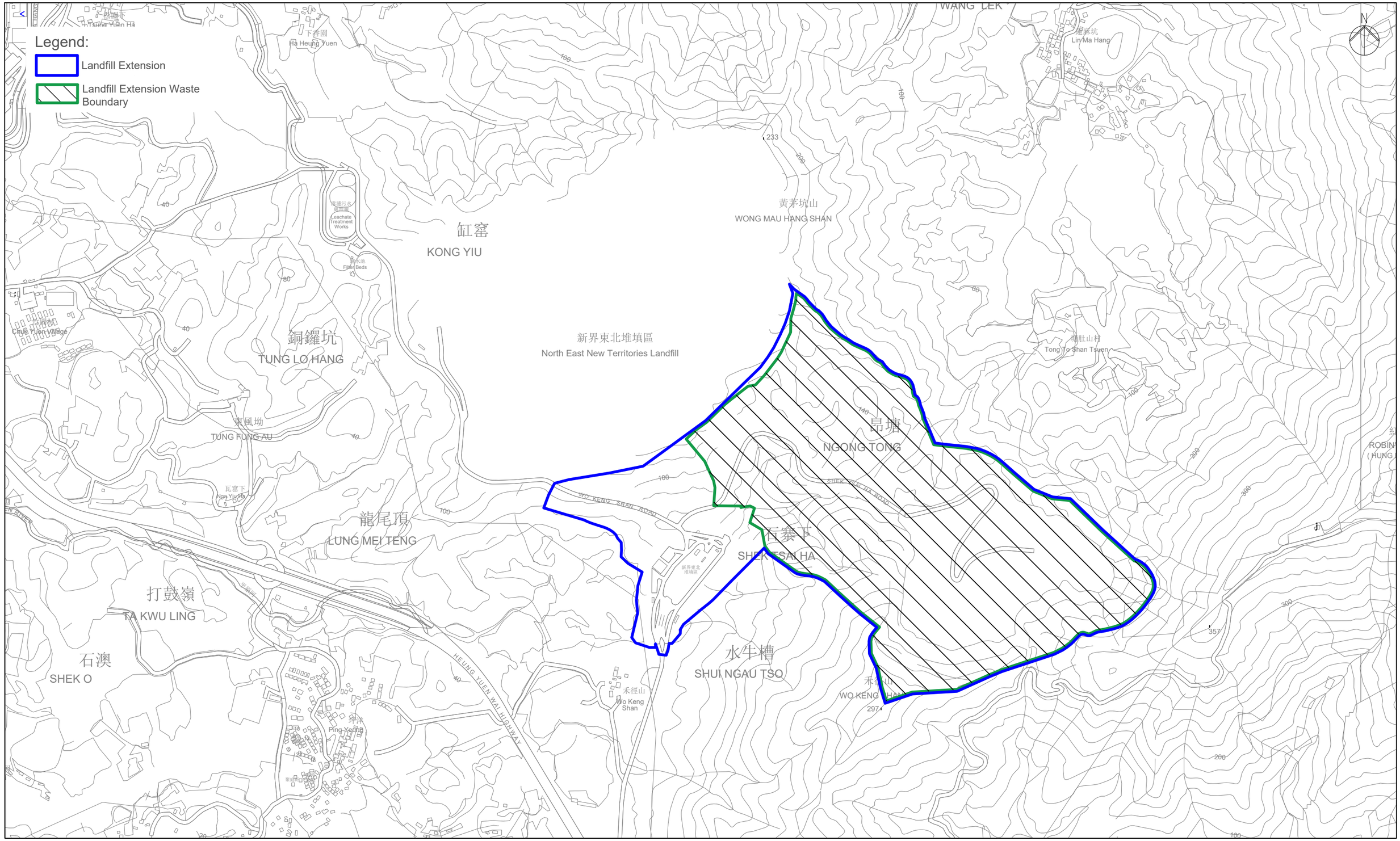
15.1.8 No complaint was recorded during the reporting period.

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.

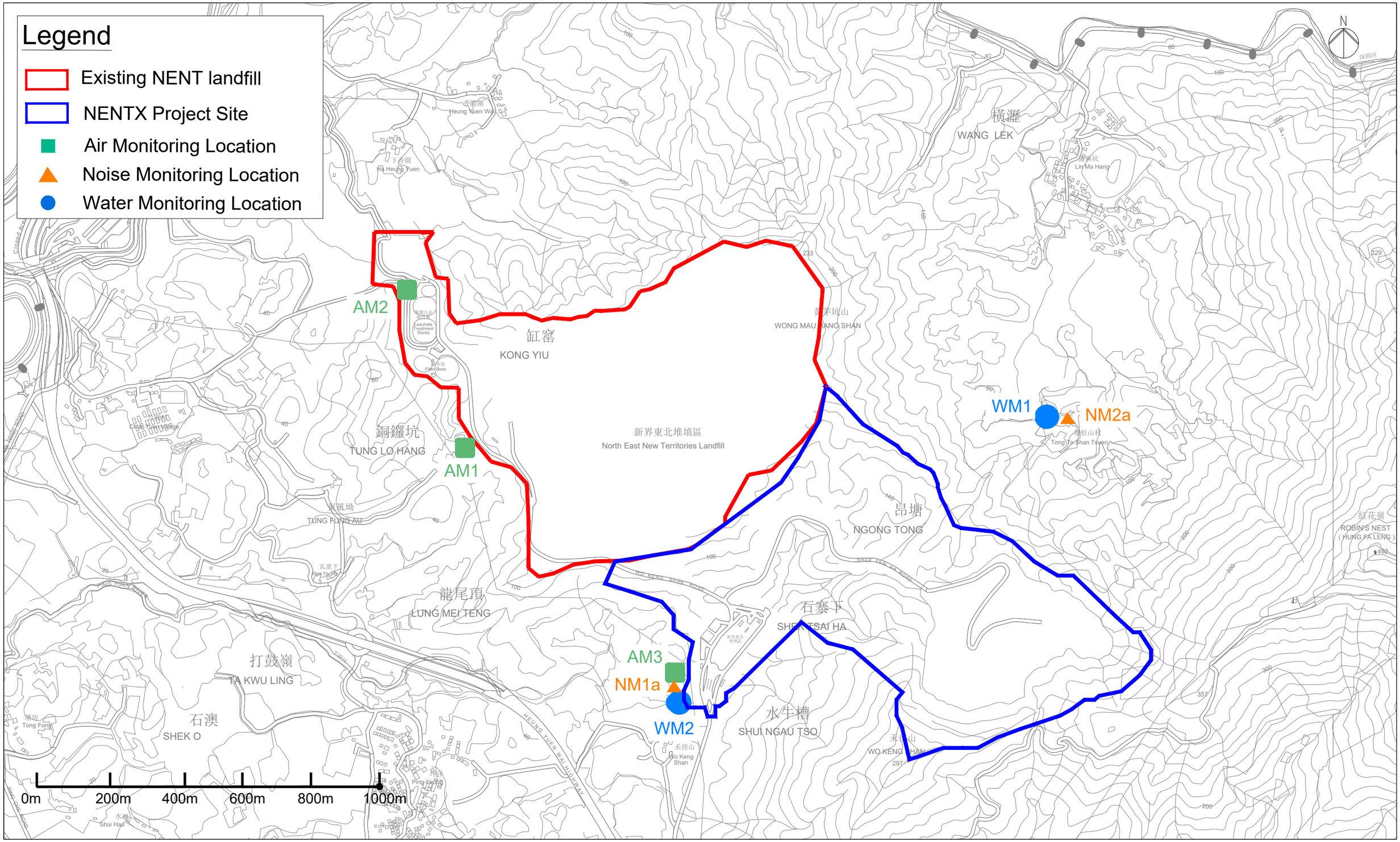
15.1.11 The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Figure 1 Location of the Project Site



Aurecon Hong Kong Limited	North-East New Territories (NENT) Landfill Extension Location Plan of the Project Site	Figure 1.1 Scale: 1:10000

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

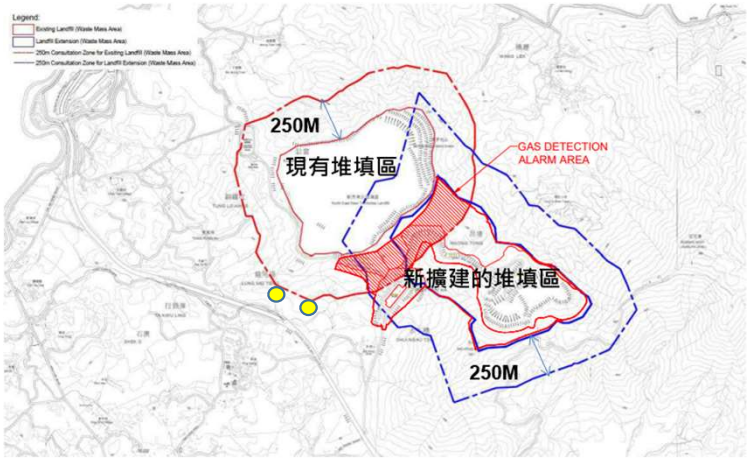


aurecon Aurecon Hong Kong Limited	North East New Territories (NENT) Landfill Extension Impact Monitoring Location	Figure 2

Figure 3 Landfill Gas Monitoring Locations

Gas Monitoring Point

Monitoring Frequency: 2 times per day



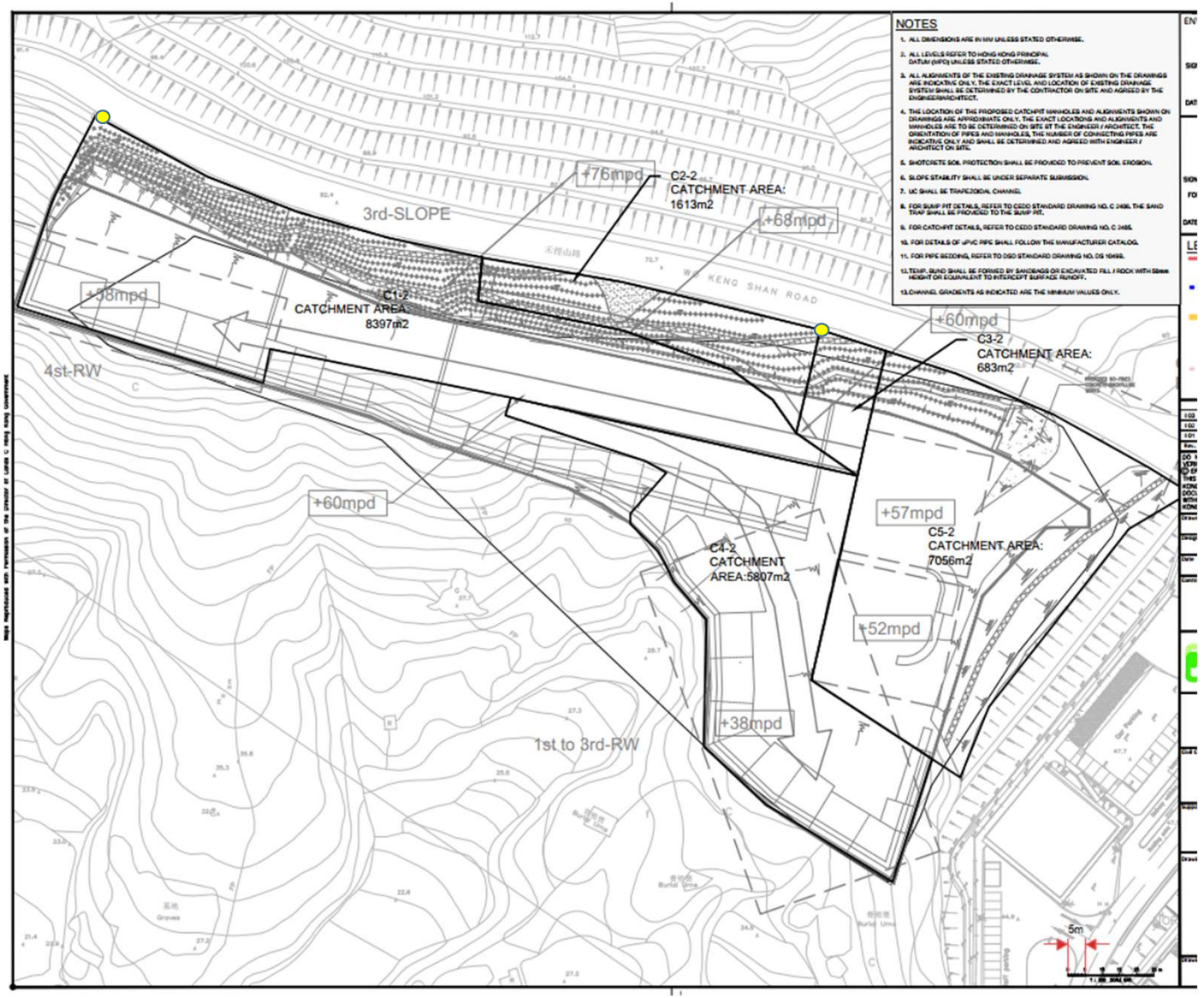
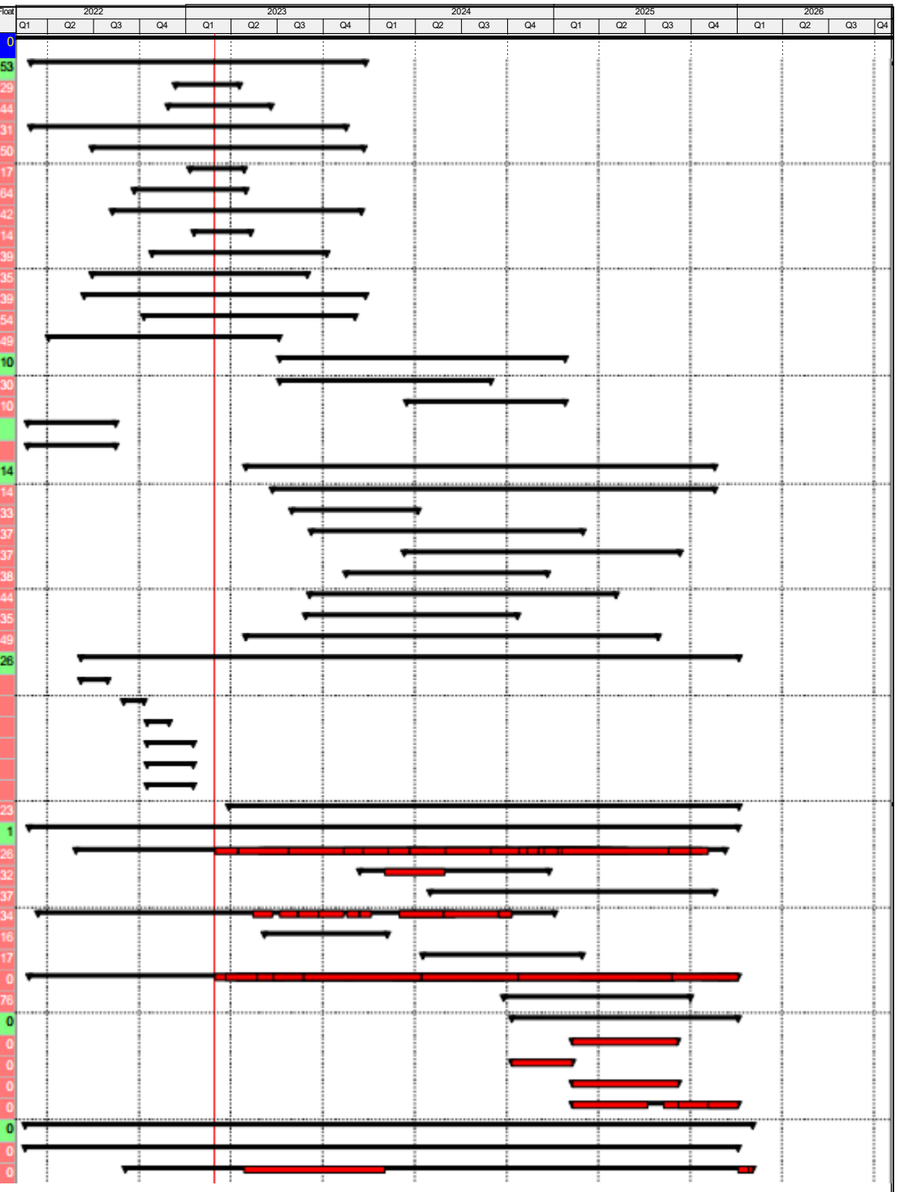


Figure 3 Landfill Gas Monitoring Locations

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
NENTX_Updated Baseline Programme (Rev.4)		1826	25-Jan-22 A	25-Jan-27	28-Feb-23	25-Jan-27	28-Feb-23	25-Jan-27			0
DESIGN DEVELOPMENT		666	28-Feb-22 A	25-Dec-23	28-Feb-23	25-Dec-23	02-Mar-23	16-Feb-24			53
Portion A - Site Formation		91	12-Dec-22 A	17-Apr-23	28-Feb-23	17-Apr-23	07-Apr-23	26-May-23			29
Portion A & D Architectural Design		205	28-Nov-22 A	20-Jun-23	28-Feb-23	20-Jun-23	14-Mar-23	03-Aug-23			44
Portion A - Leachate Treatment Works & LFG Treatment Plant		626	28-Feb-22 A	15-Nov-23	28-Feb-23	15-Nov-23	05-Apr-23	16-Dec-23			31
Portion A - Process Building		540	30-Jun-22 A	21-Dec-23	28-Feb-23	21-Dec-23	04-Apr-23	09-Feb-24			50
Portion D Site Formation		109	10-Jan-23 A	28-Apr-23	04-Apr-23	28-Apr-23	20-Apr-23	15-May-23			17
Portion A and D Preliminary Utilities Arrangement		159	21-Sep-22 A	01-May-23	28-Feb-23	01-May-23	26-May-23	28-Jul-23			64
Site services detailed design for Portion A and D		496	09-Aug-22 A	17-Dec-23	28-Feb-23	17-Dec-23	11-Apr-23	28-Jan-24			42
Permanent Drainage - Portion A, C & D		80	19-Jan-23 A	10-May-23	28-Feb-23	10-May-23	20-Mar-23	30-May-23			14
Sewerage Management Plan - Portion A, C & D		249	26-Oct-22 A	09-Oct-23	25-Apr-23	09-Oct-23	19-Jun-23	01-Dec-23			39
Pavement Road and Traffic Design for Portoin A & D		306	30-Jun-22 A	31-Aug-23	06-Jul-23	31-Aug-23	24-Aug-23	19-Oct-23			35
Accommodation Buildings (Portion D)		401	13-Jun-22 A	25-Dec-23	28-Feb-23	25-Dec-23	08-Mar-23	16-Feb-24			39
Existing Structures (Portion C)		301	10-Oct-22 A	04-Dec-23	28-Feb-23	04-Dec-23	06-May-23	16-Feb-24			54
Landfill Area		457	04-Apr-22 A	05-Jul-23	28-Feb-23	05-Jul-23	02-Mar-23	23-Aug-23			49
FS Submisson and FSD Consent		406	07-Jul-23	24-Jan-25	07-Jul-23	24-Jan-25	21-Jul-23	07-Feb-25			10
Preliminary FS Submission		300	07-Jul-23	29-Aug-24	07-Jul-23	29-Aug-24	21-Jul-23	11-Oct-24			30
Process Building and Fire Services Building Detailed Design FS Submission		226	15-Mar-24	24-Jan-25	15-Mar-24	24-Jan-25	29-Mar-24	07-Feb-25			10
TECHNICAL SUBMISSION		125	22-Feb-22 A	16-Aug-22 A							
Project Control Plan and Report		125	22-Feb-22 A	16-Aug-22 A							
PROCUREMENT / FABRICATION / DELIVERY		933	01-May-23	18-Nov-25	01-May-23	18-Nov-25	18-Jun-23	03-Dec-25			14
General Material		880	23-Jun-23	18-Nov-25	23-Jun-23	18-Nov-25	07-Jul-23	03-Dec-25			14
LIFT		250	31-Jul-23	06-Apr-24	31-Jul-23	06-Apr-24	03-Sep-23	09-May-24			33
LTW - GFS and GRP Tanks		540	07-Sep-23	28-Feb-25	07-Sep-23	28-Feb-25	14-Oct-23	06-Apr-25			37
LTW - Lamella Settlers		550	10-Mar-24	10-Sep-25	10-Mar-24	10-Sep-25	15-Apr-24	17-Oct-25			37
LTW - Sludge Thicknening		400	16-Nov-23	20-Dec-24	16-Nov-23	20-Dec-24	24-Dec-23	27-Jan-25			38
LTW - Ammonia Stripper		610	04-Sep-23	06-May-25	04-Sep-23	06-May-25	19-Oct-23	20-Jun-25			44
Process Building(Electrial equipments)		420	28-Aug-23	21-Oct-24	28-Aug-23	21-Oct-24	03-Oct-23	25-Nov-24			35
LFG Plant		820	01-May-23	28-Jul-25	01-May-23	28-Jul-25	18-Jun-23	15-Sep-25			49
EPD REQUIREMENT - GI WORKS		1309	07-Jun-22 A	05-Jan-26	28-Mar-23	05-Jan-26	27-Apr-23	31-Jan-26			26
PORTION D		45	07-Jun-22 A	30-Jul-22 A							
PORTION A		32	31-Aug-22 A	11-Oct-22 A							
PORTION E3-1		38	17-Oct-22 A	30-Nov-22 A							
PORTION E4		76	17-Oct-22 A	17-Jan-23 A							
PORTION E3-1-A		76	17-Oct-22 A	17-Jan-23 A							
PORTION E1		76	17-Oct-22 A	17-Jan-23 A							
ENVIRONMENTAL MONITORING		821	28-Mar-23	05-Jan-26	28-Mar-23	05-Jan-26	27-Apr-23	31-Jan-26			23
CONSTRUCTION - INITIAL WORKS PHASE 1		1409	24-Feb-22 A	03-Jan-26	28-Feb-23	03-Jan-26	28-Feb-23	03-Jan-26			1
PORTION A		1291	28-May-22 A	08-Dec-25	28-Feb-23	08-Dec-25	28-Feb-23	03-Jan-26			26
SITEWIDE Underground UTILITIES (Portion A to Portion D)		302	14-Dec-23	23-Dec-24	14-Dec-23	23-Dec-24	02-Feb-24	08-Feb-25			32
Waste Reception Area (PORTION C) Construct by Others		460	02-May-24	18-Nov-25	02-May-24	18-Nov-25	27-May-24	03-Jan-26			37
PORTION D		1028	14-Mar-22 A	04-Jan-25	28-Feb-23	04-Jan-25	04-Mar-23	08-Feb-25			34
PORTION D - Underground Drainage / UG Utilities and Pipe Laying Works		200	07-Jun-23	05-Feb-24	07-Jun-23	05-Feb-24	28-Jun-23	01-Mar-24			16
PORTION D - EVA Road Road Pavement Works		257	16-Apr-24	27-Feb-25	16-Apr-24	27-Feb-25	07-May-24	19-Mar-25			17
Landfill Area (Portion E3-1, E4, E1, B1-1 & B2)		1409	24-Feb-22 A	03-Jan-26	28-Feb-23	03-Jan-26	28-Feb-23	03-Jan-26			0
Landscape Works (Landfill)		300	24-Sep-24	30-Sep-25	24-Sep-24	30-Sep-25	27-Dec-24	03-Jan-26			76
FS INSPECTION		450	11-Oct-24	04-Jan-26	11-Oct-24	04-Jan-26	11-Oct-24	04-Jan-26			0
Portion A - Readiness for FS inspection (Process Building)		210	07-Feb-25	05-Sep-25	07-Feb-25	05-Sep-25	08-Feb-25	06-Sep-25			0
Portion D : Readiness for FS inspection		120	11-Oct-24	08-Feb-25	11-Oct-24	08-Feb-25	11-Oct-24	08-Feb-25			0
2nd Inspection		210	07-Feb-25	06-Sep-25	07-Feb-25	06-Sep-25	08-Feb-25	06-Sep-25			0
FS Inspection Certificate		330	08-Feb-25	04-Jan-26	08-Feb-25	04-Jan-26	08-Feb-25	04-Jan-26			0
STATUTORY SUBMISSION		1446	16-Feb-22 A	01-Feb-26	28-Feb-23	01-Feb-26	02-Mar-23	01-Feb-26			0
Obtain Licences & Permits for Construction		1418	16-Feb-22 A	03-Jan-26	28-Feb-23	03-Jan-26	02-Mar-23	04-Jan-26			0
Obtain Licences & Permits for Operation		1246	04-Sep-22 A	01-Feb-26	28-Feb-23	01-Feb-26	15-Mar-23	01-Feb-26			0



環境保護署
Environmental Protection Department

Remaining Level of Effort
Remaining Work
Critical Remaining Work
Milestone
Summary

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

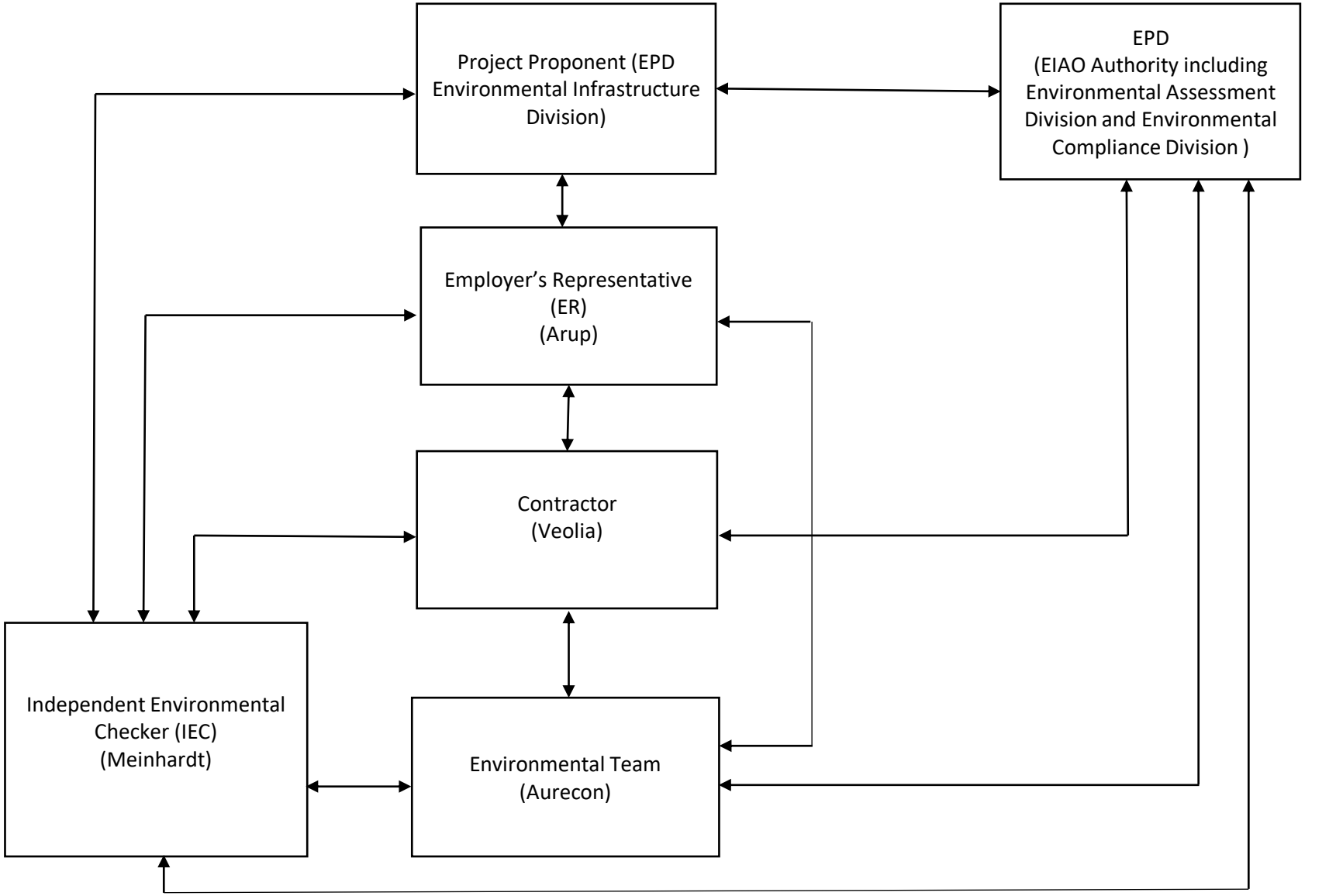
VEOLIA

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, backfilling of material, 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, Portion E4, Portion E1/B2	PYE	Generation of C&D waste	Implementation of trip ticket system, waste recycling, internal waste transfer
Tree Felling	Whole site	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

Line of Communication

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) 1st 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 Sep2022)
2.6	2.8	Submission of translocation proposal	Submission Date (8 Jul 2022)
2.7	2.9	Submission of Transplantation Report and Post-Transplantation Monitoring	Submission Date (19 Jan 2023) 1st monitoring (24 Nov 2022) 2nd monitoring (9 Dec 2022) 3rd monitoring (21 Dec 2022) 4th monitoring (13 Jan 2023) 5th monitoring (26 Jan 2023) 6th monitoring (8 Feb 2023) 7th monitoring (24 Feb 2023) 8th monitoring (20 Mar 2023) 9th monitoring (21 Apr 2023) 10th monitoring (12 May 2023) 11th monitoring (16 Jun 2023) 12th monitoring (18 Jul 2023) 13th monitoring (11 Aug 2023) 14th monitoring (15 Sep 2023) 15th monitoring (13 Oct 2023)

FEP Condition	EP Condition	Submission / Measures	Status
2.8	2.10	Submission of Translocation Report and Post-Translocation Monitoring	Translocation was carried out in July 2022 Submission Date (27 Dec 2022) 1st monitoring (29 Aug 2022) 2nd monitoring (28 Sep 2022) 3rd monitoring (28 Oct 2022) 4th monitoring (22 Nov 2022) 5th monitoring (29 Dec 2022) 6th monitoring (30 Jan 2023) 7th monitoring (24 Feb 2023) 8th monitoring (20 Mar 2023) 9th monitoring (19 Apr 2023) 10th monitoring (17 May 2023) 11th monitoring (7 Jun 2023) 12th monitoring (12 Jul 2023)
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 Dec 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	1st report (Dec 2022) 2nd report (Jan 2023) 3rd report (Feb 2023) 4th report (Mar 2023) 5th report (Apr 2023) 6th report (May 2023) 7th report (Jun 2023) 8th report (Jul 2023) 9th report (Aug 2023) 10th report (Sep 2023) 11th report (Oct 2023) 12th report (Nov 2023) 13th report (Dec 2023) 14th report (Jan 2024) 15th report (Feb 2024) 16th report (Mar 2024) 17th report (Apr 2024) 18th report (May 2024) 19th report (Jun 2024) 20th report (Jul 2024) 21st report (Aug 2024) 22nd report (Sep 2024) 23rd report (Oct 2024)

Appendix D Monitoring Schedule for Reporting Month & Next Month

Impact Monitoring Schedule for NENT Landfill Extension (Oct 2024) (version 1.0)

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

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).

Date: 27 May 2024

Impact Monitoring Schedule for NENT Landfill Extension (Nov 2024) (version 1.0)

11-2024						
Sun	Mon	Tue	Wed	Thur	Fri	Sat
27	28	29	30	31 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	1	2
3	4	5	6 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a Surface water quality monitoring at WM1 & WM2	7	8	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	23 Air quality monitoring at AM1, AM2 and AM3
24	25	26	27	28	29 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	30

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).

Date: 27 May 2024

Appendix E Calibration Certificates

Air Quality

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

Information of Calibrated Equipement

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.:	0Z4545				
Our Report Refrence No.:	RPT-23-HVS-0023				
Calibration Location:	AM2, location near the Leachate Treatment Works within the NENTX Landfill				

Standard Equipment Information

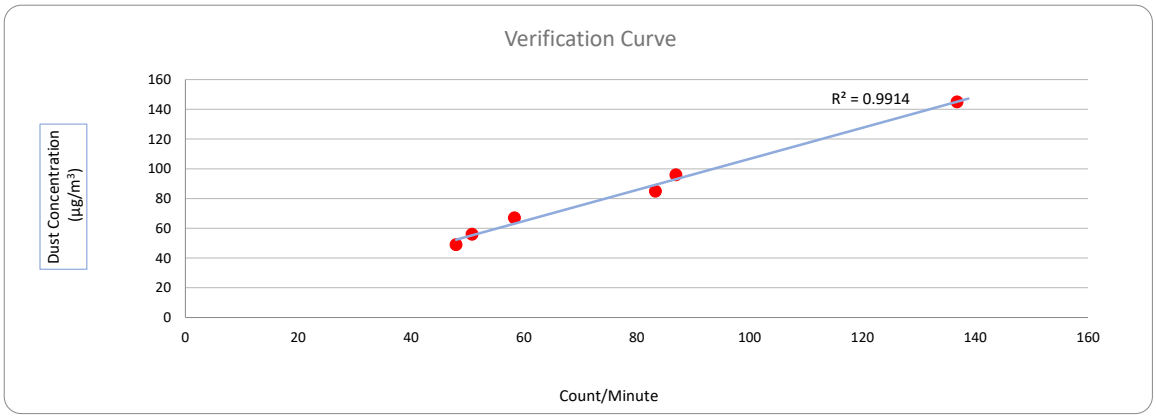
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5028A
Equipment serial no.:	1106	3702
Last Calibration Date:	04-Nov-23	31-Mar-23
Next Calibration Date:	04-Jan-24	30-Mar-24

Equipement Vertification Result

Verification Test No.	Date	Duration			Results from Calibrated Equipement		Results from Standard Equipment
		Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (µg/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:	**1.0451**	Intercept:	**2.1545**	*Correlation Coefficient,R:	**0.9957**
Verification Test Result:	Strong Correlation, Results were accepted.			* 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 Equipement

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 Refrence No.:	RPT-23-HVS-0021				
Calibration Location:	AM2, location near the Leachate Treatment Works within the NENTX Landfill				

Standard Equipment Information

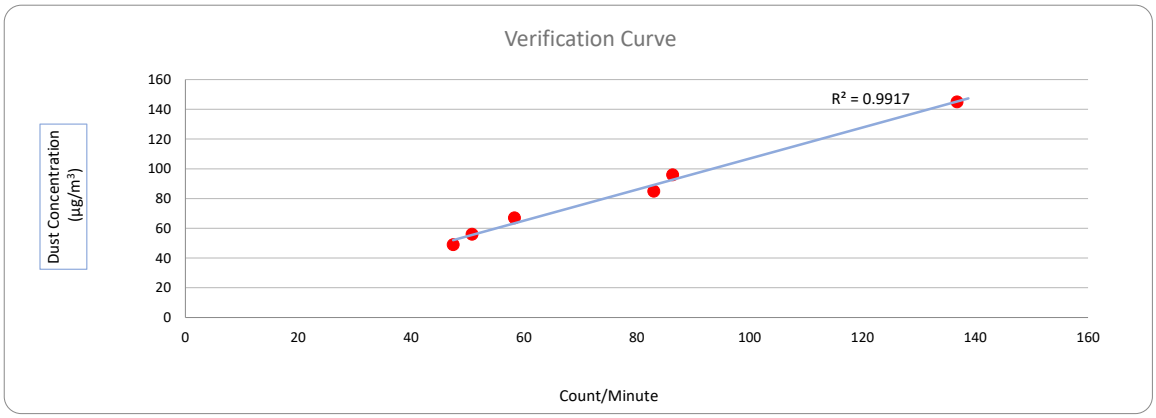
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5028A
Equipment serial no.:	1106	3702
Last Calibration Date:	04-Nov-23	31-Mar-23
Next Calibration Date:	04-Jan-24	30-Mar-24

Equipement Vertification Result

Verification Test No.	Date	Duration			Results from Calibrated Equipement		Results from Standard Equipment
		Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (µg/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:	**1.0437**	Intercept:	**2.4993**	*Correlation Coefficient,R:	**0.9958**
Verification Test Result:	Strong Correlation, Results were accepted.			* 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 Equipement

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 Refrence No.:	RPT-23-HVS-0022				
Calibration Location:	AM2, location near the Leachate Treatment Works within the NENTX Landfill				

Standard Equipment Information

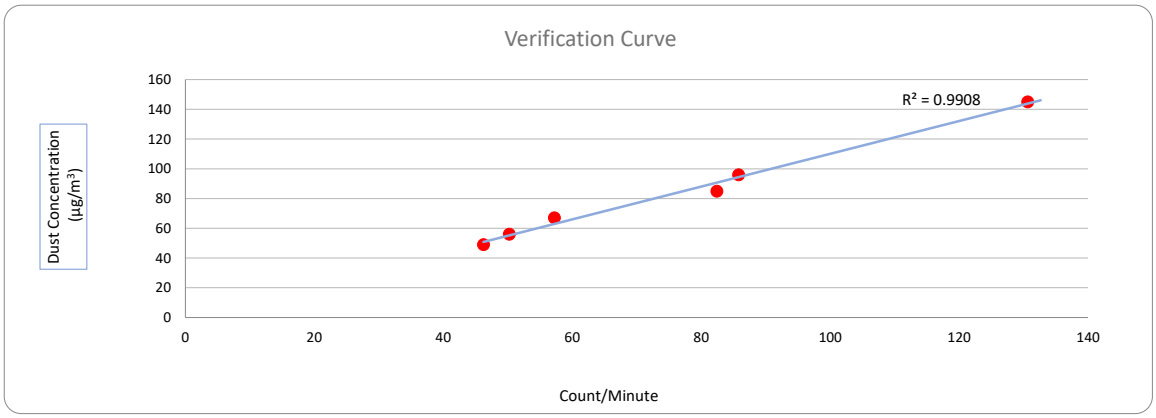
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5028A
Equipment serial no.:	1106	3702
Last Calibration Date:	04-Nov-23	31-Mar-23
Next Calibration Date:	04-Jan-24	30-Mar-24

Equipement Vertification Result

Verification Test No.	Date	Duration			Results from Calibrated Equipement		Results from Standard Equipment
		Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (µg/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:	**1.1020**	Intercept:	**-0.1223**	*Correlation Coefficient,R:	**0.9954**
Verification Test Result:	Strong Correlation, Results were accepted.			* 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 Tung Lo Hang**	**Site ID:**	**AM1**	**Date:**	**22-Aug-2024**
Serial No:	**1105**	**Model:**	**TE-5170X**	**Operator:**	**Andy Li**

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	757.9	**Actual Temperature during Calibration (T_a) (deg K):**	302.0

Calibration Orifice

Model:	TE-5025A	**Slope (m_c):**	2.06920
Serial No.:	3465	**Intercept (b_c):**	-0.02547
Calibration Due Date:	15-Jan-25	**Corr. Coeff:**	0.99999

Calibration Data

Plate or Test #	ΔH_2O (in)	Qa, X-Axis (m^3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	8.20	1.385	60.0	59.52
13	7.80	1.351	58.0	57.53
10	5.00	1.084	52.0	51.58
7	3.60	0.922	48.0	47.62
5	2.00	0.690	41.0	40.67

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

m= 25.9869 b= 23.1483 Corr. Coeff= 0.9975

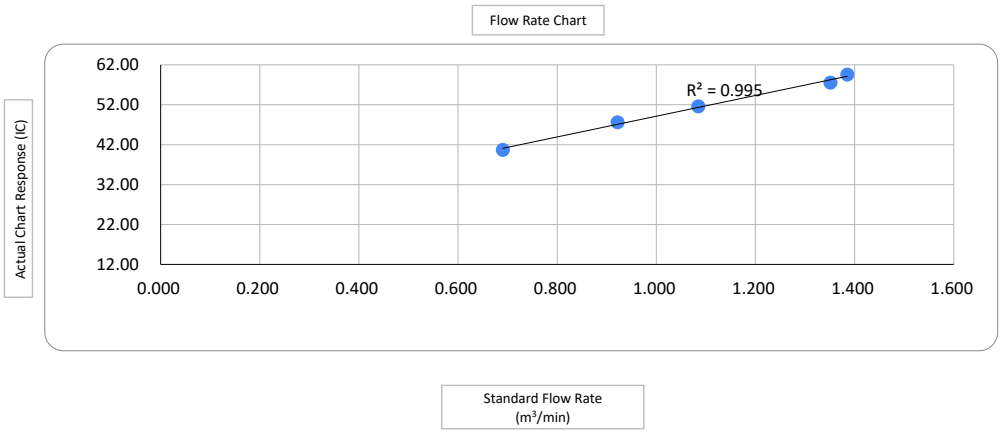
Calculations

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

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

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
Environemntal Team Leader

Date: 22-Aug-2024

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	**Representative For Tung Lo Hang**	**Site ID:**	**AM1**	**Date:**	**18-Oct-2024**
Serial No:	**1105**	**Model:**	**TE-5170X**	**Operator:**	**Andy Li**

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	759.9	**Actual Temperature during Calibration (T_a) (deg K):**	301.5

Calibration Orifice

Model:	TE-5025A	**Slope (m_c):**	2.06920
Serial No.:	3465	**Intercept (b_c):**	-0.02547
Calibration Due Date:	15-Jan-25	**Corr. Coeff:**	0.99999

Calibration Data

Plate or Test #	ΔH_2O (in)	Qa, X-Axis (m^3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	9.00	1.454	56.0	55.67
13	7.40	1.319	53.0	52.69
10	5.60	1.149	48.0	47.72
7	4.00	0.973	44.0	43.74
5	2.20	0.725	40.0	39.76

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

m= 22.3590 b= 22.7841 Corr. Coeff= 0.9936

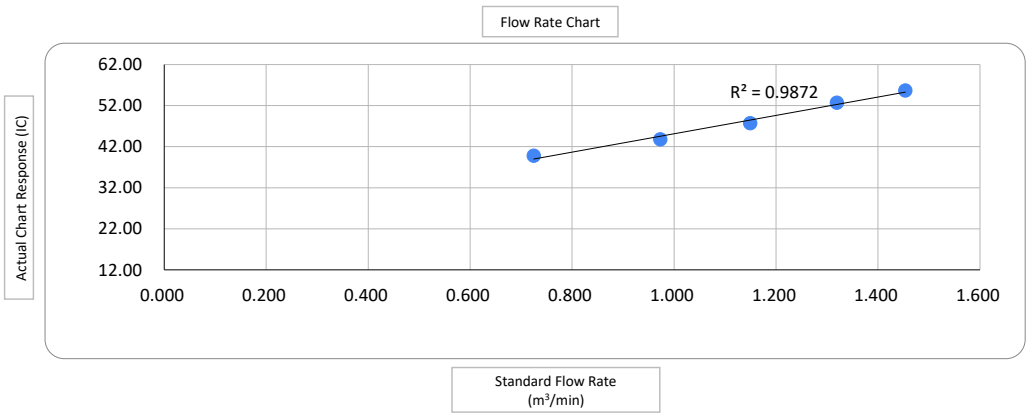
Calculations

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

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

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
Environemntal Team Leader

Date: 18-Oct-2024

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	**Representative For Heung YuenWai**	**Site ID:**	**AM2**	**Date:**	**22-Aug-2024**
Serial No:	**1106**	**Model:**	**TE-5170X**	**Operator:**	**Andy Li**

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	757.9	**Actual Temperature during Calibration (T_a) (deg K):**	302.0

Calibration Orifice

Model:	TE-5025A	**Slope (m_c):**	2.06920
Serial No.:	3465	**Intercept (b_c):**	-0.02547
Calibration Due Date:	15-Jan-25	**Corr. Coeff:**	0.99999

Calibration Data

Plate or Test #	ΔH_2O (in)	Qa, X-Axis (m^3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	7.00	1.281	60.0	59.52
13	6.10	1.196	58.0	57.53
10	4.40	1.018	52.0	51.58
7	3.80	0.947	50.0	49.60
5	2.00	0.690	41.0	40.67

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

m= 32.1950 b= 18.7360 Corr. Coeff= 0.9988

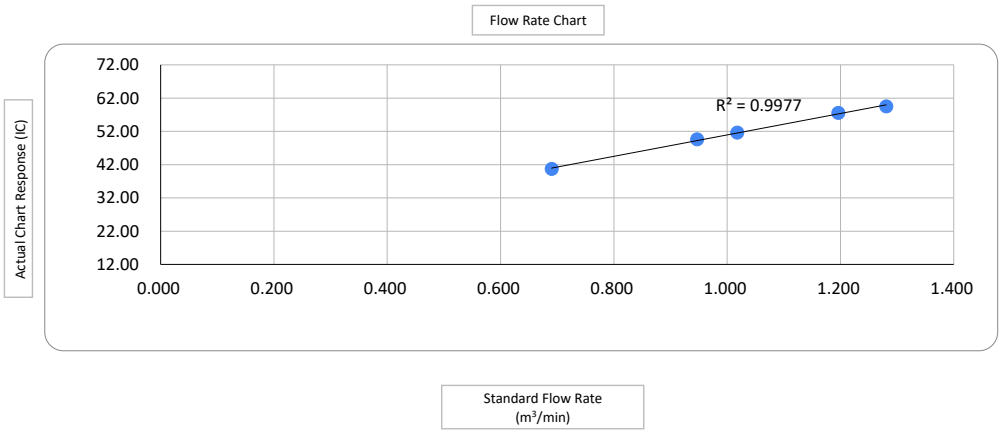
Calculations

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

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

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
Environemntal Team Leader

Date: 22-Aug-2024

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	**Representative For Heung YuenWai**	**Site ID:**	**AM2**	**Date:**	**18-Oct-2024**
Serial No:	**1106**	**Model:**	**TE-5170X**	**Operator:**	**Andy Li**

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	759.9	**Actual Temperature during Calibration (T_a) (deg K):**	301.5

Calibration Orifice

Model:	TE-5025A	**Slope (m_c):**	2.06920
Serial No.:	3465	**Intercept (b_c):**	-0.02547
Calibration Due Date:	15-Jan-25	**Corr. Coeff:**	0.99999

Calibration Data

Plate or Test #	ΔH_2O (in)	Qa, X-Axis (m^3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	9.00	1.454	58.0	57.66
13	7.00	1.283	53.0	52.69
10	4.60	1.043	47.0	46.72
7	2.40	0.757	42.0	41.75
5	2.00	0.692	40.0	39.76

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

m= 22.6484 b= 24.0358 Corr. Coeff= 0.9958

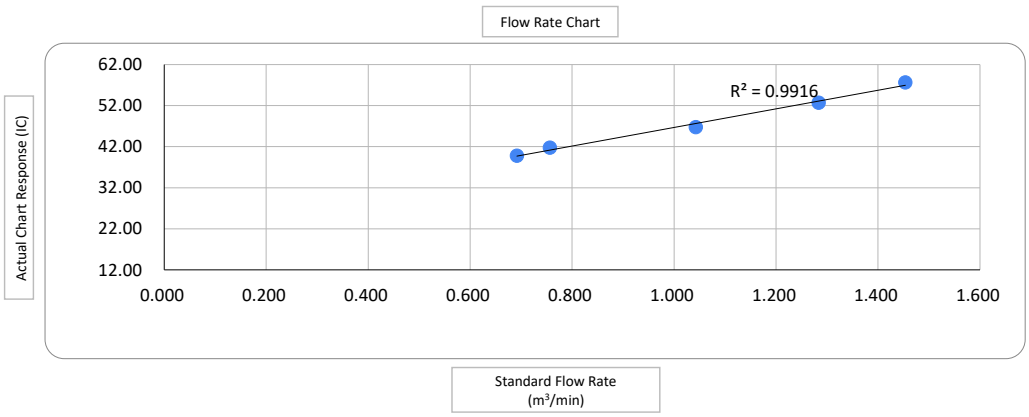
Calculations

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

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

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
Environemntal Team Leader

Date: 18-Oct-2024

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	**Representative For Wo Keng Shan Tsuen**	**Site ID:**	**AM3**	**Date:**	**22-Aug-2024**
Serial No:	**1856**	**Model:**	**TE-5170X**	**Operator:**	**Andy Li**

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	757.9	**Actual Temperature during Calibration (T_a) (deg K):**	302.0

Calibration Orifice

Model:	TE-5025A	**Slope (m_c):**	2.06920
Serial No.:	3465	**Intercept (b_c):**	-0.02547
Calibration Due Date:	15-Jan-25	**Corr. Coeff:**	0.99999

Calibration Data

Plate or Test #	ΔH_2O (in)	Qa, X-Axis (m^3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	10.00	1.528	62.0	61.50
13	8.60	1.418	58.0	57.53
10	6.00	1.187	54.0	53.57
7	4.20	0.995	48.0	47.62
5	2.00	0.690	42.0	41.66

0

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

m= 23.3844 b= 25.1656 Corr. Coeff= 0.9956

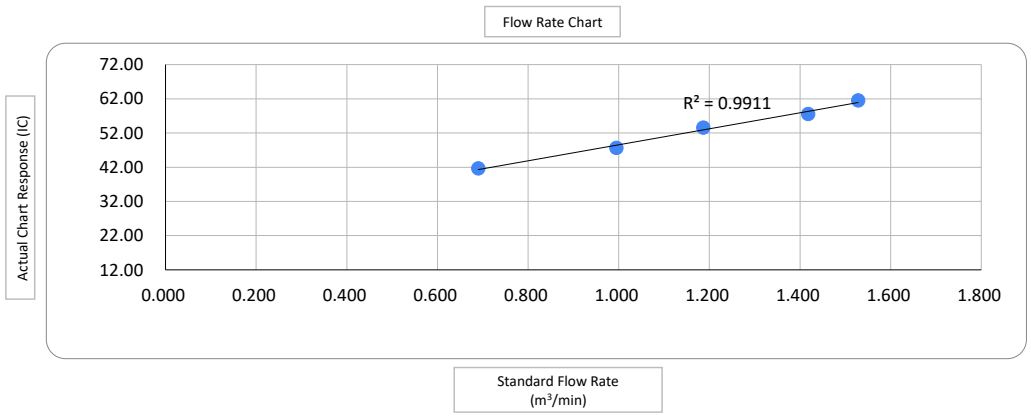
Calculations

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

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

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
Environemntal Team Leader

Date: 22-Aug-2024

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	**Representative For Wo Keng Shan Tsuen**	**Site ID:**	**AM3**	**Date:**	**18-Oct-2024**
Serial No:	**1856**	**Model:**	**TE-5170X**	**Operator:**	**Andy Li**

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	759.9	**Actual Temperature during Calibration (T_a) (deg K):**	301.5

Calibration Orifice

Model:	TE-5025A	**Slope (m_c):**	2.06920
Serial No.:	3465	**Intercept (b_c):**	-0.02547
Calibration Due Date:	15-Jan-25	**Corr. Coeff:**	0.99999

Calibration Data

Plate or Test #	ΔH_2O (in)	Qa, X-Axis (m^3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	8.80	1.438	56.0	55.67
13	7.00	1.283	52.0	51.69
10	5.40	1.129	49.0	48.71
7	3.40	0.898	44.0	43.74
5	2.60	0.787	40.0	39.76

0

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

m= 23.4520 b= 21.9557 Corr. Coeff= 0.9964

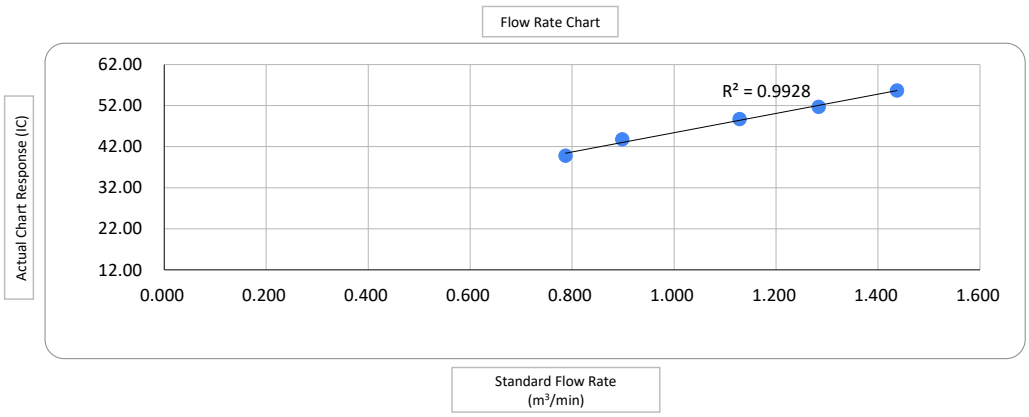
Calculations

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

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

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
Environemntal Team Leader

Date: 18-Oct-2024

TISCH Environmental

RECALIBRATION DUE DATE:
January 15, 2025

Certificate of Calibration

Calibration Certification Information				
Cal. Date:	January 15, 2024	**Rootsmeter S/N:** 438320	**Ta:** 294	°K
Operator:	Jim Tisch		**Pa:** 755.9	mm Hg
Calibration Model #:	TE-5025A	**Calibrator S/N:** **3465**		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4350	3.3	2.00
2	3	4	1	1.0180	6.4	4.00
3	5	6	1	0.9090	8.0	5.00
4	7	8	1	0.8670	8.9	5.50
5	9	10	1	0.7150	12.9	8.00

Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H(Ta/Pa)}$ (y-axis)
1.0037	0.6995	1.4200	0.9956	0.6938	0.8820
0.9996	0.9819	2.0081	0.9915	0.9740	1.2473
0.9975	1.0973	2.2452	0.9894	1.0885	1.3945
0.9963	1.1491	2.3547	0.9882	1.1398	1.4626
0.9909	1.3859	2.8399	0.9829	1.3747	1.7639
QSTD	**m=**	**2.06920**	**QA**	**m=**	**1.29570**
	b=	**-0.02547**		**b=**	**-0.01582**
	r=	**0.99999**		**r=**	**0.99999**

Calculations

Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	**Va=**	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/ΔTime	**Qa=**	Va/ΔTime

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= $1/m\left(\left(\sqrt{\Delta H(Ta/Pa)}\right)-b\right)$

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

Tisch Environmental, Inc.
145 South Miami Avenue
Village of Cleves, OH 45002

www.tisch-env.com
TOLL FREE: (877)263-7610
FAX: (513)467-9009

Noise

Certificate of Calibration

for

Description:	*Sound Level Meter*
Manufacturer:	*NTi Audio*
Type No.:	*XL2 (Serial No.: A2A-17638-E0)*
Microphone:	*ACO 7052 (Serial No.:73912)*
Preamplifier:	*NTi Audio M2211 MA220 (Serial No.:10390)*

Submitted by:

Customer:	*Aurecon Hong Kong Limited*
Address:	*Unit 1608, 16/F, Tower B, Manulife Financial Centre,*
	223-231 Wai Yip Street, Kwun Tong,
	Kowloon, Hong Kong

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

☑ **Within (31.5Hz – 8kHz)**
☐ **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: 21 March 2024

Date of calibration: 27 March 2024

Date of NEXT calibration: 26 March 2025

*Calibrated by:*_____
Calibration Technician

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

Date of issue: 27 March 2024

Certificate No.: APJ23-155-CC001

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong
Tel: (852) 2668 3423 Fax:(852) 2668 6946
Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

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: 22.5 °C
Air Pressure: 1005 hPa
Relative Humidity: 69.8 %

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

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong
Tel: (852) 2668 3423 Fax:(852) 2668 6946
Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

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	Fast	94	31.5	94.2	±2.0
				63	94.2	±1.5
				125	94.1	±1.5
				250	94.1	±1.4
				500	94.1	±1.4
				1000	94.1	Ref
				2000	94.4	±1.6
				4000	95.3	±1.6
				8000	94.9	+2.1; -3.1

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	Fast	94	31.5	55.0	-39.4 ±2.0
				63	68.0	-26.2 ±1.5
				125	78.0	-16.1 ±1.5
				250	85.4	-8.6 ±1.4
				500	90.9	-3.2 ±1.4
				1000	94.1	Ref
				2000	95.6	+1.2 ±1.6
				4000	96.3	+1.0 ±1.6
				8000	93.8	-1.1+2.1; -3.1

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	Fast	94	31.5	91.2	-3.0 ±2.0
				63	93.4	-0.8 ±1.5
				125	93.9	-0.2 ±1.5
				250	94.1	-0.0 ±1.4
				500	94.2	-0.0 ±1.4
				1000	94.1	Ref
				2000	94.3	-0.2 ±1.6
				4000	94.5	-0.8 ±1.6
				8000	91.9	–3.0 +2.1: –3.1

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong
Tel: (852) 2668 3423 Fax:(852) 2668 6946
Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

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	± 0.10
	63 Hz	± 0.05
	125 Hz	± 0.05
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
	8000 Hz	± 0.10
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.

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong
Tel: (852) 2668 3423 Fax:(852) 2668 6946
Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

Certificate of Calibration

for

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

Submitted by:

Customer:	*Aurecon Hong Kong Limited*
Address:	*Unit 1608, 16/F, Tower B, Manulife Financial Centre,*
	223-231 Wai Yip Street, Kwun Tong,
	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: 22 July 2024

Date of calibration: 24 July 2024

Date of NEXT calibration: 23 July 2025

Calibrated by: _____
Calibration Technician

Certified by: _____
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: **24 July 2024**

Certificate No.: APJ23-154-CC003

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong
Tel: (852) 2668 3423 Fax:(852) 2668 6946
Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

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:	23.4 °C
Air Pressure:	1005 hPa
Relative Humidity:	56.7 %

4. *Calibration Equipment:*

Test Equipment	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV230128	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.

ACOUSTICS AND AIR TESTING LABORATORY CO. LTD. (A+A)*L

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong
Tel: (852) 2668 3423 Fax:(852) 2668 6946
Homepage: http://www.aa-lab.com E-mail : inquiry@aa-lab.com

Hong Kong Calibration Ltd.
香 港 校 正 有限公司

A1

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 ± 3)°C **Relative Humidity :** (50 ± 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:

Equipment No.	Description	Cert. No.	Traceable to
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

Date: 13-Feb-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

E

Calibration Certificate

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-BD080044
Date of Issue : 16 August 2024

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 :	YSI ProDSS Multi Parameters
Manufacturer :	YSI
Serial Number :	24G101659
Date of Received :	15 August 2024
Date of Calibration :	16 August 2024
Date of Next Calibration :	16 November 2024
Request No. :	D-BD080044

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 21e 2520 B
Dissolved oxygen	APHA 23e 4500-O G (Membrane Electrode Method)
Oxidation-Reduction Potential	APHA 22e 2580 B
Turbidity	APHA 21e 2130 B (Nephelometric Method)

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	3.96	-0.04	Satisfactory
7.42	7.32	-0.10	Satisfactory
10.01	9.95	-0.06	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
18.0	17.8	-0.2	Satisfactory
26.0	25.2	-0.8	Satisfactory
32.0	31.0	-1.0	Satisfactory

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

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.75	-2.50	Satisfactory
20	19.76	-1.20	Satisfactory
30	29.92	-0.27	Satisfactory

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

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning
Assistant Manager

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-BD080044
Date of Issue : 16 August 2024

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
8.09	8.17	0.08	Satisfactory
7.53	7.97	0.44	Satisfactory
6.52	6.55	0.03	Satisfactory
0.72	1.05	0.33	Satisfactory

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

(5) Oxidation-Reduction Potential

Expected Reading	Display Reading	Tolerance	Result
229	225.4	-3.6	Satisfactory

Tolerance of Oxidation-Reduction Potential should be less than ± 10.0 (mV)

(6) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance [a] (%)	Result
0	0.40	--	--
10	9.24	-7.6	Satisfactory
20	19.63	-1.9	Satisfactory
100	94.80	-5.2	Satisfactory
800	738.22	-7.7	Satisfactory

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

[a] For 0 NTU, Display Reading should be less than 1 NTU

Remark(s)

·The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form 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 form relevant international standards.

--- END OF REPORT ---

Hong Kong Calibration Ltd.
香 港 校 正 有限公司

Calibration Certificate

Certificate No. 400718

Customer : Acumen Laboratory and Testing Limited

Address : Flat / RM D, 12/F, Ford Glory Plaza, Nos. 37-39 Wing Hong Street, Cheung Shan Wan, Kowloon, Hong Kong

Order No. : Q40331 **Date of receipt :** 24-Jan-24

Item Tested

Description : Flow Probe
Manufacturer : Global Water
Model : FP111
I.D. : --
Serial No. : 22K100859

Test Conditions

Date of Test : 25-Jan-24
Ambient Temperature : 15°C
Supply Voltage : --
Relative Humidity : 48%

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:

Equipment No.	Description	Cert. No.	Traceable to
S179	Std. Tape	301321	NIM-PRC
S136A	Stop Watch	303116	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 : Steve Kwan

Date: 26-Jan-24

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

Hong Kong Calibration Ltd.
香 港 校 正 有限公司

Calibration Certificate

Certificate No. 400718

Results :

Applied Value (m/s)	UUT Reading (m/s)	Mfr's Spec.
0.58	0.6	± 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

Asia Pacific Industrial Safety Equipment

Tel: 2592 2100 Fax: 3165 8960

Calibration Certificate

Cert. Ref. No.: BLS/G7C/01/1125 Date: 31/7/2024

Customer: New Concepts Eng Dev Ltd

Attn: Victor Tel: 9840 3136 Fax:
User Details:

Gas Detector Model: Blackline Safety G7C-EU2 Serial No: 3571220922 CART ID: 334341
Calibration Record: Act. Code: L6R 7HB

Inpection before calibration	Visual inspection	Functional Test
Basic Unit - Case, Clip & Display etc.	OK	OK
Battery and charge etc.	OK	OK
Motorized Pump	OK	OK
Other items	-	-

Type of Sensor	Expiry Date
Oxygen Sensor	
CO Sensor	
H2S Sensor	
Combustible (LEL) Sensor	
Carbon Dioxide (CO2) Sensor	

Type of calibration	Date of calibratic	H2S (ppm)	CO (ppm)	O2 (%)	LEL (%)	CO2 (ppm)
SENSOR Calibration	31/7/2024	25	100	18	50	5000
		OK	**OK**	**OK**	**OK**	**OK**

Calibratrion remarks: Please contact the service centre before 15/11/2024 to receive instructions for updating the gas alarm point to meet the latest COP for Confined Space.

Blackline Safety Recommended Next Calibration Date*: **27/1/2025**

*The calibration Schedule can be configured to match your company's safety policy and Blackline Safety recommends not exeeding 180 days without a calibration

IMPORTANT NOTES TO Blackline Safety GAS DETECTOR USERS

USERS MUST READ THE OPERATOR'S MANUAL THOROUGHLY BEFORE OPERATING THIS EQUIPMENT AND FOLLOW THEIR OWIN SAFETY SUPERVISOR'S INSTRUCTION TO WORK.

All gas detection instrumentation on the market requires periodic calibration to accurately measure gas. Calibration is only as accurate as the test gas used. Blackline Safety quality test gases are made to the highest accuracy and trace-ability to N.I.S.T. Standard.

Calibration By: **Mind Lau**

ASIA PACIFIC INDUSTRIAL SAFETY EQUIPMENT 亞太工業安全設備

Services Hotline : 2592 2100

Appendix F Monitoring Results

Air Quality

1-hour TSP Concentration (μg/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) μg/m^3	Reading (2) μg/m^3	Reading (3) μg/m^3	Average μg/m^3	Action Level μg/m^3	Limit Level μg/m^3
4/10/2024	Sibata LD-5R	882106	1.0437	Fine	13:09	14:09	15:09	21	24	20	22	285	500
9/10/2024	Sibata LD-5R	0Z4545	1.0451	Fine	13:15	14:15	15:15	26	28	24	26		
14/10/2024	Sibata LD-5R	0Z4545	1.0451	Fine	13:16	14:16	15:16	23	26	22	24		
19/10/2024	Sibata LD-5R	882106	1.0437	Fine	8:10	9:10	10:10	28	31	29	29		
25/10/2024	Sibata LD-5R	0Z4545	1.0451	Fine	13:10	14:10	15:10	19	21	18	19		
31/10/2024	Sibata LD-5R	882106	1.0437	Fine	8:16	9:16	10:16	23	24	22	23		
							Average	**24**					
							Max.	**31**					
							Min.	**18**					

1-hour TSP Concentration (μg/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) μg/m^3	Reading (2) μg/m^3	Reading (3) μg/m^3	Average μg/m^3	Action Level μg/m^3	Limit Level μg/m^3
4/10/2024	Sibata LD-5R	0Z4545	1.0451	Fine	13:22	14:22	15:22	34	35	33	34	279	500
9/10/2024	Sibata LD-5R	882106	1.0437	Fine	13:25	14:25	15:25	39	40	38	39		
14/10/2024	Sibata LD-5R	882106	1.0437	Fine	13:27	14:27	15:27	39	41	44	41		
19/10/2024	Sibata LD-5R	0Z4545	1.0451	Fine	8:45	9:45	10:45	39	40	31	37		
25/10/2024	Sibata LD-5R	882106	1.0437	Fine	13:35	14:35	15:35	40	41	43	41		
31/10/2024	Sibata LD-5R	0Z4545	1.0451	Fine	8:45	9:45	10:45	39	31	38	36		
							Average	**38**					
							Max.	**44**					
							Min.	**31**					

1-hour TSP Concentration (μg/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) μg/m^3	Reading (2) μg/m^3	Reading (3) μg/m^3	Average μg/m^3	Action Level μg/m^3	Limit Level μg/m^3
4/10/2024	Sibata LD-5R	942532	1.1020	Fine	13:30	14:30	15:30	43	44	38	42	285	500
9/10/2024	Sibata LD-5R	942532	1.1020	Fine	13:05	14:05	15:05	45	50	41	45		
14/10/2024	Sibata LD-5R	942532	1.1020	Fine	13:01	14:01	15:01	56	54	49	53		
19/10/2024	Sibata LD-5R	942532	1.1020	Fine	8:26	9:26	10:26	45	46	42	44		
25/10/2024	Sibata LD-5R	942532	1.1020	Fine	13:25	14:25	15:25	49	50	51	50		
31/10/2024	Sibata LD-5R	942532	1.1020	Fine	8:29	9:29	10:29	41	40	43	41		
							Average	**46**					
							Max.	**56**					
							Min.	**38**					

The Summary of TSP 24-hour Concentration (μg/m^3) at Location AM1

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time	Averaged Flow Rate	Averaged Flow Rate	Total Flow Volume	Filter Weight (g)		Particulate weight	Concentration	Action Level	Limit Level
		(℃)	(hPa)	Initial	Final	(minutes)	(cfm)	(m^3/min)	(m^3)	Initial	Final	(g)	(μg/m^3)	(μg/m^3)	(μg/m3)
4/10/2024	Fine	31.2	1013.9	3870.56	3894.56	1440	39	0.6	858	2.6722	2.7730	0.1008	118	164	260
9/10/2024	Fine	26.7	1013.3	3904.43	3928.43	1440	41	0.7	983	2.7126	2.8223	0.1097	112		
14/10/2024	Fine	28.1	1013.6	3938.41	3962.41	1440	41	0.7	951	2.6785	2.7871	0.1086	114		
19/10/2024	Fine	28.6	1015.3	3972.33	3996.33	1440	41	0.7	980	2.6809	2.8043	0.1234	126		
25/10/2024	Fine	26.3	1006.7	4006.19	4030.19	1440	42	0.7	997	2.7158	2.8194	0.1036	104		
31/10/2024	Fine	27.0	1007.9	4041.06	4065.06	1440	41	0.8	1151	2.6744	2.8029	0.1285	112		
												Average	**114**		
												Min	**104**		
												Max	**126**		

The Summary of 24-hour TSP Concentration (μg/m^3) at Location AM2

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time	Averaged Flow Rate	Flow Rate	Total Flow Volume	Filter Weight (g)		Particulate weight	Concentration	Action Level	Limit Level
		(℃)	(hPa)	Initial	Final	(minutes)	(cfm)	(m^3/min)	(m^3)	Initial	Final	(g)	(μg/m^3)	(μg/m^3)	(μg/m3)
4/10/2024	Fine	31.2	1013.9	3569.60	3593.60	1440	43	0.7	1045	2.7155	2.8420	0.1265	121	164	260
9/10/2024	Fine	26.7	1013.3	3604.49	3628.49	1440	42	0.7	1013	2.6916	2.8084	0.1168	115		
14/10/2024	Fine	28.1	1013.6	3639.38	3663.38	1440	43	0.7	1054	2.6969	2.8304	0.1335	127		
19/10/2024	Fine	28.6	1015.3	3674.25	3698.25	1440	43	0.7	1056	2.6710	2.8147	0.1437	136		
25/10/2024	Fine	26.3	1006.7	3710.92	3734.92	1440	42	0.7	1024	2.7028	2.8226	0.1198	117		
31/10/2024	Fine	27.0	1007.9	3746.81	3770.81	1440	42	0.8	1088	2.6854	2.8098	0.1244	114		
												Average	**122**		
												Min	**114**		
												Max	**136**		

The Summary of 24-hour TSP Concentration (μg/m^3) at Location AM3

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time	Averaged Flow Rate	Flow Rate	Total Flow Volume	Filter Weight (g)		Particulate weight	Concentration	Action Level	Limit Level
		(℃)	(hPa)	Initial	Final	(minutes)	(cfm)	(m^3/min)	(m^3)	Initial	Final	(g)	(μg/m^3)	(μg/m^3)	(μg/m3)
4/10/2024	Fine	31.2	1013.9	4451.35	4475.35	1440	41	0.7	951	2.6802	2.7977	0.1175	124	164	260
9/10/2024	Fine	26.7	1013.3	4486.14	4510.14	1440	42	0.7	1029	2.6974	2.8212	0.1238	120		
14/10/2024	Fine	28.1	1013.6	4520.92	4544.92	1440	40	0.6	902	2.6964	2.8144	0.1180	131		
19/10/2024	Fine	28.6	1015.3	4555.20	4579.20	1440	41	0.6	935	2.6910	2.8186	0.1276	137		
25/10/2024	Fine	26.3	1006.7	4591.17	4615.17	1440	40	0.6	892	2.7116	2.8264	0.1148	129		
31/10/2024	Fine	27.0	1007.9	4626.73	4650.73	1440	41	0.8	1128	2.6897	2.8242	0.1345	119		
												Average	**127**		
												Min	**119**		
												Max	**137**		

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
9/10/2024	Fine	1.4	13:00	13:30	61	59.4	58.1	60.3	58.1	59.2	59.5	62.3	62.4	61.9	62.4	60.2	62.6	58.0	57.4	56.1	58.3	56.1	57.2
14/10/2024	Fine	1.4	14:00	14:30	59.4	61.8	61.4	60.8	61.7	61.4	61.2	61.4	63.8	63.9	62.2	63.3	63.4	57.4	59.8	59.4	58.8	59.7	59.4
25/10/2024	Fine	1.9	14:00	14:30	60.2	59.2	58.3	60.3	61.2	61.6	60.3	61.9	61.6	60.6	62.3	63.2	62.9	59.2	58.2	57.1	58.2	60.1	60.3
31/10/2024	Fine	1.1	10:00	10:30	61.2	60.3	59.2	58.6	59.1	60.3	59.9	62.9	61.9	61.4	59.1	60.2	62.3	60.3	59.2	58.2	57.6	57.4	58.4

Average	60.2
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
9/10/2024	Fine	1.5	9:30	10:00	54.3	52.1	53.2	53.9	54.2	54.6	53.8	55.8	53.6	54.7	55.0	55.7	56.1	52.3	50.1	51.2	51.9	52.2	52.6
14/10/2024	Fine	1.2	9:01	9:31	50.2	51.3	49.4	48.6	48.1	49.3	49.6	51.2	52.3	50.4	49.6	49.1	50.3	49.2	50.3	48.1	47.6	47.1	48.3
25/10/2024	Fine	1.2	9:00	9:30	53.6	54.1	54.6	53.2	54.5	54.6	54.1	55.6	56.2	56.9	55.9	56.9	55.9	51.6	52.6	52.1	51.9	53.2	53.6
31/10/2024	Fine	1.2	15:00	15:30	54.5	53.5	53.3	54.2	54.6	53.9	54.0	55.5	55.6	54.9	54.9	55.8	54.5	53.2	52.5	52.4	53.1	52.6	51.9

Average	53.2
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
9-Oct-24	11:18	Fine	0.07	2.0	23.3	8.2	<7.4	<4	7.2	>7.7	>7.8	2.9	>9.2	>9.5	2.7	>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
9-Oct-24	8:17	Fine	0.40	2.0	24.2	8.0	<5	<4	7.2	>7.6	>7.7	5.6	>108.3	>108.9	4.6	>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

5.Surface water quality monitoring at WM1 on 11 July 2024 changed to 19 July 2024 due to the security consideration of overgrown lawn.

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

CERTIFICATE OF ANALYSIS

Client	: ACUMEN LABORATORY AND TESTING LIMITED	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 9
Contact	: HUNTINGTON HUI	Contact	: Richard Fung	Work Order	: HK2441268
Address	: WORKSHOP 04,7/F, THE WHITNEY NO.183 WAI YIP STREET KWUN TONG, KOWLOON	Address	: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong		
E-mail	: Huntington.Hui@aurecongroup.com	E-mail	: richard.fung@alsglobal.com		
Telephone	: ----	Telephone	: +852 2610 1044		
Facsimile	: ----	Facsimile	: +852 2610 2021		
Project	: NENTX			Date Samples Received	: 09-Oct-2024
Order number	: ----	Quote number	: HKE/2751/2022_V4	Issue Date	: 24-Oct-2024
C-O-C number	: ----			No. of samples received	: 2
Site	:			No. of samples analysed	: 2

This document has been signed by those names that appear on this report and are the authorised signatories.

Signatories	*Position*	*Authorised results for*
Fung Lim Chee, Richard	Managing Director	Inorganics
Fung Lim Chee, Richard	Managing Director	Metals_ENV
Ng Sin Kou, May	Laboratory Manager	Microbiology_ENV

General Comments

This report supersedes any previous report(s) with the same work order number. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. Testing period is from 09-Oct-2024 to 24-Oct-2024.

Key: LOR = Limit of reporting; CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

Specific Comments for Work Order: HK2441268

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified. The result(s) is/are related only to the item(s) tested.

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in chilled condition.

Microbiological sample(s) was/ were collected in 250mL sterile plastic bottles containing sodium thiosulfate. Sample(s) arrived at the laboratory at 14:45.

NOT DETECTED denotes result(s) is (are) less than the Limit of Report (LOR).

ED037 - Titration end point for Total Alkalinity is pH 4.5 while end point for Total Alkalinity <20mg/L is pH 4.2.

Water sample(s) digested by in-house method E-3005 prior to the determination of total metals. The in-house method is developed based on USEPA method 3005.

EA025 - The accredited LOR of Total Suspended Solids is 0.5mg/L. Results below this LOR are for reference only.

Analytical Results

Sub-Matrix: **WATER**

Compound	CAS Number	LOR	Unit	Sample ID	WM 1	WM 2	----	----	----
				Sampling date / time	09-Oct-2024	09-Oct-2024	----	----	----
					HK2441268-001	HK2441268-002	-------	-------	-------
EA/ED: Physical and Aggregate Properties									
EA025: Suspended Solids (SS)	----	0.1	mg/L		2.7	4.6	----	----	----
ED037: Total Alkalinity as CaCO3	----	1	mg/L		16	28	----	----	----
ED/EK: Inorganic Nonmetallic Parameters									
ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L		2	12	----	----	----
ED045K: Chloride	16887-00-6	0.5	mg/L		6	5	----	----	----
EK055K: Ammonia as N	7664-41-7	0.01	mg/L		0.02	0.20	----	----	----
EK058A: Nitrate as N	14797-55-8	0.01	mg/L		0.03	0.13	----	----	----
EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L		0.2	0.6	----	----	----
EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L		0.01	<0.01	----	----	----
EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L		<2	<2	----	----	----
EP: Aggregate Organics									
EP005: Total Organic Carbon	----	1	mg/L		1	2	----	----	----
EP020: Oil & Grease	----	5	mg/L		<5	<5	----	----	----
EP026C: Chemical Oxygen Demand	----	5	mg/L		6	7	----	----	----
EP030: Biochemical Oxygen Demand	----	2	mg/L		2	<2	----	----	----
EG: Metals and Major Cations - Total									
EG020: Cadmium	7440-43-9	0.2	µg/L		<0.2	<0.2	----	----	----
EG020: Copper	7440-50-8	1	µg/L		1	2	----	----	----
EG020: Lead	7439-92-1	1	µg/L		<1	<1	----	----	----
EG020: Manganese	7439-96-5	1	µg/L		22	678	----	----	----
EG020: Nickel	7440-02-0	1	µg/L		<1	<1	----	----	----
EG020: Zinc	7440-66-6	10	µg/L		<10	23	----	----	----
EG032: Calcium	7440-70-2	50	µg/L		3100	11600	----	----	----
EG032: Iron	7439-89-6	10	µg/L		250	1200	----	----	----
EG032: Magnesium	7439-95-4	50	µg/L		470	910	----	----	----
EG032: Potassium	7440-09-7	50	µg/L		360	1370	----	----	----
EG032: Sodium	7440-23-5	50	µg/L		7290	5560	----	----	----
EM: Microbiological Testing									
EM002: E. coli	----	1	CFU/100mL		82	150	----	----	----

Sub-Matrix: WATER			Sample ID	WM 1	WM 2	----	----	----
			Sampling date / time	09-Oct-2024	09-Oct-2024	----	----	----
Compound	CAS Number	LOR	Unit	HK2441268-001	HK2441268-002	--------	--------	--------
EM: Microbiological Testing - Continued								
EM003: Total Coliforms	----	1	CFU/100mL	290	450	----	----	----

-------- END OF REPORT --------

Laboratory Duplicate (DUP) Report

In the Laboratory Duplicate (DUP) report, RPD (%) of sample duplicate reporting "0.0" denotes that the difference between unrounded results of the sample and its duplicate analyses is less than the value of the limit of reporting of the specific testing. The RPD (%) meets the quality control requirement of the corresponding testing procedure.

Matrix: **WATER**

				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 6117377)								
HK2441687-001	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	4.4	4.4	0.0
HK2441526-008	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	14.4	14.1	1.8
EA/ED: Physical and Aggregate Properties (QC Lot: 6118781)								
HK2441388-001	Anonymous	ED037: Total Alkalinity as CaCO3	----	1	mg/L	766	757	1.2
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6111058)								
HK2441102-001	Anonymous	EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	0.01	0.01	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6111064)								
HK2441268-001	WM 1	ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	2	2	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6111065)								
HK2441268-001	WM 1	ED045K: Chloride	16887-00-6	1	mg/L	6	6	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6124260)								
HK2441268-001	WM 1	EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.2	0.1	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6124446)								
HK2440753-001	Anonymous	EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	<2	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6127755)								
HK2442413-001	Anonymous	EK055K: Ammonia as N	7664-41-7	0.01	mg/L	23.4	25.0	6.8
EP: Aggregate Organics (QC Lot: 6131268)								
HK2441428-001	Anonymous	EP026C: Chemical Oxygen Demand	----	5	mg/L	248	244	1.4
EP: Aggregate Organics (QC Lot: 6132911)								
HK2441005-001	Anonymous	EP005: Total Organic Carbon	----	1	mg/L	16	16	0.0
EG: Metals and Major Cations - Total (QC Lot: 6110906)								
HK2441268-002	WM 2	EG032: Iron	7439-89-6	10	µg/L	1200	1190	0.0
		EG032: Calcium	7440-70-2	50	µg/L	11600	11600	0.0
		EG032: Magnesium	7439-95-4	50	µg/L	910	900	0.0
		EG032: Potassium	7440-09-7	50	µg/L	1370	1370	0.0
		EG032: Sodium	7440-23-5	50	µg/L	5560	5560	0.0
EG: Metals and Major Cations - Total (QC Lot: 6110907)								
HK2441268-002	WM 2	EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0

Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations - Total (QC Lot: 6110907) - Continued								
HK2441268-002	WM 2	**EG020: Copper**	7440-50-8	1	µg/L	2	2	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Manganese	7439-96-5	1	µg/L	678	694	2.3
		EG020: Nickel	7440-02-0	1	µg/L	<1	<1	0.0
		EG020: Zinc	7440-66-6	10	µg/L	23	26	12.4

Method Blank (MB), Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 6117377)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	10 mg/L	105	----	84.9	114	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 6118781)											
ED037: Total Alkalinity as CaCO3	----	1	mg/L	<1	50 mg/L	101	----	95.0	105	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6111058)											
EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	97.8	----	92.4	106	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6111064)											
ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	<1	5 mg/L	98.9	----	93.1	113	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6111065)											
ED045K: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	98.3	----	88.2	108	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6124260)											
EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	0.5 mg/L	105	----	88.9	119	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6124446)											
EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	----	----	----	----	----	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6127755)											
EK055K: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	101	----	89.3	109	----	----
EP: Aggregate Organics (QC Lot: 6111884)											
EP030: Biochemical Oxygen Demand	----	----	mg/L	----	198 mg/L	103	----	77.6	118	----	----
EP: Aggregate Organics (QC Lot: 6131268)											

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
					Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EP: Aggregate Organics (QC Lot: 6131268) - Continued											
EP026C: Chemical Oxygen Demand	----	----	mg/L	----	25 mg/L	100	----	92.0	108	----	----
				----	250 mg/L	99.0	----	92.3	106	----	----
EP: Aggregate Organics (QC Lot: 6132911)											
EP005: Total Organic Carbon	----	1	mg/L	<1	5 mg/L	105	----	81.7	124	----	----
				<1	100 mg/L	97.6	----	84.8	114	----	----
EP: Aggregate Organics (QC Lot: 6133878)											
EP020: Oil & Grease	----	2	mg/L	<2	20 mg/L	100.0	----	79.1	108	----	----
EG: Metals and Major Cations - Total (QC Lot: 6110906)											
EG032: Calcium	7440-70-2	50	µg/L	<50	2000 µg/L	101	----	85.0	115	----	----
EG032: Iron	7439-89-6	10	µg/L	<10	2000 µg/L	103	----	85.0	115	----	----
EG032: Magnesium	7439-95-4	50	µg/L	<50	2000 µg/L	103	----	85.0	115	----	----
EG032: Potassium	7440-09-7	50	µg/L	<50	2000 µg/L	95.2	----	85.0	115	----	----
EG032: Sodium	7440-23-5	50	µg/L	<50	2000 µg/L	103	----	85.0	115	----	----
EG: Metals and Major Cations - Total (QC Lot: 6110907)											
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	5 µg/L	104	----	85.0	109	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	50 µg/L	108	----	90.0	111	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	50 µg/L	103	----	89.0	111	----	----
EG020: Manganese	7439-96-5	1	µg/L	<1	50 µg/L	103	----	85.0	115	----	----
EG020: Nickel	7440-02-0	1	µg/L	<1	50 µg/L	107	----	87.0	110	----	----
EG020: Zinc	7440-66-6	10	µg/L	<10	50 µg/L	104	----	86.0	114	----	----

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Matrix: **WATER**

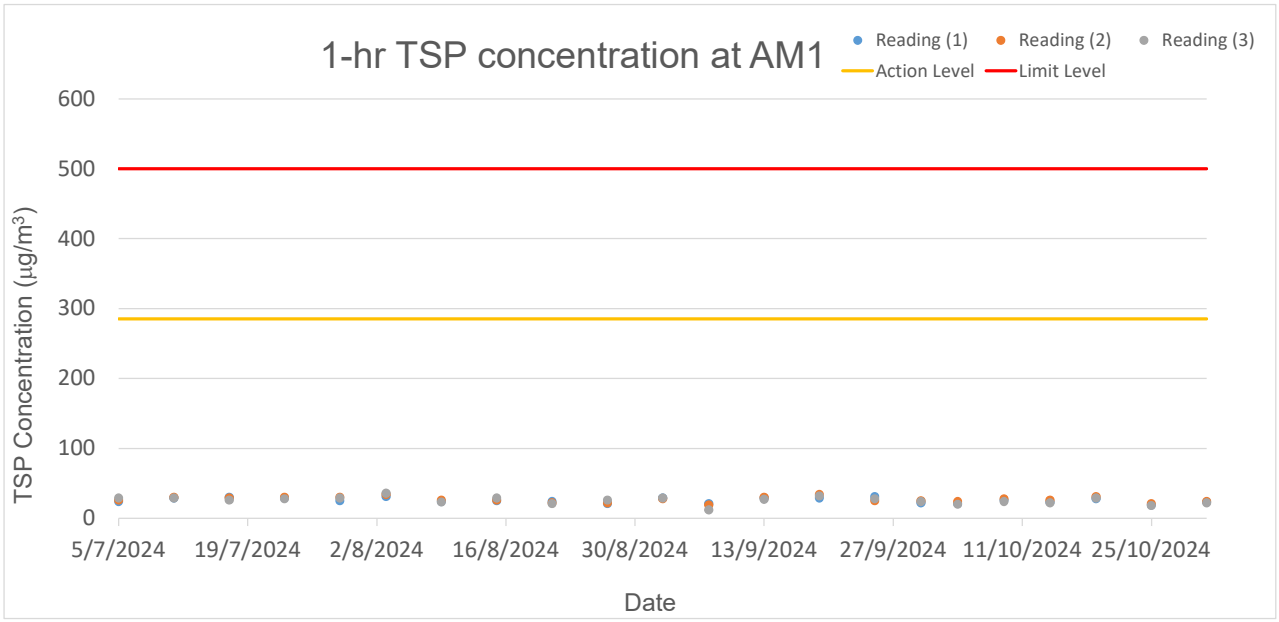
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6111058)										
HK2441102-001	Anonymous	EK071K: Reactive Phosphorus as P	14265-44-2	0.5 mg/L	104	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6111064)										
HK2441268-001	WM 1	ED041K: Sulphate as SO4 - Turbidimetric	----	5 mg/L	89.7	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6111065)										
HK2441268-001	WM 1	ED045K: Chloride	16887-00-6	5 mg/L	90.3	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6124260)										
HK2441268-001	WM 1	EK061A: Total Kjeldahl Nitrogen as N	----	0.5 mg/L	98.5	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 6127755)										
HK2442413-001	Anonymous	EK055K: Ammonia as N	7664-41-7	50 mg/L	111	----	75.0	125	----	----
EP: Aggregate Organics (QC Lot: 6131268)										
HK2441428-001	Anonymous	EP026C: Chemical Oxygen Demand	----	100 mg/L	92.4	----	75.0	125	----	----
EP: Aggregate Organics (QC Lot: 6132911)										
HK2440995-001	Anonymous	EP005: Total Organic Carbon	----	25 mg/L	101	----	75.0	125	----	----
EG: Metals and Major Cations - Total (QC Lot: 6110906)										
HK2441268-001	WM 1	EG032: Calcium	7440-70-2	2000 µg/L	97.4	----	75.0	125	----	----
		EG032: Iron	7439-89-6	2000 µg/L	101	----	75.0	125	----	----
		EG032: Magnesium	7439-95-4	2000 µg/L	100	----	75.0	125	----	----
		EG032: Potassium	7440-09-7	2000 µg/L	94.4	----	75.0	125	----	----
		EG032: Sodium	7440-23-5	2000 µg/L	94.9	----	75.0	125	----	----
EG: Metals and Major Cations - Total (QC Lot: 6110907)										
HK2441268-001	WM 1	EG020: Cadmium	7440-43-9	5 µg/L	103	----	75.0	125	----	----
		EG020: Copper	7440-50-8	50 µg/L	106	----	75.0	125	----	----
		EG020: Lead	7439-92-1	50 µg/L	99.4	----	75.0	125	----	----
		EG020: Manganese	7439-96-5	50 µg/L	105	----	75.0	125	----	----
		EG020: Nickel	7440-02-0	50 µg/L	103	----	75.0	125	----	----

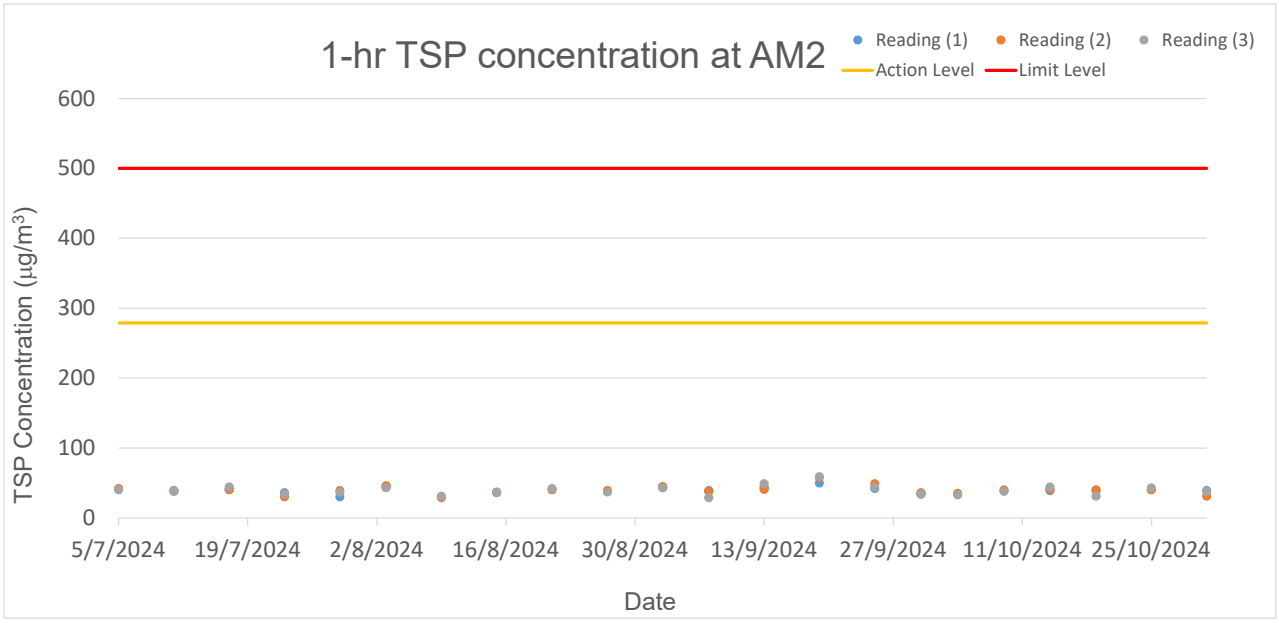
Matrix: **WATER**

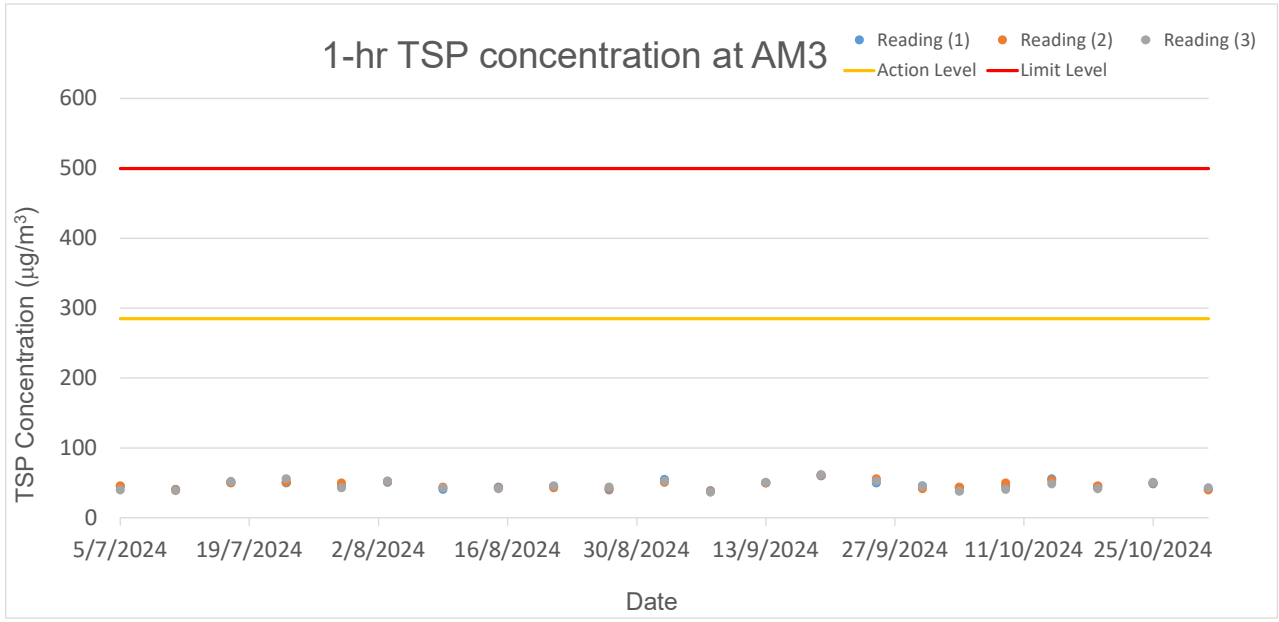
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report										
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number		MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations - Total (QC Lot: 6110907) - Continued										
HK2441268-001	WM 1	EG020: Zinc	7440-66-6	50 µg/L	110	----	75.0	125	----	----

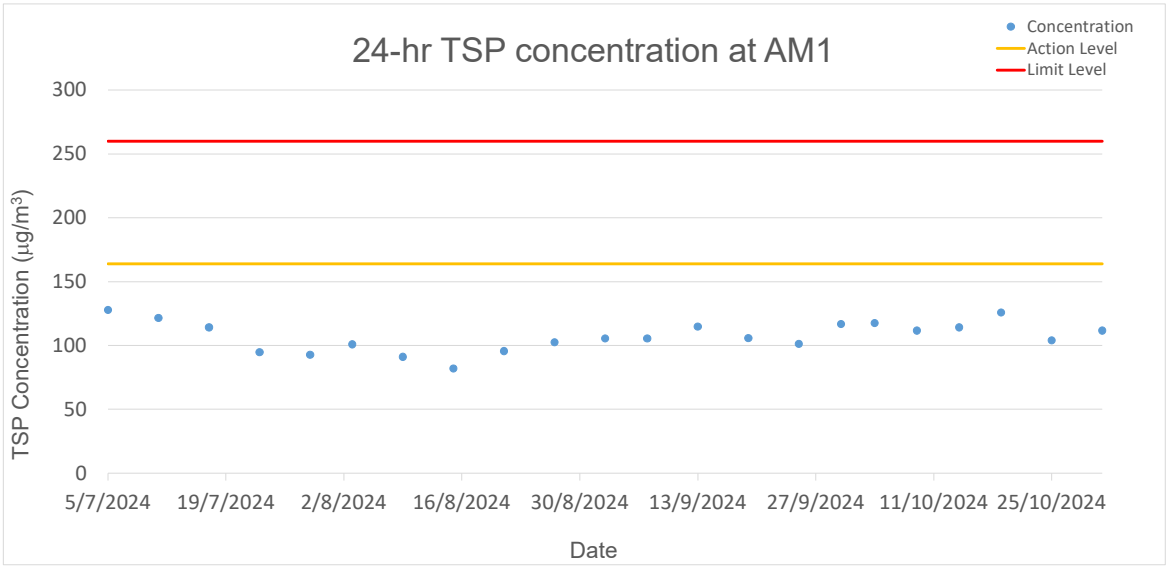
Appendix G Graphical Presentations

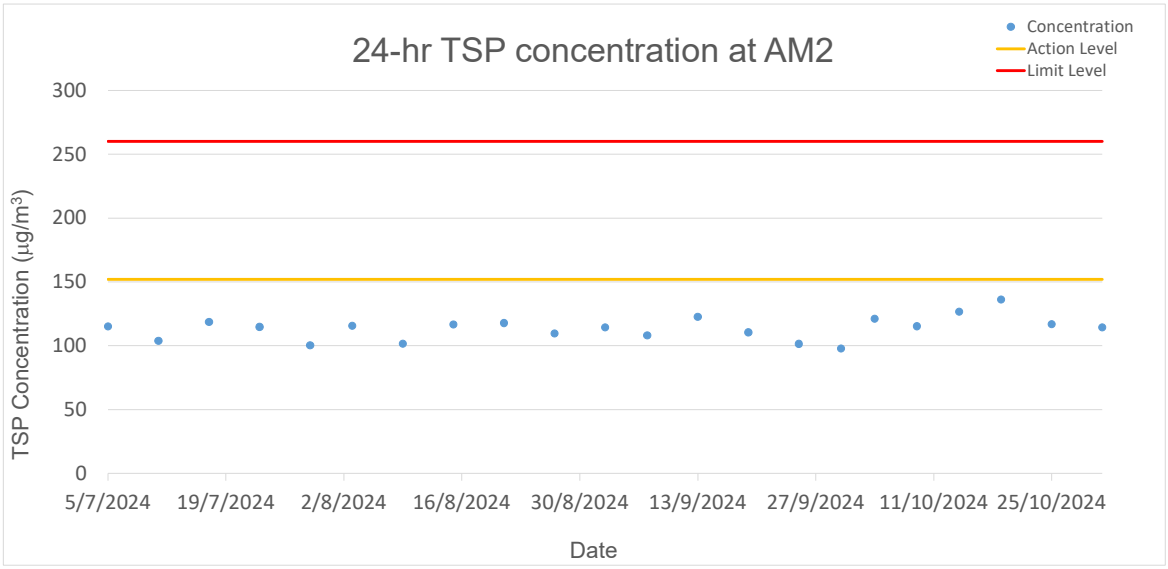
Air Quality

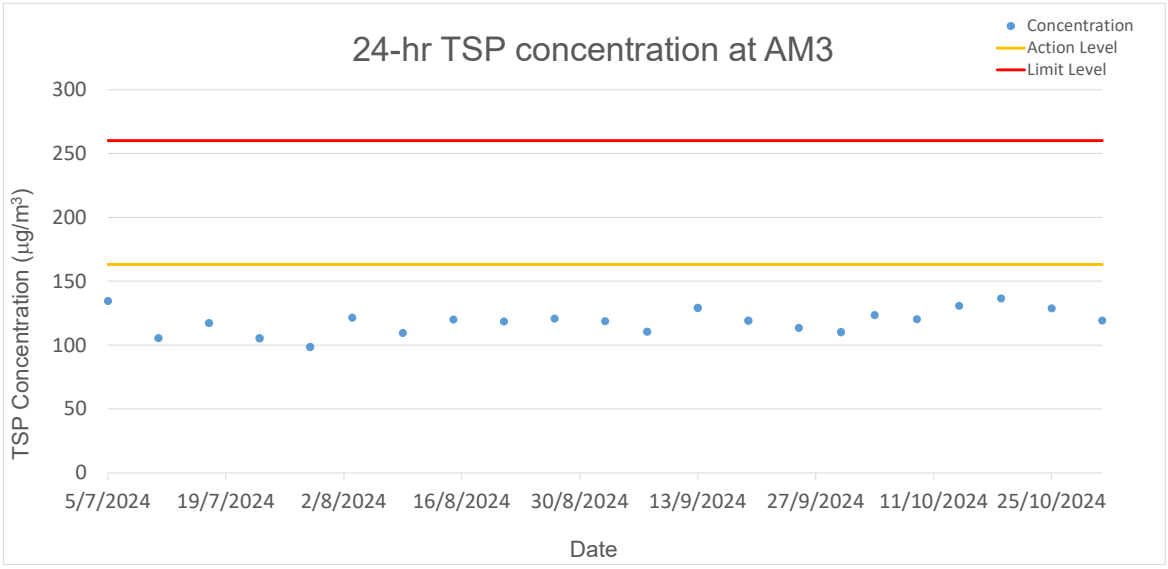

1-hr TSP concentration at AM1
Reading (1)
Reading (2)
Reading (3)
Action Level
Limit Level
TSP Concentration (µg/m³)
600
500
400
300
200
100
0
5/7/2024
19/7/2024
2/8/2024
16/8/2024
30/8/2024
13/9/2024
27/9/2024
11/10/2024
25/10/2024
Date


1-hr TSP concentration at AM2
Reading (1)
Reading (2)
Reading (3)
Action Level
Limit Level
TSP Concentration (µg/m³)
600
500
400
300
200
100
0
5/7/2024
19/7/2024
2/8/2024
16/8/2024
30/8/2024
13/9/2024
27/9/2024
11/10/2024
25/10/2024
Date

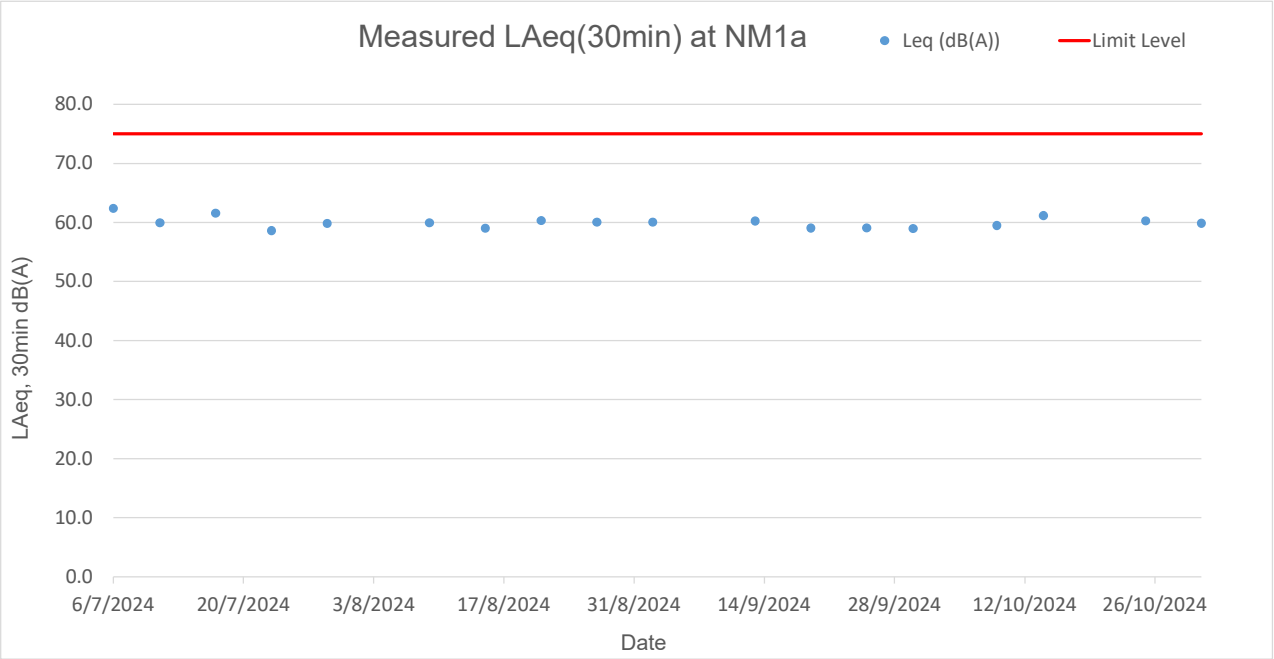

1-hr TSP concentration at AM3
Reading (1)
Reading (2)
Reading (3)
Action Level
Limit Level
TSP Concentration (µg/m³)
600
500
400
300
200
100
0
5/7/2024
19/7/2024
2/8/2024
16/8/2024
30/8/2024
13/9/2024
27/9/2024
11/10/2024
25/10/2024
Date

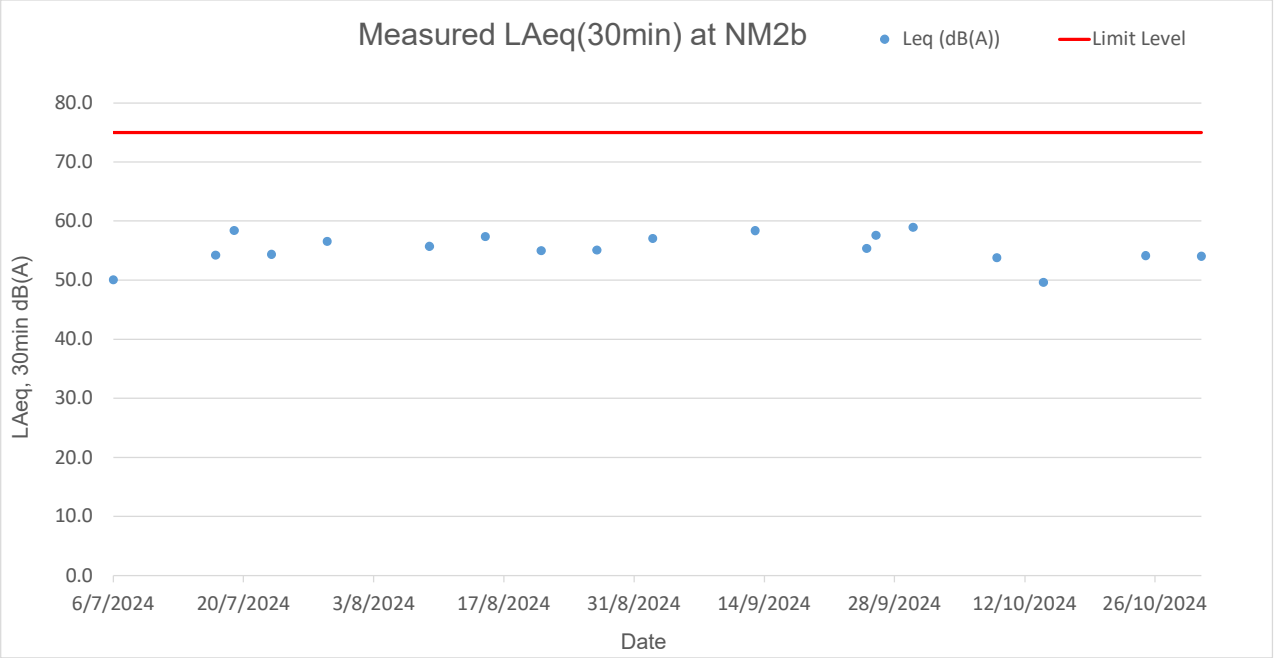

24-hr TSP concentration at AM1
Concentration
Action Level
Limit Level
TSP Concentration (µg/m³)
300
250
200
150
100
50
0
5/7/2024
19/7/2024
2/8/2024
16/8/2024
30/8/2024
13/9/2024
27/9/2024
11/10/2024
25/10/2024
Date


24-hr TSP concentration at AM2
Concentration
Action Level
Limit Level
TSP Concentration (µg/m³)
300
250
200
150
100
50
0
5/7/2024
19/7/2024
2/8/2024
16/8/2024
30/8/2024
13/9/2024
27/9/2024
11/10/2024
25/10/2024
Date


24-hr TSP concentration at AM3
Concentration
Action Level
Limit Level
TSP Concentration (µg/m³)
300
250
200
150
100
50
0
5/7/2024
19/7/2024
2/8/2024
16/8/2024
30/8/2024
13/9/2024
27/9/2024
11/10/2024
25/10/2024
Date

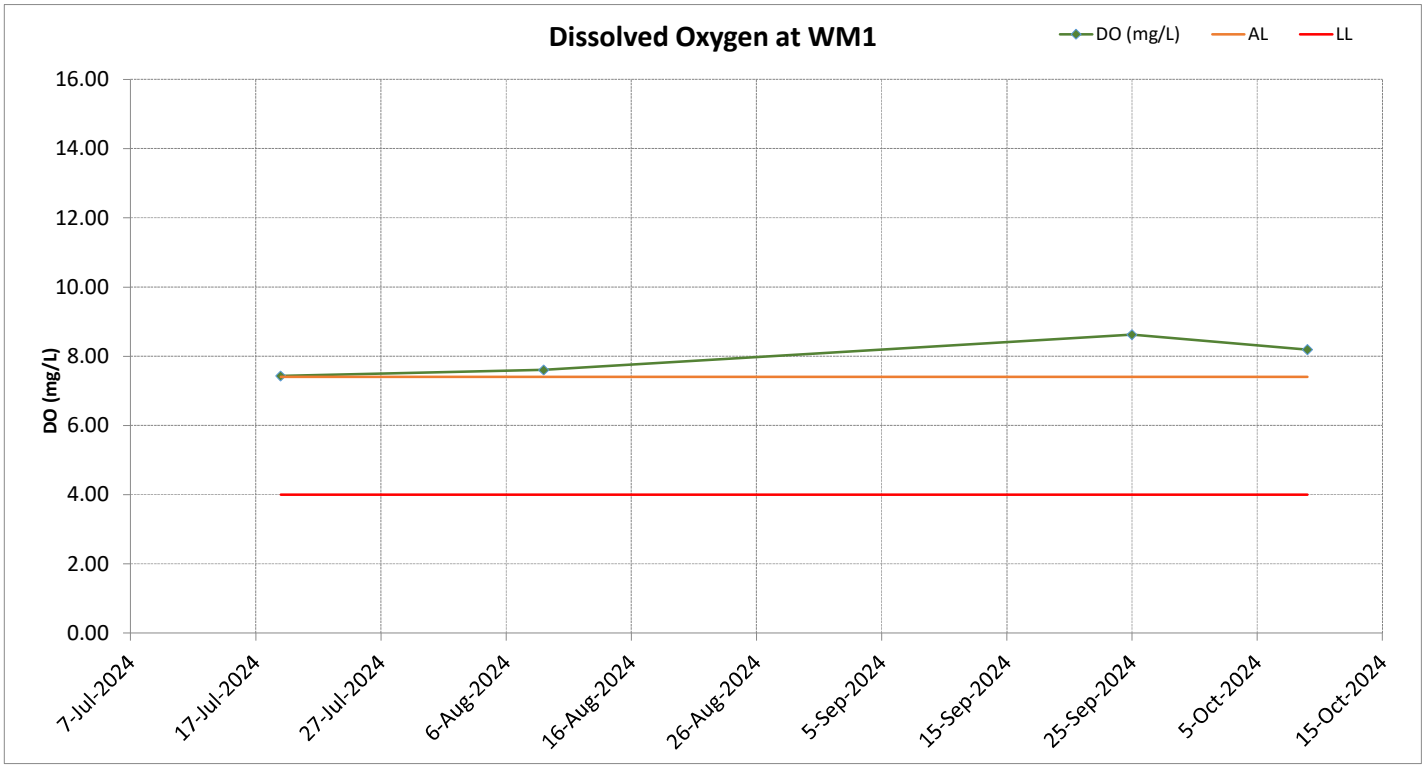
Noise

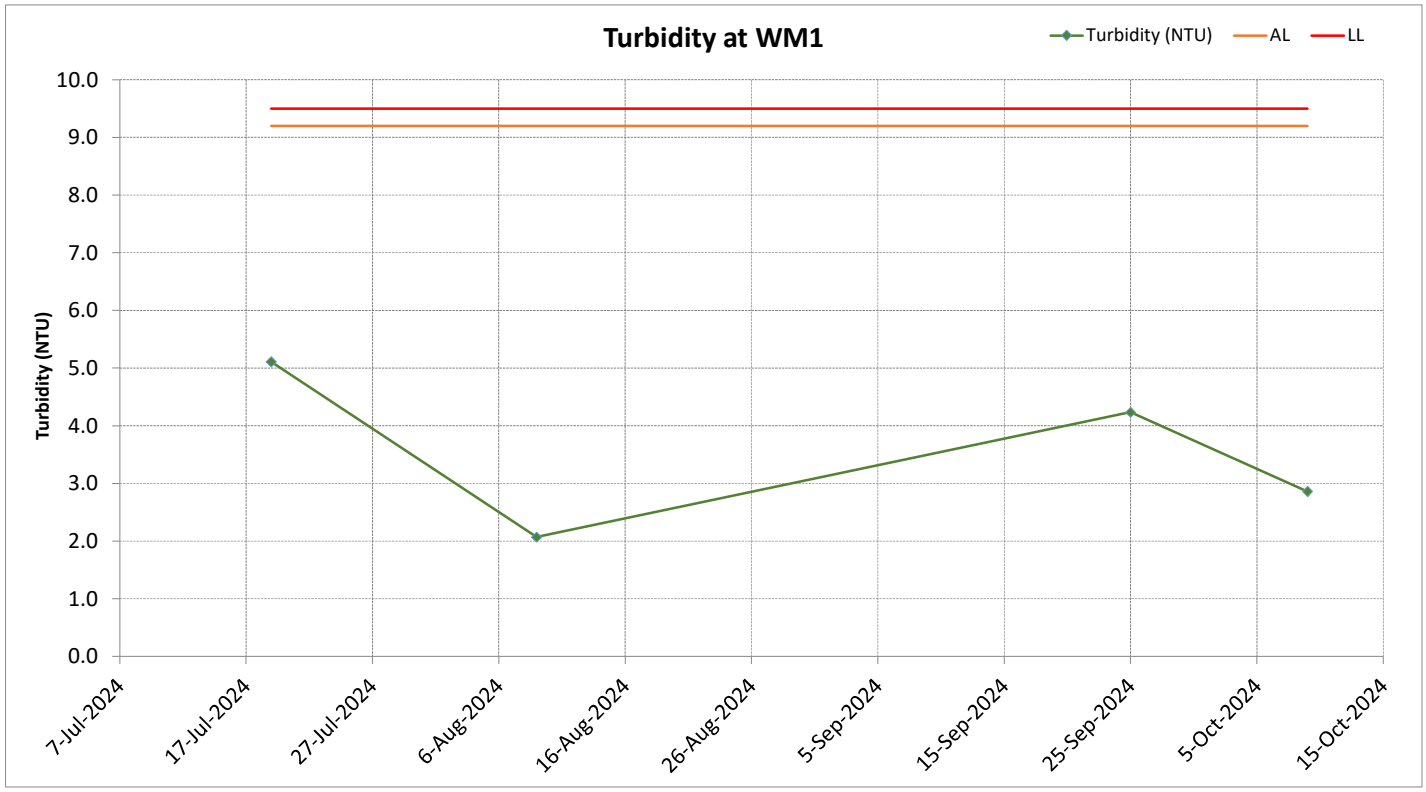

Measured LAeq(30min) at NM1a
Leq (dB(A))
Limit Level
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
LAeq, 30min dB(A)
6/7/2024
20/7/2024
3/8/2024
17/8/2024
31/8/2024
14/9/2024
28/9/2024
12/10/2024
26/10/2024
Date


Measured LAeq(30min) at NM2b
Leq (dB(A))
Limit Level
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
LAeq, 30min dB(A)
6/7/2024
20/7/2024
3/8/2024
17/8/2024
31/8/2024
14/9/2024
28/9/2024
12/10/2024
26/10/2024
Date

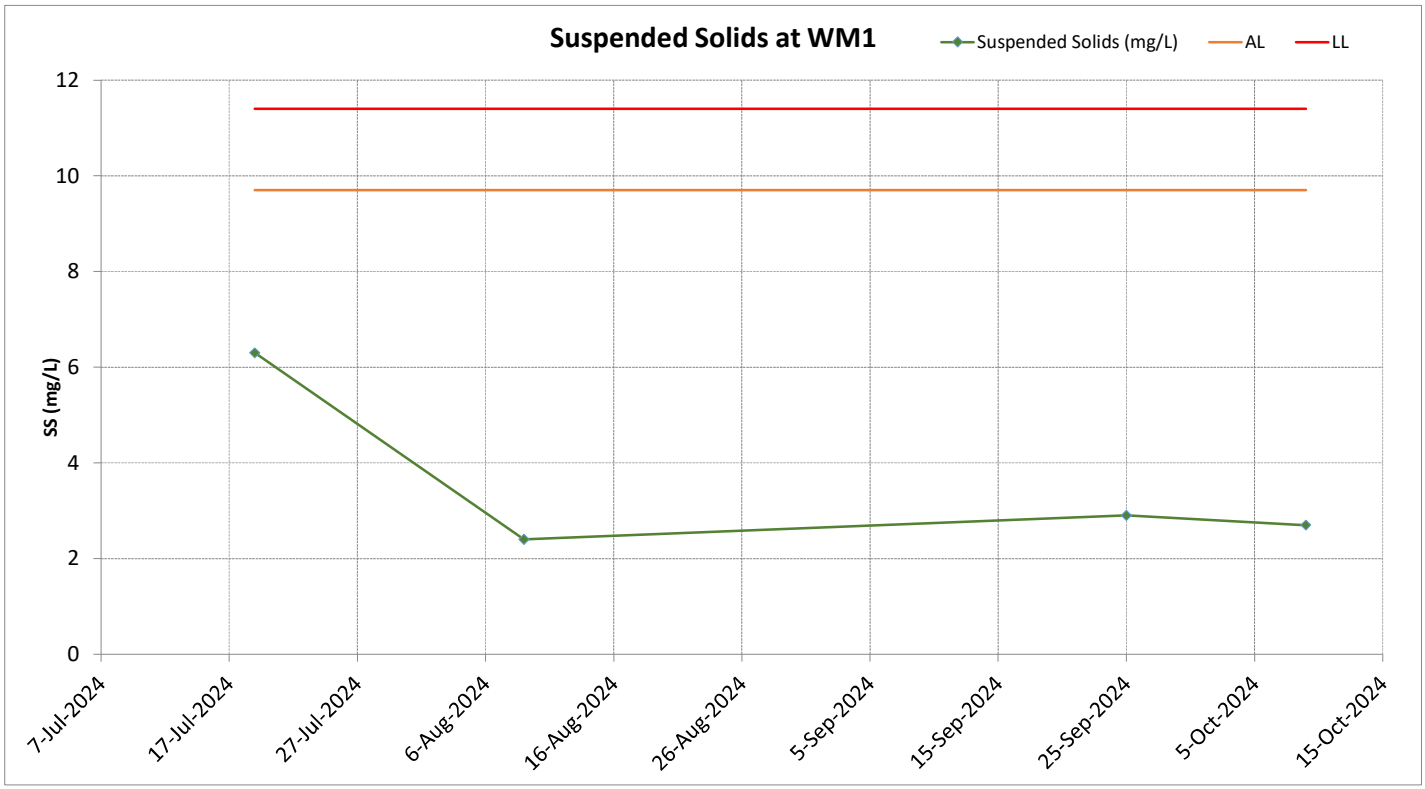
Water Quality

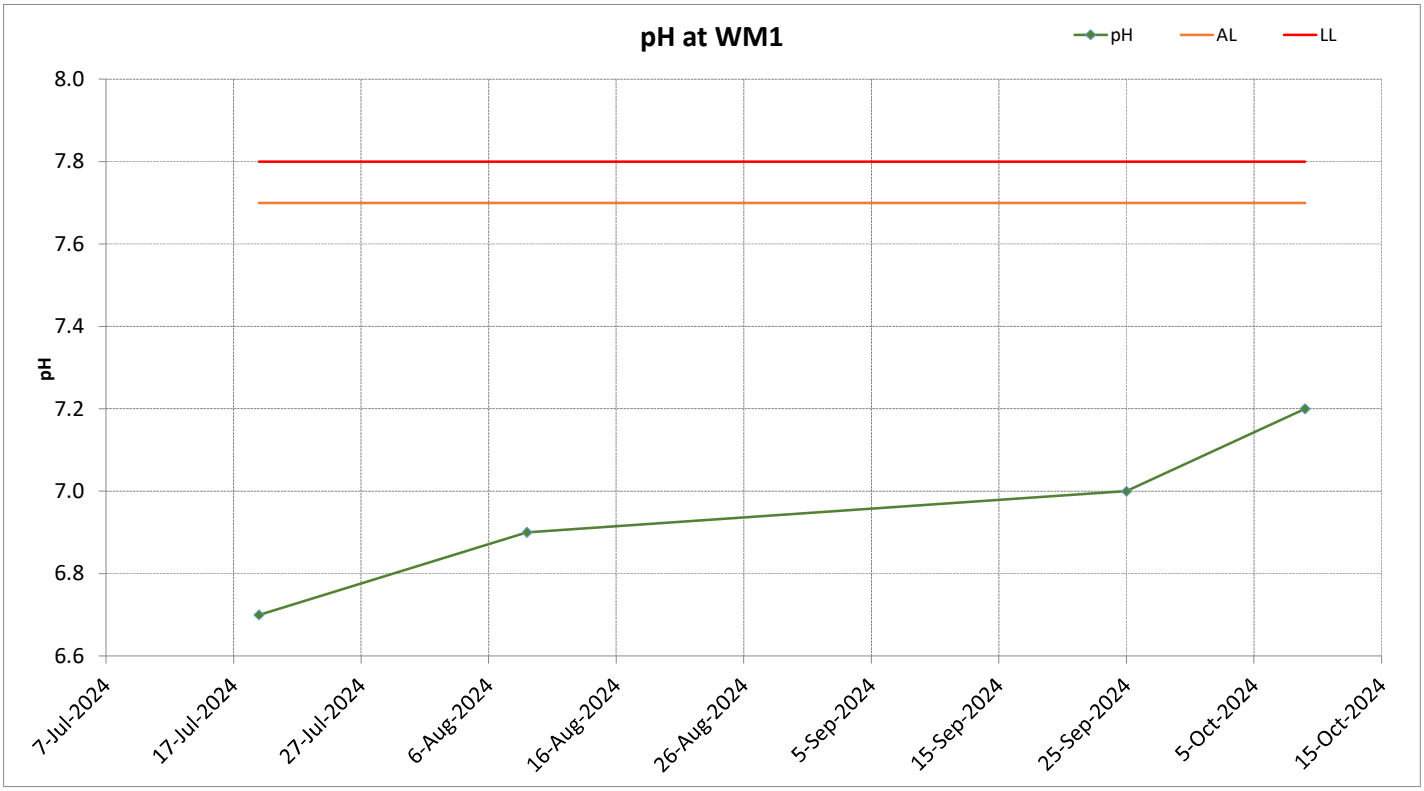
Surface Water Monitoring Results at WM1



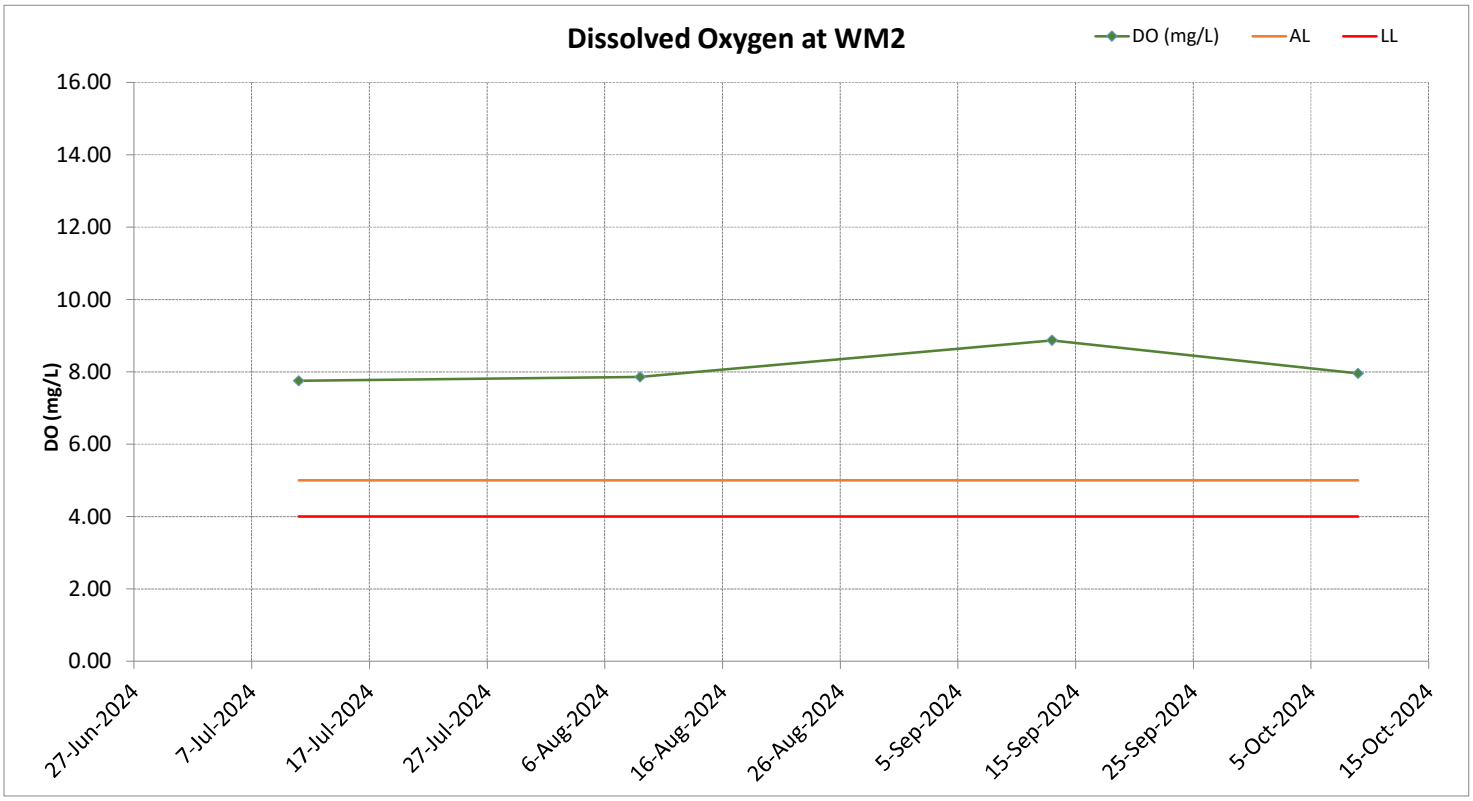


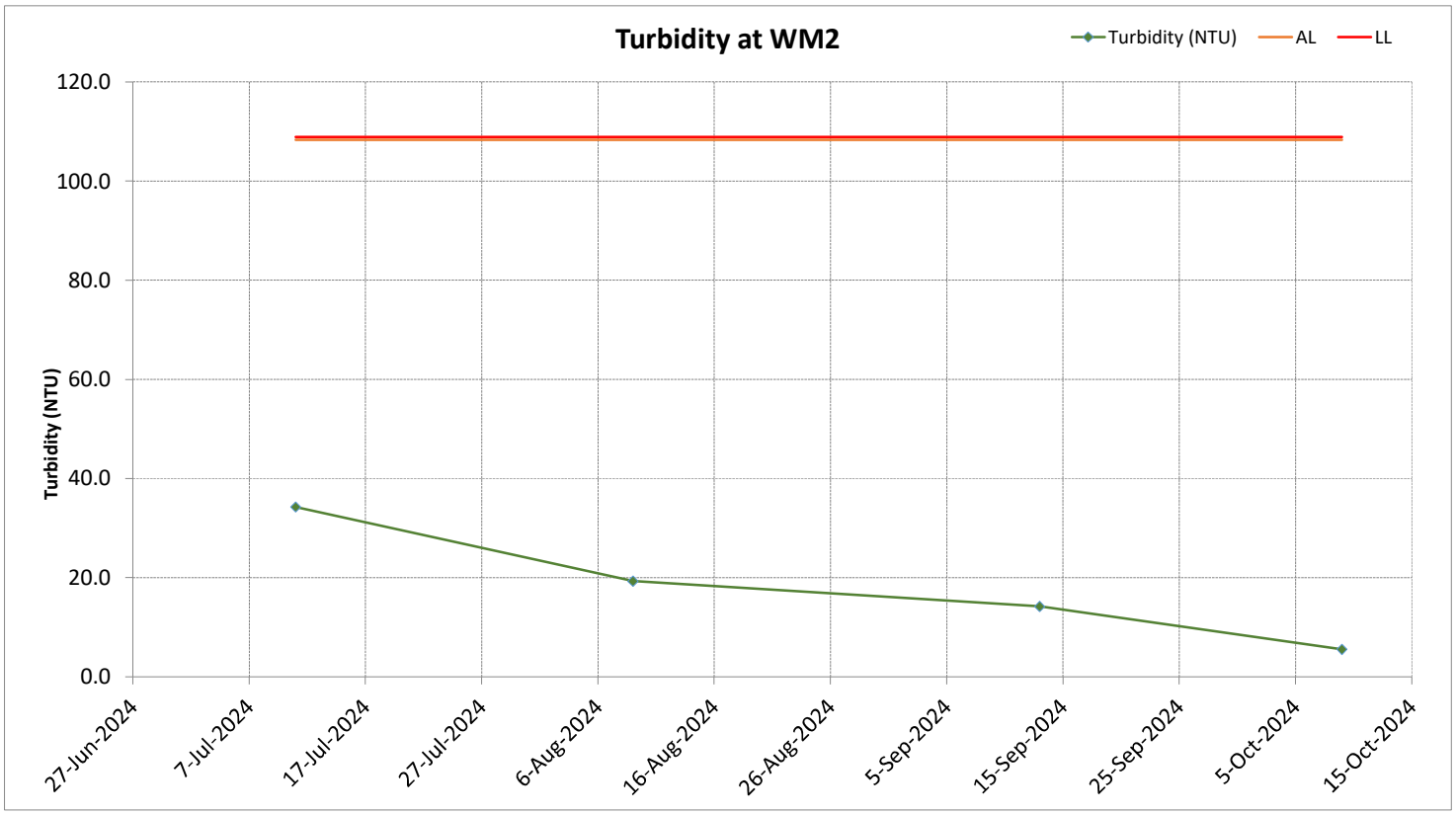
Surface Water Monitoring Results at WM1



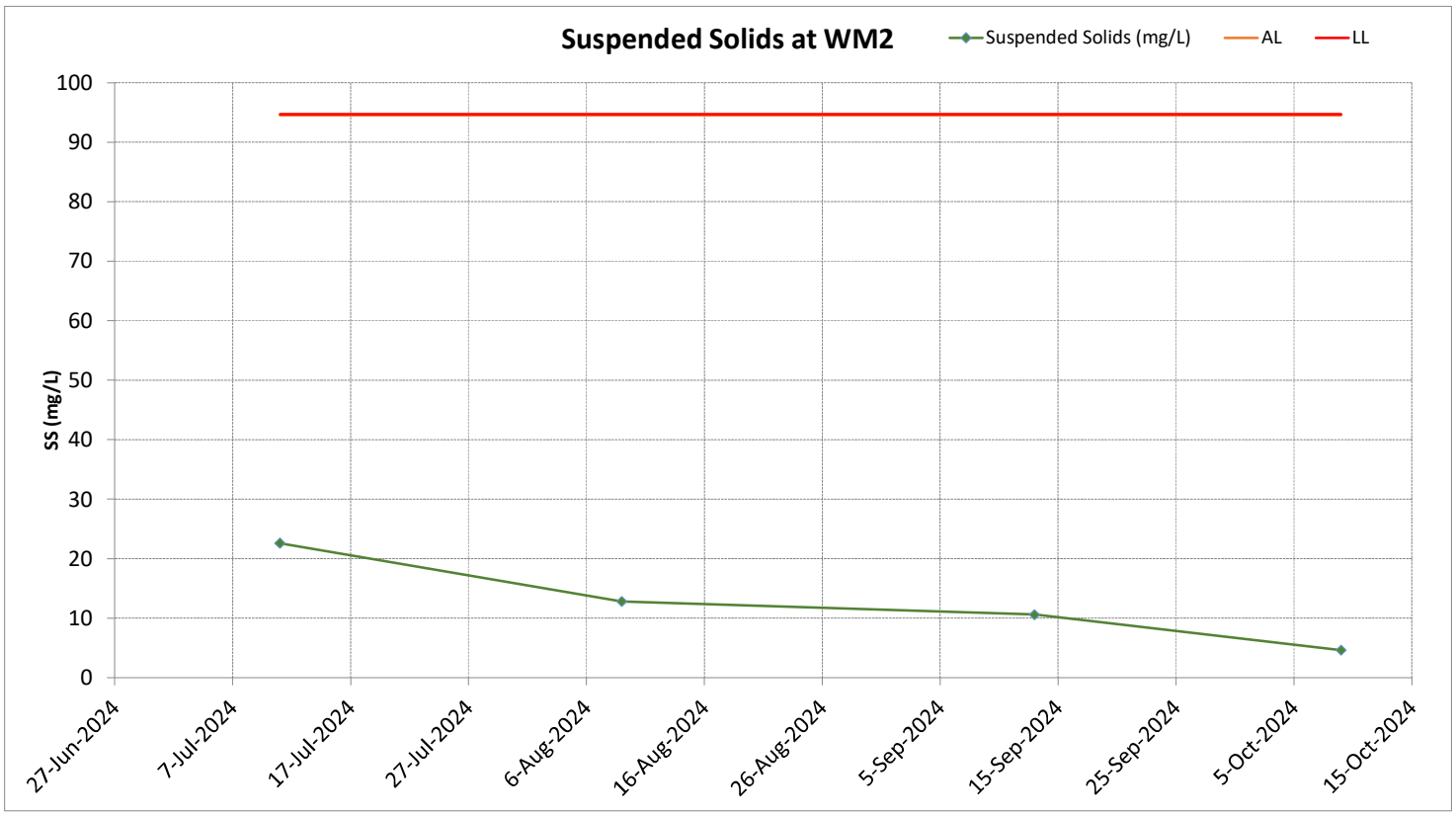


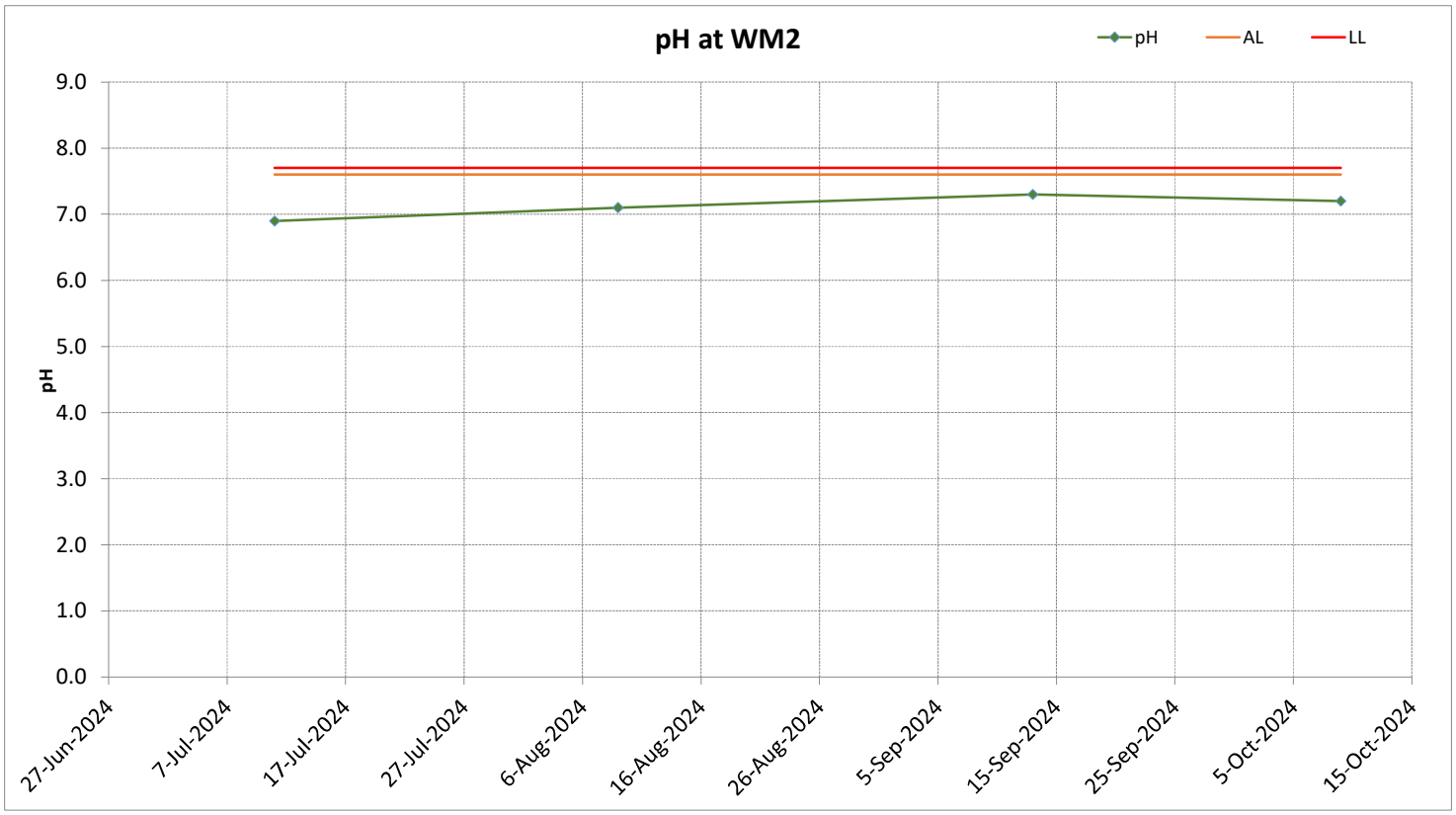
Surface Water Monitoring Results at WM2





Surface Water Monitoring Results at WM2





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 replated
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

Notification of Environmental Quality Limits Exceedance

Surface Water Monitoring

Surface Water Quality Monitoring Station	Level Exceedance	Exceedance Count															
		Reporting period								Accumulate project to date							
		Project related				Non-project replated				Project related				Non-project replated			
		DO	pH	Turb	SS	DO	pH	Turb	SS	DO	pH	Turb	SS	DO	pH	Turb	SS
WM1	Action	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WM2	Action	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

Remarks:

1. “DO” equal to Dissolved Oxygen
2. “Turb” equal to Turbidity
3. “SS” equal to Suspended Solids

Landfill Gas (LFG) Monitoring

LFG Monitoring Station	Level Exceedance	Exceedance Count											
		Reporting period						Accumulate project to date					
		Project related			Non-project replated			Project related			Non-project replated		
		CH_4	CO_2	O_2	CH_4	CO_2	O_2	CH_4	CO_2	O_2	CH_4	CO_2	O_2
Portion A +50 mpD to +70 mpD Platform	Action	0	0	0	0	0	0	0	0	0	0	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	0	0
Portion B2/E1	Action	0	0	0	0	0	0	0	0	0	0	0	0
	Limit	0	0	0	0	0	0	0	0	0	0	0	0

Appendix I Wind Data

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241001_0003	0.2	143
20241001_0013	0.1	280
20241001_0023	0.1	151
20241001_0033	0.1	42
20241001_0043	0.1	62
20241001_0053	0.1	91
20241001_0103	0.1	49
20241001_0113	0.1	46
20241001_0123	0.1	33
20241001_0133	0.1	28
20241001_0143	0.1	31
20241001_0153	0.1	39
20241001_0203	0.1	48
20241001_0213	0.1	61
20241001_0223	0.1	325
20241001_0233	0.1	114
20241001_0243	0.1	51
20241001_0253	0.1	39
20241001_0303	0.1	69
20241001_0313	0.1	50
20241001_0323	0.1	57
20241001_0333	0.1	53
20241001_0343	0.1	57
20241001_0353	0.1	49
20241001_0403	0.1	58
20241001_0413	0.1	49
20241001_0423	0.1	50
20241001_0433	0.1	37
20241001_0443	0.1	63
20241001_0453	0.1	54
20241001_0503	0.1	62
20241001_0513	0.1	61
20241001_0523	0.1	83
20241001_0533	0.1	46
20241001_0543	0.2	21
20241001_0553	0.2	351
20241001_0603	0.1	83
20241001_0613	0.1	259
20241001_0623	0.1	52
20241001_0633	0.1	114
20241001_0643	0.1	145
20241001_0653	0.1	60
20241001_0703	0.1	67
20241001_0713	0.1	31
20241001_0723	0.1	140
20241001_0733	0.1	113
20241001_0743	0.1	114
20241001_0753	0.1	137
20241001_0803	0.1	120
20241001_0813	0.1	126
20241001_0823	0.1	119
20241001_0833	0.2	74
20241001_0843	0.1	138
20241001_0853	1.2	176
20241001_0903	0.2	171
20241001_0913	2.3	65
20241001_0923	0.6	129
20241001_0933	0.3	8
20241001_0943	0.1	99
20241001_0953	2.8	29
20241001_1003	0.1	10
20241001_1013	2.6	134
20241001_1023	0.8	29
20241001_1033	0.8	64
20241001_1043	0.1	204
20241001_1053	3.4	315
20241001_1103	4.2	80
20241001_1113	0.8	68
20241001_1123	0.2	209
20241001_1133	2.2	49
20241001_1143	3.5	288
20241001_1153	4.7	65

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241001_1203	1.7	58
20241001_1213	2	306
20241001_1223	3.6	335
20241001_1233	2.3	42
20241001_1243	0.1	216
20241001_1253	3.7	350
20241001_1303	3.9	331
20241001_1313	0.1	65
20241001_1323	2.3	40
20241001_1333	2.3	20
20241001_1343	0.1	314
20241001_1353	2.8	50
20241001_1403	1.4	4
20241001_1413	2.1	46
20241001_1423	3.1	94
20241001_1433	1.7	16
20241001_1443	4.3	43
20241001_1453	1.2	66
20241001_1503	1	343
20241001_1513	0.8	21
20241001_1523	0.1	52
20241001_1533	0.5	9
20241001_1543	0.2	52
20241001_1553	1.2	69
20241001_1603	1.7	301
20241001_1613	0.3	88
20241001_1623	0.2	101
20241001_1633	0.9	60
20241001_1643	0.4	95
20241001_1653	1.7	9
20241001_1703	1.8	111
20241001_1713	0.5	336
20241001_1723	2.5	95
20241001_1733	3.6	59
20241001_1743	0.1	61
20241001_1753	0.3	24
20241001_1803	1.6	1
20241001_1813	2.6	98
20241001_1823	0.2	350
20241001_1833	1.1	177
20241001_1843	1.8	351
20241001_1853	0.2	262
20241001_1903	0.1	138
20241001_1913	4.2	136
20241001_1923	3.9	60
20241001_1933	0.1	333
20241001_1943	1.1	10
20241001_1953	0.8	145
20241001_2003	0.2	46
20241001_2013	0.5	67
20241001_2023	3.9	102
20241001_2033	0.3	51
20241001_2043	1.6	11
20241001_2053	3.2	73
20241001_2103	0.1	96
20241001_2113	0.5	124
20241001_2123	0.4	143
20241001_2133	0.5	65
20241001_2143	0.1	133
20241001_2153	2.5	67
20241001_2203	0.1	100
20241001_2213	0.1	64
20241001_2223	0.1	115
20241001_2233	0.1	120
20241001_2243	0.3	204
20241001_2253	0.5	240
20241001_2303	0.1	214
20241001_2313	0.6	135
20241001_2323	0.1	127
20241001_2333	0.3	351
20241001_2343	0.1	154
20241001_2353	0.2	133

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241002_0003	0.1	193
20241002_0013	0.1	301
20241002_0023	0.1	153
20241002_0033	0.1	109
20241002_0043	0.2	141
20241002_0053	0.1	150
20241002_0103	0.1	291
20241002_0113	0.2	146
20241002_0123	1	138
20241002_0133	0.2	135
20241002_0143	0.2	121
20241002_0153	0.4	169
20241002_0203	0.2	155
20241002_0213	0.1	311
20241002_0223	1.3	150
20241002_0233	1.9	140
20241002_0243	0.1	223
20241002_0253	0.6	136
20241002_0303	0.4	246
20241002_0313	0.1	317
20241002_0323	0.1	330
20241002_0333	0.1	111
20241002_0343	0.1	169
20241002_0353	0.1	145
20241002_0403	0.1	179
20241002_0413	0.1	348
20241002_0423	0.1	244
20241002_0433	0.2	103
20241002_0443	0.3	350
20241002_0453	0.2	107
20241002_0503	0.1	344
20241002_0513	0.1	347
20241002_0523	0.1	156
20241002_0533	0.5	108
20241002_0543	0.1	140
20241002_0553	0.1	120
20241002_0603	0.1	98
20241002_0613	0.9	165
20241002_0623	0.6	298
20241002_0633	0.8	113
20241002_0643	0.2	51
20241002_0653	0.1	38
20241002_0703	0.1	344
20241002_0713	0.3	150
20241002_0723	0.1	346
20241002_0733	0.2	154
20241002_0743	0.1	118
20241002_0753	1	160
20241002_0803	0.5	138
20241002_0813	0.6	153
20241002_0823	0.1	79
20241002_0833	0.2	139
20241002_0843	3	131
20241002_0853	2.8	115
20241002_0903	0.1	157
20241002_0913	1.2	145
20241002_0923	1.1	37
20241002_0933	0.1	344
20241002_0943	2.1	136
20241002_0953	0.8	151
20241002_1003	2	132
20241002_1013	1.9	85
20241002_1023	1.1	33
20241002_1033	0.5	101
20241002_1043	0.3	347
20241002_1053	0.2	163
20241002_1103	1.9	24
20241002_1113	1.6	36
20241002_1123	0.3	27
20241002_1133	6	58
20241002_1143	2.1	140
20241002_1153	1.2	135

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241002_1203	0.6	70
20241002_1213	6.4	172
20241002_1223	0.1	67
20241002_1233	2.3	56
20241002_1243	0.3	122
20241002_1253	3.9	111
20241002_1303	0.1	256
20241002_1313	0.1	318
20241002_1323	2.4	90
20241002_1333	2.3	79
20241002_1343	1.8	132
20241002_1353	0.2	108
20241002_1403	2.6	64
20241002_1413	1.1	132
20241002_1423	0.1	312
20241002_1433	4.3	50
20241002_1443	0.4	334
20241002_1453	0.2	262
20241002_1503	4.5	69
20241002_1513	1	70
20241002_1523	1.2	111
20241002_1533	7	154
20241002_1543	1.9	146
20241002_1553	1	309
20241002_1603	0.1	57
20241002_1613	0.7	11
20241002_1623	0.5	38
20241002_1633	0.1	49
20241002_1643	0.4	133
20241002_1653	0.4	105
20241002_1703	0.1	56
20241002_1713	0.2	70
20241002_1723	0.1	95
20241002_1733	0.1	24
20241002_1743	0.2	72
20241002_1753	0.1	46
20241002_1803	0.1	171
20241002_1813	0.3	32
20241002_1823	0.8	346
20241002_1833	0.2	57
20241002_1843	0.1	76
20241002_1853	0.1	266
20241002_1903	1.6	121
20241002_1913	0.1	156
20241002_1923	0.1	312
20241002_1933	0.2	60
20241002_1943	0.1	165
20241002_1953	0.1	166
20241002_2003	0.1	233
20241002_2013	0.1	306
20241002_2023	0.7	88
20241002_2033	3.1	119
20241002_2043	0.4	277
20241002_2053	0.1	320
20241002_2103	0.1	280
20241002_2113	4.9	313
20241002_2123	0.1	321
20241002_2133	0.1	264
20241002_2143	0.4	13
20241002_2153	0.1	13
20241002_2203	1.4	53
20241002_2213	0.1	101
20241002_2223	0.1	48
20241002_2233	1.1	322
20241002_2243	0.8	121
20241002_2253	0.1	332
20241002_2303	0.1	282
20241002_2313	0.1	26
20241002_2323	1.6	131
20241002_2333	0.4	304
20241002_2343	0.1	347
20241002_2353	0.3	110

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241003_0003	6.8	103
20241003_0013	1.2	342
20241003_0023	1.1	165
20241003_0033	3.4	26
20241003_0043	3.6	60
20241003_0053	0.4	295
20241003_0103	1.1	70
20241003_0113	0.2	56
20241003_0123	0.7	326
20241003_0133	3.6	59
20241003_0143	1.6	329
20241003_0153	3.9	336
20241003_0203	0.8	190
20241003_0213	0.1	119
20241003_0223	3.3	331
20241003_0233	3.9	4
20241003_0243	3.9	143
20241003_0253	0.5	32
20241003_0303	1.2	5
20241003_0313	3.8	68
20241003_0323	1.8	328
20241003_0333	2.8	18
20241003_0343	0.2	232
20241003_0353	1.2	282
20241003_0403	2.4	354
20241003_0413	2.8	289
20241003_0423	12	272
20241003_0433	1.2	86
20241003_0443	6.7	349
20241003_0453	1.6	12
20241003_0503	3.8	75
20241003_0513	3.1	70
20241003_0523	0.2	119
20241003_0533	0.5	77
20241003_0543	2	105
20241003_0553	3.2	330
20241003_0603	0.1	215
20241003_0613	0.2	265
20241003_0623	0.1	170
20241003_0633	1.9	178
20241003_0643	5.8	142
20241003_0653	0.6	298
20241003_0703	1.2	288
20241003_0713	1.4	258
20241003_0723	0.9	13
20241003_0733	3.2	120
20241003_0743	0.1	45
20241003_0753	2.6	123
20241003_0803	1.1	102
20241003_0813	0.3	175
20241003_0823	0.8	16
20241003_0833	0.2	217
20241003_0843	0.7	39
20241003_0853	0.1	91
20241003_0903	0.6	169
20241003_0913	0.6	95
20241003_0923	0.4	123
20241003_0933	3.4	87
20241003_0943	0.3	175
20241003_0953	0.5	312
20241003_1003	1	21
20241003_1013	6.2	325
20241003_1023	0.6	100
20241003_1033	0.6	65
20241003_1043	1.5	38
20241003_1053	1.2	69
20241003_1103	0.4	216
20241003_1113	0.4	90
20241003_1123	2.5	37
20241003_1133	0.3	169
20241003_1143	1.1	279
20241003_1153	1.4	112

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241003_1203	1.6	57
20241003_1213	0.2	283
20241003_1223	1.7	70
20241003_1233	0.2	331
20241003_1243	0.8	334
20241003_1253	2.5	9
20241003_1303	0.1	120
20241003_1313	3.5	59
20241003_1323	2.5	346
20241003_1333	0.1	53
20241003_1343	0.2	187
20241003_1353	2.4	90
20241003_1403	3.3	334
20241003_1413	0.3	20
20241003_1423	1	60
20241003_1433	0.5	299
20241003_1443	1.3	305
20241003_1453	1.6	346
20241003_1503	0.1	89
20241003_1513	0.1	60
20241003_1523	0.2	90
20241003_1533	0.1	275
20241003_1543	0.2	349
20241003_1553	0.8	176
20241003_1603	1.2	348
20241003_1613	0.1	343
20241003_1623	0.1	284
20241003_1633	0.3	322
20241003_1643	0.1	64
20241003_1653	0.1	40
20241003_1703	0.1	352
20241003_1713	0.1	338
20241003_1723	0.1	51
20241003_1733	0.1	66
20241003_1743	0.1	17
20241003_1753	0.1	92
20241003_1803	0.1	346
20241003_1813	0.1	32
20241003_1823	0.1	73
20241003_1833	0.1	57
20241003_1843	0.1	105
20241003_1853	0.1	75
20241003_1903	0.1	108
20241003_1913	0.1	125
20241003_1923	0.1	60
20241003_1933	0.1	282
20241003_1943	0.1	322
20241003_1953	0.1	6
20241003_2003	0.4	33
20241003_2013	0.1	136
20241003_2023	0.1	44
20241003_2033	0.4	117
20241003_2043	1.2	23
20241003_2053	0.1	210
20241003_2103	1.3	38
20241003_2113	0.1	340
20241003_2123	0.3	311
20241003_2133	0.5	13
20241003_2143	0.6	286
20241003_2153	0.1	27
20241003_2203	0.1	283
20241003_2213	0.1	61
20241003_2223	0.1	32
20241003_2233	0.1	125
20241003_2243	1.2	33
20241003_2253	0.2	328
20241003_2303	0.1	269
20241003_2313	0.1	138
20241003_2323	0.1	179
20241003_2333	0.1	87
20241003_2343	0.1	143
20241003_2353	0.1	90

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241004_0003	0.1	90
20241004_0013	0.1	142
20241004_0023	0.1	141
20241004_0033	0.1	83
20241004_0043	0.1	73
20241004_0053	0.1	124
20241004_0103	0.1	124
20241004_0113	0.1	147
20241004_0123	0.1	149
20241004_0133	0.1	124
20241004_0143	0.1	52
20241004_0153	0.1	330
20241004_0203	0.1	341
20241004_0213	0.1	330
20241004_0223	0.1	72
20241004_0233	0.1	88
20241004_0243	0.1	87
20241004_0253	0.1	8
20241004_0303	0.1	98
20241004_0313	0.1	68
20241004_0323	0.2	64
20241004_0333	0.1	44
20241004_0343	0.2	302
20241004_0353	0.9	298
20241004_0403	0.1	67
20241004_0413	0.1	283
20241004_0423	0.5	314
20241004_0433	0.1	351
20241004_0443	0.5	281
20241004_0453	0.9	63
20241004_0503	0.2	344
20241004_0513	0.1	262
20241004_0523	0.1	340
20241004_0533	0.1	329
20241004_0543	0.5	24
20241004_0553	0.1	294
20241004_0603	0.1	163
20241004_0613	0.1	21
20241004_0623	0.1	151
20241004_0633	0.1	132
20241004_0643	0.1	306
20241004_0653	0.1	98
20241004_0703	0.1	118
20241004_0713	0.1	145
20241004_0723	0.1	141
20241004_0733	0.1	332
20241004_0743	0.1	340
20241004_0753	0.8	340
20241004_0803	0.9	274
20241004_0813	0.1	147
20241004_0823	0.1	3
20241004_0833	0.1	8
20241004_0843	0.2	348
20241004_0853	0.1	32
20241004_0903	1	297
20241004_0913	2.1	295
20241004_0923	0.2	344
20241004_0933	0.1	287
20241004_0943	0.1	93
20241004_0953	0.4	304
20241004_1003	0.1	329
20241004_1013	1.1	63
20241004_1023	0.5	312
20241004_1033	1.5	317
20241004_1043	0.8	148
20241004_1053	1.3	36
20241004_1103	0.1	310
20241004_1113	0.1	87
20241004_1123	0.1	78
20241004_1133	1.7	248
20241004_1143	2.6	145
20241004_1153	0.2	314

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241004_1203	0.4	236
20241004_1213	0.3	137
20241004_1223	0.1	198
20241004_1233	0.6	30
20241004_1243	0.2	37
20241004_1253	0.4	128
20241004_1303	1.2	55
20241004_1313	5.2	57
20241004_1323	1	291
20241004_1333	0.1	7
20241004_1343	0.2	346
20241004_1353	0.7	121
20241004_1403	0.1	75
20241004_1413	1.8	48
20241004_1423	0.2	2
20241004_1433	0.5	142
20241004_1443	2.3	50
20241004_1453	1	45
20241004_1503	0.3	27
20241004_1513	0.2	167
20241004_1523	1.5	252
20241004_1533	0.1	73
20241004_1543	2.2	110
20241004_1553	0.5	345
20241004_1603	0.1	128
20241004_1613	0.1	14
20241004_1623	0.1	347
20241004_1633	0.1	27
20241004_1643	0.1	13
20241004_1653	0.1	346
20241004_1703	0.3	169
20241004_1713	0.1	131
20241004_1723	0.2	58
20241004_1733	0.5	308
20241004_1743	0.1	99
20241004_1753	0.1	84
20241004_1803	0.1	342
20241004_1813	0.2	152
20241004_1823	0.4	264
20241004_1833	0.1	353
20241004_1843	0.1	94
20241004_1853	0.2	316
20241004_1903	0.1	88
20241004_1913	0.1	155
20241004_1923	0.1	101
20241004_1933	0.1	59
20241004_1943	0.3	273
20241004_1953	0.3	36
20241004_2003	1.8	308
20241004_2013	0.1	294
20241004_2023	0.1	48
20241004_2033	3.2	335
20241004_2043	1.3	306
20241004_2053	0.1	281
20241004_2103	1.4	150
20241004_2113	0.1	105
20241004_2123	0.2	41
20241004_2133	0.1	144
20241004_2143	0.1	74
20241004_2153	0.1	67
20241004_2203	0.1	121
20241004_2213	0.1	48
20241004_2223	0.1	56
20241004_2233	0.1	58
20241004_2243	0.1	58
20241004_2253	0.1	59
20241004_2303	0.1	66
20241004_2313	0.1	136
20241004_2323	0.1	83
20241004_2333	0.1	132
20241004_2343	0.1	101
20241004_2353	0.1	47

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241005_0003	0.1	77
20241005_0013	0.1	71
20241005_0023	0.1	126
20241005_0033	0.1	122
20241005_0043	0.1	76
20241005_0053	0.1	337
20241005_0103	0.1	305
20241005_0113	0.1	332
20241005_0123	0.1	12
20241005_0133	0.1	345
20241005_0143	0.4	101
20241005_0153	0.1	54
20241005_0203	0.1	14
20241005_0213	0.1	343
20241005_0223	0.1	134
20241005_0233	0.1	131
20241005_0243	0.1	121
20241005_0253	0.1	274
20241005_0303	0.1	103
20241005_0313	0.1	235
20241005_0323	0.1	219
20241005_0333	0.1	164
20241005_0343	0.1	255
20241005_0353	0.1	349
20241005_0403	0.1	347
20241005_0413	0.1	119
20241005_0423	0.1	139
20241005_0433	0.1	139
20241005_0443	0.1	139
20241005_0453	0.1	77
20241005_0503	0.1	95
20241005_0513	0.1	328
20241005_0523	0.1	127
20241005_0533	0.1	141
20241005_0543	0.1	134
20241005_0553	0.1	284
20241005_0603	0.6	322
20241005_0613	0.2	289
20241005_0623	0.1	26
20241005_0633	0.1	126
20241005_0643	0.1	173
20241005_0653	0.1	120
20241005_0703	0.1	133
20241005_0713	0.1	249
20241005_0723	0.1	147
20241005_0733	0.1	112
20241005_0743	0.1	51
20241005_0753	0.1	294
20241005_0803	0.8	299
20241005_0813	1.6	305
20241005_0823	0.3	10
20241005_0833	2.6	331
20241005_0843	0.3	328
20241005_0853	0.4	39
20241005_0903	0.2	8
20241005_0913	0.1	235
20241005_0923	0.1	14
20241005_0933	0.1	183
20241005_0943	0.4	335
20241005_0953	0.5	270
20241005_1003	0.1	345
20241005_1013	0.1	97
20241005_1023	2.5	299
20241005_1033	1.3	65
20241005_1043	0.1	4
20241005_1053	0.1	184
20241005_1103	3.5	58
20241005_1113	0.1	193
20241005_1123	2.5	55
20241005_1133	0.1	339
20241005_1143	0.1	185
20241005_1153	0.1	213

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241005_1203	1.3	35
20241005_1213	3.4	297
20241005_1223	1.8	76
20241005_1233	1.3	21
20241005_1243	3.4	316
20241005_1253	2.7	61
20241005_1303	1	26
20241005_1313	0.7	343
20241005_1323	0.3	37
20241005_1333	0.2	45
20241005_1343	0.6	90
20241005_1353	0.5	91
20241005_1403	0.1	45
20241005_1413	0.1	134
20241005_1423	0.8	27
20241005_1433	0.3	150
20241005_1443	0.4	46
20241005_1453	0.2	32
20241005_1503	1.9	285
20241005_1513	0.1	299
20241005_1523	0.3	76
20241005_1533	3.3	305
20241005_1543	0.1	60
20241005_1553	0.3	122
20241005_1603	0.3	309
20241005_1613	0.2	76
20241005_1623	0.1	341
20241005_1633	1.8	320
20241005_1643	0.1	26
20241005_1653	0.9	46
20241005_1703	0.1	346
20241005_1713	0.2	329
20241005_1723	0.1	15
20241005_1733	0.1	76
20241005_1743	0.1	133
20241005_1753	0.1	132
20241005_1803	0.1	124
20241005_1813	0.1	100
20241005_1823	0.1	100
20241005_1833	0.1	100
20241005_1843	0.1	99
20241005_1853	0.1	58
20241005_1903	0.1	58
20241005_1913	0.1	39
20241005_1923	0.1	15
20241005_1933	0.1	53
20241005_1943	0.1	115
20241005_1953	0.1	176
20241005_2003	0.1	111
20241005_2013	0.1	90
20241005_2023	0.1	168
20241005_2033	0.1	203
20241005_2043	0.1	116
20241005_2053	0.1	134
20241005_2103	0.1	54
20241005_2113	0.1	60
20241005_2123	0.1	105
20241005_2133	0.1	167
20241005_2143	0.1	257
20241005_2153	0.1	85
20241005_2203	0.1	85
20241005_2213	0.1	93
20241005_2223	0.1	93
20241005_2233	0.1	93
20241005_2243	0.1	125
20241005_2253	0.1	322
20241005_2303	0.1	28
20241005_2313	0.1	28
20241005_2323	0.1	28
20241005_2333	0.1	35
20241005_2343	0.1	52
20241005_2353	0.1	52

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241006_0003	0.1	52
20241006_0013	0.1	51
20241006_0023	0.1	52
20241006_0033	0.1	52
20241006_0043	0.1	93
20241006_0053	0.1	93
20241006_0103	0.1	93
20241006_0113	0.1	92
20241006_0123	0.1	79
20241006_0133	0.1	79
20241006_0143	0.1	79
20241006_0153	0.1	54
20241006_0203	0.1	54
20241006_0213	0.1	350
20241006_0223	0.1	93
20241006_0233	0.1	151
20241006_0243	0.1	67
20241006_0253	0.1	10
20241006_0303	0.1	52
20241006_0313	0.1	53
20241006_0323	0.1	53
20241006_0333	0.1	53
20241006_0343	0.1	53
20241006_0353	0.1	48
20241006_0403	0.1	47
20241006_0413	0.1	55
20241006_0423	0.1	55
20241006_0433	0.1	55
20241006_0443	0.1	55
20241006_0453	0.1	55
20241006_0503	0.1	55
20241006_0513	0.1	55
20241006_0523	0.1	54
20241006_0533	0.1	54
20241006_0543	0.1	54
20241006_0553	0.1	54
20241006_0603	0.1	66
20241006_0613	0.1	143
20241006_0623	0.1	116
20241006_0633	0.1	144
20241006_0643	0.1	74
20241006_0653	0.1	120
20241006_0703	0.1	148
20241006_0713	0.1	119
20241006_0723	0.1	109
20241006_0733	0.1	128
20241006_0743	0.2	133
20241006_0753	0.1	97
20241006_0803	0.2	146
20241006_0813	0.1	143
20241006_0823	0.1	140
20241006_0833	0.1	122
20241006_0843	0.4	100
20241006_0853	0.1	95
20241006_0903	0.5	148
20241006_0913	1.6	156
20241006_0923	0.8	232
20241006_0933	0.3	322
20241006_0943	0.4	259
20241006_0953	0.1	224
20241006_1003	0.2	182
20241006_1013	0.1	236
20241006_1023	0.2	183
20241006_1033	0.1	350
20241006_1043	0.9	119
20241006_1053	0.4	134
20241006_1103	1.6	111
20241006_1113	0.5	23
20241006_1123	0.2	99
20241006_1133	0.1	99
20241006_1143	0.7	49
20241006_1153	0.1	45

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241006_1203	0.2	316
20241006_1213	1.6	127
20241006_1223	0.4	303
20241006_1233	0.1	60
20241006_1243	0.4	165
20241006_1253	1.2	29
20241006_1303	0.4	304
20241006_1313	0.1	149
20241006_1323	0.2	76
20241006_1333	0.1	150
20241006_1343	0.4	320
20241006_1353	0.3	22
20241006_1403	0.7	353
20241006_1413	1.4	323
20241006_1423	0.1	54
20241006_1433	0.1	36
20241006_1443	0.1	297
20241006_1453	0.1	343
20241006_1503	0.1	112
20241006_1513	0.1	13
20241006_1523	0.1	334
20241006_1533	1.2	153
20241006_1543	0.9	101
20241006_1553	0.1	86
20241006_1603	1.2	320
20241006_1613	0.1	93
20241006_1623	0.1	106
20241006_1633	0.1	285
20241006_1643	0.2	119
20241006_1653	0.1	120
20241006_1703	0.1	110
20241006_1713	0.1	135
20241006_1723	0.1	75
20241006_1733	0.1	83
20241006_1743	0.1	60
20241006_1753	0.2	106
20241006_1803	0.2	109
20241006_1813	0.1	101
20241006_1823	0.1	37
20241006_1833	0.1	111
20241006_1843	0.1	133
20241006_1853	0.1	95
20241006_1903	0.1	54
20241006_1913	0.1	60
20241006_1923	0.1	350
20241006_1933	0.1	47
20241006_1943	0.1	122
20241006_1953	0.1	93
20241006_2003	0.1	348
20241006_2013	0.1	109
20241006_2023	0.1	105
20241006_2033	0.1	48
20241006_2043	0.1	87
20241006_2053	0.1	116
20241006_2103	0.1	75
20241006_2113	0.1	79
20241006_2123	0.1	147
20241006_2133	0.1	51
20241006_2143	0.1	54
20241006_2153	0.1	49
20241006_2203	0.1	93
20241006_2213	0.1	248
20241006_2223	0.1	100
20241006_2233	0.1	54
20241006_2243	0.1	53
20241006_2253	0.1	27
20241006_2303	0.1	81
20241006_2313	0.1	134
20241006_2323	0.1	141
20241006_2333	0.1	115
20241006_2343	0.1	68
20241006_2353	0.1	66

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241007_0003	0.1	63
20241007_0013	0.1	63
20241007_0023	0.1	72
20241007_0033	0.1	74
20241007_0043	0.1	91
20241007_0053	0.1	91
20241007_0103	0.1	61
20241007_0113	0.1	61
20241007_0123	0.1	100
20241007_0133	0.1	100
20241007_0143	0.1	100
20241007_0153	0.1	76
20241007_0203	0.1	92
20241007_0213	0.1	92
20241007_0223	0.1	92
20241007_0233	0.1	92
20241007_0243	0.1	68
20241007_0253	0.1	68
20241007_0303	0.1	78
20241007_0313	0.1	78
20241007_0323	0.1	63
20241007_0333	0.1	98
20241007_0343	0.1	75
20241007_0353	0.1	144
20241007_0403	0.1	65
20241007_0413	0.1	126
20241007_0423	0.1	100
20241007_0433	0.1	49
20241007_0443	0.1	52
20241007_0453	0.1	109
20241007_0503	0.1	104
20241007_0513	0.1	71
20241007_0523	0.1	71
20241007_0533	0.1	52
20241007_0543	0.1	143
20241007_0553	0.1	83
20241007_0603	0.1	61
20241007_0613	0.1	61
20241007_0623	0.1	310
20241007_0633	0.1	49
20241007_0643	0.1	58
20241007_0653	0.1	117
20241007_0703	0.1	115
20241007_0713	0.1	123
20241007_0723	0.1	146
20241007_0733	0.1	99
20241007_0743	0.1	122
20241007_0753	0.1	162
20241007_0803	0.1	228
20241007_0813	0.1	199
20241007_0823	0.1	200
20241007_0833	0.1	137
20241007_0843	0.2	143
20241007_0853	0.1	137
20241007_0903	0.3	152
20241007_0913	0.1	120
20241007_0923	0.1	155
20241007_0933	0.1	181
20241007_0943	0.1	124
20241007_0953	0.1	59
20241007_1003	0.2	101
20241007_1013	0.3	108
20241007_1023	0.1	191
20241007_1033	0.1	113
20241007_1043	0.1	164
20241007_1053	0.1	53
20241007_1103	0.1	56
20241007_1113	0.5	155
20241007_1123	0.9	163
20241007_1133	1	301
20241007_1143	0.1	17
20241007_1153	0.7	104

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241007_1203	0.1	197
20241007_1213	0.7	153
20241007_1223	0.3	55
20241007_1233	1	140
20241007_1243	0.1	73
20241007_1253	2.2	87
20241007_1303	0.2	112
20241007_1313	0.2	63
20241007_1323	0.1	216
20241007_1333	0.1	216
20241007_1343	0.1	1
20241007_1353	0.3	332
20241007_1403	1.4	117
20241007_1413	0.1	243
20241007_1423	2.9	338
20241007_1433	0.5	319
20241007_1443	0.1	298
20241007_1453	0.1	330
20241007_1503	1.1	62
20241007_1513	0.2	21
20241007_1523	4.3	302
20241007_1533	0.3	334
20241007_1543	2.2	329
20241007_1553	0.1	131
20241007_1603	0.2	56
20241007_1613	0.1	50
20241007_1623	1.4	29
20241007_1633	0.1	317
20241007_1643	0.1	25
20241007_1653	0.2	137
20241007_1703	0.1	332
20241007_1713	0.2	345
20241007_1723	0.1	27
20241007_1733	0.1	89
20241007_1743	0.1	67
20241007_1753	0.1	48
20241007_1803	0.1	50
20241007_1813	0.1	108
20241007_1823	0.1	53
20241007_1833	0.1	331
20241007_1843	0.1	314
20241007_1853	0.1	29
20241007_1903	0.1	7
20241007_1913	0.1	56
20241007_1923	0.1	319
20241007_1933	0.1	347
20241007_1943	0.1	100
20241007_1953	0.1	39
20241007_2003	0.1	351
20241007_2013	0.2	298
20241007_2023	0.1	8
20241007_2033	0.1	324
20241007_2043	0.1	117
20241007_2053	0.1	74
20241007_2103	0.1	95
20241007_2113	0.1	310
20241007_2123	0.1	139
20241007_2133	0.1	109
20241007_2143	0.2	143
20241007_2153	0.1	49
20241007_2203	0.6	59
20241007_2213	1	131
20241007_2223	0.1	340
20241007_2233	1.3	52
20241007_2243	0.1	97
20241007_2253	0.1	326
20241007_2303	0.1	350
20241007_2313	0.1	143
20241007_2323	0.1	113
20241007_2333	0.1	8
20241007_2343	0.1	347
20241007_2353	0.2	146

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241008_0003	0.1	342
20241008_0013	0.1	95
20241008_0023	0.8	85
20241008_0033	0.1	199
20241008_0043	0.2	142
20241008_0053	0.1	297
20241008_0103	0.1	110
20241008_0113	0.1	53
20241008_0123	0.1	263
20241008_0133	0.1	108
20241008_0143	0.1	101
20241008_0153	0.1	318
20241008_0203	0.1	37
20241008_0213	0.1	38
20241008_0223	0.1	58
20241008_0233	0.1	73
20241008_0243	0.1	58
20241008_0253	0.1	97
20241008_0303	0.1	71
20241008_0313	0.1	101
20241008_0323	0.1	0
20241008_0333	0.1	42
20241008_0343	0.1	60
20241008_0353	0.1	40
20241008_0403	0.1	88
20241008_0413	0.1	84
20241008_0423	0.1	101
20241008_0433	0.1	86
20241008_0443	0.1	62
20241008_0453	0.1	105
20241008_0503	0.1	79
20241008_0513	0.1	54
20241008_0523	0.1	319
20241008_0533	0.1	33
20241008_0543	0.1	320
20241008_0553	0.1	7
20241008_0603	0.1	72
20241008_0613	0.1	59
20241008_0623	0.1	0
20241008_0633	0.1	43
20241008_0643	0.1	153
20241008_0653	0.1	63
20241008_0703	0.1	135
20241008_0713	0.1	122
20241008_0723	0.3	156
20241008_0733	0.1	71
20241008_0743	0.3	147
20241008_0753	0.6	129
20241008_0803	0.3	165
20241008_0813	0.1	296
20241008_0823	0.1	10
20241008_0833	0.1	144
20241008_0843	0.1	232
20241008_0853	0.1	30
20241008_0903	1.4	58
20241008_0913	0.1	49
20241008_0923	0.1	146
20241008_0933	1.3	262
20241008_0943	0.8	57
20241008_0953	0.7	7
20241008_1003	1.8	89
20241008_1013	0.3	60
20241008_1023	0.5	348
20241008_1033	1.4	66
20241008_1043	0.6	74
20241008_1053	1.4	56
20241008_1103	2.1	342
20241008_1113	0.8	149
20241008_1123	0.1	30
20241008_1133	5.6	305
20241008_1143	0.2	89
20241008_1153	1.3	74

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241008_1203	0.3	162
20241008_1213	0.3	149
20241008_1223	1.5	66
20241008_1233	0.2	258
20241008_1243	0.5	91
20241008_1253	1.4	279
20241008_1303	0.3	300
20241008_1313	1.7	79
20241008_1323	0.1	307
20241008_1333	0.1	166
20241008_1343	0.1	123
20241008_1353	0.1	78
20241008_1403	1	106
20241008_1413	1.2	117
20241008_1423	0.1	174
20241008_1433	2.2	123
20241008_1443	1.2	136
20241008_1453	2	151
20241008_1503	0.1	196
20241008_1513	0.1	120
20241008_1523	0.1	24
20241008_1533	0.7	104
20241008_1543	0.1	35
20241008_1553	0.1	57
20241008_1603	0.5	100
20241008_1613	0.1	66
20241008_1623	0.4	171
20241008_1633	0.1	19
20241008_1643	0.2	80
20241008_1653	0.1	56
20241008_1703	0.1	64
20241008_1713	0.1	73
20241008_1723	0.1	85
20241008_1733	0.1	109
20241008_1743	0.1	137
20241008_1753	0.1	166
20241008_1803	0.1	148
20241008_1813	0.1	149
20241008_1823	0.1	111
20241008_1833	0.7	164
20241008_1843	0.5	97
20241008_1853	0.1	125
20241008_1903	0.4	115
20241008_1913	0.3	133
20241008_1923	0.1	89
20241008_1933	0.1	137
20241008_1943	0.5	111
20241008_1953	0.1	254
20241008_2003	0.1	96
20241008_2013	0.1	118
20241008_2023	0.1	73
20241008_2033	0.1	78
20241008_2043	0.1	93
20241008_2053	0.1	10
20241008_2103	0.1	18
20241008_2113	0.1	56
20241008_2123	0.1	78
20241008_2133	0.1	95
20241008_2143	0.1	93
20241008_2153	0.1	93
20241008_2203	0.1	87
20241008_2213	0.1	59
20241008_2223	0.1	348
20241008_2233	0.1	348
20241008_2243	0.1	86
20241008_2253	0.1	39
20241008_2303	0.1	321
20241008_2313	0.1	70
20241008_2323	0.1	70
20241008_2333	0.1	54
20241008_2343	0.1	56
20241008_2353	0.1	56

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241009_0003	0.1	50
20241009_0013	0.1	20
20241009_0023	0.1	340
20241009_0033	0.1	1
20241009_0043	1	270
20241009_0053	0.1	127
20241009_0103	0.1	348
20241009_0113	0.1	295
20241009_0123	0.1	279
20241009_0133	0.1	58
20241009_0143	0.1	65
20241009_0153	0.1	55
20241009_0203	0.1	98
20241009_0213	0.1	165
20241009_0223	0.1	247
20241009_0233	0.1	313
20241009_0243	0.1	313
20241009_0253	0.1	134
20241009_0303	0.1	36
20241009_0313	0.1	36
20241009_0323	0.1	93
20241009_0333	0.1	145
20241009_0343	0.1	158
20241009_0353	0.1	74
20241009_0403	0.1	101
20241009_0413	0.1	283
20241009_0423	0.1	310
20241009_0433	0.1	224
20241009_0443	0.1	117
20241009_0453	0.1	136
20241009_0503	0.1	56
20241009_0513	0.1	151
20241009_0523	0.1	151
20241009_0533	0.1	137
20241009_0543	0.1	101
20241009_0553	0.2	314
20241009_0603	0.1	298
20241009_0613	0.1	314
20241009_0623	0.1	339
20241009_0633	0.1	43
20241009_0643	0.1	73
20241009_0653	0.1	54
20241009_0703	0.1	100
20241009_0713	0.1	154
20241009_0723	0.1	150
20241009_0733	0.1	128
20241009_0743	0.1	101
20241009_0753	0.1	103
20241009_0803	0.1	198
20241009_0813	0.1	202
20241009_0823	0.1	253
20241009_0833	0.1	175
20241009_0843	0.1	155
20241009_0853	0.1	123
20241009_0903	0.1	222
20241009_0913	0.1	170
20241009_0923	0.1	134
20241009_0933	0.1	140
20241009_0943	0.1	180
20241009_0953	0.1	140
20241009_1003	0.8	146
20241009_1013	1	99
20241009_1023	1.4	122
20241009_1033	3.4	107
20241009_1043	0.2	118
20241009_1053	0.1	238
20241009_1103	0.1	94
20241009_1113	0.1	184
20241009_1123	0.1	321
20241009_1133	0.2	142
20241009_1143	0.1	210
20241009_1153	0.3	115

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241009_1203	0.2	109
20241009_1213	0.5	49
20241009_1223	0.3	84
20241009_1233	1	156
20241009_1243	0.1	14
20241009_1253	0.1	111
20241009_1303	0.1	104
20241009_1313	0.1	329
20241009_1323	0.1	178
20241009_1333	0.4	140
20241009_1343	0.5	123
20241009_1353	1.3	113
20241009_1403	0.1	30
20241009_1413	0.4	102
20241009_1423	0.7	149
20241009_1433	1.9	141
20241009_1443	0.8	149
20241009_1453	0.1	345
20241009_1503	0.2	122
20241009_1513	0.1	157
20241009_1523	0.1	78
20241009_1533	0.6	116
20241009_1543	0.1	205
20241009_1553	0.3	127
20241009_1603	0.4	104
20241009_1613	0.1	144
20241009_1623	0.1	135
20241009_1633	0.5	150
20241009_1643	0.1	46
20241009_1653	0.1	145
20241009_1703	0.1	161
20241009_1713	0.1	194
20241009_1723	0.1	248
20241009_1733	0.1	147
20241009_1743	0.1	328
20241009_1753	0.1	207
20241009_1803	0.1	122
20241009_1813	0.1	117
20241009_1823	0.1	331
20241009_1833	0.1	162
20241009_1843	0.1	201
20241009_1853	0.1	299
20241009_1903	0.1	79
20241009_1913	0.1	116
20241009_1923	0.1	127
20241009_1933	0.1	105
20241009_1943	0.1	133
20241009_1953	0.1	133
20241009_2003	0.1	133
20241009_2013	0.1	112
20241009_2023	0.1	84
20241009_2033	0.1	84
20241009_2043	0.1	162
20241009_2053	0.1	162
20241009_2103	0.1	161
20241009_2113	0.1	161
20241009_2123	0.1	161
20241009_2133	0.1	117
20241009_2143	0.1	104
20241009_2153	0.1	90
20241009_2203	0.1	331
20241009_2213	0.1	8
20241009_2223	0.1	11
20241009_2233	0.1	11
20241009_2243	0.1	41
20241009_2253	0.1	53
20241009_2303	0.1	44
20241009_2313	0.1	44
20241009_2323	0.1	52
20241009_2333	0.1	48
20241009_2343	0.1	1
20241009_2353	0.1	43

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241010_0003	0.1	54
20241010_0013	0.1	131
20241010_0023	0.1	97
20241010_0033	0.1	90
20241010_0043	0.1	86
20241010_0053	0.1	97
20241010_0103	0.1	97
20241010_0113	0.1	200
20241010_0123	0.1	129
20241010_0133	0.1	98
20241010_0143	0.1	98
20241010_0153	0.1	98
20241010_0203	0.1	82
20241010_0213	0.1	57
20241010_0223	0.1	105
20241010_0233	0.1	105
20241010_0243	0.1	89
20241010_0253	0.1	17
20241010_0303	0.1	136
20241010_0313	0.1	74
20241010_0323	0.1	74
20241010_0333	0.1	74
20241010_0343	0.1	74
20241010_0353	0.1	74
20241010_0403	0.1	60
20241010_0413	0.1	112
20241010_0423	0.1	135
20241010_0433	0.1	6
20241010_0443	0.1	113
20241010_0453	0.1	101
20241010_0503	0.1	101
20241010_0513	0.1	93
20241010_0523	0.1	76
20241010_0533	0.1	85
20241010_0543	0.1	91
20241010_0553	0.1	82
20241010_0603	0.1	114
20241010_0613	0.1	110
20241010_0623	0.1	86
20241010_0633	0.1	341
20241010_0643	0.1	49
20241010_0653	0.1	10
20241010_0703	0.1	145
20241010_0713	0.1	131
20241010_0723	0.1	110
20241010_0733	0.1	116
20241010_0743	0.1	139
20241010_0753	0.1	137
20241010_0803	0.5	146
20241010_0813	0.7	143
20241010_0823	0.1	136
20241010_0833	0.1	125
20241010_0843	1	156
20241010_0853	0.4	124
20241010_0903	0.3	138
20241010_0913	0.1	131
20241010_0923	0.2	123
20241010_0933	0.2	122
20241010_0943	0.6	165
20241010_0953	0.1	143
20241010_1003	0.1	24
20241010_1013	0.1	162
20241010_1023	0.7	151
20241010_1033	0.1	36
20241010_1043	1.1	48
20241010_1053	1.3	131
20241010_1103	0.6	141
20241010_1113	1.6	92
20241010_1123	0.4	14
20241010_1133	0.1	52
20241010_1143	0.3	72
20241010_1153	0.7	117

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241010_1203	0.2	261
20241010_1213	0.2	340
20241010_1223	0.6	117
20241010_1233	0.1	3
20241010_1243	0.5	119
20241010_1253	0.1	10
20241010_1303	0.1	333
20241010_1313	0.1	20
20241010_1323	0.2	125
20241010_1333	0.1	95
20241010_1343	0.1	353
20241010_1353	0.1	296
20241010_1403	1.1	100
20241010_1413	0.2	124
20241010_1423	0.1	292
20241010_1433	0.1	343
20241010_1443	0.1	117
20241010_1453	0.4	67
20241010_1503	0.1	65
20241010_1513	0.1	87
20241010_1523	0.3	145
20241010_1533	0.1	296
20241010_1543	0.1	30
20241010_1553	2.1	146
20241010_1603	0.1	18
20241010_1613	0.2	151
20241010_1623	0.1	17
20241010_1633	0.1	175
20241010_1643	0.2	24
20241010_1653	0.2	16
20241010_1703	0.3	10
20241010_1713	0.1	137
20241010_1723	0.1	351
20241010_1733	0.1	323
20241010_1743	0.1	160
20241010_1753	0.1	247
20241010_1803	0.3	12
20241010_1813	0.7	301
20241010_1823	0.1	240
20241010_1833	0.1	95
20241010_1843	0.1	290
20241010_1853	0.1	46
20241010_1903	0.3	281
20241010_1913	0.1	306
20241010_1923	0.1	194
20241010_1933	0.1	142
20241010_1943	0.1	151
20241010_1953	0.1	319
20241010_2003	0.4	294
20241010_2013	0.1	16
20241010_2023	0.1	32
20241010_2033	0.1	77
20241010_2043	0.1	118
20241010_2053	0.1	153
20241010_2103	0.1	52
20241010_2113	0.1	96
20241010_2123	0.2	108
20241010_2133	0.1	132
20241010_2143	0.1	85
20241010_2153	0.1	85
20241010_2203	0.8	111
20241010_2213	0.1	67
20241010_2223	0.1	96
20241010_2233	0.1	119
20241010_2243	0.1	104
20241010_2253	0.1	60
20241010_2303	0.1	117
20241010_2313	0.1	47
20241010_2323	0.1	101
20241010_2333	0.1	76
20241010_2343	0.1	163
20241010_2353	0.1	163

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241011_0003	0.1	149
20241011_0013	0.1	88
20241011_0023	0.1	64
20241011_0033	0.1	5
20241011_0043	0.1	49
20241011_0053	0.1	70
20241011_0103	0.1	36
20241011_0113	0.1	113
20241011_0123	0.1	157
20241011_0133	0.1	143
20241011_0143	0.1	39
20241011_0153	0.1	318
20241011_0203	0.1	54
20241011_0213	0.1	73
20241011_0223	0.1	86
20241011_0233	0.1	131
20241011_0243	0.1	130
20241011_0253	0.1	122
20241011_0303	0.1	69
20241011_0313	0.1	142
20241011_0323	0.1	96
20241011_0333	0.1	99
20241011_0343	0.1	88
20241011_0353	0.1	87
20241011_0403	0.1	113
20241011_0413	0.1	106
20241011_0423	0.1	274
20241011_0433	0.1	88
20241011_0443	0.1	276
20241011_0453	0.1	12
20241011_0503	0.1	264
20241011_0513	0.1	109
20241011_0523	0.1	115
20241011_0533	0.1	17
20241011_0543	0.1	110
20241011_0553	0.1	121
20241011_0603	0.1	121
20241011_0613	0.1	121
20241011_0623	0.1	121
20241011_0633	0.1	59
20241011_0643	0.1	77
20241011_0653	0.1	77
20241011_0703	0.1	74
20241011_0713	0.1	74
20241011_0723	0.1	83
20241011_0733	0.1	83
20241011_0743	0.1	83
20241011_0753	0.1	83
20241011_0803	0.1	116
20241011_0813	0.1	342
20241011_0823	0.1	65
20241011_0833	0.1	84
20241011_0843	0.1	191
20241011_0853	0.1	111
20241011_0903	0.2	99
20241011_0913	0.1	118
20241011_0923	0.1	83
20241011_0933	0.1	20
20241011_0943	0.1	351
20241011_0953	0.2	4
20241011_1003	0.1	225
20241011_1013	0.1	32
20241011_1023	0.4	153
20241011_1033	1.2	289
20241011_1043	0.6	16
20241011_1053	0.6	86
20241011_1103	0.7	136
20241011_1113	0.1	10
20241011_1123	0.1	86
20241011_1133	0.2	192
20241011_1143	0.1	31
20241011_1153	0.4	61

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241011_1203	0.2	58
20241011_1213	0.1	161
20241011_1223	0.1	189
20241011_1233	0.1	29
20241011_1243	0.1	65
20241011_1253	0.1	236
20241011_1303	0.2	162
20241011_1313	0.1	181
20241011_1323	0.1	117
20241011_1333	0.1	68
20241011_1343	0.1	354
20241011_1353	0.2	57
20241011_1403	0.1	45
20241011_1413	0.5	126
20241011_1423	0.2	5
20241011_1433	0.6	152
20241011_1443	0.1	111
20241011_1453	0.4	125
20241011_1503	0.1	188
20241011_1513	0.1	150
20241011_1523	0.1	60
20241011_1533	0.1	-1
20241011_1543	0.1	37
20241011_1553	0.1	129
20241011_1603	0.1	153
20241011_1613	0.1	34
20241011_1623	0.1	160
20241011_1633	0.1	182
20241011_1643	0.2	111
20241011_1653	0.1	168
20241011_1703	0.1	123
20241011_1713	0.1	46
20241011_1723	0.1	203
20241011_1733	0.1	153
20241011_1743	0.1	85
20241011_1753	0.1	137
20241011_1803	0.1	71
20241011_1813	0.1	351
20241011_1823	0.1	121
20241011_1833	0.1	167
20241011_1843	0.1	102
20241011_1853	0.7	130
20241011_1903	0.6	104
20241011_1913	0.1	125
20241011_1923	0.9	132
20241011_1933	0.9	97
20241011_1943	0.1	328
20241011_1953	0.1	148
20241011_2003	0.1	112
20241011_2013	0.2	155
20241011_2023	0.3	130
20241011_2033	0.1	178
20241011_2043	0.4	157
20241011_2053	0.1	102
20241011_2103	0.1	193
20241011_2113	0.1	156
20241011_2123	0.1	134
20241011_2133	0.1	157
20241011_2143	0.1	233
20241011_2153	0.1	313
20241011_2203	0.1	124
20241011_2213	0.1	121
20241011_2223	0.1	100
20241011_2233	0.1	126
20241011_2243	0.1	65
20241011_2253	0.1	149
20241011_2303	0.1	144
20241011_2313	0.1	77
20241011_2323	0.1	122
20241011_2333	0.1	238
20241011_2343	0.1	115
20241011_2353	0.1	253

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241012_0003	0.1	200
20241012_0013	0.1	90
20241012_0023	0.1	180
20241012_0033	0.1	145
20241012_0043	0.1	104
20241012_0053	0.1	124
20241012_0103	0.1	138
20241012_0113	0.1	166
20241012_0123	0.1	345
20241012_0133	0.1	117
20241012_0143	0.3	100
20241012_0153	0.2	76
20241012_0203	0.1	60
20241012_0213	0.1	110
20241012_0223	0.2	77
20241012_0233	0.1	132
20241012_0243	0.1	80
20241012_0253	0.1	15
20241012_0303	0.1	238
20241012_0313	0.1	199
20241012_0323	0.2	348
20241012_0333	0.2	141
20241012_0343	0.1	344
20241012_0353	0.3	157
20241012_0403	0.1	26
20241012_0413	0.1	16
20241012_0423	0.8	148
20241012_0433	0.2	120
20241012_0443	0.4	103
20241012_0453	0.1	248
20241012_0503	0.1	115
20241012_0513	0.1	261
20241012_0523	0.4	118
20241012_0533	0.1	168
20241012_0543	0.1	105
20241012_0553	0.1	265
20241012_0603	0.1	130
20241012_0613	0.1	142
20241012_0623	0.1	106
20241012_0633	0.1	294
20241012_0643	0.1	201
20241012_0653	0.1	285
20241012_0703	0.1	75
20241012_0713	0.1	68
20241012_0723	0.1	142
20241012_0733	0.1	194
20241012_0743	0.4	149
20241012_0753	1.6	21
20241012_0803	1.9	102
20241012_0813	0.6	82
20241012_0823	0.3	6
20241012_0833	5.9	334
20241012_0843	1.6	16
20241012_0853	0.9	159
20241012_0903	1	112
20241012_0913	0.1	284
20241012_0923	0.2	42
20241012_0933	0.2	52
20241012_0943	0.1	49
20241012_0953	0.1	101
20241012_1003	0.1	7
20241012_1013	0.5	340
20241012_1023	0.1	35
20241012_1033	0.4	320
20241012_1043	0.1	226
20241012_1053	0.2	35
20241012_1103	0.1	15
20241012_1113	0.2	328
20241012_1123	0.1	108
20241012_1133	0.9	27
20241012_1143	1.4	152
20241012_1153	0.1	84

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241012_1203	1.2	171
20241012_1213	0.3	144
20241012_1223	0.1	191
20241012_1233	0.7	206
20241012_1243	0.7	156
20241012_1253	0.4	177
20241012_1303	0.3	20
20241012_1313	0.2	120
20241012_1323	1	22
20241012_1333	0.2	54
20241012_1343	0.3	247
20241012_1353	0.1	56
20241012_1403	0.9	161
20241012_1413	0.5	74
20241012_1423	0.3	150
20241012_1433	1	172
20241012_1443	0.6	102
20241012_1453	0.4	229
20241012_1503	0.1	118
20241012_1513	0.1	186
20241012_1523	0.2	342
20241012_1533	0.2	348
20241012_1543	1	9
20241012_1553	0.1	129
20241012_1603	1	47
20241012_1613	0.1	41
20241012_1623	0.2	56
20241012_1633	0.1	8
20241012_1643	0.1	30
20241012_1653	0.1	312
20241012_1703	0.1	268
20241012_1713	1.5	298
20241012_1723	0.3	303
20241012_1733	0.1	4
20241012_1743	0.1	8
20241012_1753	0.5	342
20241012_1803	0.4	306
20241012_1813	0.2	34
20241012_1823	1.2	319
20241012_1833	0.3	14
20241012_1843	0.1	350
20241012_1853	0.2	31
20241012_1903	2.2	309
20241012_1913	0.6	345
20241012_1923	0.5	340
20241012_1933	0.4	166
20241012_1943	0.8	13
20241012_1953	0.4	11
20241012_2003	1.8	36
20241012_2013	0.9	326
20241012_2023	0.4	162
20241012_2033	0.1	61
20241012_2043	0.7	139
20241012_2053	0.3	128
20241012_2103	0.1	90
20241012_2113	0.1	318
20241012_2123	0.2	159
20241012_2133	0.1	157
20241012_2143	0.1	306
20241012_2153	0.2	174
20241012_2203	0.1	155
20241012_2213	0.1	329
20241012_2223	0.2	100
20241012_2233	0.1	79
20241012_2243	0.8	109
20241012_2253	0.1	334
20241012_2303	0.1	278
20241012_2313	0.1	39
20241012_2323	0.1	70
20241012_2333	0.1	51
20241012_2343	0.1	85
20241012_2353	1.3	117

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241013_0003	0.1	217
20241013_0013	0.1	80
20241013_0023	0.1	229
20241013_0033	0.1	10
20241013_0043	0.8	14
20241013_0053	0.3	159
20241013_0103	0.1	35
20241013_0113	0.1	128
20241013_0123	0.1	181
20241013_0133	0.1	269
20241013_0143	0.1	164
20241013_0153	0.1	296
20241013_0203	0.1	308
20241013_0213	0.1	133
20241013_0223	0.1	76
20241013_0233	0.1	142
20241013_0243	0.1	139
20241013_0253	0.2	140
20241013_0303	0.5	281
20241013_0313	0.1	5
20241013_0323	0.1	53
20241013_0333	0.1	203
20241013_0343	0.1	348
20241013_0353	0.1	321
20241013_0403	0.1	150
20241013_0413	0.3	124
20241013_0423	0.1	274
20241013_0433	0.1	72
20241013_0443	0.1	168
20241013_0453	0.2	127
20241013_0503	0.1	307
20241013_0513	0.1	245
20241013_0523	0.1	166
20241013_0533	0.1	145
20241013_0543	0.1	102
20241013_0553	0.1	161
20241013_0603	0.1	273
20241013_0613	0.1	152
20241013_0623	0.1	161
20241013_0633	0.1	309
20241013_0643	0.1	288
20241013_0653	0.1	90
20241013_0703	0.1	173
20241013_0713	0.1	155
20241013_0723	0.1	148
20241013_0733	0.1	98
20241013_0743	0.1	331
20241013_0753	0.1	124
20241013_0803	0.1	124
20241013_0813	0.1	94
20241013_0823	0.1	115
20241013_0833	0.1	120
20241013_0843	0.1	126
20241013_0853	0.1	193
20241013_0903	0.4	128
20241013_0913	0.6	140
20241013_0923	0.1	100
20241013_0933	0.3	218
20241013_0943	0.7	349
20241013_0953	0.2	46
20241013_1003	0.1	255
20241013_1013	0.1	223
20241013_1023	1.1	49
20241013_1033	0.5	83
20241013_1043	0.1	14
20241013_1053	0.1	68
20241013_1103	4	153
20241013_1113	0.1	166
20241013_1123	0.1	112
20241013_1133	0.6	86
20241013_1143	5.3	128
20241013_1153	0.8	341

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241013_1203	0.1	262
20241013_1213	0.5	49
20241013_1223	0.5	125
20241013_1233	0.6	160
20241013_1243	2.3	95
20241013_1253	4.2	115
20241013_1303	2.9	98
20241013_1313	0.8	115
20241013_1323	0.5	38
20241013_1333	3.9	3
20241013_1343	0.5	345
20241013_1353	0.7	34
20241013_1403	6.7	113
20241013_1413	0.2	68
20241013_1423	0.2	170
20241013_1433	0.1	41
20241013_1443	0.9	67
20241013_1453	0.8	350
20241013_1503	0.7	66
20241013_1513	0.6	39
20241013_1523	0.1	352
20241013_1533	0.1	179
20241013_1543	4.1	350
20241013_1553	0.2	208
20241013_1603	0.1	147
20241013_1613	0.2	348
20241013_1623	0.1	329
20241013_1633	0.2	17
20241013_1643	1	155
20241013_1653	0.7	30
20241013_1703	2.3	326
20241013_1713	0.1	315
20241013_1723	0.7	349
20241013_1733	0.1	309
20241013_1743	0.2	254
20241013_1753	0.1	218
20241013_1803	0.1	72
20241013_1813	0.1	347
20241013_1823	2.1	316
20241013_1833	0.1	33
20241013_1843	0.5	38
20241013_1853	1.3	10
20241013_1903	0.1	275
20241013_1913	0.2	154
20241013_1923	0.1	339
20241013_1933	0.1	51
20241013_1943	0.1	235
20241013_1953	0.8	24
20241013_2003	0.1	91
20241013_2013	0.6	123
20241013_2023	0.1	328
20241013_2033	0.1	98
20241013_2043	0.1	109
20241013_2053	0.1	140
20241013_2103	0.1	231
20241013_2113	0.1	161
20241013_2123	0.4	11
20241013_2133	0.1	103
20241013_2143	0.1	52
20241013_2153	0.2	128
20241013_2203	0.1	271
20241013_2213	0.2	68
20241013_2223	0.1	347
20241013_2233	2.8	22
20241013_2243	0.1	63
20241013_2253	0.1	27
20241013_2303	0.1	260
20241013_2313	0.5	123
20241013_2323	0.2	134
20241013_2333	0.1	67
20241013_2343	0.2	39
20241013_2353	0.1	312

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241014_0003	0.2	102
20241014_0013	0.5	157
20241014_0023	0.5	141
20241014_0033	0.1	120
20241014_0043	5.4	45
20241014_0053	1.5	37
20241014_0103	0.1	31
20241014_0113	1.4	28
20241014_0123	1.1	95
20241014_0133	0.3	86
20241014_0143	0.7	73
20241014_0153	0.8	151
20241014_0203	0.1	97
20241014_0213	0.1	132
20241014_0223	0.4	154
20241014_0233	0.1	331
20241014_0243	3.1	24
20241014_0253	0.1	122
20241014_0303	0.1	124
20241014_0313	0.1	178
20241014_0323	1	70
20241014_0333	0.2	338
20241014_0343	0.1	117
20241014_0353	1.6	167
20241014_0403	0.6	74
20241014_0413	0.9	147
20241014_0423	0.4	157
20241014_0433	0.6	137
20241014_0443	0.2	173
20241014_0453	0.3	139
20241014_0503	0.3	114
20241014_0513	0.1	151
20241014_0523	0.1	119
20241014_0533	0.1	161
20241014_0543	0.1	180
20241014_0553	0.1	123
20241014_0603	0.1	150
20241014_0613	0.1	65
20241014_0623	0.1	97
20241014_0633	0.6	158
20241014_0643	0.1	221
20241014_0653	0.5	104
20241014_0703	0.2	130
20241014_0713	0.7	162
20241014_0723	0.1	73
20241014_0733	0.3	57
20241014_0743	1.8	10
20241014_0753	0.7	95
20241014_0803	1.9	46
20241014_0813	0.1	174
20241014_0823	3.7	59
20241014_0833	0.9	20
20241014_0843	0.4	352
20241014_0853	1.3	70
20241014_0903	4.7	47
20241014_0913	0.3	113
20241014_0923	0.6	321
20241014_0933	0.1	90
20241014_0943	1	32
20241014_0953	1.3	80
20241014_1003	0.5	21
20241014_1013	0.1	7
20241014_1023	1.9	94
20241014_1033	0.7	64
20241014_1043	1.9	50
20241014_1053	1.1	111
20241014_1103	3.6	151
20241014_1113	0.6	326
20241014_1123	3.6	118
20241014_1133	3.2	57
20241014_1143	0.3	39
20241014_1153	1	186

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241014_1203	0.4	84
20241014_1213	1.9	138
20241014_1223	1.9	122
20241014_1233	0.9	259
20241014_1243	2.3	30
20241014_1253	4.3	110
20241014_1303	0.8	113
20241014_1313	1.3	96
20241014_1323	0.2	259
20241014_1333	3.7	100
20241014_1343	1.6	134
20241014_1353	3	68
20241014_1403	0.2	34
20241014_1413	2.7	61
20241014_1423	3.7	64
20241014_1433	1.4	127
20241014_1443	0.1	134
20241014_1453	2.9	6
20241014_1503	1.3	56
20241014_1513	1	75
20241014_1523	0.1	307
20241014_1533	0.4	56
20241014_1543	3	113
20241014_1553	0.1	332
20241014_1603	0.1	256
20241014_1613	0.8	176
20241014_1623	0.6	342
20241014_1633	0.1	1
20241014_1643	0.1	293
20241014_1653	0.2	305
20241014_1703	0.2	41
20241014_1713	0.1	35
20241014_1723	0.8	11
20241014_1733	0.1	243
20241014_1743	0.3	138
20241014_1753	0.1	104
20241014_1803	0.4	127
20241014_1813	0.1	48
20241014_1823	0.1	119
20241014_1833	0.1	111
20241014_1843	0.3	122
20241014_1853	0.1	64
20241014_1903	0.1	124
20241014_1913	0.5	0
20241014_1923	0.1	166
20241014_1933	0.1	152
20241014_1943	0.2	61
20241014_1953	0.1	151
20241014_2003	0.1	73
20241014_2013	3.9	48
20241014_2023	0.5	25
20241014_2033	0.8	39
20241014_2043	0.1	157
20241014_2053	0.1	116
20241014_2103	0.1	181
20241014_2113	0.3	169
20241014_2123	1.5	147
20241014_2133	0.2	246
20241014_2143	0.2	140
20241014_2153	0.1	173
20241014_2203	0.1	122
20241014_2213	0.1	196
20241014_2223	0.1	324
20241014_2233	0.1	177
20241014_2243	0.1	319
20241014_2253	0.1	71
20241014_2303	0.1	95
20241014_2313	0.1	121
20241014_2323	0.1	320
20241014_2333	0.1	116
20241014_2343	0.1	176
20241014_2353	0.1	99

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241015_0003	0.1	83
20241015_0013	0.1	70
20241015_0023	0.4	179
20241015_0033	0.1	168
20241015_0043	0.2	153
20241015_0053	0.1	147
20241015_0103	0.1	154
20241015_0113	0.1	111
20241015_0123	0.1	179
20241015_0133	0.5	150
20241015_0143	0.5	158
20241015_0153	0.1	142
20241015_0203	0.1	127
20241015_0213	0.1	82
20241015_0223	0.1	64
20241015_0233	1.9	129
20241015_0243	0.1	145
20241015_0253	0.1	126
20241015_0303	0.1	343
20241015_0313	0.1	322
20241015_0323	0.1	98
20241015_0333	0.1	204
20241015_0343	0.1	107
20241015_0353	0.1	127
20241015_0403	0.1	141
20241015_0413	0.1	224
20241015_0423	0.1	154
20241015_0433	0.1	39
20241015_0443	0.1	170
20241015_0453	0.1	342
20241015_0503	0.1	52
20241015_0513	0.1	116
20241015_0523	0.1	111
20241015_0533	0.1	69
20241015_0543	0.1	121
20241015_0553	0.1	68
20241015_0603	0.1	69
20241015_0613	0.1	67
20241015_0623	0.1	67
20241015_0633	0.1	68
20241015_0643	0.1	86
20241015_0653	0.1	89
20241015_0703	0.1	71
20241015_0713	0.1	72
20241015_0723	0.1	119
20241015_0733	0.1	113
20241015_0743	0.1	28
20241015_0753	0.2	348
20241015_0803	0.1	332
20241015_0813	0.2	113
20241015_0823	0.1	262
20241015_0833	0.1	200
20241015_0843	0.5	134
20241015_0853	0.1	117
20241015_0903	0.1	74
20241015_0913	1.2	14
20241015_0923	0.6	7
20241015_0933	0.1	115
20241015_0943	0.1	240
20241015_0953	0.1	147
20241015_1003	0.1	103
20241015_1013	0.7	158
20241015_1023	3.6	125
20241015_1033	2.8	158
20241015_1043	0.7	164
20241015_1053	2	296
20241015_1103	0.1	46
20241015_1113	0.1	35
20241015_1123	0.5	236
20241015_1133	1.7	54
20241015_1143	6.3	143
20241015_1153	1	10

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241015_1203	0.9	207
20241015_1213	1.4	144
20241015_1223	1.9	45
20241015_1233	1.7	120
20241015_1243	0.3	3
20241015_1253	0.2	281
20241015_1303	1.1	8
20241015_1313	0.1	329
20241015_1323	5.2	174
20241015_1333	0.4	89
20241015_1343	2.9	166
20241015_1353	0.1	205
20241015_1403	1	336
20241015_1413	0.4	20
20241015_1423	1.4	137
20241015_1433	0.5	279
20241015_1443	2.6	50
20241015_1453	0.1	60
20241015_1503	1.1	14
20241015_1513	1.8	141
20241015_1523	0.1	169
20241015_1533	0.1	30
20241015_1543	0.4	76
20241015_1553	0.6	45
20241015_1603	0.2	29
20241015_1613	0.1	192
20241015_1623	0.1	334
20241015_1633	0.1	60
20241015_1643	0.3	150
20241015_1653	0.1	26
20241015_1703	0.5	43
20241015_1713	1	98
20241015_1723	0.2	129
20241015_1733	0.1	150
20241015_1743	0.1	91
20241015_1753	0.1	67
20241015_1803	0.1	62
20241015_1813	0.1	68
20241015_1823	0.1	144
20241015_1833	0.5	111
20241015_1843	0.1	205
20241015_1853	0.2	77
20241015_1903	0.1	188
20241015_1913	0.4	38
20241015_1923	0.1	310
20241015_1933	0.1	142
20241015_1943	0.1	306
20241015_1953	0.1	164
20241015_2003	0.1	100
20241015_2013	0.2	43
20241015_2023	0.1	133
20241015_2033	0.1	185
20241015_2043	0.1	137
20241015_2053	0.1	144
20241015_2103	0.3	136
20241015_2113	0.1	140
20241015_2123	0.3	126
20241015_2133	0.1	335
20241015_2143	0.1	56
20241015_2153	0.1	349
20241015_2203	0.1	310
20241015_2213	0.1	120
20241015_2223	0.1	172
20241015_2233	0.1	308
20241015_2243	0.1	116
20241015_2253	0.1	79
20241015_2303	0.1	38
20241015_2313	0.1	80
20241015_2323	0.1	147
20241015_2333	0.1	135
20241015_2343	0.1	278
20241015_2353	0.1	44

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241016_0003	0.1	121
20241016_0013	0.1	152
20241016_0023	0.2	348
20241016_0033	0.5	150
20241016_0043	0.1	81
20241016_0053	0.1	292
20241016_0103	0.1	151
20241016_0113	0.1	225
20241016_0123	0.1	152
20241016_0133	0.1	154
20241016_0143	0.1	194
20241016_0153	0.1	195
20241016_0203	0.1	160
20241016_0213	0.1	160
20241016_0223	0.1	178
20241016_0233	0.1	56
20241016_0243	0.1	227
20241016_0253	0.1	175
20241016_0303	0.6	150
20241016_0313	0.1	41
20241016_0323	0.1	190
20241016_0333	0.1	293
20241016_0343	0.5	134
20241016_0353	0.4	129
20241016_0403	0.1	112
20241016_0413	0.1	178
20241016_0423	0.1	141
20241016_0433	0.3	147
20241016_0443	3.6	40
20241016_0453	0.2	125
20241016_0503	1.6	131
20241016_0513	0.2	126
20241016_0523	0.1	82
20241016_0533	0.1	170
20241016_0543	0.7	148
20241016_0553	1.2	30
20241016_0603	0.6	146
20241016_0613	1.1	25
20241016_0623	0.3	124
20241016_0633	0.1	99
20241016_0643	0.2	134
20241016_0653	0.1	181
20241016_0703	0.1	146
20241016_0713	0.1	0
20241016_0723	0.1	288
20241016_0733	0.5	128
20241016_0743	0.1	150
20241016_0753	0.1	39
20241016_0803	0.3	42
20241016_0813	1.7	109
20241016_0823	0.1	313
20241016_0833	0.2	88
20241016_0843	0.1	26
20241016_0853	0.1	57
20241016_0903	0.1	163
20241016_0913	0.6	50
20241016_0923	0.4	335
20241016_0933	2.6	308
20241016_0943	0.6	125
20241016_0953	0.8	151
20241016_1003	9.5	164
20241016_1013	1.1	90
20241016_1023	0.6	114
20241016_1033	0.1	343
20241016_1043	1.4	68
20241016_1053	1.3	351
20241016_1103	0.9	19
20241016_1113	0.2	344
20241016_1123	3.4	187
20241016_1133	0.4	53
20241016_1143	0.2	352
20241016_1153	0.1	37

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241016_1203	0.4	52
20241016_1213	3	130
20241016_1223	2.5	112
20241016_1233	0.6	26
20241016_1243	0.1	102
20241016_1253	0.1	41
20241016_1303	2.5	137
20241016_1313	3.9	211
20241016_1323	0.8	86
20241016_1333	1.5	18
20241016_1343	4.2	144
20241016_1353	1.6	58
20241016_1403	0.1	116
20241016_1413	0.1	348
20241016_1423	0.1	253
20241016_1433	2.6	116
20241016_1443	1	9
20241016_1453	0.1	139
20241016_1503	0.2	345
20241016_1513	0.7	108
20241016_1523	1.6	320
20241016_1533	0.7	89
20241016_1543	0.5	102
20241016_1553	6.7	120
20241016_1603	0.1	19
20241016_1613	0.1	95
20241016_1623	0.1	0
20241016_1633	0.1	252
20241016_1643	0.5	346
20241016_1653	0.1	40
20241016_1703	0.2	258
20241016_1713	0.1	299
20241016_1723	0.1	304
20241016_1733	0.1	53
20241016_1743	0.2	349
20241016_1753	0.3	127
20241016_1803	0.5	129
20241016_1813	0.1	236
20241016_1823	0.9	57
20241016_1833	2.1	153
20241016_1843	1	117
20241016_1853	1.6	40
20241016_1903	0.1	155
20241016_1913	2.4	342
20241016_1923	1.6	160
20241016_1933	1.4	341
20241016_1943	0.3	49
20241016_1953	0.4	347
20241016_2003	3.2	53
20241016_2013	1	40
20241016_2023	0.6	77
20241016_2033	0.6	121
20241016_2043	0.7	91
20241016_2053	1.7	148
20241016_2103	0.4	121
20241016_2113	1.3	325
20241016_2123	1.8	54
20241016_2133	0.5	76
20241016_2143	1	119
20241016_2153	0.2	39
20241016_2203	0.5	97
20241016_2213	0.8	78
20241016_2223	0.2	301
20241016_2233	0.6	263
20241016_2243	0.1	262
20241016_2253	0.6	339
20241016_2303	0.2	336
20241016_2313	0.6	117
20241016_2323	0.3	0
20241016_2333	0.1	296
20241016_2343	0.6	133
20241016_2353	0.1	143

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241017_0003	0.1	322
20241017_0013	0.1	129
20241017_0023	0.1	214
20241017_0033	0.1	329
20241017_0043	0.1	21
20241017_0053	0.1	165
20241017_0103	0.1	316
20241017_0113	0.2	337
20241017_0123	0.1	186
20241017_0133	0.3	122
20241017_0143	0.1	180
20241017_0153	0.1	201
20241017_0203	0.6	37
20241017_0213	0.1	246
20241017_0223	2.6	168
20241017_0233	0.3	107
20241017_0243	0.2	246
20241017_0253	0.1	79
20241017_0303	0.7	108
20241017_0313	0.1	112
20241017_0323	0.3	323
20241017_0333	0.1	352
20241017_0343	3.1	160
20241017_0353	0.1	269
20241017_0403	0.6	142
20241017_0413	0.1	56
20241017_0423	1.1	23
20241017_0433	3	55
20241017_0443	0.4	89
20241017_0453	2.1	158
20241017_0503	0.1	153
20241017_0513	0.4	116
20241017_0523	0.2	142
20241017_0533	0.1	332
20241017_0543	1.1	38
20241017_0553	0.4	84
20241017_0603	1.1	85
20241017_0613	1.6	279
20241017_0623	1.3	81
20241017_0633	1	22
20241017_0643	1.4	75
20241017_0653	0.1	158
20241017_0703	0.1	54
20241017_0713	0.8	154
20241017_0723	0.3	77
20241017_0733	1.3	125
20241017_0743	0.5	339
20241017_0753	2	204
20241017_0803	0.4	198
20241017_0813	1.5	52
20241017_0823	1.4	319
20241017_0833	1.1	20
20241017_0843	0.4	295
20241017_0853	1.4	150
20241017_0903	0.2	103
20241017_0913	1	82
20241017_0923	0.1	6
20241017_0933	0.3	193
20241017_0943	0.3	130
20241017_0953	0.1	184
20241017_1003	0.6	69
20241017_1013	1.4	24
20241017_1023	0.4	52
20241017_1033	0.1	342
20241017_1043	0.1	82
20241017_1053	0.1	310
20241017_1103	1.2	293
20241017_1113	0.1	143
20241017_1123	0.1	91
20241017_1133	0.1	114
20241017_1143	0.1	353
20241017_1153	0.7	139

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241017_1203	0.8	1
20241017_1213	0.4	70
20241017_1223	1.8	128
20241017_1233	2.9	63
20241017_1243	2.4	325
20241017_1253	0.1	161
20241017_1303	3	70
20241017_1313	0.3	117
20241017_1323	4	26
20241017_1333	0.1	97
20241017_1343	0.4	263
20241017_1353	0.3	118
20241017_1403	0.3	336
20241017_1413	0.1	283
20241017_1423	0.1	60
20241017_1433	0.3	204
20241017_1443	0.1	77
20241017_1453	0.2	93
20241017_1503	0.1	303
20241017_1513	1.1	151
20241017_1523	0.1	301
20241017_1533	0.1	30
20241017_1543	0.1	115
20241017_1553	0.1	38
20241017_1603	0.1	52
20241017_1613	0.1	34
20241017_1623	0.8	129
20241017_1633	1.1	178
20241017_1643	0.1	106
20241017_1653	1.1	61
20241017_1703	1.3	54
20241017_1713	0.6	316
20241017_1723	0.2	340
20241017_1733	0.9	63
20241017_1743	0.1	78
20241017_1753	0.1	46
20241017_1803	0.3	15
20241017_1813	0.3	351
20241017_1823	1.7	125
20241017_1833	0.1	327
20241017_1843	1.1	73
20241017_1853	0.1	267
20241017_1903	0.2	8
20241017_1913	0.1	120
20241017_1923	0.1	330
20241017_1933	0.1	169
20241017_1943	4.2	116
20241017_1953	0.2	304
20241017_2003	0.1	350
20241017_2013	0.5	348
20241017_2023	0.2	52
20241017_2033	0.2	21
20241017_2043	0.4	21
20241017_2053	0.6	66
20241017_2103	0.1	42
20241017_2113	0.1	96
20241017_2123	0.1	60
20241017_2133	2.2	342
20241017_2143	0.1	208
20241017_2153	0.1	319
20241017_2203	0.8	2
20241017_2213	1.4	7
20241017_2223	0.2	307
20241017_2233	1.5	33
20241017_2243	0.1	87
20241017_2253	4.2	49
20241017_2303	1.4	15
20241017_2313	5.3	49
20241017_2323	2.8	65
20241017_2333	0.1	19
20241017_2343	3.6	352
20241017_2353	2.8	59

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241018_0003	2.9	46
20241018_0013	1.3	33
20241018_0023	1.4	334
20241018_0033	0.1	336
20241018_0043	0.5	28
20241018_0053	4.1	69
20241018_0103	1.1	41
20241018_0113	1.3	35
20241018_0123	0.1	236
20241018_0133	0.1	39
20241018_0143	0.2	14
20241018_0153	3.7	117
20241018_0203	0.1	85
20241018_0213	1.7	344
20241018_0223	2.7	114
20241018_0233	0.1	185
20241018_0243	0.5	127
20241018_0253	0.1	348
20241018_0303	0.1	244
20241018_0313	0.1	-1
20241018_0323	0.2	27
20241018_0333	0.2	292
20241018_0343	0.1	116
20241018_0353	0.1	14
20241018_0403	0.3	27
20241018_0413	0.1	288
20241018_0423	0.3	119
20241018_0433	0.7	137
20241018_0443	0.1	87
20241018_0453	0.1	204
20241018_0503	0.1	350
20241018_0513	0.1	170
20241018_0523	0.1	32
20241018_0533	0.4	150
20241018_0543	0.1	299
20241018_0553	0.1	198
20241018_0603	0.5	37
20241018_0613	0.1	82
20241018_0623	0.1	131
20241018_0633	0.1	101
20241018_0643	0.1	136
20241018_0653	0.1	248
20241018_0703	0.1	107
20241018_0713	0.1	136
20241018_0723	0.1	60
20241018_0733	0.4	120
20241018_0743	0.1	76
20241018_0753	0.1	106
20241018_0803	0.4	108
20241018_0813	0.1	47
20241018_0823	0.1	300
20241018_0833	0.1	317
20241018_0843	0.1	221
20241018_0853	0.1	55
20241018_0903	0.1	45
20241018_0913	0.1	94
20241018_0923	0.1	315
20241018_0933	0.1	39
20241018_0943	0.1	15
20241018_0953	0.1	78
20241018_1003	0.1	328
20241018_1013	0.1	135
20241018_1023	0.1	76
20241018_1033	0.1	112
20241018_1043	0.1	98
20241018_1053	0.1	59
20241018_1103	0.1	44
20241018_1113	0.1	75
20241018_1123	0.1	138
20241018_1133	0.1	114
20241018_1143	0.1	23
20241018_1153	0.1	297

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241018_1203	2.9	46
20241018_1213	1.3	33
20241018_1223	1.4	334
20241018_1233	0.1	336
20241018_1243	0.5	28
20241018_1253	4.1	69
20241018_1303	1.1	41
20241018_1313	1.3	35
20241018_1323	0.1	236
20241018_1333	0.1	39
20241018_1343	0.2	14
20241018_1353	3.7	117
20241018_1403	0.1	85
20241018_1413	1.7	344
20241018_1423	2.7	114
20241018_1433	0.1	185
20241018_1443	0.5	127
20241018_1453	0.1	348
20241018_1503	0.1	244
20241018_1513	0.1	-1
20241018_1523	0.2	27
20241018_1533	0.2	292
20241018_1543	0.1	116
20241018_1553	0.1	14
20241018_1603	0.3	27
20241018_1613	0.1	288
20241018_1623	0.3	119
20241018_1633	0.7	137
20241018_1643	0.1	87
20241018_1653	0.1	204
20241018_1703	0.1	350
20241018_1713	0.1	170
20241018_1723	0.1	32
20241018_1733	0.4	150
20241018_1743	0.1	299
20241018_1753	0.1	198
20241018_1803	0.5	37
20241018_1813	0.1	82
20241018_1823	0.1	131
20241018_1833	0.1	101
20241018_1843	0.1	136
20241018_1853	0.1	248
20241018_1903	0.1	107
20241018_1913	0.1	136
20241018_1923	0.1	60
20241018_1933	0.4	120
20241018_1943	0.1	76
20241018_1953	0.1	106
20241018_2003	0.4	108
20241018_2013	0.1	47
20241018_2023	0.1	300
20241018_2033	0.1	317
20241018_2043	0.1	221
20241018_2053	0.1	55
20241018_2103	0.1	45
20241018_2113	0.1	94
20241018_2123	0.1	315
20241018_2133	0.1	39
20241018_2143	0.1	15
20241018_2153	0.1	78
20241018_2203	0.1	328
20241018_2213	0.1	135
20241018_2223	0.1	76
20241018_2233	0.1	112
20241018_2243	0.1	98
20241018_2253	0.1	59
20241018_2303	0.1	44
20241018_2313	0.1	75
20241018_2323	0.1	138
20241018_2333	0.1	114
20241018_2343	0.1	23
20241018_2353	0.1	297

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241019_0003	0.1	218
20241019_0013	0.1	222
20241019_0023	0.1	249
20241019_0033	0.1	249
20241019_0043	0.1	321
20241019_0053	0.1	349
20241019_0103	0.1	332
20241019_0113	0.1	331
20241019_0123	0.1	170
20241019_0133	0.1	170
20241019_0143	0.1	155
20241019_0153	0.1	143
20241019_0203	0.1	142
20241019_0213	0.1	157
20241019_0223	0.1	157
20241019_0233	0.1	74
20241019_0243	0.1	74
20241019_0253	0.1	74
20241019_0303	0.1	74
20241019_0313	0.1	74
20241019_0323	0.1	74
20241019_0333	0.1	71
20241019_0343	0.1	71
20241019_0353	0.1	70
20241019_0403	0.1	44
20241019_0413	0.1	46
20241019_0423	0.1	46
20241019_0433	0.1	46
20241019_0443	0.1	46
20241019_0453	0.1	46
20241019_0503	0.1	46
20241019_0513	0.1	46
20241019_0523	0.1	46
20241019_0533	0.1	46
20241019_0543	0.1	46
20241019_0553	0.1	46
20241019_0603	0.1	46
20241019_0613	0.1	46
20241019_0623	0.1	46
20241019_0633	0.1	24
20241019_0643	0.1	25
20241019_0653	0.1	25
20241019_0703	0.1	24
20241019_0713	0.1	24
20241019_0723	0.1	124
20241019_0733	0.1	156
20241019_0743	0.1	139
20241019_0753	0.1	140
20241019_0803	0.1	132
20241019_0813	0.1	128
20241019_0823	0.2	124
20241019_0833	0.5	141
20241019_0843	0.2	122
20241019_0853	0.1	290
20241019_0903	0.3	149
20241019_0913	0.2	127
20241019_0923	0.5	131
20241019_0933	0.3	291
20241019_0943	0.1	212
20241019_0953	0.1	181
20241019_1003	1.2	98
20241019_1013	0.1	123
20241019_1023	0.1	287
20241019_1033	0.1	82
20241019_1043	0.2	319
20241019_1053	0.9	339
20241019_1103	0.5	82
20241019_1113	0.1	121
20241019_1123	0.1	283
20241019_1133	0.7	330
20241019_1143	0.1	51
20241019_1153	1.7	64

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241019_1203	0.2	104
20241019_1213	0.1	3
20241019_1223	0.1	141
20241019_1233	0.1	66
20241019_1243	0.1	293
20241019_1253	0.3	38
20241019_1303	0.2	9
20241019_1313	0.1	301
20241019_1323	0.3	301
20241019_1333	0.1	52
20241019_1343	0.1	238
20241019_1353	0.1	46
20241019_1403	0.1	179
20241019_1413	0.7	57
20241019_1423	0.5	339
20241019_1433	0.4	6
20241019_1443	0.1	299
20241019_1453	0.2	161
20241019_1503	1.1	165
20241019_1513	2.5	40
20241019_1523	0.8	344
20241019_1533	0.4	136
20241019_1543	3.4	102
20241019_1553	0.2	76
20241019_1603	0.2	151
20241019_1613	0.1	41
20241019_1623	2.6	84
20241019_1633	1	79
20241019_1643	0.2	41
20241019_1653	0.2	29
20241019_1703	0.1	23
20241019_1713	0.1	352
20241019_1723	1.2	281
20241019_1733	1.1	22
20241019_1743	2.9	329
20241019_1753	0.3	34
20241019_1803	0.2	310
20241019_1813	1.2	2
20241019_1823	0.1	46
20241019_1833	0.4	347
20241019_1843	0.1	342
20241019_1853	0.1	285
20241019_1903	0.8	13
20241019_1913	0.1	42
20241019_1923	0.4	309
20241019_1933	0.1	332
20241019_1943	3.2	331
20241019_1953	0.1	348
20241019_2003	0.2	63
20241019_2013	0.3	351
20241019_2023	1	300
20241019_2033	1.1	284
20241019_2043	0.8	340
20241019_2053	2.2	334
20241019_2103	0.3	325
20241019_2113	0.1	63
20241019_2123	0.1	75
20241019_2133	0.4	341
20241019_2143	0.1	326
20241019_2153	1.4	7
20241019_2203	1.5	106
20241019_2213	1.1	43
20241019_2223	1.3	309
20241019_2233	0.9	142
20241019_2243	0.2	150
20241019_2253	0.5	3
20241019_2303	0.1	25
20241019_2313	0.5	146
20241019_2323	0.9	119
20241019_2333	2.3	109
20241019_2343	0.2	38
20241019_2353	2	108

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241020_0003	2.4	142
20241020_0013	0.4	131
20241020_0023	0.2	163
20241020_0033	2.8	146
20241020_0043	0.4	116
20241020_0053	0.1	179
20241020_0103	0.1	64
20241020_0113	0.3	98
20241020_0123	0.2	68
20241020_0133	0.5	166
20241020_0143	0.2	281
20241020_0153	1	72
20241020_0203	2.9	32
20241020_0213	0.5	156
20241020_0223	0.1	90
20241020_0233	0.1	106
20241020_0243	0.3	172
20241020_0253	0.9	17
20241020_0303	2.3	68
20241020_0313	0.1	181
20241020_0323	1.1	61
20241020_0333	0.9	164
20241020_0343	0.4	339
20241020_0353	0.2	161
20241020_0403	0.1	137
20241020_0413	0.3	28
20241020_0423	0.4	3
20241020_0433	0.1	77
20241020_0443	0.1	208
20241020_0453	1.4	326
20241020_0503	0.3	212
20241020_0513	3.9	17
20241020_0523	0.1	163
20241020_0533	0.4	123
20241020_0543	0.6	160
20241020_0553	0.1	146
20241020_0603	0.1	332
20241020_0613	0.1	130
20241020_0623	0.2	118
20241020_0633	0.7	147
20241020_0643	0.1	67
20241020_0653	0.9	3
20241020_0703	0.1	13
20241020_0713	0.3	296
20241020_0723	0.1	88
20241020_0733	1	58
20241020_0743	0.1	217
20241020_0753	0.1	99
20241020_0803	0.1	137
20241020_0813	0.1	347
20241020_0823	0.1	43
20241020_0833	0.1	162
20241020_0843	1.8	106
20241020_0853	0.6	142
20241020_0903	0.6	118
20241020_0913	1	47
20241020_0923	1.9	143
20241020_0933	1.6	169
20241020_0943	0.1	123
20241020_0953	0.8	127
20241020_1003	0.2	20
20241020_1013	0.1	330
20241020_1023	1.6	23
20241020_1033	3.9	41
20241020_1043	9.9	55
20241020_1053	2.9	178
20241020_1103	3.9	26
20241020_1113	2.6	165
20241020_1123	1.5	66
20241020_1133	1.1	5
20241020_1143	1.5	345
20241020_1153	0.4	71

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241020_1203	1	119
20241020_1213	0.8	58
20241020_1223	1.5	139
20241020_1233	0.1	37
20241020_1243	0.5	49
20241020_1253	0.8	351
20241020_1303	3.8	139
20241020_1313	0.2	184
20241020_1323	1.7	47
20241020_1333	1	101
20241020_1343	3.7	135
20241020_1353	0.1	352
20241020_1403	3	37
20241020_1413	1.6	11
20241020_1423	0.9	102
20241020_1433	0.5	68
20241020_1443	4.2	99
20241020_1453	0.1	211
20241020_1503	1.3	129
20241020_1513	0.1	78
20241020_1523	1.8	133
20241020_1533	0.1	34
20241020_1543	0.2	290
20241020_1553	1.1	149
20241020_1603	0.6	82
20241020_1613	1.2	159
20241020_1623	0.1	179
20241020_1633	0.7	123
20241020_1643	0.1	100
20241020_1653	0.2	138
20241020_1703	0.1	119
20241020_1713	0.3	142
20241020_1723	0.1	123
20241020_1733	0.2	204
20241020_1743	0.9	334
20241020_1753	0.1	36
20241020_1803	2.2	124
20241020_1813	0.4	103
20241020_1823	0.2	93
20241020_1833	0.1	99
20241020_1843	0.1	72
20241020_1853	0.1	153
20241020_1903	0.8	125
20241020_1913	0.1	147
20241020_1923	0.1	119
20241020_1933	0.1	136
20241020_1943	0.1	166
20241020_1953	0.1	62
20241020_2003	0.1	99
20241020_2013	0.1	126
20241020_2023	0.2	117
20241020_2033	0.1	41
20241020_2043	0.1	221
20241020_2053	0.1	112
20241020_2103	0.1	58
20241020_2113	0.1	35
20241020_2123	0.1	220
20241020_2133	0.1	11
20241020_2143	0.1	130
20241020_2153	0.1	171
20241020_2203	0.1	57
20241020_2213	0.1	143
20241020_2223	0.1	15
20241020_2233	0.1	90
20241020_2243	0.1	132
20241020_2253	0.1	114
20241020_2303	0.1	25
20241020_2313	0.1	114
20241020_2323	0.1	155
20241020_2333	0.1	123
20241020_2343	0.1	147
20241020_2353	0.1	132

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241021_0003	0.1	121
20241021_0013	0.1	122
20241021_0023	0.1	121
20241021_0033	0.1	88
20241021_0043	0.1	88
20241021_0053	0.1	88
20241021_0103	0.1	93
20241021_0113	0.1	93
20241021_0123	0.1	88
20241021_0133	0.1	111
20241021_0143	0.1	261
20241021_0153	0.1	161
20241021_0203	0.1	291
20241021_0213	0.1	32
20241021_0223	0.1	33
20241021_0233	0.1	33
20241021_0243	0.1	32
20241021_0253	0.1	110
20241021_0303	0.1	69
20241021_0313	0.1	82
20241021_0323	0.1	58
20241021_0333	0.1	38
20241021_0343	0.1	149
20241021_0353	0.1	111
20241021_0403	0.1	109
20241021_0413	0.1	121
20241021_0423	0.1	142
20241021_0433	0.1	38
20241021_0443	0.1	336
20241021_0453	0.1	104
20241021_0503	0.1	83
20241021_0513	0.1	153
20241021_0523	0.1	300
20241021_0533	0.1	117
20241021_0543	0.1	118
20241021_0553	0.1	147
20241021_0603	0.1	151
20241021_0613	0.3	134
20241021_0623	0.1	331
20241021_0633	0.1	88
20241021_0643	0.1	151
20241021_0653	0.1	101
20241021_0703	0.1	137
20241021_0713	0.1	169
20241021_0723	0.1	133
20241021_0733	0.1	137
20241021_0743	0.1	247
20241021_0753	0.1	15
20241021_0803	0.1	178
20241021_0813	0.1	297
20241021_0823	0.1	199
20241021_0833	0.1	160
20241021_0843	0.2	241
20241021_0853	0.1	101
20241021_0903	0.1	229
20241021_0913	1.6	121
20241021_0923	0.1	107
20241021_0933	0.5	63
20241021_0943	0.1	288
20241021_0953	0.8	87
20241021_1003	0.1	142
20241021_1013	0.4	128
20241021_1023	0.1	131
20241021_1033	0.1	150
20241021_1043	0.9	148
20241021_1053	0.1	215
20241021_1103	0.1	149
20241021_1113	1.1	282
20241021_1123	0.1	141
20241021_1133	0.2	331
20241021_1143	0.3	144
20241021_1153	0.1	126

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241021_1203	0.1	332
20241021_1213	0.6	140
20241021_1223	0.1	152
20241021_1233	0.1	20
20241021_1243	2.1	133
20241021_1253	0.2	273
20241021_1303	0.2	36
20241021_1313	0.2	15
20241021_1323	0.7	136
20241021_1333	1.9	171
20241021_1343	0.1	261
20241021_1353	0.1	50
20241021_1403	0.1	76
20241021_1413	0.1	348
20241021_1423	0.2	285
20241021_1433	0.3	80
20241021_1443	0.2	177
20241021_1453	1	292
20241021_1503	0.1	85
20241021_1513	0.3	332
20241021_1523	0.1	27
20241021_1533	0.4	139
20241021_1543	0.1	114
20241021_1553	0.1	90
20241021_1603	0.1	99
20241021_1613	0.1	34
20241021_1623	0.1	159
20241021_1633	0.1	338
20241021_1643	1	25
20241021_1653	0.1	41
20241021_1703	0.1	9
20241021_1713	0.1	157
20241021_1723	0.1	335
20241021_1733	0.1	282
20241021_1743	0.1	344
20241021_1753	0.1	125
20241021_1803	0.1	231
20241021_1813	0.4	339
20241021_1823	0.1	298
20241021_1833	0.2	112
20241021_1843	0.1	168
20241021_1853	0.1	261
20241021_1903	0.2	110
20241021_1913	0.1	111
20241021_1923	0.1	169
20241021_1933	0.1	150
20241021_1943	0.1	183
20241021_1953	0.3	125
20241021_2003	0.1	249
20241021_2013	0.1	128
20241021_2023	0.2	300
20241021_2033	0.1	287
20241021_2043	0.1	204
20241021_2053	0.1	151
20241021_2103	0.1	287
20241021_2113	0.1	124
20241021_2123	0.1	129
20241021_2133	0.5	45
20241021_2143	0.3	111
20241021_2153	0.1	90
20241021_2203	0.1	171
20241021_2213	0.1	321
20241021_2223	0.1	97
20241021_2233	0.1	6
20241021_2243	0.1	31
20241021_2253	0.2	123
20241021_2303	0.1	184
20241021_2313	0.1	122
20241021_2323	0.1	128
20241021_2333	0.1	163
20241021_2343	0.2	76
20241021_2353	0.1	64

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241022_0003	0.1	56
20241022_0013	0.3	139
20241022_0023	0.1	160
20241022_0033	0.1	110
20241022_0043	0.1	121
20241022_0053	0.1	118
20241022_0103	0.1	190
20241022_0113	0.1	129
20241022_0123	0.1	209
20241022_0133	0.1	206
20241022_0143	0.1	148
20241022_0153	0.1	76
20241022_0203	0.1	329
20241022_0213	0.1	43
20241022_0223	0.1	46
20241022_0233	0.1	117
20241022_0243	0.1	142
20241022_0253	0.1	135
20241022_0303	0.1	99
20241022_0313	0.1	76
20241022_0323	0.1	66
20241022_0333	0.1	62
20241022_0343	0.1	62
20241022_0353	0.1	62
20241022_0403	0.1	62
20241022_0413	0.1	41
20241022_0423	0.1	41
20241022_0433	0.1	42
20241022_0443	0.1	42
20241022_0453	0.1	42
20241022_0503	0.1	21
20241022_0513	0.1	15
20241022_0523	0.1	57
20241022_0533	0.1	51
20241022_0543	0.1	51
20241022_0553	0.1	51
20241022_0603	0.1	83
20241022_0613	0.1	57
20241022_0623	0.1	57
20241022_0633	0.1	57
20241022_0643	0.1	80
20241022_0653	0.1	80
20241022_0703	0.1	130
20241022_0713	0.1	216
20241022_0723	0.1	161
20241022_0733	0.1	147
20241022_0743	0.1	124
20241022_0753	0.1	124
20241022_0803	0.1	140
20241022_0813	0.8	122
20241022_0823	0.1	104
20241022_0833	0.8	148
20241022_0843	0.2	138
20241022_0853	0.1	250
20241022_0903	0.2	165
20241022_0913	0.3	55
20241022_0923	0.2	174
20241022_0933	0.2	145
20241022_0943	0.1	76
20241022_0953	0.5	36
20241022_1003	0.1	314
20241022_1013	0.7	80
20241022_1023	0.1	20
20241022_1033	0.2	280
20241022_1043	1	8
20241022_1053	0.1	138
20241022_1103	0.3	288
20241022_1113	0.1	22
20241022_1123	0.5	120
20241022_1133	0.2	51
20241022_1143	2.7	155
20241022_1153	1.5	9

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241022_1203	0.4	52
20241022_1213	0.8	180
20241022_1223	2.1	19
20241022_1233	0.2	141
20241022_1243	0.8	194
20241022_1253	0.1	101
20241022_1303	0.1	52
20241022_1313	1.5	126
20241022_1323	0.1	193
20241022_1333	0.2	43
20241022_1343	0.1	61
20241022_1353	0.2	226
20241022_1403	0.7	168
20241022_1413	3.3	32
20241022_1423	1.3	326
20241022_1433	0.1	200
20241022_1443	0.1	249
20241022_1453	0.2	74
20241022_1503	0.1	354
20241022_1513	0.1	13
20241022_1523	0.1	284
20241022_1533	0.1	110
20241022_1543	1.3	96
20241022_1553	0.1	56
20241022_1603	0.8	339
20241022_1613	0.9	55
20241022_1623	2.1	72
20241022_1633	0.1	32
20241022_1643	1	310
20241022_1653	0.1	72
20241022_1703	0.1	182
20241022_1713	0.3	300
20241022_1723	0.1	140
20241022_1733	0.1	9
20241022_1743	0.1	108
20241022_1753	2	49
20241022_1803	2.1	49
20241022_1813	1.1	341
20241022_1823	1.1	336
20241022_1833	0.4	303
20241022_1843	0.2	91
20241022_1853	1.5	45
20241022_1903	1.4	343
20241022_1913	1.1	182
20241022_1923	1.1	39
20241022_1933	1	36
20241022_1943	0.2	321
20241022_1953	0.4	353
20241022_2003	0.1	81
20241022_2013	0.1	154
20241022_2023	0.1	324
20241022_2033	0.8	107
20241022_2043	1.1	15
20241022_2053	1	25
20241022_2103	0.2	319
20241022_2113	7.1	60
20241022_2123	1.9	15
20241022_2133	1.7	50
20241022_2143	4.7	98
20241022_2153	0.4	182
20241022_2203	9.1	308
20241022_2213	3	312
20241022_2223	0.1	57
20241022_2233	1.7	0
20241022_2243	1.7	52
20241022_2253	7.8	263
20241022_2303	4.5	275
20241022_2313	5.4	346
20241022_2323	1.7	354
20241022_2333	9.4	294
20241022_2343	1.3	143
20241022_2353	4.3	54

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241023_0003	0.5	62
20241023_0013	1.7	318
20241023_0023	5.4	29
20241023_0033	1.7	273
20241023_0043	0.3	71
20241023_0053	0.4	15
20241023_0103	3.3	10
20241023_0113	3.9	277
20241023_0123	7.5	318
20241023_0133	2.2	307
20241023_0143	0.1	74
20241023_0153	5.2	290
20241023_0203	3.5	350
20241023_0213	0.2	123
20241023_0223	0.6	349
20241023_0233	0.1	131
20241023_0243	1.6	301
20241023_0253	1.5	139
20241023_0303	0.2	161
20241023_0313	1.8	32
20241023_0323	5.8	329
20241023_0333	0.1	291
20241023_0343	0.4	57
20241023_0353	0.1	170
20241023_0403	7.5	271
20241023_0413	4.5	311
20241023_0423	5.2	318
20241023_0433	2.7	333
20241023_0443	0.5	239
20241023_0453	4	4
20241023_0503	4.9	316
20241023_0513	0.2	307
20241023_0523	0.3	338
20241023_0533	2.8	14
20241023_0543	4.2	7
20241023_0553	2	318
20241023_0603	7.4	39
20241023_0613	0.2	342
20241023_0623	0.3	350
20241023_0633	0.1	144
20241023_0643	4.6	134
20241023_0653	3	337
20241023_0703	6.5	116
20241023_0713	1.3	274
20241023_0723	1	96
20241023_0733	6.7	129
20241023_0743	0.1	307
20241023_0753	0.4	39
20241023_0803	0.1	55
20241023_0813	1.5	307
20241023_0823	0.2	22
20241023_0833	0.1	336
20241023_0843	0.1	180
20241023_0853	7.4	307
20241023_0903	2.4	33
20241023_0913	3.7	108
20241023_0923	0.6	239
20241023_0933	0.1	151
20241023_0943	1.6	315
20241023_0953	4.2	290
20241023_1003	0.3	18
20241023_1013	0.1	247
20241023_1023	1	301
20241023_1033	0.3	116
20241023_1043	0.3	62
20241023_1053	4.4	338
20241023_1103	0.1	333
20241023_1113	4.6	307
20241023_1123	0.3	31
20241023_1133	2.9	294
20241023_1143	0.4	59
20241023_1153	4.1	340

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241023_1203	0.7	299
20241023_1213	1.1	106
20241023_1223	5.6	311
20241023_1233	1	329
20241023_1243	0.3	90
20241023_1253	3	87
20241023_1303	0.1	44
20241023_1313	0.2	33
20241023_1323	1.5	201
20241023_1333	1.1	41
20241023_1343	1.5	328
20241023_1353	2	310
20241023_1403	0.3	277
20241023_1413	0.6	329
20241023_1423	0.5	96
20241023_1433	0.6	45
20241023_1443	0.4	56
20241023_1453	3.7	59
20241023_1503	0.8	272
20241023_1513	0.8	73
20241023_1523	0.8	74
20241023_1533	1.5	130
20241023_1543	0.2	79
20241023_1553	0.1	317
20241023_1603	10	107
20241023_1613	1.1	154
20241023_1623	2.7	75
20241023_1633	1.2	132
20241023_1643	0.3	142
20241023_1653	0.4	107
20241023_1703	0.2	85
20241023_1713	0.1	347
20241023_1723	0.2	302
20241023_1733	0.1	85
20241023_1743	0.3	297
20241023_1753	0.1	92
20241023_1803	0.1	46
20241023_1813	0.3	88
20241023_1823	0.1	146
20241023_1833	1.1	289
20241023_1843	0.2	118
20241023_1853	1.2	315
20241023_1903	0.1	133
20241023_1913	0.1	262
20241023_1923	2.1	26
20241023_1933	2.3	288
20241023_1943	0.3	86
20241023_1953	0.2	323
20241023_2003	0.9	301
20241023_2013	0.9	89
20241023_2023	0.2	108
20241023_2033	0.5	190
20241023_2043	1	75
20241023_2053	0.8	155
20241023_2103	1.6	181
20241023_2113	0.2	311
20241023_2123	0.1	145
20241023_2133	3.3	130
20241023_2143	0.1	317
20241023_2153	0.1	334
20241023_2203	2	338
20241023_2213	0.1	156
20241023_2223	2.2	329
20241023_2233	0.1	15
20241023_2243	0.1	128
20241023_2253	0.3	114
20241023_2303	0.1	319
20241023_2313	0.1	242
20241023_2323	0.5	294
20241023_2333	2.6	311
20241023_2343	0.3	300
20241023_2353	0.2	0

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241024_0003	0.8	284
20241024_0013	6.6	330
20241024_0023	3.7	293
20241024_0033	4.3	54
20241024_0043	5.9	34
20241024_0053	11.7	285
20241024_0103	0.8	0
20241024_0113	0.3	63
20241024_0123	0.2	84
20241024_0133	9.5	321
20241024_0143	0.9	280
20241024_0153	4	49
20241024_0203	0.3	142
20241024_0213	0.6	117
20241024_0223	0.6	111
20241024_0233	1.5	300
20241024_0243	1.7	315
20241024_0253	2.3	266
20241024_0303	0.1	157
20241024_0313	2.9	333
20241024_0323	0.2	257
20241024_0333	0.5	9
20241024_0343	0.3	75
20241024_0353	1.5	103
20241024_0403	0.2	39
20241024_0413	2.3	122
20241024_0423	0.5	207
20241024_0433	6.6	166
20241024_0443	0.2	254
20241024_0453	1.1	14
20241024_0503	0.1	306
20241024_0513	0.2	91
20241024_0523	0.2	353
20241024_0533	1	264
20241024_0543	1.2	98
20241024_0553	0.1	260
20241024_0603	0.1	219
20241024_0613	5.2	326
20241024_0623	2.2	266
20241024_0633	0.4	329
20241024_0643	0.2	26
20241024_0653	0.2	97
20241024_0703	0.6	330
20241024_0713	0.2	21
20241024_0723	0.1	300
20241024_0733	2.4	302
20241024_0743	2.2	220
20241024_0753	0.5	80
20241024_0803	0.3	350
20241024_0813	0.4	43
20241024_0823	0.1	132
20241024_0833	2.1	64
20241024_0843	1	72
20241024_0853	0.5	89
20241024_0903	0.2	106
20241024_0913	1.1	64
20241024_0923	7.9	46
20241024_0933	0.1	24
20241024_0943	0.6	281
20241024_0953	3.4	75
20241024_1003	1.8	346
20241024_1013	1	39
20241024_1023	2.1	318
20241024_1033	0.3	348
20241024_1043	0.1	7
20241024_1053	3.6	308
20241024_1103	0.3	259
20241024_1113	0.1	230
20241024_1123	4.2	67
20241024_1133	0.4	320
20241024_1143	1.3	85
20241024_1153	0.1	195

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241024_1203	0.5	42
20241024_1213	2.2	143
20241024_1223	2.6	114
20241024_1233	2	219
20241024_1243	0.9	347
20241024_1253	0.1	121
20241024_1303	1.8	156
20241024_1313	0.1	57
20241024_1323	0.4	38
20241024_1333	3.7	52
20241024_1343	0.1	137
20241024_1353	0.4	11
20241024_1403	0.4	76
20241024_1413	0.7	93
20241024_1423	0.8	121
20241024_1433	0.2	57
20241024_1443	0.5	46
20241024_1453	0.2	145
20241024_1503	1.3	51
20241024_1513	0.4	349
20241024_1523	1.2	138
20241024_1533	0.7	116
20241024_1543	0.1	151
20241024_1553	0.2	37
20241024_1603	3.2	95
20241024_1613	1.2	116
20241024_1623	0.2	247
20241024_1633	1.2	46
20241024_1643	4.8	51
20241024_1653	0.1	42
20241024_1703	1	89
20241024_1713	0.1	137
20241024_1723	0.3	92
20241024_1733	0.1	72
20241024_1743	0.1	244
20241024_1753	0.1	226
20241024_1803	1.6	150
20241024_1813	1.1	284
20241024_1823	0.8	7
20241024_1833	0.1	55
20241024_1843	0.8	164
20241024_1853	1.6	157
20241024_1903	0.4	145
20241024_1913	0.1	233
20241024_1923	0.3	119
20241024_1933	1.2	60
20241024_1943	0.6	43
20241024_1953	2.8	261
20241024_2003	0.2	170
20241024_2013	2.7	136
20241024_2023	1.7	40
20241024_2033	5.4	82
20241024_2043	11.4	57
20241024_2053	4.5	290
20241024_2103	8.5	63
20241024_2113	2.7	39
20241024_2123	6.6	297
20241024_2133	4	159
20241024_2143	3	124
20241024_2153	6.2	128
20241024_2203	6	124
20241024_2213	1.2	142
20241024_2223	6.3	165
20241024_2233	0.1	106
20241024_2243	1.1	243
20241024_2253	1.8	306
20241024_2303	1.3	120
20241024_2313	3.3	321
20241024_2323	2.9	293
20241024_2333	0.1	56
20241024_2343	1.7	5
20241024_2353	0.9	258

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241025_0003	1	274
20241025_0013	3.4	39
20241025_0023	0.6	325
20241025_0033	1.1	245
20241025_0043	0.6	267
20241025_0053	0.3	37
20241025_0103	6.3	277
20241025_0113	0.8	123
20241025_0123	0.4	346
20241025_0133	2.6	313
20241025_0143	4.3	350
20241025_0153	0.5	36
20241025_0203	1.9	330
20241025_0213	4.8	32
20241025_0223	2.2	315
20241025_0233	0.4	305
20241025_0243	0.4	332
20241025_0253	3.7	55
20241025_0303	4.5	325
20241025_0313	0.4	77
20241025_0323	9.9	328
20241025_0333	3	57
20241025_0343	0.1	172
20241025_0353	0.1	224
20241025_0403	5.2	200
20241025_0413	0.1	333
20241025_0423	0.6	108
20241025_0433	0.2	95
20241025_0443	0.6	351
20241025_0453	0.1	45
20241025_0503	0.3	333
20241025_0513	0.2	83
20241025_0523	0.8	124
20241025_0533	0.1	104
20241025_0543	0.2	88
20241025_0553	0.6	263
20241025_0603	2.1	108
20241025_0613	3.4	174
20241025_0623	0.1	202
20241025_0633	2.9	109
20241025_0643	4	43
20241025_0653	0.6	68
20241025_0703	3.2	120
20241025_0713	0.2	65
20241025_0723	0.6	138
20241025_0733	0.2	335
20241025_0743	1.3	5
20241025_0753	6.9	54
20241025_0803	5	102
20241025_0813	3	279
20241025_0823	1.8	87
20241025_0833	0.4	316
20241025_0843	1.7	203
20241025_0853	5	47
20241025_0903	5.3	113
20241025_0913	0.1	193
20241025_0923	3.9	166
20241025_0933	0.7	28
20241025_0943	0.2	9
20241025_0953	0.5	106
20241025_1003	4.9	221
20241025_1013	1	188
20241025_1023	7	16
20241025_1033	0.5	9
20241025_1043	0.3	335
20241025_1053	8	97
20241025_1103	1.6	166
20241025_1113	0.9	261
20241025_1123	2.5	49
20241025_1133	3.9	91
20241025_1143	0.3	155
20241025_1153	0.1	283

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241025_1203	1.5	35
20241025_1213	8.1	26
20241025_1223	0.6	99
20241025_1233	0.5	59
20241025_1243	3.6	303
20241025_1253	4.1	348
20241025_1303	0.1	232
20241025_1313	3.8	340
20241025_1323	1.3	15
20241025_1333	4.1	307
20241025_1343	0.1	276
20241025_1353	0.4	251
20241025_1403	0.1	298
20241025_1413	5.6	42
20241025_1423	0.6	271
20241025_1433	0.4	31
20241025_1443	1	318
20241025_1453	0.3	31
20241025_1503	0.3	337
20241025_1513	4.3	248
20241025_1523	5.7	3
20241025_1533	3.4	288
20241025_1543	6.3	15
20241025_1553	1.4	301
20241025_1603	5.4	337
20241025_1613	2.2	108
20241025_1623	0.3	5
20241025_1633	0.5	326
20241025_1643	1.2	12
20241025_1653	8	11
20241025_1703	5.7	340
20241025_1713	5.4	335
20241025_1723	1.9	58
20241025_1733	1.1	319
20241025_1743	0.8	298
20241025_1753	10.2	293
20241025_1803	10.3	291
20241025_1813	0.4	288
20241025_1823	0.5	90
20241025_1833	0.3	145
20241025_1843	4.8	83
20241025_1853	0.2	316
20241025_1903	0.1	21
20241025_1913	2	143
20241025_1923	1	27
20241025_1933	1.8	20
20241025_1943	6.4	63
20241025_1953	2.8	95
20241025_2003	0.7	43
20241025_2013	2.4	32
20241025_2023	5	84
20241025_2033	2.2	32
20241025_2043	1.9	117
20241025_2053	1.3	298
20241025_2103	1.7	316
20241025_2113	1.6	9
20241025_2123	0.1	128
20241025_2133	0.3	213
20241025_2143	0.1	2
20241025_2153	1.2	57
20241025_2203	12.2	55
20241025_2213	1.6	339
20241025_2223	3.5	31
20241025_2233	2.6	35
20241025_2243	2.3	1
20241025_2253	1.4	22
20241025_2303	12.8	58
20241025_2313	2.6	308
20241025_2323	0.3	305
20241025_2333	0.1	225
20241025_2343	0.5	31
20241025_2353	0.1	257

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241026_0003	0.2	3
20241026_0013	0.8	76
20241026_0023	0.6	41
20241026_0033	0.9	339
20241026_0043	1.3	351
20241026_0053	1.1	339
20241026_0103	0.2	302
20241026_0113	1.6	348
20241026_0123	4.4	319
20241026_0133	0.8	300
20241026_0143	0.3	50
20241026_0153	3.9	297
20241026_0203	0.1	345
20241026_0213	0.2	291
20241026_0223	0.1	334
20241026_0233	0.4	342
20241026_0243	1.6	348
20241026_0253	1	279
20241026_0303	0.2	307
20241026_0313	2.1	342
20241026_0323	0.1	330
20241026_0333	1.2	60
20241026_0343	0.1	251
20241026_0353	0.1	47
20241026_0403	0.2	139
20241026_0413	0.9	30
20241026_0423	0.1	47
20241026_0433	0.3	66
20241026_0443	3	30
20241026_0453	0.3	56
20241026_0503	1	70
20241026_0513	1.4	14
20241026_0523	0.7	331
20241026_0533	0.7	323
20241026_0543	0.1	113
20241026_0553	0.1	280
20241026_0603	0.1	300
20241026_0613	0.1	325
20241026_0623	0.4	132
20241026_0633	0.2	291
20241026_0643	0.4	16
20241026_0653	0.1	165
20241026_0703	0.1	233
20241026_0713	0.3	327
20241026_0723	0.1	18
20241026_0733	0.3	230
20241026_0743	0.5	130
20241026_0753	0.1	354
20241026_0803	0.1	281
20241026_0813	0.1	186
20241026_0823	1.3	5
20241026_0833	0.4	285
20241026_0843	3	33
20241026_0853	0.3	273
20241026_0903	0.1	161
20241026_0913	0.1	160
20241026_0923	0.5	161
20241026_0933	0.1	88
20241026_0943	0.1	95
20241026_0953	0.9	129
20241026_1003	1.4	108
20241026_1013	0.2	321
20241026_1023	10.3	315
20241026_1033	0.9	275
20241026_1043	0.2	307
20241026_1053	0.8	278
20241026_1103	4.6	317
20241026_1113	3.8	335
20241026_1123	0.5	304
20241026_1133	0.3	3
20241026_1143	0.1	219
20241026_1153	0.6	311

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241026_1203	0.4	52
20241026_1213	0.3	85
20241026_1223	0.4	294
20241026_1233	0.4	305
20241026_1243	0.8	284
20241026_1253	0.2	299
20241026_1303	0.3	12
20241026_1313	0.1	218
20241026_1323	1	305
20241026_1333	1.6	286
20241026_1343	0.1	8
20241026_1353	0.2	320
20241026_1403	0.1	114
20241026_1413	0.1	126
20241026_1423	0.1	325
20241026_1433	0.1	37
20241026_1443	0.1	100
20241026_1453	0.1	97
20241026_1503	0.1	255
20241026_1513	0.1	230
20241026_1523	0.1	99
20241026_1533	0.1	310
20241026_1543	1.5	296
20241026_1553	0.1	130
20241026_1603	0.2	135
20241026_1613	0.1	130
20241026_1623	0.1	98
20241026_1633	0.1	162
20241026_1643	0.1	273
20241026_1653	0.2	92
20241026_1703	0.1	311
20241026_1713	0.1	177
20241026_1723	0.2	315
20241026_1733	0.1	338
20241026_1743	0.1	158
20241026_1753	0.1	236
20241026_1803	0.1	118
20241026_1813	0.1	130
20241026_1823	0.1	147
20241026_1833	0.1	189
20241026_1843	0.1	112
20241026_1853	0.1	153
20241026_1903	0.1	194
20241026_1913	0.1	167
20241026_1923	0.1	112
20241026_1933	0.1	104
20241026_1943	0.1	319
20241026_1953	0.1	260
20241026_2003	0.1	250
20241026_2013	0.1	341
20241026_2023	0.1	29
20241026_2033	0.1	126
20241026_2043	0.3	171
20241026_2053	0.1	328
20241026_2103	0.1	276
20241026_2113	0.3	149
20241026_2123	0.1	296
20241026_2133	0.1	145
20241026_2143	0.1	127
20241026_2153	0.1	180
20241026_2203	0.1	161
20241026_2213	0.1	315
20241026_2223	0.1	161
20241026_2233	0.1	152
20241026_2243	0.1	132
20241026_2253	0.1	167
20241026_2303	0.1	285
20241026_2313	0.1	111
20241026_2323	0.1	85
20241026_2333	0.1	131
20241026_2343	0.1	185
20241026_2353	0.1	140

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241027_0003	0.1	161
20241027_0013	0.1	98
20241027_0023	0.1	155
20241027_0033	0.1	121
20241027_0043	0.1	98
20241027_0053	0.1	155
20241027_0103	0.1	147
20241027_0113	0.1	105
20241027_0123	0.1	293
20241027_0133	0.1	341
20241027_0143	0.1	201
20241027_0153	0.1	30
20241027_0203	0.1	317
20241027_0213	0.1	140
20241027_0223	0.1	268
20241027_0233	0.1	39
20241027_0243	0.1	156
20241027_0253	0.1	305
20241027_0303	0.1	150
20241027_0313	0.1	151
20241027_0323	0.1	304
20241027_0333	0.1	62
20241027_0343	0.1	29
20241027_0353	0.1	305
20241027_0403	0.1	132
20241027_0413	0.1	333
20241027_0423	0.1	166
20241027_0433	0.1	35
20241027_0443	0.1	243
20241027_0453	0.1	150
20241027_0503	0.1	58
20241027_0513	0.1	64
20241027_0523	0.1	155
20241027_0533	0.1	205
20241027_0543	0.1	183
20241027_0553	0.1	154
20241027_0603	0.1	78
20241027_0613	0.1	39
20241027_0623	0.1	184
20241027_0633	0.1	269
20241027_0643	0.1	118
20241027_0653	0.1	156
20241027_0703	0.1	149
20241027_0713	0.1	100
20241027_0723	0.1	111
20241027_0733	0.1	144
20241027_0743	0.1	131
20241027_0753	0.1	150
20241027_0803	0.1	105
20241027_0813	0.7	150
20241027_0823	0.2	118
20241027_0833	0.3	154
20241027_0843	0.1	140
20241027_0853	0.1	190
20241027_0903	0.1	140
20241027_0913	0.1	150
20241027_0923	2.8	158
20241027_0933	0.4	242
20241027_0943	0.2	270
20241027_0953	0.4	306
20241027_1003	0.2	251
20241027_1013	0.1	289
20241027_1023	0.1	216
20241027_1033	0.1	252
20241027_1043	0.1	173
20241027_1053	0.2	287
20241027_1103	0.1	169
20241027_1113	0.5	143
20241027_1123	0.1	174
20241027_1133	0.1	250
20241027_1143	0.4	309
20241027_1153	0.3	160

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241027_1203	0.1	68
20241027_1213	0.3	142
20241027_1223	0.1	232
20241027_1233	0.1	141
20241027_1243	0.4	136
20241027_1253	0.1	21
20241027_1303	0.6	72
20241027_1313	0.1	154
20241027_1323	0.1	304
20241027_1333	0.1	91
20241027_1343	0.2	15
20241027_1353	0.3	317
20241027_1403	0.1	130
20241027_1413	0.1	123
20241027_1423	0.2	150
20241027_1433	0.4	146
20241027_1443	0.2	155
20241027_1453	0.1	141
20241027_1503	0.1	211
20241027_1513	0.1	135
20241027_1523	0.1	114
20241027_1533	0.1	133
20241027_1543	0.1	101
20241027_1553	0.1	209
20241027_1603	0.1	197
20241027_1613	0.1	110
20241027_1623	0.1	129
20241027_1633	0.1	327
20241027_1643	0.1	63
20241027_1653	0.1	72
20241027_1703	0.1	124
20241027_1713	0.1	108
20241027_1723	0.1	128
20241027_1733	0.1	124
20241027_1743	0.1	105
20241027_1753	0.1	104
20241027_1803	0.1	59
20241027_1813	0.1	103
20241027_1823	0.1	166
20241027_1833	0.1	166
20241027_1843	0.1	184
20241027_1853	0.1	86
20241027_1903	0.1	124
20241027_1913	0.1	348
20241027_1923	0.1	345
20241027_1933	0.1	96
20241027_1943	0.1	96
20241027_1953	0.1	13
20241027_2003	0.2	330
20241027_2013	0.1	9
20241027_2023	0.1	25
20241027_2033	0.1	139
20241027_2043	0.1	154
20241027_2053	0.1	146
20241027_2103	0.1	107
20241027_2113	0.1	99
20241027_2123	0.1	103
20241027_2133	0.1	69
20241027_2143	0.4	114
20241027_2153	0.1	109
20241027_2203	0.1	150
20241027_2213	0.1	76
20241027_2223	0.1	154
20241027_2233	0.2	336
20241027_2243	0.1	98
20241027_2253	0.1	107
20241027_2303	0.1	248
20241027_2313	0.1	141
20241027_2323	0.1	141
20241027_2333	0.1	64
20241027_2343	0.1	64
20241027_2353	0.1	126

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241028_0003	0.1	122
20241028_0013	0.1	71
20241028_0023	0.1	71
20241028_0033	0.1	76
20241028_0043	0.1	100
20241028_0053	0.1	108
20241028_0103	0.1	108
20241028_0113	0.1	150
20241028_0123	0.1	124
20241028_0133	0.1	138
20241028_0143	0.1	201
20241028_0153	0.1	181
20241028_0203	0.1	273
20241028_0213	0.3	269
20241028_0223	0.2	327
20241028_0233	0.2	344
20241028_0243	2.3	290
20241028_0253	0.1	327
20241028_0303	0.1	108
20241028_0313	0.6	336
20241028_0323	0.9	309
20241028_0333	1.7	298
20241028_0343	0.1	4
20241028_0353	0.1	264
20241028_0403	0.4	40
20241028_0413	0.2	292
20241028_0423	0.1	314
20241028_0433	0.6	303
20241028_0443	0.1	119
20241028_0453	0.2	336
20241028_0503	0.1	320
20241028_0513	0.1	17
20241028_0523	0.3	95
20241028_0533	0.1	20
20241028_0543	0.1	16
20241028_0553	0.1	201
20241028_0603	0.2	341
20241028_0613	0.1	36
20241028_0623	0.1	136
20241028_0633	0.1	142
20241028_0643	0.1	160
20241028_0653	0.1	121
20241028_0703	0.1	56
20241028_0713	0.1	249
20241028_0723	0.1	123
20241028_0733	0.5	266
20241028_0743	0.1	101
20241028_0753	0.2	0
20241028_0803	0.6	308
20241028_0813	0.2	335
20241028_0823	0.3	343
20241028_0833	1.1	301
20241028_0843	0.1	47
20241028_0853	0.1	31
20241028_0903	1.4	282
20241028_0913	0.3	237
20241028_0923	0.1	36
20241028_0933	0.1	222
20241028_0943	0.1	265
20241028_0953	0.1	49
20241028_1003	0.2	57
20241028_1013	0.1	296
20241028_1023	0.1	70
20241028_1033	0.1	28
20241028_1043	3	289
20241028_1053	0.5	338
20241028_1103	0.1	7
20241028_1113	0.1	30
20241028_1123	0.1	353
20241028_1133	0.1	306
20241028_1143	0.2	319
20241028_1153	0.1	43

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241028_1203	0.1	78
20241028_1213	0.1	13
20241028_1223	0.1	314
20241028_1233	0.1	344
20241028_1243	1.1	309
20241028_1253	0.1	258
20241028_1303	0.1	323
20241028_1313	0.1	323
20241028_1323	0.1	98
20241028_1333	0.1	43
20241028_1343	0.1	250
20241028_1353	0.1	333
20241028_1403	0.1	146
20241028_1413	0.1	152
20241028_1423	0.1	195
20241028_1433	0.1	165
20241028_1443	0.1	151
20241028_1453	0.1	85
20241028_1503	0.1	320
20241028_1513	0.1	246
20241028_1523	0.1	220
20241028_1533	0.1	178
20241028_1543	0.1	146
20241028_1553	0.1	126
20241028_1603	0.1	91
20241028_1613	0.1	109
20241028_1623	0.1	122
20241028_1633	0.1	100
20241028_1643	0.1	94
20241028_1653	0.1	72
20241028_1703	0.1	63
20241028_1713	0.1	117
20241028_1723	0.1	97
20241028_1733	0.1	90
20241028_1743	0.1	87
20241028_1753	0.1	84
20241028_1803	0.1	58
20241028_1813	0.1	2
20241028_1823	0.1	2
20241028_1833	0.1	27
20241028_1843	0.1	29
20241028_1853	0.1	29
20241028_1903	0.1	132
20241028_1913	0.1	32
20241028_1923	0.1	345
20241028_1933	0.1	145
20241028_1943	0.1	120
20241028_1953	0.1	89
20241028_2003	0.1	324
20241028_2013	0.1	155
20241028_2023	0.1	278
20241028_2033	0.1	95
20241028_2043	0.1	95
20241028_2053	0.1	111
20241028_2103	0.1	110
20241028_2113	0.1	60
20241028_2123	0.1	327
20241028_2133	0.1	199
20241028_2143	0.1	89
20241028_2153	0.1	50
20241028_2203	0.1	294
20241028_2213	0.1	157
20241028_2223	0.1	124
20241028_2233	0.1	342
20241028_2243	0.1	324
20241028_2253	0.1	320
20241028_2303	1.1	319
20241028_2313	0.1	339
20241028_2323	0.2	15
20241028_2333	0.1	1
20241028_2343	0.6	312
20241028_2353	0.1	35

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241029_0003	0.1	288
20241029_0013	0.1	325
20241029_0023	0.1	342
20241029_0033	0.1	276
20241029_0043	0.2	69
20241029_0053	0.1	83
20241029_0103	0.1	106
20241029_0113	0.3	110
20241029_0123	0.1	86
20241029_0133	0.1	93
20241029_0143	0.1	93
20241029_0153	0.1	335
20241029_0203	0.1	34
20241029_0213	0.1	46
20241029_0223	0.1	115
20241029_0233	0.1	22
20241029_0243	1.3	335
20241029_0253	0.1	5
20241029_0303	0.1	144
20241029_0313	0.5	294
20241029_0323	0.8	320
20241029_0333	0.2	285
20241029_0343	0.1	350
20241029_0353	0.1	15
20241029_0403	0.1	344
20241029_0413	0.1	100
20241029_0423	0.1	91
20241029_0433	0.1	99
20241029_0443	0.1	134
20241029_0453	0.1	134
20241029_0503	0.1	70
20241029_0513	0.1	150
20241029_0523	0.1	135
20241029_0533	0.1	128
20241029_0543	0.1	106
20241029_0553	0.1	136
20241029_0603	0.1	139
20241029_0613	0.1	116
20241029_0623	0.1	116
20241029_0633	0.1	135
20241029_0643	0.1	159
20241029_0653	0.1	142
20241029_0703	0.1	109
20241029_0713	0.1	124
20241029_0723	0.1	260
20241029_0733	0.1	143
20241029_0743	0.1	152
20241029_0753	0.1	145
20241029_0803	0.1	85
20241029_0813	0.1	161
20241029_0823	0.1	158
20241029_0833	0.1	142
20241029_0843	0.1	344
20241029_0853	0.1	185
20241029_0903	0.5	148
20241029_0913	0.4	145
20241029_0923	0.1	194
20241029_0933	0.1	224
20241029_0943	0.1	152
20241029_0953	0.1	252
20241029_1003	0.2	143
20241029_1013	0.9	143
20241029_1023	0.1	291
20241029_1033	0.1	328
20241029_1043	0.1	306
20241029_1053	0.2	281
20241029_1103	4.1	327
20241029_1113	0.1	9
20241029_1123	0.2	188
20241029_1133	0.2	14
20241029_1143	0.5	160
20241029_1153	0.5	107

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241029_1203	0.1	272
20241029_1213	0.3	329
20241029_1223	0.1	331
20241029_1233	0.1	136
20241029_1243	0.5	333
20241029_1253	0.1	61
20241029_1303	0.1	338
20241029_1313	0.2	276
20241029_1323	0.1	106
20241029_1333	0.1	72
20241029_1343	0.1	291
20241029_1353	0.1	38
20241029_1403	0.1	24
20241029_1413	0.1	13
20241029_1423	0.7	83
20241029_1433	0.1	92
20241029_1443	0.2	165
20241029_1453	0.1	115
20241029_1503	0.1	353
20241029_1513	0.1	108
20241029_1523	0.2	121
20241029_1533	1.1	160
20241029_1543	0.1	109
20241029_1553	0.5	45
20241029_1603	0.1	83
20241029_1613	0.1	352
20241029_1623	0.1	76
20241029_1633	0.8	117
20241029_1643	0.1	8
20241029_1653	0.1	98
20241029_1703	0.1	99
20241029_1713	0.3	49
20241029_1723	0.1	100
20241029_1733	0.1	125
20241029_1743	0.3	249
20241029_1753	0.1	40
20241029_1803	0.1	115
20241029_1813	0.1	197
20241029_1823	0.1	120
20241029_1833	0.1	276
20241029_1843	0.1	331
20241029_1853	0.1	8
20241029_1903	0.1	341
20241029_1913	0.1	87
20241029_1923	0.1	296
20241029_1933	0.1	292
20241029_1943	0.1	328
20241029_1953	0.2	133
20241029_2003	1.8	84
20241029_2013	0.1	107
20241029_2023	0.5	116
20241029_2033	0.1	156
20241029_2043	1.4	164
20241029_2053	2.2	52
20241029_2103	0.1	341
20241029_2113	0.1	209
20241029_2123	0.1	285
20241029_2133	0.1	135
20241029_2143	0.1	137
20241029_2153	0.1	101
20241029_2203	0.1	128
20241029_2213	0.1	147
20241029_2223	0.1	147
20241029_2233	0.1	122
20241029_2243	0.1	115
20241029_2253	0.1	116
20241029_2303	0.1	116
20241029_2313	0.1	116
20241029_2323	0.1	75
20241029_2333	0.1	75
20241029_2343	0.1	82
20241029_2353	0.1	123

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241030_0003	0.1	123
20241030_0013	0.1	66
20241030_0023	0.1	73
20241030_0033	0.1	73
20241030_0043	0.1	80
20241030_0053	0.1	80
20241030_0103	0.1	80
20241030_0113	0.1	80
20241030_0123	0.1	84
20241030_0133	0.1	270
20241030_0143	0.1	263
20241030_0153	0.1	285
20241030_0203	0.1	6
20241030_0213	0.1	348
20241030_0223	0.1	193
20241030_0233	0.1	298
20241030_0243	0.1	95
20241030_0253	0.1	71
20241030_0303	0.1	101
20241030_0313	0.1	125
20241030_0323	0.1	112
20241030_0333	0.1	150
20241030_0343	0.1	331
20241030_0353	0.1	78
20241030_0403	0.1	153
20241030_0413	0.1	91
20241030_0423	0.1	136
20241030_0433	0.1	135
20241030_0443	0.1	144
20241030_0453	0.1	154
20241030_0503	0.1	160
20241030_0513	0.1	38
20241030_0523	0.1	98
20241030_0533	0.1	98
20241030_0543	0.1	137
20241030_0553	0.1	137
20241030_0603	0.1	137
20241030_0613	0.1	137
20241030_0623	0.1	137
20241030_0633	0.1	137
20241030_0643	0.1	137
20241030_0653	0.1	137
20241030_0703	0.1	137
20241030_0713	0.1	111
20241030_0723	0.1	107
20241030_0733	0.1	163
20241030_0743	0.1	137
20241030_0753	0.1	172
20241030_0803	0.1	146
20241030_0813	0.1	100
20241030_0823	0.3	105
20241030_0833	0.1	263
20241030_0843	0.2	140
20241030_0853	0.2	123
20241030_0903	0.3	64
20241030_0913	0.2	67
20241030_0923	0.2	331
20241030_0933	0.1	85
20241030_0943	0.3	18
20241030_0953	1.4	341
20241030_1003	0.1	263
20241030_1013	0.1	243
20241030_1023	0.3	110
20241030_1033	0.3	103
20241030_1043	0.1	89
20241030_1053	1.9	52
20241030_1103	0.1	198
20241030_1113	0.1	169
20241030_1123	0.1	96
20241030_1133	0.1	15
20241030_1143	0.9	69
20241030_1153	0.3	-1

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241030_1203	0.5	82
20241030_1213	2.2	20
20241030_1223	4.5	34
20241030_1233	0.6	350
20241030_1243	0.1	83
20241030_1253	2.9	337
20241030_1303	0.5	11
20241030_1313	0.2	99
20241030_1323	0.1	45
20241030_1333	0.4	331
20241030_1343	0.5	125
20241030_1353	0.1	6
20241030_1403	0.1	217
20241030_1413	0.1	336
20241030_1423	0.1	3
20241030_1433	0.8	146
20241030_1443	0.8	123
20241030_1453	0.1	28
20241030_1503	0.1	10
20241030_1513	1.6	68
20241030_1523	0.1	343
20241030_1533	0.1	268
20241030_1543	0.1	263
20241030_1553	0.1	106
20241030_1603	0.1	253
20241030_1613	0.1	97
20241030_1623	0.1	332
20241030_1633	0.1	100
20241030_1643	0.1	147
20241030_1653	0.2	11
20241030_1703	0.1	144
20241030_1713	0.1	73
20241030_1723	0.1	14
20241030_1733	0.1	63
20241030_1743	0.1	63
20241030_1753	0.1	84
20241030_1803	0.1	34
20241030_1813	0.1	92
20241030_1823	0.1	30
20241030_1833	0.1	44
20241030_1843	0.1	42
20241030_1853	0.1	347
20241030_1903	0.1	335
20241030_1913	0.1	336
20241030_1923	0.1	97
20241030_1933	0.1	24
20241030_1943	0.1	64
20241030_1953	0.1	66
20241030_2003	0.1	66
20241030_2013	0.1	48
20241030_2023	0.1	69
20241030_2033	0.1	78
20241030_2043	0.1	70
20241030_2053	0.1	68
20241030_2103	0.1	66
20241030_2113	0.1	63
20241030_2123	0.1	63
20241030_2133	0.1	66
20241030_2143	0.1	78
20241030_2153	0.1	23
20241030_2203	0.1	68
20241030_2213	0.1	347
20241030_2223	0.1	49
20241030_2233	0.1	27
20241030_2243	0.1	8
20241030_2253	0.1	20
20241030_2303	0.1	65
20241030_2313	0.1	68
20241030_2323	0.1	175
20241030_2333	0.1	0
20241030_2343	0.1	61
20241030_2353	0.4	165

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241031_0003	0.1	96
20241031_0013	0.2	73
20241031_0023	0.1	158
20241031_0033	0.1	262
20241031_0043	0.1	139
20241031_0053	0.1	157
20241031_0103	0.1	165
20241031_0113	0.1	336
20241031_0123	0.1	44
20241031_0133	0.1	283
20241031_0143	0.1	157
20241031_0153	0.1	157
20241031_0203	0.1	294
20241031_0213	0.1	167
20241031_0223	0.1	159
20241031_0233	0.1	103
20241031_0243	0.1	265
20241031_0253	0.1	279
20241031_0303	0.1	298
20241031_0313	0.1	299
20241031_0323	0.6	327
20241031_0333	0.2	319
20241031_0343	0.2	319
20241031_0353	0.2	286
20241031_0403	0.1	286
20241031_0413	0.1	47
20241031_0423	0.1	301
20241031_0433	0.2	274
20241031_0443	0.1	323
20241031_0453	0.1	310
20241031_0503	0.1	249
20241031_0513	0.1	232
20241031_0523	0.1	61
20241031_0533	0.1	180
20241031_0543	0.1	169
20241031_0553	0.1	6
20241031_0603	0.1	187
20241031_0613	0.2	158
20241031_0623	0.1	34
20241031_0633	0.1	344
20241031_0643	0.3	324
20241031_0653	0.8	342
20241031_0703	0.1	94
20241031_0713	0.1	328
20241031_0723	0.2	337
20241031_0733	4.3	305
20241031_0743	0.2	17
20241031_0753	0.3	326
20241031_0803	0.1	295
20241031_0813	0.1	116
20241031_0823	1	148
20241031_0833	0.1	250
20241031_0843	2.5	233
20241031_0853	0.1	20
20241031_0903	0.1	274
20241031_0913	0.2	194
20241031_0923	0.2	31
20241031_0933	2.1	4
20241031_0943	1.8	135
20241031_0953	2	96
20241031_1003	0.2	143
20241031_1013	0.5	348
20241031_1023	0.5	134
20241031_1033	1.2	143
20241031_1043	0.6	91
20241031_1053	0.3	175
20241031_1103	0.1	125
20241031_1113	1.2	162
20241031_1123	3.3	142
20241031_1133	0.1	141
20241031_1143	0.8	238
20241031_1153	0.4	274

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20241031_1203	3.1	76
20241031_1213	2.8	156
20241031_1223	0.4	151
20241031_1233	2.6	90
20241031_1243	0.1	183
20241031_1253	3.3	154
20241031_1303	0.1	215
20241031_1313	3.4	99
20241031_1323	3	180
20241031_1333	0.1	235
20241031_1343	1	102
20241031_1353	0.1	185
20241031_1403	1.4	187
20241031_1413	1.7	130
20241031_1423	1.6	135
20241031_1433	1.2	252
20241031_1443	4.7	171
20241031_1453	0.1	144
20241031_1503	3.1	107
20241031_1513	5.8	164
20241031_1523	0.2	208
20241031_1533	0.1	173
20241031_1543	0.6	120
20241031_1553	0.2	156
20241031_1603	2.4	150
20241031_1613	0.9	165
20241031_1623	0.1	333
20241031_1633	1.1	67
20241031_1643	1.4	163
20241031_1653	1.1	149
20241031_1703	0.2	59
20241031_1713	0.9	161
20241031_1723	0.1	150
20241031_1733	0.1	110
20241031_1743	0.1	138
20241031_1753	2	108
20241031_1803	0.1	168
20241031_1813	0.2	87
20241031_1823	0.1	103
20241031_1833	0.1	143
20241031_1843	1.2	151
20241031_1853	0.8	146
20241031_1903	0.3	133
20241031_1913	1.2	107
20241031_1923	0.1	225
20241031_1933	0.4	151
20241031_1943	0.4	201
20241031_1953	0.4	110
20241031_2003	0.6	141
20241031_2013	0.1	190
20241031_2023	0.1	307
20241031_2033	0.1	148
20241031_2043	0.1	116
20241031_2053	0.2	106
20241031_2103	0.1	83
20241031_2113	0.1	145
20241031_2123	0.1	71
20241031_2133	0.1	12
20241031_2143	0.1	84
20241031_2153	0.1	2
20241031_2203	0.1	116
20241031_2213	0.3	325
20241031_2223	0.1	167
20241031_2233	0.1	74
20241031_2243	0.1	112
20241031_2253	0.1	44
20241031_2303	0.1	207
20241031_2313	0.1	127
20241031_2323	0.1	158
20241031_2333	0.1	298
20241031_2343	0.1	104
20241031_2353	0.1	105

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
Mar-24	70,683.04	0	0	68,989	0	1324.13	0	0	0	3.26	0	108.43	258.01
Apr-24	77,385.12	0	0	75,092	0	1883.87	0	0	0	0	0	112.54	296.71
May-24	45,429.31	0	1396.88	42,809	0	1022.68	0	0	0	0	0	90.72	110.1
Jun-24	24,576.63	0	4716.43	19,274	0	532.8	0	0	0	2.77	0	41.98	8.58
Jul-24	60,797.99	0	3676.77	55,948	0	1114.17	0	0	0	0	0	30.1	28.82
Aug-24	70,135.60	0	16982.92	51,327	0	1792.8	0	0	0	0	0	33.16	0
Sep-24	56,649.14	0	24837.59	28,116	0	3663	0	0	0	0	0	26.76	5.47
Oct-24	70,243.25	0	25338.41	41,202	0	3427.2	0	0	0	0	0	66.79	208.56
Total	1,130,662.38	0.00	76,949.00	1,023,820.37	0.00	24,457.35	0.00	0.00	0.00	39.35	0.00	895.30	4,501.01

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. 30 September 2024 Observation 1 – The waste skip and shovel bucket were placed upside down at SBA to prevent water accumulation.

Observation(s):

1. Chemical container mixed with C&D waste in waste skip at SBA.

Reminder(s)

1. The Contractor has been reminded that the exposed slope surface at Portion B2-1 should not only be covered with a green net, but also with tarpaulin sheets for short-term and shotcrete for long-term slope protection, to prevent silty stormwater runoff.

2. The Contractor has been reminded that the excavation materials near the u-channel should be removed and kept away from the u-channel, and that sandbag barriers should be provided near the u-channel to minimize the excavation materials from entering the drainage system at Portion B2-1 directly when a rainstorm occurs.

3. The Contractor has been reminded that the deposited silt and grit under the sedimentation basins at Portions B2-1 should be removed regularly in order to maintain the effectiveness of these sedimentation basins.

4. The Contractor has been reminded that the exposed slope should be covered by green net after earthwork at Portion A.

5. The Contractor has been reminded that any breaks in the slope protection should be maintained and shotcrete for long-term slope protection at SBA.

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

1. The Contractor has been reminded that chemical containers and C&D waste should be disposed of and collected separately, and that a chemical cabinet should be provided for segregation at SBA to prevent contamination.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/		
Name:	Joan Lo	/	Matt Choy/Kristy Wong/ Kyrie Wong	Simon Lee/ Marus Tam/Kenneth Lam/ Saga Lam
Date:	07 October 2024	/	07 October 2024	07 October 2024

Follow up action for previous Site Inspection:

1. 07 October 2024 Observation 1 – Chemical containers were removed at SBA.

Observation(s):

1. Unpaved main haul road is dusty and fugitive dust is observed at Portion A.
2. Activities of handing or storage of bulk cement or dry PFA shall be carried out in a totally enclosed system or facility at Portion E3-1.
3. The exposed slope at Portion B2-1 is observed to be not entirely covered by impervious sheeting.

Reminder(s)

1. The Contractor has been reminded that the excavation materials near the u-channel should be removed and kept away from the u-channel, and that sandbag barriers should be provided near the u-channel to minimize the excavation materials from entering the drainage system at Portion B2-1 directly when a rainstorm occurs.

2. The Contractor has been reminded that the exposed slope should be covered with green netting and that the dusty material should be disposed of as soon as possible after the earthwork at Portion A.

3. The Contractor has been reminded that any breaks in the slope protection should be maintained and shotcrete for long-term slope protection at SBA.

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

1. The Contractor has been advised that watering should be provided regularly to ensure the unpaved main haul road is kept damp to prevent dust dispersion at Portion A.
2. The Contractor has been recommended that the shelter-on top and the 3-sides should be provided for the activities of handing and storage of bulk cement or dry PFA at Portion E3-1.
3. The Contractor has been reminded that the exposed slope surface at Portion B2-1 should not only be covered with a green net, but also with tarpaulin sheets for short-term and shotcrete for long-term slope protection, to prevent silty stormwater runoff.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/		
Name:	Joan Lo	/	Matt Choy/Kristy Wong/ Kyrie Wong	Simon Lee/ Marus Tam/Kenneth Lam/ Saga Lam
Date:	14 October 2024	/	14 October 2024	14 October 2024

Follow up action for previous Site Inspection:

1. 14 October 2024 Observation 1 – Unpaved main haul road was dampened by watering at Portion A
2. 14 October 2024 Observation 2 – The shelter-on top and the 3-sides was provided for the activities of handling dry PFA at Portion E3-1.

Observation(s):

1. The generator without NRMM label is observed at Portion D.
2. The accumulated of wastewater with general waste in the skip is found at Portion A.

Reminder(s)

1. The Contractor has been reminded that the excavation materials near the u-channel should be removed and kept away from the u-channel, and that sandbag barriers should be provided near the u-channel to minimize the excavation materials from entering the drainage system at Portion B2-1 directly when a rainstorm occurs.
2. The Contractor has been reminded that the exposed slope should be covered with green netting and that the dusty material should be disposed of as soon as possible after the earthwork at Portion A.
3. The Contractor has been reminded that any breaks in the slope protection should be maintained and shotcrete for long-term slope protection at SBA.

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

1. The contractor has been reminded that NRMM label should be affixed on the generator at Portion D.
2. The contractor has been advised that the general waste and the accumulation of wastewater should be removed, and that the accumulation of wastewater should be treated by a silt removal facility at Portion A.

	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/ Kyrie Wong~~	Simon Lee/ ~~Marus Tam/Kenneth Lam/ Saga Lam~~
Date:	21 October 2024	21 October 2024	21 October 2024	21 October 2024

Follow up action for previous Site Inspection:

1. 14 October 2024 Observation 3 – The exposed slope at Portion B2-1 was covered by impervious sheet.
2. 21 October 2024 Observation 1 – NRMM label was affixed on the generator at Portion D.
3. 21 October 2024 Observation 2– The accumulated of wastewater and general waste in the skip were removed at Portion A.

Observation(s):

1. More than 20 bags of PFA material should be stored in the top and 3-sides of the shelter or covered with impervious sheeting at Portion A.
2. Open stockpiling of construction material should be covered with tarpaulin and removed as soon as possible at Portion E4.
3. Silt fence should be properly maintained at SBA.

Reminder(s)

1. The Contractor has been reminded that the excavation materials near the u-channel should be removed and kept away from the u-channel, and that sandbag barriers should be provided near the u-channel to minimize the excavation materials from entering the drainage system at Portion B2-1 directly when a rainstorm occurs.

2. The Contractor has been reminded that the exposed slope should be covered with green netting and that the dusty material should be disposed of as soon as possible after the earthwork at Portion A.

3. The Contractor has been reminded that any breaks in the slope protection should be maintained and shotcrete for long-term slope protection at SBA.

4. The Contractor has been reminded that the exposed slope should be covered with impervious sheeting and shotcrete for long-term slope protection at Portion E4.

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

1. The Contractor has been reminded that more than 20 bags of PFA material should be stored in a top and three-sided shelter or covered with an impervious sheet at Portion A.
2. The Contractor has been advised that open stockpiling of construction material should be removed and kept away from the sedimentation basin at Portion E4.
3. The Contractor has been recommended to arrange silt fence maintenance regularly to ensure silt fence efficiency at SBA.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/		
Name:	Joan Lo	/	Matt Choy/Kristy Wong/ Kyrie Wong	Simon Lee/ Marus Tam/Kenneth Lam/ Saga Lam
Date:	28 October 2024	/	28 October 2024	28 October 2024

Appendix L Environmental Mitigation Implementation Schedule (EMIS)

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	• Dust emission from construction vehicle movement is confined within the worksites area.					✓
		B11 – B12	• Watering facilities will be provided at every designated vehicular exit point.					Vehicle washing facilities provided at vehicular exit point in Portion A, B1-2, D, E3-1 & E4
		-	• 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 officer 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> • (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) ✓ (b) ✓
		D2	(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) ✓ (b) ✓ (c) ✓
		D3	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	(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) ✓

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Construction Runoff (Cont'd)								
S5.8.1	S5.2.1	D5	• (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) ✓
		D6	• (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) ✓
		D7	• (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	• Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50 m^3 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.					✓
		D9	• (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	• 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 silly surface runoff during storm events, especially for areas located near steep slopes.					✓
		D11	• (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 silly water to public roads and drains.					(a) ✓ (b) ✓ (c) ✓ (d) ✓ (e) ✓
		D12	• (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	• 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	• 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	• To prevent pollution risks arising from works area (waste reception area) and haul roads, intercepting bund or barrier along the roadside should be constructed.					✓
		D19	<u>Sewage Effluent from Workforce</u> • (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) ✓
		D20	• 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.					N/A

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Construction Runoff (Cont'd)								
S5.8.1	S5.2.1	D19	<u>Sewage Effluent from Workforce</u> • (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.	Control sewage effluent arising from the sanitary facilities provided for the on-site construction workforce	Contractor	On-site sanitary facilities	ProPECC PN 1/94 DSD Technical Circular TC01/2017 Water Pollution Control Ordinance Waste Disposal Ordinance	(a) ✓ (b) ✓
		D20	• 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.					N/A
		-	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.					✓
S5.8.1	S5.2.1	D21	<u>Accidental Spillage of Chemical</u> • (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 Water Pollution Control Ordinance Waste Disposal Ordinance	(a) N/A (b) N/A
Erosion Control Measures								
S5.8.2	S5.2.2	-	<u>Erosion Control /Measures</u> 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.	Erosion control	Contractor	Drainage system	ProPECC PN 1/94 Water Pollution Control Ordinance	✓
		-	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.					✓
		-	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.					✓
		-	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.					To be implemented
		-	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.					To be implemented
			f. Sod Establishes permanent turf for immediate erosion protection and stabilizes drainageways.					✓
			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.					✓

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Erosion Control Measures (Cont'd)								
S5.8.2	S5.2.2		h. Plastic Sheeting Plastic Sheeting 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	• (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	• (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) ✓
		-	• 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
		-	• 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> • 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	✓
		-	• 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.					✓
		-	• Appropriate waste management should be implemented in accordance with the ETWB TC(W) No. 19/2005.					✓
		E4	• (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	• 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	• (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) ✓

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Waste Management (Cont'd)								
S6	WM1	E7	• (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	• (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	• 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	• 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	• Training of site personnel for cleanliness, proper waste management procedures including chemical waste handling, and waste reduction, reuse and recycling concepts.					✓
		E12	• Regular cleaning and maintenance programme systems, sumps and oil interceptors.					✓
		E13	• (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
			• 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	<u>Chemical Waste</u> • 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	✓
		-	• 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	• 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	• (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	• Chemical waste should be collected by licensed waste collectors and disposed of at licensed facility, e.g. Chemical Waste Treatment Centre.					✓

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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 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)	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.				F&IU (Confined Spaces) Regulations	✓
	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.				Code of Practice on Safety and Health at Work in Confined Spaces	✓
	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

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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.					✓

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#	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
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) Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes, EPD (1992) ETWB TC(W)) No. 33/2002 Management of Construction and Demolition Material Including Rock DEVB TC(W) No. 6/2010 Trip Ticket System for Disposal of Construction and Demolition Materials ETWB TC(W)No.19/2005 Environmental Management on Construction Sites	✓
	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 reposited 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

SITE BOUNDARY

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 ay 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
C007_20240509	9 May 2024	EPD-RNG	ET	Water Quality	13 May 2024	It was noted from EPD-RNG's email to the ET on 9 May 2024 that EPD receipted a memo from DSD/Mainland North regarding the incident of muddy water observed in Ping Yuen River, at the downstream of NENTX, on 23 April 2024. In summary of the investigation, the muddy water at the complaint location involved multi-potential sources (including the construction runoff of the project and runoff from existing landfill) based on the distance between the outlet of the project discharge point and the complaint location (distance around 1.16 km). The mitigation measures are recommended and reminded to implement and review by the contractor.	16 July 2024

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	6(1*)	0	6(1*)
Waste Management	0	0	0
Total	7(2*)	0	7(2*)

Remarks:

1. * Equal to non-project related
2. # Equal to the complaint under the investigation.

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