



13 January 2024

Our Ref: JC/MC/KW/N74026/24/tt

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

Attn: Ms. Trista Lau

Dear Sirs,

Contract No. EP/SP/77/15
North-East New Territories Landfill Extension (NENTX)
NENTX – Submission of Monthly EM&A Report (No. 13) – December 2023

In accordance with Condition 3.3 of the EP-292/2007 and FEP-02/292/2007 for the North East New Territories (NENT) Landfill Extension Project (the Project), we are now submitting 2 hard copies and one electronic copy (in CD-ROM format) of the Monthly EM&A Report (No. 13) – December 2023 for the construction stage dated 10 January 2024 together with ET's certification letter and IEC's verification for your perusal.

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

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

Colin Mitchell
Project Manager

Encl.

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

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

Monthly Environmental
Monitoring and Audit Report
(No. 13) – December 2023

2024-01-10

Our Ref.: CL/91823/0979-VES
Date: 12 January 2024

By Email

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

Attn.: Mr. Colin Mitchell

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

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Dear Sir

Re: Contract No. EP/SP/77/15
North-East New Territories Landfill Extension (NENTX)
Monthly Environmental Monitoring and Audit Report (No.13) –
December 2023

I refer to Condition 3.3 under Environmental Permit No. EP-292/2007 and Further Environmental Permit No. FEP-01/292/2007 and FEP-02/292/2007, regarding the submission of a monthly Environmental Monitoring and Audit report. I hereby verify the captioned "Monthly Environmental Monitoring and Audit Report (No.13) – December 2023" dated 12 January 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

Aurecon Hong Kong Limited
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Ref: P521530-0000-REP-NN-0079

By Email

12 January 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.13) – December
2023

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.13) – December 2023" dated 12 January 2024 for your verification.

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

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

A handwritten signature in blue ink, appearing to read "Fredrick Leong".

Fredrick Leong
Environmental Team Leader

Encl.

1. Monthly Environmental Monitoring and Audit Report (No.13) – December 2023

cc.

1. IEC - Ms. Claudine Lee (By email: claudinelee@meinhardt.com.hk)
2. IEC Representative – Ms. Echo Hung (By email: echohung@meinhardt.com.hk)

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Name	Keith Chau	Name	Fredrick Leong
Title	Associate, Environmental	Title	Environmental Team Leader

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Executive Summary

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

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

This 13th Monthly EM&A Report presents the EM&A works conducted from 1 to 31 December 2023 in accordance with the EM&A Manual.

Summary of Construction Works undertaken during Report Period

The major construction works undertaken during the reporting period include:

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

Environmental Monitoring and Audit Progress

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

Items	Times	Date
- Air Quality Monitoring during normal weekdays at each monitoring station	6 times	1, 7, 13, 19, 23 & 29 December 2023
- Construction Noise Monitoring during normal weekdays at each monitoring station	5 times	1, 7, 13, 19 & 29 December 2023
- Surface Water Quality Monitoring during normal weekdays at each monitoring station	1 time	19 December 2023
- Landfill Gas Monitoring during normal weekdays for Construction Works	24 times	1 to 2, 4 to 9, 11 to 16, 18 to 23, 27 to 30 December 2023
- Joint Environmental Site Inspection	4 times	4, 11, 18 & 27 December 2023
- General Site Inspection by EPD-RNG	1 time	11 December 2023

Environmental Exceedance

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

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

Environmental Non-conformance/Complaint/Summons and Prosecution

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

Reporting Change

There was no reporting change in the reporting period.

Future Key Issues

Works to be undertaken in the next month include:

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

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

1. Introduction

1.1. Background

- 1.1.1. The North East New Territories Landfill Extension (the NENTX Project) is located adjacent to the existing North East New Territories (NENT) Landfill at Ta Kwu Ling. The extension site is located in a valley covering mainly the existing NENT Landfill Stockpile and Borrow Area that was formed to the east of the existing landfill as part of the original site development of the landfill, and layout plan shown in **Figure 1**.
- 1.1.2. The NENTX is a designated project. The Environmental Impact Assessment (EIA) Report (AEIAR-111/2007) and an Environmental Monitoring and Audit Manual were approved on 20 September 2007. The project is governed by an Environmental Permit (EP) (EP-292/2007) which was granted on 26 November 2007. A further of EP (FEP) was applied and the FEP (FEP-01/292/2007) was subsequently granted on 28 April 2022. Another further of EP (FEP-02/292/2007) was subsequently granted on 23 August 2023.
- 1.1.3. In accordance with the requirements specified in Section 2.6 to 2.10 and Section 12.3 of the approved Environmental Monitoring and Audit (EM&A) Manual and Environmental Permit (EP and FEP) condition 3.3, Monthly EM&A report should be submitted to the Director of Environmental Protection (DEP), within 2 weeks after the end of the reporting month. The submissions shall be certified by the Environmental Team (ET) Leader and verified by the Independent Environmental Checker (IEC).
- 1.1.4. The construction phase and EM&A programme of the Project commenced on 1 December 2022.

1.2. Nature, Scale and Scope of the captioned Designated Project

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

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

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

1.3. Purpose of this Report

1.3.1. This is the 13th 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 December 2023.

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

2. Project Information

2.1. Construction Activities

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

2.2. Project Organization & Management Structure

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

Table 2-1 Contact Information of Key Personnel

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

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

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

Table 2-2 Status of Submissions required under the FEP & EP during reporting period

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

2.4. Status of Environmental Approval Document

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

Table 2-3 Summary of the relevant valid permits, licences, and/or notifications on environmental protection

Permit / Licenses / Notification	Reference	Expiry Date	Remark
Environmental Permit (EP)	EP-292/2007	Throughout the Contract	Permit granted on 26 November 2007
Further Environmental Permit (FEP)	FEP-01/292/2007	Throughout the Contract	Permit granted on 28 April 2022
Further Environmental Permit (FEP)	FEP-02/292/2007	Throughout the Contract	Permit granted on 23 August 2023
Notification of Construction Works as required under Air Pollution Control (Construction Dust) Regulation	479809	Throughout the Construction Phase	Notified on 13 May 2022
Registration of Waste Producer under Waste Disposal Ordinance	7043692	Throughout the Contract	Registered on 13 April 2022
Registration as Chemical Waste Producer	5213-642-P1034-18	Throughout the Contract	Registered on 11 July 2022
Construction Noise Permit	GW-RN1012-23	22 December 2023	Permit granted on 22 September 2023
Effluent Discharge License under Water Pollution Control Ordinance	WT00042301-2022	31 October 2027	Permit granted on 18 October 2022 Variation of Licence (Permit granted on 7 February 2023)

2.5. Environmental Monitoring and Audit Progress

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

Table 2-4 Summary of the Monitoring Activities in this reporting period

Items	Times	Date
- Air Quality Monitoring during normal weekdays at each monitoring station	6 times	1, 7, 13, 19, 23 & 29 December 2023
- Construction Noise Monitoring during normal weekdays at each monitoring station	5 times	1, 7, 13, 19 & 29 December 2023
- Surface Water Quality Monitoring during normal weekdays at each monitoring station	1 time	19 December 2023
- Landfill Gas Monitoring during normal weekdays for Construction Works	24 times	1 to 2, 4 to 9, 11 to 16, 18 to 23, 27 to 30 December 2023
- Joint Environmental Site Inspection	4 times	4, 11, 18 & 27 December 2023
- General Site Inspection by EPD-RNG	1 time	11 December 2023

Air Quality

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

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

Groundwater

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

Surface Water Quality

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

Landfill Gas

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

Landscape and Visual

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

Cultural Heritage

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

Ecology

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

Environmental Site Inspection

4 weekly environmental site inspections were carried out during the reporting period. A joint environmental site inspection was carried out by the representatives of the Employer's Representative (ER), the Contractor, IEC and the ET on 18 December 2023. The Contractor has generally implemented part of the mitigation measures as recommended. One general site inspection was conducted by Environmental Protection Department-Regional Office (North) (EPD-RNG) during the reporting period.

3. Air Quality Monitoring

3.1 Construction Dust

3.1.1 Monitoring Requirement

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

3.1.2 Monitoring Parameters, Frequency and Location

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

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

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

Table 3-1 Locations of Dust Monitoring Stations

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

Remarks:

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

AM(D)1 Tung Lo Hang, AM(D)2 Heung Yuen Wai, AM(D)3 Wo Keng Shan Tsuen are the air monitoring stations for the construction phase EM&A programme as identified in the approved EM&A Manual for the Project. The access to Tung Lo Hang, Heung Yuen

Wai and Wo Keng Shan Tsuen were denied. A search for alternative air monitoring locations (AM1, AM2 & AM3) was carried out during the site visit.

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

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

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

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

3.1.3 Monitoring Equipment

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

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

Table 3-3 Dust Monitoring Equipment

Equipment	Model	Expiry Date	Monitoring Station
High Volume Sampler (HVS)	TE-5170X (S/N: 1105)	3 Jan 2024	AM1
	TE-5170X (S/N: 1106)		AM2
	TE-5170X (S/N: 1856)		AM3
Direct Reading Dust Meter	Sibata LD-5R (S/N: 0Z4545)	30 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: 4166)	19 Jun 2024	AM1 to AM3

Remarks:

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

3.1.4 Monitoring Methodology

1-hr TSP Monitoring

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

Measuring Procedures

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

Procedure of starting monitoring

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

Procedure of setting measurement timer

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

Calibration & Maintenance

3.1.4.3 The direct reading dust meters will be verified against calibrated high volume samples (HVSs) annually. A 2-day, three 3-hour measurement results per day from direct reading dust meter will be taken to compare with the sampling results from the HVS. The correlation between the direct reading dust meter and the HVS will then be concluded. By accounting for the correlation factor, the direct reading dust meter will be considered to achieve comparable results as that of the HVS.

3.1.4.4 All digital dust indicator will be calibrated with on-site HVS annually. Calibration certificate will be provided after calibration. The Calibration process shall eyewitness with the representative of ET & IEC.

Quality Audit

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

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

24-hr TSP Monitoring

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

Measuring Procedures

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

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

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

Calibration & Maintenance

3.1.4.10 The high volume motors and their accessories should be properly maintained, including routine motor brushes replacement and electrical wiring checking, to ensure that the equipment and a continuous power supply were in good working condition.

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

The detail procedure of calibration of HVS is listed below:

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

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

3.1.5 Monitoring Results

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

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

Month	Average 1-hr TSP Concentration, $\mu\text{g}/\text{m}^3$ (Range)		
	Dust Monitoring Station		
	AM1	AM2	AM3
Dec 2023	29 (26 – 34)	37 (23 – 59)	51 (40 – 67)
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, $\mu\text{g}/\text{m}^3$ (Range)		
	Dust Monitoring Station		
	AM1	AM2	AM3
Dec 2023	97 (71 – 108)	81 (65 – 119)	91 (70 – 122)
Action Level	>164	>152	>163
Limit Level	>260		

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

Table 3-6 Summary of Impact 1-hr & 24-hr TSP Exceedance during the reporting period

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

Remarks: * equal to non-project related

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

3.1.6 Wind Data Monitoring

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

3.1.7 Recommended Mitigation Measures

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

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

3.1.8 Event and Action Plan

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

Table 3-7 Event and Action Plan for dust impact

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

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

4 Noise Monitoring

4.1 Monitoring Requirement

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

4.2 Monitoring Locations, Parameters and Frequency

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

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

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

Table 4-1 Noise Monitoring Locations

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

Remarks:

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

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

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

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

Table 4-2 Noise Monitoring Parameters, Frequency and Duration

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

4.3 Monitoring Equipment

4.3.1 Integrating Sound Level Meters (SLMs) was used for noise impact monitoring. The SLM complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications shall be used for carrying out noise monitoring. The accuracy of the SLM was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements shall be accepted as valid only if the calibration level from prior to and after the noise measurement agrees to within 1.0dB.

4.3.2 A portable wind speed meter was used for measuring wind speeds in m/s.

4.3.3 **Table 4-3** summarises the equipment that have been used in the impact noise monitoring programme. The calibration certificates are shown in **Appendix D**.

Table 4-3 Noise Monitoring Equipment

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

4.4 Monitoring Methodology

4.4.1 The details of noise measurement procedures are described as follows:

- Free-field measurements were made at the monitoring locations.
- For free field, the Sound Level Meter was set at a height of 1.2 m above the ground. The battery condition was checked to ensure the proper functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
- Frequency weighting: A
- Time weighting: Fast
- Measurement time: 5 minutes (Leq (30-min) would be determined for daytime noise by calculating the logarithmic average of six Leq (5min) data.)
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid

and repeat of noise measurement would be required after recalibration or repair of the equipment.

- Noise measurement should be paused during periods of high intrusive noise if possible and observation shall be recorded when intrusive noise is not avoided.
- At the end of the monitoring period, the Leq, L10 and L90 shall be recorded. In addition, site conditions and noise sources should be recorded on a standard record sheet.
- All noise monitoring will be conducted with the wind speed not exceeding 5m/s and no gusts exceeding 10m/s.

Calibration & Maintenance

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

4.4.3 The microphone head of the sound level meter and calibrator should be cleaned with a soft cloth at quarterly intervals.

4.5 Monitoring Results

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

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
Dec 2023	61.9 (57.7 – 64.1)	53.5 (49.6 – 54.9)
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 G**.

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 F**.

4.6 Recommended Mitigation Measures

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

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

4.7 Event and Action Plan

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

Table 4-6 Event and action plan for construction noise monitoring

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

5 Water Quality Monitoring

5.1 Groundwater Monitoring

5.1.1 Monitoring Requirement

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

5.2 Surface Water Monitoring

5.2.1 Monitoring Requirement

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

5.2.2 Monitoring Locations, Parameters and Frequency

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

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

Table 5-1 Surface water quality monitoring locations

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

Table 5-2 Surface water quality monitoring Parameters, Frequency and Duration

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

5.2.3 Monitoring Equipment

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

Table 5-3 Surface Water Quality Monitoring Equipment

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

5.2.4 Summary of Surface Water Quality Monitoring Procedure

Operational/ Analytical Procedures

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

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

Laboratory Analytical Methods

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

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

Parameters	Detection Limit (in EM&A Manual)	Limit of Reporting	Method Reference
pH	0.1	0.1	APHA 4500 H+ B
Electrical conductivity	1 µS/cm	1 µS/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 µg/L	50 µg/L	USEPA 6010C
Mg	50 µg/L	50 µg/L	USEPA 6010C
Ca	50 µg/L	50 µg/L	USEPA 6010C
K	50 µg/L	50 µg/L	USEPA 6010C
Fe	50 µg/L	10 µg/L	USEPA 6010C
Ni	1 µg/L	1 µg/L	USEPA 6020A
Zn	10 µg/L	10 µg/L	USEPA 6020A
Mn	1 µg/L	1 µg/L	USEPA 6020A
Cu	1 µg/L	1 µg/L	USEPA 6020A
Pb	1 µg/L	1 µg/L	USEPA 6020A
Cd	0.2 µg/L	0.2 µg/L	USEPA 6020A
Coliform Count	1 cfu/ 100mL	1 cfu/ 100mL	DoE section 7.8, 7.9.4.1 & 3
Oil and Grease	5 mg/L	5 mg/L	APHA 5520 B

QA/ QC Requirements

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

Decontamination Procedures

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

Sampling Management and Supervision

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

Quality Control Measures for Sample Testing

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

- One method blank; and
- One sample duplicate.

5.2.5 Monitoring Results

5.2.5.1 Impact surface water quality monitoring was conducted at WM1 and WM2 on 19 December 2023. No adverse weather was observed during reporting period. The detailed monitoring schedule is shown in **Appendix C**.

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 E** and **Appendix F**.

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	7.6	>7.7	>7.8	7.5	>7.6	>7.7
DO in mg/L	7.6	<7.4	<4	5.6	<5	<4
Turbidity in NTU	5.8	>9.2	>9.5	60.2	>108.3	>108.9
Electrical Conductivity in μ S/cm	95	---	---	191	---	---
SS in mg/L	9.5	>9.7	>11.4	44.6	>94.5	>94.7
Alkalinity in mg/L	16	---	---	54	---	---
COD in mg/L	7			7		
BOD ₅ in mg/L	<2			<2		
TOC in mg/L	<1			2		
Ammonia-nitrogen in mg/L	0.03			0.26		
TKN in mg/L	0.2			0.5		
Nitrate in mg/L	0.03			0.15		
Sulphate in mg/L	3			22		
Sulphite in mg/L	<2			<2		
Phosphorus in mg/L	0.0			<0.01		
Chloride in mg/L	6			8		
Sodium in μ g/L	8380			7770		
Magnesium in μ g/L	500			1970		
Calcium in μ g/L	3290			23800		
Potassium in μ g/L	400			2480		
Iron in μ g/L	930			3080		
Nickel in μ g/L	1.0			2		
Zinc in μ g/L	<10			26		
Manganese in μ g/L	57			2540		
Copper in μ g/L	<1			3		
Lead in μ g/L	<1			4		
Cadmium in μ g/L	<0.2			<0.2		
Coliform Count in cfu/100mL	Not Detected			10		
Oil and Grease in mg/L	<5	<5				

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

Table 5-6 Summary of Impact Surface Water Quality Exceedance during the reporting period

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

Remarks: * equal to non-project related

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

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

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

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

5.2.8 Event and Action Plan

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

Table 5-7 Event and Action Plan for Water Quality

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

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

6 Waste Management

- 6.1.1** Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. Non-inert C&D materials were made up of general refuse, steels and paper/cardboard packaging materials. Steel materials generated from the Project were also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are summarised in **Appendix I**.
- 6.1.2** A total of 57,681 tonnes of C&D materials was reused at alternative disposal ground (NENT Landfill) during the reporting period. A total of 2.48 tonnes of Yard waste (collected to Y-Park) was generated during the reporting period. A total of 5296.17 tonnes of Imported fill was generated during the reporting period. A total of 34.26 tonnes of general refuse and A total of 375.34 tonnes of non-recyclable yard waste was generated during the reporting period. The general refuse generated from the Project were disposed of at the NENT Landfill.
- 6.1.3** The recommended waste management mitigation measures from EIA report are listed as followed:
- Implement a trip-ticket system to ensure that the movement of C&D materials are properly documented and verified in accordance with DEVB TC(W) No. 6/2010.
 - Concrete and masonry should be used as general fill and steel reinforcement bars can be used by scrap steel mills.
 - Proper areas should be designated for waste segregation and storage wherever site conditions permit.
 - Maximise the use of reusable steel formwork to reduce the amount of C&D material.
 - Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement.
 - On-site sorting and segregation facility of all type of wastes is considered as one of the best practice in waste management and hence, should be implemented in all projects generating construction waste.
 - The sorted public fill and C&D waste should be properly reused.
 - Excavated slope, stockpiled material and bund walls should be covered by tarpaulin until used in order to prevent wind-blown dust during dry weather, and to reduce muddy runoff during wet weather.

7 Landfill Gas Monitoring

7.1 Monitoring Requirement during Construction

Monitoring for Construction Works

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

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

7.2 Monitoring Locations

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

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

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

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

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

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

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

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

Table 7-1 Locations of LFG Monitoring during reporting period

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

7.3 Monitoring Equipment

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

Table 7-2 LFG Monitoring Equipment

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

Table 7-3 Landfill Gas Monitoring Detection Limits

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

7.4 Event and Action Plan (EAP)

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

Table 7-4 Action Plan for the monitoring during construction phase

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

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

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

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

7.5 Monitoring Results

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

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

Table 7-5 Summary of LFG Monitoring Results

LFG Monitoring Station	Monitoring Date	Monitoring Parameter(s)			
		CH ₄ in %	LEL in %/v	CO ₂ in %	O ₂ in %
		Average Monitoring Results			
Portion A +50 mpD to 70 mpD Platform	1 Dec 2023	0	0	0	20.2
	2 Dec 2023	0	0	0	20.1
	4 Dec 2023	0	0	0	20.1
	5 Dec 2023	0	0	0	20.1
	6 Dec 2023	0	0	0	20.2
	7 Dec 2023	0	0	0	20.2
	8 Dec 2023	0	0	0	20.1
	9 Dec 2023	0	0	0	20.2
	11 Dec 2023	0	0	0	20.1
	12 Dec 2023	0	0	0	20.2
	13 Dec 2023	0	0	0	20.1
	14 Dec 2023	0	0	0	20.2
	15 Dec 2023	0	0	0	20.1
	16 Dec 2023	0	0	0	20.2
	18 Dec 2023	0	0	0	20.0
	19 Dec 2023	0	0	0	20.1
	20 Dec 2023	0	0	0	20.2
	21 Dec 2023	0	0	0	20.1
	22 Dec 2023	0	0	0	20.2
	23 Dec 2023	0	0	0	20.1
27 Dec 2023	0	0	0	20.1	
28 Dec 2023	0	0	0	20.1	
29 Dec 2023	0	0	0	20.1	
30 Dec 2023	0	0	0	20.1	
Action Level		>10% LEL	---	>0.5%** CO ₂	<19%

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

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

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

Table 7-6 Summary of Landfill Gas Exceedance during the reporting period

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

Remarks: * equal to non-project related

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

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

7.6 Recommended Mitigation Measures

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

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

8 Landscape and Visual

8.1 Monitoring Requirement

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

8.2 Result and Observation

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

9 Cultural Heritage

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

10 Ecological Monitoring

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

Table 10-1 Milestone of the Ecological Monitoring

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

11 Site Inspection and Audit

11.1.1 Site Inspection and audits were carried out by ET on weekly basis to monitor the implementation of proper environmental management practices and mitigation measures in the Project Site.

11.1.2 Weekly ET environmental site inspections were conducted in the reporting period on 04, 11, 18 & 27 December 2023. A joint environmental site inspection was carried out by the representatives of the ER, the Contractor, IEC and the ET on 18 December 2023. The joint environmental site inspection records are shown in **Appendix J**. There was no noncompliance recorded during the site inspections.

11.1.3 Major findings and recommendations are summarized as follows:

04 December 2023

Observation(s):

- The general waste shall be removed and disposed in the enclosed bin at Portion D. The contractor was recommended to clean up the site regularly and provide enough enclosed bin on-site to keep the site clean and tidy.
- The muddy water which is caused from the watering at the Portion D was found. The deposited silt and grit are found under the construction materials at the Portion D. The contractor was reminded that the muddy water should be collected from the proper channel and final to the silt removal facility for treatment. The deposited silt and grit under the construction materials at the Portion D should be removed.
- The dust dispersion was observed in the site. The contractor was advised to regularly water the works area and provide enough sprayers to dampen the surface of construction materials and the site, especially during the work process, to minimize dust dispersion.

11 December 2023

Observation(s):

- The accumulated uprooting of trees at portion E4 was observed. The contractor was advised to regularly water the uprooted trees to prevent dust dispersion and arrange for regular disposal to avoid accumulation.

18 December 2023

Observation(s):

- Stockpiling of dusty material without covered by impervious sheet at Portion D was observed. The contractor was reminded that stockpiling of dusty material should be covered by impervious sheet at Portion D to prevent dust dispersion.
- Insufficient silt fence around the stockpile area at SBA was observed. The contractor was advised to provide and maintain sufficient silt fence around the stockpile area in each layer, ensuring that each layer effectively prevents sediment from entering the surface water drainage system.

Reminder(s):

- The contractor was recommended that the exposed slope surface at SBA should be covered by an impervious sheet in the short term and should be shotcrete or other measurements for long-term surface protection.

27 December 2023

Observation(s):

- Assess road was dry and fugitive dust was observed, especially at portion E4. The contractor was recommended to arrange watering and provide enough sprayers to minimize dust dispersion at all assess road.
- Exposed slope surface without covered by tarpaulin sheets at portion E4 was observed. The contractor was advised that the exposed slope surface at portion E4 should be covered by tarpaulin sheets or other measurement like shotcrete or hydroseeding for long term slope surface protection.
- Dusty materials without covered by impervious sheet at portion E4 was observed. The contractor was reminded that the dusty materials should be covered with impervious sheet to prevent dust suppression.

11.1.4 One general site inspection was conducted by Environmental Protection Department-Regional Office (North) (EPD-RNG) during reporting period.

12 Environmental Non-conformance

12.1 Summary of Monitoring Exceedance

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

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

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	
Level Exceedance		Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level
Parameters							
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)	
Level Exceedance		Action Level	Limit Level	Action Level	Limit Level
Parameters					
LA _{eq} (30mins)	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0

Remarks: * equal to non-project related

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

Table 12-3 Summary of Impact Surface Water Quality Exceedance during the reporting period

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

Remarks: * equal to non-project related

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

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

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

Remarks: * equal to non-project related

12.2 Summary of Environmental Non-compliance

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

12.3 Summary of Environmental Complaint

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

Table 12-5 Cumulative Statistics on Environmental Complaints

Reporting Period		Environmental Aspects				
		Air Quality	Noise	Water Quality	Waste	Ecology
Dec 2023	Complaint Date	-	-	-	-	-
	No. of Complaint	0	0	0	0	0
Reporting Period Total		0	0	0	0	0
Accumulate of project		1	0	5	0	0

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

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

12.4 Summary of Environmental Summons and Successful Prosecution

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

13 Implementation Status on Environmental Mitigation Measures

13.1 General

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

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 L**.

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

 - Construction of site buildings at Portion D

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

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

 - Site formation at Portion A & E3-1

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

 - Shotcreting (Permanent and Temporary)

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

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

14.2 Monitoring Schedule for the Next Month

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

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 Limit Levels of LFG was recorded during the reporting period.
- 15.1.6 In terms of cultural heritage, implementation of the mitigation measures such as permanent fencing to protect the boulder path and setting up warning notices during construction phase of the Project has been monitored through the regular site inspection/audit in the reporting period. All the mitigation measures are in order.
- 15.1.7 Four environmental site inspections were carried out in the reporting month. Recommendations on mitigation measures for Permit/ Licenses were given to the Contractor for remediating the deficiencies identified during the site inspections.
- 15.1.8 No complaint was recorded during the reporting period.
- 15.1.9 No non-compliance event was recorded during the reporting period.
- 15.1.10 No notification of summons and prosecution was received during the reporting period.
- 15.1.11 The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Figure 1 Location of the Project Site

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

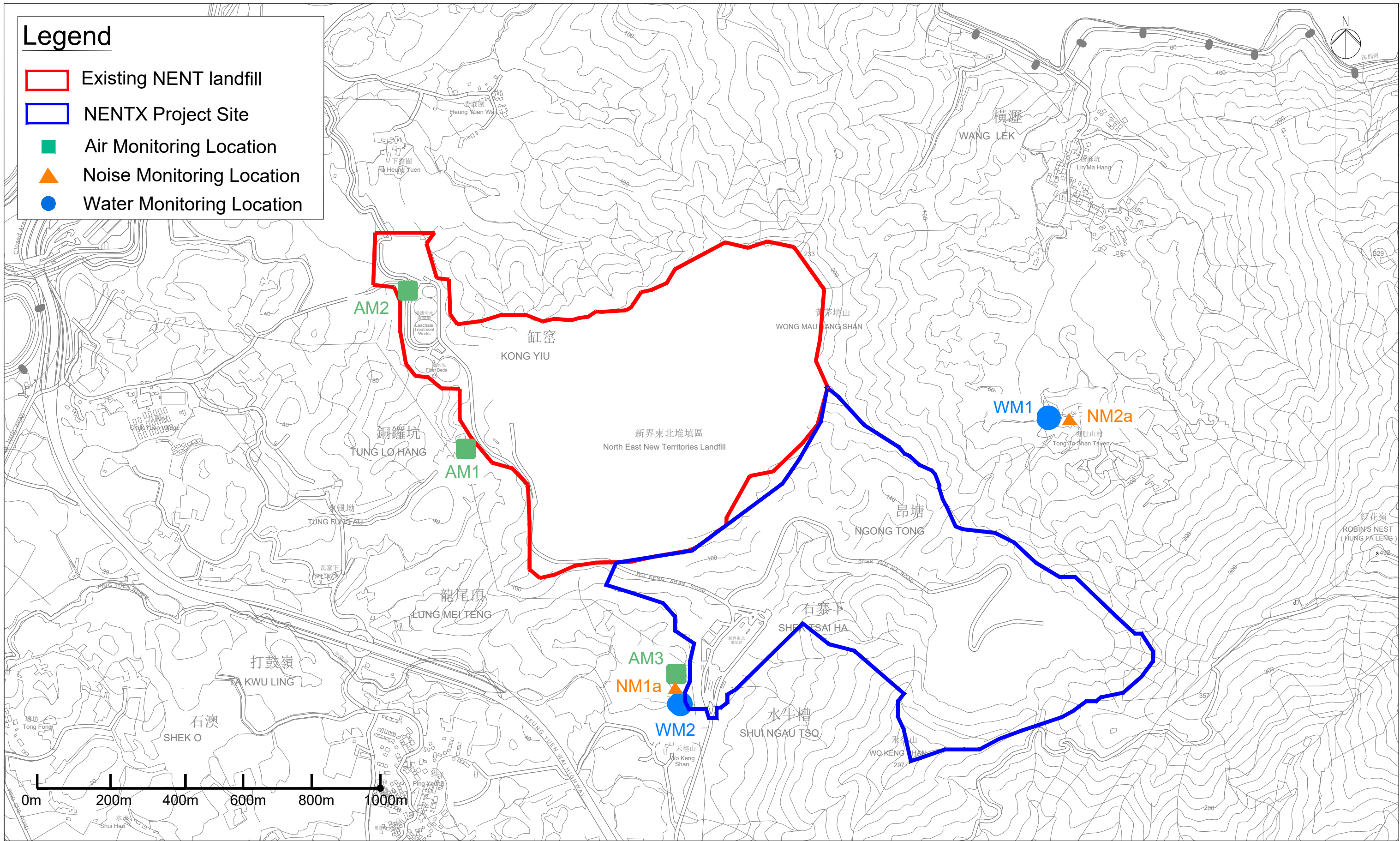


Figure 3 Landfill Gas Monitoring Locations

Gas Monitoring Point ●

Monitoring Frequency: 2 times per day

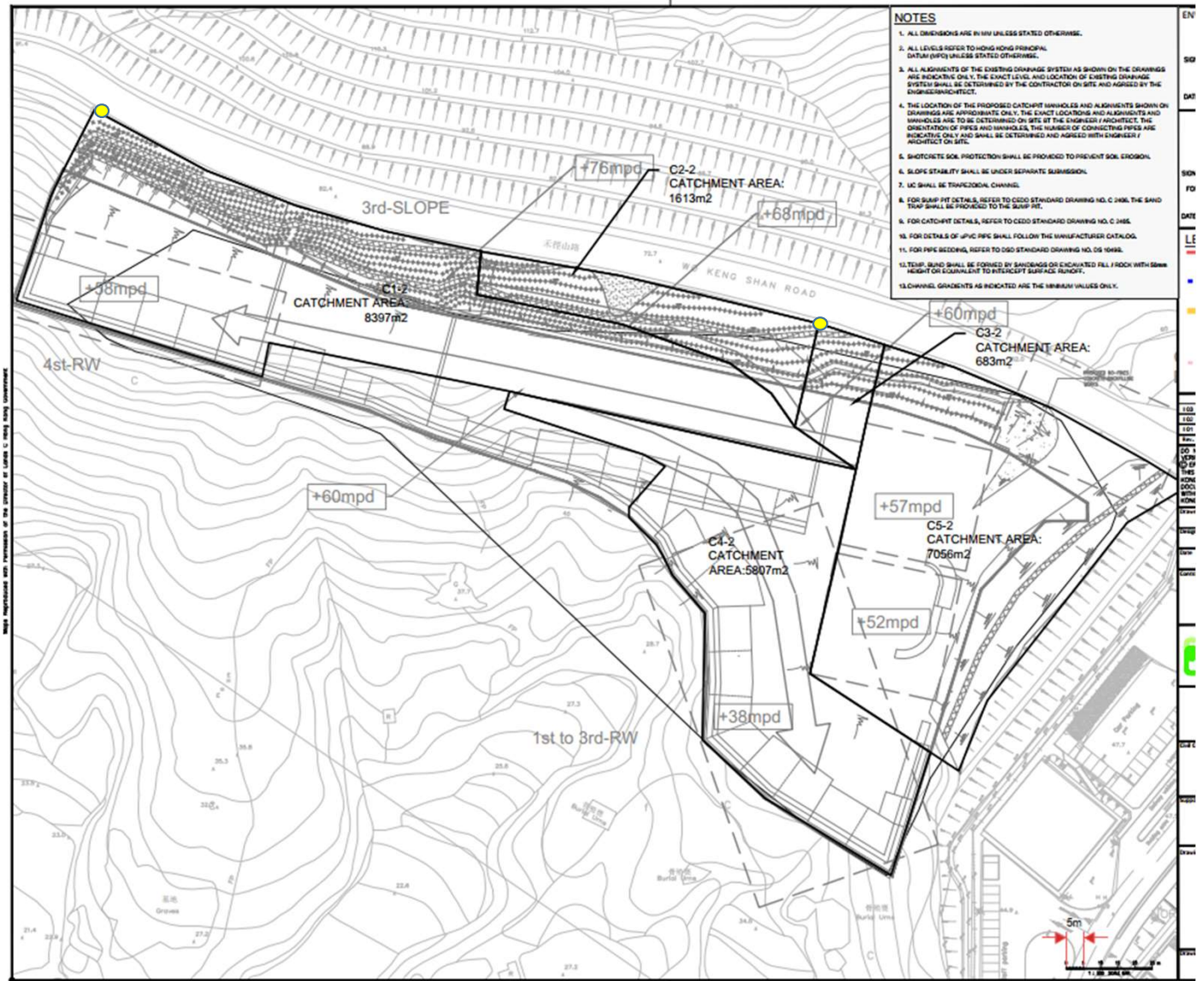
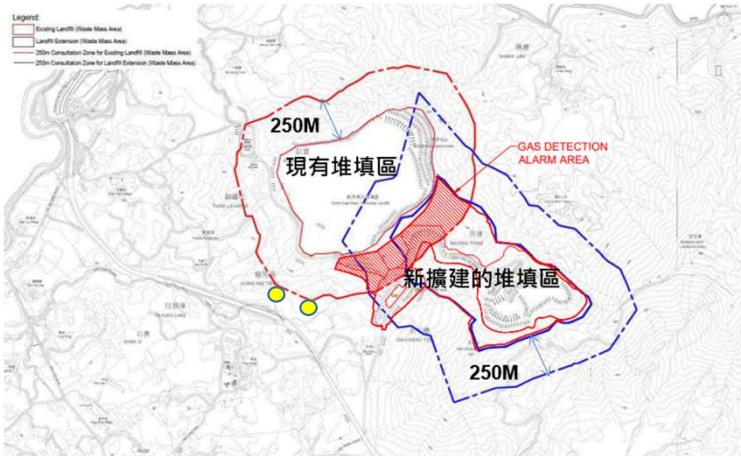


Figure 3 Landfill Gas Monitoring Locations

Appendix A Construction Programme

Activity ID	Activity Name	At Completion Duration	Actual Start	Actual Finish	Early Start	Early Finish	Late Start	Late Finish	Predecessors	Successors	Total Float	2022				2023				2024				2025				2026								
												Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4					
NENTX_Updated Baseline Programme (Rev.4)																																				
DESIGN DEVELOPMENT																																				
Portion A - Site Formation													[Gantt bar: 25-Jan-22 A to 16-Feb-24]																							
Portion A & D Architectural Design													[Gantt bar: 28-Nov-22 A to 03-Aug-23]																							
Portion A - Leachate Treatment Works & LFG Treatment Plant													[Gantt bar: 28-Feb-22 A to 16-Dec-23]																							
Portion A - Process Building													[Gantt bar: 30-Jun-22 A to 09-Feb-24]																							
Portion D Site Formation													[Gantt bar: 10-Jan-23 A to 15-May-23]																							
Portion A and D Preliminary Utilities Arrangement													[Gantt bar: 21-Sep-22 A to 28-Jul-23]																							
Site services detailed design for Portion A and D													[Gantt bar: 09-Aug-22 A to 28-Jan-24]																							
Permanent Drainage - Portion A, C & D													[Gantt bar: 19-Jan-23 A to 30-May-23]																							
Sewerage Management Plan - Portion A, C & D													[Gantt bar: 26-Oct-22 A to 01-Dec-23]																							
Pavement Road and Traffic Design for Portion A & D													[Gantt bar: 30-Jun-22 A to 19-Oct-23]																							
Accommodation Buildings (Portion D)													[Gantt bar: 13-Jun-22 A to 16-Feb-24]																							
Existing Structures (Portion C)													[Gantt bar: 10-Oct-22 A to 16-Feb-24]																							
Landfill Area													[Gantt bar: 04-Apr-22 A to 23-Aug-23]																							
FS Submission and FSD Consent																																				
Preliminary FS Submission													[Gantt bar: 07-Jul-23 to 11-Oct-24]																							
Process Building and Fire Services Building Detailed Design FS Submission													[Gantt bar: 15-Mar-24 to 07-Feb-25]																							
TECHNICAL SUBMISSION																																				
Project Control Plan and Report													[Gantt bar: 22-Feb-22 A to 16-Aug-22 A]																							
PROCUREMENT / FABRICATION / DELIVERY																																				
General Material													[Gantt bar: 23-Jun-23 to 03-Dec-25]																							
LIFT													[Gantt bar: 31-Jul-23 to 09-May-24]																							
LTW - GFS and GRP Tanks													[Gantt bar: 07-Sep-23 to 06-Apr-25]																							
LTW - Lamella Settlers													[Gantt bar: 10-Mar-24 to 17-Oct-25]																							
LTW - Sludge Thickening													[Gantt bar: 16-Nov-23 to 27-Jan-25]																							
LTW - Ammonia Stripper													[Gantt bar: 04-Sep-23 to 20-Jun-25]																							
Process Building(Electrical equipments)													[Gantt bar: 28-Aug-23 to 25-Nov-24]																							
LFG Plant													[Gantt bar: 01-May-23 to 15-Sep-25]																							
EPD REQUIREMENT - GI WORKS																																				
PORTION D													[Gantt bar: 07-Jun-22 A to 31-Jan-26]																							
PORTION A													[Gantt bar: 31-Aug-22 A to 11-Oct-22 A]																							
PORTION E3-1													[Gantt bar: 17-Oct-22 A to 30-Nov-22 A]																							
PORTION E4													[Gantt bar: 17-Oct-22 A to 17-Jan-23 A]																							
PORTION E3-1-A													[Gantt bar: 17-Oct-22 A to 17-Jan-23 A]																							
PORTION E1													[Gantt bar: 17-Oct-22 A to 17-Jan-23 A]																							
ENVIRONMENTAL MONITORING													[Gantt bar: 28-Mar-23 to 31-Jan-26]																							
CONSTRUCTION - INITIAL WORKS PHASE 1																																				
PORTION A													[Gantt bar: 28-May-22 A to 03-Jan-26]																							
SITEWIDE Underground UTILITIES (Portion A to Portion D)													[Gantt bar: 14-Dec-23 to 08-Feb-25]																							
Waste Reception Area (PORTION C) Construct by Others													[Gantt bar: 02-May-24 to 03-Jan-26]																							
PORTION D													[Gantt bar: 14-Mar-22 A to 08-Feb-25]																							
PORTION D - Underground Drainage / UG Utilities and Pipe Laying Works													[Gantt bar: 07-Jun-23 to 01-Mar-24]																							
PORTION D - EVA Road Road Pavement Works													[Gantt bar: 16-Apr-24 to 19-Mar-25]																							
Landfill Area (Portion E3-1, E4, E1, B1-1 & B2)													[Gantt bar: 24-Feb-22 A to 03-Jan-26]																							
Landscape Works (Landfill)													[Gantt bar: 24-Sep-24 to 03-Jan-26]																							
FS INSPECTION																																				
Portion A - Readiness for FS Inspection (Process Building)													[Gantt bar: 07-Feb-25 to 06-Sep-25]																							
Portion D : Readiness for FS inspection													[Gantt bar: 11-Oct-24 to 08-Feb-25]																							
2nd Inspection													[Gantt bar: 21-Oct-24 to 06-Sep-25]																							
FS Inspection Certificate													[Gantt bar: 08-Feb-25 to 04-Jan-26]																							
STATUTORY SUBMISSION																																				
Obtain Licences & Permits for Construction													[Gantt bar: 16-Feb-22 A to 04-Jan-26]																							
Obtain Licences & Permits for Operation													[Gantt bar: 04-Sep-22 A to 01-Feb-26]																							



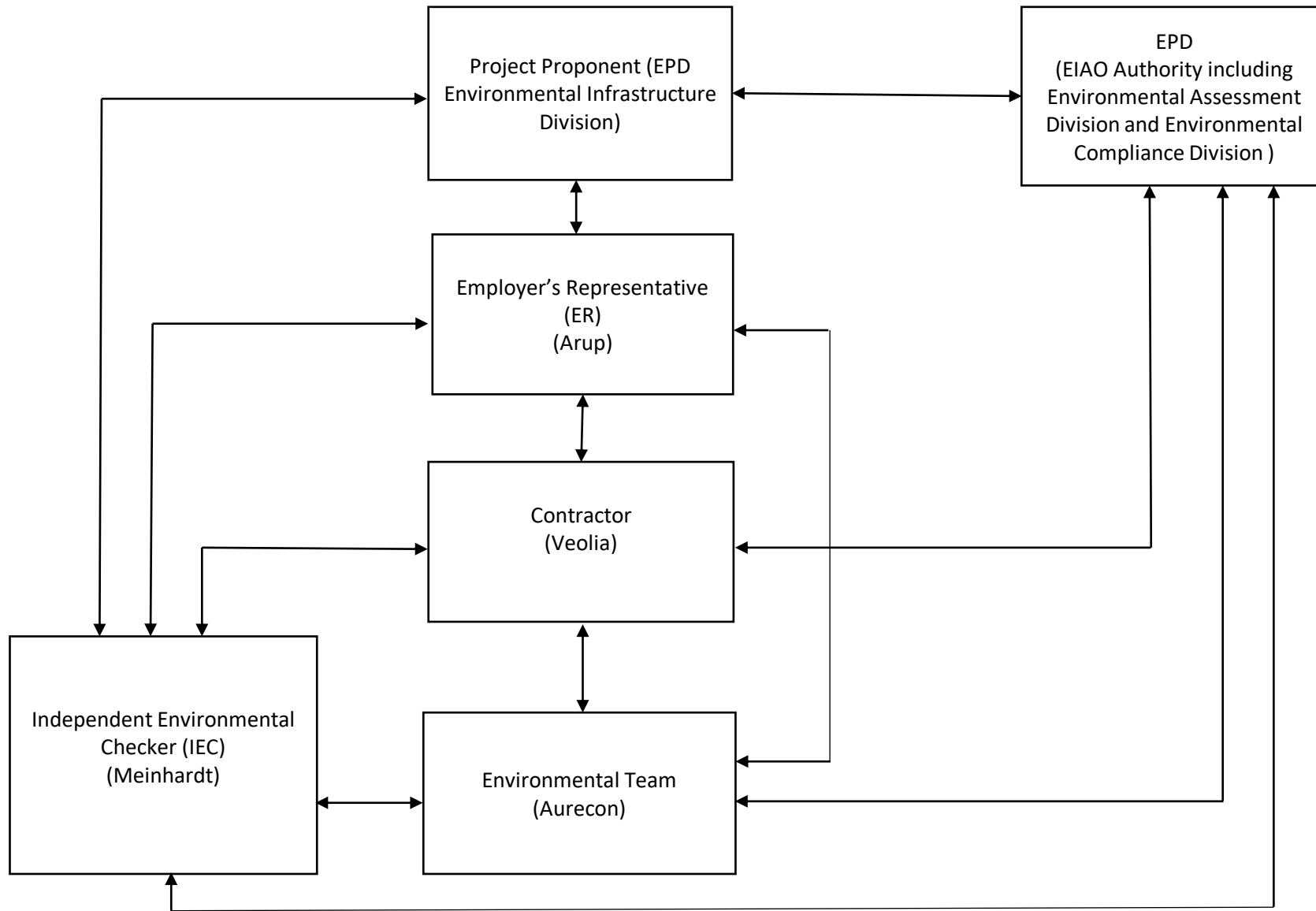
- ▬ Remaining Level of Effort
- ▬ Remaining Work
- ▬ Critical Remaining Work
- ◆ Milestone
- ▬ Summary

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



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

Appendix B Project Organization Chart & Management Structure



Notes:

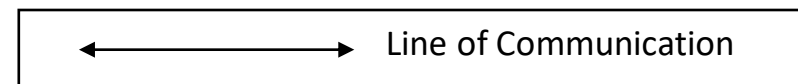
EPD - Environmental Protection Department

Arup – Ove Arup & Partners Limited

Veolia - Veolia Environmental Services Hong Kong Limited

Meinhardt - Meinhardt Infrastructure And Environment Limited

Aurecon - Aurecon Hong Kong Limited



Appendix C Monitoring Schedule for Reporting Month & Next Month

Impact Monitoring Schedule for NENT Landfill Extension (December 2023) (version 3.0)

12-2023						
Sun	Mon	Tue	Wed	Thur	Fri	Sat
					1 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	2
3	4	5	6	7 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	8	9
10	11	12	13 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	14	15	16
17	18	19 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a Surface water quality monitoring at WM1 and WM2	20	21	22	23 Air quality monitoring at AM1, AM2 and AM3
24 / 31	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).
 5. Please arrange a Veolia staff to accompany our staff(s) to each locations for every monitoring.

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

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

Remark:

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

Appendix D Calibration Certificates

Air Quality

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

Information of Calibrated Equipment

Verification Test Date:	1-Dec-23	to	30-Nov-24	Next Verification Test Date:	30-Nov-24
Unit-under-Test- Model No.:	Sibata LD-5R				
Unit-under-Test Serial No.:	024545				
Our Report Reference No.:	RPT-23-HVS-0023				
Calibration Location:	AM2, location near the Leachate Treatment Works within the NENTX Landfill				

Standard Equipment Information

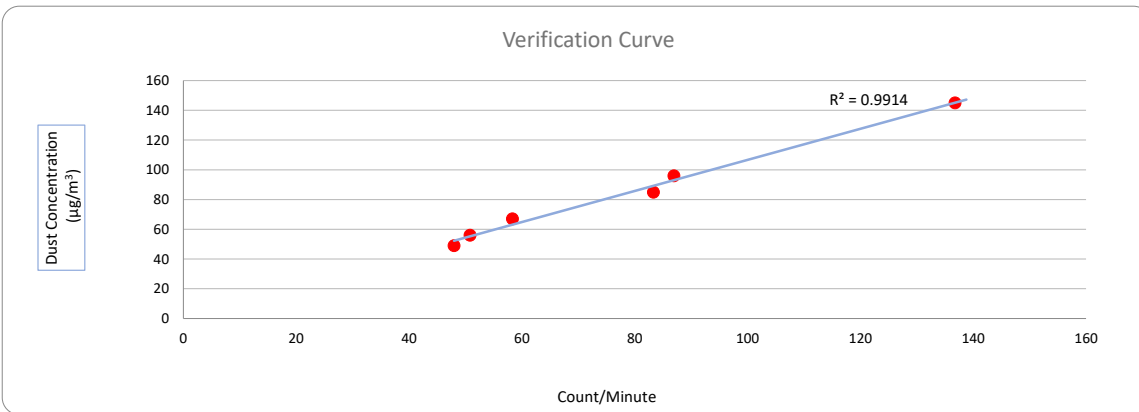
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5028A
Equipment serial no.:	1106	3702
Last Calibration Date:	04-Nov-23	31-Mar-23
Next Calibration Date:	04-Jan-24	30-Mar-24


Equipment Verification Result

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


Linear Regression of y on x

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



Operated By: Andy Li 
Project Technician, Environmental

Date: 02-12-2023

Checked By: Tandy Tse 
Senior Consultant, Environmental

Date: 02-12-2023

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

Information of Calibrated Equipment

Verification Test Date:	1-Dec-23	to	30-Nov-24	Next Verification Test Date:	30-Nov-24
Unit-under-Test- Model No.:	Sibata LD-5R				
Unit-under-Test Serial No.:	882106				
Our Report Reference No.:	RPT-23-HVS-0021				
Calibration Location:	AM2, location near the Leachate Treatment Works within the NENTX Landfill				

Standard Equipment Information

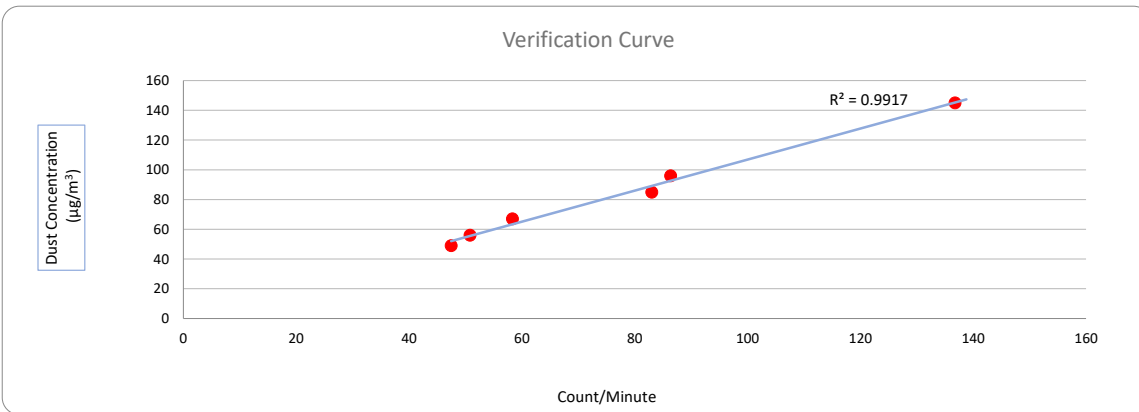
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5028A
Equipment serial no.:	1106	3702
Last Calibration Date:	04-Nov-23	31-Mar-23
Next Calibration Date:	04-Jan-24	30-Mar-24


Equipment Verification Result

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


Linear Regression of y on x

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



Operated By: Andy Li 
Project Technician, Environmental

Date: 02-12-2023

Checked By: Tandy Tse 
Senior Consultant, Environmental

Date: 02-12-2023

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

Information of Calibrated Equipment

Verification Test Date:	1-Dec-23	to	30-Nov-24	Next Verification Test Date:	30-Nov-24
Unit-under-Test- Model No.:	Sibata LD-5R				
Unit-under-Test Serial No.:	942532				
Our Report Reference No.:	RPT-23-HVS-0022				
Calibration Location:	AM2, location near the Leachate Treatment Works within the NENTX Landfill				

Standard Equipment Information

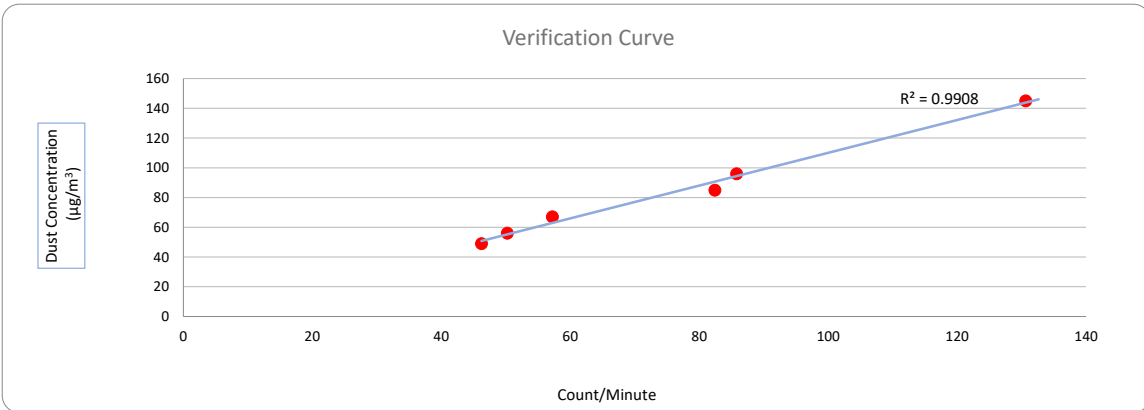
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5028A
Equipment serial no.:	1106	3702
Last Calibration Date:	04-Nov-23	31-Mar-23
Next Calibration Date:	04-Jan-24	30-Mar-24

Equipment Verification Result

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

Linear Regression of y on x

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



Operated By: Andy Li
Project Technician, Environmental

Date: 02-12-2023

Checked By: Tandy Tse
Senior Consultant, Environmental

Date: 02-12-2023

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	Representative ForTung Lo Hang	Site ID:	AM1	Date:	04-Nov-2023
Serial No.:	1105	Model:	TE-5170X	Operator:	Andy Li

Ambient Condition

Actual Pressure during Calibration (P _a) (mm Hg):	1013.9	Actual Temperature during Calibration (T _a) (deg K):	299.0
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Calibration Orifice

Model:	TE-5025A	Slope (m _c):	2.10188
Serial No.:	4166	Intercept (b _c):	-0.35800
Calibration Due Date:	19-Jun-24	Corr. Coeff:	0.99998

Calibration Data

Plate or Test #	ΔH ₂ O (in)	Qa, X-Axis (m ³ /min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	13.40	2.179	57.0	65.73
13	9.60	1.870	50.0	57.65
10	7.00	1.622	46.0	53.04
7	4.00	1.268	40.0	46.12
5	2.00	0.946	34.0	39.21

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

m = 21.0403 b = 19.1736 Corr. Coeff = 0.9983

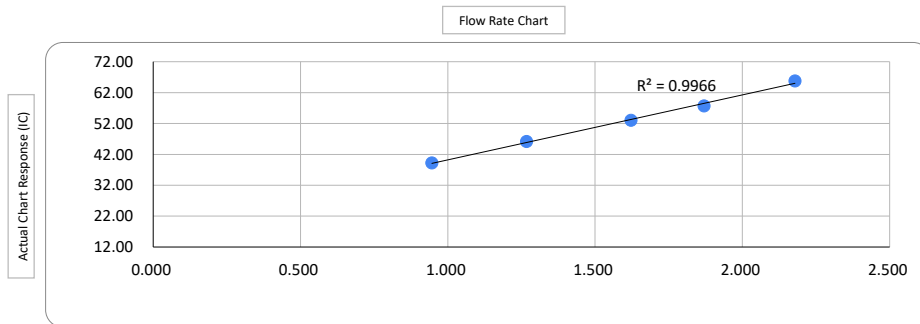
Calculations

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

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

Q_a = 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)



Standard Flow Rate (m³/min)

Checked by: Tandy Tse

 Senior Consultant, Environmental

Date: 04-Nov-2023

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	Representative For Heung Yuen Wai	Site ID:	AM2	Date:	04-Nov-2023
Serial No.:	1106	Model:	TE-5170X	Operator:	Andy Li

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	1013.9	Actual Temperature during Calibration (T_a) (deg K):	299.0
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Calibration Orifice

Model:	TE-5025A	Slope (m_c):	2.10188
Serial No.:	4166	Intercept (b_c):	-0.35800
Calibration Due Date:	19-Jun-24	Corr. Coeff:	0.99998

Calibration Data

Plate or Test #	ΔH_2O (in)	Qa, X-Axis (m ³ /min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	12.00	2.071	55.0	63.42
13	9.40	1.852	49.0	56.50
10	6.40	1.558	43.0	49.58
7	4.40	1.321	40.0	46.12
5	2.40	1.020	33.0	38.05

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

$m = \underline{\hspace{2cm} 23.1977 \hspace{2cm}}$

 $b = \underline{\hspace{2cm} 14.4432 \hspace{2cm}}$

 Corr. Coeff = $\underline{\hspace{2cm} 0.9950 \hspace{2cm}}$

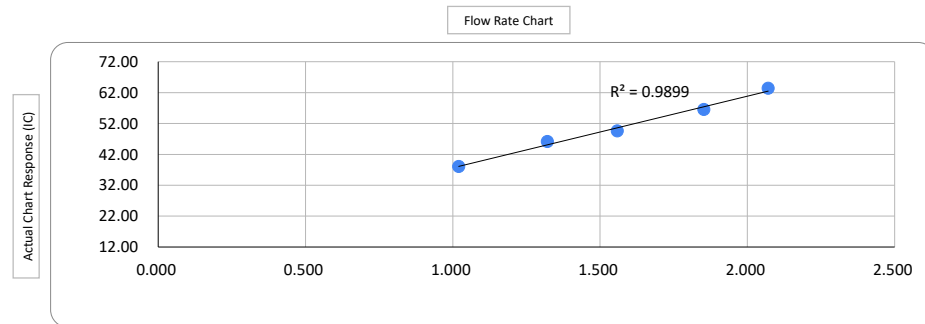
Calculations

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

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

Q_a = 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)



Standard Flow Rate (m³/min)

Checked by: Tandy Tse
 Senior Consultant, Environmental

Date: 04-Nov-2023

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	Representative For Wo Keng Shan Tsuen	Site ID:	AM3	Date:	04-Nov-2023
Serial No.:	1856	Model:	TE-5170X	Operator:	Andy Li

Ambient Condition

Actual Pressure during Calibration (P _a) (mm Hg):	1013.9	Actual Temperature during Calibration (T _a) (deg K):	302.3
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Calibration Orifice

Model:	TE-5025A	Slope (m _c):	2.10188
Serial No.:	4166	Intercept (b _c):	-0.35800
Calibration Due Date:	19-Jun-24	Corr. Coeff:	0.99998

Calibration Data

Plate or Test #	ΔH ₂ O (in)	Q _a , X-Axis (m ³ /min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	12.40	2.092	57.0	65.37
13	8.40	1.752	48.0	55.05
10	6.40	1.551	44.0	50.46
7	4.20	1.288	40.0	45.87
5	2.40	1.016	34.0	38.99

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

m = 23.8033 b = 14.4997 Corr. Coeff = 0.9949

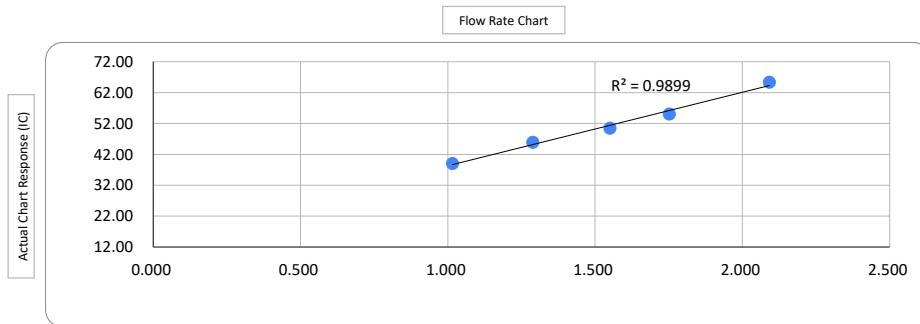
Calculations

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

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

Q_a = 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)



Standard Flow Rate (m³/min)

Checked by: Tandy Tse Senior Consultant, Environmental

Date: 04-Nov-2023

**RECALIBRATION
DUE DATE:
June 19, 2024**

Certificate of Calibration

Calibration Certification Information			
Cal. Date: June 19, 2023	Rootsmeter S/N: 438320	Ta: 294	°K
Operator: Jim Tisch		Pa: 754.9	mm Hg
Calibration Model #: TE-5025A	Calibrator S/N: 4166		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4500	3.2	2.00
2	3	4	1	1.0260	6.4	4.00
3	5	6	1	0.9170	8.0	5.00
4	7	8	1	0.8770	8.8	5.50
5	9	10	1	0.7240	12.8	8.00

Data Tabulation					
Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)}$ (y-axis)
1.0025	0.6914	1.4190	0.9958	0.6867	0.8826
0.9983	0.9730	2.0068	0.9915	0.9664	1.2481
0.9961	1.0863	2.2436	0.9894	1.0790	1.3955
0.9951	1.1346	2.3532	0.9883	1.1270	1.4636
0.9897	1.3670	2.8380	0.9830	1.3578	1.7651
QSTD	m=	2.10188	QA	m=	1.31616
	b=	-0.03580		b=	-0.02227
	r=	0.99998		r=	0.99998

Calculations			
Vstd=	$\Delta Vol \left(\frac{Pa - \Delta P}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)$	Va=	$\Delta Vol \left(\frac{Pa - \Delta P}{Pa} \right)$
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=	$1/m \left(\left(\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)} \right) - b \right)$

Standard Conditions	
Tstd:	298.15 °K
Pstd:	760 mm Hg
Key	
ΔH:	calibrator manometer reading (in H2O)
ΔP:	rootsmeter manometer reading (mm Hg)
Ta:	actual absolute temperature (°K)
Pa:	actual barometric pressure (mm Hg)
b:	intercept
m:	slope

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

Noise

Certificate of Calibration

for

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

Submitted by:

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

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

- Within (31.5Hz – 4kHz)
 Outside

the allowable tolerance.


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

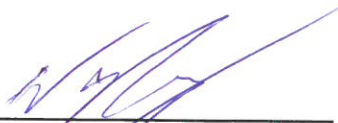
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 30 March 2023

Date of calibration: 04 April 2023

Date of NEXT calibration: 03 April 2024

Calibrated by: 
Calibration Technician

Certified by: 
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: 04 April 2023

Certificate No.: APJ22-164-CC002



Page 1 of 4



1. Calibration Precaution:

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

2. Calibration Conditions:

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

3. Calibration Equipment:

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

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

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

Linearity

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

Time Weighting

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

Certificate No.: APJ22-164-CC002



Page 2 of 4

Frequency Response

Linear Response

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

A-weighting

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

C-weighting

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



Certificate No.: APJ22-164-CC002

Page 3 of 4

5. Calibration Results Applied

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

Uncertainties of Applied Value:

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

The uncertainties are evaluated for a 95% confidence level.

Note:

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

Certificate of Calibration

for

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

Submitted by:

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

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

- Within**
- Outside**

the allowable tolerance.

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

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

Date of receipt: 27 July 2023

Date of calibration: 3 August 2023

Date of NEXT calibration: 2 August 2024

Calibrated by: _____
Calibration Technician

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

Date of issue: 3 August 2023

Certificate No.: APJ23-049-CC003



1. Calibration Precautions:

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

2. Calibration Specifications:

Calibration check

3. Calibration Conditions:

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

4. Calibration Equipment:

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

5. Calibration Results

5.1 Sound Pressure Level

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

Note:

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



AI

Calibration Certificate

Certificate No. **300737**

Page 1 of 2 Pages

Customer : Acuity Sustainability Consulting Limited

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

Order No. : Q30320

Date of receipt : 2-Feb-23

Item Tested

Description : Hot Wire Anemometer

Manufacturer : RS PRO

I.D. : ASCL-EQ-111

Model : RS-90

Serial No. : 210722208

Test Conditions

Date of Test : 13-Feb-23

Supply Voltage : --

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

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

Test Specifications

Calibration check.

Ref. Document/Procedure : T03, Z04.

Test Results

All results were within the manufacturer's specification.

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

Main Test equipment used:

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

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

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

Calibrated by : 
James Yau

Approved by : 
Steve Kwan

This Certificate is issued by:
Hong Kong Calibration Ltd.

Date: 13-Feb-23

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



Calibration Certificate

Certificate No. 300737

Page 2 of 2 Pages

Results :

1. Velocity

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

2. Temperature

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

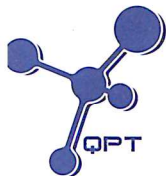
Remark : 1. UUT: Unit-Under-Test

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

3. Atmospheric Pressure: 1 002 hPa

----- END -----

Water Quality



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

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

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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

PART A - CUSTOMER INFORMATION

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

PART B - SAMPLE INFORMATION

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

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

PART D - CALIBRATION RESULT

(1) pH value

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

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

(2) Temperature

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

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

(3) Salinity

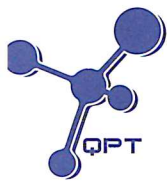
Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	10.00	0.00	Satisfactory
20	21.07	5.35	Satisfactory
30	32.30	7.67	Satisfactory

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

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED
SIGNATORY:


 LEE Chun-ning
 Assistant Manager



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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

(4) Dissolved oxygen

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

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

(5) Turbidity

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

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

Remark(s)

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

--- END OF REPORT ---



Calibration Certificate

Certificate No. **300745**

Page 1 of 2 Pages

Customer : Acuity Sustainability Consulting Limited

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

Order No. : Q30320

Date of receipt : 2-Feb-23

Item Tested

Description : Global Flow Probe

Manufacturer : Global Water

Model : FP111

I.D. : --

Serial No. : 22K100858

Test Conditions

Date of Test : 27-Mar-23

Ambient Temperature : 20°C

Supply Voltage : --

Relative Humidity : 75%

Test Specifications

Calibration check.

Ref. Document/Procedure : V12

Test Results

All results were within the manufacturer's specification.

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

Main Test equipment used:

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

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

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

Calibrated by : 
Kin Wong

Approved by : 
Alan Chu

Date: 27-Mar-23



Calibration Certificate

Certificate No. 300745

Page 2 of 2 Pages

Results :

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

Remarks : 1. UUT : Unit-Under-Test

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

----- END -----

Landfill Gas

CERTIFICATION OF CALIBRATION



Date Of Calibration: 31-Aug-2023

Certificate Number: G505207_1/33483

Issued by: QED Environmental Systems Ltd.

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

Description: Gas Analyser

Model: GEM5000

Serial Number: G505207

UKAS Accredited results:

Results after adjustment :

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

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

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

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

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

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

Barometric Pressure : 0998 mbar ± 4 mbar

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

Instrument has passed calibration as the measurement result is within the specification limit. The specification limit takes into account the measurement uncertainty.
The results relate only to the item calibrated

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

Calibration Instance:117 IGC Instance:117

Page 1 of 2 | LP015GIUKAS-2.5

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

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

Registered in England and Wales 1898734

CERTIFICATION OF CALIBRATION



Date Of Calibration: 31-Aug-2023

Certificate Number: G505207_1/33483

Issued by: QED Environmental Systems Ltd.

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

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

Non-UKAS accredited results after adjustment:

Barometer (mbar)	
Reference	Instrument Reading
998	999

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

Date of Issue : 07-Sep-2023

Approved by Signatory

Fani Zolota

Laboratory Inspection

End of Certificate

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

Calibration Instance:117 IGC Instance:117

Page 2 of 2 | LP015GIUKAS-2.5

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

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

Registered in England and Wales 1898734

Appendix E Monitoring Results

Air Quality

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

Date	Equipment Brand & Model	Equipment Serial No.	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
1/12/2023	Sibata LD-5R	882106	0.00107	Fine	8:12	9:12	10:12	32	33	34	33	285	500
7/12/2023	Sibata LD-5R	882106	0.00107	Fine	8:20	9:20	10:20	26	30	26	27		
13/12/2023	Sibata LD-5R	882106	0.00107	Fine	13:06	14:06	15:06	26	31	29	29		
19/12/2023	Sibata LD-5R	0Z4545	0.00107	Fine	13:00	14:00	15:00	29	31	28	29		
23/12/2023	Sibata LD-5R	882106	0.00107	Fine	8:10	9:10	10:10	26	28	27	27		
29/12/2023	Sibata LD-5R	882106	0.00107	Fine	8:16	9:16	10:16	29	31	28	29		
Average								29					
Max.								34					
Min.								26					

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

Date	Equipment Brand & Model	Equipment Serial No.	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
1/12/2023	Sibata LD-5R	0Z4545	0.00114	Fine	8:10	9:10	10:10	23	29	28	27	279	500
7/12/2023	Sibata LD-5R	0Z4545	0.00114	Fine	8:45	9:45	10:45	23	31	23	26		
13/12/2023	Sibata LD-5R	0Z4545	0.00114	Fine	13:30	14:30	15:30	36	39	41	39		
19/12/2023	Sibata LD-5R	942632	0.00114	Fine	13:10	14:10	15:10	32	26	59	39		
23/12/2023	Sibata LD-5R	0Z4545	0.00114	Fine	8:20	9:20	10:20	41	51	48	47		
29/12/2023	Sibata LD-5R	0Z4545	0.00114	Fine	8:29	9:29	10:29	45	49	49	48		
Average								37					
Max.								59					
Min.								23					

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

Date	Equipment Brand & Model	Equipment Serial No.	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level
								$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
1/12/2023	Sibata LD-5R	942532	0.00108	Fine	8:56	9:56	10:56	41	44	41	42	285	500
7/12/2023	Sibata LD-5R	942532	0.00108	Fine	8:30	9:30	10:30	40	41	43	41		
13/12/2023	Sibata LD-5R	942532	0.00108	Fine	13:19	14:19	15:19	41	45	46	44		
19/12/2023	Sibata LD-5R	882106	0.00108	Fine	13:25	14:25	15:25	54	56	51	54		
23/12/2023	Sibata LD-5R	942532	0.00108	Fine	8:40	9:40	10:40	61	67	63	64		
29/12/2023	Sibata LD-5R	942532	0.00108	Fine	8:40	9:40	10:40	59	60	58	59		
Average								51					
Max.								67					
Min.								40					

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

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time (minutes)	Averaged Flow Rate	Averaged Flow Rate	Total Flow Volume (m ³)	Filter Weight (g)		Particulate weight (g)	Concentration (µg/m ³)	Action Level (µg/m ³)	Limit Level (µg/m ³)
		(°C)	(hPa)	Initial	Final		(cfm)	(m ³ /min)		Initial	Final				
1/12/2023	Fine	22.4	1021.6	2220.54	2244.54	1440	37	0.87	1252	2.6571	2.7868	0.1297	104	164	260
7/12/2023	Fine	23.0	1017.1	2248.16	2272.16	1440	39	0.93	1342	2.6809	2.8133	0.1324	99		
13/12/2023	Fine	21.9	1013.9	2274.59	2298.59	1440	43	1.12	1614	2.7086	2.8647	0.1561	97		
19/12/2023	Fine	15.7	1022.3	2302.23	2326.23	1440	39	0.99	1424	2.6961	2.7976	0.1015	71		
23/12/2023	Fine	14.9	1029.3	2330.47	2354.47	1440	44	1.23	1765	2.6607	2.8512	0.1905	108		
29/12/2023	Fine	22.1	1019.7	2358.14	2382.14	1440	40	1.01	1456	2.7038	2.8518	0.1480	102		
												Average	97		
												Min	71		
												Max	108		

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

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time (minutes)	Averaged Flow Rate	Flow Rate	Total Flow Volume (m ³)	Filter Weight (g)		Particulate weight (g)	Concentration (µg/m ³)	Action Level (µg/m ³)	Limit Level (µg/m ³)
		(°C)	(hPa)	Initial	Final		(cfm)	(m ³ /min)		Initial	Final				
1/12/2023	Fine	22.4	1021.6	1762.33	1786.33	1440	39	1.06	1523	2.6588	2.7662	0.1074	71	152	260
7/12/2023	Fine	23.0	1017.1	1790.54	1814.54	1440	39	1.07	1542	2.6711	2.7754	0.1043	68		
13/12/2023	Fine	21.9	1013.9	1818.06	1842.06	1440	39	1.07	1539	2.7082	2.8094	0.1012	66		
19/12/2023	Fine	15.7	1022.3	1846.27	1870.27	1440	39	1.10	1585	2.7011	2.8040	0.1029	65		
23/12/2023	Fine	14.9	1029.3	1874.80	1898.80	1440	38	1.05	1509	2.6907	2.8709	0.1802	119		
29/12/2023	Fine	22.1	1019.7	1902.04	1926.04	1440	40	1.10	1579	2.6881	2.8389	0.1508	95		
												Average	81		
												Min	65		
												Max	119		

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

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time (minutes)	Averaged Flow Rate	Flow Rate	Total Flow Volume (m ³)	Filter Weight (g)		Particulate weight (g)	Concentration (µg/m ³)	Action Level (µg/m ³)	Limit Level (µg/m ³)
		(°C)	(hPa)	Initial	Final		(cfm)	(m ³ /min)		Initial	Final				
1/12/2023	Fine	22.4	1021.6	2764.81	2788.81	1440	41	1.14	1635	2.6410	2.7973	0.1563	96	163	260
7/12/2023	Fine	23.0	1017.1	2793.17	2817.17	1440	40	1.08	1560	2.6675	2.7853	0.1178	76		
13/12/2023	Fine	21.9	1013.9	2820.70	2844.70	1440	38	1.00	1435	2.6922	2.8038	0.1116	78		
19/12/2023	Fine	15.7	1022.3	2849.06	2873.06	1440	37	0.98	1417	2.6667	2.7662	0.0995	70		
23/12/2023	Fine	14.9	1029.3	2877.38	2901.38	1440	42	1.19	1717	2.7055	2.9143	0.2088	122		
29/12/2023	Fine	22.1	1019.7	2904.83	2928.83	1440	39	1.03	1478	2.6995	2.8553	0.1558	105		
												Average	91		
												Min	70		
												Max	122		

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 m/s	Start Time	End Time	L_{eq} (dB(A))							L_{10} (dB(A))						L_{90} (dB(A))						
					1st	2nd	3rd	4th	5th	6th	Overall (30min)	1st	2nd	3rd	4th	5th	6th	1st	2nd	3rd	4th	5th	6th	
1/12/2023	Fine	1.7	10:23	10:53	56.4	57.7	58.4	57.6	57.1	58.8	57.7	58.3	59.3	60.3	59.9	59.1	60.6	52.4	53.4	54.6	53.1	53.6	54.5	
7/12/2023	Fine	1.7	16:30	17:00	61.2	62.4	61.5	61.9	62.9	63.1	62.2	63.6	64.5	64.2	63.9	64.4	65.6	55.4	59.1	60.6	58.8	59.9	59.8	
13/12/2023	Fine	1.9	16:00	16:30	60.1	61.2	61.9	60.3	58.2	59.1	60.3	62.6	63.2	63.6	61.9	60.3	61.3	59.1	59.3	59.9	58.2	57.1	58.6	
19/12/2023	Fine	1.6	8:15	8:45	62.4	63.2	63.6	62.9	61.2	59.9	62.4	63.2	64.9	64.3	63.4	62.2	61.4	61.5	61.4	61.1	60.2	59.4	58.6	
29/12/2023	Fine	2.1	8:32	9:02	64.5	63.6	65.2	62.6	64.4	64.1	64.1	65.3	64.9	66.3	63.6	65.9	65.1	62.1	61.7	64.2	60.5	62.4	62.2	
											Average		61.9											
											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 m/s	Start Time	End Time	L_{eq} (dB(A))							L_{10} (dB(A))						L_{90} (dB(A))						
					1st	2nd	3rd	4th	5th	6th	Overall (30min)	1st	2nd	3rd	4th	5th	6th	1st	2nd	3rd	4th	5th	6th	
1/12/2023	Fine	1.6	14:30	15:00	49.3	50.4	50.6	49.3	48.6	49.3	49.6	52.3	53.6	53.9	52.4	51.6	52.6	45.3	46.2	46.3	45.4	44.6	46.3	
7/12/2023	Fine	1	15:10	15:40	54.8	52.6	52.7	58.3	54.6	53.2	54.9	57.6	55.5	55.6	61.3	55.2	55.2	45.2	45.8	46.3	46	46.7	42.5	
13/12/2023	Fine	2.1	14:05	14:35	53.2	52.1	53.6	54.1	54.4	53.1	53.5	54.3	53.2	54.5	55.9	55.8	54.1	51.1	50.3	51.6	52.4	51.6	50.6	
19/12/2023	Fine	1.8	9:50	10:20	52.5	51.9	54.3	54.4	53.1	52.6	53.2	52.5	51.9	54.3	54.4	53.1	52.6	52.5	51.9	54.3	54.4	53.1	52.6	
29/12/2023	Fine	1.4	13:10	13:40	54.2	55.6	53.4	54.1	54.6	54.9	54.5	54.2	55.6	53.4	54.1	54.6	54.9	54.2	55.6	53.4	54.1	54.6	54.9	
											Average		53.5											
											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
19-Dec-23	9:34	Sunny	1.1	0.1	16.0	7.6	<7.4	<4	7.6	>7.7	>7.8	5.8	>9.2	>9.5	9.5	>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
19-Dec-23	8:19	Sunny	0.60	0.2	14.7	5.6	<5	<4	7.5	>7.6	>7.7	60.2	>108.3	>108.9	44.6	>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






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	: HK2351542
Address	: UNIT D, 12/F, FORD GLORY PLAZA, NOS.37-39 WING HONG STREET, CHEUNG SHA WAN, KOWLOON, HONG KONG	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	: 19-Dec-2023
Order number	: ---	Quote	: HKE/2751/2022_V3	Issue Date	: 05-Jan-2024
		number			
C-O-C number	: ---			No. of samples received	: 2
Site	:			No. of samples analysed	: 2

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

<i>Signatories</i>	<i>Position</i>	<i>Authorised results for</i>
 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 19-Dec-2023 to 04-Jan-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: HK2351542

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 12:05.

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.

EA002 - pH value is reported as at 25°C. Calibration range of pH value is 4.0 - 10.0. Results exceeding this range is for reference only.

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

				Sample ID	WM 1	WM 2	---	---	---
				Sampling date / time	19-Dec-2023	19-Dec-2023	---	---	---
Compound	CAS Number	LOR	Unit	HK2351542-001	HK2351542-002	-----	-----	-----	
EA/ED: Physical and Aggregate Properties									
EA002: pH Value	----	0.1	pH Unit	6.7	7.4	---	---	---	
EA010: Electrical Conductivity @ 25°C	----	1	µS/cm	58	181	---	---	---	
EA025: Suspended Solids (SS)	----	0.1	mg/L	9.5	44.6	---	---	---	
ED037: Total Alkalinity as CaCO3	----	1	mg/L	16	54	---	---	---	
ED/EK: Inorganic Nonmetallic Parameters									
ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	3	22	---	---	---	
ED045K: Chloride	16887-00-6	0.5	mg/L	6	8	---	---	---	
EK055K: Ammonia as N	7664-41-7	0.01	mg/L	0.03	0.26	---	---	---	
EK058A: Nitrate as N	14797-55-8	0.01	mg/L	0.03	0.15	---	---	---	
EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.2	0.5	---	---	---	
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	7	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	3	---	---	---	
EG020: Lead	7439-92-1	1	µg/L	<1	4	---	---	---	
EG020: Manganese	7439-96-5	1	µg/L	57	2540	---	---	---	
EG020: Nickel	7440-02-0	1	µg/L	1	2	---	---	---	
EG020: Zinc	7440-66-6	10	µg/L	<10	26	---	---	---	
EG032: Calcium	7440-70-2	50	µg/L	3290	23800	---	---	---	
EG032: Iron	7439-89-6	10	µg/L	930	3080	---	---	---	
EG032: Magnesium	7439-95-4	50	µg/L	500	1970	---	---	---	
EG032: Potassium	7440-09-7	50	µg/L	400	2480	---	---	---	
EG032: Sodium	7440-23-5	50	µg/L	8380	7770	---	---	---	



Sub-Matrix: WATER				Sample ID	WM 1	WM 2	---	---	---
				Sampling date / time	19-Dec-2023	19-Dec-2023	---	---	---
Compound	CAS Number	LOR	Unit		HK2351542-001	HK2351542-002	-----	-----	-----
EM: Microbiological Testing									
EM002: E. coli	----	1	CFU/100mL		NOT DETECTED	6	---	---	---
EM003: Total Coliforms	----	1	CFU/100mL		NOT DETECTED	10	---	---	---



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: 5506837)								
HK2351568-001	Anonymous	EA010: Electrical Conductivity @ 25°C	----	1	µS/cm	1030	1030	0.4
HK2351542-001	WM 1	EA010: Electrical Conductivity @ 25°C	----	1	µS/cm	58	58	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 5507217)								
HK2351542-001	WM 1	EA002: pH Value	----	0.1	pH Unit	6.7	6.8	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 5507633)								
HK2351542-001	WM 1	ED037: Total Alkalinity as CaCO3	----	1	mg/L	16	16	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 5511192)								
HK2351542-001	WM 1	EA025: Suspended Solids (SS)	----	0.5	mg/L	9.5	9.8	2.6
HK2351559-001	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.4	2.7	12.7
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5506883)								
HK2351572-001	Anonymous	EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	5.02	5.22	3.9
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5509610)								
HK2351341-001	Anonymous	EK055K: Ammonia as N	7664-41-7	0.01	mg/L	26.3	26.0	1.5
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5509762)								
HK2351563-001	Anonymous	ED045K: Chloride	16887-00-6	1	mg/L	<1	<1	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5509764)								
HK2351563-001	Anonymous	ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	<1	<1	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5520400)								
HK2351542-001	WM 1	EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	<2	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5520402)								
HK2350899-001	Anonymous	EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	69.2	77.2	10.9
EP: Aggregate Organics (QC Lot: 5519884)								
HK2351477-001	Anonymous	EP005: Total Organic Carbon	----	1	mg/L	26	26	0.0
EP: Aggregate Organics (QC Lot: 5519905)								
HK2351503-001	Anonymous	EP026C: Chemical Oxygen Demand	----	5	mg/L	14	14	0.0
EG: Metals and Major Cations - Total (QC Lot: 5509304)								
HK2351542-002	WM 2	EG032: Iron	7439-89-6	10	µg/L	3080	3110	0.8
		EG032: Calcium	7440-70-2	50	µg/L	23800	23900	0.2



Matrix: WATER				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations - Total (QC Lot: 5509304) - Continued								
HK2351542-002	WM 2	EG032: Magnesium	7439-95-4	50	µg/L	1970	1990	0.9
		EG032: Potassium	7440-09-7	50	µg/L	2480	2480	0.0
		EG032: Sodium	7440-23-5	50	µg/L	7770	7720	0.6
EG: Metals and Major Cations - Total (QC Lot: 5509305)								
HK2351542-002	WM 2	EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	3	3	0.0
		EG020: Lead	7439-92-1	1	µg/L	4	4	0.0
		EG020: Manganese	7439-96-5	1	µg/L	2540	2600	2.2
		EG020: Nickel	7440-02-0	1	µg/L	2	2	0.0
		EG020: Zinc	7440-66-6	10	µg/L	26	24	5.5

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

Matrix: WATER				Method Blank (MB) Report		Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
Method: Compound	CAS Number	LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)	
						LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 5506837)											
EA010: Electrical Conductivity @ 25°C	----	1	µS/cm	<1	146.9 µS/cm	101	----	93.5	106	----	----
				<1	1412 µS/cm	101	----	94.3	105	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 5507633)											
ED037: Total Alkalinity as CaCO3	----	1	mg/L	<1	50 mg/L	104	----	95.0	105	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 5511192)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	20 mg/L	95.5	----	86.6	113	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5506883)											
EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	97.2	----	92.4	106	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5509610)											
EK055K: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	100	----	89.3	109	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5509762)											
ED045K: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	102	----	88.2	108	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5509764)											



Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report							
		LOR	Unit	Result	Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)		
Method: Compound	CAS Number					LCS	DCS	Low	High	Value	Control Limit	
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5509764) - Continued												
ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	<1	5 mg/L	102	----	91.4	109	----	----	
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5520400)												
EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	----	----	----	----	----	----	----	
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5520402)												
EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	0.5 mg/L	106	----	89.0	120	----	----	
EP: Aggregate Organics (QC Lot: 5506664)												
EP030: Biochemical Oxygen Demand	----	----	mg/L	----	198 mg/L	104	----	77.6	118	----	----	
EP: Aggregate Organics (QC Lot: 5519884)												
EP005: Total Organic Carbon	----	1	mg/L	<1	5 mg/L	111	----	87.3	120	----	----	
				<1	100 mg/L	100	----	88.8	120	----	----	
EP: Aggregate Organics (QC Lot: 5519905)												
EP026C: Chemical Oxygen Demand	----	----	mg/L	----	25 mg/L	99.6	----	92.0	108	----	----	
				----	250 mg/L	98.8	----	92.3	106	----	----	
EP: Aggregate Organics (QC Lot: 5519939)												
EP020: Oil & Grease	----	2	mg/L	<2	20 mg/L	85.2	----	81.7	105	----	----	
EG: Metals and Major Cations - Total (QC Lot: 5509304)												
EG032: Calcium	7440-70-2	50	µg/L	<50	2000 µg/L	103	----	85.0	115	----	----	
EG032: Iron	7439-89-6	10	µg/L	<10	2000 µg/L	113	----	85.0	115	----	----	
EG032: Magnesium	7439-95-4	50	µg/L	<50	2000 µg/L	110	----	85.0	115	----	----	
EG032: Potassium	7440-09-7	50	µg/L	<50	2000 µg/L	105	----	85.0	115	----	----	
EG032: Sodium	7440-23-5	50	µg/L	<50	2000 µg/L	113	----	85.0	115	----	----	
EG: Metals and Major Cations - Total (QC Lot: 5509305)												
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	5 µg/L	99.8	----	85.0	109	----	----	
EG020: Copper	7440-50-8	1	µg/L	<1	50 µg/L	107	----	90.0	111	----	----	
EG020: Lead	7439-92-1	1	µg/L	<1	50 µg/L	99.7	----	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	102	----	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					Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5506883)										
HK2351572-001	Anonymous	EK071K: Reactive Phosphorus as P	14265-44-2	5 mg/L	107	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5509610)										
HK2351341-001	Anonymous	EK055K: Ammonia as N	7664-41-7	50 mg/L	103	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5509762)										
HK2351563-001	Anonymous	ED045K: Chloride	16887-00-6	5 mg/L	89.0	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5509764)										
HK2351563-001	Anonymous	ED041K: Sulphate as SO4 - Turbidimetric	----	5 mg/L	101	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5520402)										
HK2350899-001	Anonymous	EK061A: Total Kjeldahl Nitrogen as N	----	50 mg/L	110	----	75.0	125	----	----
EP: Aggregate Organics (QC Lot: 5519884)										
HK2351477-001	Anonymous	EP005: Total Organic Carbon	----	25 mg/L	94.4	----	75.0	125	----	----
EP: Aggregate Organics (QC Lot: 5519905)										
HK2351501-001	Anonymous	EP026C: Chemical Oxygen Demand	----	10 mg/L	102	----	75.0	125	----	----
EG: Metals and Major Cations - Total (QC Lot: 5509304)										
HK2351542-001	WM 1	EG032: Calcium	7440-70-2	2000 µg/L	94.3	----	75.0	125	----	----
		EG032: Iron	7439-89-6	2000 µg/L	106	----	75.0	125	----	----
		EG032: Magnesium	7439-95-4	2000 µg/L	102	----	75.0	125	----	----
		EG032: Potassium	7440-09-7	2000 µg/L	101	----	75.0	125	----	----
		EG032: Sodium	7440-23-5	2000 µg/L	# Not Determined	----	75.0	125	----	----
EG: Metals and Major Cations - Total (QC Lot: 5509305)										
HK2351542-001	WM 1	EG020: Cadmium	7440-43-9	5 µg/L	101	----	75.0	125	----	----
		EG020: Copper	7440-50-8	50 µg/L	102	----	75.0	125	----	----
		EG020: Lead	7439-92-1	50 µg/L	99.7	----	75.0	125	----	----
		EG020: Manganese	7439-96-5	50 µg/L	104	----	75.0	125	----	----



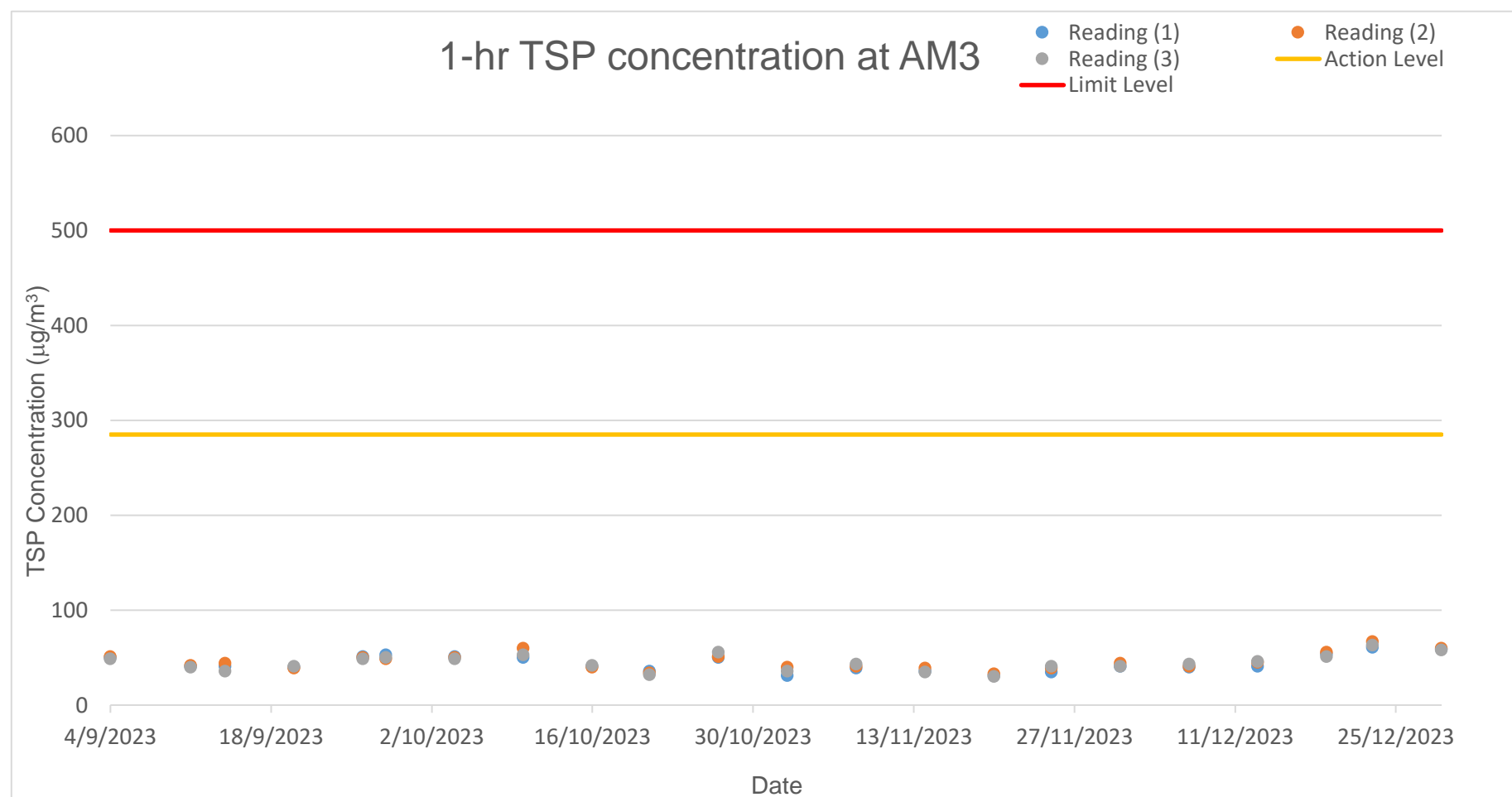
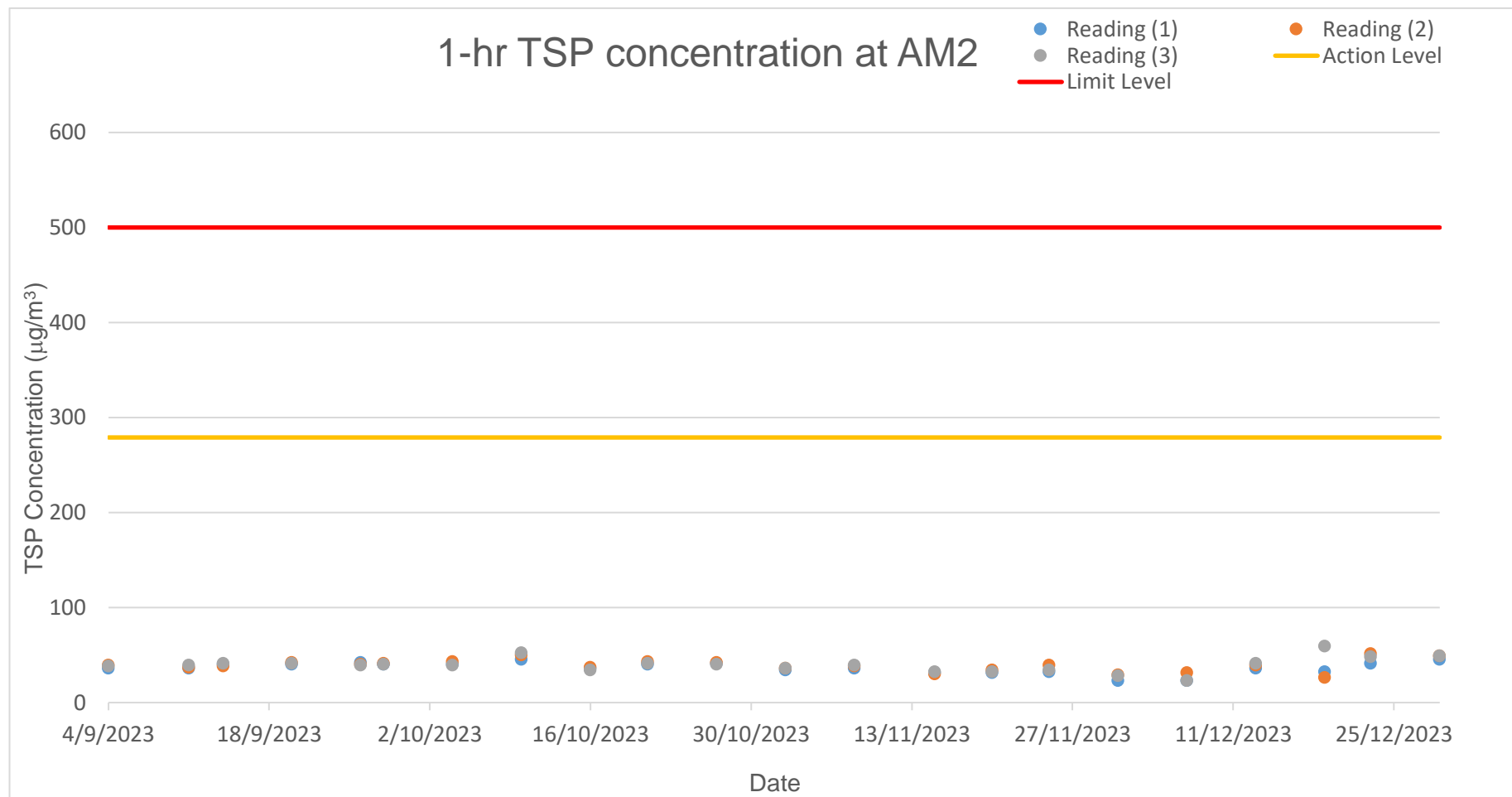
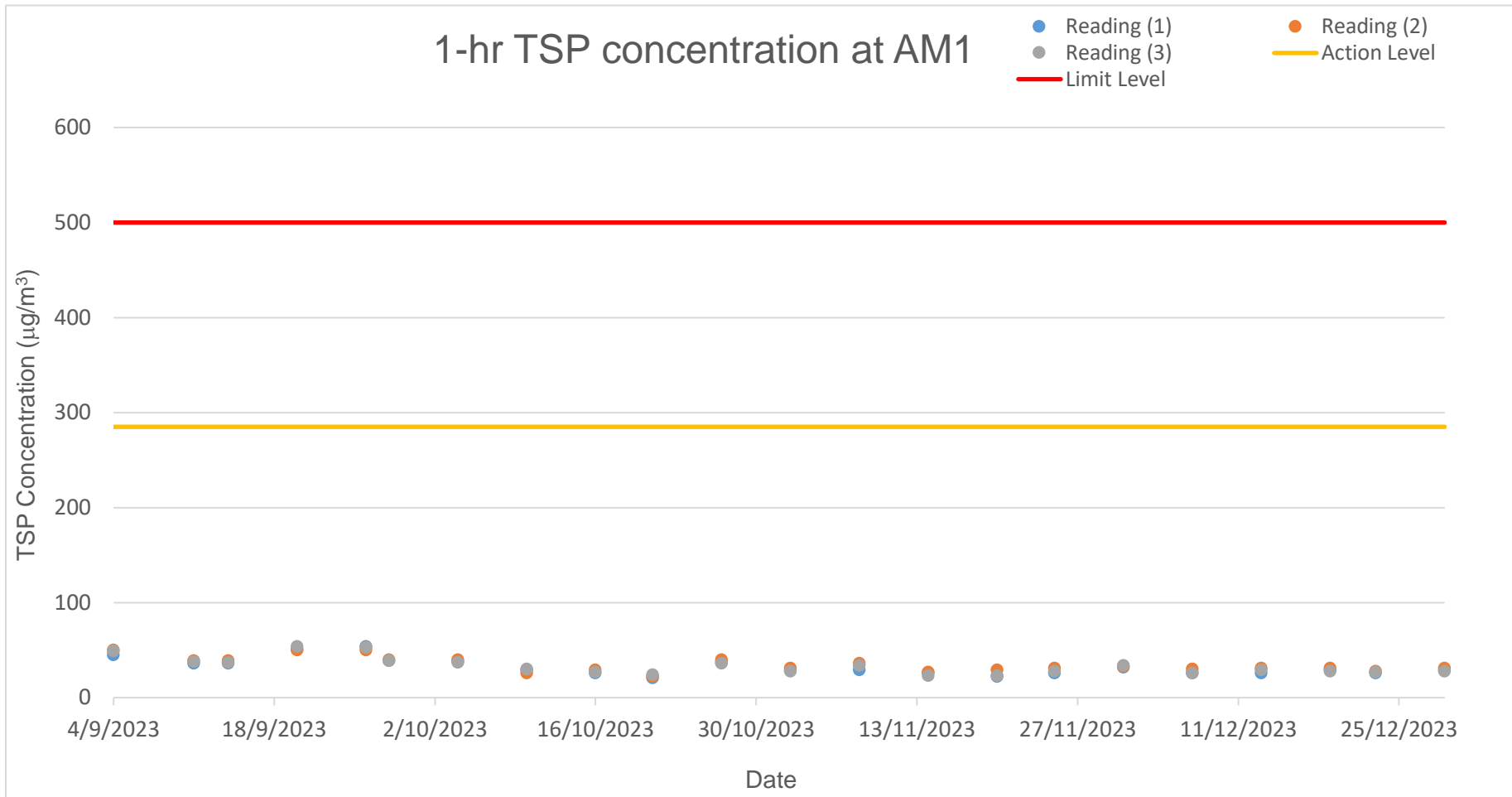
Matrix: WATER

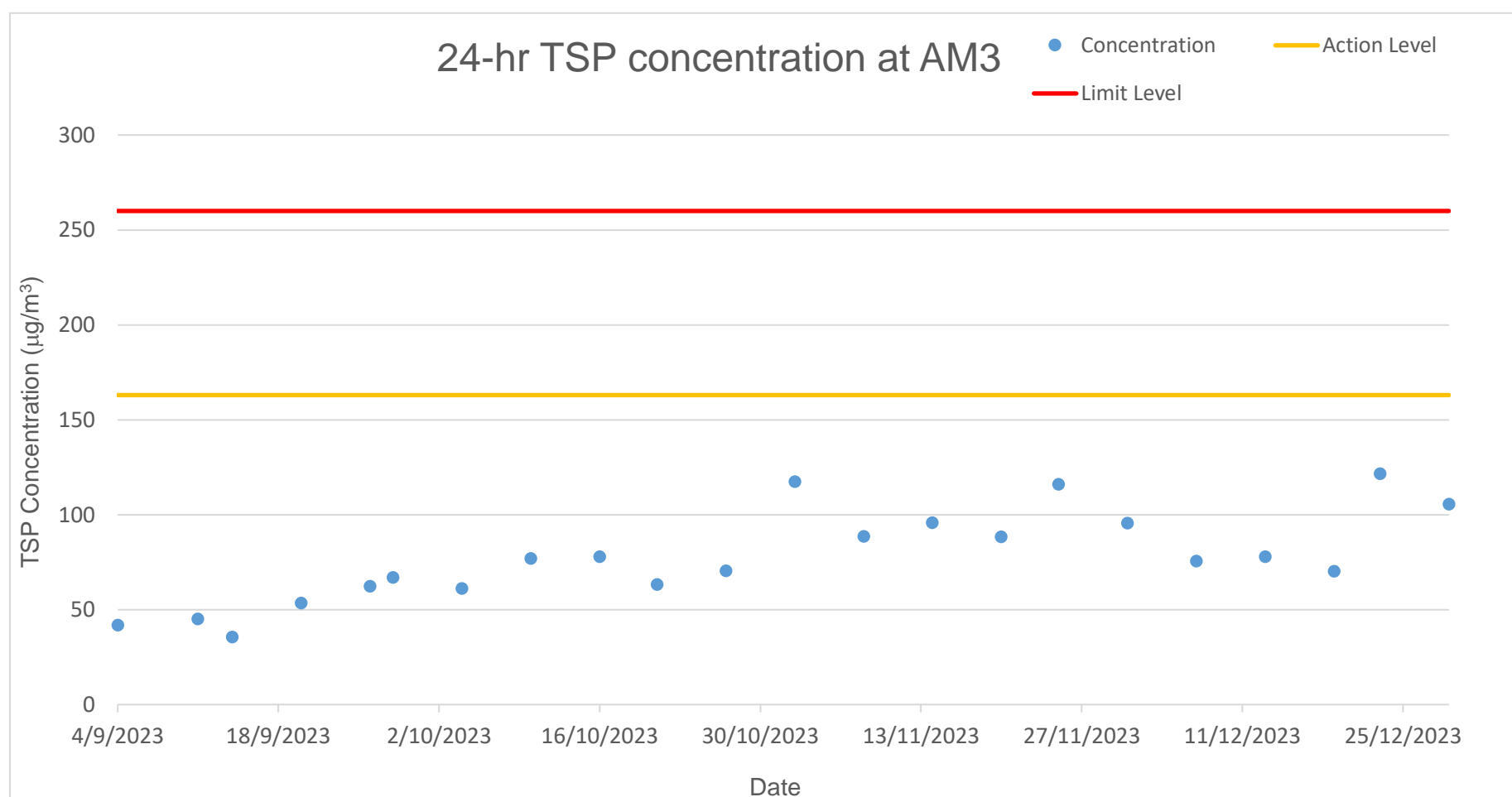
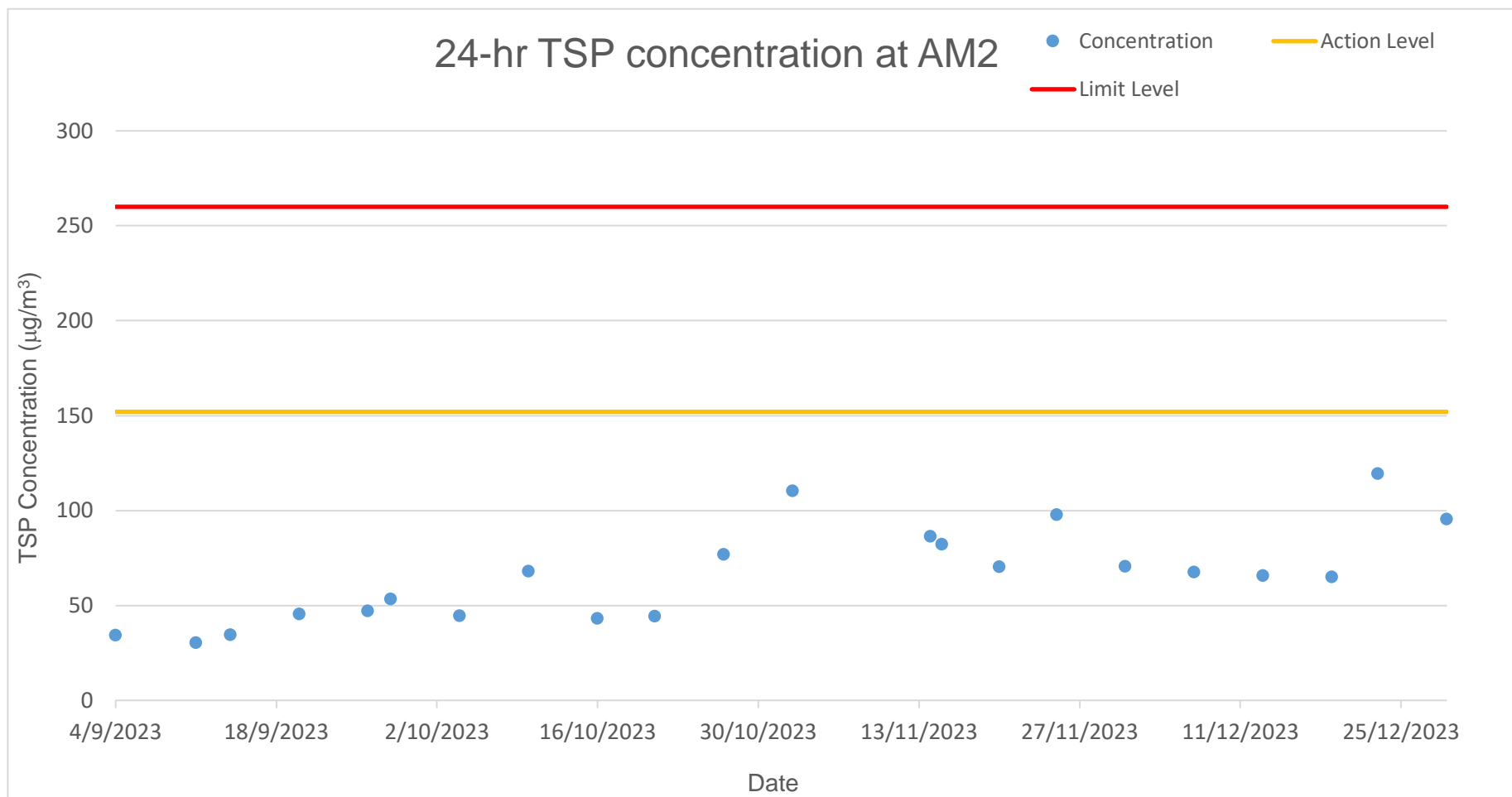
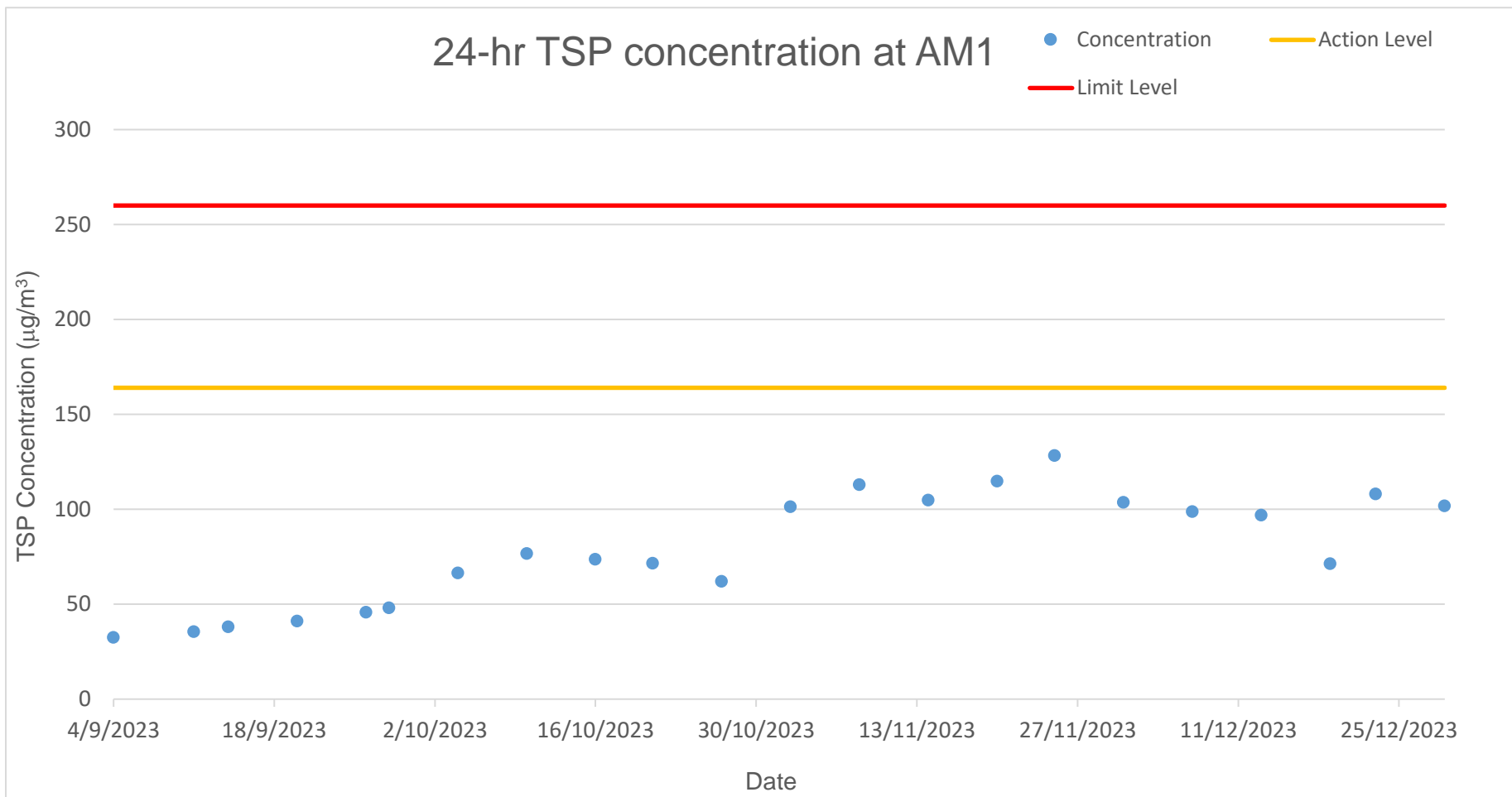
Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations - Total (QC Lot: 5509305) - Continued										
HK2351542-001	WM 1	EG020: Nickel	7440-02-0	50 µg/L	94.6	----	75.0	125	----	----
		EG020: Zinc	7440-66-6	50 µg/L	98.9	----	75.0	125	----	----

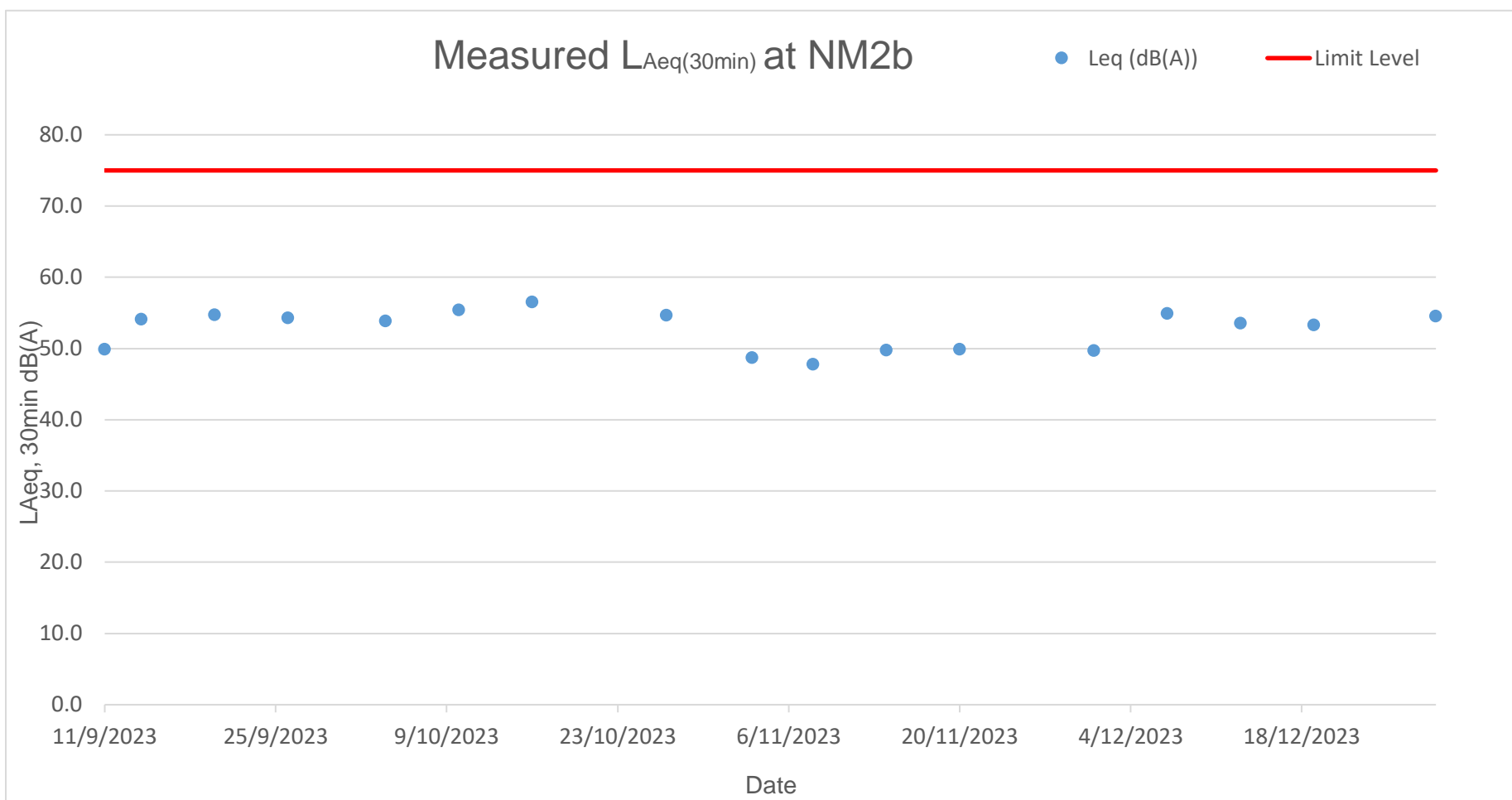
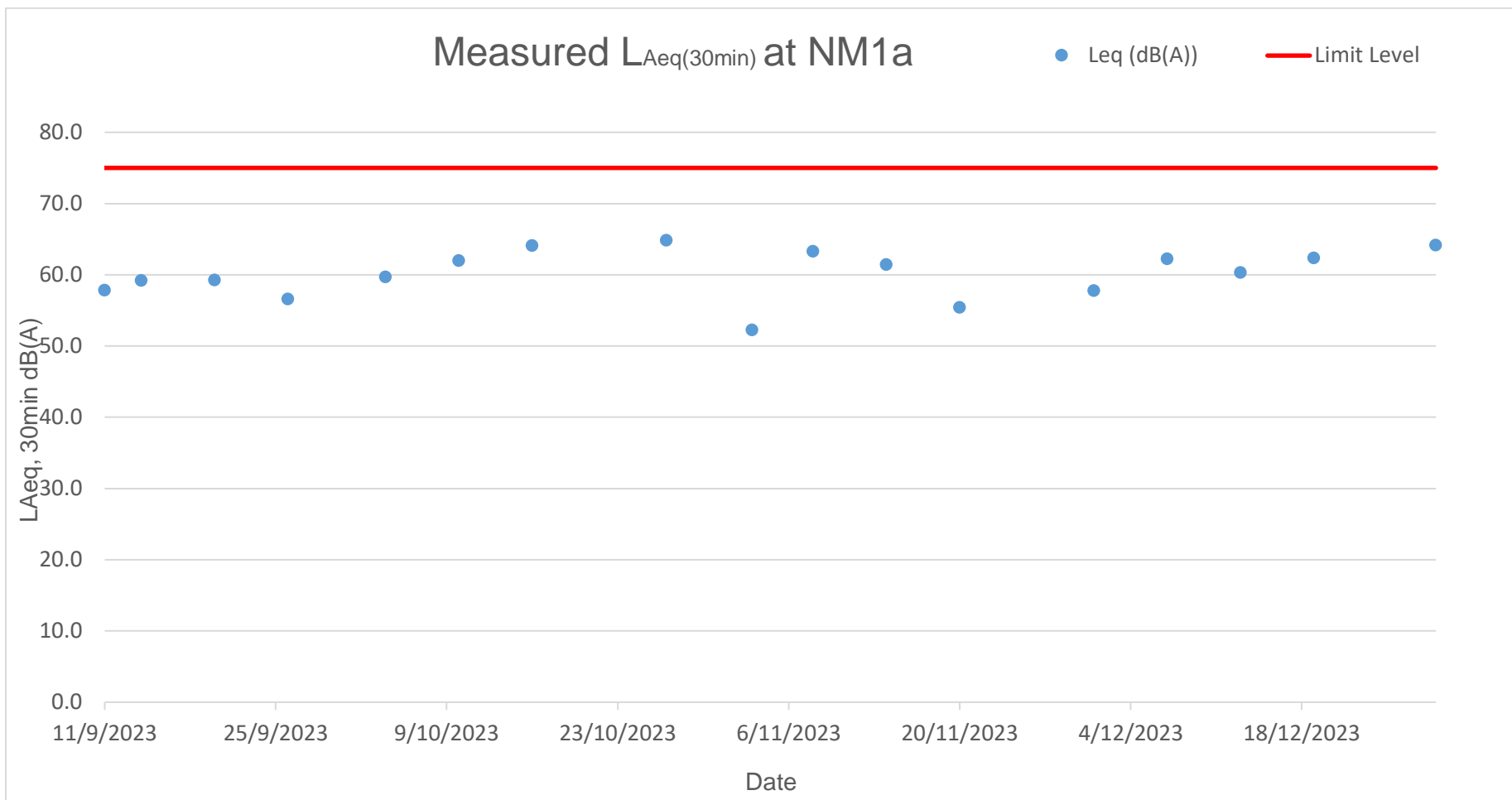
Appendix F Graphical Presentations

Air Quality



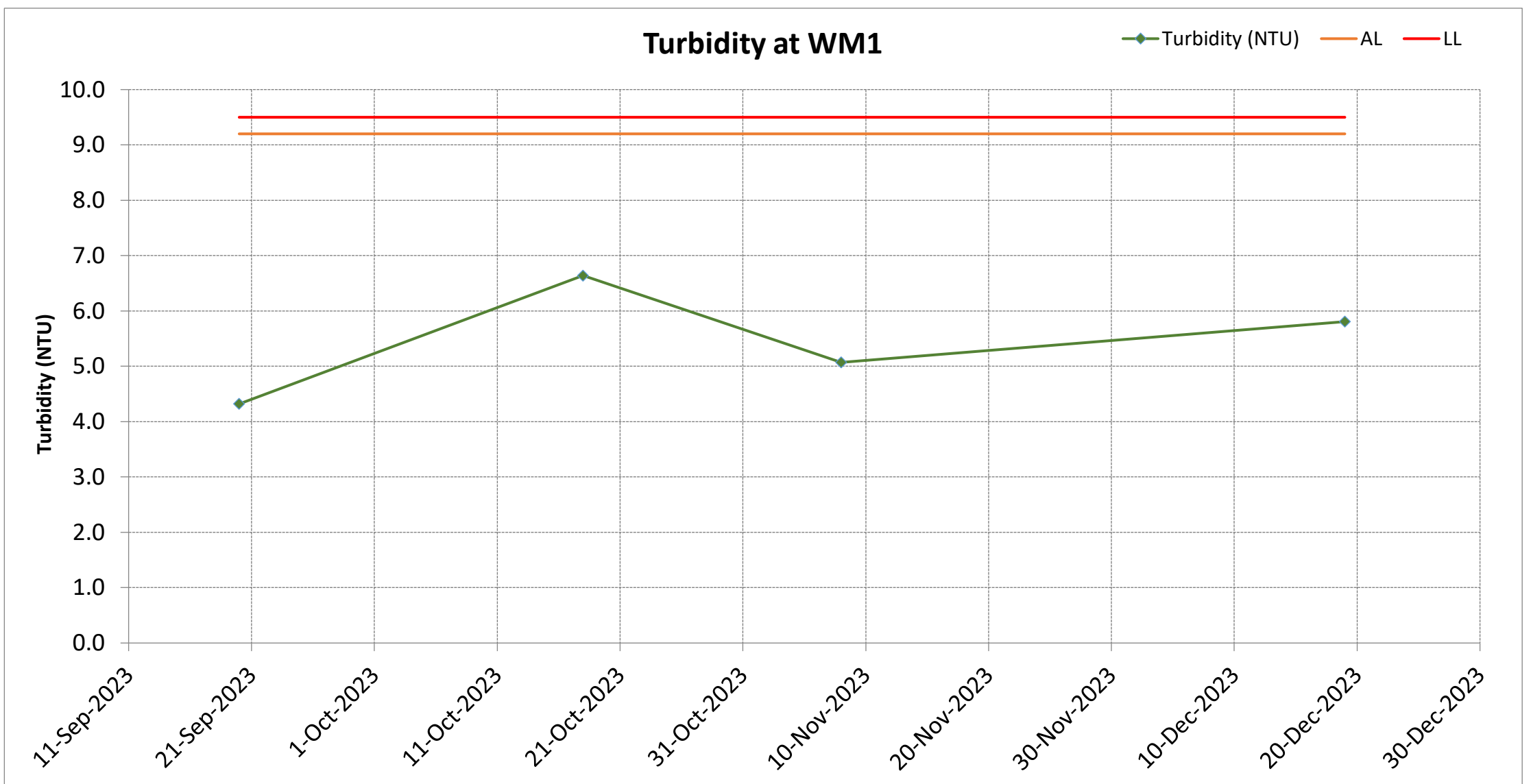
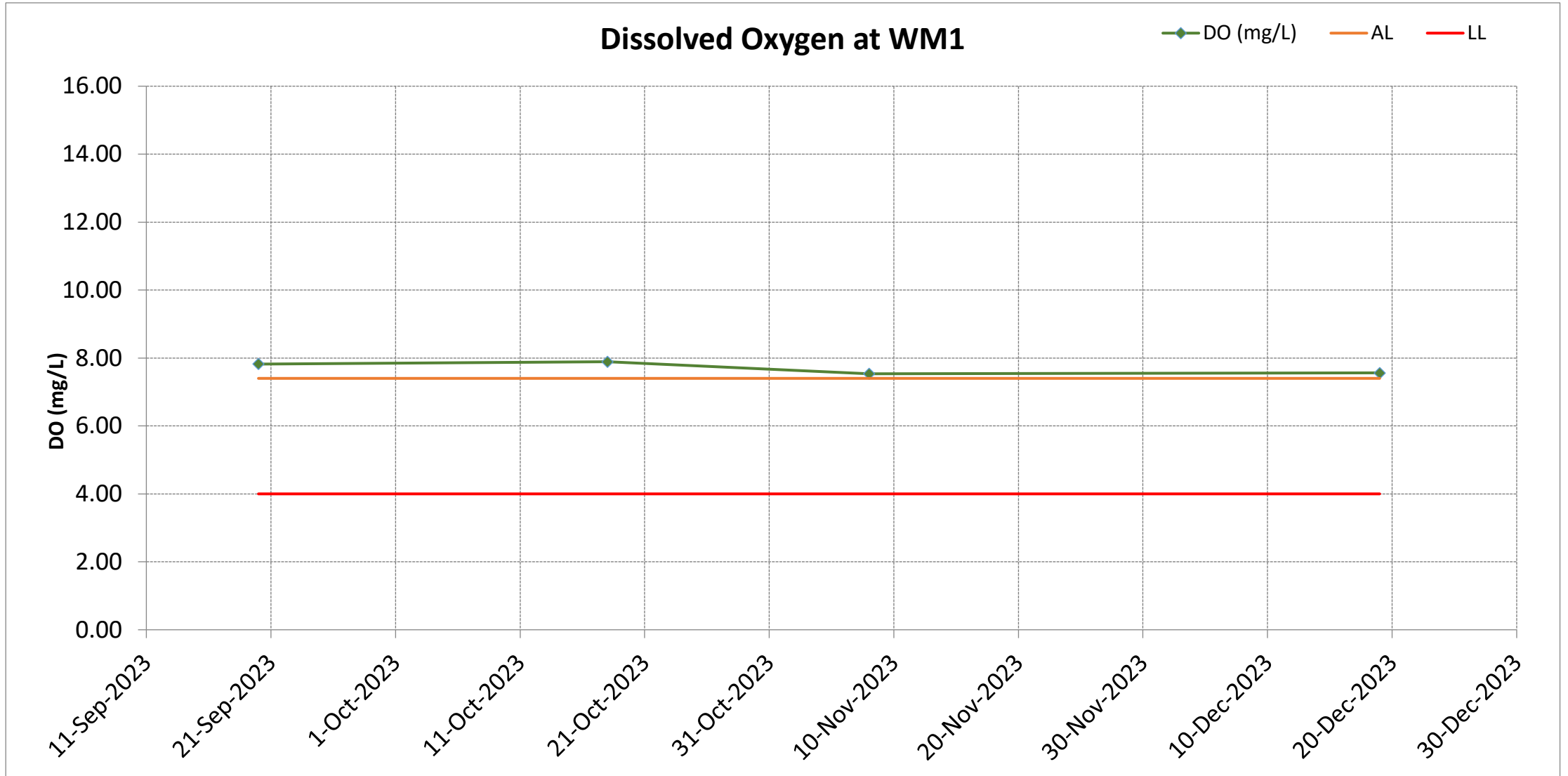


Noise

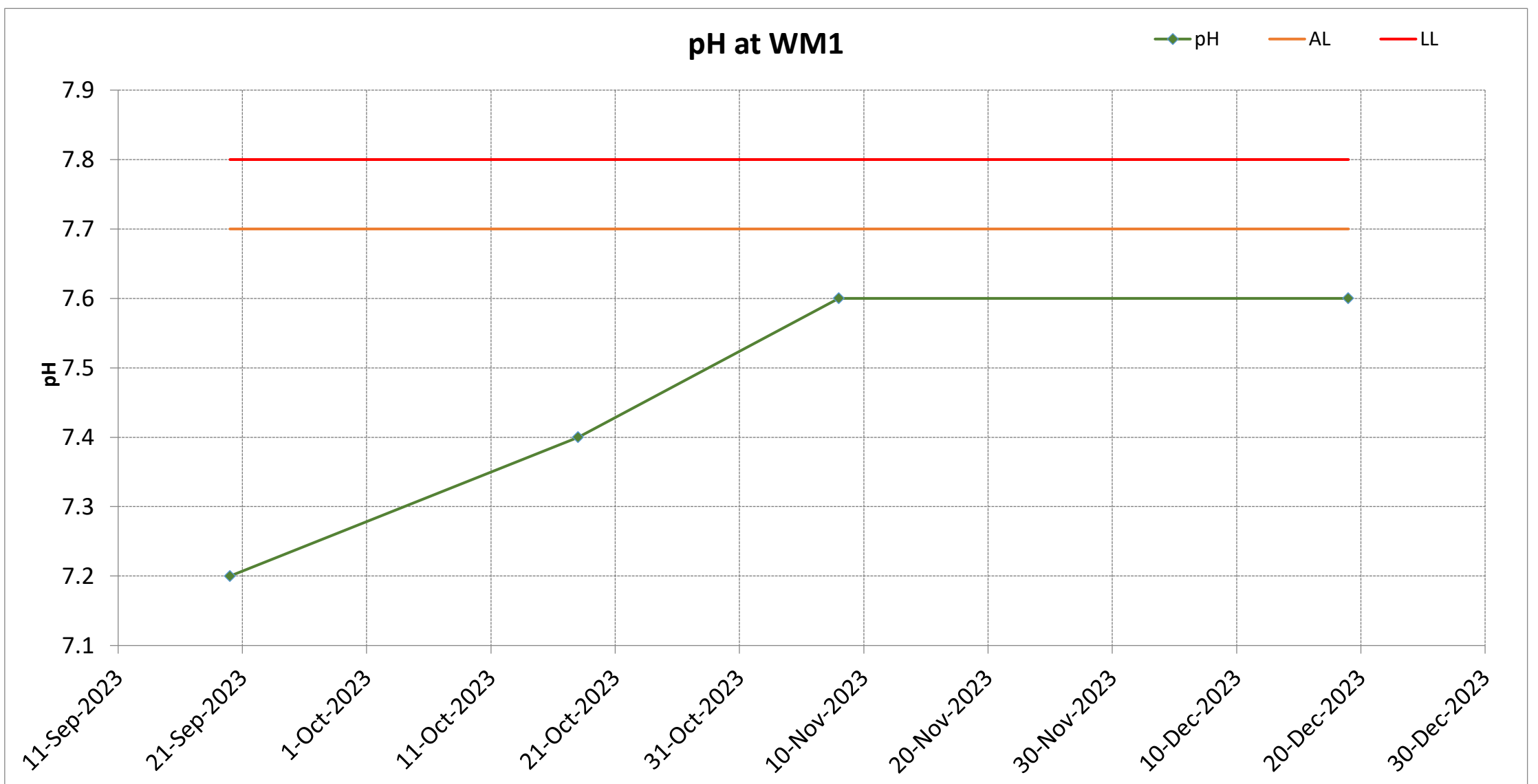
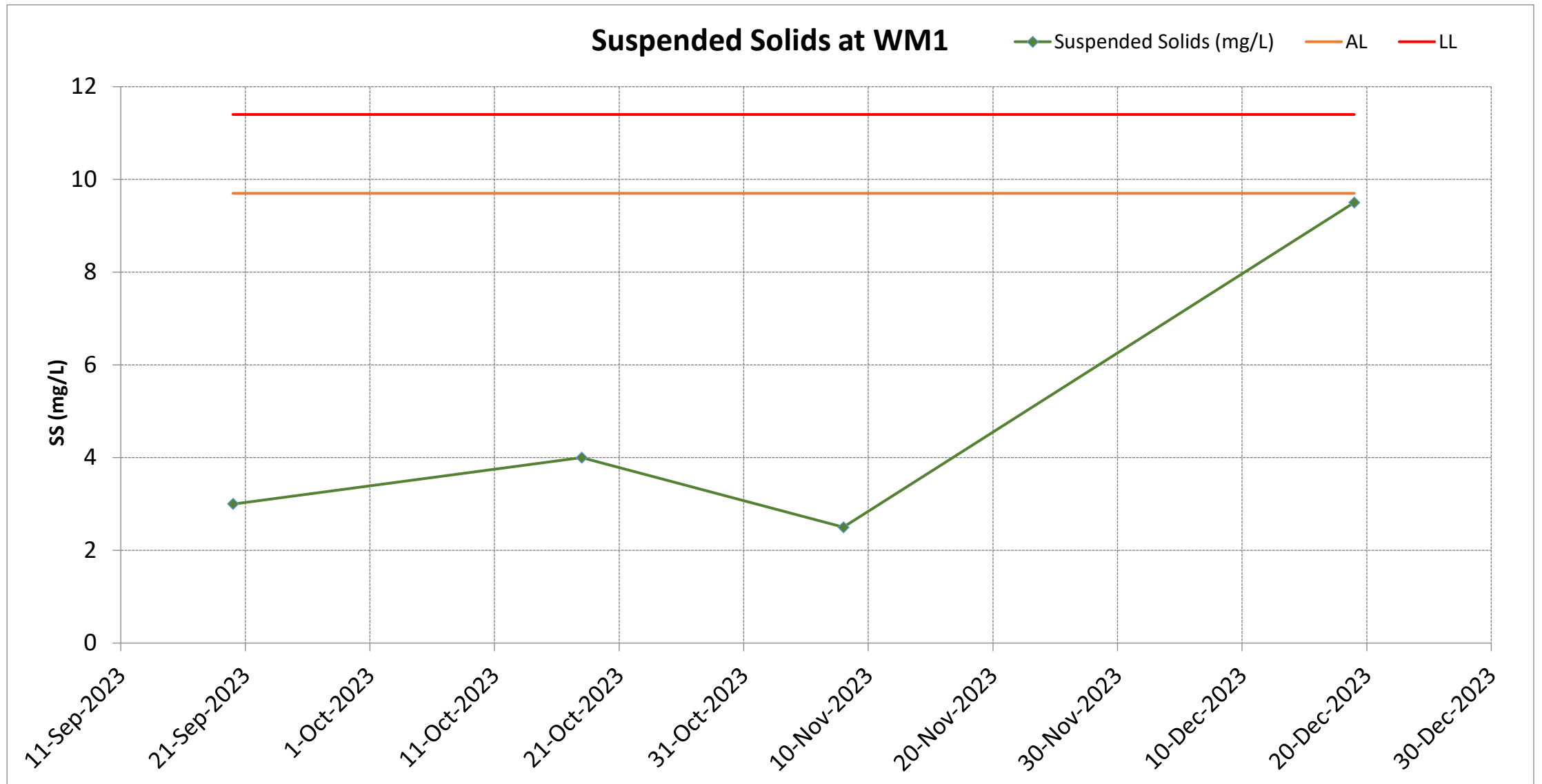


Water Quality

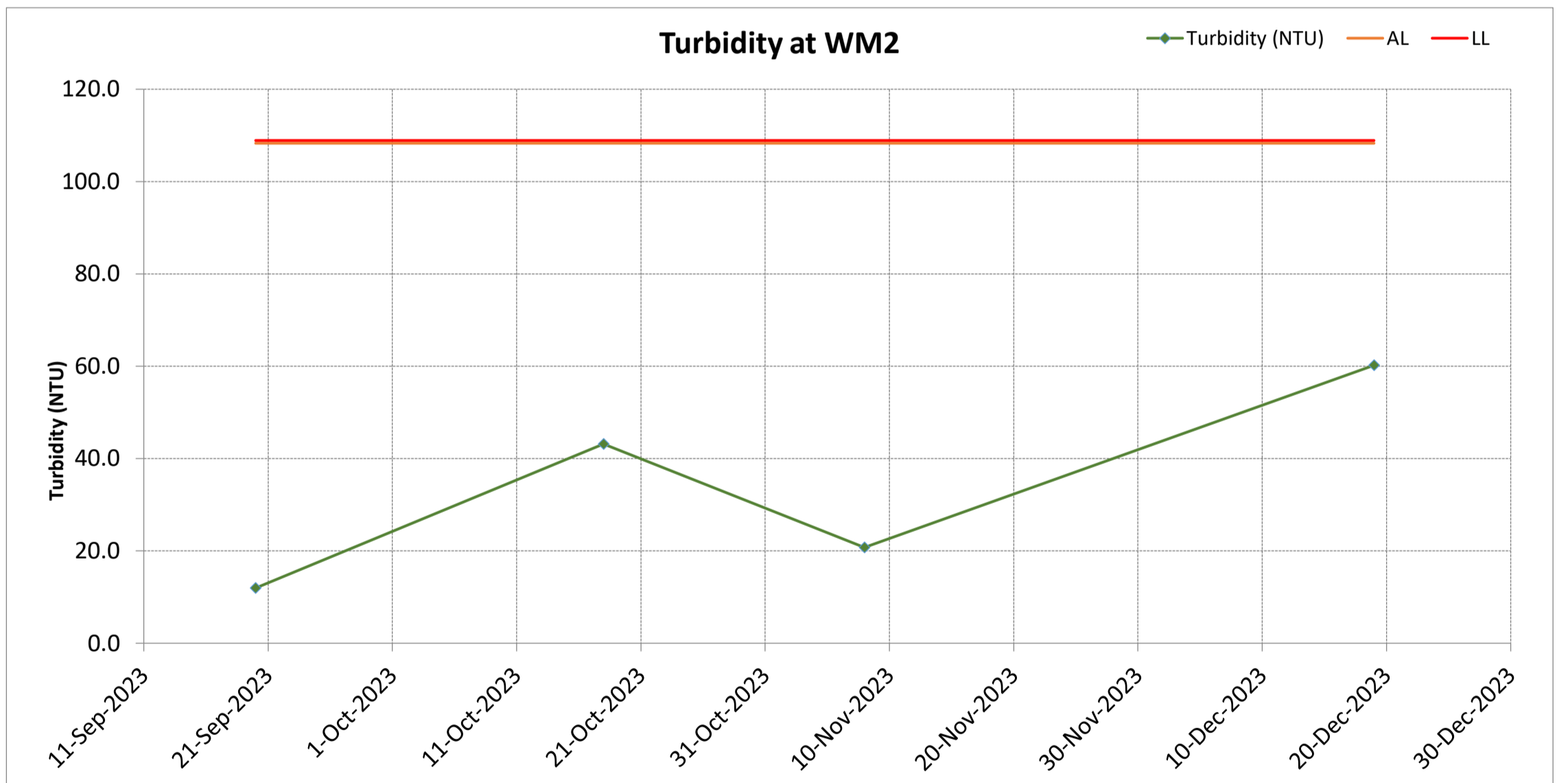
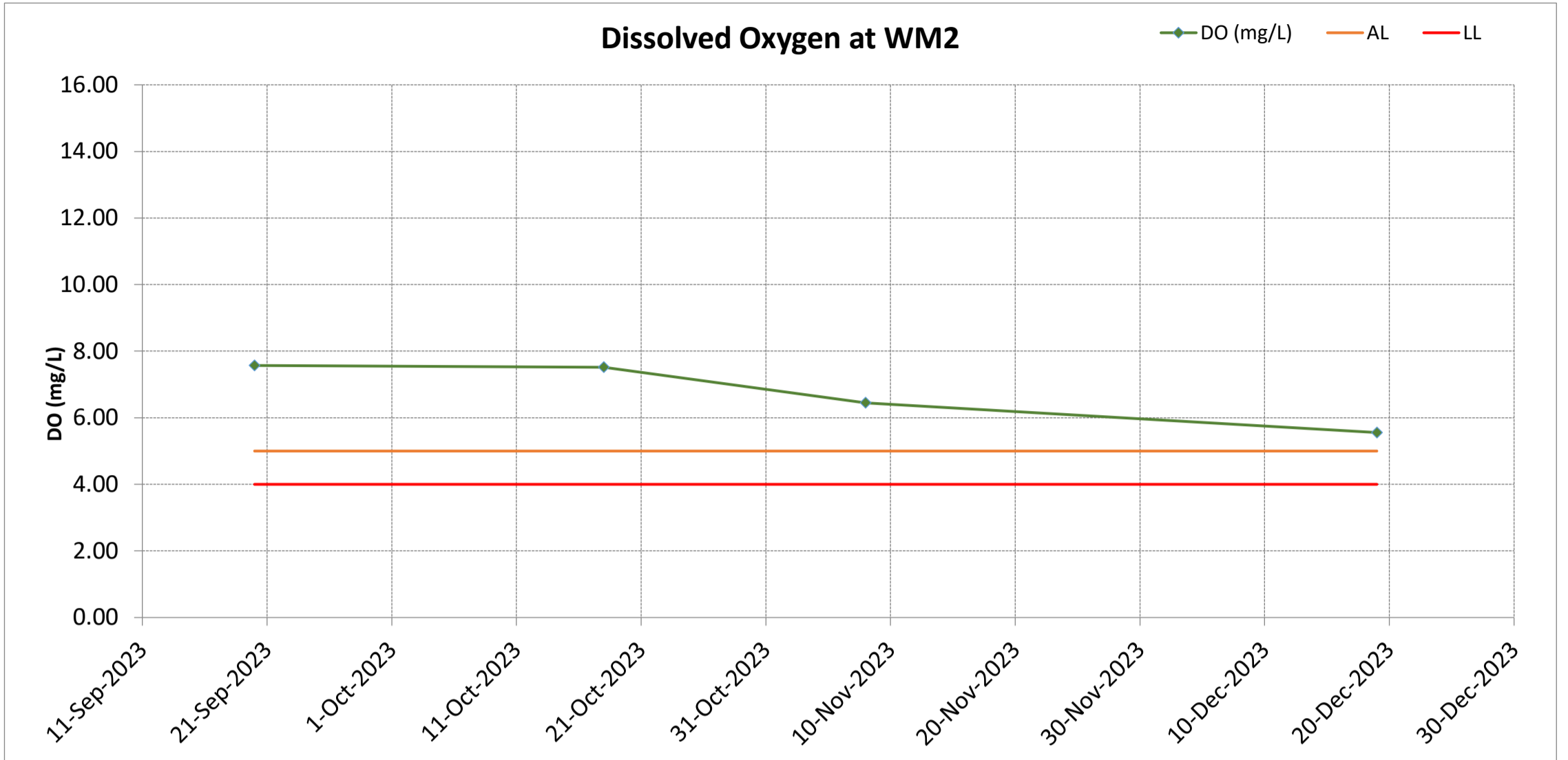
Surface Water Monitoring Results at WM1



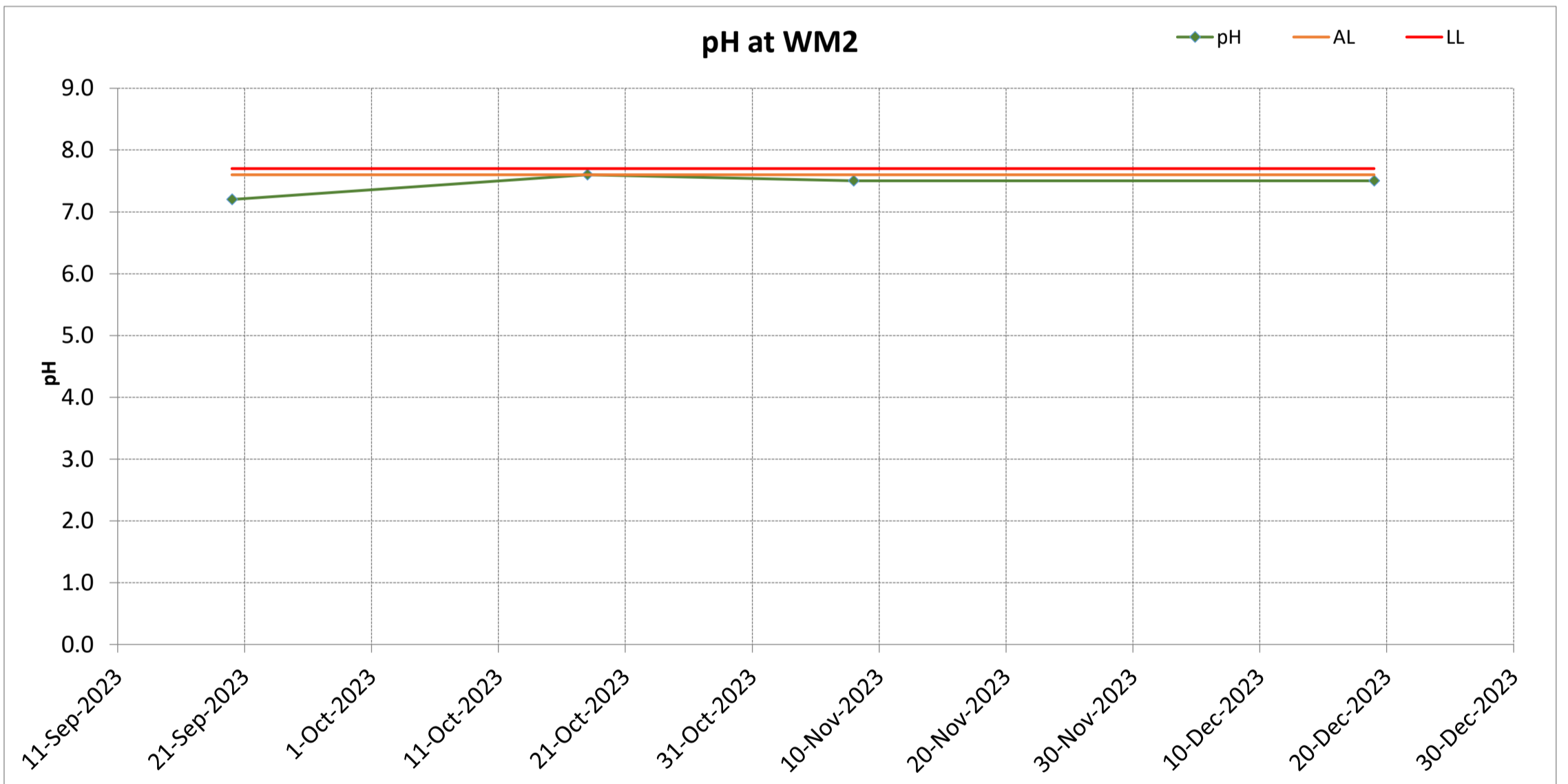
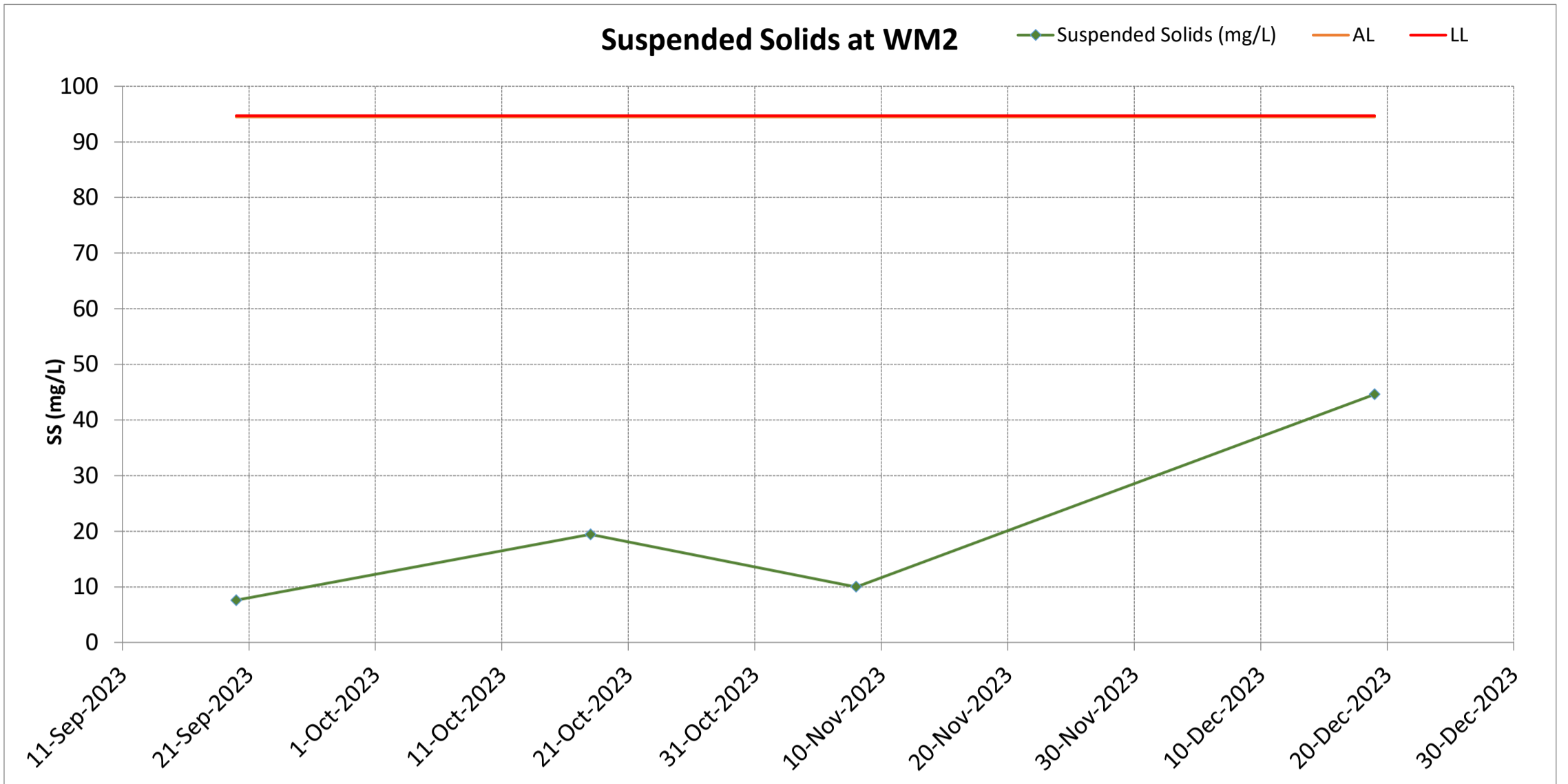
Surface Water Monitoring Results at WM1



Surface Water Monitoring Results at WM2



Surface Water Monitoring Results at WM2



Appendix G Notification of Environmental Quality Limits Exceedance

Notification of Environmental Quality Limits Exceedance

Air Quality Monitoring - Construction Dust

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

Noise Monitoring

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

Notification of Environmental Quality Limits Exceedance

Surface Water Monitoring

Surface Water Quality Monitoring Station	Level Exceedance	Monitoring Parameter (s)				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	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	0	0	0	0
WM2	Action	0	0	0	0	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	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	Monitoring Parameter(s)	No. of Exceedance
		Limit Level
Portion A +50 mpD to +70 mpD Platform	CH ₄	0
	CO ₂	0
	O ₂	0

Appendix H Wind Data

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231201 0000	0.1	60
20231201 0010	0.1	93
20231201 0020	0.1	93
20231201 0030	0.1	164
20231201 0040	0.1	340
20231201 0050	0.1	293
20231201 0100	0.1	296
20231201 0110	0.1	96
20231201 0120	0.1	159
20231201 0130	0.1	103
20231201 0140	0.1	49
20231201 0150	0.1	73
20231201 0200	0.1	122
20231201 0210	0.1	141
20231201 0220	0.1	3
20231201 0230	0.1	266
20231201 0240	0.1	120
20231201 0250	0.1	153
20231201 0300	0.1	116
20231201 0310	0.1	150
20231201 0320	0.1	74
20231201 0330	0.1	88
20231201 0340	0.1	145
20231201 0350	0.1	43
20231201 0400	0.1	289
20231201 0410	0.1	336
20231201 0420	0.1	304
20231201 0430	0.1	320
20231201 0440	0.1	314
20231201 0450	0.1	70
20231201 0500	0.1	346
20231201 0510	0.1	321
20231201 0520	0.1	137
20231201 0530	0.1	92
20231201 0540	0.2	301
20231201 0550	0.8	62
20231201 0600	1.9	303
20231201 0610	0.1	24
20231201 0620	0.1	11
20231201 0630	0.1	351
20231201 0640	1.4	299
20231201 0650	1	53
20231201 0700	0.1	297
20231201 0710	0.1	292
20231201 0720	0.1	12
20231201 0730	0.9	4
20231201 0740	0.3	11
20231201 0750	0.1	48
20231201 0800	0.2	337
20231201 0810	0.9	3
20231201 0820	1.5	327
20231201 0830	0.6	45
20231201 0840	0.4	337
20231201 0850	0.8	321
20231201 0900	0.1	317
20231201 0910	1.3	312
20231201 0920	0.1	29
20231201 0930	0.1	2
20231201 0940	0.1	59
20231201 0950	0.1	285
20231201 1000	0.1	49
20231201 1010	0.1	323
20231201 1020	0.1	316
20231201 1030	0.1	334
20231201 1040	0.1	70
20231201 1050	0.2	108
20231201 1100	0.8	314
20231201 1110	1.5	9
20231201 1120	0.1	24
20231201 1130	0.1	318
20231201 1140	0.1	20
20231201 1150	0.2	336

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231201 1200	2.7	98
20231201 1210	2.2	2
20231201 1220	0.1	315
20231201 1230	0.1	294
20231201 1240	0.1	250
20231201 1250	0.2	313
20231201 1300	0.8	61
20231201 1310	0.8	59
20231201 1320	0.1	26
20231201 1330	2.8	56
20231201 1340	0.1	48
20231201 1350	0.1	261
20231201 1400	1.7	295
20231201 1410	0.1	147
20231201 1420	0.1	247
20231201 1430	0.1	60
20231201 1440	0.4	97
20231201 1450	2.7	9
20231201 1500	0.1	71
20231201 1510	0.1	296
20231201 1520	1	300
20231201 1530	0.1	72
20231201 1540	0.6	63
20231201 1550	0.7	310
20231201 1600	0.1	301
20231201 1610	0.2	328
20231201 1620	0.4	14
20231201 1630	0.1	250
20231201 1640	0.1	15
20231201 1650	0.7	298
20231201 1700	0.1	278
20231201 1710	0.1	337
20231201 1720	0.1	64
20231201 1730	0.1	309
20231201 1740	0.1	345
20231201 1750	0.1	129
20231201 1800	0.1	317
20231201 1810	0.2	350
20231201 1820	0.1	17
20231201 1830	0.3	92
20231201 1840	0.1	133
20231201 1850	0.1	49
20231201 1900	0.1	6
20231201 1910	0.1	134
20231201 1920	0.1	47
20231201 1930	0.1	80
20231201 1940	0.1	147
20231201 1950	0.6	336
20231201 2000	0.1	284
20231201 2010	0.1	284
20231201 2020	0.4	80
20231201 2030	0.3	327
20231201 2040	0.1	219
20231201 2050	0.1	69
20231201 2100	0.1	5
20231201 2110	0.1	349
20231201 2120	0.1	102
20231201 2130	0.1	63
20231201 2140	0.2	337
20231201 2150	0.1	95
20231201 2200	0.1	316
20231201 2210	0.1	63
20231201 2220	0.1	348
20231201 2230	0.1	9
20231201 2240	0.1	56
20231201 2250	0.1	10
20231201 2300	0.4	302
20231201 2310	0.1	334
20231201 2320	0.1	306
20231201 2330	1.1	332
20231201 2340	2.1	46
20231201 2350	0.1	344

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231202 0000	0.1	338
20231202 0010	0.2	5
20231202 0020	0.1	332
20231202 0030	0.1	26
20231202 0040	0.1	8
20231202 0050	0.1	332
20231202 0100	0.1	54
20231202 0110	0.1	100
20231202 0120	0.1	93
20231202 0130	0.1	47
20231202 0140	0.1	326
20231202 0150	0.1	308
20231202 0200	0.1	60
20231202 0210	0.1	234
20231202 0220	0.1	323
20231202 0230	0.1	345
20231202 0240	0.1	80
20231202 0250	0.1	52
20231202 0300	0.2	323
20231202 0310	0.3	334
20231202 0320	0.1	311
20231202 0330	0.1	328
20231202 0340	0.1	334
20231202 0350	0.1	83
20231202 0400	0.1	231
20231202 0410	0.1	45
20231202 0420	0.1	108
20231202 0430	0.1	79
20231202 0440	0.1	158
20231202 0450	0.1	160
20231202 0500	0.1	336
20231202 0510	0.2	334
20231202 0520	0.1	11
20231202 0530	0.2	13
20231202 0540	0.1	17
20231202 0550	0.1	188
20231202 0600	0.1	8
20231202 0610	0.1	28
20231202 0620	0.1	168
20231202 0630	0.1	80
20231202 0640	0.1	29
20231202 0650	0.1	150
20231202 0700	0.1	72
20231202 0710	0.1	341
20231202 0720	0.1	172
20231202 0730	0.1	280
20231202 0740	0.1	147
20231202 0750	0.1	74
20231202 0800	0.1	220
20231202 0810	0.1	72
20231202 0820	0.1	100
20231202 0830	0.1	158
20231202 0840	0.1	214
20231202 0850	0.1	177
20231202 0900	0.1	137
20231202 0910	0.1	117
20231202 0920	0.2	314
20231202 0930	0.2	218
20231202 0940	0.1	15
20231202 0950	0.1	229
20231202 1000	0.2	178
20231202 1010	0.1	288
20231202 1020	0.1	111
20231202 1030	0.1	172
20231202 1040	0.1	162
20231202 1050	0.1	70
20231202 1100	0.1	291
20231202 1110	0.4	232
20231202 1120	0.8	236
20231202 1130	0.1	240
20231202 1140	0.1	242
20231202 1150	0.1	183

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231202 1200	0.1	136
20231202 1210	0.1	183
20231202 1220	0.1	154
20231202 1230	0.1	249
20231202 1240	0.5	152
20231202 1250	0.2	29
20231202 1300	0.5	182
20231202 1310	0.3	200
20231202 1320	0.3	50
20231202 1330	0.6	190
20231202 1340	0.1	228
20231202 1350	0.1	205
20231202 1400	1.1	212
20231202 1410	0.2	234
20231202 1420	1.1	173
20231202 1430	0.2	256
20231202 1440	0.2	192
20231202 1450	0.1	221
20231202 1500	0.1	183
20231202 1510	0.1	136
20231202 1520	1	155
20231202 1530	0.4	195
20231202 1540	0.1	250
20231202 1550	1.9	196
20231202 1600	1.5	196
20231202 1610	0.1	251
20231202 1620	0.1	236
20231202 1630	0.1	82
20231202 1640	0.1	262
20231202 1650	0.1	105
20231202 1700	0.1	93
20231202 1710	0.1	123
20231202 1720	0.1	90
20231202 1730	0.1	94
20231202 1740	0.1	312
20231202 1750	0.1	26
20231202 1800	0.1	58
20231202 1810	0.1	19
20231202 1820	0.1	164
20231202 1830	0.1	84
20231202 1840	0.1	85
20231202 1850	0.1	34
20231202 1900	0.1	2
20231202 1910	0.1	16
20231202 1920	0.1	36
20231202 1930	0.1	12
20231202 1940	0.1	130
20231202 1950	0.1	63
20231202 2000	0.1	18
20231202 2010	0.1	11
20231202 2020	0.8	131
20231202 2030	0.1	47
20231202 2040	0.4	66
20231202 2050	0.1	89
20231202 2100	0.4	182
20231202 2110	0.1	163
20231202 2120	0.1	294
20231202 2130	0.1	191
20231202 2140	0.1	145
20231202 2150	0.1	159
20231202 2200	0.1	104
20231202 2210	0.1	338
20231202 2220	0.1	330
20231202 2230	0.3	39
20231202 2240	0.5	218
20231202 2250	1.4	327
20231202 2300	0.2	78
20231202 2310	0.3	333
20231202 2320	0.1	50
20231202 2330	0.1	252
20231202 2340	0.1	176
20231202 2350	0.2	317

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231203 0000	0.1	148
20231203 0010	0.1	11
20231203 0020	0.1	150
20231203 0030	0.1	153
20231203 0040	0.1	150
20231203 0050	0.1	108
20231203 0100	0.1	98
20231203 0110	0.1	125
20231203 0120	0.1	108
20231203 0130	0.1	101
20231203 0140	0.1	151
20231203 0150	0.1	153
20231203 0200	0.1	66
20231203 0210	0.1	133
20231203 0220	0.1	152
20231203 0230	0.1	124
20231203 0240	0.1	125
20231203 0250	0.1	125
20231203 0300	0.1	106
20231203 0310	0.1	150
20231203 0320	0.1	0
20231203 0330	0.1	131
20231203 0340	0.1	44
20231203 0350	0.1	281
20231203 0400	0.1	227
20231203 0410	0.1	42
20231203 0420	0.1	114
20231203 0430	0.1	132
20231203 0440	0.1	211
20231203 0450	0.1	206
20231203 0500	0.1	179
20231203 0510	0.1	182
20231203 0520	0.1	194
20231203 0530	0.1	233
20231203 0540	0.1	148
20231203 0550	0.1	207
20231203 0600	0.1	170
20231203 0610	0.1	203
20231203 0620	0.1	132
20231203 0630	0.1	141
20231203 0640	0.1	157
20231203 0650	0.1	98
20231203 0700	0.1	318
20231203 0710	0.1	187
20231203 0720	0.1	109
20231203 0730	0.1	95
20231203 0740	0.1	148
20231203 0750	0.1	308
20231203 0800	0.3	335
20231203 0810	1.8	321
20231203 0820	0.2	305
20231203 0830	0.1	6
20231203 0840	0.1	337
20231203 0850	0.1	113
20231203 0900	0.3	334
20231203 0910	0.1	62
20231203 0920	0.1	152
20231203 0930	0.1	212
20231203 0940	0.1	323
20231203 0950	0.2	243
20231203 1000	0.1	257
20231203 1010	0.3	302
20231203 1020	0.1	233
20231203 1030	0.1	189
20231203 1040	0.1	137
20231203 1050	0.1	165
20231203 1100	0.1	288
20231203 1110	0.1	16
20231203 1120	0.4	193
20231203 1130	0.1	166
20231203 1140	0.7	220
20231203 1150	0.5	174

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231203 1200	0.2	195
20231203 1210	0.4	318
20231203 1220	0.8	198
20231203 1230	0.2	241
20231203 1240	1.1	219
20231203 1250	0.1	10
20231203 1300	0.1	86
20231203 1310	0.8	112
20231203 1320	0.1	117
20231203 1330	0.1	179
20231203 1340	1	187
20231203 1350	0.1	203
20231203 1400	1.6	196
20231203 1410	0.3	190
20231203 1420	0.1	91
20231203 1430	0.7	181
20231203 1440	0.5	291
20231203 1450	0.2	279
20231203 1500	0.5	111
20231203 1510	0.1	124
20231203 1520	0.1	149
20231203 1530	0.1	270
20231203 1540	0.1	87
20231203 1550	0.1	82
20231203 1600	0.1	49
20231203 1610	0.1	59
20231203 1620	0.1	106
20231203 1630	0.1	98
20231203 1640	0.1	27
20231203 1650	0.1	128
20231203 1700	0.1	69
20231203 1710	0.1	111
20231203 1720	0.1	114
20231203 1730	0.1	103
20231203 1740	0.1	99
20231203 1750	0.1	345
20231203 1800	0.1	126
20231203 1810	0.1	79
20231203 1820	0.1	96
20231203 1830	0.1	12
20231203 1840	0.1	200
20231203 1850	0.1	113
20231203 1900	0.8	100
20231203 1910	0.1	352
20231203 1920	0.1	61
20231203 1930	0.1	128
20231203 1940	0.1	242
20231203 1950	0.1	141
20231203 2000	0.1	154
20231203 2010	0.1	113
20231203 2020	0.1	150
20231203 2030	0.1	99
20231203 2040	0.1	80
20231203 2050	0.1	94
20231203 2100	0.1	156
20231203 2110	0.1	88
20231203 2120	0.1	144
20231203 2130	0.1	81
20231203 2140	0.1	102
20231203 2150	0.1	84
20231203 2200	0.1	173
20231203 2210	0.1	114
20231203 2220	0.1	156
20231203 2230	0.1	93
20231203 2240	0.1	246
20231203 2250	0.1	30
20231203 2300	0.1	317
20231203 2310	0.1	19
20231203 2320	0.1	121
20231203 2330	0.1	82
20231203 2340	0.1	108
20231203 2350	0.1	309

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231204 0000	0.1	92
20231204 0010	0.1	139
20231204 0020	0.1	297
20231204 0030	0.1	146
20231204 0040	0.1	106
20231204 0050	0.1	150
20231204 0100	0.1	77
20231204 0110	0.1	102
20231204 0120	0.1	129
20231204 0130	0.1	160
20231204 0140	0.1	167
20231204 0150	0.1	175
20231204 0200	0.1	138
20231204 0210	0.1	69
20231204 0220	0.1	50
20231204 0230	0.1	93
20231204 0240	0.1	149
20231204 0250	0.1	90
20231204 0300	0.1	110
20231204 0310	0.1	111
20231204 0320	0.1	108
20231204 0330	0.1	77
20231204 0340	0.1	117
20231204 0350	0.1	44
20231204 0400	0.1	13
20231204 0410	0.1	137
20231204 0420	0.1	14
20231204 0430	0.1	153
20231204 0440	0.1	157
20231204 0450	0.1	109
20231204 0500	0.1	94
20231204 0510	0.1	85
20231204 0520	0.1	52
20231204 0530	0.1	131
20231204 0540	0.1	108
20231204 0550	0.1	83
20231204 0600	0.1	85
20231204 0610	0.1	81
20231204 0620	0.1	220
20231204 0630	0.1	148
20231204 0640	0.1	84
20231204 0650	0.1	103
20231204 0700	0.1	235
20231204 0710	0.1	203
20231204 0720	0.1	218
20231204 0730	0.1	136
20231204 0740	0.1	120
20231204 0750	0.1	186
20231204 0800	0.1	114
20231204 0810	0.1	163
20231204 0820	0.1	150
20231204 0830	0.1	149
20231204 0840	0.1	216
20231204 0850	0.1	126
20231204 0900	0.1	185
20231204 0910	0.1	213
20231204 0920	0.5	188
20231204 0930	0.1	221
20231204 0940	0.3	217
20231204 0950	0.1	40
20231204 1000	0.2	180
20231204 1010	0.4	214
20231204 1020	0.1	192
20231204 1030	0.2	183
20231204 1040	0.9	189
20231204 1050	0.1	187
20231204 1100	0.6	188
20231204 1110	0.1	239
20231204 1120	1.2	216
20231204 1130	0.1	175
20231204 1140	0.1	286
20231204 1150	0.1	147

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231204 1200	0.2	234
20231204 1210	1.9	314
20231204 1220	0.6	181
20231204 1230	0.1	290
20231204 1240	0.1	228
20231204 1250	0.1	302
20231204 1300	1.2	199
20231204 1310	2.3	27
20231204 1320	0.3	73
20231204 1330	0.1	71
20231204 1340	1.1	221
20231204 1350	0.3	212
20231204 1400	0.1	60
20231204 1410	0.1	298
20231204 1420	1.2	192
20231204 1430	0.1	322
20231204 1440	0.1	208
20231204 1450	0.1	161
20231204 1500	0.2	189
20231204 1510	0.1	270
20231204 1520	0.1	178
20231204 1530	0.1	277
20231204 1540	0.6	156
20231204 1550	0.6	107
20231204 1600	0.4	112
20231204 1610	0.1	57
20231204 1620	0.1	63
20231204 1630	0.3	45
20231204 1640	0.1	113
20231204 1650	0.1	43
20231204 1700	0.1	56
20231204 1710	0.1	10
20231204 1720	0.1	157
20231204 1730	0.1	125
20231204 1740	0.1	134
20231204 1750	0.1	137
20231204 1800	0.1	106
20231204 1810	0.1	162
20231204 1820	0.1	77
20231204 1830	0.1	347
20231204 1840	0.1	8
20231204 1850	0.1	65
20231204 1900	0.1	317
20231204 1910	0.1	328
20231204 1920	0.1	69
20231204 1930	0.1	180
20231204 1940	0.1	160
20231204 1950	0.2	69
20231204 2000	0.8	55
20231204 2010	0.1	80
20231204 2020	0.1	236
20231204 2030	0.1	201
20231204 2040	0.3	152
20231204 2050	0.3	140
20231204 2100	0.1	178
20231204 2110	0.1	93
20231204 2120	0.1	108
20231204 2130	0.1	123
20231204 2140	0.2	60
20231204 2150	0.2	144
20231204 2200	0.1	94
20231204 2210	0.1	154
20231204 2220	0.1	162
20231204 2230	0.1	109
20231204 2240	0.1	81
20231204 2250	0.1	63
20231204 2300	0.1	46
20231204 2310	0.7	47
20231204 2320	0.6	131
20231204 2330	0.1	73
20231204 2340	0.1	50
20231204 2350	0.1	65

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231205 0000	0.3	19
20231205 0010	0.1	292
20231205 0020	0.1	123
20231205 0030	0.1	117
20231205 0040	0.1	150
20231205 0050	0.1	133
20231205 0100	0.1	139
20231205 0110	0.1	124
20231205 0120	0.1	346
20231205 0130	0.1	109
20231205 0140	0.1	306
20231205 0150	0.1	154
20231205 0200	0.1	81
20231205 0210	0.1	18
20231205 0220	0.1	118
20231205 0230	0.1	145
20231205 0240	0.1	275
20231205 0250	0.1	189
20231205 0300	0.1	89
20231205 0310	0.1	120
20231205 0320	0.1	144
20231205 0330	0.1	65
20231205 0340	0.1	98
20231205 0350	0.1	160
20231205 0400	0.1	145
20231205 0410	0.1	109
20231205 0420	0.2	53
20231205 0430	0.1	34
20231205 0440	0.1	66
20231205 0450	0.1	309
20231205 0500	0.1	348
20231205 0510	0.1	63
20231205 0520	0.1	60
20231205 0530	0.1	25
20231205 0540	0.1	351
20231205 0550	0.1	10
20231205 0600	0.1	65
20231205 0610	0.1	135
20231205 0620	0.1	79
20231205 0630	0.1	98
20231205 0640	0.1	67
20231205 0650	0.1	68
20231205 0700	0.1	87
20231205 0710	0.1	163
20231205 0720	0.1	93
20231205 0730	0.1	48
20231205 0740	0.1	189
20231205 0750	0.1	180
20231205 0800	0.1	112
20231205 0810	0.1	92
20231205 0820	0.1	149
20231205 0830	0.1	129
20231205 0840	0.1	148
20231205 0850	0.1	98
20231205 0900	0.1	230
20231205 0910	0.1	63
20231205 0920	0.1	91
20231205 0930	0.1	105
20231205 0940	0.1	232
20231205 0950	0.1	200
20231205 1000	0.1	214
20231205 1010	0.1	263
20231205 1020	0.2	147
20231205 1030	0.1	206
20231205 1040	0.1	176
20231205 1050	0.3	142
20231205 1100	0.5	227
20231205 1110	1.5	192
20231205 1120	0.5	120
20231205 1130	1.5	322
20231205 1140	0.4	162
20231205 1150	0.1	111

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231205 1200	0.2	343
20231205 1210	0.1	263
20231205 1220	0.1	223
20231205 1230	1.5	177
20231205 1240	3.1	160
20231205 1250	0.1	144
20231205 1300	0.1	186
20231205 1310	0.8	219
20231205 1320	2.5	246
20231205 1330	1.6	176
20231205 1340	0.7	178
20231205 1350	0.1	190
20231205 1400	0.1	79
20231205 1410	0.1	256
20231205 1420	0.1	259
20231205 1430	0.1	16
20231205 1440	0.7	113
20231205 1450	0.1	332
20231205 1500	0.1	61
20231205 1510	0.1	231
20231205 1520	0.1	235
20231205 1530	0.3	215
20231205 1540	0.8	220
20231205 1550	1.8	163
20231205 1600	0.1	253
20231205 1610	0.7	194
20231205 1620	1.1	180
20231205 1630	0.2	198
20231205 1640	0.1	205
20231205 1650	0.1	156
20231205 1700	0.1	181
20231205 1710	0.1	122
20231205 1720	0.1	182
20231205 1730	0.1	44
20231205 1740	0.1	66
20231205 1750	0.1	78
20231205 1800	0.1	57
20231205 1810	0.1	28
20231205 1820	0.1	70
20231205 1830	0.1	3
20231205 1840	0.1	37
20231205 1850	0.1	73
20231205 1900	0.1	21
20231205 1910	0.1	0
20231205 1920	0.1	99
20231205 1930	0.1	26
20231205 1940	0.1	52
20231205 1950	0.1	38
20231205 2000	0.1	21
20231205 2010	0.1	330
20231205 2020	0.1	5
20231205 2030	0.1	130
20231205 2040	0.1	63
20231205 2050	0.1	53
20231205 2100	0.1	17
20231205 2110	0.1	32
20231205 2120	0.1	6
20231205 2130	0.1	193
20231205 2140	0.1	96
20231205 2150	0.1	66
20231205 2200	0.1	5
20231205 2210	0.1	44
20231205 2220	0.1	128
20231205 2230	0.1	80
20231205 2240	0.1	62
20231205 2250	0.1	57
20231205 2300	0.1	5
20231205 2310	0.1	57
20231205 2320	0.1	58
20231205 2330	0.1	69
20231205 2340	0.1	104
20231205 2350	0.1	35

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231206 0000	0.1	50
20231206 0010	0.1	74
20231206 0020	0.1	94
20231206 0030	0.1	114
20231206 0040	0.1	243
20231206 0050	0.1	63
20231206 0100	0.1	87
20231206 0110	0.1	64
20231206 0120	0.1	8
20231206 0130	0.1	162
20231206 0140	0.1	63
20231206 0150	0.1	345
20231206 0200	0.1	195
20231206 0210	0.1	136
20231206 0220	0.1	117
20231206 0230	0.1	127
20231206 0240	0.1	150
20231206 0250	0.1	219
20231206 0300	0.1	171
20231206 0310	0.1	185
20231206 0320	0.1	28
20231206 0330	0.1	22
20231206 0340	0.1	66
20231206 0350	0.1	50
20231206 0400	0.1	323
20231206 0410	0.1	109
20231206 0420	0.1	98
20231206 0430	0.1	35
20231206 0440	0.1	326
20231206 0450	0.1	67
20231206 0500	0.1	225
20231206 0510	0.1	139
20231206 0520	0.1	43
20231206 0530	0.1	99
20231206 0540	0.1	126
20231206 0550	0.1	61
20231206 0600	0.1	298
20231206 0610	0.1	339
20231206 0620	0.1	263
20231206 0630	0.1	108
20231206 0640	0.1	55
20231206 0650	0.2	59
20231206 0700	0.1	212
20231206 0710	0.1	128
20231206 0720	0.1	165
20231206 0730	0.1	80
20231206 0740	0.1	219
20231206 0750	0.1	190
20231206 0800	0.1	241
20231206 0810	0.1	193
20231206 0820	0.1	231
20231206 0830	0.1	267
20231206 0840	0.1	128
20231206 0850	0.1	209
20231206 0900	0.1	166
20231206 0910	0.1	129
20231206 0920	1.1	198
20231206 0930	0.2	232
20231206 0940	0.1	210
20231206 0950	0.1	257
20231206 1000	0.1	139
20231206 1010	0.3	70
20231206 1020	1.0	74
20231206 1030	0.1	83
20231206 1040	0.6	126
20231206 1050	0.1	180
20231206 1100	0.1	46
20231206 1110	0.1	117
20231206 1120	1.9	147
20231206 1130	0.2	93
20231206 1140	0.1	107
20231206 1150	0.1	296

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231206 1200	0.1	193
20231206 1210	0.1	78
20231206 1220	0.3	48
20231206 1230	0.2	39
20231206 1240	1.2	316
20231206 1250	0.1	43
20231206 1300	0.1	330
20231206 1310	0.5	90
20231206 1320	0.1	105
20231206 1330	0.4	47
20231206 1340	1.6	52
20231206 1350	0.1	66
20231206 1400	0.9	352
20231206 1410	1.0	63
20231206 1420	0.1	178
20231206 1430	0.1	42
20231206 1440	0.3	45
20231206 1450	0.5	15
20231206 1500	0.2	324
20231206 1510	0.2	316
20231206 1520	0.7	66
20231206 1530	0.6	62
20231206 1540	0.2	315
20231206 1550	0.3	337
20231206 1600	0.8	32
20231206 1610	0.1	344
20231206 1620	0.1	82
20231206 1630	1.2	26
20231206 1640	0.1	207
20231206 1650	0.1	74
20231206 1700	0.6	159
20231206 1710	0.1	107
20231206 1720	0.1	61
20231206 1730	0.1	81
20231206 1740	1.7	324
20231206 1750	0.1	193
20231206 1800	0.1	152
20231206 1810	1.9	342
20231206 1820	3.8	64
20231206 1830	0.1	132
20231206 1840	0.1	311
20231206 1850	0.1	155
20231206 1900	0.1	8
20231206 1910	4.5	49
20231206 1920	0.5	221
20231206 1930	0.1	228
20231206 1940	3.3	348
20231206 1950	0.6	337
20231206 2000	0.1	50
20231206 2010	1.8	17
20231206 2020	2.7	268
20231206 2030	0.2	63
20231206 2040	0.2	79
20231206 2050	4.3	19
20231206 2100	2.3	293
20231206 2110	0.1	328
20231206 2120	0.4	262
20231206 2130	3.7	8
20231206 2140	0.2	309
20231206 2150	0.2	67
20231206 2200	0.2	37
20231206 2210	0.1	67
20231206 2220	0.1	17
20231206 2230	0.1	32
20231206 2240	0.1	17
20231206 2250	0.1	53
20231206 2300	0.1	129
20231206 2310	0.1	57
20231206 2320	0.1	45
20231206 2330	0.1	45
20231206 2340	0.1	50
20231206 2350	0.1	38

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231207 0000	0.1	38
20231207 0010	0.1	41
20231207 0020	0.1	38
20231207 0030	0.1	68
20231207 0040	0.1	63
20231207 0050	0.1	36
20231207 0100	0.1	8
20231207 0110	0.1	109
20231207 0120	0.1	352
20231207 0130	0.1	57
20231207 0140	0.1	52
20231207 0150	0.1	55
20231207 0200	0.1	53
20231207 0210	0.1	34
20231207 0220	0.1	58
20231207 0230	0.1	43
20231207 0240	0.1	33
20231207 0250	0.1	331
20231207 0300	0.1	53
20231207 0310	0.1	57
20231207 0320	0.1	37
20231207 0330	0.1	47
20231207 0340	0.1	40
20231207 0350	0.1	58
20231207 0400	0.1	42
20231207 0410	0.1	27
20231207 0420	0.1	36
20231207 0430	0.1	45
20231207 0440	0.1	37
20231207 0450	0.1	27
20231207 0500	0.1	17
20231207 0510	0.1	45
20231207 0520	0.1	52
20231207 0530	0.1	53
20231207 0540	0.1	59
20231207 0550	0.1	48
20231207 0600	0.1	59
20231207 0610	0.1	18
20231207 0620	0.1	47
20231207 0630	0.1	28
20231207 0640	0.1	30
20231207 0650	0.1	38
20231207 0700	0.1	45
20231207 0710	0.1	39
20231207 0720	0.1	42
20231207 0730	0.1	88
20231207 0740	0.1	3
20231207 0750	0.1	55
20231207 0800	0.1	86
20231207 0810	0.1	49
20231207 0820	0.1	115
20231207 0830	0.1	89
20231207 0840	0.1	140
20231207 0850	0.1	150
20231207 0900	0.1	121
20231207 0910	0.1	136
20231207 0920	0.1	143
20231207 0930	0.1	172
20231207 0940	0.4	159
20231207 0950	0.6	163
20231207 1000	0.1	202
20231207 1010	0.1	218
20231207 1020	0.3	121
20231207 1030	1.1	129
20231207 1040	0.2	181
20231207 1050	1.1	210
20231207 1100	0.2	194
20231207 1110	1.5	201
20231207 1120	0.9	178
20231207 1130	2.9	147
20231207 1140	1.4	211
20231207 1150	3	212

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231207 1200	2.2	305
20231207 1210	0.5	205
20231207 1220	0.3	183
20231207 1230	0.1	56
20231207 1240	0.6	135
20231207 1250	1.6	253
20231207 1300	0.2	153
20231207 1310	0.3	129
20231207 1320	0.1	333
20231207 1330	0.8	90
20231207 1340	0.2	182
20231207 1350	3	172
20231207 1400	0.1	146
20231207 1410	0.5	98
20231207 1420	0.1	331
20231207 1430	1.2	294
20231207 1440	0.3	157
20231207 1450	0.5	5
20231207 1500	1.7	193
20231207 1510	0.1	136
20231207 1520	0.1	95
20231207 1530	1.5	109
20231207 1540	0.1	183
20231207 1550	0.1	137
20231207 1600	0.1	15
20231207 1610	0.1	66
20231207 1620	0.1	71
20231207 1630	1.9	83
20231207 1640	0.1	207
20231207 1650	0.1	47
20231207 1700	0.2	340
20231207 1710	0.1	81
20231207 1720	0.1	127
20231207 1730	0.1	50
20231207 1740	0.1	73
20231207 1750	0.1	48
20231207 1800	0.1	7
20231207 1810	0.1	297
20231207 1820	0.1	8
20231207 1830	0.1	304
20231207 1840	0.1	351
20231207 1850	0.1	340
20231207 1900	0.1	331
20231207 1910	0.1	133
20231207 1920	0.1	83
20231207 1930	0.1	16
20231207 1940	0.1	21
20231207 1950	0.1	66
20231207 2000	0.1	57
20231207 2010	0.1	44
20231207 2020	0.1	37
20231207 2030	0.1	35
20231207 2040	0.1	12
20231207 2050	0.1	52
20231207 2100	0.1	221
20231207 2110	0.1	108
20231207 2120	0.1	33
20231207 2130	0.1	9
20231207 2140	0.1	225
20231207 2150	0.1	153
20231207 2200	0.1	47
20231207 2210	0.1	225
20231207 2220	0.1	73
20231207 2230	0.1	50
20231207 2240	0.1	51
20231207 2250	0.1	59
20231207 2300	0.1	38
20231207 2310	0.1	86
20231207 2320	0.1	98
20231207 2330	0.1	35
20231207 2340	0.1	95
20231207 2350	0.1	36

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231208 0000	0.1	46
20231208 0010	0.1	313
20231208 0020	0.1	48
20231208 0030	0.1	45
20231208 0040	0.1	87
20231208 0050	0.1	221
20231208 0100	0.1	81
20231208 0110	0.1	58
20231208 0120	0.1	257
20231208 0130	0.1	51
20231208 0140	0.1	47
20231208 0150	0.1	165
20231208 0200	0.1	94
20231208 0210	0.1	123
20231208 0220	0.1	95
20231208 0230	0.1	60
20231208 0240	0.1	39
20231208 0250	0.1	196
20231208 0300	0.1	213
20231208 0310	0.1	52
20231208 0320	0.1	52
20231208 0330	0.1	12
20231208 0340	0.1	52
20231208 0350	0.1	97
20231208 0400	0.1	134
20231208 0410	0.1	120
20231208 0420	0.1	179
20231208 0430	0.1	47
20231208 0440	0.1	24
20231208 0450	0.1	67
20231208 0500	0.1	32
20231208 0510	0.1	145
20231208 0520	0.1	52
20231208 0530	0.1	49
20231208 0540	0.1	36
20231208 0550	0.1	82
20231208 0600	0.1	84
20231208 0610	0.1	246
20231208 0620	0.1	252
20231208 0630	0.1	54
20231208 0640	0.1	24
20231208 0650	0.1	125
20231208 0700	0.1	315
20231208 0710	0.1	121
20231208 0720	0.1	181
20231208 0730	0.1	110
20231208 0740	0.1	168
20231208 0750	0.1	270
20231208 0800	0.1	216
20231208 0810	0.1	334
20231208 0820	0.1	203
20231208 0830	0.1	119
20231208 0840	0.1	141
20231208 0850	0.1	154
20231208 0900	0.1	140
20231208 0910	0.1	110
20231208 0920	0.1	153
20231208 0930	0.1	76
20231208 0940	1.5	116
20231208 0950	0.1	349
20231208 1000	0.2	46
20231208 1010	0.1	167
20231208 1020	0.1	194
20231208 1030	0.1	56
20231208 1040	0.3	2
20231208 1050	0.1	76
20231208 1100	0.1	110
20231208 1110	0.1	225
20231208 1120	0.1	284
20231208 1130	0.1	291
20231208 1140	0.4	99
20231208 1150	0.1	331

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231208 1200	0.1	6
20231208 1210	0.1	305
20231208 1220	2.6	10
20231208 1230	0.1	134
20231208 1240	0.1	46
20231208 1250	0.5	2
20231208 1300	0.1	189
20231208 1310	0.2	12
20231208 1320	0.1	220
20231208 1330	6.3	42
20231208 1340	0.1	324
20231208 1350	0.2	63
20231208 1400	0.1	92
20231208 1410	4.8	162
20231208 1420	0.1	82
20231208 1430	0.1	47
20231208 1440	0.2	75
20231208 1450	1.4	37
20231208 1500	0.4	161
20231208 1510	0.2	133
20231208 1520	0.2	114
20231208 1530	0.4	197
20231208 1540	0.3	24
20231208 1550	0.3	131
20231208 1600	1.2	169
20231208 1610	0.2	174
20231208 1620	5.2	143
20231208 1630	0.2	14
20231208 1640	0.1	58
20231208 1650	0.1	83
20231208 1700	0.1	138
20231208 1710	1.4	127
20231208 1720	0.3	120
20231208 1730	0.1	110
20231208 1740	0.1	140
20231208 1750	0.1	105
20231208 1800	0.1	24
20231208 1810	0.1	51
20231208 1820	0.1	37
20231208 1830	0.7	4
20231208 1840	0.1	188
20231208 1850	0.1	105
20231208 1900	0.1	300
20231208 1910	0.1	7
20231208 1920	0.1	53
20231208 1930	0.1	58
20231208 1940	0.1	135
20231208 1950	0.1	350
20231208 2000	0.1	217
20231208 2010	0.1	23
20231208 2020	0.1	59
20231208 2030	0.1	27
20231208 2040	0.2	92
20231208 2050	0.1	276
20231208 2100	0.1	100
20231208 2110	1.3	137
20231208 2120	0.1	267
20231208 2130	0.1	123
20231208 2140	0.1	290
20231208 2150	0.1	71
20231208 2200	0.1	185
20231208 2210	4.2	303
20231208 2220	0.1	240
20231208 2230	1.1	42
20231208 2240	1.9	332
20231208 2250	0.3	110
20231208 2300	0.1	66
20231208 2310	0.6	57
20231208 2320	0.1	56
20231208 2330	1	13
20231208 2340	0.1	14
20231208 2350	0.1	335

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231209 0000	1.5	88
20231209 0010	0.8	0
20231209 0020	0.1	342
20231209 0030	0.1	271
20231209 0030	0.1	118
20231209 0040	0.1	36
20231209 0050	0.4	193
20231209 0100	0.1	34
20231209 0110	0.1	136
20231209 0120	0.1	5
20231209 0130	0.1	99
20231209 0140	0.1	75
20231209 0150	0.1	280
20231209 0200	0.1	50
20231209 0210	0.1	101
20231209 0220	0.1	327
20231209 0230	0.1	96
20231209 0240	0.1	71
20231209 0250	0.4	89
20231209 0300	0.1	47
20231209 0310	0.1	103
20231209 0320	0.1	337
20231209 0330	0.1	14
20231209 0340	0.1	215
20231209 0350	0.1	40
20231209 0400	0.2	88
20231209 0410	0.1	144
20231209 0420	0.1	287
20231209 0430	0.1	116
20231209 0440	0.1	280
20231209 0450	0.1	54
20231209 0500	0.1	27
20231209 0510	0.1	89
20231209 0520	0.1	288
20231209 0530	0.1	97
20231209 0540	0.1	146
20231209 0550	0.1	317
20231209 0600	0.1	70
20231209 0610	0.1	96
20231209 0620	0.1	298
20231209 0630	0.1	54
20231209 0640	0.1	48
20231209 0650	0.1	37
20231209 0700	0.1	91
20231209 0710	0.1	43
20231209 0720	0.1	183
20231209 0730	0.1	220
20231209 0740	0.1	26
20231209 0750	0.1	153
20231209 0800	0.1	67
20231209 0810	0.1	330
20231209 0820	0.2	300
20231209 0830	0.1	103
20231209 0840	0.1	75
20231209 0850	0.1	66
20231209 0900	0.1	115
20231209 0910	0.1	39
20231209 0920	1.6	342
20231209 0930	0.1	62
20231209 0940	0.5	352
20231209 0950	0.7	340
20231209 1000	0.1	130
20231209 1010	1.2	320
20231209 1020	1.6	347
20231209 1030	0.4	45
20231209 1040	1.9	210
20231209 1050	1	24
20231209 1100	0.9	304
20231209 1110	1.1	219
20231209 1120	0.1	330
20231209 1130	0.1	54
20231209 1140	0.5	239

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231209 1200	0.7	50
20231209 1210	0.1	52
20231209 1220	1	72
20231209 1230	1.5	99
20231209 1240	6.6	85
20231209 1250	0.5	120
20231209 1300	0.3	333
20231209 1310	2.4	323
20231209 1320	0.1	203
20231209 1330	0.4	1
20231209 1340	0.1	7
20231209 1350	3	180
20231209 1400	0.1	148
20231209 1410	0.1	342
20231209 1420	0.1	343
20231209 1430	0.6	92
20231209 1440	0.1	155
20231209 1450	2.6	156
20231209 1500	1.4	28
20231209 1510	1.6	30
20231209 1520	0.2	141
20231209 1530	3.2	111
20231209 1540	2.1	151
20231209 1550	0.4	190
20231209 1600	0.1	283
20231209 1610	0.2	75
20231209 1620	1.1	165
20231209 1630	0.1	196
20231209 1640	0.7	100
20231209 1650	0.9	145
20231209 1700	0.1	314
20231209 1710	0.1	230
20231209 1720	0.1	281
20231209 1730	0.1	101
20231209 1740	0.1	91
20231209 1750	0.1	101
20231209 1800	0.4	133
20231209 1810	0.2	150
20231209 1820	0.2	71
20231209 1830	0.3	111
20231209 1840	0.1	91
20231209 1850	1.8	123
20231209 1900	0.2	143
20231209 1910	0.4	196
20231209 1920	0.8	93
20231209 1930	0.3	230
20231209 1940	0.1	177
20231209 1950	0.7	187
20231209 2000	0.1	138
20231209 2010	1.4	121
20231209 2020	2.5	144
20231209 2030	0.2	332
20231209 2040	0.1	21
20231209 2050	0.4	242
20231209 2100	0.4	178
20231209 2110	0.1	7
20231209 2120	1.7	327
20231209 2130	0.2	289
20231209 2140	0.1	0
20231209 2150	1.1	180
20231209 2200	0.1	37
20231209 2210	0.3	171
20231209 2220	0.1	265
20231209 2230	0.7	123
20231209 2240	0.1	77
20231209 2250	0.3	268
20231209 2300	0.1	327
20231209 2310	0.1	188
20231209 2320	0.1	34
20231209 2330	0.2	314
20231209 2340	0.1	334
20231209 2350	0.1	149

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231210 0000	0.2	18
20231210 0010	0.1	298
20231210 0020	0.4	14
20231210 0030	0.4	271
20231210 0030	1.3	0
20231210 0040	0.1	331
20231210 0050	0.1	222
20231210 0100	0.1	234
20231210 0110	0.2	338
20231210 0120	0.4	58
20231210 0130	0.1	339
20231210 0140	1.7	351
20231210 0150	0.2	287
20231210 0200	1.4	325
20231210 0210	0.1	255
20231210 0220	0.5	291
20231210 0230	0.1	68
20231210 0240	0.1	334
20231210 0250	0.1	355
20231210 0300	0.1	173
20231210 0300	0.1	244
20231210 0320	0.1	73
20231210 0330	0.1	190
20231210 0340	0.1	172
20231210 0350	0.1	79
20231210 0400	0.8	356
20231210 0410	0.2	57
20231210 0420	0.1	291
20231210 0430	6	137
20231210 0440	0.1	208
20231210 0450	0.7	278
20231210 0500	0.3	251
20231210 0510	0.1	241
20231210 0520	0.1	353
20231210 0530	0.1	134
20231210 0540	0.1	2
20231210 0550	0.1	247
20231210 0600	0.1	286
20231210 0610	0.1	288
20231210 0620	0.1	284
20231210 0630	0.1	20
20231210 0640	0.1	317
20231210 0650	0.1	36
20231210 0700	0.1	123
20231210 0710	0.4	59
20231210 0720	0.1	72
20231210 0730	0.1	189
20231210 0740	0.7	228
20231210 0750	0.1	125
20231210 0800	0.6	181
20231210 0810	0.1	260
20231210 0820	1.3	336
20231210 0830	0.1	198
20231210 0840	0.3	200
20231210 0850	0.1	45
20231210 0900	0.3	117
20231210 0910	0.1	108
20231210 0920	2.1	126
20231210 0930	2.2	13
20231210 0940	2.5	153
20231210 0950	1.1	121
20231210 1000	0.1	168
20231210 1010	0.2	76
20231210 1020	2.8	87
20231210 1030	0.1	221
20231210 1040	0.4	29
20231210 1050	0.1	333
20231210 1100	0.1	292
20231210 1110	0.1	19
20231210 1120	1.4	100
20231210 1130	0.8	348
20231210 1140	0.1	185

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231210 1200	0.3	343
20231210 1210	2.2	92
20231210 1220	3.4	117
20231210 1230	0.1	326
20231210 1240	0.3	89
20231210 1250	4.9	125
20231210 1300	0.8	69
20231210 1310	0.6	186
20231210 1320	1.5	91
20231210 1330	2.4	112
20231210 1340	0.8	154
20231210 1350	1.9	102
20231210 1400	2.9	113
20231210 1410	1.6	350
20231210 1420	0.1	336
20231210 1430	1	53
20231210 1440	3.5	98
20231210 1450	1.2	16
20231210 1500	1.6	22
20231210 1510	0.1	355
20231210 1520	2.1	124
20231210 1530	0.1	100
20231210 1540	0.1	50
20231210 1550	0.8	49
20231210 1600	0.1	354
20231210 1610	0.1	14
20231210 1620	1.9	177
20231210 1630	0.8	107
20231210 1640	0.1	46
20231210 1650	0.2	315
20231210 1700	0.9	339
20231210 1710	0.1	353
20231210 1720	1.4	301
20231210 1730	0.3	286
20231210 1740	0.1	7
20231210 1750	0.1	25
20231210 1800	0.1	274
20231210 1810	0.1	10
20231210 1820	0.2	85
20231210 1830	0.1	56
20231210 1840	0.7	157
20231210 1850	1.6	20
20231210 1900	0.4	194
20231210 1910	0.1	44
20231210 1920	0.1	248
20231210 1930	0.2	355
20231210 1940	0.3	202
20231210 1950	0.7	78
20231210 2000	0.1	227
20231210 2010	0.9	302
20231210 2020	1.3	298
20231210 2030	3.2	329
20231210 2040	0.1	84
20231210 2050	0.6	287
20231210 2100	2.7	21
20231210 2110	0.1	183
20231210 2120	0.1	55
20231210 2130	0.5	312
20231210 2140	1.6	154
20231210 2150	2.1	330
20231210 2200	2.5	310
20231210 2210	0.1	141
20231210 2220	1	348
20231210 2230	1.8	26
20231210 2240	0.8	350
20231210 2250	0.2	6
20231210 2300	0.1	68
20231210 2310	0.1	288
20231210 2320	0.1	26
20231210 2330	0.1	175
20231210 2340	0.1	189
20231210 2350	0.1	122

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231211 0000	0.1	42
20231211 0010	0.4	179
20231211 0020	0.1	49
20231211 0030	0.1	335
20231211 0030	0.6	102
20231211 0040	0.1	174
20231211 0050	0.1	254
20231211 0100	1.1	81
20231211 0110	0.1	256
20231211 0120	0.1	178
20231211 0130	0.1	142
20231211 0140	0.1	342
20231211 0150	0.1	183
20231211 0200	0.1	64
20231211 0210	0.1	67
20231211 0220	0.1	144
20231211 0230	0.1	53
20231211 0240	0.1	318
20231211 0250	0.1	20
20231211 0300	0.1	104
20231211 0310	0.1	101
20231211 0320	0.2	76
20231211 0330	0.1	344
20231211 0340	0.1	128
20231211 0350	0.1	33
20231211 0400	0.1	181
20231211 0410	0.1	34
20231211 0420	0.1	336
20231211 0430	0.1	67
20231211 0440	0.1	159
20231211 0450	0.1	113
20231211 0500	0.9	24
20231211 0510	0.8	133
20231211 0520	1.2	144
20231211 0530	0.1	99
20231211 0540	0.1	68
20231211 0550	0.1	233
20231211 0600	0.1	46
20231211 0610	0.1	110
20231211 0620	0.1	190
20231211 0630	0.1	93
20231211 0640	0.1	134
20231211 0650	0.1	80
20231211 0700	0.1	328
20231211 0710	0.1	273
20231211 0720	0.1	142
20231211 0730	0.1	86
20231211 0740	0.1	170
20231211 0750	0.1	224
20231211 0800	0.1	212
20231211 0810	0.1	119
20231211 0820	0.1	226
20231211 0830	0.1	278
20231211 0840	0.1	218
20231211 0850	0.1	82
20231211 0900	0.1	113
20231211 0910	2.1	111
20231211 0920	0.1	55
20231211 0930	0.1	33
20231211 0940	0.4	163
20231211 0950	1.1	77
20231211 1000	0.1	191
20231211 1010	0.1	73
20231211 1020	0.2	118
20231211 1030	0.5	226
20231211 1040	0.1	75
20231211 1050	0.1	244
20231211 1100	0.6	216
20231211 1110	5	195
20231211 1120	0.1	251
20231211 1130	0.1	39
20231211 1140	0.7	58

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231211 1200	0.1	62
20231211 1210	0.9	120
20231211 1220	0.8	11
20231211 1230	0.1	100
20231211 1240	0.1	89
20231211 1250	0.1	70
20231211 1300	0.1	174
20231211 1310	0.1	75
20231211 1320	0.1	99
20231211 1330	0.8	217
20231211 1340	0.1	195
20231211 1350	0.5	273
20231211 1400	0.8	201
20231211 1410	1.8	33
20231211 1420	0.1	278
20231211 1430	0.1	193
20231211 1440	0.7	101
20231211 1450	0.1	196
20231211 1500	0.9	87
20231211 1510	1	122
20231211 1520	0.1	104
20231211 1530	0.1	58
20231211 1540	1.1	213
20231211 1550	0.1	189
20231211 1600	0.1	171
20231211 1610	0.1	113
20231211 1620	0.1	111
20231211 1630	0.1	112
20231211 1640	0.1	94
20231211 1650	0.1	183
20231211 1700	0.1	99
20231211 1710	0.1	38
20231211 1720	0.1	97
20231211 1730	0.1	39
20231211 1740	0.1	329
20231211 1750	0.1	45
20231211 1800	0.1	99
20231211 1810	0.1	119
20231211 1820	0.1	82
20231211 1830	0.1	37
20231211 1840	0.1	56
20231211 1850	0.1	57
20231211 1900	0.1	88
20231211 1910	0.1	14
20231211 1920	0.1	98
20231211 1930	0.1	19
20231211 1940	0.1	55
20231211 1950	0.1	56
20231211 2000	0.1	102
20231211 2010	0.1	118
20231211 2020	0.1	118
20231211 2030	0.1	110
20231211 2040	0.1	97
20231211 2050	0.1	46
20231211 2100	0.1	334
20231211 2110	0.1	77
20231211 2120	0.1	77
20231211 2130	0.1	95
20231211 2140	0.1	69
20231211 2150	0.1	73
20231211 2200	0.1	63
20231211 2210	0.1	72
20231211 2220	0.1	72
20231211 2230	0.1	72
20231211 2240	0.1	81
20231211 2250	0.1	64
20231211 2300	0.1	51
20231211 2310	0.1	42
20231211 2320	0.1	50
20231211 2330	0.1	39
20231211 2340	0.1	40
20231211 2350	0.1	43

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231212 0000	0.1	52
20231212 0010	0.1	51
20231212 0020	0.1	57
20231212 0030	0.1	58
20231212 0030	0.1	50
20231212 0040	0.1	59
20231212 0050	0.1	60
20231212 0100	0.1	60
20231212 0110	0.1	70
20231212 0120	0.1	70
20231212 0130	0.1	70
20231212 0140	0.1	70
20231212 0150	0.1	70
20231212 0200	0.1	70
20231212 0210	0.1	70
20231212 0220	0.1	70
20231212 0230	0.1	79
20231212 0240	0.1	79
20231212 0250	0.1	80
20231212 0300	0.1	142
20231212 0310	0.1	141
20231212 0320	0.1	53
20231212 0330	0.1	55
20231212 0340	0.1	46
20231212 0350	0.1	53
20231212 0400	0.1	138
20231212 0410	0.1	258
20231212 0420	0.1	298
20231212 0430	0.1	320
20231212 0440	0.1	38
20231212 0450	0.1	24
20231212 0500	0.1	53
20231212 0510	0.1	86
20231212 0520	0.1	59
20231212 0530	0.1	48
20231212 0540	0.1	36
20231212 0550	0.1	38
20231212 0600	0.1	41
20231212 0610	0.1	66
20231212 0620	0.1	22
20231212 0630	0.1	55
20231212 0640	0.1	57
20231212 0650	0.1	33
20231212 0700	0.1	109
20231212 0710	0.1	272
20231212 0720	0.1	113
20231212 0730	0.1	105
20231212 0740	0.1	191
20231212 0750	0.1	216
20231212 0800	0.1	147
20231212 0810	0.1	162
20231212 0820	0.1	204
20231212 0830	0.1	227
20231212 0840	0.1	307
20231212 0850	0.1	151
20231212 0900	1.1	153
20231212 0910	0.1	132
20231212 0920	0.1	241
20231212 0930	0.1	97
20231212 0940	1.6	87
20231212 0950	0.1	291
20231212 1000	0.1	75
20231212 1010	0.1	322
20231212 1020	1	332
20231212 1030	0.1	281
20231212 1040	0.7	96
20231212 1050	0.1	310
20231212 1100	1.6	71
20231212 1110	0.1	141
20231212 1120	0.2	87
20231212 1130	0.8	135
20231212 1140	0.3	117

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231212 1200	0.2	334
20231212 1210	0.3	163
20231212 1220	1.2	186
20231212 1230	0.8	175
20231212 1240	1.3	166
20231212 1250	0.1	176
20231212 1300	0.1	42
20231212 1310	1	52
20231212 1320	1.1	96
20231212 1330	0.2	43
20231212 1340	0.1	105
20231212 1350	1.7	125
20231212 1400	1	104
20231212 1410	3.7	226
20231212 1420	1.5	71
20231212 1430	0.1	69
20231212 1440	0.1	192
20231212 1450	2.4	116
20231212 1500	0.1	94
20231212 1510	0.6	19
20231212 1520	0.1	216
20231212 1530	0.5	30
20231212 1540	0.1	24
20231212 1550	0.1	36
20231212 1600	0.2	36
20231212 1610	0.2	70
20231212 1620	0.3	343
20231212 1630	0.1	348
20231212 1640	0.1	81
20231212 1650	0.4	89
20231212 1700	0.1	97
20231212 1710	0.1	99
20231212 1720	0.2	152
20231212 1730	1.4	138
20231212 1740	0.1	316
20231212 1750	0.1	3
20231212 1800	1.8	120
20231212 1810	0.1	207
20231212 1820	0.1	69
20231212 1830	0.1	176
20231212 1840	0.1	318
20231212 1850	1.8	53
20231212 1900	0.6	292
20231212 1910	0.1	289
20231212 1920	0.2	133
20231212 1930	0.1	26
20231212 1940	0.1	162
20231212 1950	0.1	135
20231212 2000	0.1	114
20231212 2010	0.1	131
20231212 2020	0.1	298
20231212 2030	0.1	30
20231212 2040	0.1	135
20231212 2050	0.2	133
20231212 2100	0.1	327
20231212 2110	0.3	121
20231212 2120	0.1	150
20231212 2130	0.1	101
20231212 2140	0.1	159
20231212 2150	0.1	111
20231212 2200	0.1	142
20231212 2210	0.2	152
20231212 2220	0.4	44
20231212 2230	0.1	156
20231212 2240	0.1	53
20231212 2250	0.1	125
20231212 2300	0.1	171
20231212 2310	0.1	133
20231212 2320	0.1	149
20231212 2330	0.1	120
20231212 2340	0.1	73
20231212 2350	0.1	85

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231213 0000	0.1	122
20231213 0010	0.6	61
20231213 0020	0.1	290
20231213 0030	0.2	285
20231213 0040	0.1	172
20231213 0050	0.1	236
20231213 0100	0.1	204
20231213 0110	0.1	234
20231213 0120	0.2	129
20231213 0130	1.3	17
20231213 0140	0.9	14
20231213 0150	0.6	131
20231213 0200	1.2	50
20231213 0210	0.1	235
20231213 0220	0.1	148
20231213 0230	0.1	125
20231213 0240	0.1	86
20231213 0250	0.1	132
20231213 0300	0.1	112
20231213 0310	0.1	147
20231213 0320	0.1	151
20231213 0330	0.1	143
20231213 0340	0.1	153
20231213 0350	0.1	155
20231213 0400	0.1	42
20231213 0410	0.1	95
20231213 0420	0.1	257
20231213 0430	0.1	232
20231213 0440	0.1	183
20231213 0450	0.1	273
20231213 0500	0.1	43
20231213 0510	0.1	6
20231213 0520	0.1	164
20231213 0530	0.1	12
20231213 0540	0.1	62
20231213 0550	0.1	148
20231213 0600	0.1	321
20231213 0610	0.1	97
20231213 0620	0.2	140
20231213 0630	0.1	111
20231213 0640	0.2	8
20231213 0650	0.2	87
20231213 0700	0.1	147
20231213 0710	0.8	92
20231213 0720	0.1	126
20231213 0730	0.1	283
20231213 0740	0.1	165
20231213 0750	0.1	112
20231213 0800	0.1	12
20231213 0810	0.1	66
20231213 0820	0.1	123
20231213 0830	0.6	336
20231213 0840	0.1	332
20231213 0850	0.1	344
20231213 0900	0.2	90
20231213 0910	1	84
20231213 0920	0.1	86
20231213 0930	0.1	34
20231213 0940	0.1	170
20231213 0950	0.2	340
20231213 1000	0.6	101
20231213 1010	0.1	107
20231213 1020	0.2	96
20231213 1030	0.3	24
20231213 1040	0.1	91
20231213 1050	0.1	335
20231213 1100	0.1	76
20231213 1110	0.1	343
20231213 1120	1.5	38
20231213 1130	0.9	52
20231213 1140	1	331
20231213 1150	0.2	27

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231213 1200	0.1	351
20231213 1210	0.1	69
20231213 1220	0.1	301
20231213 1230	0.1	114
20231213 1240	0.1	348
20231213 1250	0.1	147
20231213 1300	0.1	123
20231213 1310	0.8	151
20231213 1320	0.2	267
20231213 1330	0.8	337
20231213 1340	0.2	356
20231213 1350	3	39
20231213 1400	2.3	317
20231213 1410	0.2	88
20231213 1420	0.9	1
20231213 1430	0.2	182
20231213 1440	0.1	308
20231213 1450	2.8	46
20231213 1500	0.1	312
20231213 1510	0.1	44
20231213 1520	0.3	9
20231213 1530	0.2	294
20231213 1540	1.2	20
20231213 1550	0.1	51
20231213 1600	0.8	84
20231213 1610	0.2	348
20231213 1620	0.5	294
20231213 1630	0.1	341
20231213 1640	0.1	299
20231213 1650	0.5	347
20231213 1700	1.8	72
20231213 1710	0.1	314
20231213 1720	0.1	6
20231213 1730	0.1	204
20231213 1740	0.6	344
20231213 1750	0.1	92
20231213 1800	0.1	105
20231213 1810	1.1	118
20231213 1820	0.1	311
20231213 1830	0.2	4
20231213 1840	0.3	84
20231213 1850	0.6	124
20231213 1900	0.2	334
20231213 1910	0.1	41
20231213 1920	0.1	72
20231213 1930	0.1	203
20231213 1940	0.1	215
20231213 1950	0.1	87
20231213 2000	0.1	62
20231213 2010	0.1	83
20231213 2020	0.1	152
20231213 2030	0.1	161
20231213 2040	1	102
20231213 2050	0.4	98
20231213 2100	0.1	38
20231213 2110	0.3	3
20231213 2120	3.5	42
20231213 2130	0.1	148
20231213 2140	0.1	60
20231213 2150	0.3	125
20231213 2200	0.1	314
20231213 2210	0.1	96
20231213 2220	0.3	114
20231213 2230	0.1	142
20231213 2240	0.1	329
20231213 2250	0.1	121
20231213 2300	1.3	13
20231213 2310	0.1	305
20231213 2320	0.2	83
20231213 2330	0.2	194
20231213 2340	0.2	310
20231213 2350	2.2	138

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231214 0000	0.7	308
20231214 0010	0.1	106
20231214 0020	0.1	111
20231214 0020	0.1	208
20231214 0030	0.1	308
20231214 0040	0.1	144
20231214 0050	0.1	186
20231214 0100	0.1	79
20231214 0110	0.1	165
20231214 0120	0.1	84
20231214 0130	0.1	319
20231214 0140	0.1	261
20231214 0150	0.1	20
20231214 0200	0.1	70
20231214 0210	0.1	180
20231214 0220	0.1	180
20231214 0230	0.1	49
20231214 0240	0.1	254
20231214 0250	0.1	80
20231214 0300	0.1	54
20231214 0310	0.1	207
20231214 0320	0.1	193
20231214 0330	0.1	129
20231214 0340	0.1	126
20231214 0350	0.1	75
20231214 0400	0.1	112
20231214 0410	0.5	25
20231214 0420	0.2	145
20231214 0430	0.1	172
20231214 0440	0.1	200
20231214 0450	0.1	146
20231214 0500	0.1	172
20231214 0510	0.1	28
20231214 0520	0.1	340
20231214 0530	3.3	106
20231214 0540	0.1	350
20231214 0550	0.1	335
20231214 0600	0.8	21
20231214 0610	0.1	104
20231214 0620	0.1	223
20231214 0630	0.1	153
20231214 0640	0.9	140
20231214 0650	0.1	210
20231214 0700	0.1	206
20231214 0710	0.1	190
20231214 0720	0.3	114
20231214 0730	0.1	339
20231214 0740	0.6	139
20231214 0750	0.3	132
20231214 0800	0.1	132
20231214 0810	0.1	201
20231214 0820	0.1	95
20231214 0830	0.3	158
20231214 0840	0.5	202
20231214 0850	0.1	95
20231214 0900	0.4	99
20231214 0910	0.4	114
20231214 0920	0.1	108
20231214 0930	1	342
20231214 0940	0.1	56
20231214 0950	0.1	28
20231214 1000	0.8	338
20231214 1010	0.1	258
20231214 1020	0.1	76
20231214 1030	0.1	69
20231214 1040	0.1	90
20231214 1050	1.2	150
20231214 1100	0.1	245
20231214 1110	0.4	13
20231214 1120	0.1	329
20231214 1130	0.1	355
20231214 1140	0.2	24

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231214 1200	0.4	50
20231214 1210	0.5	83
20231214 1220	0.1	319
20231214 1230	0.1	178
20231214 1240	0.7	106
20231214 1250	0.1	237
20231214 1300	0.1	145
20231214 1310	0.8	226
20231214 1320	0.2	124
20231214 1330	0.1	325
20231214 1340	0.2	2
20231214 1350	0.8	210
20231214 1400	1.6	208
20231214 1410	2	100
20231214 1420	0.3	43
20231214 1430	0.1	338
20231214 1440	0.1	256
20231214 1450	1.1	73
20231214 1500	0.9	133
20231214 1510	0.3	192
20231214 1520	1.7	107
20231214 1530	1	335
20231214 1540	0.1	93
20231214 1550	0.1	150
20231214 1600	0.1	129
20231214 1610	0.1	43
20231214 1620	0.1	112
20231214 1630	0.1	53
20231214 1640	0.1	229
20231214 1650	0.1	151
20231214 1700	0.1	130
20231214 1710	0.1	206
20231214 1720	0.5	345
20231214 1730	0.6	60
20231214 1740	0.1	82
20231214 1750	0.2	190
20231214 1800	0.1	201
20231214 1810	0.1	96
20231214 1820	0.1	292
20231214 1830	0.6	145
20231214 1840	0.1	242
20231214 1850	0.6	117
20231214 1900	0.1	116
20231214 1910	0.1	351
20231214 1920	0.1	81
20231214 1930	0.1	209
20231214 1940	0.4	147
20231214 1950	0.1	89
20231214 2000	0.2	89
20231214 2010	0.1	47
20231214 2020	1.4	149
20231214 2030	0.7	275
20231214 2040	0.5	129
20231214 2050	0.1	84
20231214 2100	0.1	173
20231214 2110	0.1	221
20231214 2120	0.4	107
20231214 2130	0.1	31
20231214 2140	0.1	320
20231214 2150	0.2	95
20231214 2200	1.9	147
20231214 2210	2.3	276
20231214 2220	0.1	96
20231214 2230	0.2	150
20231214 2240	0.1	94
20231214 2250	0.1	115
20231214 2300	0.2	183
20231214 2310	0.1	111
20231214 2320	0.3	155
20231214 2330	0.1	149
20231214 2340	0.1	187
20231214 2350	0.1	313

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231215 0000	0.5	151
20231215 0010	0.1	198
20231215 0020	0.5	129
20231215 0020	0.5	134
20231215 0030	3.3	161
20231215 0040	1.3	84
20231215 0050	0.1	187
20231215 0100	0.6	127
20231215 0110	0.1	214
20231215 0120	0.1	21
20231215 0130	0.1	59
20231215 0140	0.1	285
20231215 0150	0.1	335
20231215 0200	0.1	209
20231215 0210	0.1	72
20231215 0220	0.1	343
20231215 0230	0.1	129
20231215 0240	0.1	129
20231215 0250	0.1	95
20231215 0300	0.1	147
20231215 0310	0.1	160
20231215 0320	0.1	50
20231215 0330	0.1	182
20231215 0340	0.1	74
20231215 0350	0.1	49
20231215 0400	0.1	20
20231215 0410	0.1	70
20231215 0420	0.1	65
20231215 0430	0.1	18
20231215 0440	0.1	196
20231215 0450	0.1	126
20231215 0500	0.1	329
20231215 0510	1	93
20231215 0520	0.5	341
20231215 0530	0.6	125
20231215 0540	0.1	216
20231215 0550	1.6	192
20231215 0600	2.5	20
20231215 0610	0.1	337
20231215 0620	1	350
20231215 0630	0.1	138
20231215 0640	0.2	135
20231215 0650	0.7	70
20231215 0700	0.1	307
20231215 0710	0.2	314
20231215 0720	0.1	136
20231215 0730	0.2	109
20231215 0740	0.3	342
20231215 0750	0.1	122
20231215 0800	0.1	5
20231215 0810	0.1	313
20231215 0820	0.5	111
20231215 0830	0.6	10
20231215 0840	0.2	103
20231215 0850	1.5	321
20231215 0900	0.3	79
20231215 0910	1.5	126
20231215 0920	0.1	139
20231215 0930	0.1	181
20231215 0940	3.1	2
20231215 0950	1.2	337
20231215 1000	3.3	196
20231215 1010	1.8	124
20231215 1020	1	342
20231215 1030	0.6	328
20231215 1040	2.3	42
20231215 1050	1.8	328
20231215 1100	1.5	340
20231215 1110	1.4	66
20231215 1120	0.7	67
20231215 1130	0.3	32
20231215 1140	0.1	7

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231215 1200	0.5	302
20231215 1210	0.1	313
20231215 1220	2.1	103
20231215 1230	2.3	108
20231215 1240	2.6	121
20231215 1250	0.8	154
20231215 1300	0.5	219
20231215 1310	0.1	165
20231215 1320	2.9	114
20231215 1330	3	97
20231215 1340	1	172
20231215 1350	0.5	74
20231215 1400	1.3	327
20231215 1410	1.1	170
20231215 1420	3.2	99
20231215 1430	6.1	115
20231215 1440	0.3	26
20231215 1450	0.1	61
20231215 1500	0.5	134
20231215 1510	0.8	51
20231215 1520	0.1	61
20231215 1530	0.1	354
20231215 1540	0.2	132
20231215 1550	0.2	116
20231215 1600	0.1	78
20231215 1610	0.5	307
20231215 1620	0.6	57
20231215 1630	0.1	215
20231215 1640	0.1	113
20231215 1650	0.1	175
20231215 1700	0.3	104
20231215 1710	1.3	163
20231215 1720	0.1	218
20231215 1730	0.1	165
20231215 1740	0.1	108
20231215 1750	0.2	330
20231215 1800	0.1	178
20231215 1810	0.1	264
20231215 1820	0.1	343
20231215 1830	0.2	281
20231215 1840	0.1	296
20231215 1850	1	291
20231215 1900	0.4	312
20231215 1910	0.1	194
20231215 1920	0.1	114
20231215 1930	0.5	261
20231215 1940	0.1	157
20231215 1950	0.1	90
20231215 2000	0.1	355
20231215 2010	2.4	332
20231215 2020	0.8	153
20231215 2030	1.9	332
20231215 2040	0.1	11
20231215 2050	0.2	301
20231215 2100	0.5	283
20231215 2110	0.1	0
20231215 2120	0.1	15
20231215 2130	0.3	92
20231215 2140	0.2	338
20231215 2150	0.1	330
20231215 2200	0.1	307
20231215 2210	1.1	107
20231215 2220	0.1	263
20231215 2230	0.1	331
20231215 2240	0.5	353
20231215 2250	0.4	316
20231215 2300	0.1	134
20231215 2310	0.1	346
20231215 2320	0.1	117
20231215 2330	0.1	180
20231215 2340	0.1	204
20231215 2350	0.1	151

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231216 0000	0.1	8
20231216 0010	0.1	22
20231216 0020	0.1	250
20231216 0020	0.1	163
20231216 0030	0.1	78
20231216 0040	0.1	138
20231216 0050	1.6	155
20231216 0100	0.1	303
20231216 0110	0.1	115
20231216 0120	0.1	87
20231216 0130	0.1	98
20231216 0140	0.1	114
20231216 0150	0.1	101
20231216 0200	0.1	145
20231216 0210	0.1	111
20231216 0220	0.1	195
20231216 0230	0.1	82
20231216 0240	0.1	63
20231216 0250	0.1	50
20231216 0300	0.1	98
20231216 0310	0.5	99
20231216 0320	0.1	282
20231216 0330	0.1	77
20231216 0340	0.1	98
20231216 0350	0.1	109
20231216 0400	0.1	110
20231216 0410	0.1	83
20231216 0420	0.1	138
20231216 0430	0.1	46
20231216 0440	0.1	101
20231216 0450	0.1	299
20231216 0500	0.1	140
20231216 0510	0.1	166
20231216 0520	0.1	174
20231216 0530	0.1	96
20231216 0540	0.1	312
20231216 0550	0.1	294
20231216 0600	1.3	344
20231216 0610	0.1	289
20231216 0620	0.1	215
20231216 0630	0.4	118
20231216 0640	0.3	255
20231216 0650	0.2	291
20231216 0700	1.7	294
20231216 0710	0.1	323
20231216 0720	0.1	282
20231216 0730	1.8	300
20231216 0740	3.5	329
20231216 0750	5.3	245
20231216 0800	0.9	349
20231216 0810	0.6	281
20231216 0820	0.4	341
20231216 0830	7.4	300
20231216 0840	2.7	343
20231216 0850	4	311
20231216 0900	0.6	340
20231216 0910	1.9	278
20231216 0920	4.3	340
20231216 0930	0.4	66
20231216 0940	4.9	329
20231216 0950	0.4	343
20231216 1000	3.2	326
20231216 1010	6.5	7
20231216 1020	0.2	265
20231216 1030	0.1	28
20231216 1040	1.8	53
20231216 1050	0.7	38
20231216 1100	1.7	341
20231216 1110	4.2	342
20231216 1120	3.6	333
20231216 1130	5.1	318
20231216 1140	0.7	37

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231216 1200	1.4	256
20231216 1210	0.5	129
20231216 1220	0.5	342
20231216 1230	1.3	345
20231216 1240	0.4	175
20231216 1250	3.3	7
20231216 1300	1.2	308
20231216 1310	2.6	354
20231216 1320	9.4	324
20231216 1330	2.9	99
20231216 1340	2.1	47
20231216 1350	1.4	346
20231216 1400	0.1	293
20231216 1410	1.2	40
20231216 1420	1.9	341
20231216 1430	0.1	348
20231216 1440	2.2	99
20231216 1450	3	309
20231216 1500	0.6	314
20231216 1510	1.3	279
20231216 1520	0.1	22
20231216 1530	0.1	154
20231216 1540	0.1	356
20231216 1550	0.1	23
20231216 1600	1.4	324
20231216 1610	0.5	310
20231216 1620	1.8	287
20231216 1630	2.9	291
20231216 1640	0.2	13
20231216 1650	0.3	331
20231216 1700	0.2	340
20231216 1710	0.1	325
20231216 1720	0.2	302
20231216 1730	2.7	37
20231216 1740	0.2	3
20231216 1750	2.5	332
20231216 1800	0.2	355
20231216 1810	0.1	355
20231216 1820	0.3	95
20231216 1830	1.5	229
20231216 1840	0.8	335
20231216 1850	0.9	326
20231216 1900	0.1	10
20231216 1910	0.2	66
20231216 1920	0.1	42
20231216 1930	1	324
20231216 1940	0.4	310
20231216 1950	0.1	64
20231216 2000	0.5	286
20231216 2010	0.3	10
20231216 2020	0.3	20
20231216 2030	0.2	286
20231216 2040	1.1	330
20231216 2050	0.5	87
20231216 2100	0.5	303
20231216 2110	3.2	321
20231216 2120	0.1	311
20231216 2130	0.3	324
20231216 2140	0.2	37
20231216 2150	4	296
20231216 2200	0.1	34
20231216 2210	2.5	323
20231216 2220	0.3	274
20231216 2230	0.1	86
20231216 2240	5.2	303
20231216 2250	0.1	281
20231216 2300	2.8	318
20231216 2310	0.1	51
20231216 2320	0.1	31
20231216 2330	1.2	335
20231216 2340	0.2	337
20231216 2350	1.1	340

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231217 0000	0.1	222
20231217 0010	0.1	312
20231217 0020	3.4	338
20231217 0030	0.1	338
20231217 0040	0.7	25
20231217 0050	0.2	16
20231217 0100	0.8	287
20231217 0110	0.5	70
20231217 0120	0.1	350
20231217 0130	0.3	325
20231217 0140	1.9	13
20231217 0150	2.5	7
20231217 0200	4.7	341
20231217 0210	0.7	9
20231217 0220	0.1	284
20231217 0230	0.1	13
20231217 0240	0.1	28
20231217 0250	0.2	53
20231217 0300	1.2	340
20231217 0310	1.3	316
20231217 0320	2	327
20231217 0330	0.1	0
20231217 0340	0.1	157
20231217 0350	0.1	20
20231217 0400	0.5	312
20231217 0410	0.1	45
20231217 0420	1.4	30
20231217 0430	0.4	347
20231217 0440	1.6	96
20231217 0450	0.1	279
20231217 0500	0.1	256
20231217 0510	1.5	5
20231217 0520	0.1	297
20231217 0530	0.2	338
20231217 0540	0.1	35
20231217 0550	0.2	302
20231217 0600	0.3	315
20231217 0610	1.8	335
20231217 0620	0.1	19
20231217 0630	0.4	6
20231217 0640	0.1	7
20231217 0650	3	327
20231217 0700	3.8	309
20231217 0710	0.5	328
20231217 0720	0.7	0
20231217 0730	0.1	147
20231217 0740	0.1	29
20231217 0750	1.1	295
20231217 0800	0.1	348
20231217 0810	0.2	29
20231217 0820	0.1	305
20231217 0830	0.1	26
20231217 0840	0.1	316
20231217 0850	1.2	43
20231217 0900	0.1	248
20231217 0910	0.1	38
20231217 0920	0.1	17
20231217 0930	0.1	229
20231217 0940	0.1	328
20231217 0950	0.1	124
20231217 1000	0.1	282
20231217 1010	0.1	240
20231217 1020	1.4	328
20231217 1030	0.1	80
20231217 1040	1.5	90
20231217 1050	0.5	314
20231217 1100	0.2	70
20231217 1110	0.1	10
20231217 1120	5.8	61
20231217 1130	0.2	86
20231217 1140	1.3	44
20231217 1150	0.4	37

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231217 1200	1.2	104
20231217 1210	2.2	176
20231217 1220	0.1	165
20231217 1230	0.1	301
20231217 1240	0.3	99
20231217 1250	0.1	97
20231217 1300	0.2	40
20231217 1310	0.4	257
20231217 1320	0.4	50
20231217 1330	0.3	77
20231217 1340	0.1	60
20231217 1350	0.2	313
20231217 1400	0.1	202
20231217 1410	0.1	351
20231217 1420	0.1	298
20231217 1430	0.2	316
20231217 1440	0.8	38
20231217 1450	0.2	307
20231217 1500	0.1	49
20231217 1510	0.7	302
20231217 1520	0.3	42
20231217 1530	0.1	274
20231217 1540	0.8	41
20231217 1550	0.5	338
20231217 1600	0.1	39
20231217 1610	0.1	297
20231217 1620	0.2	280
20231217 1630	0.1	236
20231217 1640	0.1	2
20231217 1650	0.5	336
20231217 1700	0.2	57
20231217 1710	0.1	60
20231217 1720	0.1	272
20231217 1730	0.1	338
20231217 1740	0.9	280
20231217 1750	0.4	20
20231217 1800	0.1	15
20231217 1810	1	296
20231217 1820	0.5	297
20231217 1830	0.2	308
20231217 1840	0.1	313
20231217 1850	0.1	111
20231217 1900	0.1	52
20231217 1910	0.1	245
20231217 1920	0.1	97
20231217 1930	0.1	331
20231217 1940	0.1	51
20231217 1950	0.2	294
20231217 2000	0.1	334
20231217 2010	0.1	306
20231217 2020	0.1	314
20231217 2030	0.1	303
20231217 2040	0.1	157
20231217 2050	0.1	146
20231217 2100	0.2	324
20231217 2110	0.1	151
20231217 2120	0.1	135
20231217 2130	0.1	138
20231217 2140	0.2	120
20231217 2150	0.1	176
20231217 2200	0.1	115
20231217 2210	0.1	192
20231217 2220	0.1	125
20231217 2230	0.1	148
20231217 2240	0.1	219
20231217 2250	0.1	275
20231217 2300	0.1	131
20231217 2310	0.1	207
20231217 2320	0.1	108
20231217 2330	0.1	129
20231217 2340	0.1	152
20231217 2350	0.1	216

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231218 0000	0.1	171
20231218 0010	0.1	100
20231218 0020	0.1	164
20231218 0030	0.2	162
20231218 0040	0.1	172
20231218 0050	0.1	133
20231218 0100	0.1	145
20231218 0110	0.1	133
20231218 0120	0.1	130
20231218 0130	0.1	50
20231218 0140	0.1	263
20231218 0150	0.1	110
20231218 0200	0.1	156
20231218 0210	0.3	101
20231218 0220	0.1	139
20231218 0230	0.1	164
20231218 0240	0.1	277
20231218 0250	0.1	86
20231218 0300	0.1	131
20231218 0310	0.1	138
20231218 0320	0.1	175
20231218 0330	0.1	115
20231218 0340	0.1	154
20231218 0350	0.1	214
20231218 0400	0.6	172
20231218 0410	0.1	17
20231218 0420	0.1	234
20231218 0430	0.4	134
20231218 0440	0.1	161
20231218 0450	0.1	241
20231218 0500	0.1	174
20231218 0510	0.1	228
20231218 0520	0.1	91
20231218 0530	0.4	312
20231218 0540	0.1	133
20231218 0550	0.1	288
20231218 0600	0.1	154
20231218 0610	0.1	139
20231218 0620	0.1	127
20231218 0630	0.5	153
20231218 0640	0.1	202
20231218 0650	0.1	114
20231218 0700	0.1	64
20231218 0710	0.1	315
20231218 0720	0.2	349
20231218 0730	0.1	342
20231218 0740	0.1	104
20231218 0750	0.1	348
20231218 0800	0.2	3
20231218 0810	0.1	58
20231218 0820	0.1	275
20231218 0830	0.1	310
20231218 0840	0.1	140
20231218 0850	0.1	139
20231218 0900	0.1	191
20231218 0910	0.1	173
20231218 0920	0.6	304
20231218 0930	0.1	323
20231218 0940	0.1	321
20231218 0950	0.1	307
20231218 1000	0.1	198
20231218 1010	0.1	348
20231218 1020	0.1	279
20231218 1030	0.1	318
20231218 1040	0.5	327
20231218 1050	0.1	250
20231218 1100	0.1	190
20231218 1110	0.1	253
20231218 1120	0.1	244
20231218 1130	0.1	285
20231218 1140	0.1	208
20231218 1150	0.1	215

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231218 1200	0.1	75
20231218 1210	0.3	110
20231218 1220	0.1	46
20231218 1230	0.1	58
20231218 1240	0.1	325
20231218 1250	0.1	217
20231218 1300	0.1	215
20231218 1310	0.1	262
20231218 1320	0.1	120
20231218 1330	0.1	93
20231218 1340	0.5	125
20231218 1350	0.1	34
20231218 1400	0.2	137
20231218 1410	0.1	76
20231218 1420	0.1	249
20231218 1430	0.1	322
20231218 1440	0.1	189
20231218 1450	0.1	263
20231218 1500	0.1	27
20231218 1510	0.1	258
20231218 1520	0.1	176
20231218 1530	0.1	145
20231218 1540	0.1	284
20231218 1550	0.1	162
20231218 1600	0.1	227
20231218 1610	0.1	44
20231218 1620	0.1	199
20231218 1630	0.1	199
20231218 1640	0.1	91
20231218 1650	0.1	98
20231218 1700	0.1	166
20231218 1710	0.1	57
20231218 1720	0.1	198
20231218 1730	0.1	228
20231218 1740	0.1	242
20231218 1750	0.1	118
20231218 1800	0.1	233
20231218 1810	0.1	143
20231218 1820	0.1	102
20231218 1830	0.1	145
20231218 1840	0.1	88
20231218 1850	0.1	221
20231218 1900	0.1	148
20231218 1910	0.1	180
20231218 1920	0.1	103
20231218 1930	0.1	140
20231218 1940	0.1	75
20231218 1950	0.1	129
20231218 2000	0.1	237
20231218 2010	0.1	122
20231218 2020	0.1	120
20231218 2030	0.1	54
20231218 2040	0.1	125
20231218 2050	0.1	26
20231218 2100	0.1	301
20231218 2110	0.1	103
20231218 2120	0.1	86
20231218 2130	0.1	57
20231218 2140	0.1	147
20231218 2150	0.1	128
20231218 2200	0.1	131
20231218 2210	0.1	187
20231218 2220	0.1	216
20231218 2230	0.1	262
20231218 2240	0.1	240
20231218 2250	0.1	305
20231218 2300	0.1	101
20231218 2310	0.1	87
20231218 2320	0.1	212
20231218 2330	0.1	147
20231218 2340	0.1	123
20231218 2350	0.1	237

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231219 0000	0.1	148
20231219 0010	0.1	340
20231219 0020	0.1	148
20231219 0030	0.1	204
20231219 0040	0.1	155
20231219 0050	0.1	337
20231219 0100	0.1	150
20231219 0110	0.1	161
20231219 0120	0.3	155
20231219 0130	0.1	147
20231219 0140	0.1	155
20231219 0150	0.1	196
20231219 0200	0.2	141
20231219 0210	0.1	147
20231219 0220	0.1	186
20231219 0230	0.1	220
20231219 0240	1.4	249
20231219 0250	0.2	268
20231219 0300	0.1	167
20231219 0310	0.1	221
20231219 0320	0.4	150
20231219 0330	0.8	132
20231219 0340	0.1	184
20231219 0350	0.2	122
20231219 0400	1.9	153
20231219 0410	0.2	104
20231219 0420	0.1	159
20231219 0430	0.4	140
20231219 0440	0.1	154
20231219 0450	1.4	129
20231219 0500	0.3	197
20231219 0510	1.1	134
20231219 0520	0.2	156
20231219 0530	0.4	129
20231219 0540	0.3	138
20231219 0550	0.1	156
20231219 0600	0.1	93
20231219 0610	0.2	106
20231219 0620	1.2	69
20231219 0630	0.1	158
20231219 0640	0.1	71
20231219 0650	0.6	95
20231219 0700	0.1	98
20231219 0710	0.3	165
20231219 0720	0.1	144
20231219 0730	0.8	108
20231219 0740	0.1	0
20231219 0750	0.1	159
20231219 0800	0.1	91
20231219 0810	4.2	343
20231219 0820	0.6	74
20231219 0830	0.1	265
20231219 0840	0.1	145
20231219 0850	0.1	87
20231219 0900	0.2	53
20231219 0910	0.3	40
20231219 0920	0.1	233
20231219 0930	0.1	218
20231219 0940	0.1	154
20231219 0950	0.1	317
20231219 1000	0.1	205
20231219 1010	0.1	152
20231219 1020	0.1	345
20231219 1030	1.1	166
20231219 1040	1.5	148
20231219 1050	0.9	74
20231219 1100	3	114
20231219 1110	0.2	98
20231219 1120	0.1	313
20231219 1130	1.8	139
20231219 1140	2.2	170
20231219 1150	0.1	134

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231219 1200	0.3	118
20231219 1210	0.2	88
20231219 1220	0.2	240
20231219 1230	0.1	75
20231219 1240	0.1	278
20231219 1250	0.1	328
20231219 1300	0.1	206
20231219 1310	0.2	304
20231219 1320	0.2	113
20231219 1330	0.7	145
20231219 1340	0.1	338
20231219 1350	0.8	109
20231219 1400	1.9	100
20231219 1410	1.3	287
20231219 1420	2	127
20231219 1430	3	159
20231219 1440	3.9	136
20231219 1450	0.3	156
20231219 1500	0.1	248
20231219 1510	0.4	100
20231219 1520	0.2	185
20231219 1530	1.3	186
20231219 1540	0.2	150
20231219 1550	0.1	200
20231219 1600	0.1	322
20231219 1610	1.2	71
20231219 1620	0.1	258
20231219 1630	0.3	231
20231219 1640	0.1	149
20231219 1650	0.1	51
20231219 1700	0.1	100
20231219 1710	0.1	265
20231219 1720	0.1	192
20231219 1730	0.2	318
20231219 1740	0.3	152
20231219 1750	0.1	141
20231219 1800	1.5	62
20231219 1810	0.1	185
20231219 1820	0.3	115
20231219 1830	0.1	345
20231219 1840	0.1	89
20231219 1850	0.1	46
20231219 1900	0.1	5
20231219 1910	0.1	319
20231219 1920	0.1	290
20231219 1930	0.2	311
20231219 1940	0.1	332
20231219 1950	0.1	89
20231219 2000	0.5	81
20231219 2010	0.1	46
20231219 2020	0.4	25
20231219 2030	0.2	64
20231219 2040	0.1	238
20231219 2050	1.7	321
20231219 2100	0.1	149
20231219 2110	0.1	82
20231219 2120	0.2	336
20231219 2130	1.8	336
20231219 2140	0.1	111
20231219 2150	0.1	145
20231219 2200	0.1	15
20231219 2210	0.1	347
20231219 2220	1.2	317
20231219 2230	0.1	353
20231219 2240	0.1	344
20231219 2250	0.4	71
20231219 2300	0.1	313
20231219 2310	0.1	269
20231219 2320	0.1	272
20231219 2330	1	8
20231219 2340	0.4	18
20231219 2350	0.2	355

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231220 0000	4.8	338
20231220 0010	0.1	342
20231220 0020	0.1	318
20231220 0030	2.5	1
20231220 0040	0.2	349
20231220 0050	0.2	271
20231220 0100	0.1	314
20231220 0110	0.7	298
20231220 0120	0.8	116
20231220 0130	1.9	5
20231220 0140	4.2	325
20231220 0150	1.3	74
20231220 0200	0.8	294
20231220 0210	0.1	53
20231220 0220	5	1
20231220 0230	0.1	37
20231220 0240	0.2	286
20231220 0250	0.1	95
20231220 0300	1.3	22
20231220 0310	0.5	215
20231220 0320	2.7	345
20231220 0330	1.2	349
20231220 0340	0.1	69
20231220 0350	0.9	331
20231220 0400	0.5	348
20231220 0410	0.6	306
20231220 0420	4.5	61
20231220 0430	1.4	294
20231220 0440	0.2	345
20231220 0450	2.5	311
20231220 0500	2.3	298
20231220 0510	1.5	63
20231220 0520	0.2	330
20231220 0530	0.4	348
20231220 0540	0.2	307
20231220 0550	0.2	72
20231220 0600	0.3	86
20231220 0610	0.1	350
20231220 0620	2.1	343
20231220 0630	0.2	322
20231220 0640	0.2	336
20231220 0650	1.6	79
20231220 0700	2.5	343
20231220 0710	1.8	59
20231220 0720	0.1	323
20231220 0730	0.1	294
20231220 0740	0.1	108
20231220 0750	0.1	93
20231220 0800	0.1	354
20231220 0810	0.1	71
20231220 0820	0.3	48
20231220 0830	0.7	8
20231220 0840	0.1	217
20231220 0850	2.9	313
20231220 0900	0.4	2
20231220 0910	0.5	66
20231220 0920	2.2	32
20231220 0930	0.3	53
20231220 0940	0.4	279
20231220 0950	0.1	131
20231220 1000	0.1	3
20231220 1010	0.2	47
20231220 1020	0.4	26
20231220 1030	0.4	24
20231220 1040	4	309
20231220 1050	1.8	325
20231220 1100	1.1	336
20231220 1110	2.9	316
20231220 1120	0.1	322
20231220 1130	0.8	282
20231220 1140	0.3	20
20231220 1150	0.1	63

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231220 1200	0.3	240
20231220 1210	0.9	265
20231220 1220	4.4	312
20231220 1230	0.2	227
20231220 1240	1.3	356
20231220 1250	1.6	55
20231220 1300	1.5	338
20231220 1310	0.1	193
20231220 1320	1.5	305
20231220 1330	0.3	30
20231220 1340	0.1	19
20231220 1350	1.8	23
20231220 1400	0.1	338
20231220 1410	0.2	137
20231220 1420	0.5	95
20231220 1430	0.2	39
20231220 1440	0.1	119
20231220 1450	1.2	289
20231220 1500	0.2	165
20231220 1510	0.6	309
20231220 1520	0.2	150
20231220 1530	0.6	260
20231220 1540	1.4	336
20231220 1550	0.1	343
20231220 1600	3.8	341
20231220 1610	0.4	9
20231220 1620	0.5	316
20231220 1630	6.7	314
20231220 1640	0.1	336
20231220 1650	0.1	171
20231220 1700	5.4	310
20231220 1710	0.1	319
20231220 1720	1.3	34
20231220 1730	0.1	127
20231220 1740	0.1	20
20231220 1750	0.4	35
20231220 1800	0.2	64
20231220 1810	0.1	352
20231220 1820	0.9	36
20231220 1830	0.1	326
20231220 1840	0.1	286
20231220 1850	0.2	324
20231220 1900	0.1	284
20231220 1910	0.3	280
20231220 1920	0.1	4
20231220 1930	0.1	35
20231220 1940	1.3	50
20231220 1950	0.1	286
20231220 2000	0.5	95
20231220 2010	0.1	29
20231220 2020	0.4	318
20231220 2030	3.5	302
20231220 2040	0.3	274
20231220 2050	0.1	278
20231220 2100	0.2	56
20231220 2110	0.2	10
20231220 2120	0.2	290
20231220 2130	0.4	338
20231220 2140	0.1	345
20231220 2150	2	324
20231220 2200	0.2	325
20231220 2210	0.1	320
20231220 2220	0.1	313
20231220 2230	0.1	38
20231220 2240	0.1	243
20231220 2250	0.9	304
20231220 2300	0.7	304
20231220 2310	0.1	304
20231220 2320	0.1	306
20231220 2330	0.2	21
20231220 2340	0.1	1
20231220 2350	0.1	310

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231221 0000	1.1	77
20231221 0010	1.1	290
20231221 0020	0.2	27
20231221 0030	0.1	253
20231221 0040	0.1	85
20231221 0050	0.1	286
20231221 0100	0.1	307
20231221 0110	0.1	329
20231221 0120	0.2	291
20231221 0130	0.1	15
20231221 0140	0.2	354
20231221 0150	0.1	69
20231221 0200	0.2	45
20231221 0210	0.8	301
20231221 0220	0.1	351
20231221 0230	0.1	28
20231221 0240	0.2	301
20231221 0250	0.2	325
20231221 0300	0.4	31
20231221 0310	0.1	265
20231221 0320	0.3	44
20231221 0330	0.1	281
20231221 0340	2.7	309
20231221 0350	2.2	335
20231221 0400	0.5	347
20231221 0410	0.3	309
20231221 0420	0.2	313
20231221 0430	0.3	310
20231221 0440	0.5	90
20231221 0450	0.1	342
20231221 0500	0.1	2
20231221 0510	0.1	345
20231221 0520	0.1	23
20231221 0530	0.1	18
20231221 0540	0.1	242
20231221 0550	0.8	42
20231221 0600	3	302
20231221 0610	2.1	335
20231221 0620	1.3	339
20231221 0630	2.1	316
20231221 0640	0.1	42
20231221 0650	0.1	48
20231221 0700	0.1	37
20231221 0710	0.2	345
20231221 0720	0.1	318
20231221 0730	1.3	238
20231221 0740	2.3	312
20231221 0750	4	324
20231221 0800	1.4	321
20231221 0810	1.7	4
20231221 0820	0.1	34
20231221 0830	0.1	258
20231221 0840	3.6	351
20231221 0850	3.9	334
20231221 0900	0.8	301
20231221 0910	1.6	321
20231221 0920	0.1	70
20231221 0930	0.3	296
20231221 0940	1	314
20231221 0950	0.1	39
20231221 1000	2.6	320
20231221 1010	0.8	48
20231221 1020	5.9	312
20231221 1030	1.1	36
20231221 1040	0.2	69
20231221 1050	0.4	352
20231221 1100	0.3	333
20231221 1110	1.8	347
20231221 1120	0.1	326
20231221 1130	0.2	47
20231221 1140	2.4	299
20231221 1150	0.3	119

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231221 1200	0.3	287
20231221 1210	0.4	3
20231221 1220	0.1	349
20231221 1230	0.1	5
20231221 1240	0.6	346
20231221 1250	0.2	27
20231221 1300	7.8	331
20231221 1310	0.2	125
20231221 1320	0.2	89
20231221 1330	0.6	109
20231221 1340	0.7	17
20231221 1350	0.1	60
20231221 1400	0.1	214
20231221 1410	2.8	74
20231221 1420	0.4	10
20231221 1430	0.8	234
20231221 1440	2.4	298
20231221 1450	0.8	343
20231221 1500	1.2	272
20231221 1510	0.4	317
20231221 1520	1	252
20231221 1530	0.1	335
20231221 1540	4	252
20231221 1550	3.6	326
20231221 1600	2	320
20231221 1610	1.4	288
20231221 1620	0.9	261
20231221 1630	0.6	198
20231221 1640	0.3	280
20231221 1650	0.1	329
20231221 1700	0.1	63
20231221 1710	1.5	334
20231221 1720	1.8	307
20231221 1730	1.9	300
20231221 1740	0.6	28
20231221 1750	4.6	331
20231221 1800	0.3	106
20231221 1810	0.4	236
20231221 1820	0.2	30
20231221 1830	0.1	4
20231221 1840	1.7	284
20231221 1850	4.2	350
20231221 1900	4.6	324
20231221 1910	0.1	342
20231221 1920	0.1	134
20231221 1930	0.2	348
20231221 1940	0.1	42
20231221 1950	3.6	315
20231221 2000	0.9	53
20231221 2010	2.4	289
20231221 2020	0.9	47
20231221 2030	2.5	271
20231221 2040	0.1	345
20231221 2050	0.2	61
20231221 2100	0.1	313
20231221 2110	1.6	326
20231221 2120	1.3	299
20231221 2130	1.3	321
20231221 2140	1.5	57
20231221 2150	0.1	89
20231221 2200	0.1	0
20231221 2210	1.2	88
20231221 2220	3.5	328
20231221 2230	4.1	245
20231221 2240	0.1	229
20231221 2250	1.7	267
20231221 2300	0.1	179
20231221 2310	1.6	35
20231221 2320	1.6	335
20231221 2330	0.1	58
20231221 2340	0.1	112
20231221 2350	0.2	285

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231222 0000	2.9	334
20231222 0010	2.9	271
20231222 0020	2.1	344
20231222 0030	0.4	13
20231222 0040	0.4	263
20231222 0050	0.2	4
20231222 0100	1.2	13
20231222 0110	5.6	339
20231222 0120	1	267
20231222 0130	0.3	250
20231222 0140	3.3	349
20231222 0150	0.4	268
20231222 0200	0.2	141
20231222 0210	0.1	308
20231222 0220	0.1	329
20231222 0230	0.1	353
20231222 0240	0.1	87
20231222 0250	0.1	211
20231222 0300	0.6	243
20231222 0310	0.1	345
20231222 0320	0.1	213
20231222 0330	0.4	307
20231222 0340	0.2	317
20231222 0350	0.2	17
20231222 0400	0.7	339
20231222 0410	0.1	54
20231222 0420	0.8	289
20231222 0430	1.1	3
20231222 0440	0.1	268
20231222 0450	1	324
20231222 0500	0.4	306
20231222 0510	1.6	299
20231222 0520	0.6	299
20231222 0530	0.1	153
20231222 0540	3.6	325
20231222 0550	1.1	314
20231222 0600	1	320
20231222 0610	0.1	336
20231222 0620	0.4	311
20231222 0630	0.1	292
20231222 0640	0.1	326
20231222 0650	3.2	315
20231222 0700	0.1	284
20231222 0710	0.1	86
20231222 0720	2.4	295
20231222 0730	0.3	311
20231222 0740	0.8	320
20231222 0750	0.6	341
20231222 0800	0.1	343
20231222 0810	1.7	337
20231222 0820	0.4	341
20231222 0830	0.2	337
20231222 0840	0.1	117
20231222 0850	0.1	226
20231222 0900	1.1	332
20231222 0910	0.9	348
20231222 0920	0.2	252
20231222 0930	0.3	105
20231222 0940	0.5	8
20231222 0950	0.1	12
20231222 1000	0.7	53
20231222 1010	2.9	73
20231222 1020	0.1	37
20231222 1030	0.5	313
20231222 1040	0.5	350
20231222 1050	0.1	27
20231222 1100	0.1	177
20231222 1110	1.3	307
20231222 1120	0.6	80
20231222 1130	0.1	298
20231222 1140	0.2	83
20231222 1150	0.1	26

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231222 1200	0.3	60
20231222 1210	0.2	56
20231222 1220	0.1	333
20231222 1230	0.1	136
20231222 1240	2.1	1
20231222 1250	0.6	325
20231222 1300	0.1	288
20231222 1310	1.2	12
20231222 1320	1.6	284
20231222 1330	0.4	315
20231222 1340	0.1	279
20231222 1350	0.6	8
20231222 1400	0.1	327
20231222 1410	0.1	84
20231222 1420	0.1	32
20231222 1430	0.1	20
20231222 1440	0.1	320
20231222 1450	0.8	337
20231222 1500	0.1	107
20231222 1510	0.1	330
20231222 1520	0.1	162
20231222 1530	0.5	21
20231222 1540	0.8	339
20231222 1550	0.2	17
20231222 1600	1	6
20231222 1610	0.1	271
20231222 1620	0.1	279
20231222 1630	0.1	315
20231222 1640	0.1	301
20231222 1650	0.1	65
20231222 1700	0.1	33
20231222 1710	0.1	129
20231222 1720	0.1	90
20231222 1730	0.1	105
20231222 1740	0.1	3
20231222 1750	0.1	113
20231222 1800	0.1	67
20231222 1810	0.1	152
20231222 1820	0.1	136
20231222 1830	0.1	138
20231222 1840	0.1	94
20231222 1850	0.1	183
20231222 1900	0.1	143
20231222 1910	0.1	310
20231222 1920	0.1	81
20231222 1930	0.1	312
20231222 1940	0.1	304
20231222 1950	0.1	152
20231222 2000	0.1	141
20231222 2010	0.1	109
20231222 2020	0.1	146
20231222 2030	0.1	233
20231222 2040	0.1	149
20231222 2050	0.1	139
20231222 2100	0.1	62
20231222 2110	0.2	129
20231222 2120	0.1	171
20231222 2130	0.1	138
20231222 2140	0.1	112
20231222 2150	0.1	80
20231222 2200	0.1	134
20231222 2210	0.1	112
20231222 2220	0.1	46
20231222 2230	0.1	67
20231222 2240	0.2	96
20231222 2250	0.1	68
20231222 2300	0.1	139
20231222 2310	0.1	3
20231222 2320	0.1	176
20231222 2330	0.1	55
20231222 2340	0.4	330
20231222 2350	0.1	294

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231223 0000	0.1	327
20231223 0010	0.1	167
20231223 0020	0.1	305
20231223 0030	0.6	355
20231223 0040	0.2	294
20231223 0050	0.1	302
20231223 0100	0.1	287
20231223 0110	0.1	319
20231223 0120	0.2	21
20231223 0130	0.1	77
20231223 0140	0.1	6
20231223 0150	0.1	356
20231223 0200	0.1	307
20231223 0210	6.2	292
20231223 0220	3.5	319
20231223 0230	0.5	13
20231223 0240	1.4	78
20231223 0250	0.2	75
20231223 0300	1.5	332
20231223 0310	2.8	328
20231223 0320	0.4	60
20231223 0330	0.1	217
20231223 0340	0.4	52
20231223 0350	0.2	293
20231223 0400	0.2	34
20231223 0410	0.6	301
20231223 0420	0.1	237
20231223 0430	0.2	346
20231223 0440	0.1	36
20231223 0450	0.6	326
20231223 0500	2.4	14
20231223 0510	2.7	325
20231223 0520	0.3	74
20231223 0530	0.2	343
20231223 0540	1.3	0
20231223 0550	0.1	2
20231223 0600	0.6	228
20231223 0610	1.1	326
20231223 0620	0.1	348
20231223 0630	2	22
20231223 0640	0.1	349
20231223 0650	0.1	353
20231223 0700	0.1	331
20231223 0710	0.1	345
20231223 0720	0.3	294
20231223 0730	0.1	43
20231223 0740	1.9	325
20231223 0750	0.2	300
20231223 0800	1.1	298
20231223 0810	1.5	19
20231223 0820	0.3	15
20231223 0830	0.1	38
20231223 0840	0.4	329
20231223 0850	0.4	355
20231223 0900	0.1	322
20231223 0910	0.1	310
20231223 0920	0.1	238
20231223 0930	0.4	60
20231223 0940	0.1	347
20231223 0950	0.1	340
20231223 1000	0.8	318
20231223 1010	0.1	311
20231223 1020	0.3	338
20231223 1030	0.1	295
20231223 1040	0.1	337
20231223 1050	0.3	80
20231223 1100	0.2	128
20231223 1110	0.9	101
20231223 1120	0.2	173
20231223 1130	0.3	133
20231223 1140	0.1	95
20231223 1150	0.1	170

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231223 1200	0.1	207
20231223 1210	0.8	150
20231223 1220	0.1	143
20231223 1230	0.1	144
20231223 1240	0.3	114
20231223 1250	0.8	99
20231223 1300	1	145
20231223 1310	0.1	106
20231223 1320	0.1	150
20231223 1330	0.4	57
20231223 1340	0.8	57
20231223 1350	0.5	114
20231223 1400	0.2	256
20231223 1410	0.1	161
20231223 1420	0.1	68
20231223 1430	0.4	120
20231223 1440	0.1	39
20231223 1450	0.1	279
20231223 1500	0.1	126
20231223 1510	0.1	117
20231223 1520	0.1	41
20231223 1530	0.1	280
20231223 1540	0.1	320
20231223 1550	0.1	123
20231223 1600	0.4	19
20231223 1610	1.2	56
20231223 1620	0.1	316
20231223 1630	0.2	16
20231223 1640	0.1	85
20231223 1650	2.3	299
20231223 1700	0.1	317
20231223 1710	0.4	15
20231223 1720	0.2	336
20231223 1730	0.1	352
20231223 1740	0.1	327
20231223 1750	0.1	120
20231223 1800	0.1	310
20231223 1810	0.1	313
20231223 1820	0.1	100
20231223 1830	0.1	5
20231223 1840	0.2	147
20231223 1850	0.1	76
20231223 1900	0.1	338
20231223 1910	0.1	148
20231223 1920	0.1	109
20231223 1930	0.1	184
20231223 1940	0.1	43
20231223 1950	0.1	113
20231223 2000	0.1	98
20231223 2010	0.1	295
20231223 2020	0.1	89
20231223 2030	0.1	86
20231223 2040	0.1	61
20231223 2050	0.1	353
20231223 2100	0.1	128
20231223 2110	0.1	53
20231223 2120	0.1	75
20231223 2130	0.1	72
20231223 2140	0.1	86
20231223 2150	0.1	90
20231223 2200	0.1	71
20231223 2210	0.1	62
20231223 2220	0.1	52
20231223 2230	0.1	70
20231223 2240	0.1	85
20231223 2250	0.1	75
20231223 2300	0.1	87
20231223 2310	0.1	49
20231223 2320	0.1	64
20231223 2330	0.1	39
20231223 2340	0.1	352
20231223 2350	0.1	86

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231224 0000	0.1	140
20231224 0010	0.1	84
20231224 0020	0.1	65
20231224 0030	0.1	72
20231224 0040	0.1	48
20231224 0050	0.1	93
20231224 0100	0.1	75
20231224 0110	0.1	49
20231224 0120	0.1	90
20231224 0130	0.1	73
20231224 0140	0.1	60
20231224 0150	0.1	72
20231224 0200	0.1	80
20231224 0210	0.1	78
20231224 0220	0.1	86
20231224 0230	0.1	62
20231224 0240	0.1	51
20231224 0250	0.1	60
20231224 0300	0.1	73
20231224 0310	0.1	73
20231224 0320	0.1	53
20231224 0330	0.1	72
20231224 0340	0.1	57
20231224 0350	0.1	76
20231224 0400	0.1	85
20231224 0410	0.1	46
20231224 0420	0.1	49
20231224 0430	0.1	91
20231224 0440	0.1	83
20231224 0450	0.1	79
20231224 0500	0.1	73
20231224 0510	0.1	70
20231224 0520	0.1	87
20231224 0530	0.1	89
20231224 0540	0.1	46
20231224 0550	0.1	85
20231224 0600	0.1	61
20231224 0610	0.1	69
20231224 0620	0.1	85
20231224 0630	0.1	65
20231224 0640	0.1	60
20231224 0650	0.1	28
20231224 0700	0.1	51
20231224 0710	0.1	63
20231224 0720	0.1	95
20231224 0730	0.1	72
20231224 0740	0.1	73
20231224 0750	0.1	111
20231224 0800	0.1	128
20231224 0810	0.1	88
20231224 0820	0.1	120
20231224 0830	0.1	156
20231224 0840	0.1	57
20231224 0850	0.1	139
20231224 0900	0.1	162
20231224 0910	0.1	61
20231224 0920	0.1	59
20231224 0930	2.2	296
20231224 0940	0.2	295
20231224 0950	1.4	301
20231224 1000	0.2	4
20231224 1010	1.2	321
20231224 1020	0.6	9
20231224 1030	0.7	339
20231224 1040	1.1	323
20231224 1050	1	60
20231224 1100	0.9	305
20231224 1110	2.9	334
20231224 1120	1.5	352
20231224 1130	6.1	6
20231224 1140	1.8	240
20231224 1150	0.2	85

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231224 1200	0.1	85
20231224 1210	0.2	304
20231224 1220	2	2
20231224 1230	0.1	159
20231224 1240	0.8	95
20231224 1250	4.2	49
20231224 1300	1.2	16
20231224 1310	1	77
20231224 1320	0.1	68
20231224 1330	4.7	71
20231224 1340	0.8	88
20231224 1350	1.8	116
20231224 1400	0.1	256
20231224 1410	0.4	100
20231224 1420	0.6	139
20231224 1430	2.1	117
20231224 1440	2.8	58
20231224 1450	0.1	305
20231224 1500	0.7	52
20231224 1510	0.1	29
20231224 1520	0.1	0
20231224 1530	0.1	194
20231224 1540	0.3	23
20231224 1550	1	88
20231224 1600	0.1	249
20231224 1610	0.7	134
20231224 1620	0.1	60
20231224 1630	0.1	124
20231224 1640	0.1	66
20231224 1650	0.1	129
20231224 1700	0.1	132
20231224 1710	0.1	98
20231224 1720	0.1	242
20231224 1730	0.1	106
20231224 1740	0.1	152
20231224 1750	0.1	343
20231224 1800	0.1	29
20231224 1810	0.1	70
20231224 1820	0.1	45
20231224 1830	0.1	87
20231224 1840	0.1	31
20231224 1850	0.1	130
20231224 1900	0.4	12
20231224 1910	0.4	41
20231224 1920	1.6	273
20231224 1930	0.4	334
20231224 1940	0.2	174
20231224 1950	0.1	154
20231224 2000	0.6	141
20231224 2010	0.1	100
20231224 2020	0.1	330
20231224 2030	0.1	183
20231224 2040	0.8	99
20231224 2050	1.5	137
20231224 2100	0.2	323
20231224 2110	0.1	23
20231224 2120	0.2	92
20231224 2130	0.1	240
20231224 2140	0.1	140
20231224 2150	0.1	90
20231224 2200	0.1	108
20231224 2210	0.1	314
20231224 2220	0.1	112
20231224 2230	0.1	0
20231224 2240	0.1	17
20231224 2250	0.1	306
20231224 2300	0.1	211
20231224 2310	0.1	111
20231224 2320	0.1	136
20231224 2330	0.1	159
20231224 2340	0.1	114
20231224 2350	0.1	37

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231225 0000	0.1	83
20231225 0010	0.1	349
20231225 0020	0.1	85
20231225 0030	0.1	68
20231225 0040	0.1	124
20231225 0050	0.1	135
20231225 0100	0.1	36
20231225 0110	0.1	30
20231225 0120	0.1	77
20231225 0130	0.1	326
20231225 0140	0.1	113
20231225 0150	0.1	100
20231225 0200	0.2	338
20231225 0210	0.1	126
20231225 0220	0.1	121
20231225 0230	0.1	133
20231225 0240	0.1	118
20231225 0250	0.1	327
20231225 0300	0.1	106
20231225 0310	0.1	350
20231225 0320	0.1	312
20231225 0330	0.1	352
20231225 0340	0.1	23
20231225 0350	0.1	51
20231225 0400	0.1	29
20231225 0410	0.1	39
20231225 0420	0.1	75
20231225 0430	0.1	76
20231225 0440	0.1	333
20231225 0450	0.1	314
20231225 0500	0.1	64
20231225 0510	0.1	59
20231225 0520	0.1	73
20231225 0530	0.1	81
20231225 0540	0.1	65
20231225 0550	0.1	68
20231225 0600	0.1	58
20231225 0610	0.1	64
20231225 0620	0.1	72
20231225 0630	0.1	73
20231225 0640	0.1	93
20231225 0650	0.1	94
20231225 0700	0.1	63
20231225 0710	0.1	43
20231225 0720	0.1	52
20231225 0730	0.1	71
20231225 0740	0.1	74
20231225 0750	0.1	71
20231225 0800	0.1	45
20231225 0810	0.1	34
20231225 0820	0.1	104
20231225 0830	0.1	108
20231225 0840	0.1	128
20231225 0850	0.1	121
20231225 0900	0.1	138
20231225 0910	0.1	155
20231225 0920	0.1	172
20231225 0930	0.1	183
20231225 0940	0.1	130
20231225 0950	0.1	126
20231225 1000	0.3	222
20231225 1010	0.4	140
20231225 1020	0.1	318
20231225 1030	0.6	221
20231225 1040	0.1	140
20231225 1050	0.2	249
20231225 1100	0.1	67
20231225 1110	3.2	260
20231225 1120	0.1	257
20231225 1130	0.2	256
20231225 1140	0.3	201
20231225 1150	0.3	243

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231225 1200	0.1	335
20231225 1210	0.3	203
20231225 1220	0.1	259
20231225 1230	1.3	265
20231225 1240	0.3	229
20231225 1250	0.8	171
20231225 1300	0.5	150
20231225 1310	1.7	285
20231225 1320	0.2	21
20231225 1330	0.1	255
20231225 1340	0.3	89
20231225 1350	1.5	340
20231225 1400	0.1	114
20231225 1410	0.2	231
20231225 1420	0.7	36
20231225 1430	0.1	253
20231225 1440	0.1	279
20231225 1450	0.1	111
20231225 1500	1.3	50
20231225 1510	0.1	320
20231225 1520	0.1	11
20231225 1530	0.1	40
20231225 1540	0.1	184
20231225 1550	0.6	217
20231225 1600	0.1	209
20231225 1610	0.1	338
20231225 1620	0.2	159
20231225 1630	0.1	36
20231225 1640	0.1	343
20231225 1650	0.1	70
20231225 1700	0.1	111
20231225 1710	0.1	318
20231225 1720	0.1	55
20231225 1730	0.1	65
20231225 1740	0.1	32
20231225 1750	0.1	353
20231225 1800	0.1	29
20231225 1810	0.1	340
20231225 1820	0.1	344
20231225 1830	0.1	30
20231225 1840	0.1	11
20231225 1850	0.1	73
20231225 1900	0.1	23
20231225 1910	0.1	47
20231225 1920	0.1	37
20231225 1930	0.1	45
20231225 1940	0.1	49
20231225 1950	0.1	13
20231225 2000	0.1	32
20231225 2010	0.1	59
20231225 2020	0.1	15
20231225 2030	0.1	44
20231225 2040	0.1	141
20231225 2050	0.1	36
20231225 2100	0.1	106
20231225 2110	0.1	346
20231225 2120	0.1	41
20231225 2130	0.1	152
20231225 2140	0.1	106
20231225 2150	0.1	45
20231225 2200	0.1	46
20231225 2210	0.1	71
20231225 2220	0.1	62
20231225 2230	0.1	211
20231225 2240	0.1	8
20231225 2250	0.1	51
20231225 2300	0.1	51
20231225 2310	0.1	90
20231225 2320	0.1	83
20231225 2330	0.1	57
20231225 2340	0.1	58
20231225 2350	0.1	25

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231226 0000	0.1	25
20231226 0010	0.1	179
20231226 0020	0.1	78
20231226 0030	0.1	238
20231226 0040	0.1	89
20231226 0050	0.1	103
20231226 0100	0.1	166
20231226 0110	0.1	265
20231226 0120	0.1	15
20231226 0130	0.1	15
20231226 0140	0.1	47
20231226 0150	0.1	49
20231226 0200	0.1	155
20231226 0210	0.1	127
20231226 0220	0.1	228
20231226 0230	0.1	123
20231226 0240	0.1	142
20231226 0250	0.1	126
20231226 0300	0.1	62
20231226 0310	0.1	146
20231226 0320	0.1	211
20231226 0330	0.1	213
20231226 0340	0.1	165
20231226 0350	0.1	240
20231226 0400	0.1	126
20231226 0410	0.1	78
20231226 0420	0.1	79
20231226 0430	0.1	164
20231226 0440	0.1	282
20231226 0450	0.1	15
20231226 0500	0.1	48
20231226 0510	0.1	53
20231226 0520	0.1	65
20231226 0530	0.1	16
20231226 0540	0.1	37
20231226 0550	0.1	253
20231226 0600	0.1	84
20231226 0610	0.1	92
20231226 0620	0.1	33
20231226 0630	0.1	146
20231226 0640	0.1	38
20231226 0650	0.1	142
20231226 0700	0.1	36
20231226 0710	0.1	32
20231226 0720	0.1	21
20231226 0730	0.1	124
20231226 0740	0.1	244
20231226 0750	0.1	269
20231226 0800	0.1	155
20231226 0810	0.1	280
20231226 0820	0.1	244
20231226 0830	0.1	16
20231226 0840	0.1	208
20231226 0850	0.1	216
20231226 0900	0.1	176
20231226 0910	0.1	97
20231226 0920	0.1	143
20231226 0930	0.1	133
20231226 0940	0.1	193
20231226 0950	0.1	141
20231226 1000	0.1	147
20231226 1010	0.1	254
20231226 1020	0.1	154
20231226 1030	0.1	19
20231226 1040	0.1	135
20231226 1050	0.2	195
20231226 1100	0.2	244
20231226 1110	0.1	168
20231226 1120	0.2	60
20231226 1130	0.1	76
20231226 1140	0.8	196
20231226 1150	0.1	183

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231226 1200	0.1	275
20231226 1210	0.1	99
20231226 1220	1.5	266
20231226 1230	0.1	101
20231226 1240	0.1	163
20231226 1250	0.1	59
20231226 1300	0.1	286
20231226 1310	0.7	146
20231226 1320	0.3	91
20231226 1330	0.3	304
20231226 1340	0.9	101
20231226 1350	0.4	8
20231226 1400	1.2	19
20231226 1410	0.1	135
20231226 1420	1.2	175
20231226 1430	0.9	191
20231226 1440	0.1	88
20231226 1450	0.1	189
20231226 1500	0.3	57
20231226 1510	0.1	333
20231226 1520	0.1	62
20231226 1530	0.2	139
20231226 1540	0.1	164
20231226 1550	0.1	208
20231226 1600	0.2	114
20231226 1610	1.3	52
20231226 1620	1.7	138
20231226 1630	0.1	30
20231226 1640	0.2	168
20231226 1650	0.1	19
20231226 1700	0.1	42
20231226 1710	0.1	62
20231226 1720	0.1	94
20231226 1730	0.1	84
20231226 1740	0.2	101
20231226 1750	0.2	138
20231226 1800	1.2	111
20231226 1810	0.1	43
20231226 1820	0.6	110
20231226 1830	0.3	98
20231226 1840	0.6	108
20231226 1850	0.1	72
20231226 1900	0.1	128
20231226 1910	0.1	105
20231226 1920	0.4	123
20231226 1930	0.1	347
20231226 1940	0.1	68
20231226 1950	0.1	126
20231226 2000	0.1	22
20231226 2010	0.1	126
20231226 2020	0.1	55
20231226 2030	0.1	232
20231226 2040	0.1	327
20231226 2050	0.1	81
20231226 2100	0.1	78
20231226 2110	0.1	330
20231226 2120	0.1	354
20231226 2130	0.1	163
20231226 2140	0.1	312
20231226 2150	0.1	38
20231226 2200	0.1	337
20231226 2210	0.1	102
20231226 2220	0.1	339
20231226 2230	0.1	338
20231226 2240	0.1	121
20231226 2250	0.1	136
20231226 2300	0.1	51
20231226 2310	0.1	131
20231226 2320	0.1	343
20231226 2330	0.1	26
20231226 2340	0.1	51
20231226 2350	0.1	280

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231227 0000	0.1	119
20231227 0010	0.1	95
20231227 0020	0.1	256
20231227 0030	0.1	91
20231227 0040	0.1	195
20231227 0050	0.1	344
20231227 0100	0.1	259
20231227 0110	0.1	165
20231227 0120	0.1	156
20231227 0130	0.1	268
20231227 0140	0.1	122
20231227 0150	0.1	56
20231227 0200	0.1	7
20231227 0210	0.1	326
20231227 0220	0.1	325
20231227 0230	0.1	13
20231227 0240	0.1	94
20231227 0250	0.1	35
20231227 0300	0.1	54
20231227 0310	0.1	338
20231227 0320	0.1	334
20231227 0330	0.1	328
20231227 0340	0.1	224
20231227 0350	0.1	46
20231227 0400	0.1	66
20231227 0410	0.1	120
20231227 0420	0.1	54
20231227 0430	0.1	81
20231227 0440	0.1	54
20231227 0450	0.1	132
20231227 0500	0.1	58
20231227 0510	0.1	22
20231227 0520	0.1	326
20231227 0530	0.1	337
20231227 0540	0.1	66
20231227 0550	0.1	70
20231227 0600	0.1	69
20231227 0610	0.1	328
20231227 0620	0.1	274
20231227 0630	0.1	149
20231227 0640	0.1	84
20231227 0650	0.1	13
20231227 0700	0.1	121
20231227 0710	0.1	275
20231227 0720	0.1	64
20231227 0730	0.1	94
20231227 0740	0.1	222
20231227 0750	0.1	85
20231227 0800	0.1	33
20231227 0810	0.1	62
20231227 0820	0.1	91
20231227 0830	0.1	7
20231227 0840	0.1	148
20231227 0850	0.1	109
20231227 0900	0.1	101
20231227 0910	0.1	160
20231227 0920	0.1	210
20231227 0930	0.1	130
20231227 0940	0.1	109
20231227 0950	0.1	169
20231227 1000	0.2	200
20231227 1010	0.1	137
20231227 1020	0.1	123
20231227 1030	0.1	158
20231227 1040	0.2	91
20231227 1050	0.1	181
20231227 1100	0.1	64
20231227 1110	0.1	84
20231227 1120	0.1	139
20231227 1130	0.1	52
20231227 1140	0.1	291
20231227 1150	0.1	76

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231227 1200	0.1	130
20231227 1210	0.1	199
20231227 1220	0.2	67
20231227 1230	0.1	212
20231227 1240	0.4	153
20231227 1250	0.1	268
20231227 1300	0.3	178
20231227 1310	0.9	115
20231227 1320	0.1	242
20231227 1330	0.1	256
20231227 1340	0.1	55
20231227 1350	0.1	101
20231227 1400	0.1	156
20231227 1410	0.1	35
20231227 1420	0.1	155
20231227 1430	0.3	94
20231227 1440	0.2	63
20231227 1450	0.1	136
20231227 1500	0.7	89
20231227 1510	0.1	136
20231227 1520	0.1	67
20231227 1530	0.1	61
20231227 1540	0.1	97
20231227 1550	0.1	188
20231227 1600	0.5	125
20231227 1610	0.2	66
20231227 1620	0.1	114
20231227 1630	0.1	68
20231227 1640	0.1	55
20231227 1650	0.1	35
20231227 1700	0.1	250
20231227 1710	0.1	59
20231227 1720	0.1	84
20231227 1730	0.1	339
20231227 1740	0.1	310
20231227 1750	0.1	82
20231227 1800	0.1	67
20231227 1810	0.1	94
20231227 1820	0.1	5
20231227 1830	0.1	317
20231227 1840	0.1	39
20231227 1850	0.1	18
20231227 1900	0.1	72
20231227 1910	0.1	49
20231227 1920	0.1	343
20231227 1930	0.1	299
20231227 1940	0.1	337
20231227 1950	0.1	52
20231227 2000	0.1	86
20231227 2010	0.1	349
20231227 2020	0.1	45
20231227 2030	0.1	23
20231227 2040	0.1	340
20231227 2050	0.1	333
20231227 2100	0.1	114
20231227 2110	0.1	158
20231227 2120	0.1	88
20231227 2130	0.1	103
20231227 2140	0.1	71
20231227 2150	0.1	61
20231227 2200	0.1	61
20231227 2210	0.1	344
20231227 2220	0.1	4
20231227 2230	0.1	323
20231227 2240	0.1	306
20231227 2250	0.1	61
20231227 2300	0.1	38
20231227 2310	0.1	72
20231227 2320	0.1	14
20231227 2330	0.1	143
20231227 2340	0.1	34
20231227 2350	0.4	89

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231228 0000	0.3	183
20231228 0010	0.1	77
20231228 0020	0.8	58
20231228 0030	0.1	129
20231228 0040	0.1	42
20231228 0050	0.1	128
20231228 0100	0.1	84
20231228 0110	0.2	98
20231228 0120	0.5	125
20231228 0130	0.2	82
20231228 0140	0.1	111
20231228 0150	0.1	162
20231228 0200	0.2	132
20231228 0210	0.1	4
20231228 0220	0.1	162
20231228 0230	0.1	197
20231228 0240	0.1	119
20231228 0250	0.1	340
20231228 0300	0.1	318
20231228 0310	0.1	94
20231228 0320	0.1	33
20231228 0330	0.1	321
20231228 0340	0.1	70
20231228 0350	0.1	78
20231228 0400	0.2	29
20231228 0410	0.1	69
20231228 0420	0.1	123
20231228 0430	0.1	35
20231228 0440	2.1	142
20231228 0450	0.1	104
20231228 0500	0.1	312
20231228 0510	0.1	104
20231228 0520	0.1	282
20231228 0530	0.1	79
20231228 0540	0.1	65
20231228 0550	0.1	160
20231228 0600	0.1	307
20231228 0610	0.1	116
20231228 0620	0.1	342
20231228 0630	0.1	45
20231228 0640	0.1	108
20231228 0650	0.1	148
20231228 0700	0.1	141
20231228 0710	0.1	202
20231228 0720	0.1	31
20231228 0730	0.1	184
20231228 0740	0.1	62
20231228 0750	0.1	124
20231228 0800	0.1	189
20231228 0810	0.1	53
20231228 0820	0.1	100
20231228 0830	0.1	343
20231228 0840	0.1	78
20231228 0850	0.1	137
20231228 0900	0.1	199
20231228 0910	0.1	173
20231228 0920	0.1	88
20231228 0930	0.2	181
20231228 0940	0.1	9
20231228 0950	1.4	10
20231228 1000	0.1	98
20231228 1010	0.2	309
20231228 1020	0.1	280
20231228 1030	0.1	66
20231228 1040	0.1	117
20231228 1050	0.1	206
20231228 1100	0.1	15
20231228 1110	0.1	41
20231228 1120	1.1	9
20231228 1130	1.4	1
20231228 1140	0.2	332
20231228 1150	0.2	134

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231228 1200	0.1	20
20231228 1210	1.6	68
20231228 1220	0.1	64
20231228 1230	1	56
20231228 1240	2	121
20231228 1250	2.2	141
20231228 1300	0.1	304
20231228 1310	0.1	28
20231228 1320	0.1	152
20231228 1330	0.3	124
20231228 1340	2.8	216
20231228 1350	0.4	67
20231228 1400	1.2	199
20231228 1410	1.1	261
20231228 1420	0.3	18
20231228 1430	1	322
20231228 1440	0.2	103
20231228 1450	0.1	267
20231228 1500	1.3	48
20231228 1510	0.1	52
20231228 1520	0.2	236
20231228 1530	0.1	50
20231228 1540	0.6	97
20231228 1550	0.3	135
20231228 1600	0.8	89
20231228 1610	0.1	113
20231228 1620	0.1	51
20231228 1630	0.3	113
20231228 1640	0.1	52
20231228 1650	1.1	127
20231228 1700	1.3	128
20231228 1710	0.1	90
20231228 1720	0.5	110
20231228 1730	0.1	16
20231228 1740	0.1	106
20231228 1750	0.1	53
20231228 1800	0.1	80
20231228 1810	0.1	96
20231228 1820	0.1	159
20231228 1830	0.1	313
20231228 1840	0.1	16
20231228 1850	0.2	41
20231228 1900	0.1	302
20231228 1910	0.1	326
20231228 1920	0.4	110
20231228 1930	0.1	9
20231228 1940	0.4	109
20231228 1950	0.1	142
20231228 2000	0.1	103
20231228 2010	0.1	97
20231228 2020	0.1	98
20231228 2030	0.1	110
20231228 2040	0.1	236
20231228 2050	0.2	123
20231228 2100	0.1	50
20231228 2110	0.1	68
20231228 2120	0.2	83
20231228 2130	0.1	109
20231228 2140	0.1	349
20231228 2150	0.1	347
20231228 2200	0.1	208
20231228 2210	0.1	131
20231228 2220	0.1	333
20231228 2230	0.1	180
20231228 2240	0.1	168
20231228 2250	0.1	158
20231228 2300	0.1	110
20231228 2310	0.1	154
20231228 2320	0.1	259
20231228 2330	0.1	78
20231228 2340	0.1	317
20231228 2350	0.1	27

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231229 0000	0.1	28
20231229 0010	0.1	131
20231229 0020	0.1	65
20231229 0030	0.1	64
20231229 0040	0.1	56
20231229 0050	0.1	52
20231229 0100	0.1	38
20231229 0110	0.1	50
20231229 0120	0.1	57
20231229 0130	0.1	17
20231229 0140	0.1	59
20231229 0150	0.1	53
20231229 0200	0.1	14
20231229 0210	0.1	318
20231229 0220	0.1	65
20231229 0230	0.1	64
20231229 0240	0.1	64
20231229 0250	0.1	331
20231229 0300	0.1	80
20231229 0310	0.1	60
20231229 0320	0.1	23
20231229 0330	0.1	80
20231229 0340	0.1	4
20231229 0350	0.1	27
20231229 0400	0.1	348
20231229 0410	0.1	25
20231229 0420	0.1	38
20231229 0430	0.1	38
20231229 0440	0.1	48
20231229 0450	0.1	22
20231229 0500	0.1	35
20231229 0510	0.1	206
20231229 0520	0.1	99
20231229 0530	0.1	30
20231229 0540	0.1	23
20231229 0550	0.1	143
20231229 0600	0.1	309
20231229 0610	0.1	342
20231229 0620	0.1	348
20231229 0630	0.1	317
20231229 0640	0.1	42
20231229 0650	0.1	104
20231229 0700	0.1	334
20231229 0710	0.1	81
20231229 0720	0.1	283
20231229 0730	0.1	4
20231229 0740	0.1	216
20231229 0750	0.1	70
20231229 0800	0.1	337
20231229 0810	0.1	240
20231229 0820	0.1	148
20231229 0830	0.1	120
20231229 0840	0.1	138
20231229 0850	0.1	109
20231229 0900	0.1	161
20231229 0910	0.2	194
20231229 0920	0.1	27
20231229 0930	0.3	271
20231229 0940	0.1	83
20231229 0950	0.1	70
20231229 1000	0.1	293
20231229 1010	0.3	353
20231229 1020	0.1	98
20231229 1030	0.1	119
20231229 1040	0.1	307
20231229 1050	0.1	17
20231229 1100	3	221
20231229 1110	0.2	94
20231229 1120	2.2	50
20231229 1130	0.1	50
20231229 1140	0.2	152
20231229 1150	0.1	45

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231229 1200	0.1	80
20231229 1210	0.5	63
20231229 1220	0.1	75
20231229 1230	0.1	184
20231229 1240	2	161
20231229 1250	0.9	111
20231229 1300	1.4	133
20231229 1310	2.6	41
20231229 1320	0.3	129
20231229 1330	0.1	294
20231229 1340	0.2	117
20231229 1350	0.1	60
20231229 1400	1.6	115
20231229 1410	0.2	106
20231229 1420	0.3	115
20231229 1430	0.1	36
20231229 1440	3.5	176
20231229 1450	0.6	81
20231229 1500	0.1	317
20231229 1510	3.3	156
20231229 1520	3.1	154
20231229 1530	0.1	37
20231229 1540	0.2	56
20231229 1550	0.1	27
20231229 1600	1.5	187
20231229 1610	0.3	123
20231229 1620	1	98
20231229 1630	0.1	272
20231229 1640	1.2	190
20231229 1650	0.3	78
20231229 1700	0.1	344
20231229 1710	0.1	151
20231229 1720	0.2	85
20231229 1730	0.1	163
20231229 1740	0.1	341
20231229 1750	0.1	76
20231229 1800	0.2	115
20231229 1810	1.2	188
20231229 1820	0.1	178
20231229 1830	0.2	94
20231229 1840	0.1	289
20231229 1850	0.1	315
20231229 1900	0.1	82
20231229 1910	0.1	80
20231229 1920	0.1	99
20231229 1930	0.5	123
20231229 1940	0.4	111
20231229 1950	0.4	117
20231229 2000	0.1	84
20231229 2010	0.1	117
20231229 2020	0.2	195
20231229 2030	0.3	191
20231229 2040	0.5	105
20231229 2050	0.3	350
20231229 2100	0.4	7
20231229 2110	0.1	158
20231229 2120	0.1	91
20231229 2130	0.1	133
20231229 2140	0.1	40
20231229 2150	0.1	103
20231229 2200	0.1	130
20231229 2210	0.1	140
20231229 2220	0.1	213
20231229 2230	0.6	117
20231229 2240	0.1	123
20231229 2250	1	79
20231229 2300	0.6	123
20231229 2310	0.1	120
20231229 2320	0.1	5
20231229 2330	0.1	7
20231229 2340	0.1	161
20231229 2350	0.1	38

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231230 0000	0.1	100
20231230 0010	0.1	113
20231230 0020	0.1	344
20231230 0030	0.1	332
20231230 0040	0.1	51
20231230 0050	0.1	65
20231230 0100	0.1	102
20231230 0110	0.1	45
20231230 0120	0.1	38
20231230 0130	0.1	349
20231230 0140	0.1	344
20231230 0150	0.1	65
20231230 0200	0.1	22
20231230 0210	0.1	53
20231230 0220	0.1	92
20231230 0230	0.1	2
20231230 0240	0.1	236
20231230 0250	0.1	7
20231230 0300	0.1	265
20231230 0310	0.1	110
20231230 0320	0.1	124
20231230 0330	0.1	47
20231230 0340	0.1	85
20231230 0350	0.1	65
20231230 0400	0.1	39
20231230 0410	0.1	133
20231230 0420	0.1	83
20231230 0430	0.1	13
20231230 0440	0.1	97
20231230 0450	0.1	354
20231230 0500	0.1	33
20231230 0510	0.1	34
20231230 0520	0.1	45
20231230 0530	0.1	38
20231230 0540	0.1	274
20231230 0550	0.1	0
20231230 0600	0.1	101
20231230 0610	0.1	48
20231230 0620	0.1	12
20231230 0630	0.1	336
20231230 0640	0.1	314
20231230 0650	0.1	187
20231230 0700	0.1	172
20231230 0710	0.1	169
20231230 0720	0.1	38
20231230 0730	0.1	312
20231230 0740	0.1	205
20231230 0750	0.1	136
20231230 0800	0.1	72
20231230 0810	0.1	123
20231230 0820	0.1	70
20231230 0830	0.1	71
20231230 0840	0.1	214
20231230 0850	0.1	173
20231230 0900	0.1	71
20231230 0910	0.1	129
20231230 0920	0.1	132
20231230 0930	0.1	112
20231230 0940	0.1	146
20231230 0950	0.2	149
20231230 1000	0.3	174
20231230 1010	0.1	166
20231230 1020	0.2	133
20231230 1030	0.1	120
20231230 1040	0.1	222
20231230 1050	0.3	325
20231230 1100	0.3	122
20231230 1110	0.1	229
20231230 1120	1.4	294
20231230 1130	0.1	233
20231230 1140	0.1	34
20231230 1150	0.1	253

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231230 1200	0.4	47
20231230 1210	0.2	240
20231230 1220	1.1	201
20231230 1230	0.1	237
20231230 1240	0.2	208
20231230 1250	0.1	16
20231230 1300	0.7	203
20231230 1310	0.1	82
20231230 1320	1.6	200
20231230 1330	0.1	338
20231230 1340	0.1	38
20231230 1350	1.6	68
20231230 1400	0.1	236
20231230 1410	0.1	172
20231230 1420	0.1	141
20231230 1430	0.1	239
20231230 1440	0.1	332
20231230 1450	0.3	127
20231230 1500	0.1	151
20231230 1510	0.3	221
20231230 1520	0.2	166
20231230 1530	0.2	145
20231230 1540	0.1	280
20231230 1550	0.1	145
20231230 1600	0.1	230
20231230 1610	0.9	222
20231230 1620	0.1	251
20231230 1630	0.1	146
20231230 1640	0.1	136
20231230 1650	0.1	148
20231230 1700	0.1	97
20231230 1710	0.1	63
20231230 1720	0.1	345
20231230 1730	0.1	42
20231230 1740	0.2	51
20231230 1750	0.1	138
20231230 1800	0.1	95
20231230 1810	0.1	92
20231230 1820	0.1	87
20231230 1830	0.1	111
20231230 1840	0.1	307
20231230 1850	0.1	300
20231230 1900	0.1	18
20231230 1910	0.2	90
20231230 1920	0.1	97
20231230 1930	0.1	229
20231230 1940	0.1	128
20231230 1950	0.1	204
20231230 2000	0.1	275
20231230 2010	0.1	170
20231230 2020	0.1	263
20231230 2030	0.1	145
20231230 2040	0.1	67
20231230 2050	0.1	42
20231230 2100	0.1	83
20231230 2110	0.1	49
20231230 2120	0.1	66
20231230 2130	0.1	53
20231230 2140	0.1	48
20231230 2150	0.1	46
20231230 2200	0.1	45
20231230 2210	0.1	348
20231230 2220	0.1	45
20231230 2230	0.1	51
20231230 2240	0.1	61
20231230 2250	0.1	67
20231230 2300	0.1	26
20231230 2310	0.1	71
20231230 2320	0.1	45
20231230 2330	0.1	3
20231230 2340	0.1	47
20231230 2350	0.1	348

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231231 0000	0.1	55
20231231 0010	0.1	41
20231231 0020	0.1	44
20231231 0030	0.1	60
20231231 0040	0.1	94
20231231 0050	0.1	4
20231231 0100	0.1	316
20231231 0110	0.1	86
20231231 0120	0.1	47
20231231 0130	0.1	13
20231231 0140	0.1	83
20231231 0150	0.1	136
20231231 0200	0.1	46
20231231 0210	0.1	0
20231231 0220	0.1	44
20231231 0230	0.1	129
20231231 0240	0.1	264
20231231 0250	0.1	26
20231231 0300	0.1	71
20231231 0310	0.1	49
20231231 0320	0.1	71
20231231 0330	0.1	216
20231231 0340	0.1	257
20231231 0350	0.1	340
20231231 0400	0.1	240
20231231 0410	0.1	34
20231231 0420	0.1	37
20231231 0430	0.1	32
20231231 0440	0.1	53
20231231 0450	0.1	26
20231231 0500	0.1	50
20231231 0510	0.1	18
20231231 0520	0.1	60
20231231 0530	0.1	56
20231231 0540	0.1	56
20231231 0550	0.1	68
20231231 0600	0.1	59
20231231 0610	0.1	302
20231231 0620	0.1	254
20231231 0630	0.1	41
20231231 0640	0.1	67
20231231 0650	0.1	69
20231231 0700	0.1	67
20231231 0710	0.1	66
20231231 0720	0.1	11
20231231 0730	0.1	67
20231231 0740	0.1	67
20231231 0750	0.1	67
20231231 0800	0.1	339
20231231 0810	0.1	27
20231231 0820	0.1	236
20231231 0830	0.1	211
20231231 0840	0.1	159
20231231 0850	0.1	113
20231231 0900	0.1	112
20231231 0910	0.1	154
20231231 0920	0.1	145
20231231 0930	0.1	136
20231231 0940	0.1	151
20231231 0950	0.1	143
20231231 1000	0.1	161
20231231 1010	0.4	140
20231231 1020	1.1	149
20231231 1030	0.1	141
20231231 1040	0.1	161
20231231 1050	0.8	151
20231231 1100	0.1	183
20231231 1110	0.1	134
20231231 1120	0.1	107
20231231 1130	1.6	224
20231231 1140	0.9	172
20231231 1150	0.5	185

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231231 1200	1.6	217
20231231 1210	3	170
20231231 1220	0.1	305
20231231 1230	0.9	205
20231231 1240	0.4	346
20231231 1250	0.1	10
20231231 1300	0.2	2
20231231 1310	0.1	257
20231231 1320	0.7	0
20231231 1330	0.1	72
20231231 1340	0.1	239
20231231 1350	0.1	157
20231231 1400	0.3	181
20231231 1410	0.2	342
20231231 1420	0.2	4
20231231 1430	0.1	103
20231231 1440	0.1	149
20231231 1450	0.1	67
20231231 1500	0.1	81
20231231 1510	0.1	35
20231231 1520	0.4	326
20231231 1530	0.1	170
20231231 1540	1.2	106
20231231 1550	0.8	182
20231231 1600	0.3	71
20231231 1610	1.7	141
20231231 1620	0.2	164
20231231 1630	0.2	110
20231231 1640	0.1	124
20231231 1650	0.1	0
20231231 1700	0.1	305
20231231 1710	0.2	107
20231231 1720	0.3	292
20231231 1730	0.1	126
20231231 1740	0.1	328
20231231 1750	0.1	354
20231231 1800	0.1	53
20231231 1810	0.1	293
20231231 1820	0.2	297
20231231 1830	0.1	128
20231231 1840	0.1	85
20231231 1850	0.1	81
20231231 1900	0.1	346
20231231 1910	0.4	51
20231231 1920	0.2	31
20231231 1930	0.1	10
20231231 1940	0.5	184
20231231 1950	0.9	34
20231231 2000	0.1	123
20231231 2010	0.3	192
20231231 2020	8.6	340
20231231 2030	2	196
20231231 2040	1.4	163
20231231 2050	0.3	34
20231231 2100	0.1	156
20231231 2110	0.1	185
20231231 2120	0.5	90
20231231 2130	6.8	354
20231231 2140	3.9	166
20231231 2150	4.4	103
20231231 2200	0.2	100
20231231 2210	1.8	330
20231231 2220	0.1	5
20231231 2230	0.7	44
20231231 2240	1.1	56
20231231 2250	0.4	34
20231231 2300	0.1	122
20231231 2310	0.7	110
20231231 2320	0.1	102
20231231 2330	0.3	13
20231231 2340	1.3	2
20231231 2350	0.1	28

Appendix I 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
Total	420,745.38	0.00	0.00	409,834	0.00	7,925.54	0.00	0.00	0.00	27.73	0.00	259.93	2,697.81

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 J Joint Environmental Site Inspection Records

Follow up action for previous Site Inspection:




1. 6 November 2023 observation 1 - The outside surrounding of the scaffolding has been covered by dust screen, sheeting or netting at Portion D.

Observation(s):

1. The general waste shall be removed and disposed in the enclosed bin at Portion D.
2. The muddy water which is caused from the watering at the Portion D is found. The deposited silt and grit are found under the construction materials at the Portion D.
3. The dust dispersion is observed in the site.

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

1. The contractor has been recommended to clean up the site regularly and provide enough enclosed bin on-site to keep the site clean and tidy.
2. The contractor has been reminded that the muddy water should be collected from the proper channel and final to the silt removal facility for treatment. The deposited silt and grit under the construction materials at the Portion D should be removed.
3. The contractor has been advised to regularly water the works area and provide enough sprayers to dampen the surface of construction materials and the site, especially during the work process, to minimize dust dispersion.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/		
Name:	Joan Lo	/	Matt Choy/Kristy Wong	Sylvia Ho
Date:	04 December 2023	/	04 December 2023	04 December 2023

Follow up action for previous Site Inspection:




1. 6 November 2023 Observation 2 – The deposited silt and grit under the tower crane at Portion A had been removed.
2. 6 November 2023 Observation 3 – The enclosed bins at the SBA had been labelled as “type of waste”.
3. 20 November 2023 Observation 2 – The waste at the waste skip of SBA was removed and the enclosed bins at the SBA had been labelled as “type of waste”.
4. 4 December 2023 Observation 3 - The water spraying by the water truck was arranged from the contractor on the site to ensure that the site was wetted.

Observation(s):

1. The accumulated uprooting of trees at portion E4 is observed.

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

1. The contractor has been advised to regularly water the uprooted trees to prevent dust dispersion and arrange for regular disposal to avoid accumulation.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/		
Name:	Joan Lo	/	Matt Choy/Kristy Wong	Sylvia Ho
Date:	11 December 2023	/	11 December 2023	11 December 2023

Follow up action for previous Site Inspection:





1. 4 December 2023 Observation 1 – The general waste was removed to ensure the site clean and tidy.
2. 4 December 2023 Observation 2 – The muddy water, and the deposited silt and grit were cleaned and removed at Portion D.
3. 11 December 2023 Observation 1 – The accumulated uprooting of tree at portion E4 was removed and disposed.
4. 18 December 2023 Observation 1 – Stockpiling of dusty material was covered by impervious sheet at Portion D.

Observation(s):

1. Stockpiling of dusty material without covered by impervious sheet at Portion D is observed.
2. Insufficient silt fence around the stockpile area at SBA is observed.

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

1. The contractor has been reminded that stockpiling of dusty material should be covered by impervious sheet at Portion D to prevent dust dispersion.
2. The contractor has been advised to provide and maintain sufficient silt fence around the stockpile area in each layer, ensuring that each layer effectively prevents sediment from entering the surface water drainage system.
3. The contractor has been recommended that the exposed slope surface at SBA should be covered by an impervious sheet in the short term and should be shotcrete or other measurements for long-term surface protection.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:				
Name:	Joan Lo	Echo Hung	Matt Choy/Kristy Wong	Sylvia Ho
Date:	18 December 2023	18 December 2023	18 December 2023	18 December 2023

Follow up action for previous Site Inspection:




1. 18 Dec 2023 Observation 2 – Temporary silt fences around soil stockpile area was provided.

Observation(s):

1. Assess road is dry and fugitive dust is observed, especially at portion E4.
2. Exposed slope surface without covered by tarpaulin sheets at portion E4 is observed.
3. Dusty materials without covered by impervious sheet at portion E4 is observed.

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

1. The contractor has been recommended to arrange watering and provide enough sprayers to minimize dust dispersion at all assess road.
2. The contractor has been advised that the exposed slope surface at portion E4 should be covered by tarpaulin sheets or other measurement like shotcrete or hydroseeding for long term slope surface protection.
3. The contractor has been reminded that the dusty materials should be covered with impervious sheet to prevent dust suppression.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/		
Name:	Joan Lo	/	Matt Choy/Kristy Wong	Jackie Tam.
Date:	27 December 2023	/	27 December 2023	27 December 2023

Appendix K Environmental Mitigation Implementation Schedule (EMIS)

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

EIA Ref.	EM&A Log Ref.	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Air Quality								
S3.8.1	S3.1.8	B7 – B36	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation.	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	Entire NENT Landfill Extension site	To control the dust impact to within the criteria of EIA Report (Register No. AEIAR-111/2007)	# (Refer to Appendix J (1) 27 Dec 2023 Weekly Site Inspection Observation 2 (2) 27 Dec 2023 Weekly Site Inspection Observation 3)
		B4, B15 & B18	<ul style="list-style-type: none"> Dust emission from construction vehicle movement is confined within the worksites area. 					# (Refer to Appendix J 27 Dec 2023 Weekly Site Inspection Observation 1)
		B11 – B12	<ul style="list-style-type: none"> 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
		-	<ul style="list-style-type: none"> Good site practice is recommended during construction phase. 					✓
Construction Noise								
S4	S4.9	C1	1) Use of good site practices to limit noise emissions by considering the following: (a) Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme;	Control construction airborne noise by means of good site practices	Contractor	Entire construction site	Noise Control Ordinance	✓
		C2	(b) Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;					✓
		C3	(c) Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs;					✓
		C4	(d) Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;					N/A
		C5	(e) Mobile plant should be sited as far away from NSRs as possible and practicable;					✓
		C6	(f) Material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.					✓
S4	S4.9	C11 – C13	2) Select “Quiet plants” which comply with the BS 5228 Part 1 or TM standards.	Reduce the noise levels of plant items	Contractor	Entire construction site	Noise Control Ordinance & its TM Annex 5, TM-EIA	✓
Construction Runoff								
S5.8.1	S5.2.1	D1	<u>Construction on Site Runoff</u> (a) At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. (b) Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities.	Control construction runoff and erosion from site surface, drainage channel, stockpiles, wheel washing facilities, etc to minimize water quality during construction stage	Contractor	Entire Construction site	ProPECC PN 1/94 Water Pollution Control Ordinance	(a) The perimeter cut-off drains are establishing in progress (Completion: 85%) (b) ✓
		D2	<ul style="list-style-type: none"> (a) The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. (b) Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a silt/sediment trap. (c) The sediment/silt traps should be incorporated in the permanent drainage channels to enhance deposition rates. 					(a) N/A (b) ✓ (c) ✓
		D3	<ul style="list-style-type: none"> The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silts and sediment traps should be 5 minutes under maximum flow conditions. 					✓

Remarks:

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

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

EIA Ref.	EM&A Log Ref	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Construction Runoff (Cont'd)								
S5.8.1	S5.2.1	D4	<ul style="list-style-type: none"> (a) Construction works should be programmed to minimize surface excavation works during the rainy seasons (April to September). (b) All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. (c) If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means. 	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) ✓ (c) # (Refer to Appendix J 27 Dec 2023 Weekly Site Inspection Observation 2)
		D5	<ul style="list-style-type: none"> (a) The overall slope of the site should be kept to a minimum to reduce the erosive potential of surface water flows, and all traffic areas and access roads protected by coarse stone ballast. (b) 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. 					(a) ✓ (b) N/A
		D6	<ul style="list-style-type: none"> (a) All drainage facilities and erosion and sediment control structures should be regularly inspected and (b) maintained to ensure proper and efficient operation at all times and particularly following rainstorms. (c) Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas. 					(a) ✓ (b) ✓ (d) ✓
		D7	<ul style="list-style-type: none"> (a) Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. (b) Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities. 					(a) ✓ (b) ✓
		D8	<ul style="list-style-type: none"> Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50 m³ should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system. 					✓
		D9	<ul style="list-style-type: none"> (a) Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as (b) to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers. 					(a) ✓ (b) ✓
		D10	<ul style="list-style-type: none"> Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes. 					✓
		D11	<ul style="list-style-type: none"> (a) All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. (b) An adequately designed and sited wheel washing bay should be provided at every construction site exit. (c) Wash-water should have sand and silt settled out and removed at least on a weekly basis (d) to ensure the continued efficiency of the process. (e) The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains. 					(a) ✓ (b) ✓ (c) ✓ (d) ✓ (c) ✓
		D12	<ul style="list-style-type: none"> (a) Oil interceptors should be provided in the site drainage system downstream of any oil/fuel pollution sources. (b) The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. (c) A bypass should be provided for the oil interceptors to prevent flushing during heavy rain. 					(a) N/A (b) N/A (c) N/A
		D13	<ul style="list-style-type: none"> Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts. Requirements for solid waste management are detailed in Section 6 of this Report. 					✓
		D14	<ul style="list-style-type: none"> All fuel tanks and storage areas should be provided with docks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearby. 					✓
		D15	<ul style="list-style-type: none"> To prevent pollution risks arising from works area (waste reception area) and haul roads, intercepting bund or barrier along the roadside should be constructed. 					N/A

Remarks:

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

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

EIA Ref.	EM&A Log Ref	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Construction Runoff (Cont'd)								
S5.8.1	S5.2.1	D19	<u>Sewage Effluent from Workforce</u> <ul style="list-style-type: none"> (a) Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. (b) A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance. 	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	✓
		D20	<ul style="list-style-type: none"> Notices will be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the Project. 					N/A
		-	<ul style="list-style-type: none"> Regular environmental audit on the construction site can provide an effective control of any malpractices and can achieve continual improvement of environmental performance on site. 					✓
S5.8.1	S5.2.1	D21	<u>Accidental Spillage of Chemical</u> <ul style="list-style-type: none"> (a) Any service workshop and maintenance facilities shall be located within a bunded area, and sumps and oil interceptors shall be provided. (b) Maintenance of equipment involving activities with potential for leakage and spillage will only be undertaken within the areas. 	Control of chemical leakage	Contractor	Service workshop and maintenance facilities	ProPECC PN 1/94 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> <p>a. Preserve Natural Vegetation This Best Management Practices will involve preserving natural vegetation to the greatest extent possible during the construction process. and after construction where appropriate. Maintaining natural vegetation is the most effective and inexpensive form of erosion prevention control.</p>	Erosion control	Contractor	Drainage system	ProPECC PN 1/94 Water Pollution Control Ordinance	✓
		-	<p>b. Provision of Buffer Zone A buffer zone consists of an undisturbed area or strip of natural vegetation or an established suitable planting adjacent to a disturbed area that reduces erosion and runoff. The rooted vegetation holds soils acts as a wind break and filters runoff that may leave the site.</p>					✓
		-	<p>c. Seeding (Temporary/Permanent) A well-established vegetative cover is one of the most effective methods of reducing erosion. Vegetation should be established on construction sites as the slopes are finished, rather than waiting until all the grading is complete. Besides, Hydroseeding will be applied on the surface of stockpiled soil and on temporary soil covers for inactive tipping areas to prevent soil erosion during rainy season.</p>					✓
		-	<p>d. Ground Cover Ground Cover is a protective layer of straw or other suitable material applied to the soil surface. Straw mulch and/or hydromulch are also used in conjunction with seeding of critical areas for the establishment of temporary or permanent vegetation. Ground cover provides immediate temporary protection from erosion. Mulch also enhances plant establishment by conserving moisture, holding fertilizer, seed, and topsoil in place, and moderating soil temperatures.</p>					To be implemented
		-	<p>e. Hydraulic Application Hydraulic application is a mechanical method of applying erosion control materials to bare soil in order to establish erosion-resistant vegetation on disturbed areas and critical slopes. By using hydraulic equipment, soil amendments, mulch, tackifying agents, Bonded Fiber Matrix (BFM) and liquid co-polymers can be uniformly broadcast, as homogenous slurry, onto the soil. These erosion and dust control materials can often be applied in one operation.</p>					To be implemented
		-	<p>f. Sod Establishes permanent turf for immediate erosion protection and stabilizes rainageways.</p>					✓
		-	<p>g. Matting There are numerous erosion control products available that can be described in various ways, such as matting, blankets, fabric and nets. These products are referred as matting. A wide range of materials and combination of materials are used to produce matting including, but not limited to: straw, jute, wood fiber, coir (coconut fiber), plastic netting, and Bonded Fiber Matrix. The selection of matting materials for a site can make a significant difference in the effectiveness of the Best Management Practices.</p>					✓

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

EIA Ref.	EM&A Log Ref	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Erosion Control Measures (Cont'd)								
S5.8.2	S5.2.2		h. Plastic Sheetting Plastic Sheetting will provide immediate protection to slopes and stockpiles. However, it has been known to transfer erosion problems because water will sheet flow off the plastic at high velocity. This is usually attributable to poor application, installation and maintenance.	Erosion control	Contractor	Drainage system	ProPECC PN 1/94 Water Pollution Control Ordinance	✓
		-	i. Dust Control Dust Control is one preventative measure to minimize the wind transport of soil, prevent traffic hazards and reduce sediment transported by wind and deposited in water resources.					✓
Surface Water Drainage System								
S5.8.2	S5.2.2	D22	<ul style="list-style-type: none"> (a) Temporary surface water drainage system will be provided to manage runoff during construction and operation. (b) This system will consist of channels as constructed around the perimeter of the site area. (c) This system will collect surface water from the areas of higher elevations to those of lower elevations and ultimately to the point of discharge. (d) Erosion will therefore be minimised. 	Surface Water Management/ Control run off	Contractor	Surface water system Construction	Water Pollution Control Ordinance TM-water	(a) ✓ (b) ✓ (c) ✓ (d) ✓
		D23	<ul style="list-style-type: none"> (a) The temporary surface water drainage system will include the use of a silt fence around the soil stockpile areas to prevent sediment from entering the system. (b) Regular cleaning will be carried out to prevent blockage of the passage of water flow in silt fence. 					(a) # (Refer to Appendix J 18 Dec 2023 Weekly Site Inspection Observation 2) (b) ✓
		-	<ul style="list-style-type: none"> Intermediate drainage system will be installed for filled cell/phase. The major purpose of the intermediate drainage system is to prevent the clean surface water run-off from the filled phases coming into contact with the waste mass in active cell and to prevent excessive surface water infiltration through the intermediate cover, thus contribute to increasing volume of leachate. The intermediate drainage system will collect the clean surface water run-off and divert it to the permanent discharge channels connected to the public drainage system. 					N/A
		-	<ul style="list-style-type: none"> In addition, surface flow from the haul road (especially near the wheel washing facility) will be collected to a dry weather flow interceptor and conveyed to the on-site leachate treatment plant for further treatment. 					N/A
Waste Management								
S6	WM1	-	<u>C&D Materials</u> <ul style="list-style-type: none"> Implement proper waste management measures during construction phase as stipulated in the Environmental Management Plan (EMP) in accordance with the ETWB TC(W) No. 19/2005 Environmental Management in Construction Sites. 	Good site practice to minimise C&D waste generation and reuse/recycle all C&D on-site as far as possible	Contractor	Entire construction site	Waste Disposal Ordinance ETWB TC(W) No. 19/2005 DEVB TC(W) No. 6/2010	✓
		-	<ul style="list-style-type: none"> Implement a trip-ticket system to ensure that the movement of C&D materials are properly documented and verified in accordance with DEVB TC(W) No. 6/2010. Copies/counterfoils from trip-tickets (with quantities of C&D Materials off-site) should be kept for record purposes. 					✓
		-	<ul style="list-style-type: none"> Appropriate waste management should be implemented in accordance with the ETWB TC(W) No. 19/2005. 					✓
		E4	<ul style="list-style-type: none"> (a) Make provisions in Contract documents to allow and promote the use of recycled aggregates where appropriate. Ensure material balance in terms of excavated C&D materials in the design of NENT landfill extension project. (b) The contract specifications should specify no excavated materials should be removed from the landfill extension site, but should be fully reused. 					(a) ✓ (b) ✓
		E5	<ul style="list-style-type: none"> Careful design, planning and good site management to minimise over-ordering and waste materials such as concrete, mortars and cement grouts. (a)(b) The design of formwork should maximise the use of standard wooden panels so that high reuse levels can be achieved. (c) Alternatives such as steel formwork or plastic fencing should be considered to increase the potential for reuse. 					(a) ✓ (b) ✓ (c) ✓
		E6	<ul style="list-style-type: none"> (a) The Contractor should recycle as much as possible the C&D waste on-site through proper waste segregation on-site. (b) Concrete and masonry should be used as general fill and steel reinforcement bars can be used by scrap steel mills. (c) Proper areas should be designated for waste segregation and storage wherever site conditions permit. (d) Maximise the use of reusable steel formwork to reduce the amount of C&D material. 					(a) ✓ (b) ✓ (c) ✓ (d) ✓

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

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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 be recycled if the volume warrant collection by recyclers. Participation in community waste paper recycling programme should be considered by the Contractor, including waste paper, aluminium cans, plastic bottles, waste batteries, etc.					✓
LFG								
Within NENT Landfill Extension								
S7	LFG1	F1	Special LFG precautions should be taken due to close proximity of NENT landfill extension site to existing landfill to avoid potential hazards of LFG exposure (ignition, explosion, asphyxiation, toxicity).	To minimise the risk of LFG hazards to personnel in construction site	Contractor	Entire construction site	Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97) F&IU (Confined Spaces) Regulations Code of Practice on Safety and Health at Work in Confined Spaces	N/A
	LFG2	F2	Prominent safety warning signs should be erected on-site to alert all personnel and visitors of LFG hazards during excavation works.					✓
	LFG3	F3	No smoking or burning should be permitted on-site.					✓
	LFG4	F4	Prominent 'No smoking' and 'No Naked Flames' signs should be erected on-site.					✓
	LFG5	F5	No worker should be allowed to work alone at any time in excavated trenches or confined areas on-site.					✓
	LFG6	F6	Adequate fire fighting equipment should be provided on-site.					✓
	LFG7	F7	Construction equipment should be equipped with vertical exhaust at least 0.6m above ground installed with spark arrestors.					✓
	LFG8	F8	Electrical motors and extension cords should be explosion-proof and intrinsically safe for use on-site.					✓
	LFG9	F9	'Permit to Work' system should be implemented.					✓
	LFG10	F10	Welding, flame-cutting or other hot works should be conducted only under 'Permit to Work' system following clear safety requirements, gas monitoring procedures and presence of qualified persons to supervise the works.					✓
	LFG11	F11	(a) For piping assembly or conduit construction, all valves and seals should be closed immediately after installation to avoid accumulation and migration of LFG. (b) If installation of large diameter pipes (diameter >600mm) is required, the pipe ends should be sealed on one side during installation. (c) Forced ventilation is required prior to operation of installed pipeline. (d) Forced ventilation should also be required for works inside trenches deeper than 1m.					(a) N/A (b) N/A (c) N/A (d) N/A
	LFG12	F12	Frequency and location of LFG monitoring within excavation area should be determined prior to commencement of works. LFG monitoring in excavations should be conducted at no more than 10mm from exposed ground surface.					✓
	LFG13	F13	For excavation works, LFG monitoring should be conducted (1) at ground surface prior to excavation, (2) immediately before workers entering excavations, (3) at the beginning of each half-day work, and (4) periodically throughout the working day when workers are in the excavation.					✓
	LFG14	F14	Any cracks on ground level encountered on-site should be monitored for LFG periodically. Appropriate action should be taken in accordance with the action plan in Table 7.6 of EIA Report.					✓
	LFG15	F15	(a) LFG precautionary measures involved in excavation and piping works should be provided in accordance with LFG Guidance Note and included in Safety Plan of construction phase. (b) Temporary offices or buildings should be located where free LFG has been proven or raised clear of ground at a separation distance of at least 500mm.					(a) N/A (b) N/A

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

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

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Ecology								
General Protection Measures:								
S10	E1	-	Restriction of construction activities to the work areas that would be clearly demarcated.	To minimise environmental impacts and therefore potential ecological impacts within and near the construction site	Contractor	Entire construction site	Practice Note for Professional Persons (ProPECC), Construction Site Drainage (PN1/94)	✓
	E2	-	Reinstatement of the work areas immediately after completion of the works.					✓
	E3	-	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme.					✓
	E4	-	Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.					✓
	E5	-	Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs.					✓
	E6	-	Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works.					N/A
	E7	-	Mobile plant should be sited as far away from NSRs as possible and practicable.					✓
	E8	-	Material stockpiles, site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.					✓
	E9	-	Use of "quiet" plant and working methods.					✓
	E10	-	Construction phase mitigation measures in the Practice Note for Professional Persons on Construction Site Drainage.					✓
	E11	-	Design and set up of the temporary on-site drainage system will be undertaken by the contractor prior to the commencement of construction.					✓
	E12	-	Design and incorporation of silt/sediment traps in the permanent drainage channels to enhance deposition rates and regular removal of repositied silt and grit.					✓
	E13	-	Minimization of surface excavation works during the rainy seasons (April to September), and in particular, control of silty surface runoff during storm events, especially for areas located near steep slopes.					N/A
	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

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Appendix L Construction Site Activities

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

Remark:

PYE is the Sub-contractor for this project

Appendix M Mitigation Measures of Cultural Landscape Features

DO NOT SCALE DRAWING. CHECK ALL DIMENSIONS ON SITE.
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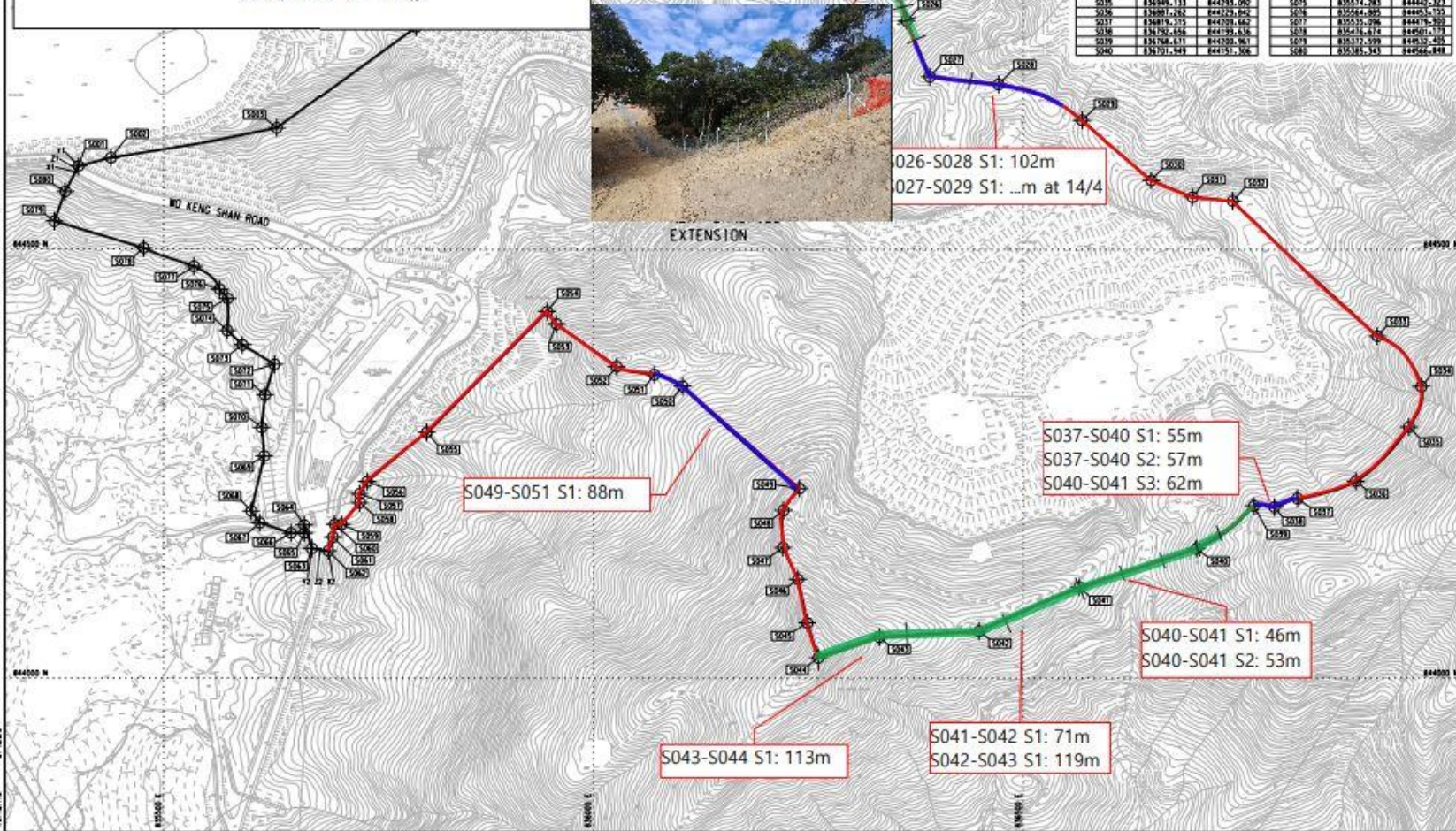


SB Fencing Progress Report as @ 13.3.2023

Start Date: 11.1.2023

Legend

- Proposed fencing length = 3055 m
- Completed footing 1252/3055 m = 41%
- Completed chain link fence 1006/3055 m = 33%



CO-ORDINATES FOR SITE BOUNDARY

SETTING OUT POINT	EASTING	NORTHING
S001	835400.763	844596.681
S002	835436.439	844596.228
S003	835431.400	844641.024
S004	835392.642	844752.456
S005	834876.959	844879.715
S006	834536.245	844938.566
S007	833971.578	844949.837
S008	834012.283	845045.827
S009	834071.422	845091.071
S010	834012.283	845115.203
S011	834012.283	845120.132
S012	834071.422	845202.456
S013	834093.064	845249.446
S014	834098.244	845286.234
S015	834114.608	845353.991
S016	834146.485	844883.801
S017	834176.396	844961.955
S018	834211.023	844947.723
S019	834238.014	844932.211
S020	834254.713	844912.619
S021	834276.337	844882.156
S022	834312.248	844875.461
S023	834336.358	844846.516
S024	834376.385	844816.428
S025	834353.384	844833.702
S026	834364.427	844766.813
S027	834376.385	844766.428
S028	834471.540	844832.562
S029	834566.625	844850.735
S030	834649.132	844880.613
S031	834691.024	844941.018
S032	834744.086	844956.490
S033	834812.213	844939.086
S034	834836.465	844949.241
S035	834848.113	844933.062
S036	834881.282	844929.892
S037	834836.465	844929.892
S038	834792.646	844993.638
S039	834748.611	844930.961
S040	834701.949	844931.306

SETTING OUT POINT	EASTING	NORTHING
S041	834582.887	844106.358
S042	834448.443	844064.136
S043	834332.773	844048.500
S044	834261.595	844032.718
S045	834249.241	844064.518
S046	834218.243	844115.480
S047	834220.400	844152.506
S048	834212.176	844166.739
S049	834219.876	844217.358
S050	834103.489	844306.447
S051	834070.891	844354.689
S052	834026.843	844361.917
S053	833996.335	844313.126
S054	833944.240	844271.911
S055	833896.399	844264.410
S056	833836.615	844236.429
S057	833721.882	844215.710
S058	833728.112	844204.403
S059	833706.353	844176.372
S060	833698.933	844176.738
S061	833696.895	844166.917
S062	833687.380	844146.362
S063	833672.232	844131.583
S064	833668.311	844116.479
S065	833664.443	844106.397
S066	833648.526	844106.327
S067	833641.614	844111.518
S068	833637.144	844134.567
S069	833636.871	844128.437
S070	833631.597	844106.327
S071	833624.296	844106.327
S072	833618.967	844106.327
S073	833614.283	844106.327
S074	833613.892	844076.125
S075	833614.283	844043.123
S076	833604.895	844060.125
S077	833595.296	844019.803
S078	833584.614	844001.179
S079	833572.599	844032.492
S080	833565.343	844066.848

CO-ORDINATES FOR VEHICULAR ACCESS

SETTING OUT POINT	EASTING	NORTHING
11	835397.108	844989.614
12	835430.161	844976.687
21	835398.934	844933.141
22	835401.380	844146.162
23	835421.232	844511.163
24	835401.620	844149.363

LEGEND

- SITE BOUNDARY
- SETTING OUT POINT

0	ISSUE FOR TENDER	SS	12/20
Rev	Description	By	Date
<p>Consultant ARUP 奧雅納工程顧問 One Amis & Partners Hong Kong Limited</p>			
<p>Project title Contract No. EP/SP/77/15 North East New Territories Landfill Extension</p>			
<p>Drawing title SETTING OUT DETAILS OF SITE BOUNDARY</p>			
Drawing No.	215523/01/016	Rev.	0
Drawn By	Date	Checked By	Approved By
Scale	1:2500 (A1)	Status	TENDER
COPYRIGHT RESERVED			
環境保護署 Environmental Protection Department			

Appendix N Detail Status of EP Submission

Detail Status of Submissions required under the FEP & EP

FEP Condition	EP Condition	Submission / Measures	Status
2.1	2.3	Management Organization of Main Construction Companies	Submission Date (12 Oct 2022)
2.2	2.4	Setting up of Community Liaison Group (CLG)	Submission Date (12 Oct 2022) 1 st CLG meeting (12 Jan 2023)
2.3	2.5	Submission of EM&A Manual	Submission Date (12 Oct 2022)
2.4	2.6	Submission of Preservation of Cultural Landscape Features	Survey and Preservation of Grave Records: Submission Date (15 Oct 2022) Survey and Preservation of Boulder Paths: Submission Date (3 Aug 2023)
2.5	2.7	Submission of Vegetation Survey (Transplantation Proposal)	Submission Date (2 September 2022)
2.6	2.8	Submission of translocation proposal	Submission Date (8 July 2022)
2.7	2.9	Submission of Transplantation Report and Post-Transplantation Monitoring	Submission Date (19 Jan 2023) 1 st monitoring (24 Nov 2022) 2 nd monitoring (9 Dec 2022) 3 rd monitoring (21 Dec 2022) 4 th monitoring (13 Jan 2023) 5 th monitoring (26 Jan 2023) 6 th monitoring (8 Feb 2023) 7 th monitoring (24 Feb 2023) 8 th monitoring (20 Mar 2023) 9 th monitoring (21 Apr 2023) 10 th monitoring (17 May 2023) 11 th monitoring (16 Jun 2023) 12 th monitoring (12 Jul 2023) 13 th monitoring (11 Aug 2023) 14 th monitoring (15 Sep 2023) 15 th monitoring (13 Oct 2023)

FEP Condition	EP Condition	Submission / Measures	Status
2.8	2.10	Submission of Translocation Report and Post-Translocation Monitoring	<p>Translocation was carried out in July 2022</p> <p>Submission Date (27 December 2022)</p> <p>1st monitoring (29 Aug 2022)</p> <p>2nd monitoring (28 Sep 2022)</p> <p>3rd monitoring (28 Oct 2022)</p> <p>4th monitoring (28 Oct 2022)</p> <p>5th monitoring (29 Dec 2022)</p> <p>6th monitoring (30 Jan 2023)</p> <p>7th monitoring (24 Feb 2023)</p> <p>8th monitoring (20 Mar 2023)</p> <p>9th monitoring (19 Apr 2023)</p> <p>10th monitoring (12 May 2023)</p> <p>11th monitoring (7 Jun 2023)</p> <p>12th monitoring (18 Jul 2023)</p>
2.9	2.11	Submission of Detailed Landfill Gas Hazard Assessment Report	Submission Date (6 Oct 2022)
2.10	2.12	Submission of Waste Management Plan	Submission Date (30 Dec 2022)
3.2	3.2	Submission of Baseline Monitoring Report	Submission Date (30 Nov 2022)

Appendix O Cumulative complaint / enquiry log, Summaries of complaints and enquiries

Environmental Complaints Log

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

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

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

Remarks:

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

Environmental Enquiries Log

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

Remarks:

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

Cumulative Statistics on Complaints

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

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