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

Monthly Environmental Monitoring and Audit Report (No. 18) – May 2024

2024-06-14

aurecon

Bringing ideas to life

MEINHARDT
Consulting Engineers . Planners . Managers
工程顧問 . 策劃 . 統籌

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

10/F Genesis
33-35 Wong Chuk Hang Road
Hong Kong
香港黃竹坑道33-35號
創協坊10樓

Tel 電話: +852 2858 0738
Fax 傳真: +852 2540 1580

mail@meinhardt.com.hk
www.meinhardt-china.com
www.meinhardtgroup.com

Our Ref.: CL/91823/1327-VES
Date: 14 June 2024

By Email

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

Attn.: Mr. Colin Mitchell

Dear Sir

Re: Contract No. EP/SP/77/15
North-East New Territories Landfill Extension (NENTX)
Monthly Environmental Monitoring and Audit Report (No.18) – May 2024

I refer to Condition 3.3 under Environmental Permit No. EP-292/2007 and Further Environmental Permit No. FEP-01/292/2007 and FEP-02/292/2007, regarding the submission of a monthly Environmental Monitoring and Audit report. I hereby verify the captioned "Monthly Environmental Monitoring and Audit Report (No.18) – May 2024" dated 14 June 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

50th Anniversary
your FIRSTCHOICE | Innovative • High-quality • Value-added Solutions
Adelaide • Auckland • Bangkok • Beijing • Bahrain • Brisbane • Birmingham • Chennai • Coimbra • Danang • Dubai • Delhi • Egypt • Gurgaon • Golden Coast • Glasgow • Ho Chi Minh City • Hong Kong • Hanoi • Islamabad • Istanbul • Ireland • Japan • Jakarta • Johor Bahru • Karachi • Kenya • Kuala Lumpur • Kuwait • Lahore • London • Lisbon • Macau • Manila • Muzaffarabad • Myanmar • Melbourne • Malta • New York City • Nepal • Noida • Oman • Phnom Penh • Perth • Peshawar • Qatar • Riyadh • Reading • Shanghai • Shenzhen • Singapore • Saudi Arabia • Sydney • Uae • Yangon

Aurecon Hong Kong Limited
Unit 1608, 16/F, Tower B,
Manulife Financial Centre,
223 – 231 Wai Yip Street, Kwun Tong
Hong Kong

T +852 3664 6888
F +852 3664 6999
E hongkong@aurecongroup.com
w aurecongroup.com

Ref: P521530-0000-REP-NN-0090

By Email

14 June 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.18) – May 2024 r1

In accordance with the requirement specified in Condition 3.3 of Environmental Permit No. EP-292/2007 and Further Environmental Permit No. FEP-02/292/2007, we are pleased to submit the certified "Monthly Environmental Monitoring and Audit Report (No.18) – May 2024 r1" dated 14 June 2024 for your verification.

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

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

Fredrick Leong
Environmental Team Leader

Encl.
1. Monthly Environmental Monitoring and Audit Report (No.18) – May 2024 r1

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

Document Control Record

Document prepared by:

Aurecon Hong Kong Limited
Unit 1608, 16/F, Tower B, Manulife Financial Centre,
223 – 231 Wai Yip Street, Kwun Tong, Kowloon
Hong Kong S. A. R.
T +852 3664 6888
F +852 3664 6999
E hongkong@aurecongroup.com
W aurecongroup.com

A person using Aurecon documents or data accepts the risk of:

a) Using the documents or data in electronic form without requesting and checking them for accuracy against the original hard copy version.

b) Using the documents or data for any purpose not agreed to in writing by Aurecon.

Document control						
Report title	Monthly Environmental Monitoring and Audit Report (No. 18) – May 2024					
Document ID		**Project number**				
File path						
Client	Veolia Hong Kong Holding Ltd.					
Client contact		**Client reference**				
Rev	**Date**	**Revision details/status**	**Author**	**Reviewer**	**Verifier** (if required)	**Approver**
0	7 June 2024	Submit to IEC	J Man	K.Chau		FL
1	14 June 2024	Submit to IEC	J Man	K.Chau		FL
Current revision	1					

Approval			
Reviewer's signature		Approver's signature	
Name	Keith Chau	Name	Fredrick Leong
Title	Associate, Environmental	Title	Environmental Team Leader

Contents

Figure

Appendix

All rights reserved | The information/data furnished in our document is confidential and competitive information proprietary to Aurecon or its subcontractors, the release of which would harm the competitive position of Aurecon or its sub-contractors/consultants. This information/data shall not be reproduced, stored in a retrieval system, transmitted in any form or by any means, used or disclosed in whole or in part, for any purpose other than to evaluate and adjudicate this document. If Aurecon is shortlisted or a contract is awarded to Aurecon as a result of this solicitation, or in connection with the submission of such information/data, the right (and the extent thereof) to reproduce, store, transmit, use or disclose this information/data must, by agreement, be included in such contract.

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 18th Monthly EM&A Report presents the EM&A works conducted from 1 to 31 May 2024 in accordance with the EM&A Manual.

Summary of Construction Works undertaken during Report Period

The major construction works undertaken during the reporting period include:

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

Environmental Monitoring and Audit Progress

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

	Items	Times	Date
-	Air Quality Monitoring during normal weekdays at each monitoring station	6 times	2, 8, 14, 20, 25 & 31 May 2024
-	Construction Noise Monitoring during normal weekdays at each monitoring station	5 times	2, 8, 14, 20 & 31 May 2024
-	Surface Water Quality Monitoring during normal weekdays at each monitoring station	1 time	8 May 2024
-	Landfill Gas Monitoring during normal weekdays for Construction Works	23 times	2 to 4, 6 to 11, 13 to 14, 16 to 18, 20 to 25 & 27 to 29 May 2024
-	Joint Environmental Site Inspection	4 times	6, 13, 20 & 27 May 2024
-	Site Inspection from EPD-RNG	1 time	30 May 2024

Environmental Exceedance

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

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

Environmental Non-Conformance/Complaint/Summons and Prosecution

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

One complaint received on 9 May 2024 was reported during the reporting period. The complaint was investigated by related parties on 13, 20 and 30 May 2024. The related investigation results will be presented when the investigation was finished.

No summons/prosecutions were received in the reporting period.

Reporting Change

There was no reporting change in the reporting period.

Future Key Issues

Works to be undertaken in the next month include:

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

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

1 Introduction

1.1 Background

1.1.1 The North East New Territories Landfill Extension (the NENTX Project) is located adjacent to the existing North East New Territories (NENT) Landfill at Ta Kwu Ling. The extension site is located in a valley covering mainly the existing NENT Landfill Stockpile and Borrow Area that was formed to the east of the existing landfill as part of the original site development of the landfill, and layout plan shown in **Figure 1**.

1.1.2 The NENTX is a designated project. The Environmental Impact Assessment (EIA) Report (AEIAR-111/2007) and an Environmental Monitoring and Audit Manual were approved on 20 September 2007. The project is governed by an Environmental Permit (EP) (EP-292/2007) which was granted on 26 November 2007. A further of EP (FEP) was applied and the FEP (FEP-01/292/2007) was subsequently granted on 28 April 2022. Another further of EP (FEP-02/292/2007) was subsequently granted on 23 August 2023.

1.1.3 In accordance with the requirements specified in Section 2.7 to 2.11 and Section 12.3 of the approved Environmental Monitoring and Audit (EM&A) Manual and Environmental Permit and Further Environmental Permit (EP and FEP) Condition 3.3, Monthly EM&A report should be submitted to the Director of Environmental Protection (DEP), within 2 weeks after the end of the reporting month. The submissions shall be certified by the Environmental Team (ET) Leader and verified by the Independent Environmental Checker (IEC).

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

1.2 Nature, Scale and Scope of the captioned Designated Project

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

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

Item(s)	Content
Nature of Designated Project	Construction and operation of a landfill for waste as defined in the "Waste Disposal Ordinance" (Cap. 354)
Scale and Scope of Designated Project	The Project mainly consists of the followings: - Construction and operation of a landfill extension of about 70 hectares with a target void space of at least 19 million cubic metres on the eastern side of the existing NENT Landfill, including the followings: - i. Site formation and preparation; ii. Installation of liner system; iii. Installation of leachate collection, treatment and disposal facilities; iv. Installation of gas collection, utilization and management facilities; v. Utilities provisions and drainage diversion; vi. Landfilling operation; vii. Restoration and aftercare in subsequent stages; and viii. Measures to mitigate environmental impacts as well as environmental monitoring and auditing to be implemented.

1.3 Purpose of this Report

1.3.1 This is the 18th 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 May 2024.

1.4 Structure of the Report

1.4.1 The structure of the report is as follows:

Section 1 – Introduction
- details the background, purpose and structure of the report.

Section 2 – Project Information
- summarises background and scope of the Project, site description, project organization and contact details, construction programme, the construction works undertaken and the status of Environmental Permit(s)/License(s) during the reporting period.

Section 3 – Air Quality Monitoring

- Construction Dust

Section 4 – Noise Monitoring

Section 5 – Water Quality Monitoring

- Groundwater Monitoring

- Surface Water Monitoring

Section 6 – Waste Management

Section 7 – Landfill Gas Monitoring

Section 8 – Landscape and Visual

Section 9 – Cultural Heritage

Section 10 – Ecological Monitoring

Section 11 – Site Inspection and Audit

Section 12 – Environmental Non-Conformance

Section 13 – Implementation Status on Environmental Mitigation Measures

Section 14 – Future Key Issues

Section 15 – Conclusion

2 Project Information

2.1 Construction Activities

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

2.2 Project Organization & Management Structure

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

Table 2-1 Contact Information of Key Personnel

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

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

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

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

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

2.4 Status of Environmental Approval Document

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

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

Permit / Licenses / Notification	Reference	Expiry Date	Remark
Environmental Permit (EP)	EP-292/2007	Throughout the Contract	Permit granted on 26 November 2007
Further Environmental Permit (FEP)	FEP-01/292/2007	Throughout the Contract	Permit granted on 28 April 2022
	FEP-02/292/2007	Throughout the Contract	Permit granted on23 August 2023
Notification of Construction Works as required under Air Pollution Control (Construction Dust) Regulation	479809	Throughout the Construction Phase	Notified on 13 May 2022
Registration of Waste Producer under Waste Disposal Ordinance	7043692	Throughout the Contract	Registered on 13 April 2022
Construction Noise Permit	GW-RN0240-24	7 June 2024	Permit granted on 1 March 2024
Registration as Chemical Waste Producer	5213-642-P1034-18	Throughout the Contract	Registered on 11 July 2022
Effluent Discharge License under Water Pollution Control Ordinance	WT00042301-2022	31 October 2027	Permit granted on 18 October 2022 Variation of Licence (Permit granted on 7 February 2023)

2.5 Environmental Monitoring and Audit Progress

2.5.1 A summary of the monitoring activities in this reporting period is presented in **Table2-4**.

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	2, 8, 14, 20, 25 & 31 May 2024
-	Construction Noise Monitoring during normal weekdays at each monitoring station	5 times	2, 8, 14, 20 & 31 May 2024
-	Surface Water Quality Monitoring during normal weekdays at each monitoring station	1 time	8 May 2024
-	Landfill Gas Monitoring during normal weekdays for Construction Works	23 times	2 to 4, 6 to 11, 13 to 14, 16 to 18, 20 to 25 & 27 to 29 May 2024
-	Joint Environmental Site Inspection	4 times	6, 13, 20 & 27 May 2024
-	Site Inspection from EPD-RNG	1 time	30 May 2024

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

23 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 20 May 2024. The Contractor has generally implemented part of the mitigation measures as recommended. One site inspection on 30 May 2024 was conducted by Environmental Protection Department-Regional Office (North) (EPD-RNG) during the reporting period.

3 Air Quality Monitoring

3.1 Construction Dust

3.1.1 Monitoring Requirement

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

3.1.2 Monitoring Parameters, Frequency and Location

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

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

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

Table 3-1 Locations of Dust Monitoring Stations

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

Remarks:

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

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

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

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

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

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

3.1.3 Monitoring Equipment

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

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

Table 3-3 Dust Monitoring Equipment

Equipment	Model	Expiry Date	Monitoring Station
High Volume Sampler (HVS)	TE-5170X (S/N: 1105)	1 Jul 2024	AM1
	TE-5170X (S/N: 1106)		AM2
	TE-5170X (S/N: 1856)		AM3
Direct Reading Dust Meter	Sibata LD-5R (S/N: 0Z4545)	27 Nov 2024	AM1 to AM3
	Sibata LD-5R (S/N: 882106)		
	Sibata LD-5R (S/N: 942532)		
Calibration Kit (for HVS)	TE-5025A (S/N: 3465)	15 Jan 2025	AM1 to AM3

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

3.1.4 Monitoring Methodology

1-hr TSP Monitoring

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

Measuring Procedures

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

Procedure of starting monitoring

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

Procedure of setting measurement timer

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

Calibration & Maintenance

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

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

Quality Audit

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

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

24-hr TSP Monitoring

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

Measuring Procedures

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

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

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

Calibration & Maintenance

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

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

The detail procedure of calibration of HVS is listed below:

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

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

3.1.5 Monitoring Results

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

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

Month	Average 1-hr TSP Concentration, µg/m³ (Range)		
	Dust Monitoring Station		
	AM1	AM2	AM3
May 2024	24 (20 – 31)	44 (39 – 51)	49 (39 – 56)
Action Level	**>285**	**>279**	**>285**
Limit Level	**>500**		

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

Month	Average 24-hr TSP Concentration, µg/m³ (Range)		
	Dust Monitoring Station		
	AM1	AM2	AM3
May 2024	115 (92 – 137)	127 (116 – 138)	118 (95 – 135)
Action Level	**>164**	**>152**	**>163**
Limit Level	**>260**		

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

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

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

Remarks: * equal to non-project related

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

3.1.6 Wind Data Monitoring

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

3.1.7 Recommended Mitigation Measures

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

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

3.1.8 Event and Action Plan

3.1.8.1 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	• Identify source • Prepare Notification of Exceedance • Inform IEC and Contractor • Repeat measurement to confirm findings • Increase monitoring frequency to daily if exceedance is due to the Project and continue until the monitoring results reduce to below action level	• Verify the Notification of Exceedance • Check monitoring data submitted by ET and Contractor's working methods • Discuss with ET and Contractor on proposed remedial measures	• Rectify any unacceptable practice • Amend working methods if appropriate
Exceedance for two or more consecutive samples	• Identify source • Prepare Notification of Exceedance • Inform Contractor and IEC • Repeat measurements to confirm findings • Increase monitoring frequency to daily if exceedance is due to the Project and continue until the monitoring results reduce to below action level • Discuss with IEC for remedial action required • Ensure remedial measures are properly implemented • Continue monitoring at daily intervals if exceedance is due to the Project • If no exceedance for 3 consecutive days, cease additional monitoring	• Verify the Notification of Exceedance • Check monitoring data submitted by ET and Contractor's working methods • Discuss with ET and Contractor on proposed remedial measures • Review with analysed results submitted by ET • Review the proposed remedial measures by Contractor • Supervise the implementation of remedial measures	• Submit proposals for remedial actions to IEC within 3 working days of notification • Implement the agreed proposals • Amend proposal if appropriate

Event	ET	IEC	Contractor
Exceedance of Limit Level			
Exceedance for one sample	• Identify source • Prepare Notification of Exceedance • Inform IEC and Contractor • Repeat measurement to confirm findings • Increase monitoring frequency to daily if exceedance is due to the Project and continue until the monitoring results reduce to below limit level • Assess effectiveness of Contractor's remedial actions and keep EPD and IEC informed of the results	• Verify the Notification of Exceedance • Check monitoring data submitted by ET and Contractor's working methods • Discuss with ET and Contractor potential remedial actions • Supervise the implementation of remedial measures	• Take immediate action to avoid further exceedance • Submit proposals for remedial actions to IEC within 3 working days of notification • Implement the agreed proposals • Amend proposal if appropriate
Exceedance for two or more consecutive samples	• Identify source • Prepare Notification of Exceedance • Inform IEC and EPD the causes and actions taken for the exceedances • Discuss with IEC for remedial action required • Ensure remedial measures are properly implemented • Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and informed of the results • Increase monitoring frequency to confirm findings • If exceedance stops, cease additional monitoring	• Verify the Notification of Exceedance • Check monitoring data submitted by ET and Contractor's working methods • Discuss amongst ET and Contractor on the potential remedial actions. • Review Contractor's remedial actions whenever necessary to assure their effectiveness • Supervise the implementation of remedial measures	• Take immediate action to avoid further exceedance • Submit proposals for remedial actions to IEC of notification • Implement the agreed proposals • Resubmit proposals if problem still not under control • Stop the relevant activity of works until the exceedance is abated

4 Noise Monitoring

4.1 Monitoring Requirement

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

4.2 Monitoring Locations, Parameters and Frequency

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

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

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

Table 4-1 Noise Monitoring Locations

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

Remarks:

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

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

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

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

Table 4-2 Noise Monitoring Parameters, Frequency and Duration

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

4.3 Monitoring Equipment

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

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

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

Table 4-3 Noise Monitoring Equipment

Equipment	Model	Expiry Date
Sound Level Meter	NTi XL2 (S/N: A2A-13661-E0)	3 Sep 2024
Acoustic Calibrator	Rion NC-75 (S/N: 34724245)	2 Aug 2024
Anemometer	RS PRO RS-90 (S/N: 210722208)	12 Feb 2025

4.4 Monitoring Methodology

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

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

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

Calibration & Maintenance

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

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

4.5 Monitoring Results

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

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

Month	Average Leq, 30min, dB(A) (Range)	
	Noise Monitoring Station	
	NM1a	NM2a
May 2024	60.6 (60.1 – 61.6)	55.4 (48.1 – 57.4)
Action Level	**When one documented complaint is received**	
Limit Level	**>75dB(A)**	

Remark:

(1) * A correction of +3 dB(A) was made to the free field measurements

(2) If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

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

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

4.5.4 The Summary of Impact Noise Exceedance are shown in **Table 4-5**.

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

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

Remarks: * equal to non-project related

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

4.6 Recommended Mitigation Measures

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

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

4.7 Event and Action Plan

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

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

Event	ET	IEC	Contractor
Exceedance of Action Level	• Identify source, investigate the causes of exceedance • Prepare Notification of Exceedance • Inform IEC and Contractor • Report the results of investigation to IEC, and Contractor • Discuss with Contractor and IEC for formulate remedial measures • Ensure remedial measures are properly implemented • Have additional monitoring if exceedance is due to the Project. If exceedance stops, cease additional monitoring	• Verify the Notification of Exceedance • Review the analysed results submitted by ET • Discuss with ET, and Contractor on the potential remedial actions • Review the proposed remedial measures • Supervise the implementation of remedial measures	• Submit noise mitigation proposals to IEC • Implement the agreed noise mitigation proposals
Exceedance of Limit Level	• Identify source, investigate the causes of exceedance • Prepare Notification of Exceedance • Inform IEC and Contractor • Repeat measurements to confirm findings • Discuss with Contractor and IEC for remedial measures • Ensure remedial measures are properly implemented • Assess effectiveness of Contractor's remedial actions and keep IEC and EPD informed of the results • Have additional monitoring if exceedance is due to the Project. If exceedance stops, cease additional monitoring	• Verify the Notification of Exceedance • Review the analysed results submitted by ET • Discuss with ET, and Contractor on the potential remedial actions • Review the proposed remedial measures • Supervise the implementation of remedial measures	• Take immediate action to avoid further exceedance • Submit proposals for remedial actions to IEC of notification • Implement the agreed proposals • Resubmit proposals if problem still not under control • Stop the relevant portion of works as determined by project proponent until the exceedance is abated.

5 Water Quality Monitoring

5.1 Groundwater Monitoring

5.1.1 Monitoring Requirement

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

5.2 Surface Water Monitoring

5.2.1 Monitoring Requirement

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

5.2.2 Monitoring Locations, Parameters and Frequency

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

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

Table 5-1 Surface Water Quality Monitoring Locations

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

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

Parameter	Frequency
pH, Electrical conductivity, DO, Turbidity, SS, Alkalinity, COD, BOD_5, TOC, Ammonia-nitrogen, TKN, Nitrate, Sulphate, Sulphite, Phosphate, Chloride, Sodium, Mg, Ca, K, Fe, Ni, Zn, Mn, Cu, Pb, Cd, Coliform Count, Oil and Grease	Once per month

5.2.3 Monitoring Equipment

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

Table 5-3 Surface Water Quality Monitoring Equipment

Equipment	Model	Expiry Date
Water Quality Meter	YSI ProDSS (S/N: 15M101091)	18 Jun 2024
Water Flow Meter	Global Water FP211 (S/N: 22K100859)	24 Jan 2025

5.2.4 Summary of Surface Water Quality Monitoring Procedure

Operational/ Analytical Procedures

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

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

Laboratory Analytical Methods

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

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

Parameters	Detection Limit (in EM&A Manual)	Limit of Reporting	Method Reference
pH	0.1	0.1	APHA 4500 H+ B
Electrical conductivity	1 mS/cm	1 mS/cm	APHA 2510 B
Alkalinity	1 mg/L	1 mg/L	APHA 2320 B
COD	10 mg/L	5 mg/L	APHA 5220 C
BOD_5	3 mg/L	2 mg/L	APHA 5210 B
TOC	1 mg/L	1 mg/L	APHA 5310 B
SS	0.1 mg/L	0.1 mg/L	APHA 2540 D
Ammonia-nitrogen	0.2 mg/L	0.01 mg/L	APHA 4500 NH3 G
TKN	0.4 mg/L	0.1 mg/L	APHA 4500Norg: D
Nitrate	0.5 mg/L	0.01 mg/L	APHA 4500 NO3 I
Sulphate	5 mg/L	1 mg/L	USEPA 375.4
Sulphite	2 mg/L	2 mg/L	APHA 4500 SO3 B
Phosphate	0.01 mg/L	0.01 mg/L	APHA 4500-P B & F
Chloride	0.5 mg/L	0.5 mg/L	USEPA 325.1
Sodium	50 mg/L	50 mg/L	USEPA 6010C
Mg	50 mg/L	50 mg/L	USEPA 6010C
Ca	50 mg/L	50 mg/L	USEPA 6010C
K	50 mg/L	50 mg/L	USEPA 6010C
Fe	50 mg/L	10 mg/L	USEPA 6010C
Ni	1 mg/L	1 mg/L	USEPA 6020A
Zn	10 mg/L	10 mg/L	USEPA 6020A
Mn	1 mg/L	1 mg/L	USEPA 6020A
Cu	1 mg/L	1 mg/L	USEPA 6020A
Pb	1 mg/L	1 mg/L	USEPA 6020A
Cd	0.2 mg/L	0.2 mg/L	USEPA 6020A
Coliform Count	1 cfu/ 100mL	1 cfu/ 100mL	DoE section 7.8, 7.9.4.1 & 3
Oil and Grease	5 mg/L	5 mg/L	APHA 5520 B

QA/ QC Requirements

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

Decontamination Procedures

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

Sampling Management and Supervision

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

Quality Control Measures for Sample Testing

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

- One method blank; and
- One sample duplicate.

5.2.5 Monitoring Results

5.2.5.1 Impact surface water quality monitoring was conducted at WM1 and WM2 on 8 May 2024. No adverse weather was observed during reporting period. The detailed monitoring schedule is shown in **Appendix D**.

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

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

Table 5-5 Summary of Impact Surface Water Monitoring Results

Monitoring Parameter(s)	Monitoring Station					
	WM1			WM2		
	Monitoring Results	Action Level	Limit Level	Monitoring Results	Action Level	Limit Level
pH	6.9	>7.7	>7.8	6.9	>7.6	>7.7
DO in mg/L	8.5	<7.4	<4	8.8	<5	<4
Turbidity in NTU	7.1	>9.2	>9.5	17.1	>108.3	>108.9
Electrical Conductivity in µS/cm	47	---	---	111	---	---
SS in mg/L	2.9	>9.7	>11.4	13.8	>94.5	>94.7
Alkalinity in mg/L	9	---		28	---	
COD in mg/L	9			6		
BOD_5 in mg/L	<2			<2		
TOC in mg/L	2			1		
Ammonia-nitrogen in mg/L	0.02			0.03		
TKN in mg/L	0.3			0.2		
Nitrate in mg/L	0.05			0.30		
Sulphate in mg/L	3			24		
Sulphite in mg/L	<2			<2		
Phosphorus in mg/L	0.01			<0.01		
Chloride in mg/L	6			5		
Sodium in µg/L	6630			5190		
Magnesium in µg/L	400			890		
Calcium in µg/L	2440			16200		
Potassium in µg/L	570			1980		
Iron in µg/L	220			1030		
Nickel in µg/L	<1			<1		
Zinc in µg/L	<10			11		
Manganese in µg/L	24			393		
Copper in µg/L	2.0			1		
Lead in µg/L	<1			2		
Cadmium in µg/L	<0.2			<0.2		
Coliform Count in cfu/100mL	4400			2100		
Oil and Grease in mg/L	<5			<5		

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

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

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

Remarks: * equal to non-project related

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

5.2.6 Recommended Mitigation Measure

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

- Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities.
- The overall slope of the site should be kept to a minimum to reduce the erosive potential of surface water flows.
- The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silts and sediment traps should be 5 minutes under maximum flow conditions.
- All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads.
- Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts.
- Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.

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

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

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

5.2.8 Event and Action Plan

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

Table 5-7 Event and Action Plan for Water Quality

Event	ET	IEC	Contractor
Action level being exceeded by one sampling day	• Repeat in situ measurement to confirm findings • Identify source(s) of impact • Prepare Notification of Exceedance • Inform IEC and Contractor • Check monitoring data, all plant, equipment and Contractor's working methods • Repeat measurement on next day of exceedance	• Verify Notification of Exceedance • Check monitoring data and Contractor's working methods	• Rectify unacceptable practice • Amend working methods if appropriate
Action level being exceeded by two or more consecutive sampling days	• Repeat in situ measurement to confirm findings • Identify source(s) of impact • Prepare Notification of Exceedance • Inform IEC and Contractor • Check monitoring data, all plant, equipment and Contractor's working methods • Discuss with Contractor and IEC for remedial measures • Ensure mitigation measures are implemented • Increase the monitoring frequency to daily until no exceedance of Action level • Repeat measurement on next day of exceedance	• Verify Notification of Exceedance • Check monitoring data and Contractor's working method • Discuss with ET and Contractor on possible remedial actions • Review the proposed mitigation measures • Supervise the implementation of mitigation measures	• Submit proposal of additional mitigation measures to IEC of notification • Implement the agreed mitigation measures • Amend proposal if appropriate

Event	ET	IEC	Contractor
Limit Level being exceeded by one sampling day	• Repeat in situ measurement to confirm findings • Identify source(s) of impact • Prepare Notification of Exceedance • Inform IEC and Contractor; • Check monitoring data, all plant, equipment and Contractor's working methods • Discuss mitigation measures with IEC and Contractor • Ensure mitigation measure are implemented	• Verify Notification of Exceedance • Check monitoring data submitted By ET and Contractor's working method • Discuss with ET and Contractor on possible remedial actions • Review the proposed mitigation measures • Supervise the implementation of mitigation measures	• Critically review the working method • Rectify unacceptable practice • Take immediate corrective actions to avoid further exceedance • Submit proposal of mitigation measures to IEC • Implement the agreed mitigation measures •
Limit level being exceeded by two or more consecutive sampling days	• Repeat in situ measurement to confirm findings • Identify source(s) of impact • Prepare Notification of Exceedance • Inform IEC, contractor and EPD • Check monitoring data, all plant, equipment and Contractor's working methods • Discuss mitigation measures with IEC and Contractor • Ensure mitigation measure are implemented	• Verify Notification of Exceedance • Check monitoring data submitted by ET and Contractor's working method • Discuss with ET and Contractor on possible remedial actions • Review the proposed mitigation measures • Supervise the implementation of mitigation measures	• Critically review the working method • Rectify unacceptable practice • Take immediate corrective actions to avoid further exceedance • Submit proposal of mitigation measures to IEC • Implement the agreed mitigation measures • Resubmit proposals if problem still not under control • Slow down or to stop relevant activity until exceedance is abated

6 Waste Management

6.1.1 Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. Non-inert C&D materials were made up of general refuse, steels and paper/cardboard packaging materials. Steel materials generated from the Project were also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are summarised in **Appendix J**.

6.1.2 A total of 1,396.88 tonnes of C&D materials was reused in the project site. A total of 42,809 tonnes of C&D materials was reused at alternative disposal ground (NENT Landfill) during the reporting period. A total of 1,022.68 tonnes of C&D materials was imported fill during the reporting period. No Yard waste (collected to Y-Park) was generated during the reporting period. A total of 90.72 tonnes of general refuse and A total of 110.1 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:

- CH_4: >10% Lower Explosion Limit (LEL);
- CO_2: >0.5%; and
- O_2: <18% by volume.

7.2 Monitoring Locations

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

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

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

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

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

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

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

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

Table 7-1 Locations of LFG Monitoring during Reporting Period

Monitoring Location	Type of works
Portion A +50 mpD to 70 mpD Platform	Excavation Works
Portion B2/E1	

7.3 Monitoring Equipment

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

Table 7-2 LFG Monitoring Equipment

Monitoring Parameters	Equipment	Model	Expiry Date
CH_4, CO_2 & O_2	Gas Analyser	GEM5000 (S/N: G505207)	30 Aug 2024

Table 7-3 Landfill Gas Monitoring Detection Limits

Parameters	Detection Limit
CH_4	1% LEL
O_2	0.1%
CO_2	0.1%

7.4 Event and Action Plan (EAP)

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

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

Parameter	Monitoring Result	Action
Oxygen (O_2)	Action Level <19% O_2	Ventilate trench/void to restore O_2 to >19%
	Limit Level <18% O_2	Stop works Evacuate personnel/prohibit entry Increase ventilation to restore O_2 to >19%
Methane (CH_4)	Action Level >10% LEL*	Prohibit hot works Increase ventilation to restore CH_4 to <10% LEL
	Limit Level >20% LEL*	Stop works Evacuate personnel/prohibit entry Increase ventilation to restore CH_4 to <10% LEL
Carbon dioxide (CO_2)	Action Level** >0.5%** CO_2	Ventilate to restore CO_2 to <0.5%
	Limit Level >1.5% CO_2	Stop works Evacuate personnel / prohibit entry Increase ventilation to restore CO_2 to <0.5%

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

** This Action Level of CO_2 at 0.5% is set for reference only, assuming no CO_2 emission from a particular location.

Depending on the baseline CO_2 levels, the Action Level at a particular location will be changed.

7.5 Monitoring Results

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

7.5.2 The LFG monitoring was conducted at Portion A +50 mpD to 70 mpD Platform and Portion B2/E1 during the reporting period (Conducted on working days). The LFG monitoring results are summarized in **Table 7-5** & **Table 7-6.**

Table 7-5 Summary of LFG Monitoring Results

LFG Monitoring Station	Monitoring Date	Monitoring Parameter(s)			
		CH_4 in %	LEL in %/v	CO_2 in %	O_2 in %
		Average Monitoring Results			
Portion A +50 mpD to 70 mpD Platform	2 May 2024	0	0	0	20.0
	3 May 2024	0	0	0	20.1
	4 May 2024	0	0	0	20.1
	6 May 2024	0	0	0	20.1
	7 May 2024	0	0	0	20.2
	8 May 2024	0	0	0	20.2
	9 May 2024	0	0	0	20.1
	10 May 2024	0	0	0	20.1
	11 May 2024	0	0	0	20.1
	13 May 2024	0	0	0	20.1
	14 May 2024	0	0	0	20.1
	16 May 2024	0	0	0	20.1
	17 May 2024	0	0	0	20.0
	18 May 2024	0	0	0	20.1
	20 May 2024	0	0	0	20.1
	21 May 2024	0	0	0	20.1
	22 May 2024	0	0	0	20.1
	23 May 2024	0	0	0	20.0
	24 May 2024	0	0	0	20.1
	25 May 2024	0	0	0	20.0
	27 May 2024	0	0	0	20.1
	28 May 2024	0	0	0	20.1
	29 May 2024	0	0	0	20.1
Action Level		>10% LEL	---	>0.5%** CO_2	<19%
Limit Level		>20% LEL	---	>1.5% CO_2	<18%

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

** This Limit Level of CO_2 at 0.5% is set for reference only, assuming no CO_2 emission from a particular location.

Table 7-6 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 B2/E1	2 May 2024	0	0	0	20.0
	3 May 2024	0	0	0	20.1
	4 May 2024	0	0	0	20.1
	6 May 2024	0	0	0	20.1
	7 May 2024	0	0	0	20.2
	8 May 2024	0	0	0	20.2
	9 May 2024	0	0	0	20.1
	10 May 2024	0	0	0	20.1
	11 May 2024	0	0	0	20.1
	13 May 2024	0	0	0	20.1
	14 May 2024	0	0	0	20.1
	16 May 2024	0	0	0	20.1
	17 May 2024	0	0	0	20.0
	18 May 2024	0	0	0	20.1
	20 May 2024	0	0	0	20.1
	21 May 2024	0	0	0	20.1
	22 May 2024	0	0	0	20.1
	23 May 2024	0	0	0	20.0
	24 May 2024	0	0	0	20.1
	25 May 2024	0	0	0	20.0
	27 May 2024	0	0	0	20.1
	28 May 2024	0	0	0	20.1
	29 May 2024	0	0	0	20.1
Action Level		>10% LEL	---	>0.5%** CO_2	<19%
Limit Level		>20% LEL	---	>1.5% CO_2	<18%

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

** This Limit Level of CO_2 at 0.5% is set for reference only, assuming no CO_2 emission from a particular location.

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

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

Landfill Gas Monitoring Station		Portion A +50 mpD to 70 mpD Platform		Portion B2/E1	
Level Exceedance / Parameters		Action Level	Limit Level	Action Level	Limit Level
CH_4	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0
CO_2	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0
O_2	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0

Remarks: * equal to non-project related

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

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

7.6 Recommended Mitigation Measures

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

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

8 Landscape and Visual

8.1 Monitoring Requirement

8.1.1 In order to monitor the landscape and visual impact after providing mitigation measures effectively, all the specified and affected LCAs, LRs and VSRs should be monitored. Implementation of the mitigation measures during construction phase of the Project has been monitored through the regular site inspection/audit.

8.1.2 All relevant environmental mitigation measures listed in the approved EIA Report and the EM&A Manual and their implementation status are summarised in **Appendix L**.

8.2 Result and Observation

8.2.1 Measures to mitigate the landscape and visual impacts during the construction phase has been checked to ensure compliance with the intended aims of the measures within the reporting period. The progress of the engineering works are regularly reviewed on site to identify the earliest practical opportunities for the landscape works to be undertaken.

8.2.2 In order to monitor the landscape and visual impact after providing mitigation measures effectively, all the specified and affected LCAs, LRs and VSRs should be monitored. Implementation of the mitigation measures during construction phase of the Project has been monitored through the regular site inspection/audit.

9 Cultural Heritage

9.1.1 The Mitigation measures for preservation of the cultural landscape feature located within the project area was conducted before commencement of construction of the project based on the requirement of Survey Report and Mapping Records for Boulder Paths BP1 & 2 & Conditions of G2, G4, G5 G6, G7, G8, G14, G15, G25, G26 and G27 within NENTX.

9.1.2 The survey and mapping works carried out on 23 August 2022 and the verification works carried out on 23 August 2022 confirmed that both 2 boulder paths BP1 and BP2 are fall outside the site boundary and the Project area.

9.1.3 All the affected graves within the waste boundary have been removed in accordance with section 119(1) of the Public Health and Municipal Services Ordinance (Cap 132). Removal of the graves as shown on Figure 2 attached to the FEP was proven by the visit of graves on 8 July 2022. All the graves as shown on Figure 2 attached to the FEP were abandoned and removed and no mitigation or preservation measures is necessary.

9.1.4 The Survey Report and Mapping Records for Boulder Paths BP1 & 2 was certified by ET on 10 Oct 2022, was verified by IEC and submitted to EPD on 12 Oct 2022. The Conditions of G2, G4, G5 G6, G7, G8, G14, G15, G25, G26 and G27 within NENTX was certified by ET, was verified by IEC and submitted to EPD on 15 Oct 2022. No later than four weeks before commencement of construction of the project in accordance with Condition 2.4 of the FEP-01/292/2007.

9.1.5 Implementation of the mitigation measures such as permanent fencing to protect the boulder path and setting up warning notices during construction phase of the Project has been monitored through the regular site inspection/audit. The permanent fencing locations are shown in **Appendix M**. In case of any presence of undiscovered grave during construction phase, AMO will be informed as soon as possible.

10 Ecological Monitoring

10.1.1 The post-transplantation monitoring had been completed in October 2023. No further post-transplantation monitoring will be conducted in accordance with the requirement of the approved Transplantation Proposal for Plant Species of Conservation Importance (Rev.1).

10.1.2 The post-translocation monitoring had been completed in July 2023. No further post-translocation monitoring will be conducted in accordance with the requirements of the Revised Translocation Proposal for the Endemic Freshwater Crab *Somanniathelphusa zanklon*.

10.1.3 The details of requirements, monitoring results and site inspection with photos for the post-translocation monitoring and post-transplantation monitoring would be reported separately.

10.1.4 The milestone of the ecological monitoring is presented in **Table 10-1.** The softcopies of the submissions are provided in https://www.nentx-ema.com/ep-submissions/.

Table 10-1 Milestone of the Ecological Monitoring

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

11 Site Inspection and Audit

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

11.1.2 Weekly ET environmental site inspections were conducted in the reporting period on 06, 13, 20 & 27 May 2024. A joint environmental site inspection was carried out by the representatives of the ER, the Contractor, IEC and the ET on 20 May 2024. The joint environmental site inspection records are shown in **Appendix K**. There was no noncompliance recorded during the site inspections.

11.1.3 Major findings and recommendations are summarized as follows:

06 May 2024

Reminder(s):

- The Contractor was reminded that the precaution shall be taken with Appendix A2 of ProPECC PN 1/94 before, during and after rainstorm.

13 May 2024

Observation(s):

- The activity of handing of bulk cement or dry PFA shall be carried out at a totally enclosed system or facility at Portion B2-E1. The Contractor was advised that the activity of handing of bulk cement or dry PFA carried out in a totally enclosed system or facility or placed in an area sheltered on the top and 3 sides to prevent dust dispersion.
- General waste and C&D waste on the floor was observed at Portion A and D. The Contractor was reminded to provide and arrange sufficient waste skip and enclosed bins for waste collection and storage at Portion A and D.

Reminder(s):

- The Contractor was reminded that the precaution shall be taken with Appendix A2 of ProPECC PN 1/94 before, during and after rainstorm.
- The Contractor was reminded that the exposed slope surfaces at Portion B2-E1 should be covered by tarpaulin.

20 May 2024

Observation(s):

- Rubbish bins shall be covered and enclosed, and the waste skip shall be placed and designed in a flat area at Portion A. The Contractor was reminded that rubbish bin for general waste collection should be covered and enclosed, and the waste skip for C&D waste collection and storage should be placed properly in the flat area to prevent water stagnation at Portion A.
- Oil drum and chemical container at Portion A without the drip tray and chemical label in chinses and English was observed. The Contractor was recommended to provide chemical drip trays for chemical storage at Portion A to prevent chemical leakage and land contamination, and to provide chemical labels in Chinese and English.

Reminder(s):

- The Contractor was reminded that the precaution shall be taken with Appendix A2 of ProPECC PN 1/94 before, during and after rainstorm.
- The Contractor was reminded that the exposed slope surface at Portion A should be covered with green netting after the excavation activity in order to reduce visual impact.

27 May 2024

Observation(s):

- Working area at Portion E3 is dry and fugitive dust was observed. The Contractor was reminded to arrange for watering regularly at the work sites of Portion E3 to ensure the work sites are wetted and to prevent dust dispersion.
- The generator at Portion B2-E1 without NRMM label was observed. The Contractor was recommended that NRMM label should be fixed and displayed on the generator at Portion B2-E1.
- The general waste at Portion E4 shall be collected and stored in the enclosed rubbish bin. The Contractor was reminded to provide sufficient enclosed rubbish bin for general waste collection and storage at Portion E4.
- The chemical container without drip tray was observed at Portion B2-E1. The Contractor was reminded that the chemical container should be placed in the drip tray properly at Portion B2-E1to prevent chemical leakage and land contamination.

Reminder(s):

- The Contractor was reminded that the precaution shall be taken with Appendix A2 of ProPECC PN 1/94 before, during and after rainstorm.
- The Contractor was reminded that the temporary drainage system e.g. channel and earth bund should be provided and protected properly at Portion E4 to direct stormwater to slit removal facility.

11.1.4 One site inspection on 30 May 2024 was conducted by Environmental Protection Department-Regional Office (North) (EPD-RNG) during reporting period.

12 Environmental Non-Conformance

12.1 Summary of Monitoring Exceedance

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

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

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

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

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

Remarks: * equal to non-project related

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

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

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

Remarks: * equal to non-project related

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

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

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

Remarks: * equal to non-project related

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

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

Landfill Gas Monitoring Station		Portion A +50 mpD to 70 mpD Platform		Portion B2/E1	
Parameters \ Level Exceedance		Action Level	Limit Level	Action Level	Limit Level
CH_4	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0
CO_2	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	0	0
O_2	Exceedance Date	-	-	-	-
	Exceedance Count	0	0	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 One complaint on 9 May 2024 was recorded during the reporting period. The related complaint is investigating by related parties in accordance with the requirement of EM&A Manual.

Environmental Complaint on 9 May 2024

12.3.2 The complaint about the water aspect was received by ET on 9 May 2024 at 09:24 via EPD-RNG email. The main content of the complaint mentioned EPD receipted a memo from DSD/Mainland North regarding the incident of muddy water observed in Ping Yuen River, at

the downstream of NENTX, on 23 April 2024. The related investigation results will be presented when the investigation was finished.

12.3.3 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
May 2024	Complaint Date	-	-	9 May 2024	-	-
	No. of Complaint	0	0	1	0	0
Reporting Period Total		0	0	1#	0	0
Accumulate of project		1*	0	6(1* & 1#)	0	0

Remarks:

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

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

12.4 Summary of Environmental Summons and Successful Prosecution

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

13 Implementation Status on Environmental Mitigation Measures

13.1 General

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

14 Future Key Issues

14.1 Key Issues for the Coming Month

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

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

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

14.2 Monitoring Schedule for the Next Month

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

14.3 Construction Programme for the Next Month

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

15 Conclusion

15.1.1 1-hr & 24-hr TSP impact monitoring was carried out in the reporting month. No Action / Limit Level exceedance for 1-hr & 24-hr TSP impact monitoring was recorded during the period.

15.1.2 Construction noise monitoring was carried out in the reporting month. No Action / Limit Level exceedance at NM1a & NM2a was recorded during the period.

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

15.1.4 Surface Water Quality Monitoring was carried out in the reporting month. No Action / Limit Level exceedance of surface water quality was recorded during the reporting period.

15.1.5 Landfill Gas Monitoring was carried out in the reporting month. No exceedance of Action / Limit Levels of LFG was recorded during the reporting period.

15.1.6 In terms of cultural heritage, implementation of the mitigation measures such as permanent fencing to protect the boulder path and setting up warning notices during construction phase of the Project has been monitored through the regular site inspection/audit in the reporting period. All the mitigation measures are in order.

15.1.7 Four environmental site inspections were carried out in the reporting month. Recommendations on mitigation measures for Permit/ Licenses were given to the Contractor for remediating the deficiencies identified during the site inspections.

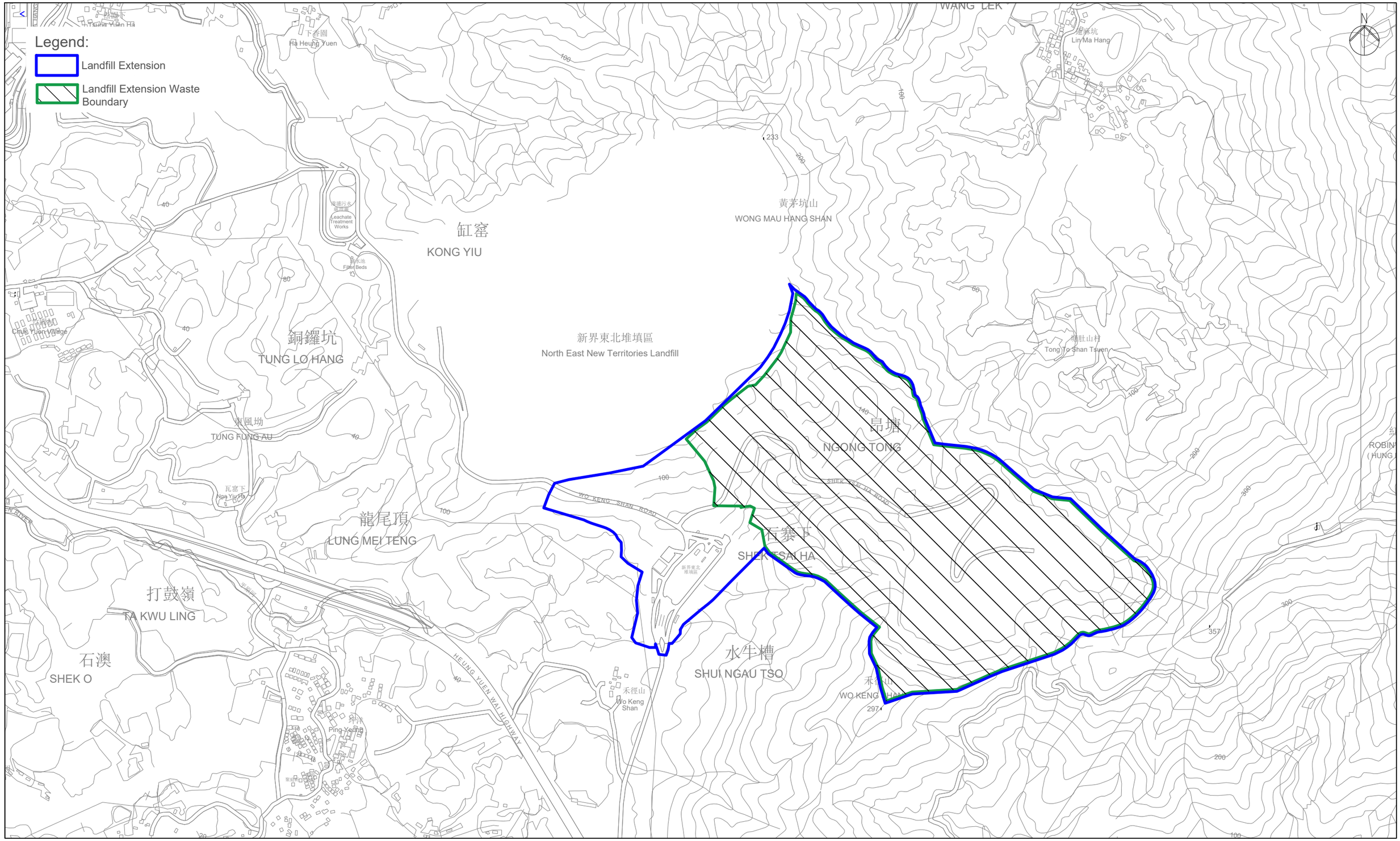
15.1.8 One complaint was recorded during the reporting period. The related complaint is investigating by related parties in accordance with the requirement of EM&A Manual. The related investigation results will be presented when the investigation was finished.

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

15.1.10 No notification of summons and prosecution was received during the reporting period.

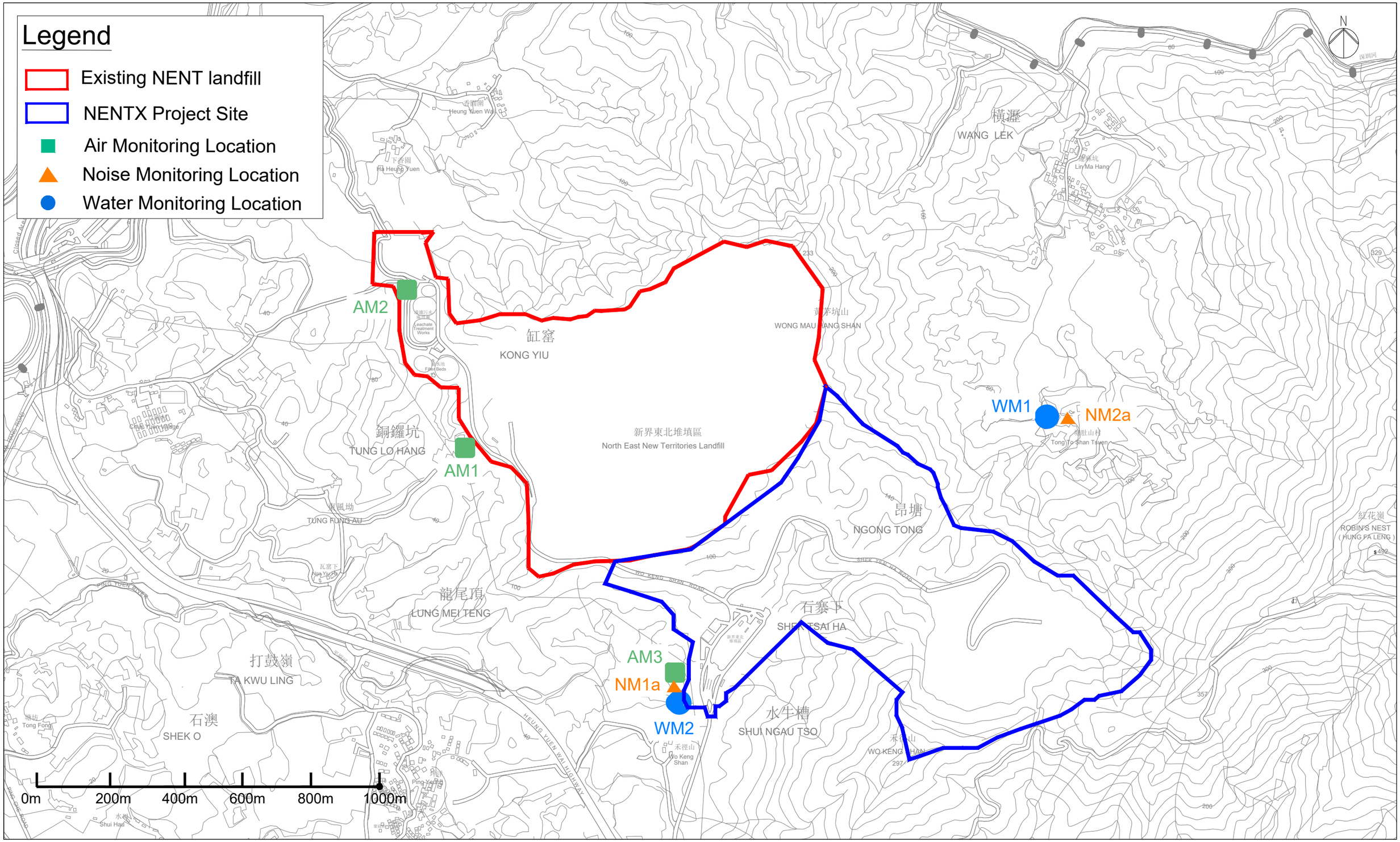
15.1.11 The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Figure 1 Location of the Project Site



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

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

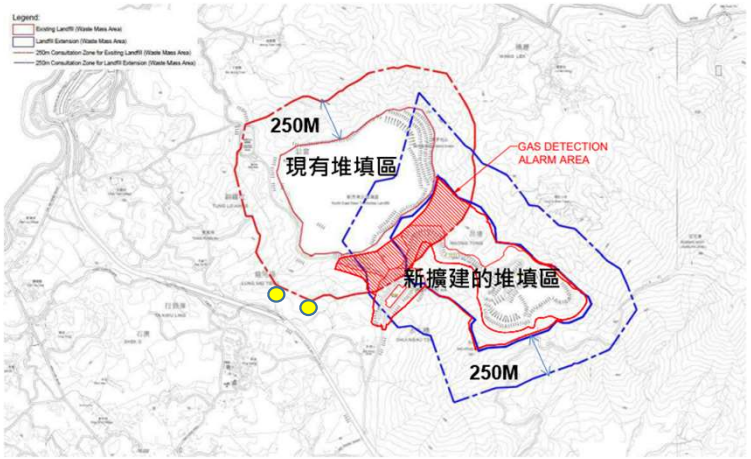


aurecon Aurecon Hong Kong Limited	North East New Territories (NENT) Landfill Extension Impact Monitoring Location	Figure 2

Figure 3 Landfill Gas Monitoring Locations

Gas Monitoring Point

Monitoring Frequency: 2 times per day



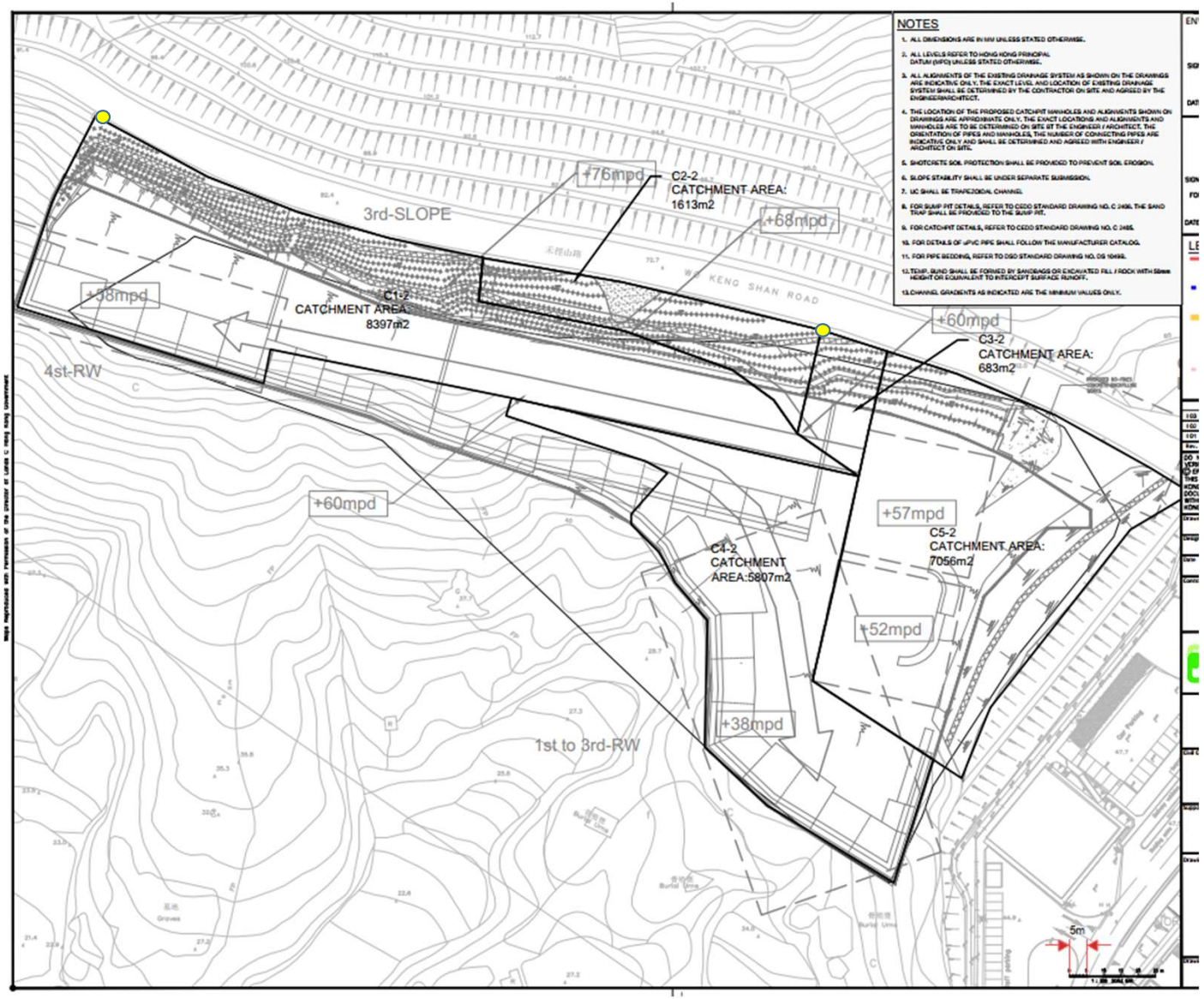


Figure 3 Landfill Gas Monitoring Locations

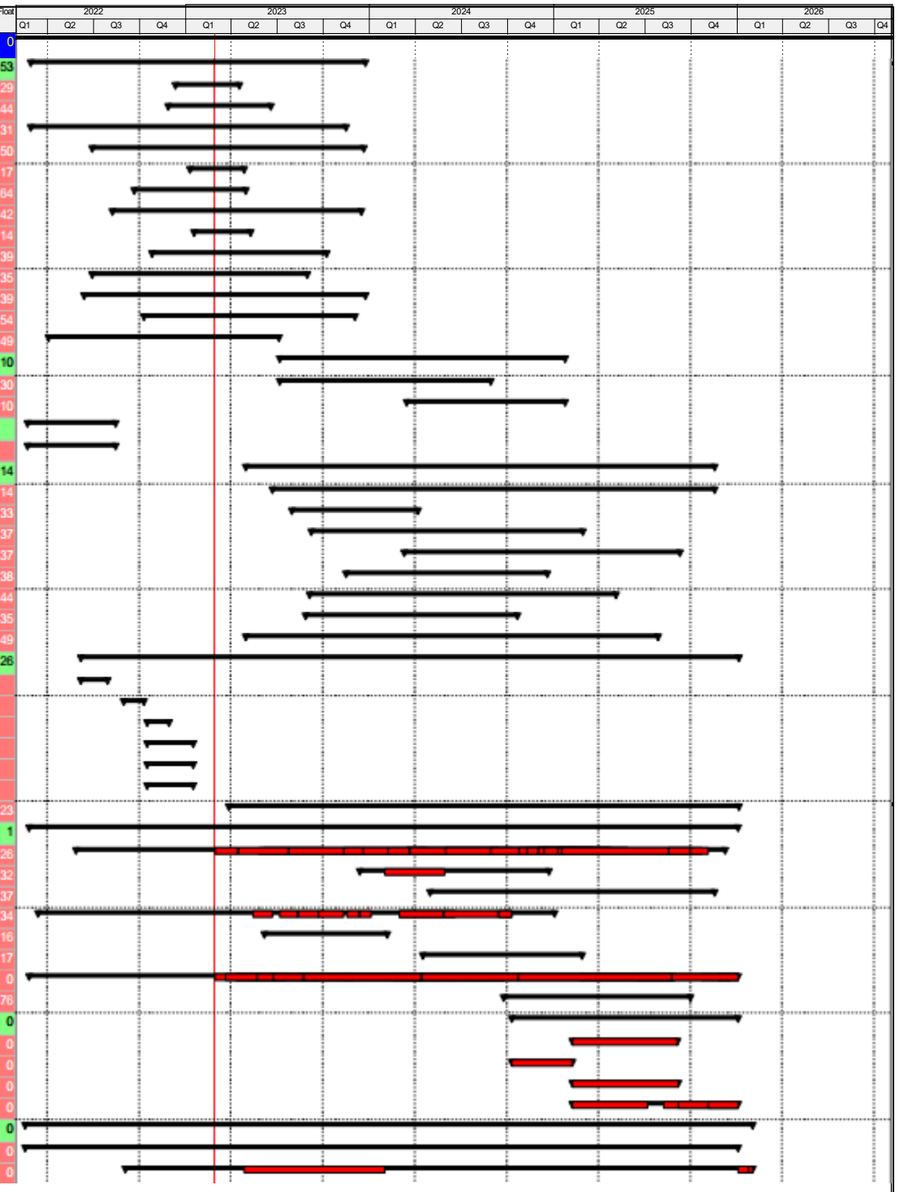
Gas Monitoring Point

Monitoring Frequency:
2 times per day

Figure 3 Landfill Gas Monitoring Locations

Appendix A Construction Programme & Construction Activities

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



環境保護署
Environmental Protection Department

Remaining Level of Effort
Remaining Work
Critical Remaining Work
Milestone
Summary

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

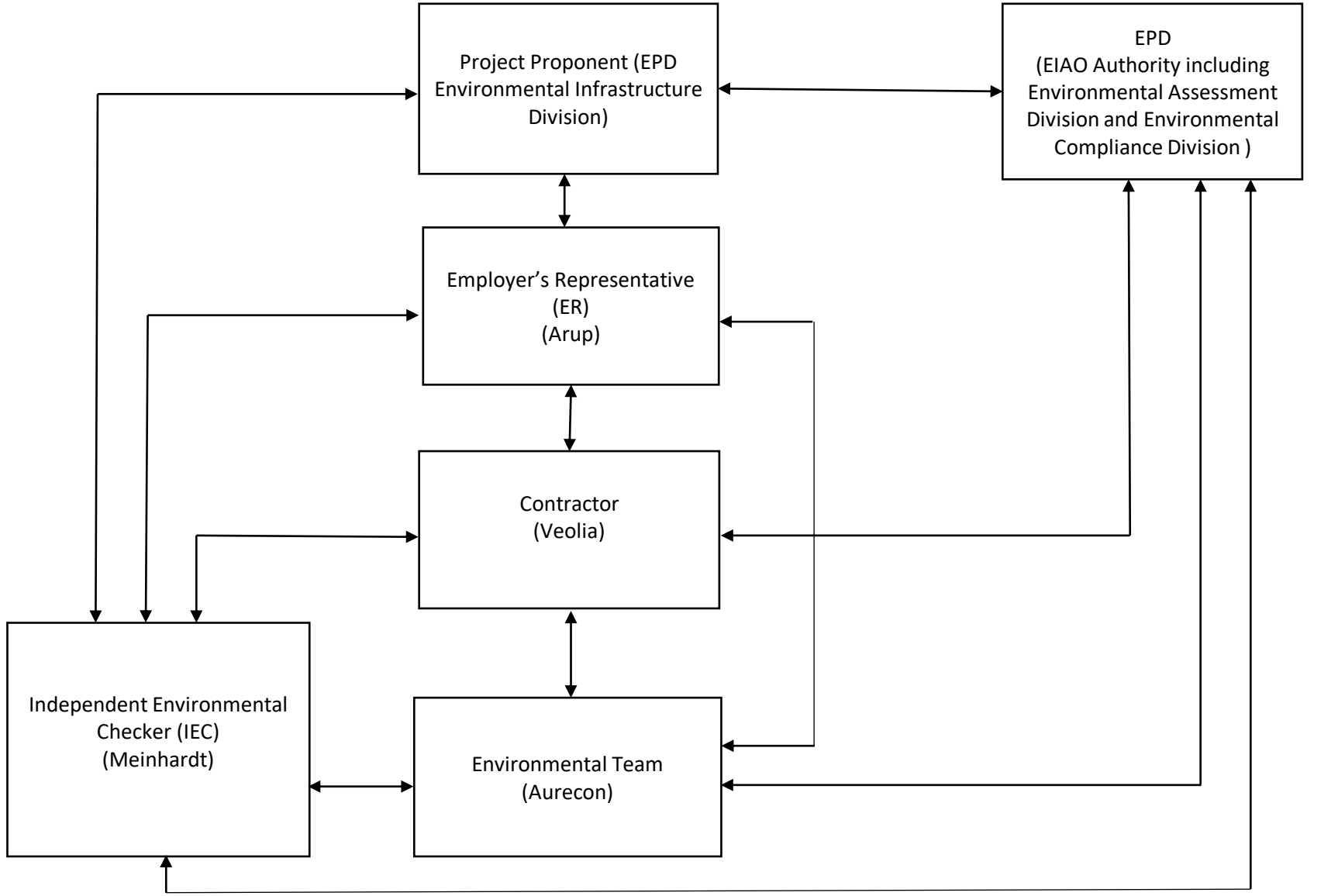
VEOLIA

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

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

Remark:
PYE is the Sub-contractor for this project

Appendix B Project Organization Chart & Management Structure



Notes:
EPD - Environmental Protection Department
Arup – Ove Arup & Partners Limited
Veolia - Veolia Environmental Services Hong Kong Limited
Meinhardt - Meinhardt Infrastructure And Environment Limited
Aurecon - Aurecon Hong Kong Limited

Line of Communication

Appendix C Detail Status of FEP & EP Submission

Detail Status of Submissions required under the FEP & EP

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

FEP Condition	EP Condition	Submission / Measures	Status
2.8	2.10	Submission of Translocation Report and Post-Translocation Monitoring	Translocation was carried out in July 2022 Submission Date (27 December 2022) 1st monitoring (29 Aug 2022) 2nd monitoring (28 Sep 2022) 3rd monitoring (28 Oct 2022) 4th monitoring (22 Nov 2022) 5th monitoring (29 Dec 2022) 6th monitoring (30 Jan 2023) 7th monitoring (24 Feb 2023) 8th monitoring (20 Mar 2023) 9th monitoring (19 Apr 2023) 10th monitoring (17 May 2023) 11th monitoring (7 Jun 2023) 12th monitoring (12 Jul 2023)
2.9	2.11	Submission of Detailed Landfill Gas Hazard Assessment Report	Submission Date (6 Oct 2022)
2.10	2.12	Submission of Waste Management Plan	Submission Date (30 December 2022)
3.2	3.2	Submission of Baseline Monitoring Report	Submission Date (30 Nov 2022)
3.3	3.3	Submission of Monthly EM&A Report	1st report (Dec 2022) 2nd report (Jan 2023) 3rd report (Feb 2023) 4th report (Mar 2023) 5th report (Apr 2023) 6th report (May 2023) 7th report (Jun 2023) 8th report (Jul 2023) 9th report (Aug 2023) 10th report (Sep 2023) 11th report (Oct 2023) 12th report (Nov 2023) 13th report (Dec 2023) 14th report (Jan 2024) 15th report (Feb 2024) 16th report (Mar 2024) 17th report (Apr 2024) 18th report (May 2024)

Appendix D Monitoring Schedule for Reporting Month & Next Month

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

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

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.

Date: 3 May 2024

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

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

Date: 27 May 2024

Appendix E Calibration Certificates

Air Quality

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

Information of Calibrated Equipement

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

Standard Equipment Information

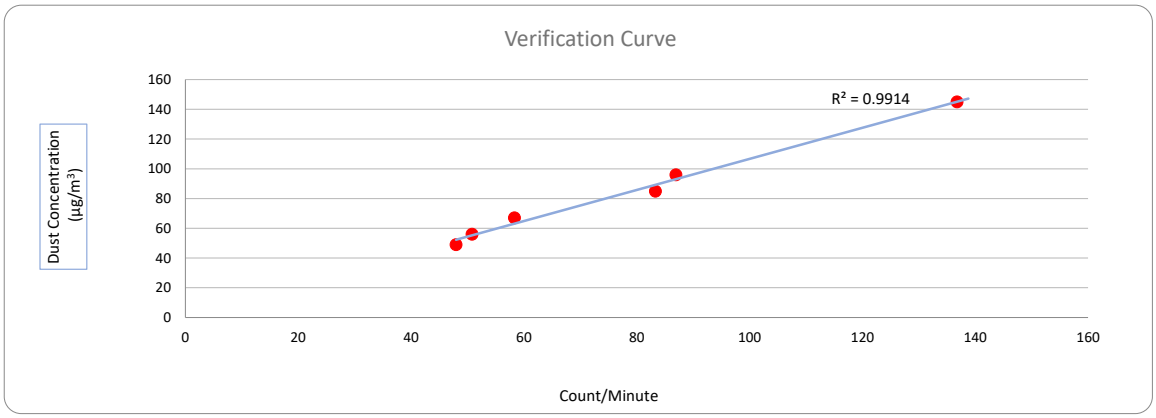
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5028A
Equipment serial no.:	1106	3702
Last Calibration Date:	04-Nov-23	31-Mar-23
Next Calibration Date:	04-Jan-24	30-Mar-24

Equipement Vertification Result

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

Linear Regression of y on x

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



Operated By: Andy Li — Project Technician, Environmental — Date: 02-12-2023

Checked By: Tandy Tse — Senior Consultant, Environmental — Date: 02-12-2023

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

Information of Calibrated Equipement

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

Standard Equipment Information

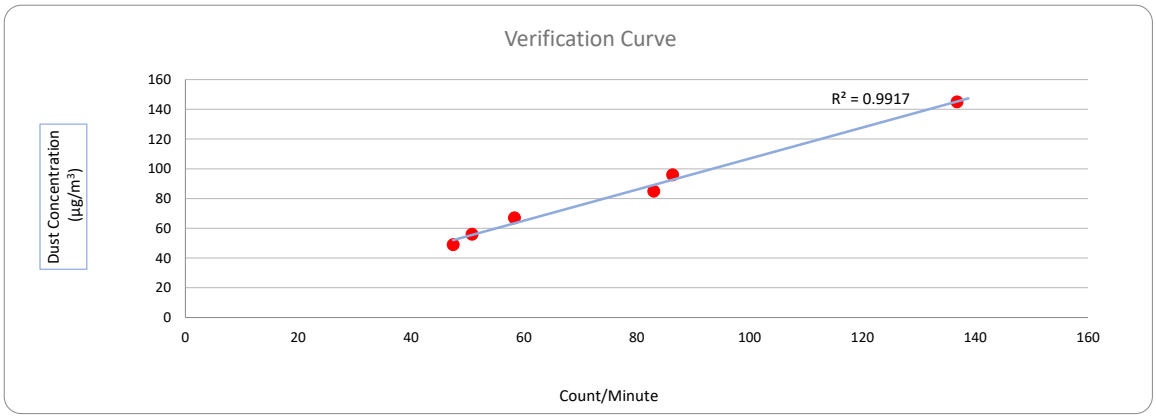
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5028A
Equipment serial no.:	1106	3702
Last Calibration Date:	04-Nov-23	31-Mar-23
Next Calibration Date:	04-Jan-24	30-Mar-24

Equipement Vertification Result

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

Linear Regression of y on x

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



Operated By: Andy Li — Project Technician, Environmental — Date: 02-12-2023

Checked By: Tandy Tse — Senior Consultant, Environmental — Date: 02-12-2023

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

Information of Calibrated Equipement

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

Standard Equipment Information

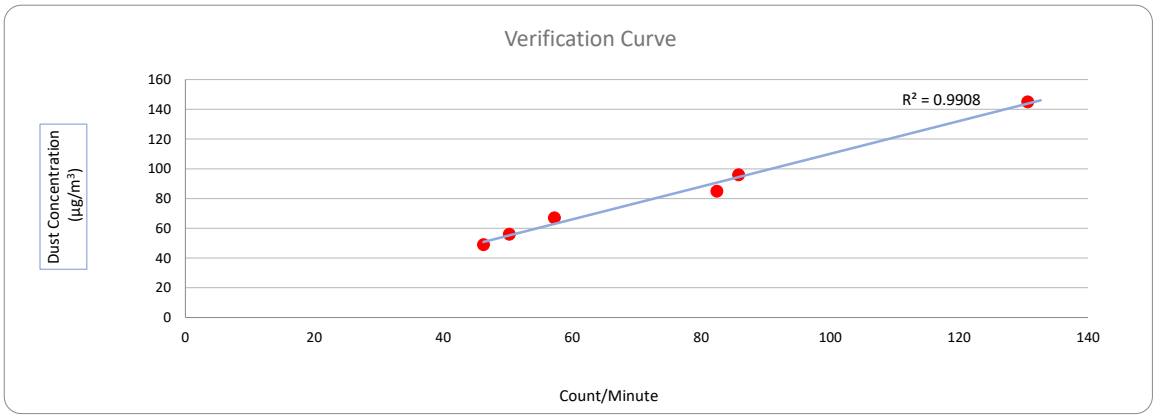
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5028A
Equipment serial no.:	1106	3702
Last Calibration Date:	04-Nov-23	31-Mar-23
Next Calibration Date:	04-Jan-24	30-Mar-24

Equipement Vertification Result

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

Linear Regression of y on x

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



Operated By: Andy Li — Project Technician, Environmental — Date: 02-12-2023

Checked By: Tandy Tse — Senior Consultant, Environmental — Date: 02-12-2023

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	**Representative For Tung Lo Hang**	**Site ID:**	**AM1**	**Date:**	**02-May-2024**
Serial No:	**1105**	**Model:**	**TE-5170X**	**Operator:**	**Andy Li**

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	758.8	**Actual Temperature during Calibration (T_a) (deg K):**	298.7

Calibration Orifice

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

Calibration Data

Plate or Test #	ΔH_2O (in)	Qa, X-Axis (m^3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	11.00	1.612	59.0	58.88
13	8.00	1.377	55.0	54.89
10	6.00	1.194	50.0	49.90
7	4.20	1.001	44.0	43.91
5	2.30	0.744	40.0	39.92

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

m= 23.0035 b= 22.2347 Corr. Coeff= 0.9930

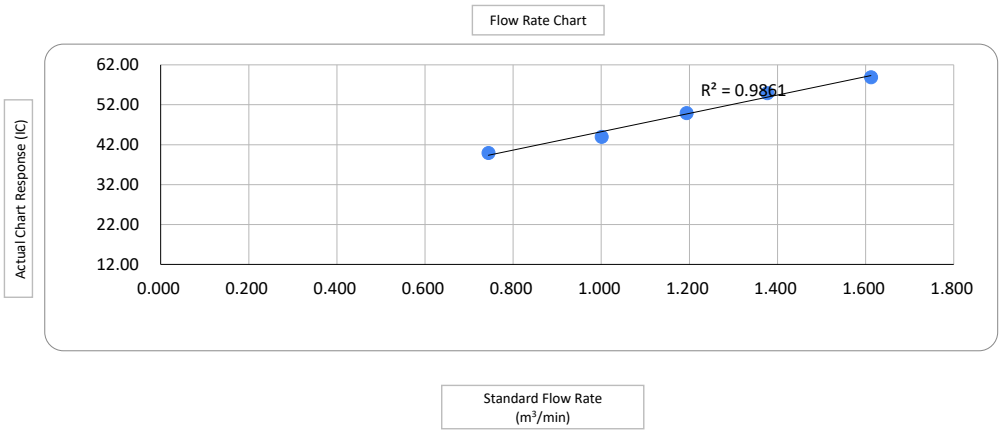
Calculations

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

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

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

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



Checked by: F.C Tsang
Environemntal Team Leader

Date: 02-May-2024

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	**Representative For Heung YuenWai**	**Site ID:**	**AM2**	**Date:**	**02-May-2024**
Serial No:	**1106**	**Model:**	**TE-5170X**	**Operator:**	**Andy Li**

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	758.8	**Actual Temperature during Calibration (T_a) (deg K):**	298.7

Calibration Orifice

Model:	TE-5025A	**Slope (m_c):**	2.06920
Serial No.:	3465	**Intercept (b_c):**	-0.02547
Calibration Due Date:	15-Jan-24	**Corr. Coeff:**	0.99999

Calibration Data

Plate or Test #	ΔH_2O (in)	Qa, X-Axis (m^3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	10.40	1.568	59.0	58.88
13	8.40	1.410	55.0	54.89
10	6.60	1.251	53.0	52.90
7	4.20	1.001	46.0	45.91
5	2.40	0.760	40.0	39.92

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

m= 23.3394 b= 22.5412 Corr. Coeff= 0.9960

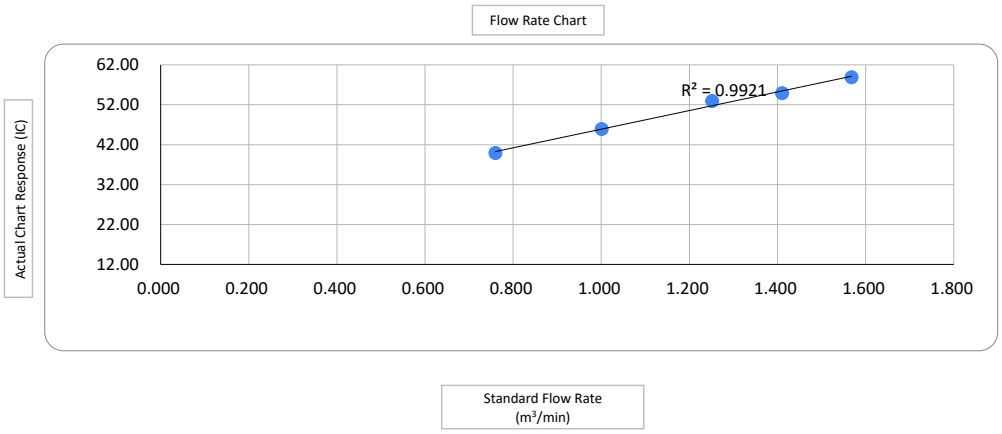
Calculations

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

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

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

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



Checked by: F.C Tsang
Environemntal Team Leader

Date: 02-May-2024

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	**Representative For Wo Keng Shan Tsuen**	**Site ID:**	**AM3**	**Date:**	**02-May-2024**
Serial No:	**1856**	**Model:**	**TE-5170X**	**Operator:**	**Andy Li**

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	758.8	**Actual Temperature during Calibration (T_a) (deg K):**	298.7

Calibration Orifice

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

Calibration Data

Plate or Test #	ΔH_2O (in)	Qa, X-Axis (m^3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
18	10.00	1.538	60.0	59.88
13	8.60	1.427	56.0	55.89
10	6.20	1.213	52.0	51.90
7	4.00	0.977	45.0	44.91
5	2.30	0.744	40.0	39.92

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

m= 24.8731 b= 21.1583 Corr. Coeff= 0.9972

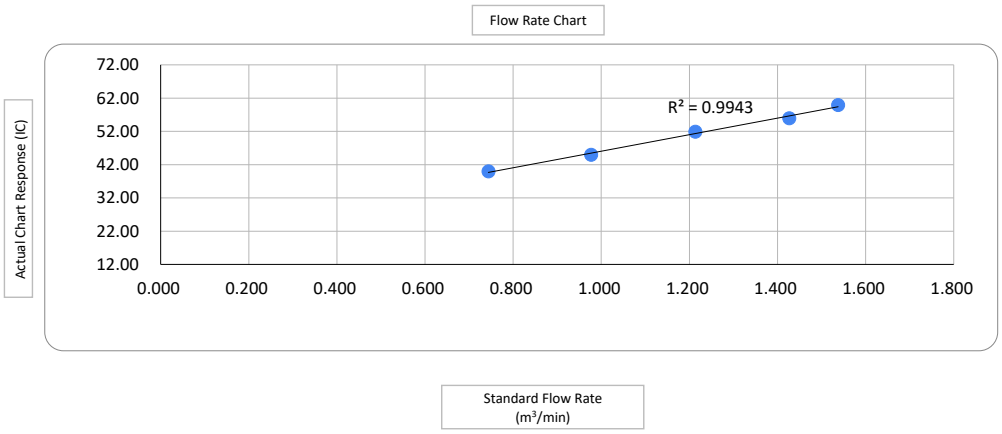
Calculations

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

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

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

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



Checked by: F.C Tsang
Environemntal Team Leader

Date: 02-May-2024

TISCH Environmental

RECALIBRATION DUE DATE:
January 15, 2025

Certificate of Calibration

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

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

Data Tabulation

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

Calculations

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

For subsequent flow rate calculations:

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

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

Standard Conditions	
Tstd:	298.15 °K
Pstd:	760 mm Hg

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

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

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

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

Noise

Certificate of Calibration

for

Description:	***Sound Level Meter***
Manufacturer:	***NTi Audio***
Type No.:	***XL2 (Serial No.: A2A-13661-E0)***
Microphone:	***ACO 7052 (Serial No.:84464)***
Preamplifier:	***NTi Audio MA220 (M2211) (Serial No.:5287)***

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 – 8kHz)**
☐ **Outside**

the allowable tolerance.

The test equipment used for calibration are traceable to National Standards via:
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 31 August 2023

Date of calibration: 04 September 2023

Date of NEXT calibration: 03 September 2024

Calibrated by: _____
Calibration Technician

Certified by: _____
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: **04 September 2023**

Certificate No.: APJ23-053-CC002

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

1. *Calibration Precaution:*

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.

- The results presented are the mean of 3 measurements at each calibration point.

2. *Calibration Conditions:*

Air Temperature:	23.6 °C
Air Pressure:	1006 hPa
Relative Humidity:	62.6 %

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	94.0	±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	94.0	Ref
			104		104.0	±0.3
			114		114.0	±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	94.0	Ref
		Slow			94.0	±0.3

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

Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dB SPL	Fast	94	31.5	94.1	±2.0
				63	94.1	±1.5
				125	94.1	±1.5
				250	94.1	±1.4
				500	94.1	±1.4
				1000	94.0	Ref
				2000	93.9	±1.6
				4000	93.9	±1.6
				8000	94.7	+2.1; -3.1

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dBA SPL	Fast	94	31.5	54.7	-39.4 ±2.0
				63	68.2	-26.2 ±1.5
				125	78.0	-16.1 ±1.5
				250	85.5	-8.6 ±1.4
				500	90.8	-3.2 ±1.4
				1000	94.0	Ref
				2000	95.1	+1.2 ±1.6
				4000	94.9	+1.0 ±1.6
				8000	93.5	-1.1+2.1; -3.1

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
30-130	dBC SPL	Fast	94	31.5	91.2	-3.0 ±2.0
				63	93.5	-0.8 ±1.5
				125	94.0	-0.2 ±1.5
				250	94.1	-0.0 ±1.4
				500	94.1	-0.0 ±1.4
				1000	94.0	Ref
				2000	93.7	-0.2 ±1.6
				4000	93.2	-0.8 ±1.6
				8000	91.6	–3.0 +2.1: –3.1

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

5. *Calibration Results Applied*

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

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.10
	63 Hz	± 0.10
	125 Hz	± 0.10
	250 Hz	± 0.10
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.10
	8000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

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

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

(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd.
聲學及空氣測試實驗室有限公司

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

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

1. *Calibration Precautions:*

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.

- The results presented are the mean of 3 measurements at each calibration point.

2. *Calibration Specifications:*

Calibration check

3. *Calibration Conditions:*

Air Temperature:	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.

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

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

A1

Calibration Certificate

Certificate No. 300737 Page 1 of 2 Pages

Customer : Acuity Sustainability Consulting Limited

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

Order No. : Q30320 **Date of receipt :** 2-Feb-23

Item Tested

Description : Hot Wire Anemometer

Manufacturer : RS PRO **I.D. :** ASCL-EQ-111

Model : RS-90 **Serial No. :** 210722208

Test Conditions

Date of Test : 13-Feb-23 **Supply Voltage :** --

Ambient Temperature : (23 ± 3)°C **Relative Humidity :** (50 ± 25) %

Test Specifications

Calibration check.

Ref. Document/Procedure : T03, Z04.

Test Results

All results were within the manufacturer's specification.

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

Main Test equipment used:

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

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

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

Calibrated by : James Yau

Approved by : Steve Kwan

Date: 13-Feb-23

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

The copyright of this certificate is owned by Hong Kong Calibration Ltd.. It may not be reproduced except in full.

Calibration Certificate

Results :

1. Velocity

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

2. Temperature

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

Remark : 1. UUT: Unit-Under-Test
2. Uncertainty : ± (0.9 % + 0.16 m/s) for Velocity, ± 0.1 °C for Temperature, for a confidence probability of not less than 95 %.
3. Atmospheric Pressure: 1 002 hPa

---------- END ----------

The copyright of this certificate is owned by Hong Kong Calibration Ltd., It may not be reproduced except in full.

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-BD030061
Date of Issue : 19 March 2024

PART A - CUSTOMER INFORMATION

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

PART B - SAMPLE INFORMATION

Name of Equipment :	YSI ProDSS Multi Parameters
Manufacturer :	YSI
Serial Number :	15M101091
Date of Received :	14 March 2024
Date of Calibration :	18 March 2024
Date of Next Calibration :	18 June 2024
Request No. :	D-BD030061

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	3.98	-0.02	Satisfactory
7.42	7.41	-0.01	Satisfactory
10.01	9.86	-0.15	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
16.0	16.5	0.5	Satisfactory
24.0	23.1	-0.9	Satisfactory
35.5	35.1	-0.4	Satisfactory

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

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.38	-6.20	Satisfactory
20	18.65	-6.75	Satisfactory
30	29.05	-3.17	Satisfactory

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

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning
Assistant Manager

This report shall not be reproduced unless with prior written approval from this laboratory

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-BD030061
Date of Issue : 19 March 2024

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
8.41	8.13	-0.28	Satisfactory
6.11	5.88	-0.23	Satisfactory
2.56	2.40	-0.16	Satisfactory
0.83	0.41	-0.42	Satisfactory

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

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.88	--	Satisfactory
10	10.88	8.8	Satisfactory
20	21.14	5.7	Satisfactory
100	106.45	6.5	Satisfactory
800	761.97	-4.8	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 form relevant international standards.

·The results relate only to the calibrated equipment as received

·The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

·"Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.

·The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

--- END OF REPORT ---

This report shall not be reproduced unless with prior written approval from this laboratory

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

Calibration Certificate

Certificate No. 400718

Customer : Acumen Laboratory and Testing Limited

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

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

Item Tested

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

Test Conditions

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

Test Specifications

Calibration check.
Ref. Document/Procedure : V12

Test Results

All results were within the manufacturer's specification.
The results are shown in the attached page(s).

Main Test equipment used:

Equipment No.	Description	Cert. No.	Traceable to
S179	Std. Tape	301321	NIM-PRC
S136A	Stop Watch	303116	SCL-HKSAR

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

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

Calibrated by : Kin Wong

Approved by : Steve Kwan

Date: 26-Jan-24

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

The copyright of this certificate is owned by Hong Kong Calibration Ltd.. It may not be reproduced except in full.

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

Calibration Certificate

Certificate No. 400718

Results :

Applied Value (m/s)	UUT Reading (m/s)	Mfr's Spec.
0.58	0.6	± 0.1 m/s

Remarks : 1. UUT : Unit-Under-Test
2. Uncertainty : ± 1 %, for a confidence probability of not less than 95%.

---------- END ----------

The copyright of this certificate is owned by Hong Kong Calibration Ltd., It may not be reproduced except in full.

Landfill Gas

CERTIFICATION OF CALIBRATION

4533

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.

CH_4, CO_2 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

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

4533

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

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 F Monitoring Results

Air Quality

1-hour TSP Concentration (μg/m^3) at Location AM1

Date	Equipment Brand & Model	Equipment Serial No.	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1) μg/m^3	Reading (2) μg/m^3	Reading (3) μg/m^3	Average μg/m^3	Action Level μg/m^3	Limit Level μg/m^3
2/5/2024	Sibata LD-5R	882106	1.044	Fine	13:12	14:12	15:12	29	31	31	30	285	500
8/5/2024	Sibata LD-5R	882106	1.044	Fine	13:21	14:21	15:21	21	20	26	22		
14/5/2024	Sibata LD-5R	882106	1.044	Fine	13:50	14:50	15:50	26	27	24	26		
20/5/2024	Sibata LD-5R	882106	1.044	Fine	13:09	14:09	15:09	21	24	20	22		
25/5/2024	Sibata LD-5R	882106	1.044	Fine	13:01	14:01	15:01	21	22	20	21		
31/5/2024	Sibata LD-5R	882106	1.044	Fine	13:16	14:16	15:16	24	25	24	24		
							Average	**24**					
							Max.	**31**					
							Min.	**20**					

1-hour TSP Concentration (μg/m^3) at Location AM2

Date	Equipment Brand & Model	Equipment Serial No.	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1) μg/m^3	Reading (2) μg/m^3	Reading (3) μg/m^3	Average μg/m^3	Action Level μg/m^3	Limit Level μg/m^3
2/5/2024	Sibata LD-5R	942532	1.102	Fine	13:20	14:20	15:20	50	49	47	49	279	500
8/5/2024	Sibata LD-5R	942532	1.102	Fine	13:30	14:30	15:30	44	43	40	42		
14/5/2024	Sibata LD-5R	0Z4545	1.0451	Fine	13:40	14:40	15:40	41	51	40	44		
20/5/2024	Sibata LD-5R	0Z4545	1.045	Fine	13:19	14:19	15:19	43	44	41	43		
25/5/2024	Sibata LD-5R	0Z4545	1.045	Fine	13:11	14:11	15:11	41	40	39	40		
31/5/2024	Sibata LD-5R	942532	1.102	Fine	13:34	14:34	15:34	45	46	40	44		
							Average	**44**					
							Max.	**51**					
							Min.	**39**					

1-hour TSP Concentration (μg/m^3) at Location AM3

Date	Equipment Brand & Model	Equipment Serial No.	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1) μg/m^3	Reading (2) μg/m^3	Reading (3) μg/m^3	Average μg/m^3	Action Level μg/m^3	Limit Level μg/m^3
2/5/2024	Sibata LD-5R	0Z4545	1.045	Fine	13:30	14:30	15:30	40	41	39	40	285	500
8/5/2024	Sibata LD-5R	0Z4545	1.045	Fine	13:50	14:50	15:50	54	50	56	53		
14/5/2024	Sibata LD-5R	942532	1.102	Fine	13:30	14:30	15:30	51	50	52	51		
20/5/2024	Sibata LD-5R	942532	1.102	Fine	13:29	14:29	15:29	51	56	55	54		
25/5/2024	Sibata LD-5R	942532	1.102	Fine	13:26	14:26	15:26	40	41	54	45		
31/5/2024	Sibata LD-5R	0Z4545	1.045	Fine	13:50	14:50	15:50	50	49	49	49		
							Average	**49**					
							Max.	**56**					
							Min.	**39**					

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

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time	Averaged Flow Rate	Averaged Flow Rate	Total Flow Volume	Filter Weight (g)		Particulate weight	Concentration	Action Level	Limit Level
		(℃)	(hPa)	Initial	Final	(minutes)	(cfm)	(m^3/min)	(m^3)	Initial	Final	(g)	(μg/m^3)	(μg/m^3)	(μg/m3)
2/5/2024	Fine	24.5	1012.0	2982.08	3006.08	1440	40	0.75	1080	2.7350	2.8611	0.1261	117	164	260
8/5/2024	Fine	26.3	1015.3	3014.22	3038.22	1440	37	0.64	923	2.6996	2.8091	0.1095	119		
14/5/2024	Fine	26.0	1014.2	3045.09	3069.09	1440	38	0.66	954	2.6933	2.8126	0.1193	125		
20/5/2024	Fine	24.9	1007.6	3075.88	3099.88	1440	37	0.63	912	2.6647	2.7900	0.1253	137		
25/5/2024	Fine	26.9	1009.2	3106.33	3130.33	1440	41	0.80	1157	2.6922	2.7989	0.1067	92		
31/5/2024	Fine	27.2	1007.2	3136.71	3160.71	1440	37	0.63	902	2.7431	2.8341	0.0910	101		
												Average	**115**		
												Min	**92**		
												Max	**137**		

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

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time	Averaged Flow Rate	Flow Rate	Total Flow Volume	Filter Weight (g)		Particulate weight	Concentration	Action Level	Limit Level
		(℃)	(hPa)	Initial	Final	(minutes)	(cfm)	(m^3/min)	(m^3)	Initial	Final	(g)	(μg/m^3)	(μg/m^3)	(μg/m3)
2/5/2024	Fine	24.5	1012.0	2553.02	2577.02	1440	43	0.88	1261	2.7138	2.8765	0.1627	129	152	260
8/5/2024	Fine	26.3	1015.3	2585.99	2609.99	1440	43	0.88	1260	2.7115	2.8579	0.1464	116		
14/5/2024	Fine	26.0	1014.2	2618.78	2642.78	1440	44	0.92	1322	2.6920	2.8615	0.1695	128		
20/5/2024	Fine	24.9	1007.6	2652.65	2676.65	1440	43	0.85	1217	2.7054	2.8628	0.1574	129		
25/5/2024	Fine	26.9	1009.2	2686.52	2710.52	1440	42	0.82	1182	2.7204	2.8835	0.1631	138		
31/5/2024	Fine	27.2	1007.2	2720.30	2744.30	1440	42	0.82	1176	2.7339	2.8779	0.1440	122		
												Average	**127**		
												Min	**116**		
												Max	**138**		

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

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse Time		Sampling Time	Averaged Flow Rate	Flow Rate	Total Flow Volume	Filter Weight (g)		Particulate weight	Concentration	Action Level	Limit Level
		(℃)	(hPa)	Initial	Final	(minutes)	(cfm)	(m^3/min)	(m^3)	Initial	Final	(g)	(μg/m^3)	(μg/m^3)	(μg/m3)
2/5/2024	Fine	24.5	1012.0	3530.29	3554.29	1440	42	0.82	1177	2.6948	2.8472	0.1524	130	163	260
8/5/2024	Fine	26.3	1015.3	3564.16	3588.16	1440	42	0.82	1176	2.7100	2.8538	0.1438	122		
14/5/2024	Fine	26.0	1014.2	3597.13	3621.13	1440	40	0.74	1060	2.7015	2.8447	0.1432	135		
20/5/2024	Fine	24.9	1007.6	3630.91	3654.91	1440	42	0.81	1165	2.7061	2.8389	0.1328	114		
25/5/2024	Fine	26.9	1009.2	3664.80	3688.80	1440	41	0.79	1132	2.7069	2.8313	0.1244	110		
31/5/2024	Fine	27.2	1007.2	3698.68	3722.68	1440	41	0.78	1126	2.7018	2.8091	0.1073	95		
												Average	**118**		
												Min	**95**		
												Max	**135**		

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
2/5/2024	Fine	1.4	13:12	13:42	59.2	60.4	61.4	61.2	60.9	60.8	60.7	62.3	63.6	64.9	64.7	63.9	63.8	56.2	57.4	58.6	58.1	57.2	57.1
8/5/2024	Fine	1.1	13:10	13:40	61.4	62.4	62.2	61.6	60.0	61.4	61.6	64.1	65.3	65.2	64.1	63.2	64.6	57.2	58.1	58.3	57.7	56.8	57.7
14/5/2024	Fine	1.2	13:00	13:30	60.3	60.4	59.3	59.9	60.4	60.9	60.2	62.4	62.6	61.4	62.0	62.9	63.0	58.3	58.5	57.6	58.1	58.4	59.1
20/5/2024	Fine	1.9	13:36	14:06	61.4	60.3	59.1	58.9	59.9	60.4	60.1	63.2	62.4	61.3	60.4	61.9	63.1	58.1	57.6	56.2	55.2	56.4	57.6
31/5/2024	Fine	1.2	13:02	13:32	60.2	61.4	60.3	59.4	60.2	61.2	60.5	62.4	63.6	62.2	61.3	62.6	63.9	58.2	59.4	58.1	57.6	58.3	59.2

Average	60.6
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
2/5/2024	Fine	1.4	13:30	14:00	47.6	46.6	48.7	47.6	48.4	49.1	48.1	50.2	49.3	51.4	50.6	51.9	52.6	44.2	43.6	45.6	44.3	45.1	46.6
8/5/2024	Fine	1.2	16:10	16:40	57.3	56.6	56.9	57.9	54.4	55.6	56.6	58.3	57.4	57.9	58.6	55.4	57.6	56.3	55.4	55.1	56.3	53.6	54.4
14/5/2024	Fine	1.1	16:00	16:30	53.6	54.1	54.6	55.4	54.3	53.1	54.2	55.7	56.2	56.9	57.2	56.3	55.3	51.4	52.6	52.9	53.2	52.2	52.6
20/5/2024	Fine	2.2	15:59	16:29	58.2	57.5	54.3	55.2	54.9	54	56.0	61.3	60.4	57.2	58.6	58.8	57.6	54.2	53.1	51.3	54.2	54.1	53.2
31/5/2024	Fine	1.9	15:30	16:00	57.3	56.9	57.4	56.9	57.5	58.1	57.4	58.1	57.9	58.8	57.9	58.8	59.1	56.3	55.6	56.3	55.4	56.6	57.6

Average	55.4
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
8-May-24	9:00	Fine	0.07	0.4	22.8	8.5	<7.4	<4	6.9	>7.7	>7.8	7.1	>9.2	>9.5	2.9	>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
8-May-24	8:04	Fine	0.20	0.1	23.6	8.8	<5	<4	6.9	>7.6	>7.7	17.1	>108.3	>108.9	13.8	>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

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

CERTIFICATE OF ANALYSIS

Client	: ACUMEN LABORATORY AND TESTING LIMITED	Laboratory	: ALS Technichem (HK) Pty Ltd	Page	: 1 of 9
Contact	: HUNTINGTON HUI	Contact	: Richard Fung	Work Order	: HK2417956
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	: 08-May-2024
Order number	: ----	Quote number	: HKE/2751/2022_V4	Issue Date	: 22-May-2024
C-O-C number	: ----			No. of samples received	: 2
Site	:			No. of samples analysed	: 2

This report may not be reproduced except with prior written approval from the testing laboratory.

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

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

General Comments

This report supersedes any previous report(s) with the same work order number. All pages of this report have been checked and approved for release. When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes. Testing period is from 08-May-2024 to 21-May-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: HK2417956

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 17:55.

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**

Compound	CAS Number	LOR	Unit	Sample ID	WM1	WM2	----	----	----
				Sampling date / time	08-May-2024	08-May-2024	----	----	----
					HK2417956-001	HK2417956-002	-------	-------	-------
EA/ED: Physical and Aggregate Properties									
EA025: Suspended Solids (SS)	----	0.1	mg/L		2.9	13.8	----	----	----
ED037: Total Alkalinity as CaCO3	----	1	mg/L		9	28	----	----	----
ED/EK: Inorganic Nonmetallic Parameters									
ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L		3	24	----	----	----
ED045K: Chloride	16887-00-6	0.5	mg/L		6	5	----	----	----
EK055K: Ammonia as N	7664-41-7	0.01	mg/L		0.02	0.03	----	----	----
EK058A: Nitrate as N	14797-55-8	0.01	mg/L		0.05	0.30	----	----	----
EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L		0.3	0.2	----	----	----
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		2	1	----	----	----
EP020: Oil & Grease	----	5	mg/L		<5	<5	----	----	----
EP026C: Chemical Oxygen Demand	----	5	mg/L		9	6	----	----	----
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		2	1	----	----	----
EG020: Lead	7439-92-1	1	µg/L		<1	2	----	----	----
EG020: Manganese	7439-96-5	1	µg/L		24	393	----	----	----
EG020: Nickel	7440-02-0	1	µg/L		<1	<1	----	----	----
EG020: Zinc	7440-66-6	10	µg/L		<10	11	----	----	----
EG032: Calcium	7440-70-2	50	µg/L		2440	16200	----	----	----
EG032: Iron	7439-89-6	10	µg/L		220	1030	----	----	----
EG032: Magnesium	7439-95-4	50	µg/L		400	890	----	----	----
EG032: Potassium	7440-09-7	50	µg/L		570	1980	----	----	----
EG032: Sodium	7440-23-5	50	µg/L		6630	5190	----	----	----
EM: Microbiological Testing									
EM002: E. coli	----	1	CFU/100mL		2800	1100	----	----	----

Sub-Matrix: WATER			Sample ID	WM1	WM2	----	----	----
			Sampling date / time	08-May-2024	08-May-2024	----	----	----
Compound	CAS Number	LOR	Unit	HK2417956-001	HK2417956-002	--------	--------	--------
EM: Microbiological Testing - Continued								
EM003: Total Coliforms	----	1	CFU/100mL	4400	2100	----	----	----

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

Laboratory Duplicate (DUP) Report

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

Matrix: **WATER**

				Laboratory Duplicate (DUP) Report				
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Aggregate Properties (QC Lot: 5779646)								
HK2417912-001	Anonymous	ED037: Total Alkalinity as CaCO3	----	1	mg/L	35	35	0.0
EA/ED: Physical and Aggregate Properties (QC Lot: 5780206)								
HK2417631-001	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	34.8	36.3	4.1
HK2418141-006	Anonymous	EA025: Suspended Solids (SS)	----	0.5	mg/L	2.3	2.1	9.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5778571)								
HK2417627-001	Anonymous	EK055K: Ammonia as N	7664-41-7	0.01	mg/L	4.65	4.75	2.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5778590)								
HK2417956-002	WM2	ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	24	24	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5778591)								
HK2417956-002	WM2	ED045K: Chloride	16887-00-6	1	mg/L	5	5	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5781415)								
HK2417851-081	Anonymous	EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	0.02	0.02	0.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5789134)								
HK2418157-001	Anonymous	EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	49.3	49.8	1.0
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5800891)								
HK2417255-001	Anonymous	EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	<2	0.0
EP: Aggregate Organics (QC Lot: 5793928)								
HK2417598-006	Anonymous	EP005: Total Organic Carbon	----	1	mg/L	<1	<1	0.0
EP: Aggregate Organics (QC Lot: 5794638)								
HK2417381-002	Anonymous	EP026C: Chemical Oxygen Demand	----	5	mg/L	<5	<5	0.0
EG: Metals and Major Cations - Total (QC Lot: 5778304)								
HK2417956-001	WM1	EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0
		EG020: Copper	7440-50-8	1	µg/L	2	2	0.0
		EG020: Lead	7439-92-1	1	µg/L	<1	<1	0.0
		EG020: Manganese	7439-96-5	1	µg/L	24	24	0.0
		EG020: Nickel	7440-02-0	1	µg/L	<1	<1	0.0
		EG020: Zinc	7440-66-6	10	µg/L	<10	<10	0.0
EG: Metals and Major Cations - Total (QC Lot: 5778305)								

Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report				
				LOR	Unit	Original Result	Duplicate Result	RPD (%)
EG: Metals and Major Cations - Total (QC Lot: 5778305) - Continued								
HK2417956-002	WM2	**EG032: Iron**	7439-89-6	10	µg/L	1030	1020	0.0
		EG032: Calcium	7440-70-2	50	µg/L	16200	16000	1.5
		EG032: Magnesium	7439-95-4	50	µg/L	890	880	1.6
		EG032: Potassium	7440-09-7	50	µg/L	1980	1960	0.9
		EG032: Sodium	7440-23-5	50	µg/L	5190	5070	2.3

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

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
					Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC Lot: 5779646)											
ED037: Total Alkalinity as CaCO3	----	1	mg/L	<1	50 mg/L	103	----	95.0	105	----	----
EA/ED: Physical and Aggregate Properties (QC Lot: 5780206)											
EA025: Suspended Solids (SS)	----	0.5	mg/L	<0.5	10 mg/L	94.0	----	84.9	114	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5778571)											
EK055K: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	97.8	----	89.3	109	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5778590)											
ED041K: Sulphate as SO4 - Turbidimetric	----	1	mg/L	<1	5 mg/L	106	----	93.8	108	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5778591)											
ED045K: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	95.6	----	88.2	108	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5781415)											
EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	102	----	92.4	106	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5789134)											
EK061A: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	0.5 mg/L	95.2	----	90.1	123	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5800891)											
EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	----	----	----	----	----	----	----
EP: Aggregate Organics (QC Lot: 5779357)											
EP030: Biochemical Oxygen Demand	----	----	mg/L	----	198 mg/L	101	----	77.6	118	----	----
EP: Aggregate Organics (QC Lot: 5793928)											

Matrix: **WATER**

Method: Compound	CAS Number	Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report					
					Spike Concentration	Spike Recovery (%)		Recovery Limits(%)		RPD (%)	
		LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EP: Aggregate Organics (QC Lot: 5793928) - Continued											
EP005: Total Organic Carbon	----	1	mg/L	<1	5 mg/L	95.8	----	81.7	124	----	----
				<1	100 mg/L	94.7	----	82.9	122	----	----
EP: Aggregate Organics (QC Lot: 5794638)											
EP026C: Chemical Oxygen Demand	----	----	mg/L	----	25 mg/L	98.8	----	92.0	108	----	----
				----	250 mg/L	100	----	92.3	106	----	----
EP: Aggregate Organics (QC Lot: 5796951)											
EP020: Oil & Grease	----	2	mg/L	<2	20 mg/L	102	----	79.1	108	----	----
EG: Metals and Major Cations - Total (QC Lot: 5778304)											
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	5 µg/L	96.0	----	85.0	109	----	----
EG020: Copper	7440-50-8	1	µg/L	<1	50 µg/L	99.1	----	90.0	111	----	----
EG020: Lead	7439-92-1	1	µg/L	<1	50 µg/L	98.0	----	89.0	111	----	----
EG020: Manganese	7439-96-5	1	µg/L	<1	50 µg/L	96.5	----	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	97.3	----	86.0	114	----	----
EG: Metals and Major Cations - Total (QC Lot: 5778305)											
EG032: Calcium	7440-70-2	50	µg/L	<50	2000 µg/L	100	----	85.0	115	----	----
EG032: Iron	7439-89-6	10	µg/L	<10	2000 µg/L	104	----	85.0	115	----	----
EG032: Magnesium	7439-95-4	50	µg/L	<50	2000 µg/L	105	----	85.0	115	----	----
EG032: Potassium	7440-09-7	50	µg/L	<50	2000 µg/L	99.8	----	85.0	115	----	----
EG032: Sodium	7440-23-5	50	µg/L	<50	2000 µg/L	104	----	85.0	115	----	----

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

Matrix: **WATER**

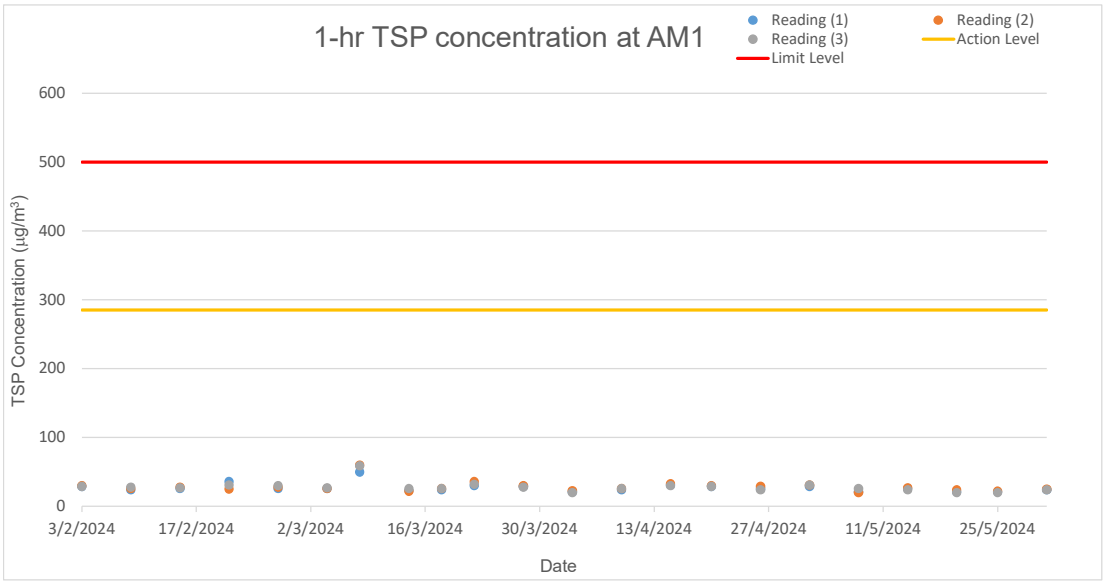
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5778571)										
HK2417627-001	Anonymous	**EK055K: Ammonia as N**	7664-41-7	5 mg/L	111	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5778590)										
HK2417956-002	WM2	**ED041K: Sulphate as SO4 - Turbidimetric**	----	50 mg/L	93.9	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5778591)										
HK2417956-002	WM2	**ED045K: Chloride**	16887-00-6	5 mg/L	85.7	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5781415)										
HK2417851-081	Anonymous	**EK071K: Reactive Phosphorus as P**	14265-44-2	0.5 mg/L	119	----	75.0	125	----	----
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5789134)										
HK2418157-001	Anonymous	**EK061A: Total Kjeldahl Nitrogen as N**	----	5 mg/L	# Not Determined	----	75.0	125	----	----
EP: Aggregate Organics (QC Lot: 5793928)										
HK2417598-006	Anonymous	**EP005: Total Organic Carbon**	----	5 mg/L	97.4	----	75.0	125	----	----
EP: Aggregate Organics (QC Lot: 5794638)										
HK2417381-001	Anonymous	**EP026C: Chemical Oxygen Demand**	----	10 mg/L	82.0	----	75.0	125	----	----
EG: Metals and Major Cations - Total (QC Lot: 5778304)										
HK2417874-001	Anonymous	**EG020: Cadmium**	7440-43-9	5 µg/L	105	----	75.0	125	----	----
		EG020: Copper	7440-50-8	50 µg/L	106	----	75.0	125	----	----
		EG020: Lead	7439-92-1	50 µg/L	99.0	----	75.0	125	----	----
		EG020: Manganese	7439-96-5	50 µg/L	99.4	----	75.0	125	----	----
		EG020: Nickel	7440-02-0	50 µg/L	102	----	75.0	125	----	----
		EG020: Zinc	7440-66-6	50 µg/L	96.7	----	75.0	125	----	----
EG: Metals and Major Cations - Total (QC Lot: 5778305)										
HK2417956-001	WM1	**EG032: Calcium**	7440-70-2	2000 µg/L	105	----	75.0	125	----	----
		EG032: Iron	7439-89-6	2000 µg/L	105	----	75.0	125	----	----
		EG032: Magnesium	7439-95-4	2000 µg/L	105	----	75.0	125	----	----

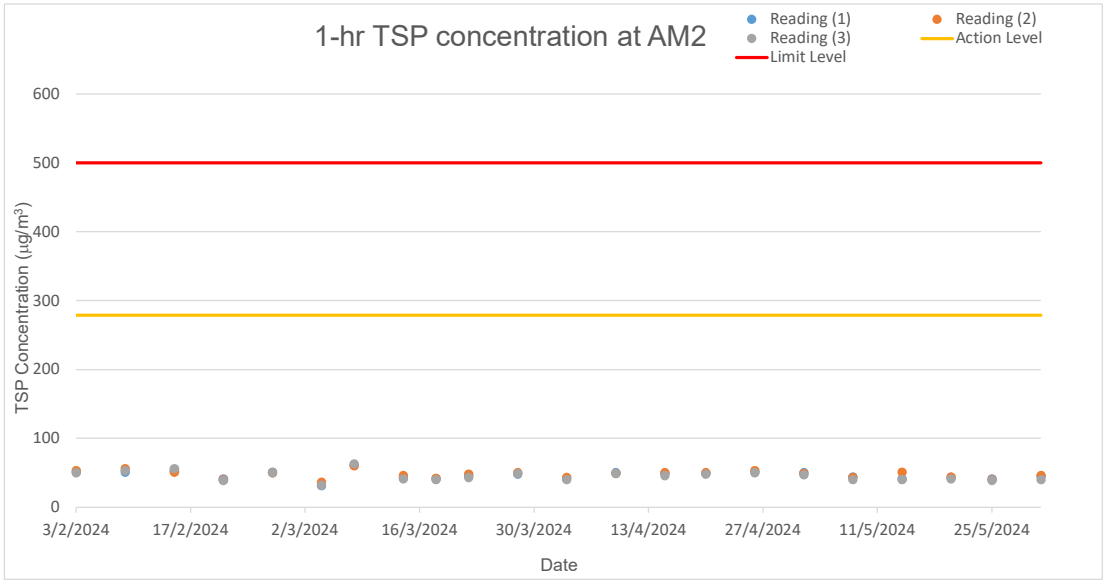
Matrix: **WATER**

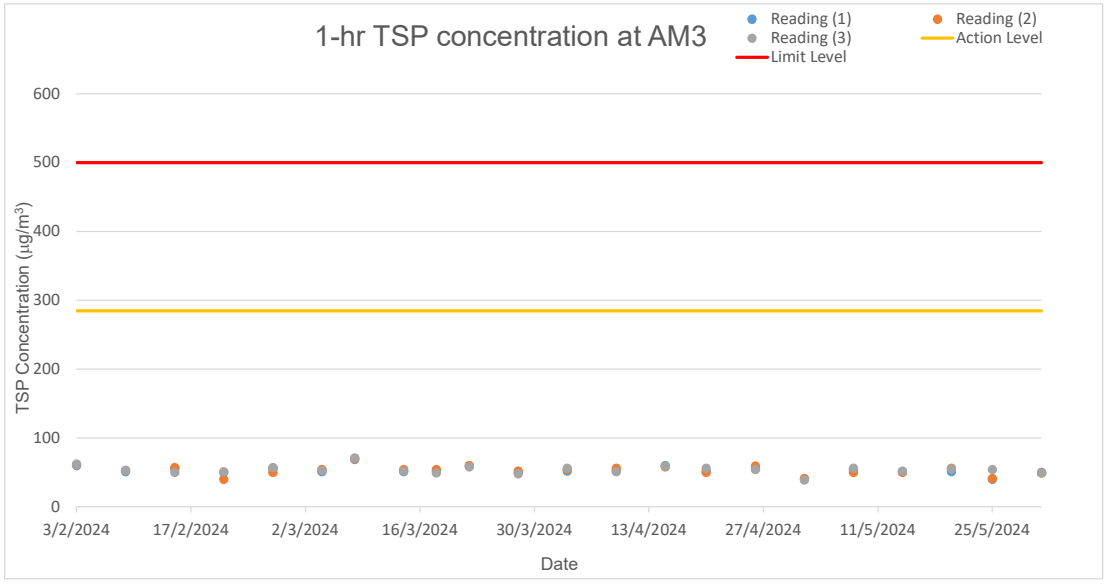
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike Concentration	Spike Recovery (%)		Recovery Limits (%)		RPD (%)	
					MS	MSD	Low	High	Value	Control Limit
EG: Metals and Major Cations - Total (QC Lot: 5778305) - Continued										
HK2417956-001	WM1	**EG032: Potassium**	7440-09-7	2000 µg/L	104	----	75.0	125	----	----
		EG032: Sodium	7440-23-5	2000 µg/L	102	----	75.0	125	----	----

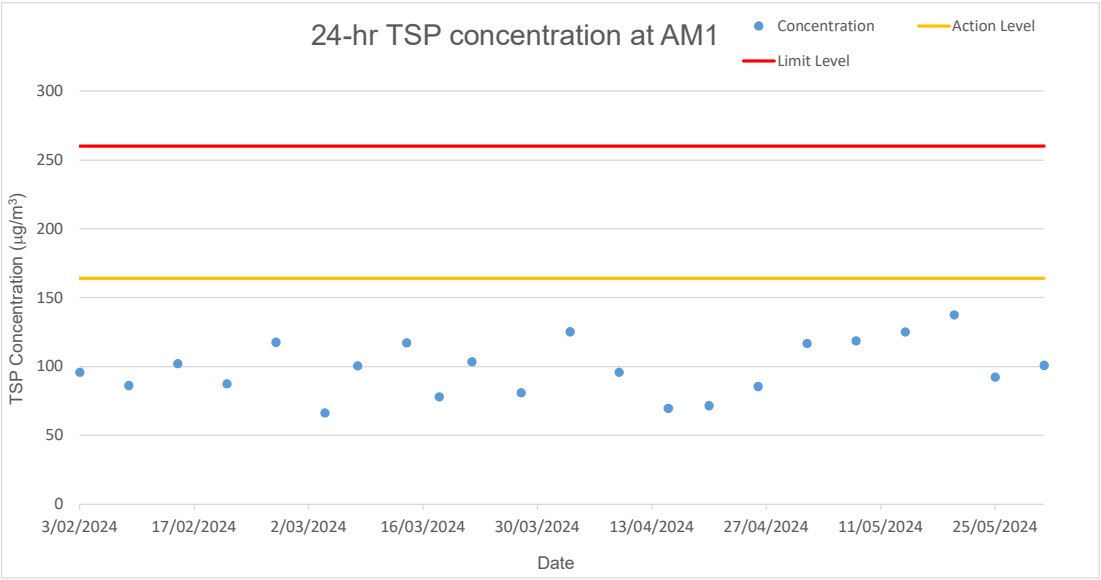
Appendix G Graphical Presentations

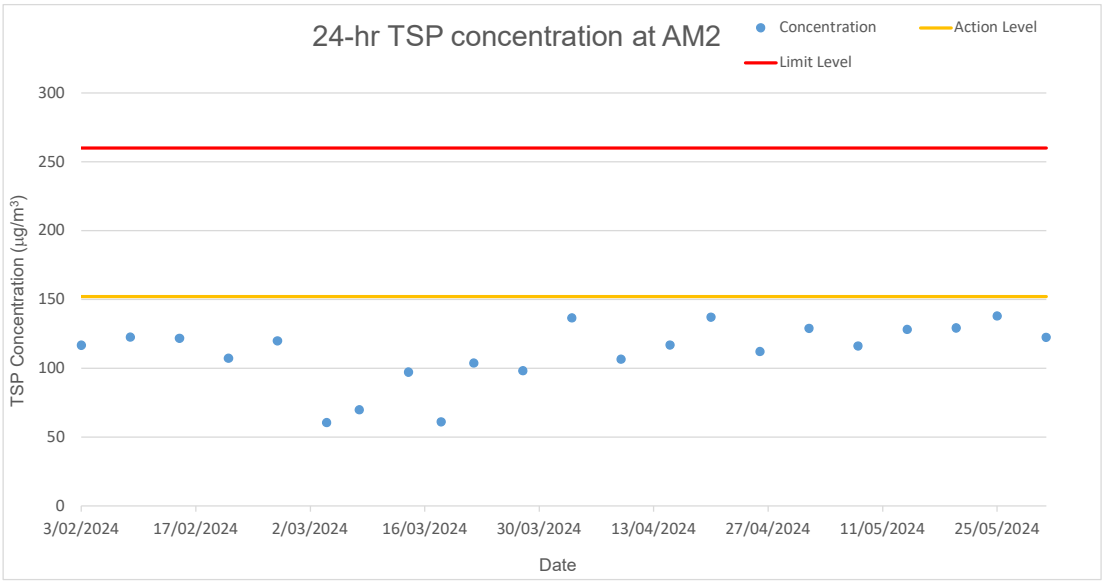
Air Quality

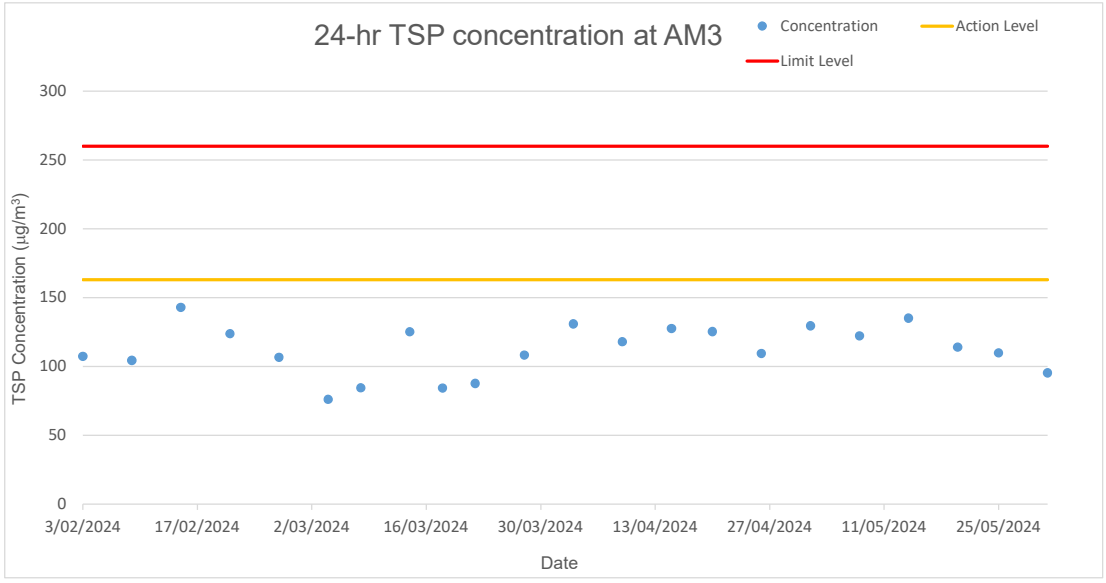

1-hr TSP concentration at AM1
Reading (1)
Reading (2)
Reading (3)
Action Level
Limit Level
TSP Concentration (µg/m³)
600
500
400
300
200
100
0
3/2/2024
17/2/2024
2/3/2024
16/3/2024
30/3/2024
13/4/2024
27/4/2024
11/5/2024
25/5/2024
Date


1-hr TSP concentration at AM2
Reading (1)
Reading (2)
Reading (3)
Action Level
Limit Level
TSP Concentration (µg/m³)
600
500
400
300
200
100
0
3/2/2024
17/2/2024
2/3/2024
16/3/2024
30/3/2024
13/4/2024
27/4/2024
11/5/2024
25/5/2024
Date

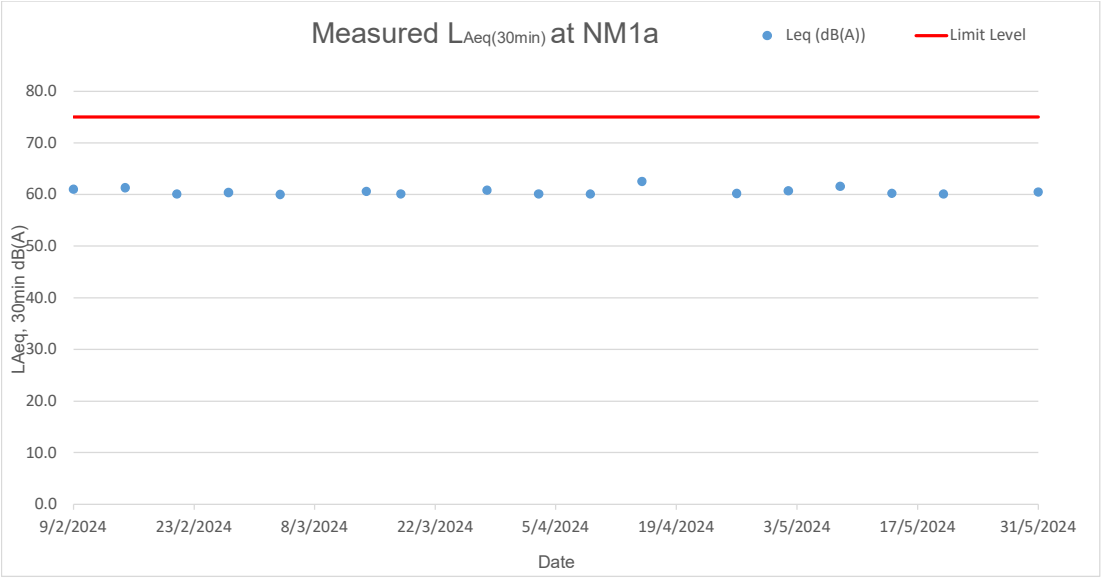

1-hr TSP concentration at AM3
Reading (1)
Reading (2)
Reading (3)
Action Level
Limit Level
TSP Concentration (µg/m³)
600
500
400
300
200
100
0
3/2/2024
17/2/2024
2/3/2024
16/3/2024
30/3/2024
13/4/2024
27/4/2024
11/5/2024
25/5/2024
Date

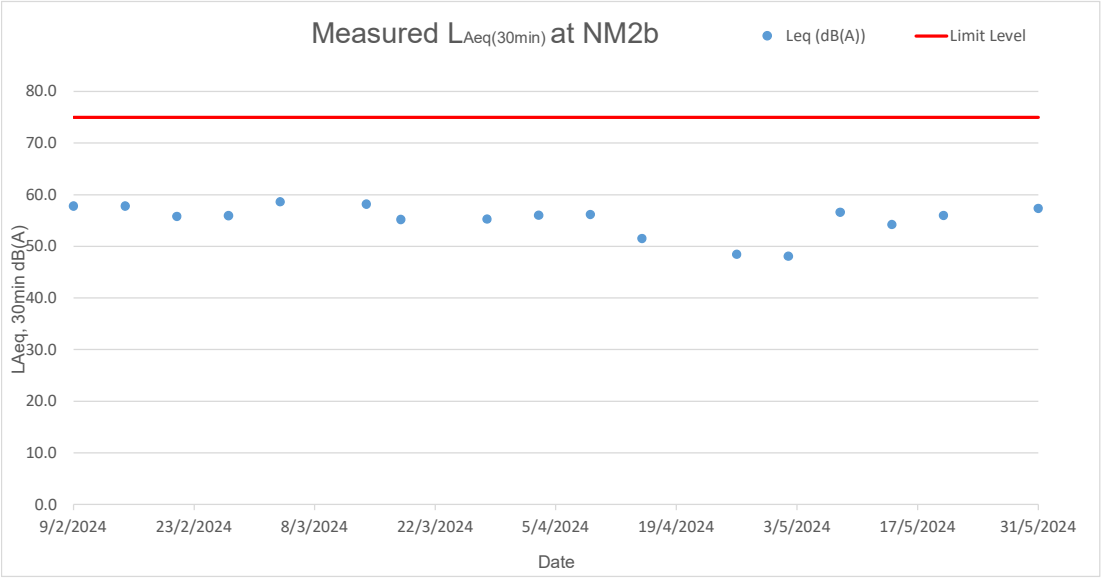

24-hr TSP concentration at AM1
Concentration
Action Level
Limit Level
TSP Concentration (μg/m³)
300
250
200
150
100
50
0
3/02/2024
17/02/2024
2/03/2024
16/03/2024
30/03/2024
13/04/2024
27/04/2024
11/05/2024
25/05/2024
Date


24-hr TSP concentration at AM2
Concentration
Action Level
Limit Level
TSP Concentration (μg/m³)
300
250
200
150
100
50
0
3/02/2024
17/02/2024
2/03/2024
16/03/2024
30/03/2024
13/04/2024
27/04/2024
11/05/2024
25/05/2024
Date


24-hr TSP concentration at AM3
Concentration
Action Level
Limit Level
TSP Concentration (μg/m³)
300
250
200
150
100
50
0
3/02/2024
17/02/2024
2/03/2024
16/03/2024
30/03/2024
13/04/2024
27/04/2024
11/05/2024
25/05/2024
Date

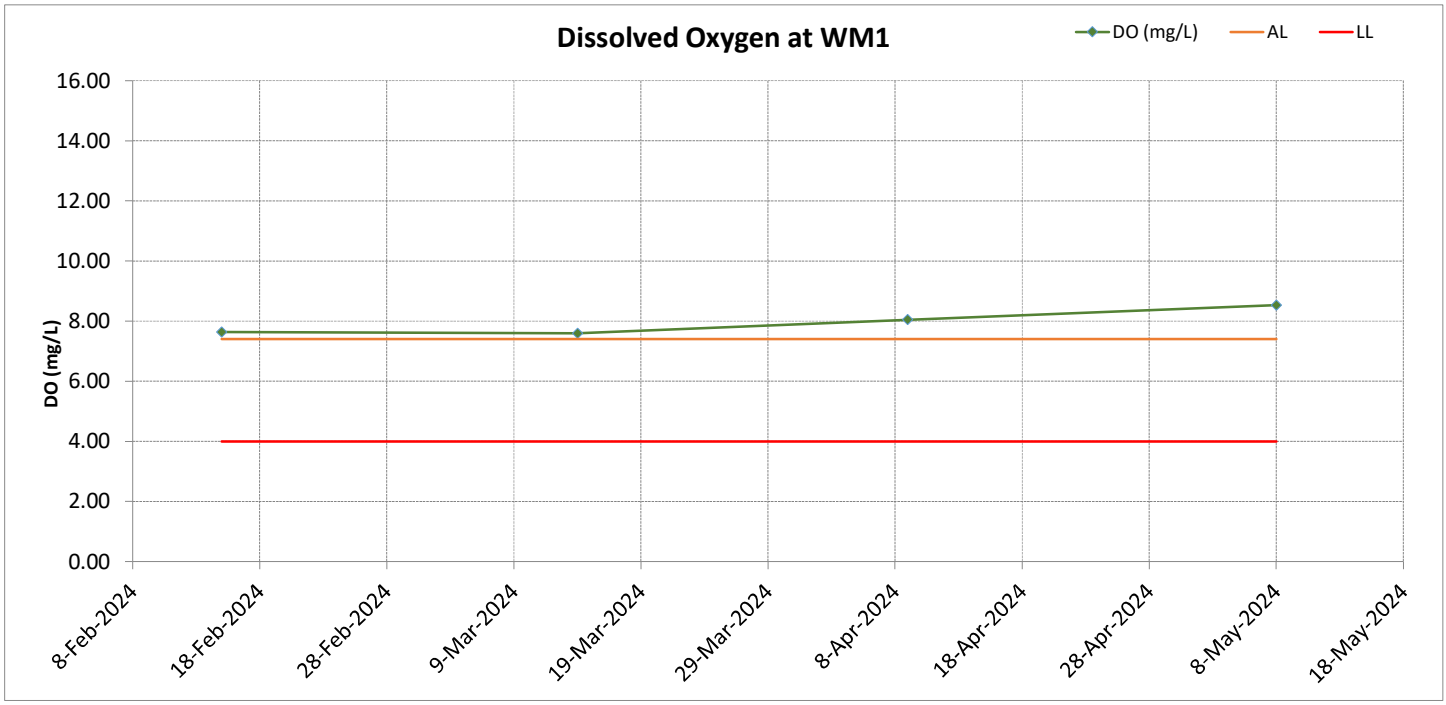
Noise

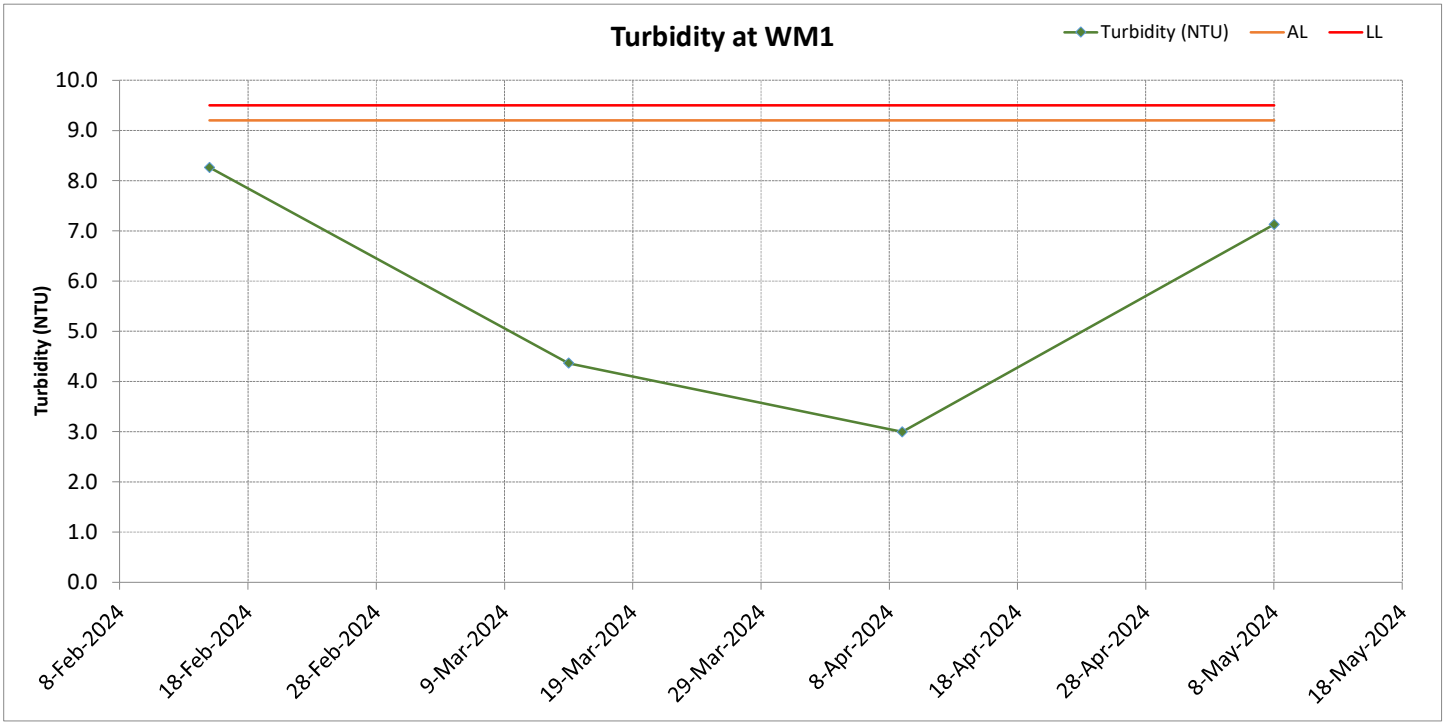

Measured LAeq(30min) at NM1a
Leq (dB(A))
Limit Level
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
LAeq, 30min dB(A)
9/2/2024
23/2/2024
8/3/2024
22/3/2024
5/4/2024
19/4/2024
3/5/2024
17/5/2024
31/5/2024
Date


Measured LAeq(30min) at NM2b
Leq (dB(A))
Limit Level
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
LAeq, 30min dB(A)
9/2/2024
23/2/2024
8/3/2024
22/3/2024
5/4/2024
19/4/2024
3/5/2024
17/5/2024
31/5/2024
Date

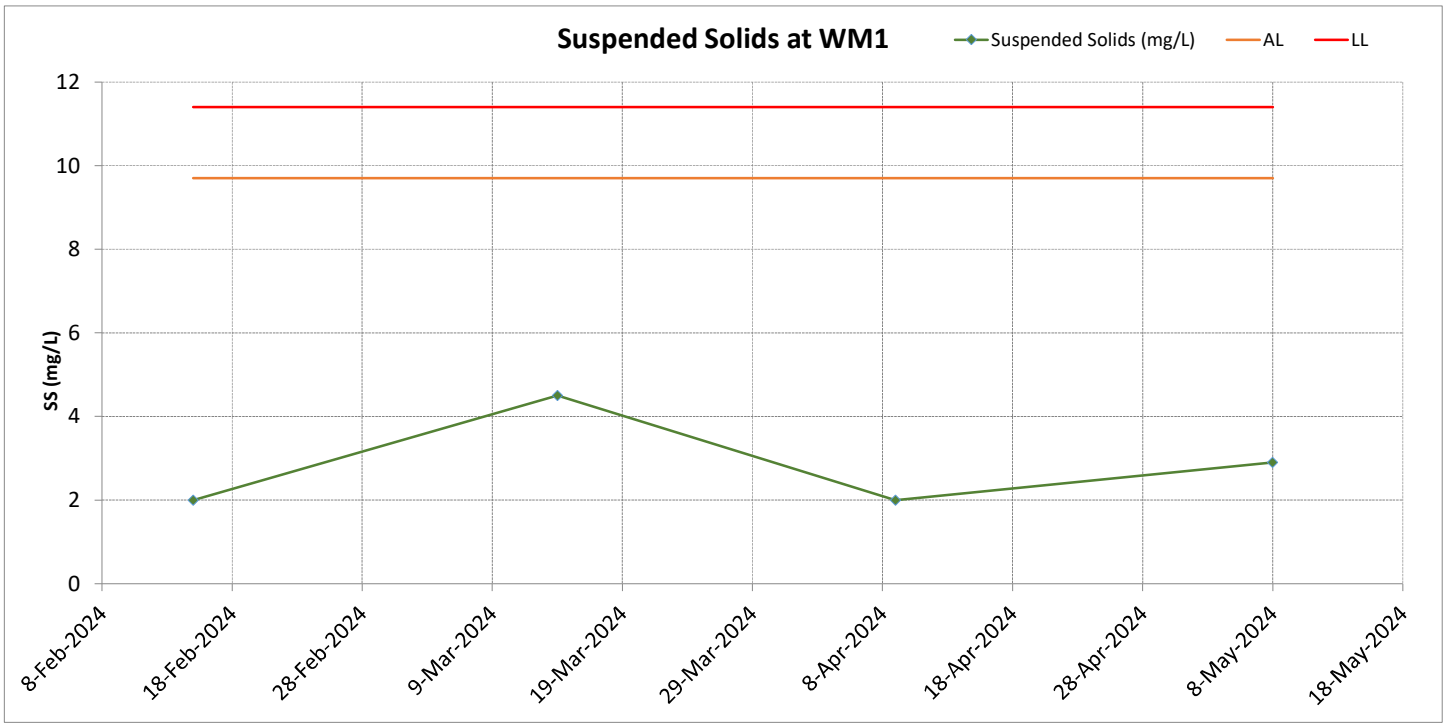
Water Quality

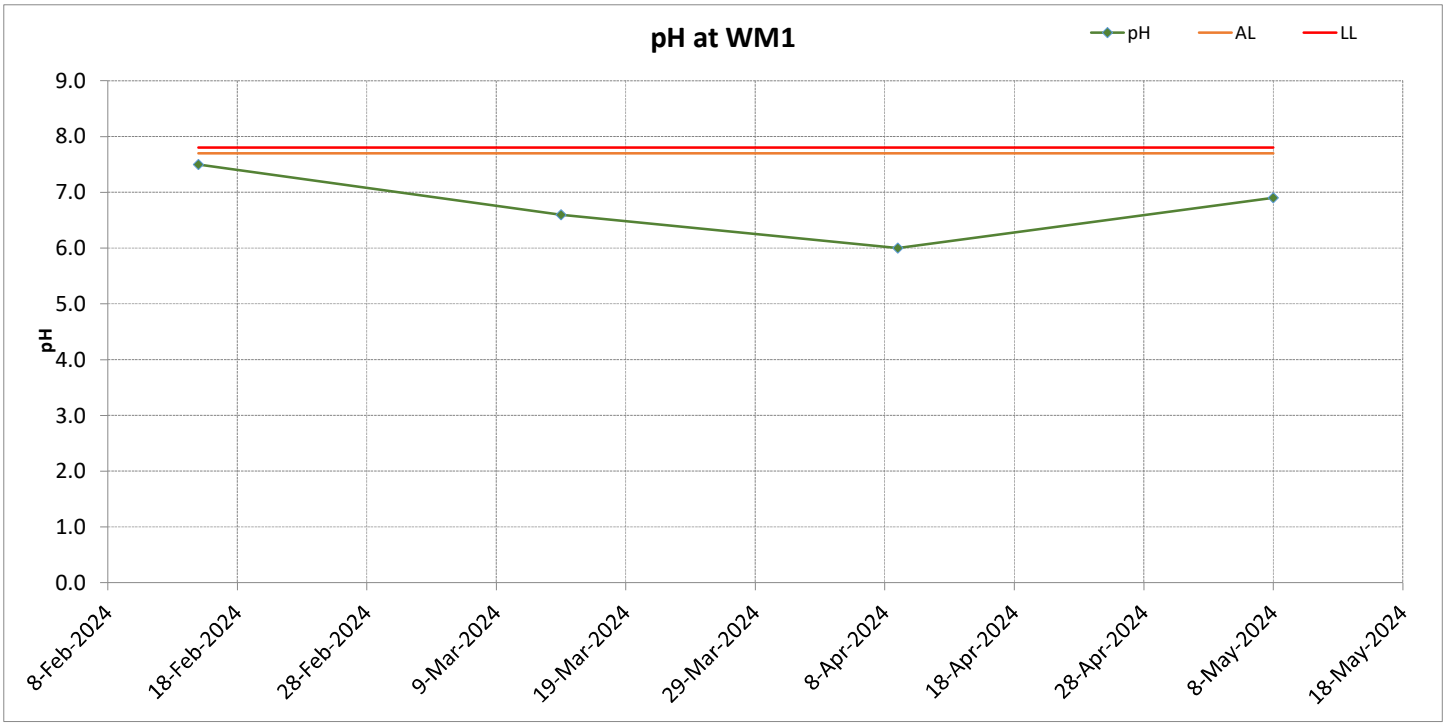
Surface Water Monitoring Results at WM1



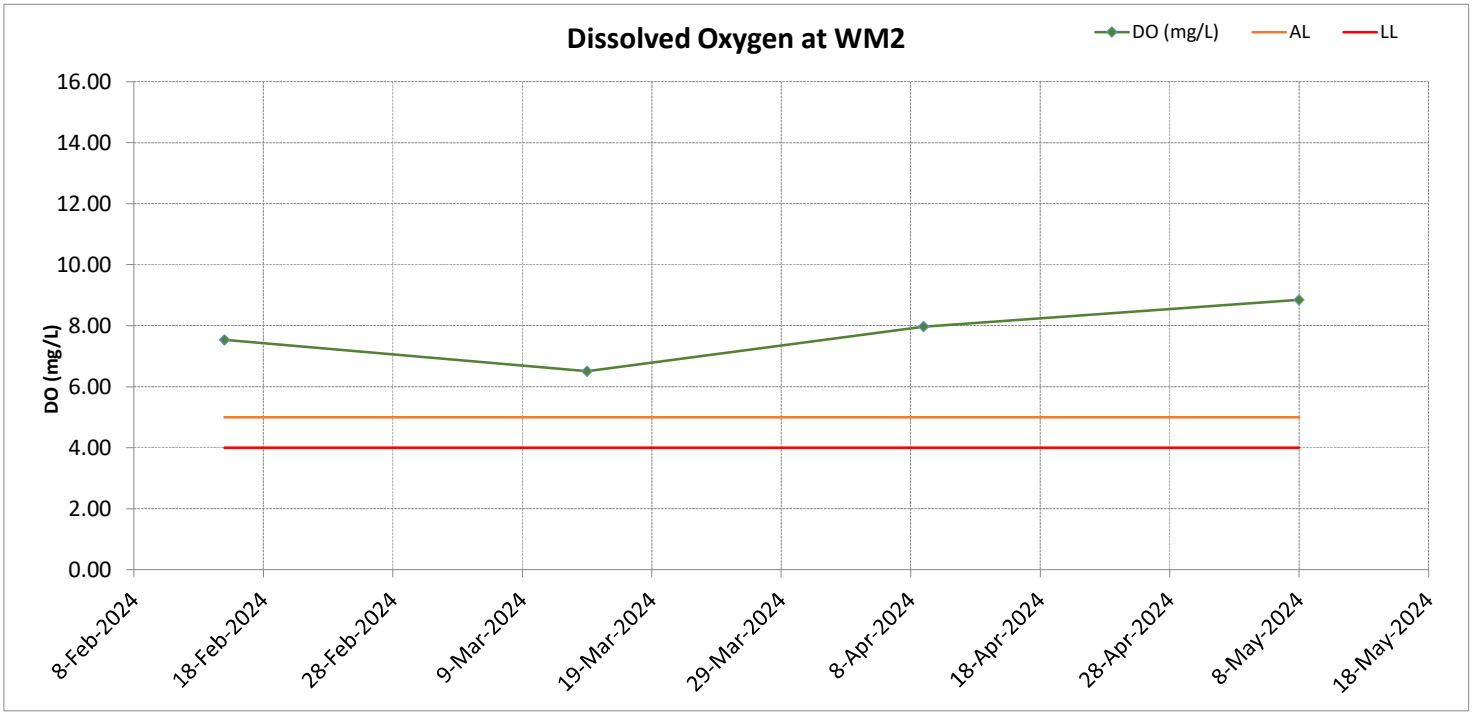


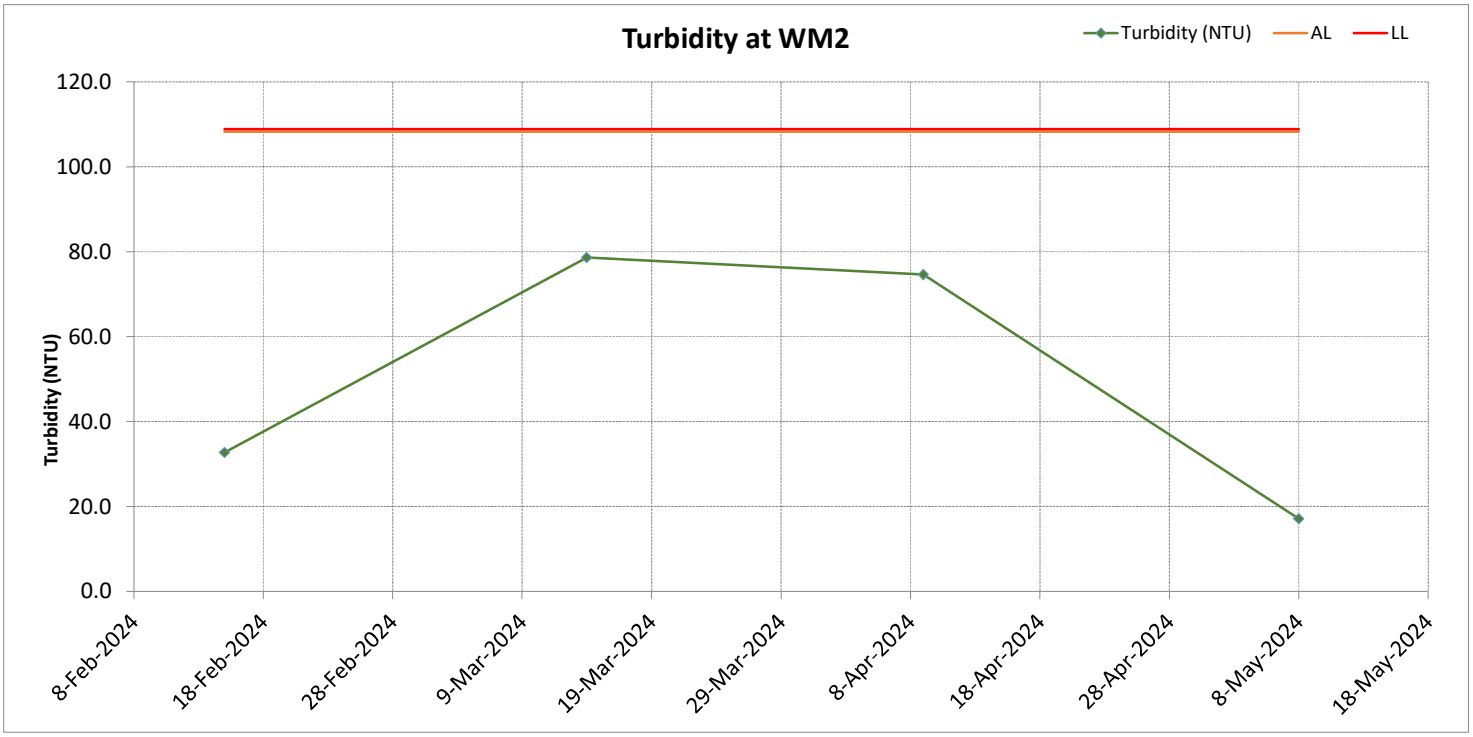
Surface Water Monitoring Results at WM1



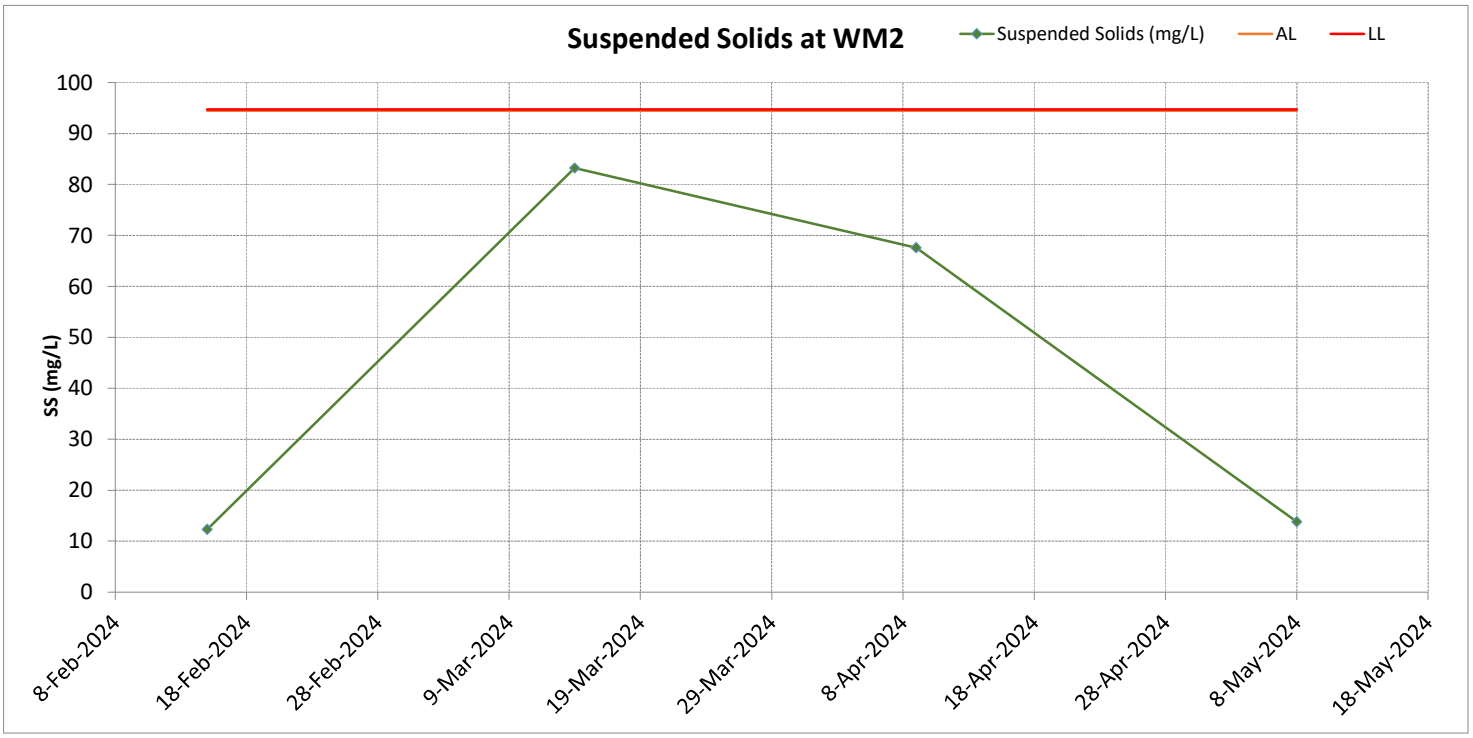


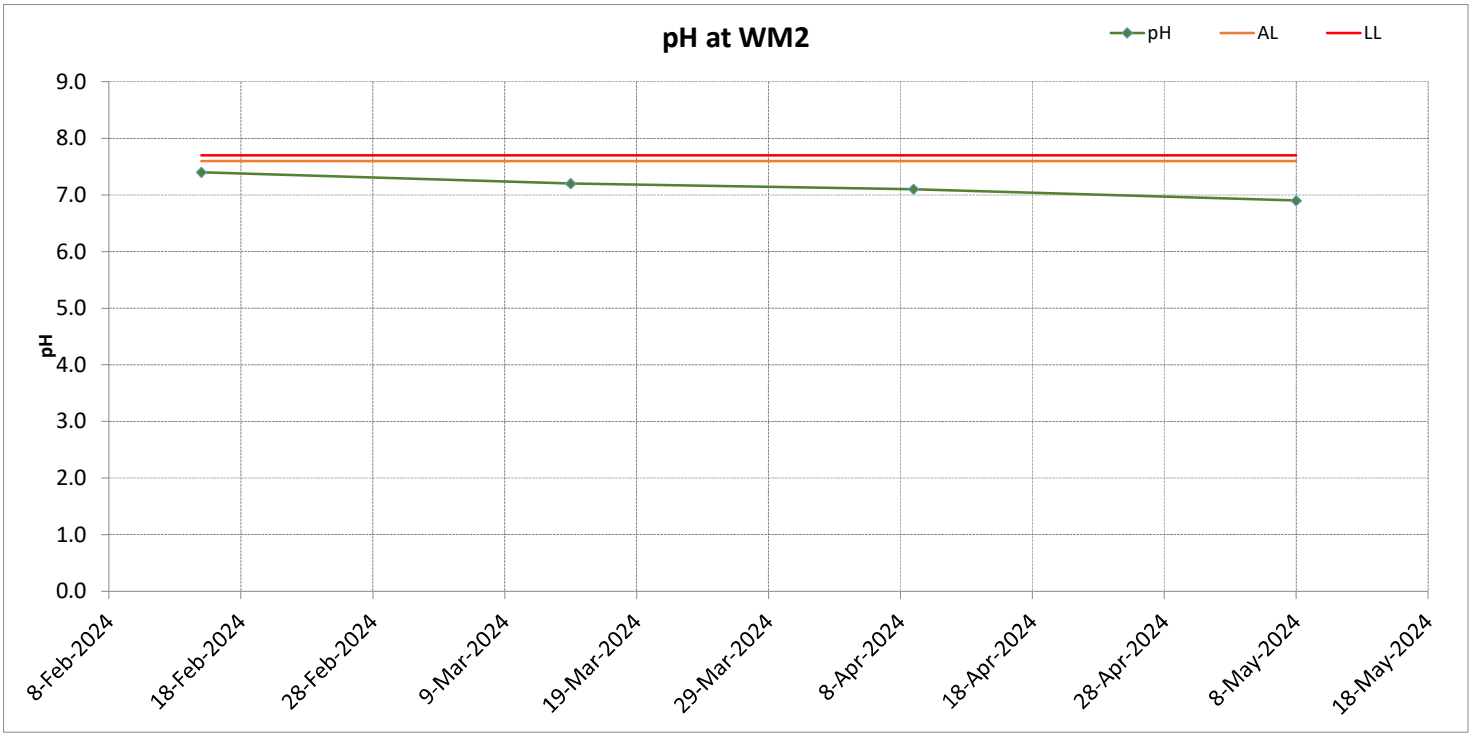
Surface Water Monitoring Results at WM2





Surface Water Monitoring Results at WM2





Appendix H Notification of Environmental Quality Limits Exceedance

Notification of Environmental Quality Limits Exceedance

Air Quality Monitoring - Construction Dust

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

Noise Monitoring

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

Notification of Environmental Quality Limits Exceedance

Surface Water Monitoring

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

Remarks:

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

Landfill Gas (LFG) Monitoring

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

Appendix I Wind Data

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240501_0003	0.1	46
20240501_0013	0.1	79
20240501_0023	0.1	0
20240501_0033	0.1	172
20240501_0043	0.1	139
20240501_0053	0.1	272
20240501_0103	0.1	125
20240501_0113	0.1	258
20240501_0123	0.1	13
20240501_0133	0.1	123
20240501_0143	0.1	336
20240501_0153	0.1	112
20240501_0203	0.1	37
20240501_0213	0.1	243
20240501_0223	0.1	37
20240501_0233	0.1	346
20240501_0243	0.1	254
20240501_0253	1	80
20240501_0303	0.1	76
20240501_0313	0.1	265
20240501_0323	0.1	350
20240501_0333	0.1	40
20240501_0343	0.1	285
20240501_0353	2	20
20240501_0403	0.5	62
20240501_0413	0.5	130
20240501_0423	1.3	112
20240501_0433	0.1	87
20240501_0443	0.1	271
20240501_0453	1.6	4
20240501_0503	2	311
20240501_0513	1.4	151
20240501_0523	1	63
20240501_0533	0.1	84
20240501_0543	1.2	339
20240501_0553	2	47
20240501_0603	0.6	156
20240501_0613	0.1	24
20240501_0623	0.1	265
20240501_0633	0.1	101
20240501_0643	1.7	126
20240501_0653	0.2	152
20240501_0703	1.2	110
20240501_0713	0.1	152
20240501_0723	1.1	351
20240501_0733	0.4	322
20240501_0743	0.4	287
20240501_0753	0.1	159
20240501_0803	0.1	166
20240501_0813	0.1	156
20240501_0823	0.1	282
20240501_0833	0.1	114
20240501_0843	0.1	94
20240501_0853	0.1	94
20240501_0903	0.1	105
20240501_0913	0.1	105
20240501_0923	0.1	88
20240501_0933	0.1	190
20240501_0943	0.1	240
20240501_0953	0.1	295
20240501_1003	0.1	325
20240501_1013	0.1	309
20240501_1023	0.1	287
20240501_1033	0.1	150
20240501_1043	0.1	246
20240501_1053	0.1	220
20240501_1103	0.1	145
20240501_1113	0.1	209
20240501_1123	0.1	208
20240501_1133	0.1	204
20240501_1143	0.1	203
20240501_1153	0.1	185

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240501_1203	0.1	144
20240501_1213	0.1	111
20240501_1223	0.1	134
20240501_1233	0.1	94
20240501_1243	0.1	307
20240501_1253	0.1	253
20240501_1303	0.1	12
20240501_1313	0.2	28
20240501_1323	0.1	141
20240501_1333	0.9	51
20240501_1343	0.1	84
20240501_1353	0.1	104
20240501_1403	0.1	63
20240501_1413	0.1	42
20240501_1423	0.1	140
20240501_1433	0.1	101
20240501_1443	0.1	263
20240501_1453	0.1	113
20240501_1503	0.1	79
20240501_1513	0.1	107
20240501_1523	0.1	103
20240501_1533	0.1	84
20240501_1543	0.1	158
20240501_1553	0.1	133
20240501_1603	1.3	113
20240501_1613	0.4	155
20240501_1623	0.1	118
20240501_1633	0.1	140
20240501_1643	0.1	80
20240501_1653	0.1	198
20240501_1703	0.1	131
20240501_1713	0.1	200
20240501_1723	0.1	148
20240501_1733	0.1	56
20240501_1743	0.1	56
20240501_1753	0.1	60
20240501_1803	0.1	56
20240501_1813	0.1	332
20240501_1823	0.1	289
20240501_1833	0.1	100
20240501_1843	0.1	131
20240501_1853	0.1	161
20240501_1903	0.1	169
20240501_1913	0.1	169
20240501_1923	0.1	132
20240501_1933	0.1	132
20240501_1943	0.1	132
20240501_1953	0.1	50
20240501_2003	0.1	47
20240501_2013	0.1	138
20240501_2023	0.1	119
20240501_2033	0.1	30
20240501_2043	0.1	30
20240501_2053	0.1	101
20240501_2103	0.1	101
20240501_2113	0.1	101
20240501_2123	0.1	101
20240501_2133	0.1	142
20240501_2143	0.1	260
20240501_2153	0.1	260
20240501_2203	0.1	151
20240501_2213	0.1	108
20240501_2223	0.1	130
20240501_2233	0.1	130
20240501_2243	0.1	167
20240501_2253	0.1	167
20240501_2303	0.1	209
20240501_2313	0.1	261
20240501_2323	0.1	260
20240501_2333	0.1	159
20240501_2343	0.1	138
20240501_2353	0.1	138

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240502_0003	0.1	138
20240502_0013	0.1	138
20240502_0023	0.1	190
20240502_0033	0.1	189
20240502_0043	0.1	125
20240502_0053	0.1	125
20240502_0103	0.1	153
20240502_0113	0.1	150
20240502_0123	0.1	151
20240502_0133	0.1	151
20240502_0143	0.1	153
20240502_0153	0.1	153
20240502_0203	0.1	260
20240502_0213	0.1	139
20240502_0223	0.1	142
20240502_0233	0.1	114
20240502_0243	0.1	189
20240502_0253	0.1	180
20240502_0303	0.1	244
20240502_0313	0.1	42
20240502_0323	0.1	42
20240502_0333	0.1	184
20240502_0343	0.1	145
20240502_0353	0.1	304
20240502_0403	0.1	152
20240502_0413	0.1	152
20240502_0423	0.1	144
20240502_0433	0.1	144
20240502_0443	0.1	144
20240502_0453	0.1	144
20240502_0503	0.1	144
20240502_0513	0.1	141
20240502_0523	0.1	135
20240502_0533	0.1	135
20240502_0543	0.1	43
20240502_0553	0.1	337
20240502_0603	0.1	78
20240502_0613	0.1	108
20240502_0623	0.1	135
20240502_0633	0.1	135
20240502_0643	0.1	121
20240502_0653	0.1	120
20240502_0703	0.1	125
20240502_0713	0.1	157
20240502_0723	0.1	150
20240502_0733	0.1	256
20240502_0743	0.1	146
20240502_0753	0.1	149
20240502_0803	0.2	135
20240502_0813	0.1	245
20240502_0823	0.1	246
20240502_0833	0.1	139
20240502_0843	1.6	17
20240502_0853	0.1	345
20240502_0903	0.1	55
20240502_0913	0.1	44
20240502_0923	0.1	150
20240502_0933	0.1	139
20240502_0943	0.1	152
20240502_0953	0.1	286
20240502_1003	0.1	139
20240502_1013	0.1	250
20240502_1023	0.1	146
20240502_1033	0.1	240
20240502_1043	0.1	92
20240502_1053	0.1	348
20240502_1103	1.2	23
20240502_1113	0.1	4
20240502_1123	0.1	36
20240502_1133	0.7	40
20240502_1143	0.1	53
20240502_1153	0.1	27

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240502_1203	0.1	348
20240502_1213	0.1	210
20240502_1223	0.1	232
20240502_1233	0.1	244
20240502_1243	0.5	29
20240502_1253	0.2	333
20240502_1303	1.7	74
20240502_1313	1.6	47
20240502_1323	0.1	185
20240502_1333	0.1	156
20240502_1343	0.3	56
20240502_1353	0.1	10
20240502_1403	0.1	67
20240502_1413	0.4	68
20240502_1423	0.1	87
20240502_1433	0.3	68
20240502_1443	0.1	248
20240502_1453	0.2	155
20240502_1503	0.1	54
20240502_1513	0.1	37
20240502_1523	0.1	269
20240502_1533	0.2	18
20240502_1543	0.1	159
20240502_1553	0.4	128
20240502_1603	0.4	69
20240502_1613	0.7	90
20240502_1623	1.7	115
20240502_1633	1.2	134
20240502_1643	0.1	0
20240502_1653	1.9	58
20240502_1703	1.6	144
20240502_1713	8.1	49
20240502_1723	0.1	123
20240502_1733	5.3	347
20240502_1743	0.2	153
20240502_1753	0.1	120
20240502_1803	0.6	65
20240502_1813	2.2	83
20240502_1823	5	46
20240502_1833	1.9	130
20240502_1843	0.5	8
20240502_1853	2.2	20
20240502_1903	0.4	72
20240502_1913	1	314
20240502_1923	0.2	50
20240502_1933	0.6	68
20240502_1943	0.1	342
20240502_1953	0.1	98
20240502_2003	5.5	65
20240502_2013	0.3	44
20240502_2023	1	94
20240502_2033	1.2	243
20240502_2043	0.4	116
20240502_2053	2.7	329
20240502_2103	1.1	339
20240502_2113	3.8	35
20240502_2123	0.2	274
20240502_2133	1.4	19
20240502_2143	4	44
20240502_2153	0.9	62
20240502_2203	0.2	109
20240502_2213	1.9	44
20240502_2223	0.1	315
20240502_2233	2.6	69
20240502_2243	0.8	331
20240502_2253	2.8	31
20240502_2303	2.3	30
20240502_2313	0.1	68
20240502_2323	1.4	68
20240502_2333	1.2	162
20240502_2343	0.1	180
20240502_2353	2	63

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240503_0003	0.1	34
20240503_0013	0.1	56
20240503_0023	0.9	162
20240503_0033	1.1	46
20240503_0043	0.1	209
20240503_0053	0.1	159
20240503_0103	1.6	163
20240503_0113	2.7	19
20240503_0123	0.9	157
20240503_0133	2.3	98
20240503_0143	2.3	102
20240503_0153	0.6	112
20240503_0203	0.2	326
20240503_0213	0.2	135
20240503_0223	3.8	347
20240503_0233	0.1	59
20240503_0243	0.3	24
20240503_0253	0.3	20
20240503_0303	0.3	164
20240503_0313	1	36
20240503_0323	0.1	129
20240503_0333	0.1	340
20240503_0343	0.1	184
20240503_0353	1.8	76
20240503_0403	0.6	65
20240503_0413	1.5	333
20240503_0423	1.8	41
20240503_0433	0.8	156
20240503_0443	0.6	68
20240503_0453	4	19
20240503_0503	1.9	166
20240503_0513	0.1	133
20240503_0523	0.3	28
20240503_0533	1	43
20240503_0543	2.8	48
20240503_0553	0.1	78
20240503_0603	4.5	131
20240503_0613	0.4	339
20240503_0623	0.1	320
20240503_0633	0.9	123
20240503_0643	1.1	32
20240503_0653	0.4	158
20240503_0703	8.9	76
20240503_0713	1.5	66
20240503_0723	2.5	68
20240503_0733	11.1	69
20240503_0743	3.5	352
20240503_0753	0.3	166
20240503_0803	1.1	0
20240503_0813	0.2	183
20240503_0823	3.5	58
20240503_0833	0.1	115
20240503_0843	3.8	66
20240503_0853	6.9	19
20240503_0903	0.1	132
20240503_0913	0.1	334
20240503_0923	2.2	169
20240503_0933	1.3	118
20240503_0943	1.8	1
20240503_0953	1.7	26
20240503_1003	1.4	88
20240503_1013	1	209
20240503_1023	0.5	84
20240503_1033	1.2	49
20240503_1043	0.1	92
20240503_1053	12.2	51
20240503_1103	1	355
20240503_1113	1.5	37
20240503_1123	1.1	128
20240503_1133	5.6	31
20240503_1143	8.6	67
20240503_1153	0.5	113

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240503_1203	5.8	339
20240503_1213	6.2	55
20240503_1223	3.1	1
20240503_1233	2.3	333
20240503_1243	1.8	351
20240503_1253	2.1	49
20240503_1303	0.4	330
20240503_1313	0.8	55
20240503_1323	0.1	308
20240503_1333	1.1	118
20240503_1343	4.3	27
20240503_1353	0.1	28
20240503_1403	3	315
20240503_1413	1.1	349
20240503_1423	0.1	28
20240503_1433	0.2	348
20240503_1443	2.3	338
20240503_1453	0.1	52
20240503_1503	2.1	321
20240503_1513	0.2	355
20240503_1523	0.1	17
20240503_1533	0.2	104
20240503_1543	0.1	69
20240503_1553	0.5	98
20240503_1603	3.3	324
20240503_1613	0.6	133
20240503_1623	0.1	26
20240503_1633	0.4	96
20240503_1643	1.8	72
20240503_1653	0.1	60
20240503_1703	0.1	94
20240503_1713	0.1	291
20240503_1723	2.4	335
20240503_1733	0.1	194
20240503_1743	0.4	31
20240503_1753	0.2	23
20240503_1803	1.6	106
20240503_1813	4.4	170
20240503_1823	0.3	0
20240503_1833	0.3	330
20240503_1843	0.7	55
20240503_1853	0.2	213
20240503_1903	0.1	136
20240503_1913	0.2	301
20240503_1923	2.5	83
20240503_1933	0.1	258
20240503_1943	0.1	25
20240503_1953	0.2	102
20240503_2003	0.8	118
20240503_2013	0.1	55
20240503_2023	0.1	124
20240503_2033	0.1	142
20240503_2043	0.1	167
20240503_2053	0.4	110
20240503_2103	0.1	2
20240503_2113	0.1	94
20240503_2123	0.1	233
20240503_2133	0.2	59
20240503_2143	0.1	224
20240503_2153	3.6	41
20240503_2203	0.1	326
20240503_2213	0.1	5
20240503_2223	0.5	135
20240503_2233	2.1	340
20240503_2243	0.1	174
20240503_2253	1	41
20240503_2303	0.3	16
20240503_2313	6.3	31
20240503_2323	7.5	44
20240503_2333	2.8	59
20240503_2343	1.8	40
20240503_2353	0.7	242

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240504_0003	5.3	14
20240504_0013	9.1	92
20240504_0023	4.9	81
20240504_0033	4.7	9
20240504_0043	1	75
20240504_0053	0.2	60
20240504_0103	1	355
20240504_0113	0.1	233
20240504_0123	2.4	28
20240504_0133	2.3	72
20240504_0143	1.1	58
20240504_0153	0.1	111
20240504_0203	0.1	82
20240504_0213	2.5	147
20240504_0223	0.1	119
20240504_0233	1.1	38
20240504_0243	0.1	45
20240504_0253	0.1	83
20240504_0303	0.6	21
20240504_0313	3.8	342
20240504_0323	3.1	53
20240504_0333	0.1	34
20240504_0343	0.3	92
20240504_0353	4.8	45
20240504_0403	0.1	304
20240504_0413	0.1	3
20240504_0423	1.3	109
20240504_0433	2.5	101
20240504_0443	0.1	45
20240504_0453	7.8	154
20240504_0503	1	116
20240504_0513	0.3	310
20240504_0523	10.3	151
20240504_0533	2.1	139
20240504_0543	0.4	110
20240504_0553	10.2	61
20240504_0603	1.1	68
20240504_0613	2.3	38
20240504_0623	6.3	46
20240504_0633	1.9	295
20240504_0643	1.9	46
20240504_0653	0.4	248
20240504_0703	7	40
20240504_0713	2.9	39
20240504_0723	2.5	137
20240504_0733	3.8	36
20240504_0743	1.4	2
20240504_0753	0.4	134
20240504_0803	0.9	128
20240504_0813	0.5	101
20240504_0823	4.9	54
20240504_0833	1.1	215
20240504_0843	0.1	199
20240504_0853	0.8	122
20240504_0903	0.2	36
20240504_0913	0.1	75
20240504_0923	3.3	127
20240504_0933	0.3	75
20240504_0943	0.1	349
20240504_0953	2.5	25
20240504_1003	3.8	336
20240504_1013	10.1	51
20240504_1023	5.4	66
20240504_1033	0.8	53
20240504_1043	3.1	136
20240504_1053	1.7	7
20240504_1103	0.6	149
20240504_1113	0.1	100
20240504_1123	0.8	60
20240504_1133	1.8	62
20240504_1143	5.4	37
20240504_1153	0.8	63

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240504_1203	0.1	268
20240504_1213	0.1	241
20240504_1223	2.7	56
20240504_1233	15.9	76
20240504_1243	3.4	5
20240504_1253	0.1	121
20240504_1303	0.8	52
20240504_1313	1.9	143
20240504_1323	1.2	263
20240504_1333	0.1	31
20240504_1343	0.2	139
20240504_1353	0.1	330
20240504_1403	0.2	140
20240504_1413	0.1	151
20240504_1423	0.1	20
20240504_1433	0.1	232
20240504_1443	0.1	150
20240504_1453	0.1	352
20240504_1503	0.1	328
20240504_1513	0.1	284
20240504_1523	0.1	35
20240504_1533	0.1	99
20240504_1543	0.1	59
20240504_1553	0.1	248
20240504_1603	0.1	72
20240504_1613	0.1	59
20240504_1623	0.1	341
20240504_1633	0.1	19
20240504_1643	0.1	54
20240504_1653	0.1	143
20240504_1703	0.1	141
20240504_1713	0.1	141
20240504_1723	0.1	150
20240504_1733	0.1	346
20240504_1743	0.1	242
20240504_1753	0.6	259
20240504_1803	0.1	271
20240504_1813	0.1	334
20240504_1823	0.2	128
20240504_1833	0.1	139
20240504_1843	0.1	172
20240504_1853	0.3	263
20240504_1903	0.1	210
20240504_1913	0.1	184
20240504_1923	0.1	169
20240504_1933	0.1	82
20240504_1943	0.1	109
20240504_1953	0.1	151
20240504_2003	0.1	143
20240504_2013	0.1	73
20240504_2023	0.1	73
20240504_2033	0.1	112
20240504_2043	0.6	73
20240504_2053	0.1	20
20240504_2103	0.1	178
20240504_2113	0.1	300
20240504_2123	0.1	58
20240504_2133	0.1	37
20240504_2143	0.1	272
20240504_2153	0.1	70
20240504_2203	0.1	3
20240504_2213	0.2	126
20240504_2223	0.1	323
20240504_2233	0.1	113
20240504_2243	0.1	61
20240504_2253	0.1	61
20240504_2303	0.1	56
20240504_2313	0.1	99
20240504_2323	0.1	20
20240504_2333	0.1	316
20240504_2343	0.1	5
20240504_2353	0.1	5

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240505_0003	0.1	5
20240505_0013	0.1	87
20240505_0023	0.1	87
20240505_0033	0.1	88
20240505_0043	0.1	88
20240505_0053	0.1	88
20240505_0103	0.1	304
20240505_0113	0.1	323
20240505_0123	0.1	322
20240505_0133	0.1	27
20240505_0143	0.1	320
20240505_0153	0.1	346
20240505_0203	0.1	346
20240505_0213	0.1	73
20240505_0223	0.1	73
20240505_0233	0.1	73
20240505_0243	0.1	73
20240505_0253	0.1	88
20240505_0303	0.1	245
20240505_0313	0.1	144
20240505_0323	0.1	144
20240505_0333	0.1	245
20240505_0343	0.1	67
20240505_0353	0.1	67
20240505_0403	0.1	67
20240505_0413	0.1	128
20240505_0423	0.1	32
20240505_0433	0.1	126
20240505_0443	0.1	124
20240505_0453	4.2	90
20240505_0503	0.1	48
20240505_0513	0.1	233
20240505_0523	0.1	264
20240505_0533	0.1	99
20240505_0543	0.1	320
20240505_0553	0.1	329
20240505_0603	0.1	133
20240505_0613	0.1	277
20240505_0623	0.5	113
20240505_0633	0.1	46
20240505_0643	0.1	135
20240505_0653	0.1	304
20240505_0703	0.1	270
20240505_0713	0.1	233
20240505_0723	0.1	68
20240505_0733	0.1	152
20240505_0743	0.1	118
20240505_0753	0.1	114
20240505_0803	0.2	152
20240505_0813	0.1	332
20240505_0823	0.1	107
20240505_0833	0.1	316
20240505_0843	0.1	4
20240505_0853	0.1	113
20240505_0903	0.1	335
20240505_0913	0.1	292
20240505_0923	0.6	32
20240505_0933	0.1	133
20240505_0943	0.3	293
20240505_0953	0.1	132
20240505_1003	0.1	216
20240505_1013	0.1	278
20240505_1023	0.1	8
20240505_1033	0.1	38
20240505_1043	0.1	351
20240505_1053	0.8	146
20240505_1103	0.2	170
20240505_1113	2.2	133
20240505_1123	2.4	82
20240505_1133	3.2	101
20240505_1143	2	111
20240505_1153	0.8	167

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240505_1203	0.1	217
20240505_1213	0.1	17
20240505_1223	0.9	347
20240505_1233	1.4	134
20240505_1243	2.1	142
20240505_1253	0.1	334
20240505_1303	0.1	109
20240505_1313	0.1	120
20240505_1323	0.1	36
20240505_1333	0.1	72
20240505_1343	2.9	159
20240505_1353	0.1	295
20240505_1403	0.4	34
20240505_1413	0.1	43
20240505_1423	0.1	37
20240505_1433	0.1	233
20240505_1443	0.1	10
20240505_1453	0.1	183
20240505_1503	0.1	34
20240505_1513	0.4	113
20240505_1523	0.1	20
20240505_1533	0.2	277
20240505_1543	0.1	5
20240505_1553	0.4	87
20240505_1603	0.4	113
20240505_1613	0.1	52
20240505_1623	1.2	111
20240505_1633	0.1	130
20240505_1643	0.1	42
20240505_1653	1.5	91
20240505_1703	0.1	138
20240505_1713	0.1	121
20240505_1723	0.1	124
20240505_1733	0.1	96
20240505_1743	0.1	83
20240505_1753	0.4	132
20240505_1803	2	133
20240505_1813	0.1	114
20240505_1823	0.4	49
20240505_1833	0.1	74
20240505_1843	0.1	214
20240505_1853	0.1	101
20240505_1903	0.1	168
20240505_1913	0.1	109
20240505_1923	0.1	57
20240505_1933	0.1	76
20240505_1943	0.1	60
20240505_1953	0.1	49
20240505_2003	0.1	297
20240505_2013	0.1	0
20240505_2023	0.5	55
20240505_2033	0.1	56
20240505_2043	0.7	67
20240505_2053	0.1	106
20240505_2103	0.1	10
20240505_2113	0.1	62
20240505_2123	0.3	115
20240505_2133	0.1	102
20240505_2143	0.1	112
20240505_2153	0.1	232
20240505_2203	0.1	282
20240505_2213	0.1	238
20240505_2223	0.1	233
20240505_2233	0.1	200
20240505_2243	0.1	145
20240505_2253	0.1	147
20240505_2303	0.1	145
20240505_2313	0.1	146
20240505_2323	0.1	146
20240505_2333	0.1	146
20240505_2343	0.1	142
20240505_2353	0.1	170

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240506_0003	0.1	169
20240506_0013	0.1	146
20240506_0023	0.1	145
20240506_0033	0.1	145
20240506_0043	0.1	180
20240506_0053	0.1	180
20240506_0103	0.1	146
20240506_0113	0.1	141
20240506_0123	0.1	143
20240506_0133	0.1	5
20240506_0143	0.1	202
20240506_0153	0.1	141
20240506_0203	0.1	141
20240506_0213	0.1	141
20240506_0223	0.1	141
20240506_0233	0.1	49
20240506_0243	0.1	49
20240506_0253	0.1	49
20240506_0303	0.1	36
20240506_0313	0.1	36
20240506_0323	0.1	36
20240506_0333	0.1	38
20240506_0343	0.1	38
20240506_0353	0.1	38
20240506_0403	0.1	38
20240506_0413	0.1	38
20240506_0423	0.1	38
20240506_0433	0.1	38
20240506_0443	0.1	38
20240506_0453	0.1	38
20240506_0503	0.1	38
20240506_0513	0.1	38
20240506_0523	0.1	32
20240506_0533	0.1	32
20240506_0543	0.1	32
20240506_0553	0.1	10
20240506_0603	0.1	10
20240506_0613	0.1	10
20240506_0623	0.1	10
20240506_0633	0.1	10
20240506_0643	0.1	10
20240506_0653	0.1	19
20240506_0703	0.1	264
20240506_0713	0.1	235
20240506_0723	0.1	102
20240506_0733	0.1	102
20240506_0743	0.1	133
20240506_0753	0.1	131
20240506_0803	0.1	275
20240506_0813	0.1	199
20240506_0823	0.1	139
20240506_0833	0.1	198
20240506_0843	0.1	142
20240506_0853	0.1	151
20240506_0903	0.1	273
20240506_0913	0.1	194
20240506_0923	0.1	159
20240506_0933	0.1	135
20240506_0943	0.1	284
20240506_0953	0.1	242
20240506_1003	0.1	206
20240506_1013	0.1	206
20240506_1023	0.5	277
20240506_1033	0.5	146
20240506_1043	0.1	226
20240506_1053	0.9	151
20240506_1103	0.1	155
20240506_1113	0.1	153
20240506_1123	2.2	163
20240506_1133	0.1	235
20240506_1143	0.5	274
20240506_1153	0.1	130

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240506_1203	0.9	139
20240506_1213	0.1	276
20240506_1223	0.2	146
20240506_1233	0.1	139
20240506_1243	0.2	156
20240506_1253	0.1	215
20240506_1303	0.2	84
20240506_1313	0.7	156
20240506_1323	0.3	265
20240506_1333	0.1	207
20240506_1343	0.2	158
20240506_1353	0.3	149
20240506_1403	0.1	157
20240506_1413	0.1	137
20240506_1423	0.1	248
20240506_1433	0.1	234
20240506_1443	0.3	149
20240506_1453	0.3	140
20240506_1503	0.1	146
20240506_1513	1.3	140
20240506_1523	0.1	210
20240506_1533	0.1	217
20240506_1543	0.1	136
20240506_1553	0.1	322
20240506_1603	0.1	118
20240506_1613	0.1	246
20240506_1623	0.1	47
20240506_1633	0.1	117
20240506_1643	0.7	124
20240506_1653	1.2	127
20240506_1703	0.1	246
20240506_1713	0.1	32
20240506_1723	0.1	61
20240506_1733	0.6	62
20240506_1743	0.1	97
20240506_1753	0.1	55
20240506_1803	0.1	91
20240506_1813	0.1	50
20240506_1823	0.1	80
20240506_1833	0.1	70
20240506_1843	0.2	38
20240506_1853	0.1	34
20240506_1903	0.1	101
20240506_1913	0.1	327
20240506_1923	0.1	330
20240506_1933	0.1	65
20240506_1943	0.1	91
20240506_1953	0.1	91
20240506_2003	0.1	91
20240506_2013	0.1	91
20240506_2023	0.1	127
20240506_2033	0.1	106
20240506_2043	0.1	106
20240506_2053	0.1	106
20240506_2103	0.1	106
20240506_2113	0.1	106
20240506_2123	0.1	102
20240506_2133	0.1	103
20240506_2143	0.1	103
20240506_2153	0.1	185
20240506_2203	0.1	135
20240506_2213	0.1	145
20240506_2223	0.2	160
20240506_2233	0.1	190
20240506_2243	0.1	141
20240506_2253	0.1	19
20240506_2303	0.1	153
20240506_2313	0.1	151
20240506_2323	0.2	141
20240506_2333	0.1	82
20240506_2343	0.1	155
20240506_2353	0.1	160

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240507_0003	0.1	102
20240507_0013	0.1	162
20240507_0023	0.1	98
20240507_0033	0.1	139
20240507_0043	0.1	68
20240507_0053	0.1	59
20240507_0103	0.1	71
20240507_0113	0.1	64
20240507_0123	0.1	292
20240507_0133	0.1	49
20240507_0143	0.1	66
20240507_0153	0.1	202
20240507_0203	0.1	96
20240507_0213	0.1	96
20240507_0223	0.1	51
20240507_0233	0.1	1
20240507_0243	0.1	181
20240507_0253	0.1	118
20240507_0303	0.1	122
20240507_0313	0.1	90
20240507_0323	0.1	292
20240507_0333	0.1	84
20240507_0343	0.1	123
20240507_0353	0.1	123
20240507_0403	0.1	74
20240507_0413	0.1	74
20240507_0423	0.1	74
20240507_0433	0.1	71
20240507_0443	0.1	20
20240507_0453	0.1	14
20240507_0503	0.1	14
20240507_0513	0.1	78
20240507_0523	0.1	76
20240507_0533	0.1	76
20240507_0543	0.1	76
20240507_0553	0.1	76
20240507_0603	0.1	76
20240507_0613	0.1	76
20240507_0623	0.1	76
20240507_0633	0.1	76
20240507_0643	0.1	76
20240507_0653	0.1	76
20240507_0703	0.1	104
20240507_0713	0.1	133
20240507_0723	0.1	118
20240507_0733	0.1	154
20240507_0743	0.1	154
20240507_0753	0.1	113
20240507_0803	0.1	143
20240507_0813	0.1	169
20240507_0823	0.1	151
20240507_0833	0.1	209
20240507_0843	0.1	138
20240507_0853	0.1	225
20240507_0903	0.1	148
20240507_0913	0.1	206
20240507_0923	0.1	150
20240507_0933	0.3	240
20240507_0943	0.1	280
20240507_0953	0.1	298
20240507_1003	0.1	6
20240507_1013	0.1	158
20240507_1023	0.2	108
20240507_1033	0.1	121
20240507_1043	0.1	244
20240507_1053	0.1	252
20240507_1103	0.2	315
20240507_1113	0.3	313
20240507_1123	0.1	273
20240507_1133	0.1	221
20240507_1143	0.1	134
20240507_1153	0.6	109

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240507_1203	0.6	144
20240507_1213	2.8	136
20240507_1223	1	117
20240507_1233	1.8	115
20240507_1243	0.5	127
20240507_1253	1.3	137
20240507_1303	1.9	17
20240507_1313	1.6	134
20240507_1323	0.2	133
20240507_1333	1.7	132
20240507_1343	0.2	146
20240507_1353	0.3	152
20240507_1403	1.4	56
20240507_1413	0.8	165
20240507_1423	0.6	124
20240507_1433	1.2	153
20240507_1443	0.6	28
20240507_1453	0.1	149
20240507_1503	0.2	99
20240507_1513	0.1	180
20240507_1523	2.3	39
20240507_1533	1.8	30
20240507_1543	4.3	168
20240507_1553	1.1	46
20240507_1603	1.8	322
20240507_1613	0.6	-1
20240507_1623	5.7	30
20240507_1633	0.4	12
20240507_1643	3	99
20240507_1653	2.8	11
20240507_1703	2.8	20
20240507_1713	0.9	18
20240507_1723	0.3	59
20240507_1733	0.6	97
20240507_1743	2.8	165
20240507_1753	1.7	32
20240507_1803	0.1	32
20240507_1813	1	62
20240507_1823	0.3	322
20240507_1833	0.1	123
20240507_1843	0.1	34
20240507_1853	1.4	104
20240507_1903	0.4	120
20240507_1913	0.2	101
20240507_1923	0.3	49
20240507_1933	0.3	316
20240507_1943	0.5	45
20240507_1953	0.1	344
20240507_2003	0.1	48
20240507_2013	0.1	5
20240507_2023	0.2	36
20240507_2033	0.1	329
20240507_2043	0.2	41
20240507_2053	0.1	174
20240507_2103	1.3	127
20240507_2113	0.1	195
20240507_2123	0.1	328
20240507_2133	0.1	53
20240507_2143	0.1	96
20240507_2153	0.1	122
20240507_2203	0.1	107
20240507_2213	0.1	60
20240507_2223	0.3	114
20240507_2233	0.8	135
20240507_2243	0.1	315
20240507_2253	0.1	130
20240507_2303	0.1	88
20240507_2313	0.4	39
20240507_2323	0.1	49
20240507_2333	0.5	28
20240507_2343	0.1	252
20240507_2353	0.2	167

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240508_0003	0.2	104
20240508_0013	0.9	77
20240508_0023	0.5	90
20240508_0033	0.1	165
20240508_0043	1.2	344
20240508_0053	0.1	111
20240508_0103	0.4	135
20240508_0113	0.1	85
20240508_0123	0.1	129
20240508_0133	0.2	75
20240508_0143	0.3	116
20240508_0153	0.1	306
20240508_0203	0.1	50
20240508_0213	0.1	158
20240508_0223	0.1	27
20240508_0233	0.1	102
20240508_0243	0.1	116
20240508_0253	0.1	280
20240508_0303	0.1	145
20240508_0313	0.1	121
20240508_0323	0.6	152
20240508_0333	0.1	115
20240508_0343	0.1	108
20240508_0353	0.1	111
20240508_0403	0.1	34
20240508_0413	0.1	26
20240508_0423	0.1	343
20240508_0433	0.1	145
20240508_0443	0.1	140
20240508_0453	0.1	224
20240508_0503	0.1	110
20240508_0513	0.1	178
20240508_0523	0.1	66
20240508_0533	0.2	57
20240508_0543	0.1	110
20240508_0553	1.1	173
20240508_0603	0.1	341
20240508_0613	0.1	338
20240508_0623	0.1	105
20240508_0633	0.1	123
20240508_0643	0.1	157
20240508_0653	0.1	127
20240508_0703	0.2	143
20240508_0713	0.4	1
20240508_0723	0.1	51
20240508_0733	0.1	80
20240508_0743	0.1	13
20240508_0753	0.4	7
20240508_0803	0.1	316
20240508_0813	0.1	144
20240508_0823	0.1	209
20240508_0833	0.1	172
20240508_0843	0.1	277
20240508_0853	0.1	71
20240508_0903	0.1	131
20240508_0913	0.1	78
20240508_0923	0.1	136
20240508_0933	0.1	156
20240508_0943	0.1	156
20240508_0953	0.1	55
20240508_1003	0.1	342
20240508_1013	0.1	82
20240508_1023	0.1	271
20240508_1033	0.9	332
20240508_1043	0.1	2
20240508_1053	0.1	292
20240508_1103	0.1	246
20240508_1113	0.1	276
20240508_1123	0.1	249
20240508_1133	0.1	308
20240508_1143	0.1	195
20240508_1153	0.1	68

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240508_1203	0.8	58
20240508_1213	1	159
20240508_1223	0.8	322
20240508_1233	0.7	61
20240508_1243	0.1	-1
20240508_1253	0.1	134
20240508_1303	1.3	154
20240508_1313	0.2	315
20240508_1323	0.1	203
20240508_1333	0.6	124
20240508_1343	0.2	61
20240508_1353	0.1	18
20240508_1403	3.4	137
20240508_1413	0.4	347
20240508_1423	0.4	69
20240508_1433	0.1	279
20240508_1443	1.3	116
20240508_1453	0.4	98
20240508_1503	0.2	119
20240508_1513	0.1	323
20240508_1523	0.1	96
20240508_1533	0.8	101
20240508_1543	1.9	115
20240508_1553	0.1	51
20240508_1603	0.1	253
20240508_1613	0.6	340
20240508_1623	0.1	224
20240508_1633	3.2	135
20240508_1643	0.3	139
20240508_1653	3.7	56
20240508_1703	0.6	8
20240508_1713	0.3	73
20240508_1723	0.7	32
20240508_1733	0.6	5
20240508_1743	0.8	105
20240508_1753	1.3	319
20240508_1803	0.1	4
20240508_1813	0.2	2
20240508_1823	0.2	70
20240508_1833	0.1	256
20240508_1843	0.1	117
20240508_1853	1.7	26
20240508_1903	1.9	53
20240508_1913	0.1	136
20240508_1923	0.2	17
20240508_1933	0.2	328
20240508_1943	0.1	178
20240508_1953	0.9	348
20240508_2003	0.1	342
20240508_2013	0.1	18
20240508_2023	0.3	47
20240508_2033	0.1	194
20240508_2043	0.4	143
20240508_2053	0.4	134
20240508_2103	0.1	148
20240508_2113	0.1	232
20240508_2123	0.1	98
20240508_2133	0.1	96
20240508_2143	0.1	253
20240508_2153	0.1	200
20240508_2203	0.1	81
20240508_2213	0.1	81
20240508_2223	0.1	84
20240508_2233	0.1	83
20240508_2243	0.1	107
20240508_2253	0.1	105
20240508_2303	0.1	103
20240508_2313	0.1	7
20240508_2323	0.1	126
20240508_2333	0.1	138
20240508_2343	0.1	282
20240508_2353	0.1	116

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240509_0003	0.1	272
20240509_0013	0.3	284
20240509_0023	0.1	117
20240509_0033	0.1	153
20240509_0043	0.1	124
20240509_0053	0.1	252
20240509_0103	0.1	159
20240509_0113	0.1	111
20240509_0123	0.1	224
20240509_0133	0.7	16
20240509_0143	0.3	180
20240509_0153	0.1	164
20240509_0203	0.1	59
20240509_0213	0.1	30
20240509_0223	0.1	241
20240509_0233	0.2	57
20240509_0243	2.8	119
20240509_0253	0.1	107
20240509_0303	0.1	168
20240509_0313	0.2	81
20240509_0323	0.5	19
20240509_0333	1.2	57
20240509_0343	1.6	48
20240509_0353	0.1	47
20240509_0403	3.1	59
20240509_0413	0.2	113
20240509_0423	3.2	63
20240509_0433	3.8	62
20240509_0443	0.6	105
20240509_0453	2.8	26
20240509_0503	0.2	280
20240509_0513	0.3	110
20240509_0523	1.9	105
20240509_0533	0.7	152
20240509_0543	0.4	104
20240509_0553	1.8	94
20240509_0603	0.2	350
20240509_0613	1.7	128
20240509_0623	0.4	313
20240509_0633	0.2	81
20240509_0643	1.1	30
20240509_0653	1.4	16
20240509_0703	0.1	347
20240509_0713	0.7	74
20240509_0723	0.1	193
20240509_0733	0.6	132
20240509_0743	1.5	28
20240509_0753	5.5	48
20240509_0803	1.7	138
20240509_0813	0.5	65
20240509_0823	0.6	192
20240509_0833	0.4	147
20240509_0843	1.1	10
20240509_0853	0.1	318
20240509_0903	1.7	354
20240509_0913	0.1	28
20240509_0923	0.7	110
20240509_0933	4.6	324
20240509_0943	0.1	350
20240509_0953	1.2	118
20240509_1003	1.9	17
20240509_1013	0.2	115
20240509_1023	0.3	119
20240509_1033	0.8	114
20240509_1043	0.1	145
20240509_1053	2.7	50
20240509_1103	0.4	51
20240509_1113	1.6	319
20240509_1123	0.9	26
20240509_1133	0.2	65
20240509_1143	0.1	6
20240509_1153	0.3	254

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240509_1203	3.6	351
20240509_1213	0.1	327
20240509_1223	2.6	122
20240509_1233	0.8	44
20240509_1243	0.9	54
20240509_1253	0.4	101
20240509_1303	0.1	156
20240509_1313	1.3	135
20240509_1323	3.9	113
20240509_1333	2.1	345
20240509_1343	2.2	148
20240509_1353	1.1	60
20240509_1403	0.4	353
20240509_1413	0.8	321
20240509_1423	0.1	40
20240509_1433	1.2	34
20240509_1443	0.8	309
20240509_1453	0.5	139
20240509_1503	2	169
20240509_1513	0.5	28
20240509_1523	1.4	95
20240509_1533	0.5	341
20240509_1543	4.6	334
20240509_1553	1.5	323
20240509_1603	4.2	304
20240509_1613	1.5	66
20240509_1623	2.1	346
20240509_1633	3.9	9
20240509_1643	1.8	60
20240509_1653	0.1	119
20240509_1703	0.8	24
20240509_1713	1.8	10
20240509_1723	0.8	174
20240509_1733	0.1	318
20240509_1743	0.7	131
20240509_1753	6.2	48
20240509_1803	0.5	116
20240509_1813	2.5	73
20240509_1823	0.7	51
20240509_1833	0.9	81
20240509_1843	0.6	87
20240509_1853	0.1	326
20240509_1903	0.3	349
20240509_1913	0.1	213
20240509_1923	0.2	179
20240509_1933	1	2
20240509_1943	0.4	93
20240509_1953	0.1	174
20240509_2003	2.1	127
20240509_2013	2.1	129
20240509_2023	0.5	83
20240509_2033	1.7	162
20240509_2043	0.1	108
20240509_2053	1.7	91
20240509_2103	2.8	45
20240509_2113	2.3	23
20240509_2123	0.2	93
20240509_2133	1.6	40
20240509_2143	2.3	135
20240509_2153	0.4	15
20240509_2203	4.4	41
20240509_2213	0.1	192
20240509_2223	0.5	120
20240509_2233	1.1	91
20240509_2243	0.3	293
20240509_2253	0.4	293
20240509_2303	2.2	111
20240509_2313	1.9	45
20240509_2323	0.1	256
20240509_2333	0.5	322
20240509_2343	2.6	123
20240509_2353	0.3	292

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240510_0003	0.1	10
20240510_0013	0.2	38
20240510_0023	0.3	255
20240510_0033	0.1	63
20240510_0043	0.3	321
20240510_0053	0.1	298
20240510_0103	0.2	208
20240510_0113	0.2	182
20240510_0123	0.2	302
20240510_0133	0.1	64
20240510_0143	0.1	345
20240510_0153	0.4	60
20240510_0203	0.5	100
20240510_0213	0.1	172
20240510_0223	1.2	122
20240510_0233	3.6	58
20240510_0243	0.1	77
20240510_0253	0.1	262
20240510_0303	0.1	94
20240510_0313	0.1	304
20240510_0323	0.1	330
20240510_0333	0.6	82
20240510_0343	0.2	203
20240510_0353	2.9	40
20240510_0403	1.5	10
20240510_0413	1.2	86
20240510_0423	0.1	151
20240510_0433	0.7	90
20240510_0443	1.7	48
20240510_0453	2.2	351
20240510_0503	0.1	125
20240510_0513	0.6	27
20240510_0523	1.5	166
20240510_0533	1	9
20240510_0543	1	63
20240510_0553	0.1	185
20240510_0603	0.1	347
20240510_0613	0.2	204
20240510_0623	0.1	224
20240510_0633	0.1	351
20240510_0643	1	239
20240510_0653	0.2	182
20240510_0703	2.2	331
20240510_0713	0.1	19
20240510_0723	0.1	297
20240510_0733	0.9	37
20240510_0743	1.4	289
20240510_0753	0.7	347
20240510_0803	1.9	166
20240510_0813	0.5	107
20240510_0823	0.3	70
20240510_0833	0.1	8
20240510_0843	1.7	41
20240510_0853	1.1	340
20240510_0903	0.1	107
20240510_0913	0.8	58
20240510_0923	2.3	341
20240510_0933	0.6	295
20240510_0943	6.7	312
20240510_0953	1.3	103
20240510_1003	1.9	40
20240510_1013	0.1	334
20240510_1023	4	331
20240510_1033	1.7	302
20240510_1043	0.1	332
20240510_1053	1.3	78
20240510_1103	1.1	42
20240510_1113	0.5	9
20240510_1123	0.1	79
20240510_1133	1.5	344
20240510_1143	1	70
20240510_1153	0.8	302

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240510_1203	1	355
20240510_1213	0.7	49
20240510_1223	0.2	15
20240510_1233	0.1	344
20240510_1243	0.1	278
20240510_1253	0.1	120
20240510_1303	0.1	28
20240510_1313	0.3	295
20240510_1323	0.1	59
20240510_1333	0.8	79
20240510_1343	0.1	86
20240510_1353	0.1	13
20240510_1403	1.1	127
20240510_1413	0.3	23
20240510_1423	1.2	152
20240510_1433	0.1	293
20240510_1443	0.3	315
20240510_1453	1.3	281
20240510_1503	0.1	178
20240510_1513	0.2	3
20240510_1523	1.9	156
20240510_1533	2.9	57
20240510_1543	0.2	27
20240510_1553	1.2	160
20240510_1603	1.5	304
20240510_1613	1.8	66
20240510_1623	3	73
20240510_1633	0.3	341
20240510_1643	1.1	43
20240510_1653	0.1	341
20240510_1703	4.1	1
20240510_1713	1.5	66
20240510_1723	0.2	17
20240510_1733	3.6	28
20240510_1743	0.1	100
20240510_1753	0.2	83
20240510_1803	0.6	118
20240510_1813	0.1	162
20240510_1823	2.6	126
20240510_1833	0.3	78
20240510_1843	3.3	70
20240510_1853	1	110
20240510_1903	1.1	41
20240510_1913	0.4	134
20240510_1923	0.5	333
20240510_1933	2.4	172
20240510_1943	2.9	143
20240510_1953	1.1	182
20240510_2003	0.6	37
20240510_2013	0.2	349
20240510_2023	0.1	333
20240510_2033	0.4	75
20240510_2043	0.2	41
20240510_2053	0.1	74
20240510_2103	0.5	108
20240510_2113	0.1	342
20240510_2123	0.1	39
20240510_2133	0.1	106
20240510_2143	0.1	91
20240510_2153	0.2	287
20240510_2203	0.4	25
20240510_2213	0.4	351
20240510_2223	0.6	297
20240510_2233	0.1	106
20240510_2243	0.1	268
20240510_2253	0.2	317
20240510_2303	0.2	107
20240510_2313	0.1	83
20240510_2323	0.1	114
20240510_2333	0.1	168
20240510_2343	0.3	112
20240510_2353	0.1	92

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240511_0003	0.1	92
20240511_0013	0.1	116
20240511_0023	0.1	100
20240511_0033	0.1	174
20240511_0043	0.1	115
20240511_0053	0.1	130
20240511_0103	1.7	152
20240511_0113	0.5	129
20240511_0123	0.2	60
20240511_0133	0.9	117
20240511_0143	0.1	94
20240511_0153	0.1	97
20240511_0203	0.1	123
20240511_0213	3.2	42
20240511_0223	2.7	46
20240511_0233	1.6	141
20240511_0243	0.1	108
20240511_0253	0.2	238
20240511_0303	0.1	81
20240511_0313	0.1	196
20240511_0323	0.2	144
20240511_0333	0.1	153
20240511_0343	0.1	46
20240511_0353	0.3	310
20240511_0403	0.2	156
20240511_0413	1.6	13
20240511_0423	0.7	40
20240511_0433	0.6	134
20240511_0443	0.2	149
20240511_0453	0.1	175
20240511_0503	0.2	237
20240511_0513	0.2	129
20240511_0523	0.1	274
20240511_0533	0.1	64
20240511_0543	0.1	287
20240511_0553	0.1	125
20240511_0603	0.1	95
20240511_0613	0.1	145
20240511_0623	0.5	94
20240511_0633	0.1	115
20240511_0643	0.1	190
20240511_0653	0.9	339
20240511_0703	1.1	150
20240511_0713	0.1	236
20240511_0723	0.1	238
20240511_0733	0.5	154
20240511_0743	0.2	349
20240511_0753	0.1	185
20240511_0803	0.9	142
20240511_0813	0.2	160
20240511_0823	2.5	12
20240511_0833	1.7	43
20240511_0843	0.1	3
20240511_0853	0.1	82
20240511_0903	1	297
20240511_0913	0.1	339
20240511_0923	0.7	50
20240511_0933	0.2	3
20240511_0943	0.4	43
20240511_0953	1.2	150
20240511_1003	0.1	217
20240511_1013	2.5	170
20240511_1023	0.3	180
20240511_1033	0.1	25
20240511_1043	0.1	17
20240511_1053	0.4	105
20240511_1103	0.6	137
20240511_1113	5.6	136
20240511_1123	1.1	66
20240511_1133	0.1	127
20240511_1143	0.4	149
20240511_1153	1.5	55

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240511_1203	0.5	332
20240511_1213	0.4	350
20240511_1223	0.9	332
20240511_1233	1.1	137
20240511_1243	1.8	46
20240511_1253	0.3	80
20240511_1303	1.5	62
20240511_1313	0.1	271
20240511_1323	0.4	16
20240511_1333	0.2	65
20240511_1343	0.3	7
20240511_1353	0.2	195
20240511_1403	1	104
20240511_1413	1	68
20240511_1423	2.1	11
20240511_1433	0.4	4
20240511_1443	1.4	162
20240511_1453	1.8	27
20240511_1503	0.6	167
20240511_1513	6.4	44
20240511_1523	3	23
20240511_1533	0.1	113
20240511_1543	4	38
20240511_1553	0.2	103
20240511_1603	0.3	334
20240511_1613	0.4	300
20240511_1623	0.7	323
20240511_1633	1.8	49
20240511_1643	0.8	213
20240511_1653	2.9	52
20240511_1703	2	39
20240511_1713	0.7	82
20240511_1723	0.1	347
20240511_1733	0.5	155
20240511_1743	0.8	59
20240511_1753	0.1	120
20240511_1803	0.3	285
20240511_1813	0.1	64
20240511_1823	1	5
20240511_1833	1.1	91
20240511_1843	2	147
20240511_1853	2.4	163
20240511_1903	0.7	136
20240511_1913	0.2	93
20240511_1923	0.1	22
20240511_1933	0.1	40
20240511_1943	0.6	159
20240511_1953	0.7	113
20240511_2003	0.1	129
20240511_2013	1.2	146
20240511_2023	3.8	157
20240511_2033	1.4	141
20240511_2043	0.1	129
20240511_2053	0.1	186
20240511_2103	0.1	125
20240511_2113	0.1	116
20240511_2123	0.2	128
20240511_2133	0.2	54
20240511_2143	0.6	90
20240511_2153	0.3	79
20240511_2203	0.2	140
20240511_2213	0.1	142
20240511_2223	0.1	210
20240511_2233	1.9	341
20240511_2243	0.5	267
20240511_2253	0.1	60
20240511_2303	2.2	352
20240511_2313	0.3	8
20240511_2323	0.1	11
20240511_2333	0.2	338
20240511_2343	0.1	28
20240511_2353	1.5	141

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240512_0003	0.3	283
20240512_0013	0.1	334
20240512_0023	0.5	136
20240512_0033	0.7	141
20240512_0043	0.1	53
20240512_0053	0.1	76
20240512_0103	0.2	21
20240512_0113	0.1	114
20240512_0123	0.1	59
20240512_0133	0.1	159
20240512_0143	0.1	103
20240512_0153	0.1	108
20240512_0203	0.1	143
20240512_0213	0.1	322
20240512_0223	0.1	295
20240512_0233	0.1	153
20240512_0243	0.1	101
20240512_0253	0.1	340
20240512_0303	0.1	68
20240512_0313	0.1	103
20240512_0323	0.1	167
20240512_0333	0.1	80
20240512_0343	0.1	298
20240512_0353	0.1	141
20240512_0403	0.1	120
20240512_0413	0.1	166
20240512_0423	0.1	102
20240512_0433	0.1	175
20240512_0443	0.1	55
20240512_0453	0.1	4
20240512_0503	0.1	120
20240512_0513	0.1	135
20240512_0523	0.1	135
20240512_0533	0.1	135
20240512_0543	0.1	134
20240512_0553	0.1	134
20240512_0603	0.1	134
20240512_0613	0.1	222
20240512_0623	0.1	222
20240512_0633	0.1	222
20240512_0643	0.1	192
20240512_0653	0.1	20
20240512_0703	0.1	332
20240512_0713	0.1	65
20240512_0723	0.1	147
20240512_0733	0.1	151
20240512_0743	0.1	152
20240512_0753	0.1	152
20240512_0803	0.1	229
20240512_0813	0.1	277
20240512_0823	0.1	252
20240512_0833	0.1	216
20240512_0843	0.1	237
20240512_0853	0.1	231
20240512_0903	0.1	226
20240512_0913	0.1	209
20240512_0923	0.1	270
20240512_0933	0.1	148
20240512_0943	0.1	180
20240512_0953	0.1	159
20240512_1003	0.3	139
20240512_1013	0.1	291
20240512_1023	0.3	324
20240512_1033	0.1	327
20240512_1043	0.1	131
20240512_1053	0.2	261
20240512_1103	0.1	53
20240512_1113	0.1	62
20240512_1123	0.1	185
20240512_1133	0.1	226
20240512_1143	0.2	255
20240512_1153	0.1	160

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240512_1203	0.1	131
20240512_1213	0.1	34
20240512_1223	0.1	9
20240512_1233	0.1	324
20240512_1243	0.5	142
20240512_1253	2.3	314
20240512_1303	0.1	133
20240512_1313	0.1	256
20240512_1323	1.1	299
20240512_1333	0.1	125
20240512_1343	0.4	129
20240512_1353	0.6	43
20240512_1403	0.2	59
20240512_1413	0.2	133
20240512_1423	0.1	68
20240512_1433	1.6	39
20240512_1443	2.7	83
20240512_1453	0.6	88
20240512_1503	0.1	333
20240512_1513	0.1	326
20240512_1523	0.4	343
20240512_1533	0.1	159
20240512_1543	0.1	71
20240512_1553	0.1	147
20240512_1603	0.1	324
20240512_1613	0.1	78
20240512_1623	0.1	332
20240512_1633	0.1	305
20240512_1643	0.1	208
20240512_1653	0.1	293
20240512_1703	0.1	331
20240512_1713	0.1	148
20240512_1723	0.1	351
20240512_1733	0.1	259
20240512_1743	0.1	61
20240512_1753	0.1	133
20240512_1803	0.1	141
20240512_1813	0.1	148
20240512_1823	0.1	176
20240512_1833	0.1	195
20240512_1843	0.1	309
20240512_1853	0.1	52
20240512_1903	0.1	56
20240512_1913	0.1	57
20240512_1923	0.1	77
20240512_1933	0.1	89
20240512_1943	0.1	83
20240512_1953	0.1	125
20240512_2003	0.1	139
20240512_2013	0.1	145
20240512_2023	0.1	144
20240512_2033	0.1	94
20240512_2043	0.1	291
20240512_2053	0.1	196
20240512_2103	0.1	105
20240512_2113	0.1	105
20240512_2123	0.1	352
20240512_2133	0.1	59
20240512_2143	0.1	59
20240512_2153	0.1	63
20240512_2203	0.1	64
20240512_2213	0.1	136
20240512_2223	0.1	96
20240512_2233	0.1	103
20240512_2243	0.1	103
20240512_2253	0.1	268
20240512_2303	0.1	77
20240512_2313	0.1	231
20240512_2323	0.1	338
20240512_2333	0.1	353
20240512_2343	0.1	34
20240512_2353	0.1	318

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240513_0003	0.1	133
20240513_0013	0.1	158
20240513_0023	0.1	94
20240513_0033	0.1	31
20240513_0043	0.1	40
20240513_0053	0.1	131
20240513_0103	0.1	48
20240513_0113	0.1	15
20240513_0123	0.1	31
20240513_0133	0.1	30
20240513_0143	0.1	11
20240513_0153	0.1	59
20240513_0203	0.1	332
20240513_0213	0.1	133
20240513_0223	0.1	229
20240513_0233	0.1	49
20240513_0243	0.1	61
20240513_0253	0.1	16
20240513_0303	0.1	81
20240513_0313	0.1	60
20240513_0323	0.1	55
20240513_0333	0.1	213
20240513_0343	0.1	207
20240513_0353	0.1	62
20240513_0403	0.1	156
20240513_0413	0.1	156
20240513_0423	0.1	56
20240513_0433	0.1	119
20240513_0443	0.1	95
20240513_0453	0.1	109
20240513_0503	0.1	341
20240513_0513	0.1	287
20240513_0523	0.1	300
20240513_0533	0.1	330
20240513_0543	0.1	54
20240513_0553	0.1	250
20240513_0603	0.1	236
20240513_0613	0.1	334
20240513_0623	0.1	246
20240513_0633	0.1	254
20240513_0643	0.1	71
20240513_0653	0.1	71
20240513_0703	0.1	220
20240513_0713	0.2	124
20240513_0723	0.1	159
20240513_0733	0.1	153
20240513_0743	0.1	222
20240513_0753	0.1	4
20240513_0803	0.8	39
20240513_0813	0.1	150
20240513_0823	0.1	163
20240513_0833	0.1	330
20240513_0843	1.1	340
20240513_0853	0.1	307
20240513_0903	0.1	289
20240513_0913	0.1	317
20240513_0923	0.1	19
20240513_0933	0.4	112
20240513_0943	0.3	101
20240513_0953	0.1	39
20240513_1003	0.1	150
20240513_1013	0.5	65
20240513_1023	0.3	28
20240513_1033	0.1	45
20240513_1043	0.1	208
20240513_1053	0.1	52
20240513_1103	0.2	293
20240513_1113	0.1	40
20240513_1123	0.6	31
20240513_1133	2.2	277
20240513_1143	1.2	341
20240513_1153	0.1	6

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240513_1203	0.1	77
20240513_1213	0.1	347
20240513_1223	0.1	275
20240513_1233	0.1	236
20240513_1243	0.9	22
20240513_1253	0.1	138
20240513_1303	0.1	147
20240513_1313	0.6	134
20240513_1323	0.8	155
20240513_1333	0.1	135
20240513_1343	0.4	10
20240513_1353	0.3	65
20240513_1403	0.1	286
20240513_1413	0.4	307
20240513_1423	0.1	162
20240513_1433	0.2	28
20240513_1443	3.7	78
20240513_1453	0.1	157
20240513_1503	0.1	242
20240513_1513	1.4	108
20240513_1523	2.6	348
20240513_1533	0.3	46
20240513_1543	0.3	121
20240513_1553	1.7	152
20240513_1603	0.2	77
20240513_1613	1.2	115
20240513_1623	0.2	135
20240513_1633	2.1	54
20240513_1643	1.2	28
20240513_1653	0.1	260
20240513_1703	1.1	345
20240513_1713	4	323
20240513_1723	2.8	5
20240513_1733	3.7	72
20240513_1743	4.7	29
20240513_1753	4.2	71
20240513_1803	0.3	316
20240513_1813	0.9	70
20240513_1823	0.1	81
20240513_1833	2.3	157
20240513_1843	1.2	138
20240513_1853	2.3	48
20240513_1903	1.5	54
20240513_1913	1	155
20240513_1923	2.4	146
20240513_1933	2.4	36
20240513_1943	0.9	36
20240513_1953	0.1	64
20240513_2003	1	66
20240513_2013	0.2	99
20240513_2023	1.8	30
20240513_2033	0.8	35
20240513_2043	4.6	94
20240513_2053	0.2	138
20240513_2103	2	40
20240513_2113	0.2	79
20240513_2123	3	16
20240513_2133	0.7	34
20240513_2143	0.5	182
20240513_2153	1.8	66
20240513_2203	1.6	70
20240513_2213	0.1	7
20240513_2223	0.2	75
20240513_2233	1.8	81
20240513_2243	1.9	139
20240513_2253	0.2	92
20240513_2303	0.2	70
20240513_2313	0.5	89
20240513_2323	0.2	2
20240513_2333	0.1	331
20240513_2343	4.1	114
20240513_2353	0.3	49

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240514_0003	0.1	260
20240514_0013	0.4	38
20240514_0023	0.5	288
20240514_0033	0.1	56
20240514_0043	2.3	72
20240514_0053	1.5	337
20240514_0103	0.3	113
20240514_0113	2.6	36
20240514_0123	1.7	37
20240514_0133	0.1	179
20240514_0143	0.9	18
20240514_0153	0.6	9
20240514_0203	0.1	353
20240514_0213	0.6	276
20240514_0223	0.1	133
20240514_0233	0.1	93
20240514_0243	0.2	28
20240514_0253	2.2	24
20240514_0303	0.1	160
20240514_0313	0.7	145
20240514_0323	0.1	41
20240514_0333	0.1	113
20240514_0343	0.6	138
20240514_0353	0.1	155
20240514_0403	0.3	327
20240514_0413	0.6	54
20240514_0423	0.5	67
20240514_0433	0.1	80
20240514_0443	0.3	68
20240514_0453	0.3	24
20240514_0503	0.6	130
20240514_0513	0.1	33
20240514_0523	0.8	326
20240514_0533	0.1	47
20240514_0543	0.2	91
20240514_0553	0.1	327
20240514_0603	0.1	158
20240514_0613	0.1	110
20240514_0623	0.1	47
20240514_0633	0.5	75
20240514_0643	0.6	144
20240514_0653	0.2	28
20240514_0703	0.1	105
20240514_0713	0.1	122
20240514_0723	0.2	113
20240514_0733	0.1	16
20240514_0743	0.4	54
20240514_0753	1.2	347
20240514_0803	0.1	232
20240514_0813	0.1	124
20240514_0823	1	55
20240514_0833	0.1	347
20240514_0843	0.2	56
20240514_0853	0.1	4
20240514_0903	1.5	57
20240514_0913	4.7	101
20240514_0923	0.1	221
20240514_0933	1.5	54
20240514_0943	0.1	30
20240514_0953	0.4	333
20240514_1003	1.7	297
20240514_1013	0.1	32
20240514_1023	2.1	331
20240514_1033	1.3	20
20240514_1043	0.5	45
20240514_1053	0.6	22
20240514_1103	0.1	83
20240514_1113	1.5	25
20240514_1123	0.1	159
20240514_1133	0.1	17
20240514_1143	1.6	44
20240514_1153	0.4	33

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240514_1203	0.3	91
20240514_1213	2.7	101
20240514_1223	0.1	107
20240514_1233	1.4	166
20240514_1243	0.3	126
20240514_1253	0.6	155
20240514_1303	0.4	224
20240514_1313	0.3	333
20240514_1323	0.2	145
20240514_1333	0.2	30
20240514_1343	2.9	130
20240514_1353	1.2	143
20240514_1403	0.5	350
20240514_1413	4.6	128
20240514_1423	1.2	149
20240514_1433	5.2	112
20240514_1443	1.3	352
20240514_1453	1.9	132
20240514_1503	0.3	20
20240514_1513	0.7	15
20240514_1523	0.2	152
20240514_1533	2.3	58
20240514_1543	0.2	242
20240514_1553	4	40
20240514_1603	1.3	274
20240514_1613	0.1	60
20240514_1623	0.9	33
20240514_1633	1.5	36
20240514_1643	0.1	178
20240514_1653	3.2	92
20240514_1703	1.4	111
20240514_1713	0.1	273
20240514_1723	1.9	157
20240514_1733	0.4	156
20240514_1743	0.1	214
20240514_1753	0.2	224
20240514_1803	1	99
20240514_1813	0.1	338
20240514_1823	0.8	2
20240514_1833	0.1	7
20240514_1843	0.1	134
20240514_1853	1	58
20240514_1903	0.1	327
20240514_1913	0.1	315
20240514_1923	0.3	294
20240514_1933	0.1	321
20240514_1943	0.8	354
20240514_1953	0.1	58
20240514_2003	0.1	93
20240514_2013	0.5	340
20240514_2023	0.5	18
20240514_2033	0.5	21
20240514_2043	0.1	7
20240514_2053	0.1	333
20240514_2103	0.6	7
20240514_2113	0.2	71
20240514_2123	0.7	333
20240514_2133	1.2	120
20240514_2143	0.1	61
20240514_2153	0.1	140
20240514_2203	0.1	77
20240514_2213	0.1	308
20240514_2223	0.1	352
20240514_2233	0.1	349
20240514_2243	0.6	5
20240514_2253	0.1	343
20240514_2303	1	326
20240514_2313	0.6	200
20240514_2323	0.3	111
20240514_2333	0.1	105
20240514_2343	0.3	113
20240514_2353	0.3	143

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240515_0003	0.1	153
20240515_0013	0.3	10
20240515_0023	2.7	66
20240515_0033	0.1	295
20240515_0043	0.1	101
20240515_0053	0.1	5
20240515_0103	0.2	295
20240515_0113	0.1	323
20240515_0123	0.2	112
20240515_0133	0.1	145
20240515_0143	0.2	144
20240515_0153	0.2	158
20240515_0203	0.1	73
20240515_0213	0.1	242
20240515_0223	0.1	350
20240515_0233	0.1	163
20240515_0243	0.1	103
20240515_0253	0.1	255
20240515_0303	0.1	176
20240515_0313	0.1	126
20240515_0323	0.1	124
20240515_0333	0.1	107
20240515_0343	0.1	233
20240515_0353	0.1	74
20240515_0403	0.1	184
20240515_0413	0.1	172
20240515_0423	0.1	237
20240515_0433	0.1	95
20240515_0443	0.1	132
20240515_0453	0.1	173
20240515_0503	0.1	110
20240515_0513	0.1	109
20240515_0523	0.1	157
20240515_0533	0.1	158
20240515_0543	0.1	216
20240515_0553	0.1	142
20240515_0603	0.1	142
20240515_0613	0.1	182
20240515_0623	0.1	183
20240515_0633	0.1	183
20240515_0643	0.1	137
20240515_0653	0.1	151
20240515_0703	0.1	138
20240515_0713	0.1	125
20240515_0723	0.1	99
20240515_0733	0.1	128
20240515_0743	0.1	136
20240515_0753	0.1	107
20240515_0803	0.1	151
20240515_0813	0.1	-1
20240515_0823	0.3	153
20240515_0833	0.2	26
20240515_0843	0.3	162
20240515_0853	0.1	70
20240515_0903	0.1	290
20240515_0913	0.1	206
20240515_0923	0.1	151
20240515_0933	1.1	133
20240515_0943	0.1	161
20240515_0953	0.3	331
20240515_1003	0.1	11
20240515_1013	0.2	111
20240515_1023	0.6	182
20240515_1033	1.9	128
20240515_1043	0.2	253
20240515_1053	1.6	76
20240515_1103	0.8	72
20240515_1113	1.7	88
20240515_1123	1	59
20240515_1133	1.3	163
20240515_1143	3.8	127
20240515_1153	1	35

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240515_1203	2.3	111
20240515_1213	1	70
20240515_1223	0.4	24
20240515_1233	1.9	129
20240515_1243	0.1	105
20240515_1253	3.1	125
20240515_1303	0.6	107
20240515_1313	0.3	18
20240515_1323	0.2	343
20240515_1333	0.3	27
20240515_1343	2.3	132
20240515_1353	0.8	92
20240515_1403	4.9	113
20240515_1413	0.4	354
20240515_1423	1.4	161
20240515_1433	0.1	69
20240515_1443	0.9	158
20240515_1453	0.3	44
20240515_1503	0.8	318
20240515_1513	1.9	185
20240515_1523	4.2	132
20240515_1533	0.6	23
20240515_1543	0.1	71
20240515_1553	0.1	295
20240515_1603	0.2	276
20240515_1613	0.2	352
20240515_1623	0.9	350
20240515_1633	0.1	331
20240515_1643	0.4	137
20240515_1653	0.3	158
20240515_1703	0.1	337
20240515_1713	0.3	89
20240515_1723	0.1	82
20240515_1733	0.7	354
20240515_1743	0.2	107
20240515_1753	0.1	57
20240515_1803	0.1	106
20240515_1813	0.1	91
20240515_1823	0.1	146
20240515_1833	0.1	168
20240515_1843	0.1	260
20240515_1853	0.1	77
20240515_1903	0.1	1
20240515_1913	0.1	95
20240515_1923	0.2	169
20240515_1933	0.1	174
20240515_1943	0.1	149
20240515_1953	0.1	89
20240515_2003	0.1	61
20240515_2013	0.1	337
20240515_2023	0.1	12
20240515_2033	0.4	180
20240515_2043	0.1	10
20240515_2053	1.1	30
20240515_2103	0.2	16
20240515_2113	0.1	349
20240515_2123	0.5	80
20240515_2133	0.1	103
20240515_2143	0.1	76
20240515_2153	0.1	129
20240515_2203	0.1	5
20240515_2213	0.4	146
20240515_2223	0.1	60
20240515_2233	0.1	247
20240515_2243	0.1	72
20240515_2253	0.1	262
20240515_2303	0.1	35
20240515_2313	0.1	338
20240515_2323	0.1	140
20240515_2333	0.1	340
20240515_2343	0.1	37
20240515_2353	0.1	72

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240516_0003	0.1	76
20240516_0013	0.1	18
20240516_0023	0.1	3
20240516_0033	0.1	48
20240516_0043	0.1	74
20240516_0053	0.1	87
20240516_0103	0.1	31
20240516_0113	0.2	316
20240516_0123	0.1	131
20240516_0133	0.1	99
20240516_0143	0.1	253
20240516_0153	0.1	30
20240516_0203	0.1	126
20240516_0213	0.1	164
20240516_0223	0.1	238
20240516_0233	0.1	315
20240516_0243	0.1	72
20240516_0253	0.2	95
20240516_0303	0.1	113
20240516_0313	0.1	291
20240516_0323	0.1	53
20240516_0333	0.3	59
20240516_0343	0.3	113
20240516_0353	0.1	47
20240516_0403	0.1	185
20240516_0413	0.5	77
20240516_0423	1.3	39
20240516_0433	1.1	28
20240516_0443	0.4	158
20240516_0453	2.8	36
20240516_0503	3.3	69
20240516_0513	1.2	332
20240516_0523	1.4	190
20240516_0533	0.1	100
20240516_0543	1	71
20240516_0553	3	22
20240516_0603	1.5	128
20240516_0613	0.1	58
20240516_0623	0.5	140
20240516_0633	2.4	113
20240516_0643	0.3	24
20240516_0653	0.6	146
20240516_0703	1	163
20240516_0713	0.1	140
20240516_0723	0.2	350
20240516_0733	0.4	61
20240516_0743	1	123
20240516_0753	1.2	42
20240516_0803	0.5	194
20240516_0813	0.4	60
20240516_0823	1.8	43
20240516_0833	0.2	161
20240516_0843	0.4	146
20240516_0853	0.7	141
20240516_0903	2.9	130
20240516_0913	0.4	168
20240516_0923	2.5	345
20240516_0933	1.2	77
20240516_0943	1.1	38
20240516_0953	1.7	21
20240516_1003	1.7	84
20240516_1013	0.9	136
20240516_1023	9.2	204
20240516_1033	0.1	60
20240516_1043	0.2	276
20240516_1053	1.4	130
20240516_1103	0.7	148
20240516_1113	1	44
20240516_1123	2.8	162
20240516_1133	0.5	242
20240516_1143	0.2	113
20240516_1153	1.5	318

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240516_1203	0.8	25
20240516_1213	0.1	86
20240516_1223	0.1	206
20240516_1233	0.5	32
20240516_1243	0.1	284
20240516_1253	0.1	177
20240516_1303	0.1	38
20240516_1313	1.9	175
20240516_1323	1.7	42
20240516_1333	0.3	331
20240516_1343	5.8	134
20240516_1353	2.1	35
20240516_1403	7.9	141
20240516_1413	2.4	123
20240516_1423	0.1	248
20240516_1433	0.3	22
20240516_1443	0.1	339
20240516_1453	2.5	133
20240516_1503	0.2	231
20240516_1513	4.4	41
20240516_1523	1.8	27
20240516_1533	2	49
20240516_1543	3.1	16
20240516_1553	0.6	43
20240516_1603	0.9	306
20240516_1613	0.6	99
20240516_1623	1.5	34
20240516_1633	1.3	18
20240516_1643	0.5	349
20240516_1653	2.1	153
20240516_1703	2.5	73
20240516_1713	8.4	123
20240516_1723	5.6	41
20240516_1733	1.1	131
20240516_1743	2	105
20240516_1753	5.1	89
20240516_1803	0.5	61
20240516_1813	7.2	120
20240516_1823	0.8	172
20240516_1833	3.6	118
20240516_1843	0.7	295
20240516_1853	4.4	27
20240516_1903	0.5	46
20240516_1913	2.1	59
20240516_1923	2.2	130
20240516_1933	1.3	129
20240516_1943	2.3	143
20240516_1953	1.1	82
20240516_2003	0.4	50
20240516_2013	2.5	113
20240516_2023	5.5	58
20240516_2033	7.5	67
20240516_2043	0.7	95
20240516_2053	0.6	53
20240516_2103	3.4	58
20240516_2113	0.2	193
20240516_2123	3.7	67
20240516_2133	2.6	112
20240516_2143	4.6	43
20240516_2153	4.3	66
20240516_2203	0.5	5
20240516_2213	2.6	7
20240516_2223	3.7	14
20240516_2233	7.9	7
20240516_2243	0.2	0
20240516_2253	8.6	44
20240516_2303	1.3	18
20240516_2313	0.1	313
20240516_2323	1.1	39
20240516_2333	3.8	98
20240516_2343	3.6	347
20240516_2353	0.2	305

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240517_0003	0.2	43
20240517_0013	3.4	54
20240517_0023	2.1	144
20240517_0033	0.1	180
20240517_0043	0.5	76
20240517_0053	0.3	48
20240517_0103	0.1	123
20240517_0113	0.2	57
20240517_0123	0.1	79
20240517_0133	0.1	352
20240517_0143	0.1	35
20240517_0153	0.3	140
20240517_0203	0.1	229
20240517_0213	0.1	242
20240517_0223	0.4	0
20240517_0233	0.3	113
20240517_0243	0.2	82
20240517_0253	0.1	116
20240517_0303	0.1	63
20240517_0313	0.1	317
20240517_0323	0.1	42
20240517_0333	0.3	27
20240517_0343	0.1	179
20240517_0353	0.1	140
20240517_0403	0.5	62
20240517_0413	0.1	131
20240517_0423	0.1	123
20240517_0433	0.1	315
20240517_0443	0.1	10
20240517_0453	0.1	245
20240517_0503	0.3	2
20240517_0513	0.2	72
20240517_0523	0.1	92
20240517_0533	0.2	67
20240517_0543	0.1	77
20240517_0553	0.2	36
20240517_0603	0.1	167
20240517_0613	0.1	121
20240517_0623	0.1	153
20240517_0633	0.1	113
20240517_0643	0.1	54
20240517_0653	0.1	250
20240517_0703	0.3	151
20240517_0713	0.1	112
20240517_0723	0.1	146
20240517_0733	0.4	149
20240517_0743	0.1	27
20240517_0753	0.6	145
20240517_0803	0.1	329
20240517_0813	0.1	55
20240517_0823	0.1	336
20240517_0833	0.6	39
20240517_0843	0.6	60
20240517_0853	0.6	64
20240517_0903	3.7	32
20240517_0913	0.4	56
20240517_0923	0.2	4
20240517_0933	0.3	133
20240517_0943	0.1	21
20240517_0953	0.1	244
20240517_1003	0.1	22
20240517_1013	0.3	93
20240517_1023	0.1	314
20240517_1033	0.2	327
20240517_1043	0.1	311
20240517_1053	0.1	122
20240517_1103	0.2	116
20240517_1113	2.4	138
20240517_1123	0.9	50
20240517_1133	2.1	108
20240517_1143	3.1	124
20240517_1153	2.2	153

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240517_1203	3.5	149
20240517_1213	0.1	96
20240517_1223	0.2	29
20240517_1233	0.3	313
20240517_1243	0.2	9
20240517_1253	2	44
20240517_1303	0.1	33
20240517_1313	0.1	41
20240517_1323	0.2	318
20240517_1333	0.8	315
20240517_1343	1	129
20240517_1353	0.1	266
20240517_1403	0.6	62
20240517_1413	0.4	47
20240517_1423	1.1	56
20240517_1433	2.7	124
20240517_1443	1.4	116
20240517_1453	0.1	318
20240517_1503	1.3	95
20240517_1513	0.8	139
20240517_1523	0.3	5
20240517_1533	0.1	47
20240517_1543	0.2	50
20240517_1553	0.2	131
20240517_1603	0.2	113
20240517_1613	0.5	86
20240517_1623	0.4	148
20240517_1633	0.1	93
20240517_1643	0.1	101
20240517_1653	0.1	126
20240517_1703	0.4	56
20240517_1713	1	110
20240517_1723	0.2	112
20240517_1733	0.1	176
20240517_1743	0.1	171
20240517_1753	0.6	134
20240517_1803	0.4	151
20240517_1813	0.1	78
20240517_1823	0.1	236
20240517_1833	0.1	130
20240517_1843	0.1	151
20240517_1853	0.1	126
20240517_1903	0.1	142
20240517_1913	0.1	122
20240517_1923	0.1	93
20240517_1933	0.1	141
20240517_1943	0.3	111
20240517_1953	0.1	152
20240517_2003	0.1	152
20240517_2013	0.1	118
20240517_2023	0.1	137
20240517_2033	0.1	153
20240517_2043	0.1	156
20240517_2053	0.1	285
20240517_2103	0.1	92
20240517_2113	0.1	77
20240517_2123	0.1	19
20240517_2133	0.1	42
20240517_2143	0.3	42
20240517_2153	1.1	65
20240517_2203	0.1	131
20240517_2213	0.1	121
20240517_2223	0.2	336
20240517_2233	0.1	120
20240517_2243	0.2	96
20240517_2253	0.1	158
20240517_2303	0.1	111
20240517_2313	0.1	0
20240517_2323	0.1	138
20240517_2333	0.1	138
20240517_2343	0.1	137
20240517_2353	0.1	173

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240518_0003	0.1	148
20240518_0013	0.1	187
20240518_0023	0.3	320
20240518_0033	0.1	322
20240518_0043	0.1	137
20240518_0053	0.1	353
20240518_0103	0.1	355
20240518_0113	0.1	105
20240518_0123	0.1	140
20240518_0133	0.1	151
20240518_0143	0.1	110
20240518_0153	0.1	72
20240518_0203	0.1	62
20240518_0213	0.4	146
20240518_0223	0.1	212
20240518_0233	0.1	299
20240518_0243	0.1	139
20240518_0253	0.1	105
20240518_0303	0.1	137
20240518_0313	0.1	104
20240518_0323	0.1	117
20240518_0333	0.3	102
20240518_0343	0.1	103
20240518_0353	0.1	101
20240518_0403	0.1	185
20240518_0413	0.1	86
20240518_0423	0.1	104
20240518_0433	0.1	218
20240518_0443	0.1	49
20240518_0453	0.1	60
20240518_0503	0.1	147
20240518_0513	0.1	244
20240518_0523	0.1	218
20240518_0533	0.1	203
20240518_0543	0.1	176
20240518_0553	0.1	141
20240518_0603	0.1	134
20240518_0613	0.1	147
20240518_0623	0.1	100
20240518_0633	0.1	310
20240518_0643	0.1	166
20240518_0653	0.1	127
20240518_0703	0.1	147
20240518_0713	0.1	106
20240518_0723	0.1	151
20240518_0733	0.1	99
20240518_0743	0.1	141
20240518_0753	0.2	17
20240518_0803	0.1	24
20240518_0813	0.1	57
20240518_0823	0.2	341
20240518_0833	0.1	74
20240518_0843	0.4	7
20240518_0853	0.1	7
20240518_0903	0.1	69
20240518_0913	0.1	354
20240518_0923	0.9	68
20240518_0933	3.1	40
20240518_0943	0.1	51
20240518_0953	0.1	347
20240518_1003	3.4	138
20240518_1013	0.1	152
20240518_1023	0.5	102
20240518_1033	0.8	345
20240518_1043	1.1	24
20240518_1053	2	19
20240518_1103	0.3	44
20240518_1113	0.4	353
20240518_1123	3.2	50
20240518_1133	0.8	26
20240518_1143	1.3	136
20240518_1153	0.9	65

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240518_1203	0.1	141
20240518_1213	1.9	166
20240518_1223	7	117
20240518_1233	0.6	319
20240518_1243	0.1	231
20240518_1253	0.1	316
20240518_1303	1.8	349
20240518_1313	0.6	44
20240518_1323	0.6	343
20240518_1333	0.4	3
20240518_1343	0.1	14
20240518_1353	0.2	119
20240518_1403	0.4	44
20240518_1413	0.3	16
20240518_1423	0.1	338
20240518_1433	0.1	43
20240518_1443	0.1	331
20240518_1453	0.7	272
20240518_1503	0.1	197
20240518_1513	0.7	258
20240518_1523	0.1	131
20240518_1533	0.2	13
20240518_1543	0.1	263
20240518_1553	0.1	95
20240518_1603	0.4	137
20240518_1613	0.1	6
20240518_1623	0.2	297
20240518_1633	0.2	304
20240518_1643	0.4	6
20240518_1653	0.1	26
20240518_1703	0.1	93
20240518_1713	0.1	174
20240518_1723	0.1	92
20240518_1733	0.1	22
20240518_1743	0.1	111
20240518_1753	0.3	153
20240518_1803	0.1	49
20240518_1813	0.2	53
20240518_1823	0.3	53
20240518_1833	0.1	187
20240518_1843	0.2	147
20240518_1853	0.1	75
20240518_1903	0.7	54
20240518_1913	0.6	33
20240518_1923	0.4	137
20240518_1933	0.1	140
20240518_1943	1.8	127
20240518_1953	0.1	149
20240518_2003	1.8	39
20240518_2013	0.1	208
20240518_2023	0.1	113
20240518_2033	0.5	150
20240518_2043	0.4	157
20240518_2053	0.9	158
20240518_2103	0.1	57
20240518_2113	0.4	42
20240518_2123	0.1	121
20240518_2133	0.6	107
20240518_2143	0.3	24
20240518_2153	0.1	76
20240518_2203	0.8	131
20240518_2213	0.3	106
20240518_2223	1	332
20240518_2233	1.4	38
20240518_2243	0.2	49
20240518_2253	0.1	112
20240518_2303	0.1	127
20240518_2313	0.1	110
20240518_2323	0.1	320
20240518_2333	0.1	77
20240518_2343	1.2	117
20240518_2353	1.2	5

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240519_0003	0.8	31
20240519_0013	0.1	45
20240519_0023	0.1	348
20240519_0033	0.5	132
20240519_0043	0.1	138
20240519_0053	0.7	123
20240519_0103	0.1	242
20240519_0113	0.2	128
20240519_0123	0.1	49
20240519_0133	0.7	100
20240519_0143	0.1	331
20240519_0153	2.3	85
20240519_0203	0.2	318
20240519_0213	0.3	62
20240519_0223	0.6	31
20240519_0233	0.8	57
20240519_0243	0.4	84
20240519_0253	0.1	83
20240519_0303	0.3	100
20240519_0313	0.1	90
20240519_0323	0.1	152
20240519_0333	0.1	85
20240519_0343	0.9	349
20240519_0353	0.2	76
20240519_0403	2.3	334
20240519_0413	0.1	70
20240519_0423	0.1	335
20240519_0433	2.4	42
20240519_0443	1.4	30
20240519_0453	0.3	114
20240519_0503	0.8	98
20240519_0513	0.1	299
20240519_0523	0.6	98
20240519_0533	0.2	108
20240519_0543	2	137
20240519_0553	0.8	4
20240519_0603	1.4	343
20240519_0613	7.1	25
20240519_0623	1.4	54
20240519_0633	0.1	176
20240519_0643	0.4	124
20240519_0653	1.5	99
20240519_0703	0.1	87
20240519_0713	2.5	31
20240519_0723	1.5	88
20240519_0733	3.5	111
20240519_0743	7.2	144
20240519_0753	2.6	64
20240519_0803	1	71
20240519_0813	1.3	118
20240519_0823	0.6	74
20240519_0833	2.1	84
20240519_0843	4.8	17
20240519_0853	2.6	19
20240519_0903	3.4	42
20240519_0913	2.9	28
20240519_0923	0.5	45
20240519_0933	7	5
20240519_0943	0.5	285
20240519_0953	0.1	121
20240519_1003	0.9	0
20240519_1013	0.1	25
20240519_1023	3.1	131
20240519_1033	0.1	269
20240519_1043	1.1	4
20240519_1053	0.8	67
20240519_1103	5.5	124
20240519_1113	0.6	279
20240519_1123	0.2	322
20240519_1133	3.4	77
20240519_1143	0.3	216
20240519_1153	1.5	30

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240519_1203	3.5	40
20240519_1213	3.4	127
20240519_1223	0.1	60
20240519_1233	1	306
20240519_1243	0.2	288
20240519_1253	0.1	49
20240519_1303	0.3	64
20240519_1313	0.6	103
20240519_1323	2.5	223
20240519_1333	1.1	315
20240519_1343	1.3	257
20240519_1353	0.2	345
20240519_1403	0.1	255
20240519_1413	1	38
20240519_1423	0.5	188
20240519_1433	3.9	78
20240519_1443	1.8	179
20240519_1453	0.8	27
20240519_1503	0.2	60
20240519_1513	5.6	147
20240519_1523	2	141
20240519_1533	0.1	69
20240519_1543	2.9	175
20240519_1553	0.2	123
20240519_1603	2.1	99
20240519_1613	3.6	186
20240519_1623	0.3	96
20240519_1633	4.5	46
20240519_1643	0.7	111
20240519_1653	0.3	32
20240519_1703	1.9	53
20240519_1713	1.7	97
20240519_1723	6	34
20240519_1733	1.4	39
20240519_1743	0.6	85
20240519_1753	5.4	59
20240519_1803	2.2	41
20240519_1813	0.2	319
20240519_1823	0.1	182
20240519_1833	0.5	256
20240519_1843	0.6	57
20240519_1853	0.7	194
20240519_1903	0.3	219
20240519_1913	4	56
20240519_1923	0.6	336
20240519_1933	0.4	79
20240519_1943	0.6	68
20240519_1953	0.3	136
20240519_2003	0.7	57
20240519_2013	0.4	21
20240519_2023	4.7	355
20240519_2033	0.6	80
20240519_2043	3.3	62
20240519_2053	2.1	98
20240519_2103	2.9	25
20240519_2113	0.3	136
20240519_2123	0.9	126
20240519_2133	1.2	0
20240519_2143	0.2	203
20240519_2153	0.3	96
20240519_2203	5.2	47
20240519_2213	4	110
20240519_2223	0.1	349
20240519_2233	1	28
20240519_2243	4.3	71
20240519_2253	0.1	316
20240519_2303	1.2	270
20240519_2313	0.4	186
20240519_2323	0.8	323
20240519_2333	1.7	41
20240519_2343	1.1	118
20240519_2353	1.9	100

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240520_0003	3.5	39
20240520_0013	2.4	30
20240520_0023	2.7	52
20240520_0033	3.1	103
20240520_0043	0.1	20
20240520_0053	0.1	3
20240520_0103	3.6	340
20240520_0113	0.6	22
20240520_0123	0.1	3
20240520_0133	4	13
20240520_0143	0.1	221
20240520_0153	0.1	318
20240520_0203	1.5	57
20240520_0213	1.4	30
20240520_0223	0.2	62
20240520_0233	1.2	72
20240520_0243	0.1	254
20240520_0253	0.1	15
20240520_0303	0.5	351
20240520_0313	0.1	53
20240520_0323	0.6	45
20240520_0333	0.8	95
20240520_0343	0.4	97
20240520_0353	1	96
20240520_0403	0.3	129
20240520_0413	0.6	26
20240520_0423	0.3	143
20240520_0433	2.7	44
20240520_0443	0.4	327
20240520_0453	1.4	91
20240520_0503	2.4	151
20240520_0513	0.2	138
20240520_0523	0.8	31
20240520_0533	1.5	131
20240520_0543	0.8	320
20240520_0553	4.1	345
20240520_0603	3.4	144
20240520_0613	0.2	155
20240520_0623	5.8	135
20240520_0633	1.6	58
20240520_0643	1.7	129
20240520_0653	1.7	163
20240520_0703	7.2	47
20240520_0713	3	34
20240520_0723	2.4	32
20240520_0733	0.2	199
20240520_0743	0.3	303
20240520_0753	0.4	302
20240520_0803	1.5	344
20240520_0813	1.4	77
20240520_0823	3.7	23
20240520_0833	0.9	5
20240520_0843	0.8	324
20240520_0853	0.2	79
20240520_0903	1.1	96
20240520_0913	1.6	59
20240520_0923	1.3	350
20240520_0933	0.7	4
20240520_0943	2.6	55
20240520_0953	3.7	120
20240520_1003	0.5	144
20240520_1013	0.7	103
20240520_1023	0.3	20
20240520_1033	1	131
20240520_1043	0.5	129
20240520_1053	0.4	159
20240520_1103	2	117
20240520_1113	1.3	339
20240520_1123	3.8	90
20240520_1133	3.3	131
20240520_1143	1	31
20240520_1153	1.5	119

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240520_1203	0.8	85
20240520_1213	0.5	71
20240520_1223	5.9	126
20240520_1233	0.2	227
20240520_1243	1.5	350
20240520_1253	0.1	112
20240520_1303	2.3	19
20240520_1313	1	97
20240520_1323	2.2	36
20240520_1333	0.8	344
20240520_1343	0.1	142
20240520_1353	9.5	132
20240520_1403	1.1	2
20240520_1413	4.7	92
20240520_1423	1.8	83
20240520_1433	0.1	125
20240520_1443	0.9	88
20240520_1453	0.3	43
20240520_1503	0.1	96
20240520_1513	0.1	37
20240520_1523	0.2	79
20240520_1533	0.3	337
20240520_1543	0.1	102
20240520_1553	1.9	344
20240520_1603	0.1	329
20240520_1613	0.2	82
20240520_1623	0.3	18
20240520_1633	1.9	98
20240520_1643	0.2	339
20240520_1653	4.3	57
20240520_1703	1.3	327
20240520_1713	0.9	333
20240520_1723	0.3	145
20240520_1733	2.4	85
20240520_1743	2.6	98
20240520_1753	0.7	0
20240520_1803	0.1	13
20240520_1813	2.9	42
20240520_1823	2.4	128
20240520_1833	0.1	193
20240520_1843	2.6	354
20240520_1853	0.9	114
20240520_1903	0.5	32
20240520_1913	1.6	93
20240520_1923	0.5	80
20240520_1933	0.5	137
20240520_1943	1	39
20240520_1953	0.5	3
20240520_2003	0.4	17
20240520_2013	0.1	197
20240520_2023	1.5	35
20240520_2033	0.9	338
20240520_2043	7.6	35
20240520_2053	1.7	79
20240520_2103	4.4	3
20240520_2113	2.5	30
20240520_2123	5.9	35
20240520_2133	0.1	280
20240520_2143	1.7	79
20240520_2153	0.3	294
20240520_2203	0.3	54
20240520_2213	0.3	53
20240520_2223	0.1	104
20240520_2233	2.9	142
20240520_2243	2.8	72
20240520_2253	2.1	19
20240520_2303	0.8	123
20240520_2313	5.6	58
20240520_2323	1.1	157
20240520_2333	0.1	213
20240520_2343	0.1	157
20240520_2353	0.1	19

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240521_0003	1	61
20240521_0013	2.2	46
20240521_0023	1.3	38
20240521_0033	0.7	74
20240521_0043	1	124
20240521_0053	0.2	168
20240521_0103	0.7	24
20240521_0113	3.1	99
20240521_0123	0.5	157
20240521_0133	0.9	51
20240521_0143	1.7	45
20240521_0153	0.9	81
20240521_0203	1	59
20240521_0213	1.2	163
20240521_0223	0.1	79
20240521_0233	0.5	1
20240521_0243	0.2	159
20240521_0253	0.1	256
20240521_0303	0.1	193
20240521_0313	0.8	113
20240521_0323	2.2	338
20240521_0333	0.5	193
20240521_0343	0.1	35
20240521_0353	3	19
20240521_0403	0.1	209
20240521_0413	0.3	164
20240521_0423	0.7	44
20240521_0433	0.2	162
20240521_0443	0.5	316
20240521_0453	0.1	142
20240521_0503	0.3	179
20240521_0513	0.1	8
20240521_0523	0.2	38
20240521_0533	0.3	58
20240521_0543	1.2	44
20240521_0553	0.8	9
20240521_0603	1.7	110
20240521_0613	1.3	14
20240521_0623	0.1	203
20240521_0633	2	44
20240521_0643	0.6	137
20240521_0653	0.4	88
20240521_0703	5.4	56
20240521_0713	2.7	61
20240521_0723	1	343
20240521_0733	0.4	246
20240521_0743	0.1	271
20240521_0753	1.8	67
20240521_0803	0.4	43
20240521_0813	0.7	262
20240521_0823	0.1	67
20240521_0833	0.1	60
20240521_0843	1.7	31
20240521_0853	0.1	253
20240521_0903	0.1	289
20240521_0913	0.1	119
20240521_0923	0.4	341
20240521_0933	0.3	282
20240521_0943	0.1	318
20240521_0953	0.1	10
20240521_1003	0.1	175
20240521_1013	1	52
20240521_1023	0.3	334
20240521_1033	0.5	337
20240521_1043	0.3	85
20240521_1053	0.1	48
20240521_1103	0.1	217
20240521_1113	0.1	216
20240521_1123	0.2	56
20240521_1133	0.1	336
20240521_1143	0.6	336
20240521_1153	0.1	305

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240521_1203	0.1	115
20240521_1213	0.1	288
20240521_1223	1.5	10
20240521_1233	0.1	106
20240521_1243	0.1	85
20240521_1253	0.2	348
20240521_1303	1	25
20240521_1313	0.6	343
20240521_1323	0.1	274
20240521_1333	0.1	331
20240521_1343	0.1	314
20240521_1353	0.1	33
20240521_1403	0.1	6
20240521_1413	0.3	334
20240521_1423	0.1	12
20240521_1433	0.2	24
20240521_1443	0.1	298
20240521_1453	0.1	296
20240521_1503	0.1	60
20240521_1513	0.1	339
20240521_1523	0.2	72
20240521_1533	0.4	106
20240521_1543	0.1	156
20240521_1553	0.2	71
20240521_1603	0.1	336
20240521_1613	0.1	231
20240521_1623	0.1	270
20240521_1633	0.1	333
20240521_1643	0.1	318
20240521_1653	0.1	318
20240521_1703	0.1	10
20240521_1713	0.1	2
20240521_1723	0.1	85
20240521_1733	0.1	22
20240521_1743	0.1	281
20240521_1753	0.1	296
20240521_1803	0.1	33
20240521_1813	0.1	82
20240521_1823	0.1	86
20240521_1833	0.1	86
20240521_1843	0.1	86
20240521_1853	0.1	86
20240521_1903	0.1	86
20240521_1913	0.1	86
20240521_1923	0.1	86
20240521_1933	0.1	86
20240521_1943	0.1	86
20240521_1953	0.1	86
20240521_2003	0.1	86
20240521_2013	0.1	86
20240521_2023	0.1	86
20240521_2033	0.1	86
20240521_2043	0.1	86
20240521_2053	0.1	93
20240521_2103	0.1	93
20240521_2113	0.1	93
20240521_2123	0.1	93
20240521_2133	0.1	93
20240521_2143	0.1	80
20240521_2153	0.1	80
20240521_2203	0.1	80
20240521_2213	0.1	80
20240521_2223	0.1	80
20240521_2233	0.1	62
20240521_2243	0.1	104
20240521_2253	0.1	104
20240521_2303	0.1	96
20240521_2313	0.1	96
20240521_2323	0.1	96
20240521_2333	0.1	202
20240521_2343	0.1	202
20240521_2353	0.1	181

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240522_0003	0.1	279
20240522_0013	0.1	334
20240522_0023	0.1	334
20240522_0033	0.1	334
20240522_0043	0.1	334
20240522_0053	0.1	334
20240522_0103	0.1	334
20240522_0113	0.1	334
20240522_0123	0.1	334
20240522_0133	0.1	334
20240522_0143	0.1	18
20240522_0153	0.1	213
20240522_0203	0.1	207
20240522_0213	0.1	152
20240522_0223	0.1	137
20240522_0233	0.1	137
20240522_0243	0.1	120
20240522_0253	0.1	120
20240522_0303	0.1	120
20240522_0313	0.1	120
20240522_0323	0.1	120
20240522_0333	0.1	120
20240522_0343	0.1	120
20240522_0353	0.1	120
20240522_0403	0.1	17
20240522_0413	0.1	29
20240522_0423	0.1	38
20240522_0433	0.1	38
20240522_0443	0.1	38
20240522_0453	0.1	48
20240522_0503	0.1	48
20240522_0513	0.1	58
20240522_0523	0.1	58
20240522_0533	0.1	58
20240522_0543	0.1	58
20240522_0553	0.1	58
20240522_0603	0.1	58
20240522_0613	0.1	58
20240522_0623	0.1	58
20240522_0633	0.1	53
20240522_0643	0.1	61
20240522_0653	0.1	83
20240522_0703	0.1	108
20240522_0713	0.1	230
20240522_0723	0.1	272
20240522_0733	0.1	254
20240522_0743	0.1	262
20240522_0753	0.1	277
20240522_0803	0.1	286
20240522_0813	0.1	144
20240522_0823	0.1	160
20240522_0833	0.1	148
20240522_0843	0.1	148
20240522_0853	0.1	145
20240522_0903	0.1	147
20240522_0913	0.1	203
20240522_0923	0.1	104
20240522_0933	0.1	135
20240522_0943	0.1	210
20240522_0953	0.6	283
20240522_1003	0.1	268
20240522_1013	0.1	208
20240522_1023	0.1	269
20240522_1033	0.1	181
20240522_1043	0.1	126
20240522_1053	0.1	180
20240522_1103	0.1	209
20240522_1113	0.1	195
20240522_1123	0.1	149
20240522_1133	0.1	174
20240522_1143	0.1	151
20240522_1153	0.1	152

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240522_1203	0.1	27
20240522_1213	0.1	1
20240522_1223	0.1	14
20240522_1233	0.1	6
20240522_1243	0.1	26
20240522_1253	0.1	77
20240522_1303	1	105
20240522_1313	0.1	102
20240522_1323	0.3	114
20240522_1333	0.1	94
20240522_1343	0.1	140
20240522_1353	0.1	114
20240522_1403	0.2	149
20240522_1413	0.1	335
20240522_1423	0.1	69
20240522_1433	0.1	223
20240522_1443	0.2	97
20240522_1453	0.3	110
20240522_1503	0.2	32
20240522_1513	0.1	98
20240522_1523	1.9	98
20240522_1533	0.1	83
20240522_1543	1.9	99
20240522_1553	1	60
20240522_1603	0.1	1
20240522_1613	0.1	237
20240522_1623	1.4	144
20240522_1633	0.1	149
20240522_1643	0.4	122
20240522_1653	0.1	41
20240522_1703	0.1	57
20240522_1713	0.4	173
20240522_1723	0.2	50
20240522_1733	0.1	53
20240522_1743	0.1	112
20240522_1753	0.3	19
20240522_1803	0.1	128
20240522_1813	0.1	342
20240522_1823	0.1	77
20240522_1833	0.3	120
20240522_1843	0.1	52
20240522_1853	0.1	122
20240522_1903	0.3	128
20240522_1913	0.1	81
20240522_1923	0.1	126
20240522_1933	0.1	168
20240522_1943	0.1	119
20240522_1953	0.1	163
20240522_2003	0.1	113
20240522_2013	0.1	94
20240522_2023	0.1	68
20240522_2033	0.1	282
20240522_2043	0.1	27
20240522_2053	0.1	48
20240522_2103	0.1	60
20240522_2113	0.9	103
20240522_2123	0.1	114
20240522_2133	0.3	123
20240522_2143	0.5	74
20240522_2153	1.3	120
20240522_2203	0.1	142
20240522_2213	0.1	119
20240522_2223	0.1	135
20240522_2233	0.1	165
20240522_2243	0.1	114
20240522_2253	0.1	194
20240522_2303	0.1	351
20240522_2313	0.1	12
20240522_2323	0.1	158
20240522_2333	0.1	77
20240522_2343	0.1	204
20240522_2353	0.1	156

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240523_0003	0.1	43
20240523_0013	0.1	68
20240523_0023	0.1	331
20240523_0033	0.1	260
20240523_0043	0.1	104
20240523_0053	0.1	104
20240523_0103	0.1	41
20240523_0113	0.1	77
20240523_0123	0.1	77
20240523_0133	0.1	97
20240523_0143	0.1	97
20240523_0153	0.1	86
20240523_0203	0.1	41
20240523_0213	0.1	41
20240523_0223	0.1	32
20240523_0233	0.1	184
20240523_0243	0.1	100
20240523_0253	0.1	45
20240523_0303	0.1	352
20240523_0313	0.1	99
20240523_0323	0.1	93
20240523_0333	0.1	93
20240523_0343	0.1	93
20240523_0353	0.1	87
20240523_0403	0.1	199
20240523_0413	0.1	23
20240523_0423	0.1	135
20240523_0433	0.1	133
20240523_0443	0.1	174
20240523_0453	0.2	314
20240523_0503	0.1	344
20240523_0513	0.1	348
20240523_0523	0.1	133
20240523_0533	0.1	351
20240523_0543	1	329
20240523_0553	0.8	3
20240523_0603	0.3	254
20240523_0613	0.1	26
20240523_0623	0.1	162
20240523_0633	0.1	25
20240523_0643	0.2	49
20240523_0653	0.2	77
20240523_0703	0.1	4
20240523_0713	0.1	43
20240523_0723	0.3	349
20240523_0733	0.1	37
20240523_0743	0.9	342
20240523_0753	0.2	156
20240523_0803	0.1	345
20240523_0813	0.1	10
20240523_0823	1.8	321
20240523_0833	0.9	43
20240523_0843	0.1	51
20240523_0853	0.1	26
20240523_0903	0.1	338
20240523_0913	0.1	332
20240523_0923	0.1	31
20240523_0933	1.9	123
20240523_0943	0.1	299
20240523_0953	1.7	174
20240523_1003	0.1	268
20240523_1013	0.8	83
20240523_1023	0.6	71
20240523_1033	0.9	45
20240523_1043	0.1	215
20240523_1053	0.4	58
20240523_1103	2.7	348
20240523_1113	2.5	307
20240523_1123	0.1	11
20240523_1133	0.6	18
20240523_1143	5.7	127
20240523_1153	0.8	34

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240523_1203	0.1	29
20240523_1213	0.1	29
20240523_1223	2.8	193
20240523_1233	0.1	297
20240523_1243	0.1	142
20240523_1253	0.5	120
20240523_1303	3.3	53
20240523_1313	1.9	39
20240523_1323	0.2	147
20240523_1333	1.3	115
20240523_1343	0.1	69
20240523_1353	0.1	83
20240523_1403	0.5	55
20240523_1413	0.2	24
20240523_1423	0.1	144
20240523_1433	0.1	68
20240523_1443	0.1	29
20240523_1453	0.1	67
20240523_1503	0.7	5
20240523_1513	1.2	14
20240523_1523	0.9	129
20240523_1533	0.6	61
20240523_1543	0.1	199
20240523_1553	0.1	90
20240523_1603	0.2	248
20240523_1613	0.3	342
20240523_1623	6	43
20240523_1633	0.1	55
20240523_1643	1.3	56
20240523_1653	0.1	295
20240523_1703	0.1	68
20240523_1713	0.1	155
20240523_1723	0.1	248
20240523_1733	0.1	125
20240523_1743	0.1	247
20240523_1753	0.1	179
20240523_1803	0.1	243
20240523_1813	0.1	352
20240523_1823	0.1	269
20240523_1833	0.1	271
20240523_1843	0.1	271
20240523_1853	0.1	299
20240523_1903	0.1	331
20240523_1913	0.1	160
20240523_1923	0.1	106
20240523_1933	0.1	149
20240523_1943	0.1	27
20240523_1953	0.1	8
20240523_2003	0.1	261
20240523_2013	0.1	85
20240523_2023	0.1	289
20240523_2033	0.1	49
20240523_2043	0.1	84
20240523_2053	0.1	179
20240523_2103	0.1	296
20240523_2113	0.1	80
20240523_2123	0.1	100
20240523_2133	0.1	101
20240523_2143	0.1	125
20240523_2153	0.1	125
20240523_2203	0.1	48
20240523_2213	0.1	122
20240523_2223	0.1	79
20240523_2233	0.1	275
20240523_2243	0.1	66
20240523_2253	0.1	66
20240523_2303	0.1	63
20240523_2313	0.1	122
20240523_2323	0.1	135
20240523_2333	0.1	289
20240523_2343	0.1	324
20240523_2353	0.1	107

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240524_0003	0.1	70
20240524_0013	0.1	76
20240524_0023	0.1	119
20240524_0033	0.2	110
20240524_0043	0.1	7
20240524_0053	0.1	71
20240524_0103	0.1	350
20240524_0113	1.4	64
20240524_0123	0.2	17
20240524_0133	1	61
20240524_0143	0.1	2
20240524_0153	0.2	142
20240524_0203	0.2	90
20240524_0213	0.2	16
20240524_0223	0.3	315
20240524_0233	0.3	44
20240524_0243	0.2	106
20240524_0253	0.1	253
20240524_0303	0.1	16
20240524_0313	1	327
20240524_0323	0.1	32
20240524_0333	0.4	351
20240524_0343	0.1	66
20240524_0353	0.3	132
20240524_0403	0.2	37
20240524_0413	0.1	345
20240524_0423	0.6	283
20240524_0433	0.1	45
20240524_0443	0.5	60
20240524_0453	0.1	3
20240524_0503	0.4	154
20240524_0513	0.6	14
20240524_0523	0.2	3
20240524_0533	0.5	7
20240524_0543	0.3	177
20240524_0553	1.8	153
20240524_0603	0.1	107
20240524_0613	0.1	315
20240524_0623	0.1	243
20240524_0633	0.1	56
20240524_0643	1.5	16
20240524_0653	0.8	21
20240524_0703	0.1	243
20240524_0713	0.1	339
20240524_0723	0.1	109
20240524_0733	0.1	63
20240524_0743	0.1	235
20240524_0753	1.4	316
20240524_0803	0.1	310
20240524_0813	0.1	76
20240524_0823	0.1	169
20240524_0833	1	78
20240524_0843	0.8	337
20240524_0853	0.7	16
20240524_0903	0.1	15
20240524_0913	1	16
20240524_0923	0.1	261
20240524_0933	0.1	53
20240524_0943	0.2	153
20240524_0953	0.9	307
20240524_1003	0.1	34
20240524_1013	1.4	89
20240524_1023	0.1	183
20240524_1033	0.1	201
20240524_1043	0.1	51
20240524_1053	0.1	167
20240524_1103	0.1	334
20240524_1113	0.1	63
20240524_1123	0.1	84
20240524_1133	1	291
20240524_1143	0.1	45
20240524_1153	0.6	164

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240524_1203	0.3	85
20240524_1213	0.1	174
20240524_1223	0.1	71
20240524_1233	0.1	340
20240524_1243	0.1	195
20240524_1253	0.1	75
20240524_1303	0.5	40
20240524_1313	0.1	108
20240524_1323	0.1	121
20240524_1333	0.1	96
20240524_1343	0.1	232
20240524_1353	0.1	244
20240524_1403	0.1	210
20240524_1413	0.1	129
20240524_1423	0.1	40
20240524_1433	0.1	23
20240524_1443	0.1	158
20240524_1453	0.1	180
20240524_1503	0.1	206
20240524_1513	0.1	123
20240524_1523	0.1	68
20240524_1533	0.1	88
20240524_1543	0.1	319
20240524_1553	0.1	178
20240524_1603	0.1	30
20240524_1613	0.1	47
20240524_1623	0.1	297
20240524_1633	0.5	42
20240524_1643	0.1	275
20240524_1653	0.1	113
20240524_1703	0.1	122
20240524_1713	0.1	292
20240524_1723	0.1	106
20240524_1733	0.1	53
20240524_1743	0.1	67
20240524_1753	0.1	352
20240524_1803	0.1	352
20240524_1813	0.1	352
20240524_1823	0.1	287
20240524_1833	0.1	235
20240524_1843	0.1	109
20240524_1853	0.1	151
20240524_1903	0.1	133
20240524_1913	0.1	69
20240524_1923	0.1	93
20240524_1933	0.1	207
20240524_1943	0.1	75
20240524_1953	0.1	133
20240524_2003	0.1	206
20240524_2013	0.1	153
20240524_2023	0.1	343
20240524_2033	0.1	143
20240524_2043	0.4	64
20240524_2053	0.1	168
20240524_2103	0.1	342
20240524_2113	0.6	94
20240524_2123	2.1	321
20240524_2133	0.2	40
20240524_2143	1.1	41
20240524_2153	0.1	178
20240524_2203	6.6	123
20240524_2213	0.2	21
20240524_2223	0.2	70
20240524_2233	0.1	57
20240524_2243	0.2	148
20240524_2253	0.7	73
20240524_2303	0.7	95
20240524_2313	0.2	43
20240524_2323	0.7	7
20240524_2333	0.1	287
20240524_2343	0.9	328
20240524_2353	0.1	43

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240525_0003	0.1	258
20240525_0013	0.1	300
20240525_0023	0.1	1
20240525_0033	0.1	58
20240525_0043	1.8	39
20240525_0053	0.1	60
20240525_0103	0.1	130
20240525_0113	0.1	46
20240525_0123	0.1	336
20240525_0133	0.1	146
20240525_0143	0.1	245
20240525_0153	0.1	245
20240525_0203	0.1	123
20240525_0213	0.1	145
20240525_0223	0.1	145
20240525_0233	0.1	145
20240525_0243	0.1	143
20240525_0253	0.1	60
20240525_0303	0.1	23
20240525_0313	0.1	169
20240525_0323	0.1	315
20240525_0333	0.1	165
20240525_0343	0.1	162
20240525_0353	0.1	262
20240525_0403	0.1	262
20240525_0413	0.1	262
20240525_0423	0.1	178
20240525_0433	0.1	178
20240525_0443	0.1	178
20240525_0453	0.1	178
20240525_0503	0.1	178
20240525_0513	0.1	178
20240525_0523	0.1	178
20240525_0533	0.1	178
20240525_0543	0.1	178
20240525_0553	0.1	178
20240525_0603	0.1	178
20240525_0613	0.1	169
20240525_0623	0.1	147
20240525_0633	0.1	147
20240525_0643	0.1	147
20240525_0653	0.1	113
20240525_0703	0.1	235
20240525_0713	0.1	7
20240525_0723	0.1	236
20240525_0733	0.1	157
20240525_0743	0.1	161
20240525_0753	0.1	143
20240525_0803	0.1	143
20240525_0813	0.1	218
20240525_0823	0.1	218
20240525_0833	0.1	166
20240525_0843	0.1	148
20240525_0853	0.1	144
20240525_0903	0.1	157
20240525_0913	0.1	211
20240525_0923	0.1	170
20240525_0933	0.1	153
20240525_0943	0.5	351
20240525_0953	0.1	140
20240525_1003	0.1	341
20240525_1013	0.1	306
20240525_1023	0.1	61
20240525_1033	0.4	49
20240525_1043	0.2	81
20240525_1053	0.1	70
20240525_1103	0.1	56
20240525_1113	0.1	281
20240525_1123	0.1	76
20240525_1133	1	127
20240525_1143	1	132
20240525_1153	0.1	50

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240525_1203	1.6	102
20240525_1213	1.3	42
20240525_1223	1	125
20240525_1233	0.3	108
20240525_1243	3.1	101
20240525_1253	0.7	145
20240525_1303	0.1	213
20240525_1313	0.1	146
20240525_1323	0.1	93
20240525_1333	1.8	70
20240525_1343	0.1	113
20240525_1353	0.1	204
20240525_1403	0.1	186
20240525_1413	0.5	343
20240525_1423	0.5	29
20240525_1433	0.2	8
20240525_1443	0.1	7
20240525_1453	0.1	287
20240525_1503	0.4	113
20240525_1513	2.8	7
20240525_1523	0.8	29
20240525_1533	0.1	345
20240525_1543	0.1	14
20240525_1553	0.1	344
20240525_1603	0.2	140
20240525_1613	0.2	181
20240525_1623	0.1	1
20240525_1633	0.1	292
20240525_1643	0.1	287
20240525_1653	0.1	141
20240525_1703	0.5	58
20240525_1713	0.6	8
20240525_1723	0.1	266
20240525_1733	0.2	154
20240525_1743	0.1	119
20240525_1753	1.2	31
20240525_1803	0.1	17
20240525_1813	0.1	217
20240525_1823	1.7	155
20240525_1833	0.1	82
20240525_1843	0.1	186
20240525_1853	0.1	21
20240525_1903	0.1	347
20240525_1913	0.2	153
20240525_1923	0.1	115
20240525_1933	0.1	347
20240525_1943	0.9	105
20240525_1953	0.1	190
20240525_2003	0.1	332
20240525_2013	0.1	331
20240525_2023	0.1	319
20240525_2033	0.1	230
20240525_2043	0.1	160
20240525_2053	0.1	110
20240525_2103	0.1	202
20240525_2113	0.3	146
20240525_2123	0.1	160
20240525_2133	0.1	40
20240525_2143	0.1	69
20240525_2153	0.1	200
20240525_2203	0.2	185
20240525_2213	0.8	151
20240525_2223	0.2	23
20240525_2233	0.6	164
20240525_2243	1.1	7
20240525_2253	0.2	140
20240525_2303	1.3	0
20240525_2313	0.1	102
20240525_2323	0.3	151
20240525_2333	0.1	110
20240525_2343	0.2	351
20240525_2353	0.6	349

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240526_0003	0.1	299
20240526_0013	0.1	272
20240526_0023	0.8	98
20240526_0033	0.4	110
20240526_0043	0.1	16
20240526_0053	0.1	174
20240526_0103	1.3	40
20240526_0113	0.1	126
20240526_0123	0.1	169
20240526_0133	0.1	349
20240526_0143	0.1	38
20240526_0153	0.1	307
20240526_0203	0.1	71
20240526_0213	0.2	348
20240526_0223	0.1	114
20240526_0233	0.1	44
20240526_0243	0.2	117
20240526_0253	0.4	137
20240526_0303	0.1	184
20240526_0313	0.1	184
20240526_0323	0.1	185
20240526_0333	0.1	265
20240526_0343	0.1	133
20240526_0353	0.1	293
20240526_0403	0.1	129
20240526_0413	0.1	297
20240526_0423	0.1	129
20240526_0433	0.1	130
20240526_0443	1.1	121
20240526_0453	0.8	92
20240526_0503	0.3	106
20240526_0513	2.8	136
20240526_0523	3.1	139
20240526_0533	0.1	39
20240526_0543	0.1	119
20240526_0553	0.1	64
20240526_0603	0.1	87
20240526_0613	0.1	133
20240526_0623	0.1	158
20240526_0633	0.2	74
20240526_0643	0.1	71
20240526_0653	0.1	84
20240526_0703	0.1	94
20240526_0713	0.1	139
20240526_0723	0.1	148
20240526_0733	0.1	49
20240526_0743	0.1	126
20240526_0753	0.1	125
20240526_0803	0.1	125
20240526_0813	0.1	125
20240526_0823	0.1	20
20240526_0833	0.1	348
20240526_0843	0.1	78
20240526_0853	0.1	75
20240526_0903	0.1	242
20240526_0913	0.1	261
20240526_0923	0.1	147
20240526_0933	0.1	210
20240526_0943	0.1	84
20240526_0953	0.1	156
20240526_1003	0.1	303
20240526_1013	0.1	343
20240526_1023	0.1	0
20240526_1033	0.1	143
20240526_1043	0.1	160
20240526_1053	0.1	152
20240526_1103	0.1	149
20240526_1113	0.1	141
20240526_1123	0.1	144
20240526_1133	0.1	149
20240526_1143	0.1	320
20240526_1153	0.1	227

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240526_1203	0.5	286
20240526_1213	0.2	298
20240526_1223	0.5	146
20240526_1233	0.1	326
20240526_1243	0.1	174
20240526_1253	0.1	139
20240526_1303	0.1	144
20240526_1313	0.1	148
20240526_1323	0.1	249
20240526_1333	0.2	167
20240526_1343	0.1	126
20240526_1353	0.1	189
20240526_1403	0.3	164
20240526_1413	0.1	54
20240526_1423	0.1	88
20240526_1433	0.1	77
20240526_1443	0.1	36
20240526_1453	0.1	27
20240526_1503	0.1	71
20240526_1513	0.1	341
20240526_1523	0.1	55
20240526_1533	0.1	91
20240526_1543	0.1	89
20240526_1553	0.1	97
20240526_1603	0.1	190
20240526_1613	0.1	237
20240526_1623	0.1	263
20240526_1633	0.1	77
20240526_1643	0.1	90
20240526_1653	0.6	56
20240526_1703	0.1	32
20240526_1713	0.2	221
20240526_1723	0.1	186
20240526_1733	0.1	32
20240526_1743	0.1	124
20240526_1753	0.1	34
20240526_1803	0.1	11
20240526_1813	0.1	73
20240526_1823	0.1	283
20240526_1833	0.1	108
20240526_1843	0.1	124
20240526_1853	0.1	77
20240526_1903	0.1	92
20240526_1913	0.1	92
20240526_1923	0.1	101
20240526_1933	0.1	91
20240526_1943	0.1	78
20240526_1953	0.1	93
20240526_2003	0.1	65
20240526_2013	0.7	115
20240526_2023	0.1	93
20240526_2033	0.1	124
20240526_2043	1.1	119
20240526_2053	0.2	185
20240526_2103	0.1	56
20240526_2113	0.1	133
20240526_2123	0.1	79
20240526_2133	0.2	138
20240526_2143	0.1	188
20240526_2153	0.1	80
20240526_2203	0.1	49
20240526_2213	0.1	63
20240526_2223	0.1	164
20240526_2233	0.1	274
20240526_2243	0.1	321
20240526_2253	0.1	63
20240526_2303	0.1	64
20240526_2313	0.1	141
20240526_2323	0.1	199
20240526_2333	0.1	143
20240526_2343	0.1	90
20240526_2353	0.1	137

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240527_0003	0.1	12
20240527_0013	0.1	144
20240527_0023	0.1	110
20240527_0033	0.1	24
20240527_0043	0.1	59
20240527_0053	0.1	65
20240527_0103	0.1	108
20240527_0113	0.1	70
20240527_0123	0.1	88
20240527_0133	0.1	124
20240527_0143	0.1	34
20240527_0153	0.1	55
20240527_0203	0.1	73
20240527_0213	0.1	31
20240527_0223	0.1	129
20240527_0233	0.1	104
20240527_0243	0.2	168
20240527_0253	0.1	255
20240527_0303	0.1	65
20240527_0313	0.1	87
20240527_0323	0.1	332
20240527_0333	0.1	63
20240527_0343	0.1	60
20240527_0353	0.1	85
20240527_0403	0.1	122
20240527_0413	0.1	94
20240527_0423	0.1	48
20240527_0433	0.1	116
20240527_0443	0.1	220
20240527_0453	0.1	253
20240527_0503	0.1	138
20240527_0513	0.1	112
20240527_0523	0.1	183
20240527_0533	0.1	88
20240527_0543	0.1	70
20240527_0553	0.1	252
20240527_0603	0.1	252
20240527_0613	0.1	3
20240527_0623	0.1	142
20240527_0633	0.1	68
20240527_0643	0.1	42
20240527_0653	0.1	122
20240527_0703	0.1	32
20240527_0713	0.1	328
20240527_0723	0.1	84
20240527_0733	0.1	247
20240527_0743	0.1	207
20240527_0753	0.1	252
20240527_0803	0.1	254
20240527_0813	0.1	56
20240527_0823	0.1	257
20240527_0833	0.1	243
20240527_0843	0.1	277
20240527_0853	0.1	196
20240527_0903	0.1	65
20240527_0913	0.1	283
20240527_0923	0.1	128
20240527_0933	0.1	155
20240527_0943	0.1	238
20240527_0953	0.1	219
20240527_1003	0.1	242
20240527_1013	0.1	229
20240527_1023	0.1	227
20240527_1033	0.1	231
20240527_1043	0.1	208
20240527_1053	0.1	207
20240527_1103	1.7	148
20240527_1113	0.1	230
20240527_1123	0.1	168
20240527_1133	0.1	241
20240527_1143	0.5	160
20240527_1153	0.1	283

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240527_1203	0.1	235
20240527_1213	0.1	230
20240527_1223	0.1	215
20240527_1233	0.1	170
20240527_1243	0.1	195
20240527_1253	0.2	22
20240527_1303	0.1	141
20240527_1313	0.5	236
20240527_1323	0.1	155
20240527_1333	0.3	73
20240527_1343	0.1	267
20240527_1353	0.1	337
20240527_1403	0.4	314
20240527_1413	0.1	216
20240527_1423	0.2	172
20240527_1433	0.2	158
20240527_1443	0.1	150
20240527_1453	1.8	159
20240527_1503	0.1	178
20240527_1513	0.1	286
20240527_1523	0.2	135
20240527_1533	0.1	149
20240527_1543	0.8	160
20240527_1553	0.1	263
20240527_1603	0.1	185
20240527_1613	0.1	184
20240527_1623	0.1	239
20240527_1633	0.1	177
20240527_1643	0.1	241
20240527_1653	0.1	66
20240527_1703	0.1	164
20240527_1713	0.7	257
20240527_1723	0.1	228
20240527_1733	0.1	196
20240527_1743	0.1	265
20240527_1753	0.1	291
20240527_1803	0.1	95
20240527_1813	0.1	154
20240527_1823	0.2	154
20240527_1833	0.1	202
20240527_1843	0.1	222
20240527_1853	0.1	61
20240527_1903	0.1	151
20240527_1913	0.1	132
20240527_1923	0.1	150
20240527_1933	0.1	137
20240527_1943	0.1	87
20240527_1953	0.1	87
20240527_2003	0.1	87
20240527_2013	0.1	87
20240527_2023	0.1	64
20240527_2033	0.1	64
20240527_2043	0.1	67
20240527_2053	0.1	38
20240527_2103	0.1	38
20240527_2113	0.1	55
20240527_2123	0.1	32
20240527_2133	0.1	30
20240527_2143	0.1	30
20240527_2153	0.1	340
20240527_2203	0.1	57
20240527_2213	0.1	48
20240527_2223	0.1	42
20240527_2233	0.1	42
20240527_2243	0.1	42
20240527_2253	0.1	15
20240527_2303	0.1	49
20240527_2313	0.1	342
20240527_2323	0.1	53
20240527_2333	0.1	283
20240527_2343	0.1	8
20240527_2353	0.1	9

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240528_0003	0.1	33
20240528_0013	0.1	33
20240528_0023	0.1	66
20240528_0033	0.1	171
20240528_0043	0.1	264
20240528_0053	0.1	239
20240528_0103	0.1	259
20240528_0113	0.1	24
20240528_0123	0.1	311
20240528_0133	0.1	31
20240528_0143	0.3	42
20240528_0153	0.1	50
20240528_0203	0.1	252
20240528_0213	0.1	351
20240528_0223	0.1	326
20240528_0233	0.1	117
20240528_0243	0.1	150
20240528_0253	0.1	150
20240528_0303	0.1	150
20240528_0313	0.1	153
20240528_0323	0.1	153
20240528_0333	0.1	153
20240528_0343	0.1	123
20240528_0353	0.1	123
20240528_0403	0.1	71
20240528_0413	0.1	10
20240528_0423	0.1	10
20240528_0433	0.1	28
20240528_0443	0.1	28
20240528_0453	0.1	28
20240528_0503	0.1	28
20240528_0513	0.1	28
20240528_0523	0.1	28
20240528_0533	0.1	28
20240528_0543	0.1	28
20240528_0553	0.1	27
20240528_0603	0.1	27
20240528_0613	0.1	317
20240528_0623	0.1	234
20240528_0633	0.1	108
20240528_0643	0.1	18
20240528_0653	0.1	278
20240528_0703	0.1	283
20240528_0713	0.1	161
20240528_0723	0.1	263
20240528_0733	0.1	231
20240528_0743	0.1	189
20240528_0753	0.1	152
20240528_0803	0.1	72
20240528_0813	0.1	41
20240528_0823	0.1	131
20240528_0833	0.1	163
20240528_0843	0.1	242
20240528_0853	0.1	215
20240528_0903	0.1	353
20240528_0913	0.1	74
20240528_0923	0.1	14
20240528_0933	0.1	216
20240528_0943	0.1	117
20240528_0953	0.1	323
20240528_1003	0.1	81
20240528_1013	0.1	206
20240528_1023	0.1	131
20240528_1033	0.1	250
20240528_1043	0.1	240
20240528_1053	0.1	151
20240528_1103	0.1	170
20240528_1113	0.1	206
20240528_1123	0.1	193
20240528_1133	0.1	95
20240528_1143	0.2	223
20240528_1153	0.1	161

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240528_1203	0.1	285
20240528_1213	0.1	247
20240528_1223	0.1	333
20240528_1233	0.1	66
20240528_1243	0.1	134
20240528_1253	0.1	39
20240528_1303	0.1	168
20240528_1313	0.1	108
20240528_1323	0.1	328
20240528_1333	1.1	65
20240528_1343	0.1	324
20240528_1353	0.1	317
20240528_1403	0.9	157
20240528_1413	0.3	82
20240528_1423	0.1	61
20240528_1433	0.1	133
20240528_1443	0.1	132
20240528_1453	0.1	292
20240528_1503	0.1	10
20240528_1513	0.1	255
20240528_1523	0.1	233
20240528_1533	0.1	118
20240528_1543	0.1	216
20240528_1553	0.2	349
20240528_1603	0.1	342
20240528_1613	0.1	10
20240528_1623	0.1	48
20240528_1633	0.1	5
20240528_1643	1.1	158
20240528_1653	0.1	36
20240528_1703	0.4	294
20240528_1713	0.2	10
20240528_1723	0.8	137
20240528_1733	0.1	128
20240528_1743	0.1	16
20240528_1753	0.1	140
20240528_1803	0.1	168
20240528_1813	0.1	96
20240528_1823	0.7	109
20240528_1833	0.1	120
20240528_1843	0.1	168
20240528_1853	0.1	295
20240528_1903	0.5	310
20240528_1913	1.4	80
20240528_1923	0.1	97
20240528_1933	0.6	89
20240528_1943	0.2	165
20240528_1953	2.6	48
20240528_2003	1.3	23
20240528_2013	1.9	8
20240528_2023	4	49
20240528_2033	1.1	98
20240528_2043	2.7	30
20240528_2053	13	68
20240528_2103	2.3	37
20240528_2113	0.8	89
20240528_2123	6.4	36
20240528_2133	4.3	333
20240528_2143	4.6	63
20240528_2153	2.2	79
20240528_2203	0.3	45
20240528_2213	2.3	279
20240528_2223	6.3	65
20240528_2233	6.8	58
20240528_2243	5.7	158
20240528_2253	0.1	277
20240528_2303	4.7	53
20240528_2313	3.2	32
20240528_2323	3.8	56
20240528_2333	0.7	350
20240528_2343	0.8	38
20240528_2353	1.6	131

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240529_0003	0.4	68
20240529_0013	0.4	52
20240529_0023	4.4	4
20240529_0033	0.2	88
20240529_0043	4.7	25
20240529_0053	2.3	80
20240529_0103	7.9	31
20240529_0113	2.5	43
20240529_0123	7.6	15
20240529_0133	1.5	249
20240529_0143	1.1	99
20240529_0153	3	36
20240529_0203	1.1	80
20240529_0213	0.2	165
20240529_0223	1.4	125
20240529_0233	0.1	344
20240529_0243	0.3	93
20240529_0253	0.6	198
20240529_0303	5.9	48
20240529_0313	0.1	56
20240529_0323	3.7	29
20240529_0333	4	93
20240529_0343	0.9	101
20240529_0353	5.5	78
20240529_0403	2.3	46
20240529_0413	0.2	184
20240529_0423	1.8	47
20240529_0433	1.8	189
20240529_0443	4.8	22
20240529_0453	4.9	36
20240529_0503	1.8	119
20240529_0513	0.4	118
20240529_0523	3.4	66
20240529_0533	0.1	230
20240529_0543	8	117
20240529_0553	6.5	86
20240529_0603	0.1	28
20240529_0613	10.5	311
20240529_0623	4.9	338
20240529_0633	2.1	87
20240529_0643	0.3	138
20240529_0653	0.2	25
20240529_0703	0.2	260
20240529_0713	3.4	349
20240529_0723	1.5	3
20240529_0733	4	4
20240529_0743	0.2	216
20240529_0753	1.9	157
20240529_0803	0.9	273
20240529_0813	0.1	49
20240529_0823	5	23
20240529_0833	1.7	38
20240529_0843	3.2	141
20240529_0853	0.1	90
20240529_0903	2.3	117
20240529_0913	1.7	47
20240529_0923	0.3	336
20240529_0933	0.3	38
20240529_0943	0.8	163
20240529_0953	3.9	132
20240529_1003	6.7	106
20240529_1013	0.6	117
20240529_1023	1.3	129
20240529_1033	1.4	43
20240529_1043	0.1	338
20240529_1053	0.3	124
20240529_1103	0.1	129
20240529_1113	3.2	5
20240529_1123	0.8	170
20240529_1133	2.2	307
20240529_1143	0.3	120
20240529_1153	0.1	314

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240529_1203	1.9	350
20240529_1213	1.8	8
20240529_1223	0.6	329
20240529_1233	1.2	14
20240529_1243	0.3	319
20240529_1253	0.1	13
20240529_1303	2.5	336
20240529_1313	1.8	-1
20240529_1323	0.1	288
20240529_1333	1.3	125
20240529_1343	2.7	28
20240529_1353	1.1	137
20240529_1403	2.3	70
20240529_1413	0.5	340
20240529_1423	2.4	156
20240529_1433	3	353
20240529_1443	0.7	75
20240529_1453	1.6	104
20240529_1503	1.3	287
20240529_1513	0.6	106
20240529_1523	4.5	76
20240529_1533	0.1	15
20240529_1543	0.1	221
20240529_1553	0.6	91
20240529_1603	1	180
20240529_1613	0.9	94
20240529_1623	0.6	352
20240529_1633	0.2	95
20240529_1643	0.8	352
20240529_1653	0.6	334
20240529_1703	1.9	33
20240529_1713	0.2	89
20240529_1723	0.2	335
20240529_1733	0.5	119
20240529_1743	2.5	57
20240529_1753	1.6	140
20240529_1803	1.2	73
20240529_1813	0.4	51
20240529_1823	0.5	67
20240529_1833	0.1	233
20240529_1843	0.1	133
20240529_1853	0.2	314
20240529_1903	0.1	111
20240529_1913	0.3	109
20240529_1923	0.2	81
20240529_1933	0.5	53
20240529_1943	0.1	10
20240529_1953	0.1	69
20240529_2003	0.2	330
20240529_2013	0.1	324
20240529_2023	0.2	121
20240529_2033	0.1	6
20240529_2043	0.8	310
20240529_2053	0.3	79
20240529_2103	0.1	62
20240529_2113	0.1	133
20240529_2123	0.3	65
20240529_2133	0.2	133
20240529_2143	0.1	342
20240529_2153	0.1	36
20240529_2203	0.9	161
20240529_2213	0.1	36
20240529_2223	0.2	64
20240529_2233	2.1	180
20240529_2243	0.1	97
20240529_2253	0.1	219
20240529_2303	0.3	4
20240529_2313	1.2	119
20240529_2323	1.2	349
20240529_2333	0.1	61
20240529_2343	0.4	93
20240529_2353	0.1	197

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240530_0003	0.1	35
20240530_0013	1	143
20240530_0023	0.3	46
20240530_0033	0.2	31
20240530_0043	0.4	176
20240530_0053	0.2	40
20240530_0103	0.5	84
20240530_0113	0.5	338
20240530_0123	0.1	352
20240530_0133	0.2	60
20240530_0143	0.1	153
20240530_0153	0.5	8
20240530_0203	0.3	31
20240530_0213	0.1	173
20240530_0223	0.2	108
20240530_0233	0.6	344
20240530_0243	0.1	219
20240530_0253	0.8	62
20240530_0303	0.1	251
20240530_0313	0.2	134
20240530_0323	0.9	67
20240530_0333	0.1	97
20240530_0343	0.1	60
20240530_0353	0.4	105
20240530_0403	0.2	64
20240530_0413	0.1	159
20240530_0423	0.1	79
20240530_0433	0.6	175
20240530_0443	0.9	161
20240530_0453	0.1	14
20240530_0503	0.1	241
20240530_0513	0.6	47
20240530_0523	0.6	119
20240530_0533	0.2	112
20240530_0543	0.3	100
20240530_0553	0.5	139
20240530_0603	2.7	20
20240530_0613	2.6	116
20240530_0623	3.2	31
20240530_0633	4.6	67
20240530_0643	9.9	53
20240530_0653	5.1	345
20240530_0703	2	107
20240530_0713	2.2	39
20240530_0723	1.3	78
20240530_0733	2.3	0
20240530_0743	2.4	45
20240530_0753	2	306
20240530_0803	0.1	0
20240530_0813	0.9	315
20240530_0823	0.5	133
20240530_0833	0.4	330
20240530_0843	1.8	343
20240530_0853	0.1	334
20240530_0903	4.8	32
20240530_0913	0.6	67
20240530_0923	2.4	338
20240530_0933	1.7	13
20240530_0943	5.5	41
20240530_0953	1.6	334
20240530_1003	0.3	246
20240530_1013	0.3	35
20240530_1023	1.7	320
20240530_1033	0.2	160
20240530_1043	5.9	62
20240530_1053	1.2	43
20240530_1103	0.3	89
20240530_1113	0.1	196
20240530_1123	0.7	344
20240530_1133	1.1	30
20240530_1143	2.9	17
20240530_1153	0.9	130

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240530_1203	0.6	12
20240530_1213	0.2	19
20240530_1223	4.2	51
20240530_1233	0.3	157
20240530_1243	0.1	71
20240530_1253	0.1	340
20240530_1303	0.2	135
20240530_1313	0.9	41
20240530_1323	0.3	345
20240530_1333	0.1	14
20240530_1343	0.1	206
20240530_1353	0.2	48
20240530_1403	0.1	264
20240530_1413	0.1	353
20240530_1423	0.1	280
20240530_1433	0.7	39
20240530_1443	0.4	47
20240530_1453	2.1	38
20240530_1503	0.1	37
20240530_1513	0.3	93
20240530_1523	0.1	225
20240530_1533	0.1	217
20240530_1543	0.3	131
20240530_1553	0.1	317
20240530_1603	0.1	264
20240530_1613	0.4	165
20240530_1623	0.1	101
20240530_1633	0.1	254
20240530_1643	0.1	128
20240530_1653	0.1	292
20240530_1703	0.1	248
20240530_1713	1.8	133
20240530_1723	0.3	354
20240530_1733	0.7	107
20240530_1743	0.5	106
20240530_1753	0.6	153
20240530_1803	0.1	291
20240530_1813	0.2	53
20240530_1823	0.1	242
20240530_1833	0.2	141
20240530_1843	0.2	130
20240530_1853	0.5	140
20240530_1903	0.6	108
20240530_1913	0.9	67
20240530_1923	0.1	260
20240530_1933	0.4	141
20240530_1943	0.5	126
20240530_1953	0.2	145
20240530_2003	0.1	104
20240530_2013	0.6	61
20240530_2023	0.1	316
20240530_2033	0.1	344
20240530_2043	0.1	182
20240530_2053	0.1	112
20240530_2103	0.2	90
20240530_2113	0.3	343
20240530_2123	0.1	9
20240530_2133	0.8	159
20240530_2143	2	135
20240530_2153	0.4	140
20240530_2203	0.1	127
20240530_2213	0.1	126
20240530_2223	0.1	255
20240530_2233	0.1	222
20240530_2243	0.1	122
20240530_2253	1.5	54
20240530_2303	0.1	50
20240530_2313	0.1	173
20240530_2323	0.1	63
20240530_2333	0.1	138
20240530_2343	0.1	69
20240530_2353	0.1	282

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240531_0003	0.8	21
20240531_0013	0.1	35
20240531_0023	0.2	51
20240531_0033	0.1	51
20240531_0043	0.3	117
20240531_0053	0.6	30
20240531_0103	1.6	51
20240531_0113	0.6	26
20240531_0123	0.1	94
20240531_0133	0.1	54
20240531_0143	0.7	66
20240531_0153	0.6	147
20240531_0203	0.4	333
20240531_0213	0.1	181
20240531_0223	0.1	241
20240531_0233	0.5	97
20240531_0243	0.2	204
20240531_0253	0.1	176
20240531_0303	0.8	125
20240531_0313	0.5	32
20240531_0323	0.2	88
20240531_0333	0.2	98
20240531_0343	0.1	191
20240531_0353	1.4	342
20240531_0403	0.1	130
20240531_0413	0.2	36
20240531_0423	0.3	134
20240531_0433	0.3	10
20240531_0443	0.2	96
20240531_0453	0.2	328
20240531_0503	2.7	52
20240531_0513	0.1	68
20240531_0523	1.2	88
20240531_0533	0.1	59
20240531_0543	0.2	58
20240531_0553	0.1	50
20240531_0603	0.1	53
20240531_0613	0.1	222
20240531_0623	2.6	100
20240531_0633	0.3	47
20240531_0643	3.8	149
20240531_0653	0.5	214
20240531_0703	0.6	134
20240531_0713	0.1	343
20240531_0723	0.3	216
20240531_0733	0.1	174
20240531_0743	0.1	105
20240531_0753	2	133
20240531_0803	0.1	157
20240531_0813	0.1	274
20240531_0823	0.1	139
20240531_0833	0.8	9
20240531_0843	0.1	292
20240531_0853	0.5	35
20240531_0903	0.1	139
20240531_0913	0.4	76
20240531_0923	0.6	89
20240531_0933	0.5	167
20240531_0943	0.7	120
20240531_0953	0.2	323
20240531_1003	1.1	59
20240531_1013	1.7	144
20240531_1023	0.1	152
20240531_1033	0.8	59
20240531_1043	1.1	13
20240531_1053	0.1	218
20240531_1103	0.1	330
20240531_1113	0.2	157
20240531_1123	0.1	347
20240531_1133	0.1	311
20240531_1143	0.1	307
20240531_1153	0.1	86

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20240531_1203	0.3	266
20240531_1213	0.6	112
20240531_1223	0.3	22
20240531_1233	0.1	188
20240531_1243	0.4	0
20240531_1253	1.1	160
20240531_1303	0.5	342
20240531_1313	1.7	113
20240531_1323	0.2	327
20240531_1333	0.6	339
20240531_1343	2.3	341
20240531_1353	1.9	125
20240531_1403	0.1	344
20240531_1413	1.1	351
20240531_1423	0.1	132
20240531_1433	2.2	127
20240531_1443	3.3	134
20240531_1453	0.1	58
20240531_1503	0.1	339
20240531_1513	0.1	9
20240531_1523	0.1	138
20240531_1533	0.1	233
20240531_1543	0.1	322
20240531_1553	0.1	282
20240531_1603	0.1	148
20240531_1613	0.1	196
20240531_1623	0.1	347
20240531_1633	0.1	324
20240531_1643	0.1	333
20240531_1653	0.1	17
20240531_1703	0.1	120
20240531_1713	1.7	135
20240531_1723	0.1	53
20240531_1733	0.1	135
20240531_1743	0.7	113
20240531_1753	0.1	92
20240531_1803	0.1	141
20240531_1813	0.1	58
20240531_1823	0.1	339
20240531_1833	0.1	34
20240531_1843	0.1	147
20240531_1853	0.1	50
20240531_1903	0.1	135
20240531_1913	0.2	4
20240531_1923	0.1	287
20240531_1933	0.3	296
20240531_1943	0.1	341
20240531_1953	0.3	53
20240531_2003	0.1	275
20240531_2013	0.3	13
20240531_2023	0.9	347
20240531_2033	0.1	0
20240531_2043	0.1	109
20240531_2053	0.2	140
20240531_2103	0.8	99
20240531_2113	0.1	119
20240531_2123	0.7	152
20240531_2133	0.1	243
20240531_2143	0.1	263
20240531_2153	2.6	81
20240531_2203	1.1	337
20240531_2213	0.1	174
20240531_2223	0.1	98
20240531_2233	0.7	86
20240531_2243	0.1	160
20240531_2253	0.1	142
20240531_2303	0.1	113
20240531_2313	0.2	103
20240531_2323	0.1	324
20240531_2333	1.1	117
20240531_2343	2	165
20240531_2353	0.1	61

Appendix J Waste Flow Table

Waste Flow Table

Month	Total Quantity Generated	Total Quantities of Inert C&D Materials to be Generated from the Contract					Total Quantities of Recyclables Generation				Total Quantities of C&D Materials to be Generated from the Contract		
		Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in Other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper / Cardboard Packaging	Plastics	Yard Waste (to Y-Park)	Chemical Waste	General Refuse	Others, e.g. non-recyclable yard waste
	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in '000L)	(in tonne)	(in tonne)
Dec-22	84.77	0	0	0	0	0	0	0	0	11.49	0	7.53	65.75
Jan-23	24.51	0	0	0	0	0	0	0	0	0	0	24.51	0
Feb-23	506.45	0	0	0	0	0	0	0	0	3.16	0	5.85	497.44
Mar-23	9,581.15	0	0	9,187	0	0	0	0	0	3.69	0	6.96	383.5
Apr-23	18,532.07	0	0	18,466	0	0	0	0	0	1.97	0	5.81	58.29
May-23	28,889.61	0	0	28,473	0	0	0	0	0	0	0	7.45	409.16
Jun-23	11,574.89	0	0	11,211	0	0	0	0	0	2.38	0	14.69	346.82
Jul-23	50,595.49	0	0	50,307	0	0	0	0	0	0	0	25.54	262.95
Aug-23	63,178.52	0	0	63,076	0	0	0	0	0	0	0	30.77	71.75
Sep-23	42,709.75	0	0	42,676	0	0	0	0	0	0	0	33.38	0
Oct-23	55,551.68	0	0	55,405	0	0	0	0	0	2.56	0	28.05	116.07
Nov-23	76,127.24	0	0	73,352	0	2629.37	0	0	0	0	0	35.13	110.74
Dec-23	63,389.25	0	0	57,681	0	5296.17	0	0	0	2.48	0	34.26	375.34
Jan-24	125,840.50	0	0	125,010	0	0	0	0	0	5.59	0	71.13	753.78
Feb-24	108,176.42	0	0	106,218	0	1771.16	0	0	0	0	0	53.76	133.17
Mar-24	70,683.04	0	0	68,989	0	1324.13	0	0	0	3.26	0	108.43	258.01
Apr-24	77,385.12	0	0	75,092	0	1883.87	0	0	0	0	0	112.54	296.71
May-24	45,429.31	0	1396.88	42,809	0	1022.68	0	0	0	0	0	90.72	110.1
Total	725,445.34	0.00	0.00	710,052	0.00	11,020.83	0.00	0.00	0.00	36.58	0.00	493.25	3,842.77

Note:

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

Appendix K Joint Environmental Site Inspection Records

Follow up action for previous Site Inspection:

1. 29 April 2024 Observation 1 – The exposed slope surface at Portion E4 was covered by tarpaulin sheets.
2. 29 April 2024 Observation 2 – The chemical containers at Portion E3-1 were removed.

Observation(s):

Nil

Reminder(s):

1. The Contractor has been reminded that the precautions should be taken in accordance with Appendix A2 of ProPECC PN 1/94.

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

Nil

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/		
Name:	Joan Lo	/	Matt Choy/Kristy Wong/ Kyrie Wong	~~Sylvia Ho/~~ Jackie Tam
Date:	6 May 2024	/	6 May 2024	6 May 2024

Follow up action for previous Site Inspection:

1. 22 April 2024 Observation 1 – The maintenance work of silt fence was conducted, and the effective silt fence was proved at SBA to prevent sediment from entering the surface water drainage system.
2. 8 April 2024 Observation 2 – The section between the site entrance / exit where located from main access road to Portion E3-1 was paved with hardcores materials. The wheel washing facilities with high pressure water jet was provided at the Portion E3-1 entrance / exit.

Observation(s):

1. The activity of handing of bulk cement or dry PFA shall be carried out at a totally enclosed system or facility at Portion B2-E1. (Item: B20)
2. General waste and C&D waste on the floor is observed at Portion A and D. (Item: E1, E2b and E6c)

Reminder(s)

1. The Contractor has been reminded that the precautions should be taken in accordance with Appendix A2 of ProPECC PN 1/94.
2. The Contractor has been reminded that the exposed slope surfaces at Portion B2-E1 should be covered by tarpaulin.

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

1. The contractor has been advised that the activity of handing of bulk cement or dry PFA carried out in a totally enclosed system ot facility or placed in an area shelted on the top and 3 sides to prevent dust dispersion.
2. The contractor has been reminded to provide and arrange sufficient waste skip and enclosed bins for waste collection and storage at Portion A and D.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/		
Name:	Joan Lo	/	~~Matt Choy/Kristy Wong~~/ Kyrie Wong	~~Sylvia Ho~~/ Jackie Tam
Date:	13 May 2024	/	13 May 2024	13 May 2024

Follow up action for previous Site Inspection:

1. 13 May Observation 1 – Storage of bulk cement or dry PFA was covered with an impervious sheet, and no activity of handling of bulk cement or dry PFA was being conducted currently at Portion B2-E1.
2. 13 May Observation 2 – The accumulated of general waste and C&D waste were removed at Portion A & D, and waste skip for C&D waste collection and storage was provided at Portion A.

Observation(s):

1. Rubbish bins shall be covered and enclosed, and the waste skip shall be placed and designed in a flat area at Portion A. (Item D13 & E1)
2. Oil drum and chemical container at Portion A without the drip tray and chemical label in chinses and English is observed. (Item E16 & E18)

Reminder(s)

1. The Contractor has been reminded that the precautions should be taken in accordance with Appendix A2 of ProPECC PN 1/94.
2. The Contractor has been reminded that the exposed slope surface at Portion A should be covered with green netting after the excavation activity in order to reduce visual impact.

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

1. The Contractor has been reminded that rubbish bin for general waste collection should be covered and enclosed, and the waste skip for C&D waste collection and storage should be placed properly in the flat area to prevent water stagnation at Portion A.
2. The Contractor has been recommended to provide chemical drip trays for chemical storage at Portion A to prevent chemical leakage and land contamination, and to provide chemical labels in Chinese and English.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:				
Name:	Joan Lo	Zho Hung	Matt Choy/~~Kristy Wong/ Kyrie Wong~~	~~Sylvia Ho/ Jackie Tam~~ Maring Tam
Date:	20 May 2024	20 May 2024	20 May 2024	20 May 2024

Follow up action for previous Site Inspection:

1. 18 March 2024 Observation 1 – An efficient channel and pump were installed and provided at Portion A to properly direct stormwater to silt removal facility.
2. 13 May 2024 Observation 1 – The area shelted on the top and 3 sides during the activity of handling of bulk cement or dry PFA was provided at Portion B2-E1.
3. 20 May 2024 Observation 1 – Rubbish bin was covered, and the waste skip was placed and designed in a flat area at Portion A.
4. 20 May 2024 Observation 2 – The chemical container and oil drum were placed in the drip tray at Portion A, and the chemical label was affixed on the oil drum in Chinese and English.

Observation(s):

1. Working area at Portion E3 is dry and fugitive dust is observed. (Item: B4)
2. The generator at Portion B2-E1 without NRMM label is observed. (Item: B5)
3. The general waste at Portion E4 shall be collected and stored in the enclosed rubbish bin. (Item: E1)
4. The chemical container without drip tray is observed at Portion B2-E1.(Item: E16)

Reminder(s)

1. The Contractor has been reminded that the precautions should be taken in accordance with Appendix A2 of ProPECC PN 1/94.
2. The Contractor has been reminded that the temporary drainage system e.g. channel and earth bund should be provided and protected properly at Portion E4 to direct stormwater to slit removal facility.

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

1. The Contractor has been reminded to arrange for watering regularly at the work sites of Portion E3 to ensure the work sites are wetted and to prevent dust dispersion.
2. The Contractor has been recommended that NRMM label should be fixed and displayed on the generator at Portion B2-E1.
3. The Contractor has been reminded to provide sufficient enclosed rubbish bin for general waste collection and storage at Portion E4.
4. The Contractor has been reminded that the chemical container should be placed in the drip tray properly at Portion B2-E1to prevent chemical leakage and land contamination.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/		
Name:	Joan Lo	/	Matt Choy/Kristy Wong/ Kyrie Wong	~~Sylvia Ho~~/ Jackie Tam/ ~~Marus Tam~~
Date:	27 May 2024	/	27 May 2024	27 May 2024

Appendix L Environmental Mitigation Implementation Schedule (EMIS)

EIA Ref.	EM&A Log Ref.	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Air Quality								
S3.8.1	S3.1.8	B7 – B36	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation.	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	Entire NENT Landfill Extension site	To control the dust impact to within the criteria of EIA Report (Register No. AEIAR-111/2007)	✓
		B4, B15 & B18	• Dust emission from construction vehicle movement is confined within the worksites area.					✓
		B11 – B12	• Watering facilities will be provided at every designated vehicular exit point.					Vehicle washing facilities provided at vehicular exit point in Portion A, B1-2, D, E3-1 & E4
		-	• Good site practice is recommended during construction phase.					✓
Construction Noise								
S4	S4.9	C1	1) Use of good site practices to limit noise emissions by considering the following: (a) Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme;	Control construction airborne noise by means of good site practices	Contractor	Entire construction site	Noise Control Ordinance	✓
		C2	(b) Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;					✓
		C3	(c) Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs;					✓
		C4	(d) Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;					N/A
		C5	(e) Mobile plant should be sited as far away from NSRs as possible and practicable;					✓
		C6	(f) Material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.					✓
S4	S4.9	C11 – C13	2) Select “Quiet plants” which comply with the BS 5228 Part 1 or TM standards.	Reduce the noise levels of plant items	Contractor	Entire construction site	Noise Control Ordinance & its TM Annex 5, TM-EIA	✓
Construction Runoff								
S5.8.1	S5.2.1	D1	<u>Construction on Site Runoff</u> • (a) At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. (b) Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities.	Control construction runoff and erosion from site surface, drainage channel, stockpiles, wheel washing facilities, etc to minimize water quality during construction stage	Contractor	Entire Construction site	ProPECC PN 1/94 Water Pollution Control Ordinance	(a) ✓ (b) ✓
		D2	(a) The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. (b) Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a silt/sediment trap. (c) The sediment/silt traps should be incorporated in the permanent drainage channels to enhance deposition rates.					(a) ✓ (b) ✓ (c) ✓
		D3	The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silts and sediment traps should be 5 minutes under maximum flow conditions.					✓
		D4	(a) Construction works should be programmed to minimize surface excavation works during the rainy seasons (April to September). (b) All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. (c) If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.					(a) ✓ (b) ✓ (c) ✓

Remarks:

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

EIA Ref.	EM&A Log Ref	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Construction Runoff (Cont'd)								
S5.8.1	S5.2.1	D5	• (a) The overall slope of the site should be kept to a minimum to reduce the erosive potential of surface water flows, and (b) all traffic areas and access roads protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during prolonged periods of inclement weather and the reduction of surface sheet flows.	Control construction runoff and erosion from site surface, drainage channel, stockpiles, wheel washing facilities, etc to minimize water quality during construction stage	Contractor	Entire Construction site	ProPECC PN 1/94 DSD Technical Circular TC01/2017 Water Pollution Control Ordinance	(a) ✓ (b) ✓
		D6	• (a) All drainage facilities and erosion and sediment control structures should be regularly inspected and (b) maintained to ensure proper and efficient operation at all times and particularly following rainstorms. (c) Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas.					(a) ✓ (b) ✓ (c) ✓
		D7	• (a) Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. (b) Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.					(a) ✓ (b) ✓
		D8	• Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50 m^3 should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.					✓
		D9	• (a) Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as (b) to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers.					(a) ✓ (b) ✓
		D10	• Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silly surface runoff during storm events, especially for areas located near steep slopes.					✓
		D11	• (a) All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. (b) An adequately designed and sited wheel washing bay should be provided at every construction site exit. (c) Wash-water should have sand and silt settled out and removed at least on a weekly basis (d) to ensure the continued efficiency of the process. (e) The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silly water to public roads and drains.					(a) ✓ (b) ✓ (c) ✓ (d) ✓ (e) ✓
		D12	• (a) Oil interceptors should be provided in the site drainage system downstream of any oil/fuel pollution sources. (b) The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. (c) A bypass should be provided for the oil interceptors to prevent flushing during heavy rain.					(a) N/A (b) N/A (c) N/A
		D13	• Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts. Requirements for solid waste management are detailed in Section 6 of this Report.					✓
		D14	• All fuel tanks and storage areas should be provided with docks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearby.					✓
		D15	• To prevent pollution risks arising from works area (waste reception area) and haul roads, intercepting bund or barrier along the roadside should be constructed.					✓
		D19	<u>Sewage Effluent from Workforce</u> • (a) Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. (b) A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.					(a) ✓ (b) ✓
		D20	• Notices will be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the Project.					N/A

Remarks:

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

EIA Ref.	EM&A Log Ref	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Construction Runoff (Cont'd)								
S5.8.1	S5.2.1	D19	<u>Sewage Effluent from Workforce</u> • (a) Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. (b) A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	Control sewage effluent arising from the sanitary facilities provided for the on-site construction workforce	Contractor	On-site sanitary facilities	ProPECC PN 1/94 DSD Technical Circular TC01/2017 Water Pollution Control Ordinance Waste Disposal Ordinance	(a) ✓ (b) ✓
		D20	• Notices will be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the Project.					N/A
		-	Regular environmental audit on the construction site can provide an effective control of any malpractices and can achieve continual improvement of environmental performance on site.					✓
S5.8.1	S5.2.1	D21	<u>Accidental Spillage of Chemical</u> • (a) Any service workshop and maintenance facilities shall be located within a bunded area, and sumps and oil interceptors shall be provided. (b) Maintenance of equipment involving activities with potential for leakage and spillage will only be undertaken within the areas.	Control of chemical leakage	Contractor	Service workshop and maintenance facilities	ProPECC PN 1/94 Water Pollution Control Ordinance Waste Disposal Ordinance	(a) N/A (b) N/A
Erosion Control Measures								
S5.8.2	S5.2.2	-	<u>Erosion Control /Measures</u> a. Preserve Natural Vegetation This Best Management Practices will involve preserving natural vegetation to the greatest extent possible during the construction process. and after construction where appropriate. Maintaining natural vegetation is the most effective and inexpensive form of erosion prevention control.	Erosion control	Contractor	Drainage system	ProPECC PN 1/94 Water Pollution Control Ordinance	✓
		-	b. Provision of Buffer Zone A buffer zone consists of an undisturbed area or strip of natural vegetation or an established suitable planting adjacent to a disturbed area that reduces erosion and runoff. The rooted vegetation holds soils acts as a wind break and filters runoff that may leave the site.					✓
		-	c. Seeding (Temporary/Permanent) A well-established vegetative cover is one of the most effective methods of reducing erosion. Vegetation should be established on construction sites as the slopes are finished, rather than waiting until all the grading is complete. Besides, Hydroseeding will be applied on the surface of stockpiled soil and on temporary soil covers for inactive tipping areas to prevent soil erosion during rainy season.					✓
		-	d. Ground Cover Ground Cover is a protective layer of straw or other suitable material applied to the soil surface. Straw mulch and/or hydromulch are also used in conjunction with seeding of critical areas for the establishment of temporary or permanent vegetation. Ground cover provides immediate temporary protection from erosion. Mulch also enhances plant establishment by conserving moisture, holding fertilizer, seed, and topsoil in place, and moderating soil temperatures.					To be implemented
		-	e. Hydraulic Application Hydraulic application is a mechanical method of applying erosion control materials to bare soil in order to establish erosion-resistant vegetation on disturbed areas and critical slopes. By using hydraulic equipment, soil amendments, mulch, tackifying agents, Bonded Fiber Matrix (BFM) and liquid co-polymers can be uniformly broadcast, as homogenous slurry, onto the soil. These erosion and dust control materials can often be applied in one operation.					To be implemented
			f. Sod Establishes permanent turf for immediate erosion protection and stabilizes drainageways.					✓
			g. Matting There are numerous erosion control products available that can be described in various ways, such as matting, blankets, fabric and nets. These products are referred as matting. A wide range of materials and combination of materials are used to produce matting including, but not limited to: straw, jute, wood fiber, coir (coconut fiber), plastic netting, and Bonded Fiber Matrix. The selection of matting materials for a site can make a significant difference in the effectiveness of the Best Management Practices.					✓

Remarks:

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

EIA Ref.	EM&A Log Ref	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Erosion Control Measures (Cont'd)								
S5.8.2	S5.2.2		h. Plastic Sheeting Plastic Sheeting will provide immediate protection to slopes and stockpiles. However, it has been known to transfer erosion problems because water will sheet flow off the plastic at high velocity. This is usually attributable to poor application, installation and maintenance.	Erosion control	Contractor	Drainage system	ProPECC PN 1/94 Water Pollution Control Ordinance	✓
		-	i. Dust Control Dust Control is one preventative measure to minimize the wind transport of soil, prevent traffic hazards and reduce sediment transported by wind and deposited in water resources.					✓
Surface Water Drainage System								
S5.8.2	S5.2.2	D22	• (a) Temporary surface water drainage system will be provided to manage runoff during construction and operation. (b) This system will consist of channels as constructed around the perimeter of the site area. (c) This system will collect surface water from the areas of higher elevations to those of lower elevations and ultimately to the point of discharge. (d) Erosion will therefore be minimised.	Surface Water Management/ Control run off	Contractor	Surface water system Construction	Water Pollution Control Ordinance TM-water	(a) ✓ (b) ✓ (c) ✓ (d) ✓
		D23	• (a) The temporary surface water drainage system will include the use of a silt fence around the soil stockpile areas to prevent sediment from entering the system. (b) Regular cleaning will be carried out to prevent blockage of the passage of water flow in silt fence.					(a) ✓ (b) ✓
		-	• Intermediate drainage system will be installed for filled cell/phase. The major purpose of the intermediate drainage system is to prevent the clean surface water run-off from the filled phases coming into contact with the waste mass in active cell and to prevent excessive surface water infiltration through the intermediate cover, thus contribute to increasing volume of leachate. The intermediate drainage system will collect the clean surface water run-off and divert it to the permanent discharge channels connected to the public drainage system.					N/A
		-	• In addition, surface flow from the haul road (especially near the wheel washing facility) will be collected to a dry weather flow interceptor and conveyed to the on-site leachate treatment plant for further treatment.					N/A
Waste Management								
S6	WM1	-	<u>C&D Materials</u> • Implement proper waste management measures during construction phase as stipulated in the Environmental Management Plan (EMP) in accordance with the ETWB TC(W) No. 19/2005 Environmental Management in Construction Sites.	Good site practice to minimise C&D waste generation and reuse/recycle all C&D on-site as far as possible	Contractor	Entire construction site	Waste Disposal Ordinance ETWB TC(W) No. 19/2005 DEVB TC(W) No. 6/2010	✓
		-	• Implement a trip-ticket system to ensure that the movement of C&D materials are properly documented and verified in accordance with DEVB TC(W) No. 6/2010. Copies/counterfoils from trip-tickets (with quantities of C&D Materials off-site) should be kept for record purposes.					✓
		-	• Appropriate waste management should be implemented in accordance with the ETWB TC(W) No. 19/2005.					✓
		E4	• (a) Make provisions in Contract documents to allow and promote the use of recycled aggregates where appropriate. Ensure material balance in terms of excavated C&D materials in the design of NENT landfill extension project. (b) The contract specifications should specify no excavated materials should be removed from the landfill extension site, but should be fully reused.					(a) ✓ (b) ✓
		E5	• Careful design, planning and good site management to minimise over-ordering and waste materials such as concrete, mortars and cement grouts. (a)(b) The design of formwork should maximise the use of standard wooden panels so that high reuse levels can be achieved. (c) Alternatives such as steel formwork or plastic fencing should be considered to increase the potential for reuse.					(a) ✓ (b) ✓ (c) ✓
		E6	• (a) The Contractor should recycle as much as possible the C&D waste on-site through proper waste segregation on-site. (b) Concrete and masonry should be used as general fill and steel reinforcement bars can be used by scrap steel mills. (c) Proper areas should be designated for waste segregation and storage wherever site conditions permit. (d) Maximise the use of reusable steel formwork to reduce the amount of C&D material.					(a) ✓ (b) ✓ (c) ✓ (d) ✓

Remarks:

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

EIA Ref.	EM&A Log Ref	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Waste Management (Cont'd)								
S6	WM1	E7	• (a) Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement. On-site sorting and segregation facility of all type of wastes is considered as one of the best practice in waste management and hence, should be implemented in all projects generating construction waste. (b) The sorted public fill and C&D waste should be properly reused.	Good site practice to minimise C&D waste generation and reuse/recycle all C&D on-site as far as possible	Contractor	Entire construction site	Waste Disposal Ordinance ETWB TC(W) No. 19/2005 DEVB TC(W) No. 6/2010	(a) ✓ (b) ✓
		E8	• (a) Excavated slope, stockpiled material and bund walls should be covered by tarpaulin until used in order to prevent wind-blown dust during dry weather, and to reduce muddy runoff during wet weather. (b)(c) Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers					(a) ✓ (b) ✓ (c) ✓
		E9	• If any topsoil-like materials need to be stockpiled for any length of time, consideration should be given to hydroseeding of the topsoil on the stockpile to improve its visual appearance and prevent soil erosion.					✓
		E10	• Nomination of approved personnel to be responsible for good site practices and making arrangements for collection of all wastes generated on-site and effective disposal.					✓
		E11	• Training of site personnel for cleanliness, proper waste management procedures including chemical waste handling, and waste reduction, reuse and recycling concepts.					✓
		E12	• Regular cleaning and maintenance programme systems, sumps and oil interceptors.					✓
		E13	• (a) Prior to disposal of C&D waste, wood, steel and other metals should be separated for re-use and/or recycling to minimise the quantity of waste to be disposed of to landfill. (b)(c) Proper storage and site practices should be implemented to minimise the potential for damage or contamination of construction materials.					(a) ✓ (b) ✓ (c) N/A
			• Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. Minimise excessive ordering of concrete, mortars and cement grout by doing careful check before ordering.					✓
S6	WM2	E16 – E23	<u>Chemical Waste</u> • Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	Ensure proper disposal of chemical waste generated on-site to minimise the associated hazards on human health and environment	Contractor	Entire construction site	Waste Disposal (Chemical Waste) General Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Waste	✓
		-	• Plant/equipment maintenance schedule should be designed to optimise maintenance effectiveness and to minimise the generation of chemical wastes. Where possible, chemical wastes (e.g. waste lube oil) should be recycled by licensed treatment facilities					✓
		E17 & E18	• Containers used for storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed; have a capacity of less than 450 liters unless the specification has been approved by the EPD. Display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Regulation.					✓
		E19	• (a) The storage area for chemical wastes should be clearly labelled and used solely for storage of chemical waste, (b) enclosed with at least 3 sides, having an impermeable floor and bund of sufficient capacity to accommodate 110% of volume of the largest container or 20 % of total volume of waste stored in that area, (c)(d) whichever is the greatest, having adequate ventilation, being covered to prevent rainfall entering, and being arranged so that incompatible materials are adequately separated.					(a) ✓ (b) N/A (c) N/A (d) N/A
		E20	• Chemical waste should be collected by licensed waste collectors and disposed of at licensed facility, e.g. Chemical Waste Treatment Centre.					✓

Remarks:

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

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

Remarks:

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

EIA Ref.	EM&A Log Ref	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
LFG (Cont'd)								
Within NENT Landfill Extension								
S7	LFG16	F16	For large development such as NENT landfill extension, a Safety Officer trained in the use of gas detection equipment and LFG- related hazards should be present on-site throughout the groundwork phase. The Safety Officer should be provided with an intrinsically safe portable instrument appropriately calibrated and capable of measuring the following gases: •CH_4: 0-100% and LEL: 0-100%/v •CO_2: 0-100% •O_2: 0-21%	To minimise the risk of LFG hazards to personnel in construction site	Contractor	Entire construction site	Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97) F&IU (Confined Spaces) Regulations Code of Practice on Safety and Health at Work in Confined Spaces	✓
	LFG17	F17	(a) Periodically during groundwork construction, the works area should be monitored for CH_4 CO_2 and O_2 using appropriately calibrated portable gas detection equipment. The monitoring frequency and areas should be established prior to commencement of groundwork either by Safety Officer or appropriately qualified person. (b) Routine monitoring should be carried out in all excavations, manholes, created by temporary storage of building materials on-site. (c) All measurements in excavations should be made with monitoring tube located not more than 10mm from exposed ground surface.					(a) N/A (b) N/A (c) N/A
	LFG18	F18	For excavations deeper than 1m, measurements should be conducted: • At ground surface before excavation commences; • Immediately before any worker enters the excavation; • At the beginning of each working day for entire period the excavation remains open; and Periodically throughout the working day whilst workers are in excavation.					✓
	LFG19	F19	For excavations between 300mm and 1m, measurements should be conducted: • Directly after excavation has been completed; and Periodic all whilst excavation remains open.					✓
	LFG20	F20	For excavations less than 300mm, monitoring may be omitted at the discretion of Safety Officer or appropriately qualified person.					✓
Landscape and Visual Phases								
S8	LV1	G4	<u>Advanced screening tree planting</u> • Early planting using fast growing trees and tall shrubs at strategic locations within site to block major view corridors to the site from the VSRs, and to locally screen haul roads, excavation works and site preparation works. • Roadside planter and shrub planting design in front of Cheung Shan Temple.	To minimise the impact on existing vegetation retained by personnel in construction To provide initiation on permanent landscape and visual mitigation measures	Contractor	Entire construction site	DEVB TC(W) No. 4/2020 - Tree Preservation DEVB TC(W)) No. 6/2015 - Maintenance of Vegetation and Hard Landscape Features DEVB TC(W) No. 6/2011 - Maintenance of Man-made Slopes and Emergency Repair on Stability of Land	✓
S8	LV2	G5	<u>Boundary Green Belt planting</u> Considerable planting belts proposed around the site perimeter and the construction of temporary soil bunds will screen the landfill operations to a certain degree. Fast growing and fire resistant plant species will be used.					To be implemented during operation phase
S8	LV3	G6	<u>Temporary landscape treatment as green surface cover</u> For certain areas where landfilling operations would have to be suspended temporarily for periods of years, simple temporary landscape treatment such as hydroseeding should be considered. During construction and operational phases, grass hydroseeding or synthetic covering material of green colour should also be used as a temporary slope cover if applicable.					✓
S8	LV4	G7	<u>Existing tree preservation</u> Transplant existing trees and vegetation, which are identified as ecologically significant in Ecological Impact Assessment and as rare tree species recorded in the tree survey, under circumstances where technically feasible. For all affected trees, the principle of avoidance of tree felling and tree transplanting of tree before felling should apply whenever possible. A tree felling application should be submitted to DEVB-GLTMS and be approved before any trees are felled or transplanted.					✓

Remarks:

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

EIA Ref.	EM&A Log Ref	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
Ecology								
General Protection Measures:								
S10	E1	-	Restriction of construction activities to the work areas that would be clearly demarcated.	To minimise environmental impacts and therefore potential ecological impacts within and near the construction site	Contractor	Entire construction site	Practice Note for Professional Persons (ProPECC), Construction Site Drainage (PN1/94) Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes, EPD (1992) ETWB TC(W)) No. 33/2002 Management of Construction and Demolition Material Including Rock DEVB TC(W) No. 6/2010 Trip Ticket System for Disposal of Construction and Demolition Materials ETWB TC(W)No.19/2005 Environmental Management on Construction Sites	✓
	E2	-	Reinstatement of the work areas immediately after completion of the works.					✓
	E3	-	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme.					✓
	E4	-	Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.					✓
	E5	-	Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs.					✓
	E6	-	Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works.					N/A
	E7	-	Mobile plant should be sited as far away from NSRs as possible and practicable.					✓
	E8	-	Material stockpiles, site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.					✓
	E9	-	Use of “quiet” plant and working methods.					✓
	E10	-	Construction phase mitigation measures in the Practice Note for Professional Persons on Construction Site Drainage.					✓
	E11	-	Design and set up of the temporary on-site drainage system will be undertaken by the contractor prior to the commencement of construction.					✓
	E12	-	Design and incorporation of silt/sediment traps in the permanent drainage channels to enhance deposition rates and regular removal of reposited silt and grit.					✓
	E13	-	Minimization of surface excavation works during the rainy seasons (April to September), and in particular,control of silty surface runoff during storm events, especially for areas located near steep slopes.					✓
	E14	-	Regular inspection and maintenance of all drainage facilities and erosion and sediment control structures to ensure proper and efficient operation at all times and particularly following rainstorms.					✓
	E15	-	Provision of oil interceptors in the drainage system downstream of any oil/fuel pollution sources					N/A

Remarks:

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

Appendix M Mitigation Measures of Cultural Landscape Features

Completed Site Fencing

SITE BOUNDARY

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

Environmental Complaints Log

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

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

Complaint Ref. No.	Date of Complaint Received	Received from	Received by	Aspect of Complaint	Date of Investigation	Investigation Summary & Conclusion	Date of Reply
C005_20230818	18 Aug 2023	EPD-RNG	ET	Water Quality	18 Sep 2023	It was noted from EPD-RNG's email to the ET on 18 August 2023 that EPD received information regarding the muddy water was observed at River Ganges (GR3) (Water Quality Monitoring Location from EPD) on 14 August 2023. In summary of the investigation, the complaint is project related. It viewed that muddy water arising from wheel washing water from the site entrance at Portion E4 & Runoff from Existing Channel near Portion E3-1 & discharge water from the silt removal facilities at Portion E3-1 eventually flows into the box culvert under Wo Keng Shan Road, WM2 and ultimately to GR3. The related rectified actions had been conducted by the contractor.	13 October 2023
C006_20230914	14 Sep 2023	EPD-RNG	ET	Water Quality	18 Sep 2023	It was noted from EPD-RNG's email to the ET on 14 September 2023 that EPD received information regarding the muddy water was observed at River Ganges (GR3) (Water Quality Monitoring Location from EPD) on 11 September 2023. In summary of the investigation, the complaint is project related. It viewed that muddy water arising from wheel washing water from the site entrance at Portion E4 & Runoff from Existing Channel near Portion E3-1 & discharge water from the silt removal facilities at Portion E3-1 eventually flows into the box culvert under Wo Keng Shan Road, WM2 and ultimately to GR3. The related rectified actions had been conducted by the contractor.	13 October 2023
C007_20240509	9 May 2024	EPD-RNG	ET	Water Quality	13 May 2024	It was noted from EPD-RNG's email to the ET on 9 May 2024 that EPD receipted a memo from DSD/Mainland North regarding the incident of muddy water observed in Ping Yuen River, at the downstream of NENTX, on 23 April 2024. The related investigation results will be presented when the investigation was finished.	TBC

Remarks:

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

Environmental Enquiries Log

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

Remarks:

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

Cumulative Statistics on Complaints

Aspects	Cumulative No. Brought Forward	No. of Complaints during reporting period	Cumulative Project-to-Date
Air Quality	1*	0	1*
Noise	0	0	0
Water Quality	5(1*)	1#	6(1* & 1#)
Waste Management	0	0	0
Total	6(2*)	1#	7(2* & 1#)

Remarks:

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

Prepared by:

Aurecon Hong Kong Limited

Unit 1608, 16/F, Tower B, Manulife Financial Centre,

223 – 231 Wai Yip Street, Kwun Tong,

Kowloon Hong Kong S. A. R.

T: +852 3664 6888

F: +852 3664 6999

E: **hongkong@aurecongroup.com**

aurecon

Bringing ideas to life