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

Monthly Environmental Monitoring and Audit Report (No. 12) – November 2023 2023-12-12



Our Ref.: CL/91823/0926-VES Date: 14 December 2023

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.12) – November 2023

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

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

Yours faithfully MEINHARDT INFRASTRUCTURE AND ENVIRONMENT LTD

Claudine Lee Independent Environmental Checker

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Ref: P521530-0000-REP-NN-0078

By Email

13 December 2023

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.12) – November 2023

In accordance with the requirement specified in Condition 3.3 of Environmental Permit No. EP-292/2007 and Further Environmental Permit No. FEP-02/292/2007, we are pleased to submit the certified "Monthly Environmental Monitoring and Audit Report (No.12) – November 2023" dated 12 December 2023 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.

CC.

^{1.} Monthly Environmental Monitoring and Audit Report (No. 12) – November 2023

^{1.} IEC - Ms. Claudine Lee (By email: claudinelee@meinhardt.com.hk)

^{2.} IEC Representative - Ms. Echo Hung (By email: echohung@meinhardt.com.hk)

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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 12th Monthly EM&A Report presents the EM&A works conducted from 1 to 30 November 2023 in accordance with the EM&A Manual.

Summary of Construction Works undertaken during Report Period

The major construction works undertaken during the reporting period include:

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

Environmental Monitoring and Audit Progress

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

	Items	Times	Date
-	Air Quality Monitoring during normal weekdays at each monitoring station	5 times	2, 8 (Only at AM1 & AM3), 14, 15 (Only at AM2), 20 & 25 November 2023
-	Construction Noise Monitoring during normal weekdays at each monitoring station	4 times	3, 8, 14 & 20 November 2023
-	Surface Water Quality Monitoring during normal weekdays at each monitoring station	1 time	8 November 2023
-	Landfill Gas Monitoring during normal weekdays for Construction Works	26 times	1 to 4, 6 to 11, 13 to 18, 20 to 25, 27 to 30 November 2023
-	Joint Environmental Site Inspection	4 times	6, 13, 20 & 27 November 2023
-	General Site Inspection by EPD-RNG	1 time	27 November 2023

Environmental Exceedance

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

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

Environmental Non-conformance/Complaint/Summons and Prosecution

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

Reporting Change

There was no reporting change in the reporting period.

Future Key Issues

Works to be undertaken in the next month include:

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

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

1. Introduction

1.1. Background

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

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

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

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

Item(s)	Content		
Nature of Designated Project	Construction and operation of a landfill for waste as defined in the "Waste Disposal Ordinance" (Cap. 354)		
Scale and Scope of Designated Project	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 		

1.3. Purpose of this Report

1.3.1. This is the 12th 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 30 November 2023.

1.4. Structure of the Report

-

1.4.1. The structure of the report is as follows:

Section 1 – Introduction

details the background, purpose and structure of the report.

Section 2 – Project Information

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

Section 3 – Air Quality Monitoring

- Construction Dust

Section 4 – Noise Monitoring

Section 5 – Water Quality Monitoring

- Groundwater Monitoring
- Surface Water Monitoring

Section 6 – Waste Management

- Section 7 Landfill Gas Monitoring
- Section 8 Landscape and Visual
- Section 9 Cultural Heritage
- Section 10 Ecological Monitoring
- Section 11 Site Inspection and Audit
- Section 12 Environmental Non-Conformance
- Section 13 Implementation Status on Environmental Mitigation Measures
- Section 14 Future Key Issues

2. **Project Information**

2.1. Construction Activities

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

2.2. Project Organization & Management Structure

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

Table 2-1 Contact Information of Key Personnel

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

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

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

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

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

2.4. Status of Environmental Approval Document

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

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

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

2.5. Environmental Monitoring and Audit Progress

2.5.1. A summary of the monitoring activities in this reporting period is presented in **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	5 times	2, 8 (Only at AM1 & AM3), 14, 15 (Only at AM2), 20 & 25 November 2023
-	Construction Noise Monitoring during normal weekdays at each monitoring station	4 times	3, 8, 14 & 20 November 2023
-	Surface Water Quality Monitoring during normal weekdays at each monitoring station	1 time	8 November 2023
-	Landfill Gas Monitoring during normal weekdays for Construction Works	26 times	1 to 4, 6 to 11, 13 to 18, 20 to 25, 27 to 30 November 2023
-	Joint Environmental Site Inspection	4 times	6, 13, 20 & 27 November 2023
-	General Site Inspection by EPD-RNG	1 time	27 November 2023

Air Quality

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

Noise

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

Groundwater

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

Surface Water Quality

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

Landfill Gas

26 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 November 2023. The Contractor has generally implemented part of the mitigation measures as recommended. One general site inspection was conducted by Environmental Protection Department-Regional Office (North) (EPD-RNG) during the reporting period.

3. Air Quality Monitoring

3.1 Construction Dust

3.1.1 Monitoring Requirement

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

3.1.2 Monitoring Parameters, Frequency and Location

- 3.1.2.1 According to the EM&A Manual, three monitoring stations namely AM(D)1, AM(D)2 and AM(D)3 are selected for the impact monitoring.
- 3.1.2.2 A baseline monitoring plan has been submitted to IEC and EPD on 31 May 2022 including the proposal with justification of change of monitoring locations. Due to limited access to the original monitoring locations at AM(D)1, AM(D)2 and AM(D)3, the adjusted stations at AM1, AM2 and AM3 were agreed with IEC prior to the baseline and impact monitoring. The locations of adjusted dust monitoring locations are shown in **Figure 2**.
- 3.1.2.3 The detailed monitoring schedule is shown in **Appendix C**. The locations of dust monitoring stations are shown in **Table 3-1**. The monitoring parameters, frequency and duration are shown in **Table 3-2**.

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

 Table 3-1
 Locations of Dust Monitoring Stations

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 D.

Equipment	Model	Expiry Date	Monitoring Station
	TE-5170X (S/N: 1105)		AM1
High Volume Sampler (HVS)	TE-5170X (S/N: 1106)	3 Jan 2023	AM2
	TE-5170X (S/N: 1856)		АМЗ
	Sibata LD- 5R (S/N: 0Z4545)	2 Dec 2023	AM1 to AM3
Direct Reading Dust Meter	Sibata LD- 5R (S/N: 882106)		
	Sibata LD- 5R (S/N: 942532)		
Calibration Kit (for HVS)	TE-5025A (S/N: 4166)	19 Jun 2024	AM1 to AM3

Table 3-3 **Dust Monitoring Equipment**

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 halflength 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.
- 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
- Five flow rates are achieved by changing the different plates to change the resistance. Record the manometer reading and the reading from continuous flow recorder. At least 5 sets of data should be recorded.
- 3.1.4.12 The Calibration process shall eyewitness with the representative of ET & IEC.

3.1.5 Monitoring Results

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

	Average 1-hr TSP Concentration, µg/m³ (Range)				
Month	Dust Monitoring Station				
	AM1	AM2	AM3		
Nov 2023	28 (22 – 36)	34 (30 – 39)	37 (30 – 43)		
Action Level	>285	>279	>285		
Limit Level	>500				

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

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

	Average 24-hr TSP Concentration, µg/m ³ (Range)				
Month	Dust Monitoring Station				
	AM1	AM2	AM3		
Nov 2023	112 (101 – 128)	89 (70 – 110)	101 (88 – 117)		
Action Level	>164	>152	>163		
Limit Level	>260				

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

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

Dust Monitoring Station		A	M1	AM2 AM3		М3	
Level Exceedance Parameters		Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level
1-hr TSP	Exceedance Date	-	-	-	-	-	-
	Exceedance Count	0	0	0	0	0	0
24-hr TSP	Exceedance Date	-	-	-	-	-	-
	Exceedance Count	0	0	0	0	0	0

Remarks: * equal to non-project related

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

3.1.6 Wind Data Monitoring

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

3.1.7 Recommended Mitigation Measures

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

3.1.8 Event and Action Plan

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

Table 3-7 Event and Action Plan for dust impact

Event	ET	IEC	Contractor
Exceedance of Action Level			
Exceedance for one sample	 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 		 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 C**. The frequency and duration are shown in **Table 4-2**.

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

Table 4-1Noise Monitoring Locations

Remarks:

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

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

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

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

Table 4-2 Noise Monitoring Parameters, Frequency and Duration

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

4.3 Monitoring Equipment

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

Equipment Model		Expiry Date
Sound Level Meter	NTi XL2 (S/N: A2A-13663-F0)	14 Feb 2024
Acoustic Calibrator	Rion NC-75 (S/N: 34724245)	2 Aug 2024
Anemometer	RS PRO RS-90 (S/N: 210722208)	12 Feb 2025

Table 4-3 Noise Monitoring Equipment

4.4 Monitoring Methodology

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

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

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

Calibration & Maintenance

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

4.5 Monitoring Results

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

Table 4-4 Summary of Noise Monitoring Results during normal working hours (07:00-19:00, Monday to Saturday)

	Average Leq, 30min, dB(A) (Range)Noise Monitoring StationNM1aNM2a			
Month				
Nov 2023	60.0 (52.2 – 63.3)	49.1 (47.7 – 49.8)		
Action Level	When one documented complaint is received			
Limit Level	>75dB(A)			

Remark:

- (1) * A correction of +3 dB(A) was made to the free field measurements
- (2) If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.
- **4.5.2** No exceedance of Action and Limit Levels of construction noise was recorded during the reporting period. Therefore, there was no record of Notification of Environmental Quality Limits Exceedance in the **Appendix G**.
- **4.5.3** No particular observations are identified near the monitoring stations during the monitoring period.
- **4.5.4** The Summary of Impact Noise Exceedance are shown in **Table 4-5**.

Table 4-5 Summary of Impact Noise Exceedance during the reporting period

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

Remarks: * equal to non-project related

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

4.6 Recommended Mitigation Measures

- **4.6.1** The recommended noise mitigation measures from EIA report are listed as followed:
 - 1. Use of good site practices to limit noise emissions by considering the following:
 - Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme;
 - Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;
 - Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs;
 - Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;
 - Mobile plant should be sited as far away from NSRs as possible and practicable;
 - Material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from onsite 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 Table4-6 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 C**.

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

Table 5-1 Surface water quality monitoring locations

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

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

5.2.3 Monitoring Equipment

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

Table 5-3 Surface Water Quality Monitoring Equipment

Equipment	uipment Model	
Water Quality Meter	HORIBA U-53 (S/N: PPHNOMXY)	21 Nov 2023
Water Flow Meter	Global Water FP211 (S/N: 22K100858)	26 Mar 2024

5.2.4 Summary of Surface Water Quality Monitoring Procedure

Operational/ Analytical Procedures

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

Laboratory Analytical Methods

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

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

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

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 November 2023. No adverse weather was observed during reporting period. The detailed monitoring schedule is shown in **Appendix C**.
- 5.2.5.2 The summary of monitoring results is presented in **Table 5-5**. Detailed monitoring results at each monitoring station and graphical presentations of surface water quality (DO, SS and Turbidity) at the monitoring stations are given in **Appendix E** and **Appendix F**.
- 5.2.5.3 No particular observations are identified near the monitoring stations during the monitoring period.

Table 5-5	Summary of Impact Surface Water Monitoring Results
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	Monitoring Station					
Monitoring	WM1 WM2					
Parameter(s)	Monitoring Results	Action Level	Limit Level	Monitoring Results	Action Level	Limit Level
рН	7.6	>7.7	>7.8	7.5	>7.6	>7.7
DO in mg/L	7.5	<7.4	<4	6.5	<5	<4
Turbidity in NTU	5.1	>9.2	>9.5	20.8	>108.3	>108.9
Electrical Conductivity in µS/cm	59			159		
SS in mg/L	2.5	>9.7	>11.4	10.0	>94.5	>94.7
Alkalinity in mg/L	17			44		
COD in mg/L	7			<5		
BOD₅ in mg/L	<2			<2		
TOC in mg/L	2			2		
Ammonia-nitrogen in mg/L	0.07			0.06		
TKN in mg/L	0.5			0.1		
Nitrate in mg/L	0.05			0.19		
Sulphate in mg/L	<1			24		
Sulphite in mg/L	<2			<2		
Phosphorus in mg/L	0.0			<0.01		
Chloride in mg/L	6			6		
Sodium in µg/L	8120			6010		
Magnesium in µg/L	480	-		1470	-	
Calcium in µg/L	3330			19400		
Potassium in µg/L	600			2010		
Iron in µg/L	420			1340		
Nickel in µg/L	<1			2		
Zinc in µg/L	13			20		
Manganese in µg/L	41			1350		
Copper in µg/L	2.0					
Lead in µg/L	<1			1		
Cadmium in µg/L	<0.2			<0.2		
Coliform Count in cfu/100mL	25			56		
Oil and Grease in mg/L	<5			<5		

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

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

Surface Water Quality Monitoring Station		WM1		WM2	
Level Exceedance Parameters		Limit Level	Action Level	Limit Level	
Exceedance Date	-	-	-	-	
Exceedance Count	0	0	0	0	
Exceedance Date	-	-	-	-	
Exceedance Count	0	0	0	0	
Exceedance Date	-	-	-	-	
Exceedance Count	0	0	0	0	
Exceedance Date	-	-	-	-	
Exceedance Count	0	0	0	0	
	Level Exceedance Exceedance Date Exceedance Count Exceedance Date Exceedance Count Exceedance Date Exceedance Count Exceedance Date Exceedance Date	Level ExceedanceAction LevelExceedance Date-Exceedance Count0Exceedance Date-Exceedance Count0Exceedance Date-Exceedance Date-Exceedance Date-Exceedance Date-Exceedance Count0Exceedance Date-Exceedance Count0Exceedance Date-Exceedance Date-Exceedance Date-OExceedance DateExceedance Count0	Level ExceedanceAction LevelLimit LevelExceedance DateExceedance Count00Exceedance DateExceedance Count00Exceedance Count00Exceedance DateExceedance DateExceedance Count00Exceedance Count00Exceedance DateExceedance DateExceedance Count00Exceedance Count00	Level ExceedanceAction LevelLimit LevelAction LevelExceedance DateExceedance Count000Exceedance DateExceedance Count000Exceedance Count000Exceedance DateExceedance DateExceedance Count000Exceedance Count000Exceedance DateExceedance Count000Exceedance DateExceedance Count000	

Remarks: * equal to non-project related

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

5.2.6 Recommended Mitigation Measure

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

5.2.7 Implementation of the temporary surface water drainage system

- 5.2.7.1 The site inspection and audits were carried out by ER, IC, ET & Contractor on weekly basis (IEC on monthly basis) to monitor the construction progress, maintenance performance and effectiveness of temporary surface water drainage system in the Project Site to fulfil the FEP Condition 2.13, EP Condition 2.15 and the section 5.2.1.1 of the EM&A Manual. The layout of the temporary surface water drainage system is presented in Appendix P. The joint environmental site inspection records are shown in Appendix J.
- 5.2.7.2 All construction site runoff would be treated by silt removal facilities to fulfil the requirement of WPCO licenses from the project. Construction site runoff from the project after treatment was discharged to Ping Yuen River. The surface water monitoring results at WM2 (after the discharge point of silt removal facilities) can reflect the water quality at Ping Yuen River during the reporting period.

5.2.8 Event and Action Plan

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

Table 5-7 Event and Action Plan for Water Quality

Event	ET	IEC	Contractor		
Action level being exceeded by one sampling day	 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 I**.
- **6.1.2** A total of 73,352 tonnes of C&D materials was reused at alternative disposal ground (NENT Landfill) during the reporting period. No Yard waste (collected to Y-Park) was generated during the reporting period. A total of 2629.37 tonnes of Imported fill was generated during the reporting period. A total of 35.13 tonnes of general refuse and A total of 110.74 tonnes of non-recyclable yard waste was generated during the reporting period. The general refuse generated from the Project were disposed of at the NENT Landfill.
- **6.1.3** The recommended waste management mitigation measures from EIA report are listed as followed:
 - Implement a trip-ticket system to ensure that the movement of C&D materials are properly documented and verified in accordance with DEVB TC(W) No. 6/2010.
 - Concrete and masonry should be used as general fill and steel reinforcement bars can be used by scrap steel mills.
 - Proper areas should be designated for waste segregation and storage wherever site conditions permit.
 - Maximise the use of reusable steel formwork to reduce the amount of C&D material.
 - Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement.
 - On-site sorting and segregation facility of all type of wastes is considered as one of the best practice in waste management and hence, should be implemented in all projects generating construction waste.
 - The sorted public fill and C&D waste should be properly reused.
 - Excavated slope, stockpiled material and bund walls should be covered by tarpaulin until used in order to prevent wind-blown dust during dry weather, and to reduce muddy runoff during wet weather.

7 Landfill Gas Monitoring

7.1 Monitoring Requirement during Construction

Monitoring for Construction Works

- **7.1.1** Intrinsically safe portable gas detectors should be used during or when working in any confined spaces, which have the potential for presence of LFG and risk of explosion or asphyxiation. The monitoring equipment should alarm, both audibly and visually, when the concentrations of the following gases were exceeded:
 - CH₄: >10% Lower Explosion Limit (LEL);
 - CO₂: >0.5%; and
 - O₂: <18% by volume.

7.2 Monitoring Locations

- **7.2.1** During the construction works within the NENT Landfill Extension site with excavation of 1m deep or more, LFG concentrations should be monitored before entry and periodically during the progress of works. If drilling is required, the procedures for safety management and working procedures as stipulated in EPD's Landfill Gas Hazard Assessment Guidance Note should be strictly adopted.
- **7.2.2** The monitoring frequency and areas to be monitored should be set down prior to commencement of groundworks by the Safety Officer. All measurements in excavations should be made with the monitoring tube located not more than 10mm from the exposed ground surface. Monitoring of excavations should be undertaken as follows:
- 7.2.3 For excavation works deeper than 1m, measurements should be made:
 - at ground surface prior to excavation;
 - immediately before any worker enters the excavation;
 - at the beginning of each working day for the entire period the excavation remains open; and
 - periodically through the working day whilst workers are in the excavation.
- 7.2.4 For excavation between 300mm and 1m deep, measurements should be made:
 - · directly after the excavation has been completed; and
 - periodically whilst the excavation remains open.
- **7.2.5** For excavations less than 300mm deep, monitoring may be omitted, at the discretion of the Safety Officer.
- **7.2.6** The locations of LFG monitoring locations during reporting period are shown in **Table 7-1**. The Site formation layout plan is shown in **Figure 2** and the Layout of LFG monitoring locations is presented in **Figure 3**.

Table 7-1	Locations of LFG Monitoring during reporting period
-----------	-----------------------------------------------------

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

7.3 Monitoring Equipment

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

Table 7-2 LFG Monitoring Equipment

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

Table 7-3 Landfill Gas Monitoring Detection Limits

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

7.4 Event and Action Plan (EAP)

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

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

Parameter	Monitoring Result	Action	
	Action Level <19% O ₂	Ventilate trench/void to restore O ₂ to >19%	
Oxygen (O ₂)	Limit Level <18% O ₂	Stop works Evacuate personnel/prohibit entry Increase ventilation to restore O ₂ to >19%	
	Action Level >10% LEL*	Prohibit hot works Increase ventilation to restore CH ₄ to <10% LEL	
Methane (CH ₄)	Limit Level >20% LEL*	Stop works Evacuate personnel/prohibit entry Increase ventilation to restore CH ₄ to <10% LEL	
	Action Level** >0.5%** CO ₂	Ventilate to restore CO_2 to <0.5%	
Carbon dioxide (CO ₂)	Limit Level >1.5% CO ₂	Stop works Evacuate personnel / prohibit entry Increase ventilation to restore CO_2 to <0.5%	

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

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

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

7.5 Monitoring Results

- **7.5.1** The LFG monitoring was carried out two rounds (at the beginning of works in the morning and after lunch) at the working days. The monitoring period of each round of LFG monitoring is around 5 minutes.
- **7.5.2** The LFG monitoring was conducted at Portion A +50 mpD to 70 mpD Platform in November 2023 (Conducted on working days). The LFG monitoring results are summarized in **Table 7-5**.

Table 7-5		I LFG Monitoring Results					
LFG Monitoring	Monitoring Date			g Parameter(s)			
Station	Date	CH₄ in %	LEL in %/v	CO ₂ in %	O ₂ in %		
		Average Monitoring Results					
	1 Nov 2023	0	0	0	20.1		
	2 Nov 2023	0	0	0	20.2		
	3 Nov 2023	0	0	0	20.1		
	4 Nov 2023	0	0	0	20.2		
	6 Nov 2023	0	0	0	20.2		
	7 Nov 2023	0	0	0	20.1		
	8 Nov 2023	0	0	0	20.1		
	9 Nov 2023	0	0	0	20.2		
	10 Nov 2023	0	0	0	20.1		
	11 Nov 2023	0	0	0	20.0		
	13 Nov 2023	0	0	0	20.1		
	14 Nov 2023	0	0	0	20.1		
Portion A +50	15 Nov 2023	0	0	0	20.1		
mpD to 70 mpD Platform	16 Nov 2023	0	0	0	20.1		
mpb i lacioni	17 Nov 2023	0	0	0	20.0		
	18 Nov 2023	0	0	0	20.2		
	20 Nov 2023	0	0	0	20.1		
	21 Nov 2023	0	0	0	20.1		
	22 Nov 2023	0	0	0	20.1		
	23 Nov 2023	0	0	0	20.1		
	24 Nov 2023	0	0	0	20.1		
	25 Nov 2023	0	0	0	20.1		
	27 Nov 2023	0	0	0	20.1		
	28 Nov 2023	0	0	0	20.1		
	29 Nov 2023	0	0	0	20.1		
	30 Nov 2023	0	0	0	20.1		
Action	Level	>10% LEL		>0.5%** CO2	<19%		

Table 7-5 Summary of LFG Monitoring Results

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

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

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

Landfill Gas Monitoring Station		Portion A +50 mpD to 70 mpD Platform		
Level Exceedance		Action Level	Limit Level	
Parameters	3			
CH₄	Exceedance Date	-	-	
	Exceedance Count	0	0	
CO ₂	Exceedance Date	-	-	
	Exceedance Count	0	0	
O 2	Exceedance Date	-	-	
	Exceedance Count	0	0	

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

Remarks: * equal to non-project related

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

- The recommended landfill gas mitigation measures from EIA report are listed as followed: 7.6.1
 - ٠ Special LFG precautions should be taken due to close proximity of NENT landfill extension site to existing landfill to avoid potential hazards of LFG exposure (ignition, explosion, asphyxiation, toxicity).
 - Prominent safety warning signs should be erected on-site to alert all personnel and visitors of LFG hazards during excavation works.
 - No smoking or burning should be permitted on-site.
 - Prominent 'No smoking' and 'No Naked Flames' signs should be erected on-site.
 - No worker should be allowed to work alone at any time in excavated trenches or confined areas on-site.
 - Adequate fire fighting equipment should be provided on-site.
 - Construction equipment should be equipped with vertical exhaust at least 0.6m above ground installed with spark arrestors.
 - Electrical motors and extension cords should be explosion-proof and intrinsically safe for use on-site.
 - 'Permit to Work' system should be implemented.
 - Welding, flame-cutting or other hot works should be conducted only under 'Permit to Work' system following clear safety requirements, gas monitoring procedures and presence of qualified persons to supervise the works.

8 Landscape and Visual

8.1 Monitoring Requirement

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

8.2 Result and Observation

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

9 Cultural Heritage

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

10 Ecological Monitoring

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

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

Table 10-1Milestone of the Ecological Monitoring

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 November 2023. A joint environmental site inspection was carried out by the representatives of the ER, the Contractor, IEC and the ET on 20 November 2023. The joint environmental site inspection records are shown in Appendix J. There was no noncompliance recorded during the site inspections.
- **11.1.3** Major findings and recommendations are summarized as follows:

06 November 2023

Observation(s):

- The outside surrounding of the scaffolding without dust screen, sheeting or netting was found at the Portion D. The contractor was advised that the effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy provided from the first-floor level up to the highest level of the scaffolding.
- The muddy water which is caused from the water spraying by the water sprinkler at the Portion A was found. The deposited silt and grit are found under the tower crane at the Portion A. The contractor was recommended that the sandbag barriers or bunds should be provided and established along the water safety barriers at the Portion A. The muddy water should be collected from the proper channel, final to the silt removal facility for treatment. The deposited silt and grit under the tower crane at the Portion A should be removed.
- The food waste was found at the waste skip of SBA. The general waste should be stored in the enclosed bins. The contractor was advised that the additional enclosed bin should be increased at the SBA. The "type of waste" label should be labelled at the surrounding of the enclosed bins or waste skip for easily identify for on-site workers.
- The slope surface at the Portion E4 should be covered by impervious sheet properly. The contractor has been advised to cover the exposed slope surface by impervious sheet properly.

13 November 2023

Observation(s):

• The loaded dump truck without covering impervious sheet was found at the assess road between Portion A and E4. The contractor was recommended to ensure all of loaded dump trucks should be covered by impervious sheeting.

20 November 2023

Observation(s):

- The overloading of accumulated waste at portion A was found. The contractor was advised that the enough waste skip should be provided, and the waste should be clean regularly at portion A to prevent and avoid accumulated waste place on the floor.
- The general waste at the waste skip of SBA was found. The contractor was reminded that the general waste includes food waste should be stored at the enclosed bins. The enclosed bin with clear label should be provided at SBA near the waste skip.
- The slope surface at SBA without covering impervious sheets properly was found. The contractor was recommended that the exposed slope should be covered by impervious sheet.

27 November 2023

Reminder(s):

•

- The contractor has been reminded that water spraying shall be provided regularly for dust control.
- **11.1.4** One general site inspection was conducted by Environmental Protection Department-Regional Office (North) (EPD-RNG) during reporting period.

12 Environmental Non-conformance

12.1 Summary of Monitoring Exceedance

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

- **12.1.1** No exceedance of the Action Levels and Limit Level were recorded at designated monitoring stations during the reporting period. The Notification of Environmental Quality Limits Exceedance is presented in **Appendix G**.
- 12.1.2 The Summary of Impact 1-hr & 24-hr TSP Exceedance are shown in Table 12-1.

Table 12-1 Summary of Impact 1-hr & 24-hr TSP Exceedance during the reporting period

Dust Monitoring Station		AM1		AM2		AM3	
Parameters	evel 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 Moni	toring Station	NM	1(a)	NM	l2(a)		
l Parameters	_evel Exceedance	Action Level	Limit Level	Action Level	Limit Level		
LA _{eq} (30mins)	Exceedance Date	-	-	-	-		
Pomorko: * oguol to po	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 Wat	ter Quality Monitoring Station	W	M1	WM2			
Parameters	Level Exceedance	Action Level	Limit Level	Action Level	Limit Level		
рН	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 Ga	as Monitoring Station	Portion A +50 mpD	to 70 mpD Platform
	Level Exceedance	Action Level	Limit Level
Parameter	S		
CH₄	Exceedance Date	-	-
	Exceedance Count	0	0
CO ₂	Exceedance Date	-	-
	Exceedance Count	0	0
O 2	Exceedance Date	-	-
	Exceedance Count	0	0

Remarks: * equal to non-project related

12.2 Summary of Environmental Non-compliance

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

12.3 Summary of Environmental Complaint

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

Table 12-5	Cumulative Statistics on Environmental Complaints
------------	---------------------------------------------------

		Environmental Aspects									
Repo	orting Period	Air Quality	Noise	Water Quality	Waste	Ecology					
Nov. 0000	Complaint Date	-	-	-	-	-					
Nov 2022	No. of Complaint	0	0	0	0	0					
Reporti	ng Period Total	0	0	0	0	0					
Accum	ulate of project	1	0	5	0	0					

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

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

12.4 Summary of Environmental Summons and Successful Prosecution

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

13 Implementation Status on Environmental Mitigation Measures

13.1 General

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

13.2 Temporary Surface Water Drainage System (TSWDS)

13.2.1 The effectiveness of the TSWDS is keeping reviewing and improve by the contractor. The layout of the TSWDS is presented in **Appendix P**.

13.3 Hydroseeding

13.3.1 The implementation of hydroseeding at the site boundary is keeping conducting by the contractor. The layout of implementation of hydroseeding is presented in **Appendix P**.

13.4 Slope Surface Protection

13.4.1 The implementation of measure for control of construction runoff is keeping conducting by the contractor. The layout & photo record of implementation of measure for control of construction runoff is presented in **Appendix P**.

14 Future Key Issues

14.1 Key Issues for the Coming Month

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

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

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

14.2 Monitoring Schedule for the Next Month

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

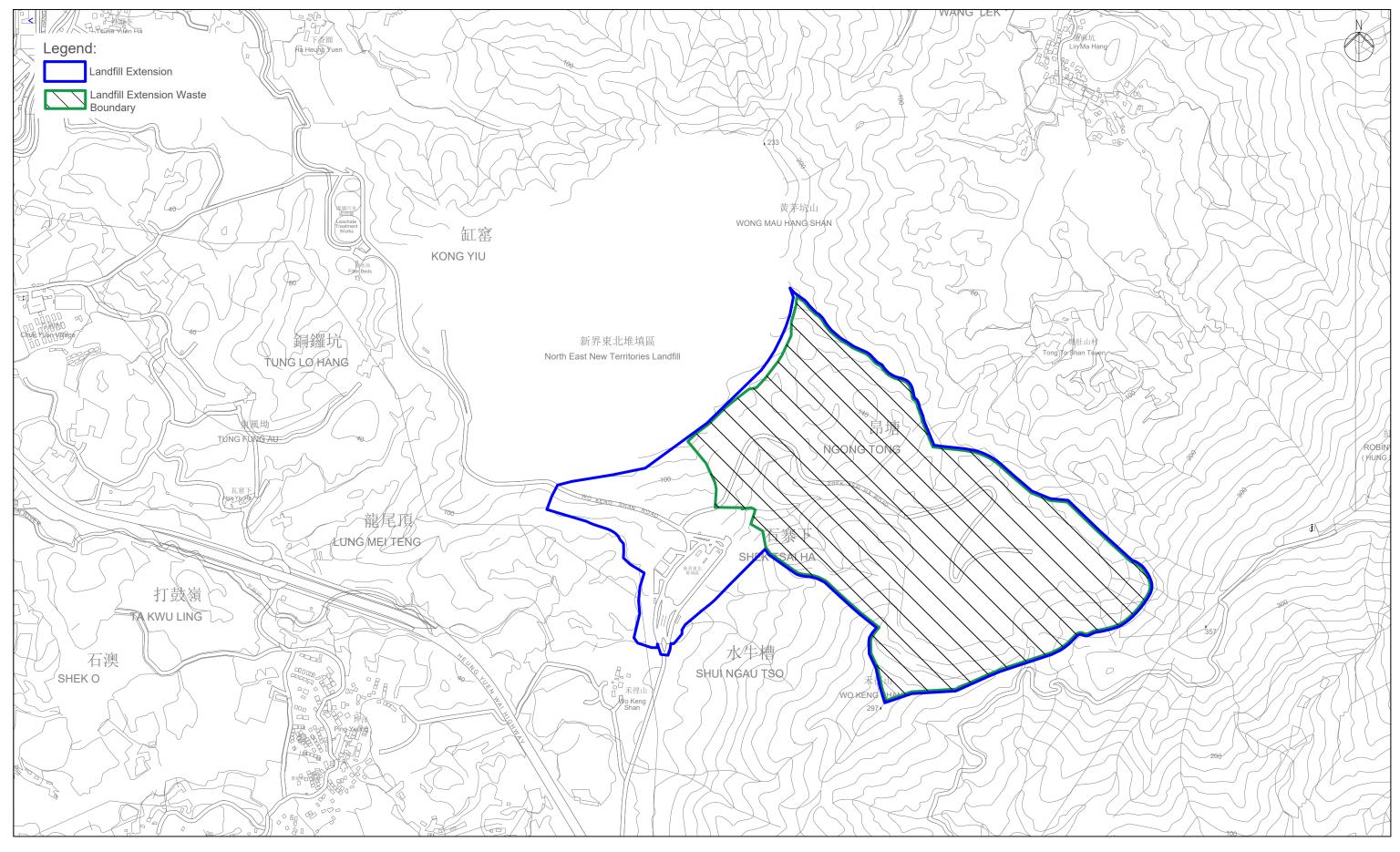
14.3 Construction Programme for the Next Month

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

15 Conclusion

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

Figure 1 Location of the Project Site



Aurecon Hong Kong Limited

North-East New Territories (NENT) Landfill Extension Location Plan of the Project Site

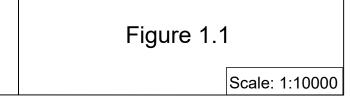
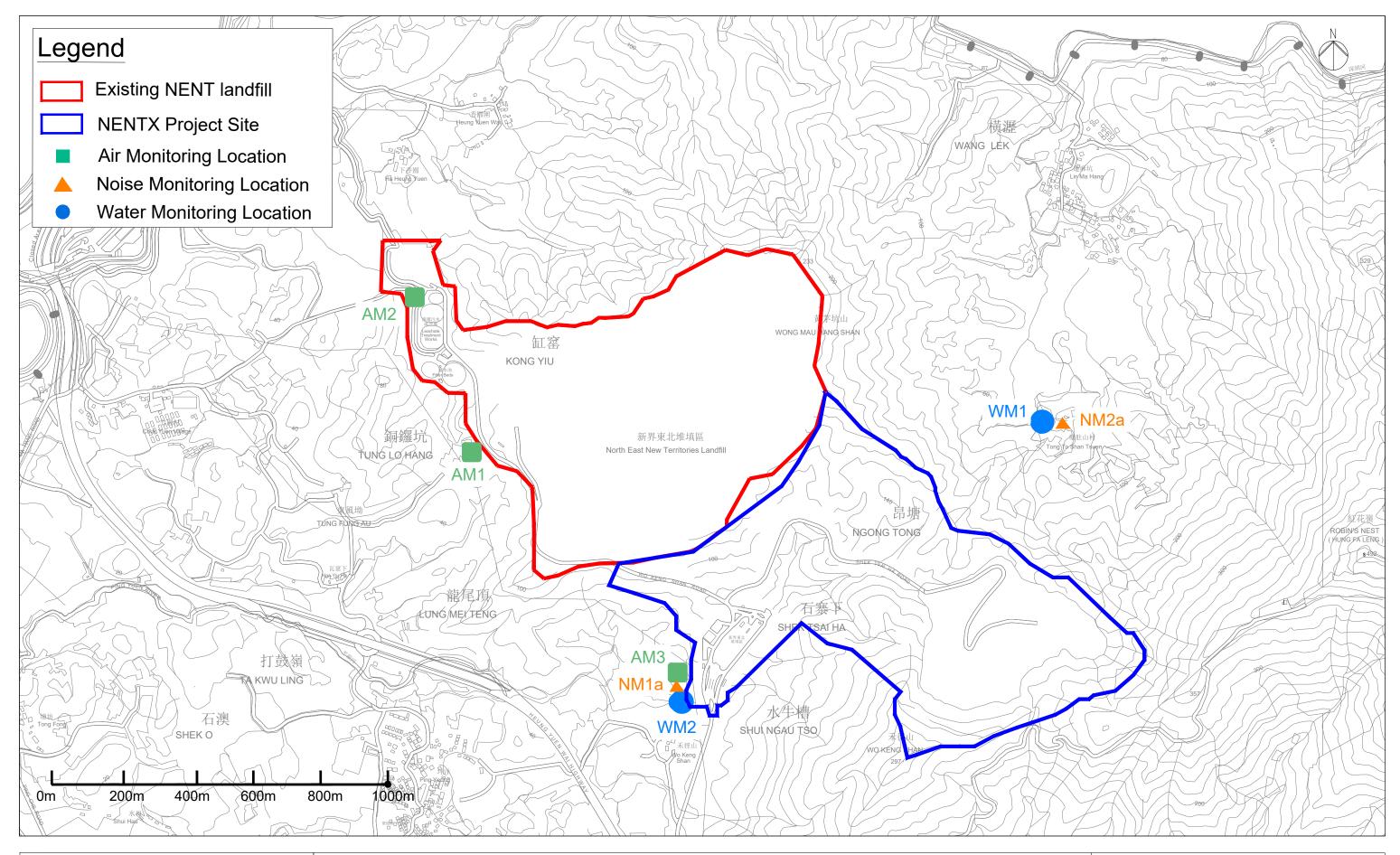


Figure 2 Impact Air Quality, Noise & Surface Water Quality Monitoring Locations



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North East New Territories (NENT) Landfill Extension Impact Monitoring Location

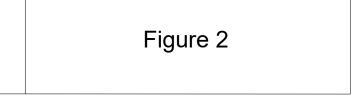


Figure 3 Landfill Gas Monitoring Locations

Gas Monitoring Point • Monitoring Frequency: 2 times per day

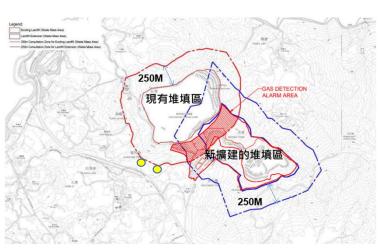
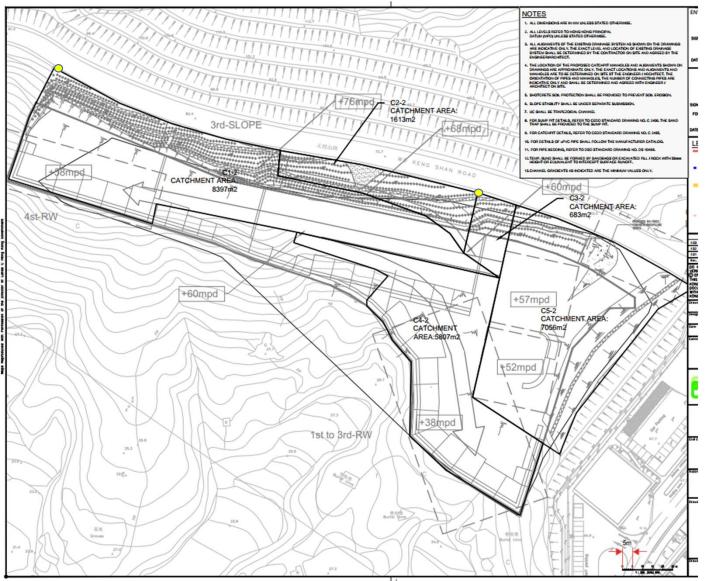


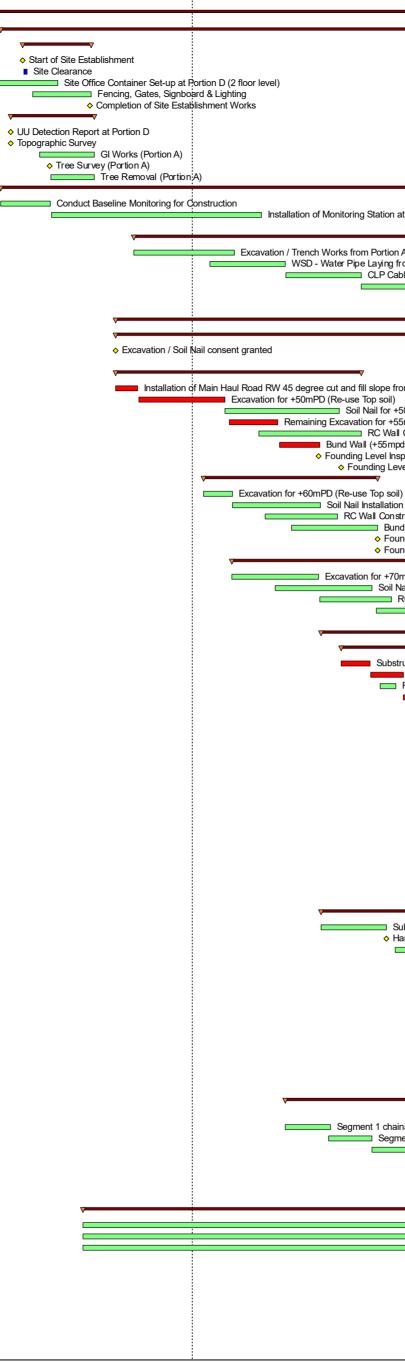
Figure 3 Landfill Gas Monitoring Locations



Appendix A Construction Programme

тх		1432	25-Jan-22 A	27-Dec-25	Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug S -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
	- INITIAL WORKS PHASE 1	1432	25-Jan-22 A	27-Dec-25	-
	nce Works & Site Establishment	1403	11-Apr-22 A	27-Nov-25	
05-0001	HMENT AND MOBILISATION Start of Site Establishment	202 0	12-May-22 A 12-May-22 A	14-Aug-22	 Start of Site Establishment
05-0002 05-0003	Site Clearance Site Office Container Set-up at Portion D (2 floor level)	12 60	13-May-22 A 13-May-22 A	18-May-22 A 29-Jun-22	Site Clearance Site Office Container Set-up at Portion D (2 floor level)
05-0004 05-0005	Fencing, Gates, Signboard & Lighting Completion of Site Establishment Works	80 0	25-May-22	14-Aug-22 12-Aug-22	Fencing, Gates, Signboard & Lighting ♦ Completion of Site Establishment Works
	INVESTIGATION WORKS	75	25-Apr-22 A	18-Aug-22	<u>√</u>
05-0007 05-0008	UU Detection Report at Portion D Topographic Survey	0		25-Apr-22 A 25-Apr-22 A	 ♦ UU Detection Report at Portion D ♦ Topographic Survey
05-0009	GI Works (Portion A)	75 0	04-Jun-22	18-Aug-22	GI Works (Portion A)
05-0010 05-0011	Tree Survey (Portion A) Tree Removal (Portion A)	59	19-Jun-22	17-Jun-22 18-Aug-22	Tree Removal (Portion A)
05-0018	AL MONITORING Conduct Baseline Monitoring for Construction	1138 60	11-Apr-22 11-Apr-22	27-Nov-25 18-Jun-22	Conduct Baseline Monitoring for Construction
05-0019 05-0020	Installation of Monitoring Station at Portion A and D Conduct Baseline Monitoring for Operation Period	250 255	20-Jun-22 04-Feb-25	06-Apr-23 27-Nov-25	Installation of Monitoring S
	round UTILITIES (Portion A to Portion D)	470	12-Oct-22	11-Apr-24	▽────
5-0012 5-0013	Excavation / Trench Works from Portion A to Portion D for all UG Utilities WSD - Water Pipe Laving from Portion A to Portion D buildings	120 90	12-Oct-22 25-Jan-23	28-Feb-23 09-Mav-23	Excavation / Trench Works from WSD - Water Pipe L
5-0014 5-0015	CLP Cable Laying Site boundary from Portion A to CLP Transformer Room at Process Building Portion A - Remaining LV Cable and UG Duct Utilities Laying and Distribute to all Site Buildings t	90 60	10-May-23 22-Aug-23	22-Aug-23 31-Oct-23	
5-0016	Telecom Cable Duct / Cable Laying (Process Building to all site buildings)	60	31-Oct-23	09-Jan-24	
-0017 RTION A - Infra	Backfilling and Reenstatement Works - Portion A to D alignment Utilities (WSD,CLP,Telecom) structure Treatment Area	80 1174	09-Jan-24 17-Sep-22	11-Apr-24 04-Dec-25	~
TE FORMATIO		397	17-Sep-22	11-Nov-23	
05-0021 05-0022	Excavation / Soil Nail consent granted Site Formation Completed	0 0	17-Sep-22	11-Nov-23	Excavation / Soil Nail consent granted
Soil Ground Pl	atform at +50mPD/+55mPD	320	17-Sep-22	22-Aug-23	
05-0023 05-0024	Installation of Main Haul Road RW 45 degree cut and fill slope from crest line Excavation for +50mPD (Re-use Top soil)	28 111	17-Sep-22 19-Oct-22	17-Oct-22 15-Feb-23	Installation of Main Haul Road RW 45 degree cut and fill Excavation for +50mPD (Re-use TC
05-0025 05-0026	Soil Nail for +50mpD to +60mPD Remaining Excavation for +55mpD to +60mPD (Re use Top soil)	150 64	15-Feb-23 21-Feb-23	23-Jul-23 29-Apr-23	Soil N
05-0027	RC Wall Construction (+50mPD) chainage	134 54	03-Apr-23	23-Aug-23 22-Aug-23 26-Jun-23	Bund Wall
05-0028 05-0029	Bund Wall (+55mpd) Founding Level Inspection +55mPD	0	02-May-23	24-Jun-23	♦ Founding L
05-0030 Soil Ground Pl	Founding Level Inspection +50mPD latform at +60mPD (LTW Plant)	0 229	17-Jan-23	26-Jul-23 14-Sep-23	♦ Foun
05-0031	Excavation for +60mPD (Re-use Top soil)	36	17-Jan-23	25-Feb-23	Excavation for +60mPD (Re-use
05-0032 05-0033	Soil Nail Installation RC Wall Construction (+60mPD) chainage	115 96	25-Feb-23 12-Apr-23	27-Jun-23 20-Jul-23	
05-0034 05-0035	Bund Wall (+60mpd, +65mpd) Founding Level Inspection +60mPD	117 0	18-May-23	14-Sep-23 14-Sep-23	
05-0036 Soil Ground Pl	Founding Level Inspection +65mPD latform at +70mPD (LTW Plant)	0 248	25-Feb-23	14-Sep-23 11-Nov-23	· · · · · · · · · · · · · · · · · · ·
05-0037	Excavation for +70mPD (Re-use top soil)	113	25-Feb-23	24-Jun-23	Excavation
05-0038 05-0039	Soil Nail for +70mPD RC Construction (+70mPD) chainage	130 96	26-Apr-23 26-Jun-23	06-Sep-23 03-Oct-23	
05-0040 05-0041	Bund Wall (+70mpd) Founding Level Inspection +70mPD	56 0	13-Sep-23	11-Nov-23 11-Nov-23	
	TMENT AREA	891	28-Jun-23	04-Dec-25	
Process Buildi		661	26-Jul-23	17-May-25	
05-0042 05-0043	Substructure / Footing RC LG/F Beam and Column to G/F	40 42	26-Jul-23 05-Sep-23	04-Sep-23 20-Oct-23	
05-0044 05-0045	RC External Wall L/GF RC G/F Slab / beam and Walls/Column to 1/F	18 30	18-Sep-23 20-Oct-23	09-Oct-23 20-Nov-23	
05-0046 05-0047	RC 1/F Slab / beam and Walls/Column to R/F Commencement of E&M work in CLP Room G/F	29 0	20-Nov-23 11-Dec-23	19-Dec-23	
05-0048	CLP Inspection, Lead-in Cable & Connection	107	11-Dec-23	12-Apr-24	
5-0050 5-0051	RC Roof/U/RF slab/beam Commencement of E&M work in Transformer Room, G/F LV Switch Room	27 0	19-Dec-23 13-Jan-24	18-Jan-24	
)5-0052)5-0053	Transformer & LV Switch Room MEP Installation Building Envelope Enclosure	80 90	15-Jan-24 18-Jan-24	17-Apr-24 25-Apr-24	
05-0054 05-0055	ABWF, MEP Installation (G/F to R/F) CLP Power-ON Energisation	180 0	19-Jan-24	16-Aug-24 17-Apr-24	
05-0056	Completion of Process Building Structure with Watertightness Test	0		17-Apr-24	
05-0057 05-0058	Commencement of MEP Works in MCC Room, Control Room, Blower Room (VES / ATAL) MCC Room MEP Installation	0 80	18-Apr-24 19-Apr-24	22-Jul-24	
05-0059 05-0060	LV Switchboard System & Sitewide Distribution Commencement of MEP installation in Control Room	150 0	27-Apr-24 17-May-24	19-Oct-24	
05-0061	Control Room MEP Installation	130	17-May-24	16-Oct-24	
05-0062 05-0063	Control room, Blower MEP Installation Completion of All Process Building Works & Documentation and Ready for FS Inspection (2nd S	130 0	17-May-24	16-Oct-24 16-Oct-24	
05-0064 _FG Plant (+55	FS Inspection and Defects Rectification for Process Building (2nd Stage)	180 678	19-Oct-24 28-Jun-23	17-May-25 10-Jun-25	· · · · · · · · · · · · · · · · · · ·
05-0065	Substructure / Foundation works	90	28-Jun-23	26-Sep-23	
05-0066 05-0067	Handover of Foundation Top MEP Installation	0 450	08-Oct-23	26-Sep-23 22-Jan-25	
05-0068	Testing & Pre-Commissioning Ompd, +70mpd)	150 753	02-Jan-25 13-Nov-23	10-Jun-25 04-Dec-25	
05-0069	Substructure / Foundation works	86	13-Nov-23	09-Feb-24	
05-0070 05-0071	Ammonia Stripper Handover of Foundation Top	180 0	10-Feb-24	07-Sep-24 14-Feb-24	
05-0072	MEP Installation	510	14-Feb-24	01-Aug-25	
05-0073 05-0074	BS and Plant Equipment and Instrument Works (ramped provision from 60mpd - 70mpd) SBR Tanks	180 150	12-Feb-24 19-Feb-24	07-Sep-24 12-Aug-24	
05-0075 05-0076	DG Storage Area Licensing on DG Storage Area	150 270	14-Feb-24 13-Aug-24	20-Jul-24 25-May-25	
05-0077 05-0078	ABWF works Testing & Pre-Commissioning	210 150	09-Sep-24 04-Jul-25	12-May-25 04-Dec-25	
	ergound Drainage and Process Pipeworks	150 240	04-Jul-25 09-May-23	04-Dec-25 14-Jan-24	· · · · · · · · · · · · · · · · · · ·
-0079 -0080	Segment 3 - Excavation and Pipe Laying Works at Main EVA road LTW to LFG area Segment 1 chainage - Excavation and Pipe Laying Entrance to LFG bldg (Lane road 1 LHS)	60 60	13-Nov-23 09-May-23	14-Jan-24 11-Jul-23	Segmei
-0081	Segment 2 Chainage - Excavation and Pipe Laying Entrance to LFG bldg (Lane road 2 RHS)	60	08-Jul-23	06-Sep-23	
0082 TION A - EVA	Segment 4 chainage - Excavation and Pipe Laying at Process building round about Road Paving Works	60 203	06-Sep-23 12-Jan-24	09-Nov-23 14-Aug-24	
-0067.01	EVA Road Pavement Works from LTW to LFG Area	90	12-Jan-24	19-Apr-24	
-0067.02 -0067.03	EVA Road Pavement Works Within Process Building and Main Entrance Handover to Veolia	120 0	12-Apr-24	14-Aug-24 10-Aug-24	
	ing and Coordination	633	03-Aug-22	02-Jun-24	
-0083 -0084	Water Supply / WSD Power Supply / CLP	540 540	03-Aug-22 03-Aug-22	24-Feb-24 24-Feb-24	
-0085 -0086	NENT / NENTX Telecom	513 120	03-Aug-22 25-Jan-24	24-Jan-24 02-Jun-24	
RTION C - Was	te Reception Area	100	04-Feb-25	30-May-25	
5-0087 5-0089	Vehicle Wash Facility Upgrade Work Weighbridge Upgrade Work	100 75	04-Feb-25 04-Feb-25	30-May-25 01-May-25	
5-0091	Weighmaster House Refurbishment & Upgrade Work	75 75	04-Feb-25 04-Feb-25 04-Feb-25	01-May-25	
		15	U4-Feb-25	01-May-25	
-0092 -0093 -0094	Wheel Wash Bath Upgrade Work Guard House & Entrance Gate Upgrade Work General Area & Access Road	60 60	04-Feb-25 04-Feb-25	14-Apr-25 14-Apr-25	

Critical Remaining Work





NORTH EAST NEW TERRITORIES (NE

BASELINE PROGRAMME -INITIAL WORKS

Page 1 of 4

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ng from Portion A to Portion D buildings Cable Laying Site boundary from Portion A to CLP Transformer Room at Process Buildir Portion A - Remaining LV Cable and UG Duct Utilities Laying and Distribute to al		ings to Port	tion D											
Telecom Cable Duct / Cable Laying (Process Building to all site buil Backfilling and Reenstatement Works - Portion At	ldings)	-												
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Inspection +55mPD														
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RC External Wall L/GF RC G/F Slab / beam and Walls/Column to 1/F														
 RC 1/F Slab / beam and Walls/Column to R/F Commencement of E&M work in CLP Room G/F 														
CLP Inspection, Lead-in Cable & Connection RC Roof/U/RF slab/beam Commencement of E&M work in Transformer Room, G/F LV Switch	h Room													
Transformer & LV Switch Room MEP Installation														
ABWF, MEP Installation (G	/F to R/F)													
 Completion of Process Building Structure with Wa Commencement of MEP Works in MCC Room, C 	atertightne: Control Roo	ss Test om, Blower	Room (VES / ATAL)											
MCC Room MEP Installation		Sitewide D	Distribution											
♦ Commencement of MEP installation in Gont Control Room M Control Room, B Control room, B	MEP Installa													
 Completion of A 	I Process	Building W	orks & Documentation an FS Inspection and Defe	nd Ready ects Rect	y for FS h	spection (2n r Process B	nd Stage) Suilding (2n	d Stage)						
Substructure / Foundation works			V											
Handover of Foundation Top	MEP Ins	tallation												
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Substructure / Foundation works														
Handover of Foundation Top			MEP Inst	tallation										
BS and Plant Equipmen	nt and Instr	rument Wo	orks (ramped provision fro	om 60mp	od - 70mpc	1)								
DG Storage Area			Licensing on DG Stor ABWF works	rage Area	a									
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Segment 3 - Excavation and Pipe Laying Works at Main EVA road chainage - Excavation and Pipe Laying Entrance to LFG bldg (Lane road 1 LHS)	LTW to LF	G area												
egment 2 Chainage - Excavation and Pipe Laying Entrance to LFG bldg (Lane road 2 R Segment 4 chainage - Excavation and Pipe Laying Entrance to LFG bldg (Lane road 2 R														
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EVA Road Pavement Works		ocess Build	ding and Main Entrance											
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(PHASE 1)														
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Activity ID	Activity Name	OD	Start	Finish	2022 2023 2024 2025 2026 2027	
		054	25-Jan-22 A	04 Sep 24	Contract Contract	lun JAlug 66 6768
PORTION D - Accom Advanced Works			25-Jan-22 A	15-Jun-24		
05-00100	Topographic Survey GI Works	0 70	04-Aug-22	25-Apr-22 A 15-Oct-22	◆ Topographic Survey	
05-00102 05-00104	Existing Utility Diversion, Interface & Advanced Works Moving IN to completed Integrated Building Office - for IC/ER and construction project team	0		10-Oct-22 10-May-24	Existing Utility Diversion, Interface & Advanced Works Moving IN to completed Integrated Building Office - for IC/ER and construction project team	
05-0096 05-0097	Possession of Portion D Site Clearance & Temporary Access Roads	0 52	25-Jan-22 11-Mar-22	09-May-22	Possession of Portion D Site Clearance & Temporary Access Roads	
05-0098 05-0099	Duration at 2 Floor Level Temporary Site Office - IC/ER and construction project team Environmental Monitoring	690 26	18-Jun-22 25-Apr-22	15-Jun-24 24-May-22	Duration at 2 Floor Level Temporary Site Office - IC/ER and construction project team	
FIRE SERVICE BUI	LDING	501 95	11-Oct-22 11-Oct-22	24-Feb-24 19-Jan-23		
05-00105	Site Formation - Excavation / UG Utilities	60 7	11-Oct-22 10-Dec-22	09-Dec-22 16-Dec-22	Site Formation - Excavation / UG Utilities	
05-00107 Superstructure	RC Footing/Beam to G/F	28 393	17-Dec-22 20-Jan-23	19-Jan-23 16-Feb-24	RC Footing/Beam to G/F	
05-00108	G/F RC slab/beam and column and wall to 1/F 1/F RC slab/beam and column and wall to 2/F	22	20-Jan-23	14-Feb-23	G/F RC slab/beam and column and wall to 1/F	
05-00109 05-00110	Removal and clearing of falsework at G/F	25 8	15-Feb-23 16-Mar-23	12-Mar-23 24-Mar-23	Removal and clearing of falsework at G/F Z/F RC slab/beam and column and wall to R/F	
05-00111 05-00112	2/F RC slab/beam and column and wall to R/F Scaffolding installation within perimeter	25 65	12-Mar-23 12-Mar-23	07-Apr-23 16-May-23	Starbearrain within perimeter Starbearrain within perimeter Watertightness Test at G/F FS Tank Room	
05-00113 05-00114	Watertightness Test at G/F FS Tank Room R/F slab/beam	35 24	24-Mar-23 09-Apr-23	28-Apr-23 04-May-23	R/F slab/beam Removal and clearing of falsework at 1/F	
05-00115 05-00116 05-00117	Removal and clearing of falsework at 1/F Removal and clearing of falsework at 2/F Installation of Visitor / Cafeteria Pod at R/F	8	21-Apr-23 02-Jun-23 10-Jun-23	29-Apr-23 10-Jun-23 08-Sep-23	Installation of Visitor / Cafeteria Pod at R/F	
05-00117 05-00118 ABWF & E&M	Scaffolding removal within perimeter	8 298	08-Feb-24 01-May-23	16-Feb-24 24-Feb-24	Scaffolding removal within perimeter	
Ground Floor		283	01-May-23	08-Feb-24		
05-00119 05-00120	Ground Floor Access Date ABWF and Internal Finishes Works	0 70	01-May-23 23-Jul-23	04-Oct-23	 ♦ Ground Floor Access Date ▲ ABWF and Internal Finishes Works 	
05-00121 05-00122	BS Works / FS Pump Room and T&C BS Electrical Meter Room - Final Connection and T&C	70 30	03-Oct-23 09-Jan-24	12-Dec-23 08-Feb-24	B\$ Works / FS Pump Room and T&C BS Electrical Meter Room - Final Connection and T&C	
05-00123 1st Floor	WSD Water Meter Room and Final Connection	30 121	10-Nov-23 20-May-23	10-Dec-23 18-Sep-23	WSD Water Meter Room and Final Connection	
05-00124 05-00125	1st Floor Access Date ABWF and Internal Finishes Works	0 60	20-May-23 21-May-23	23-Jul-23	♦ 1st Floor Access Date ABWF and Internal Finishes Works	
05-00125 05-00126 2nd Floor	BS Works	60 125	20-Jul-23 11-Jul-23	18-Sep-23 13-Nov-23	BS Works	
05-00127	2nd Floor Access Date	0	11-Jul-23		◆ 2nd Floor Access Date → ABWF and Internat Finishes Works	
05-00128 05-00129 Boof Floor	ABWF and Internal Finishes Works BS Works	60 60	12-Jul-23 10-Sep-23	10-Sep-23 13-Nov-23 20-Dec-23	BS Works	
Roof Floor 05-00130	Roof Floor Access Date	122 0	20-Aug-23 20-Aug-23	20-Dec-23	♦ Roof Floor Access Date	
	ABWF and External Trellis Finishes Works BS and T&C Works	60	21-Aug-23 20-Oct-23	24-Oct-23 20-Dec-23	ABWF and External Trellis Finishes Works BS and T&C Works	
Visitor Cafeteri 05-00331	a POD Builders and ABWF Finishes Works	119 60	20-Oct-23 20-Oct-23	24-Feb-24 20-Dec-23	Builders and ABWF Finishes Works	
	BS and T&C Works	60 489	19-Dec-23 10-Dec-22	24-Feb-24 12-Apr-24	BS and T&C Works	
Substructure		101	10-Dec-22	29-Mar-23		
05-00133 05-00134	Site Formation - Excavation / UG Utilities	57	10-Dec-22 13-Feb-23	13-Feb-23 20-Feb-23	 Site Formation - Excavation / UG Utilities Installation of Earth Mat RC Footing/Beam to G/F 	
05-00135 Superstructure	RC Footing/Beam to G/F	37 379	21-Feb-23 30-Mar-23	29-Mar-23 12-Apr-24		
05-00136 05-00137	G/F RC slab/beam and column and wall to 1/F 1/F RC slab/beam and column and wall to 2/F	35 40	30-Mar-23 09-May-23	08-May-23 19-Jun-23	G/F RC slab/beam and column and wall to 1/F	
05-00138 05-00139	Removal and clearing of falsework at G/F 2/F RC slab/beam and column/wall to R/F	8 38	07-Jun-23 19-Jun-23	15-Jun-23 29-Jul-23	Removal and clearing of falsework at G/F Z/F RC slab/beam and coliµmn/wall to R/F	
05-00140 05-00141	Removal and clearing of falsework at 1/F R/F RC slab/beam and column/wall to UR slab/beam	8 40	19-Jul-23 29-Jul-23	27-Jul-23 07-Sep-23	 Removal and clearing of falsework at 1/F R/F RC slab/beam and column/wall to UR slab/beam 	
05-00142 05-00143	Scaffolding installation within perimeter Removal and clearing of falsework at 2/F	14 8	29-Jul-23 28-Aug-23	12-Aug-23 05-Sep-23	 Scaffolding installation within perimeter Removal and clearing of falsework at 2/F 	
05-00144 ABWF & E&M	Scaffolding removal and clearing within perimeter	24 281	19-Mar-24 16-Jun-23	12-Apr-24 23-Mar-24	Scaffolding removal and clearing within perimeter	
Ground Floor 05-00145	Ground Floor Access Date	232	16-Jun-23 16-Jun-23	03-Feb-24	Ground Floor Access Date	
05-00145	ABWF and Internal Finishes Works BS Works and Electrical Meter Room Final Connection	60 120	23-Jul-23 03-Oct-23	21-Sep-23 03-Feb-24	ABWF and Internal Finishes Works	
1st Floor		126	27-Jul-23	30-Nov-23	◆ 1st Floor Access Date	
05-00148 05-00149	1st Floor Access Date ABWF and Internal Finishes Works	0 60	27-Jul-23 28-Jul-23	26-Sep-23	ABWF and Internal Finishes Works BS Works	
05-00150 2nd Floor	BS Works	60 124	27-Sep-23 19-Sep-23	30-Nov-23 21-Jan-24		
05-00151 05-00152	2nd Floor Access Date ABWF and Internal Finishes Works	0 60	19-Sep-23 20-Sep-23	23-Nov-23	 ♦ 2nd Floor Access Date ▲ ABWF and Internal Finishes Works 	
05-00153 Roof Floor	BS Works	60 125	19-Nov-23 19-Nov-23	21-Jan-24 23-Mar-24	BS Works	
05-00154 05-00155	Roof Floor Access Date ABWF and External Trellis Finishes Works	0 60	19-Nov-23 20-Nov-23	22-Jan-24	 ♦ Roof Floor Access Date ▲ BWF and External Trellis Finishes Works 	
05-00156	BS/Liftand T&C Works AINTENANCE BUILDING	60	19-Jan-24 01-Mar-23	23-Mar-24 29-Jun-24	BS / Lift and T&C Works	
Substructure		113	01-Mar-23	28-Jun-23	Site Formation - Evenuation / L/C Milifore	
05-00157 05-00158	Site Formation - Excavation / UG Utilities Installation of Earth Mat	84	01-Mar-23 30-May-23	29-May-23 06-Jun-23	Site Formation - Excavation / UG Utilities Installation of Earth Mat RC Footing	
05-00159 Superstructure	RC Footing	21 259	07-Jun-23 29-Jun-23	28-Jun-23 13-Mar-24		
05-00160 05-00161	G/F to 1/F RC slab/beam and column works 1/F to 2/F RC slab/beam and column works	25 25	29-Jun-23 24-Jul-23	24-Jul-23 18-Aug-23	G/F to 1/F RC slab/beam and column works	
05-00162 05-00163	2/F to R/F RC slab/beam and column works Scaffolding installation within perimeter	26 40	18-Aug-23 18-Aug-23	13-Sep-23 27-Sep-23	2/F to R/F RC slab/beam and column works Scaffolding installation finite er Constallation finite er	
05-00164 05-00165	Removal and clearing of falsework at G/F R/F RC works slab / beam works	8 30	23-Aug-23 13-Sep-23	31-Aug-23 16-Oct-23	Removal and clearing of falsework at G/F F/F RC works slab / beam works Person of falsework at 1/F	
05-00166 05-00167	Removal and clearing of falsework at 1/F Removal and clearing of falsework at 2/F	8	17-Sep-23 13-Oct-23	25-Sep-23 21-Oct-23	Removal and clearing of falsework at 1/F Removal and clearing of falsework at 2/F Removal and clearing within perimeter	
05-00168 ABWF & E&M	Scaffolding removal and clearing within perimeter	22 277	20-Feb-24 26-Sep-23	13-Mar-24 29-Jun-24	Scaffolding removal and clearing within perimeter	
Ground Floor 05-00169	Ground Floor Access Date	148 0	26-Sep-23 26-Sep-23	21-Feb-24		
05-00170	ABWF and Internal Finishes Works BS Works / FS Pump Room and T&C	70 70	27-Sep-23 06-Dec-23	10-Dec-23 21-Feb-24	ABWF and Internal Finishes Works BS Works / FS Pump Room and T&C	
05-00172	BS Electrical Meter Room - Final Connection and T&C WSD Water Meter Room and Final Connection	30 30	15-Jan-24 15-Jan-24	14-Feb-24 14-Feb-24	BS Electrical Meter Room - Final Connection and T&C WSD Water Meter Room and Final Connection	
1st Floor 05-00174	1st Floor Access Date	128	22-Oct-23 22-Oct-23	27-Feb-24	◆ 1st Floor Access Date	
05-00174 05-00175 05-00176	ABWF and Internal Finishes Works BS Works	60 60	22-Oct-23 24-Oct-23 22-Dec-23	22-Dec-23 27-Feb-24	ABWF and Internal Finishes Works	
2nd Floor		125	21-Dec-23	24-Apr-24	♦ 2nd Floor Access Date	
05-00177 05-00178	2nd Floor Access Date ABWF and Internal Finishes Works BS Morte	60 60	21-Dec-23 22-Dec-23	27-Feb-24	♦ 2nd Floor Access Date	
05-00179 Roof Floor	BS Works		20-Feb-24 21-Dec-23	24-Apr-24 29-Jun-24		
05-00180	Roof Floor Access Date		21-Dec-23		NODTU F A OT NERVI TERRITORIEO (NENTX) LANDEUL EXTENSION Date Revision Checked A	pproved
	Remaining Le	evei of Effort			NORTH EAST NEW TERRITORIES (NENTX) LANDFILL EXTENSION Date Revision Checked A 08-Jul-22 EXTRACTED - ISSUED 14JAN2023 DW AY	1
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	Cilical Nenia	aining Work			BASELINE PROGRAMME - EXTRACTED (REV.3) INITIAL WORKS (PHASE 1)	
					Page 2 of 4	
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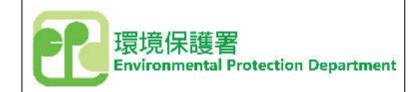
	Activity Name	OD	Start		Dec Jan I -1 1		022 Jul Aug Se 7 8 9	p Oct Nov Dec 10 11 12	2023 2 Jan Feb Mar Apr May Jun Jul Au 13 14 15 16 17 18 19 2
05-00182	ABWF and External Finishes Works External Staircase from Roof to Ground Floor	90 30	22-Dec-23 13-Mar-24	28-Mar-24 12-Apr-24					
	BS and T&C Works Lift works and T&C Works	60 100	21-Mar-24 21-Mar-24	26-May-24 29-Jun-24					
INTENANCE WO	RKSHOP	326 326	28-Aug-23 28-Aug-23	07-Aug-24 07-Aug-24					
ehicle 05-00185	Site Formation - Excavation / UG Utilities	90	28-Aug-23	30-Nov-23					
05-00186 05-00187	RC Footing and Bearing Wall ABWF / BS and T&C works	79 160	27-Nov-23 21-Feb-24	20-Feb-24 07-Aug-24					
	NGS (PORTION D) Site Formation - Excavation / UG Utilities	268	26-Nov-23	04-Sep-24 02-Mar-24					
5-00189	RC Works	90 90	26-Nov-23 24-Feb-24	30-May-24					
	ABWF / BS and T&C works ound Drainage and Pipe Laying Works	100 428	25-May-24 22-Aug-22	04-Sep-24 17-Nov-23			V		
00191 00192	Segment 1 - Excavation and Pipe Laying Works Portion A to Portion D - UG Drainage/Sewer Segment 2- Excavation and Pipe Laying Serving FS Building and Integrated Building - UG Dra	142 aiı 150	22-Aug-22 21-Jan-23	19-Jan-23 02-Jul-23					Segment 1 - Excavation and Pipe La
00193	Segment 3 - Excavation and Pipe Laying Serving Remaining Premises - UG Drainage / Sewer	r 144	20-Jun-23	17-Nov-23					
110N D - EVA Roa 1818	id Road Pavement Works Segment 1 - Main UG Drainage from Portion A to Portion D and Backfilling and Reenstatemen	424 nt 150	21-Jan-23 21-Jan-23	16-Apr-24 02-Jul-23					Segme
1819 1820	Segment 2- UG Drainage Serving FS Building and Integrated Building and Pavement Works Segment 3 - UG Drainage Serving Maintenance Workshop Buildings and other remaining pre	144	20-Jun-23 17-Nov-23	17-Nov-23 16-Apr-24					
spection Stages		357	17-Apr-24	26-Apr-25					
ge 1 FS Inspectio 5-00194	n Completion of All Works & Documentation on FS Building (Portion D) and Ready for FSD Insp	181 ec 0	17-Apr-24	22-Oct-24 17-Apr-24					
5-00195	1st FS Inspection and Defects Rectification	180	18-Apr-24	22-Oct-24					
ge 2 FS Inspectio 5-00196	n Completion of All Works & Documentation on other Accommodation Building, Workshop and A	180 An 0	17-Oct-24	26-Apr-25 17-Oct-24					
5-00197	2nd FS Inspection and Defects Rectification E3, E4, E1, B1 & B2	180 1402	18-Oct-24 25-Jan-22 A	26-Apr-25 27-Dec-25	~				
EA 0-A (E4 & B1)		1371	25-Jan-22 A	25-Dec-25	v -				
dvanced Works		150	25-Jan-22 A	01-Sep-22	~		V		
05-00251 05-00252	Possession of Area O-A Handover access	0	25-Jan-22 A 24-Feb-22 A		♦ F	Possession of Area O-A Handover access 			
05-00253	Access Haul Road works Initial Site Survey / Topographic Survey / Condition Survey	44 27	19-Jul-22 26-Mar-22	01-Sep-22 25-Apr-22		Initial Site	Survey / Topoa	ccess Haul Road raphic Survey / C	works ondition Survey
	Tree Survey Report	0 38	06-Apr-22	03-Apr-22 20-May-22		♦ Tree Survey F	Report		-
05-00257	Initial Site Survey / Topographic Survey / Condition Survey completion	0		25-Apr-22			Survey / Topog		ondition Survey completion Additional Borehole
05-00258 05-00259	Ground Investigation - Additional Borehole Ground Investigation - Additional Borehole completion (14 nos)	70 0	04-Jun-22	13-Aug-22 11-Aug-22					Additional Borehole Additional Borehole completion (14 nos)
andfill Site Forma	ation and Groundwater Trench Site Formation Start	1086 0	02-Sep-22 02-Sep-22	20-Oct-25				ite Formation Sta	rt:
05-00261	Excavation (soil)	349	03-Sep-22	07-Sep-23			-		Drainage surface Run OFF Perimete
05-00263	Drainage surface Run OFF Perimeter Channel Drainage surface Run OFF Collection House	126 150	03-Sep-22 07-Jan-23	15-Jan-23 16-Jun-23					Drainage surface Run OFF Perimete
05-00264 05-00265	Slope cut with soil nail and sprayed concrete Install Earth Bund	756 240	18-Aug-23 18-Aug-23	20-Oct-25 29-Apr-24					
05-00266 05-00267	Excavation (rock) Valley Drain	378 150	03-Mar-23 06-Jun-23	06-Apr-24 09-Nov-23					
	Settlement cell installation Toe Drain	314 163	03-Nov-23	28-Sep-24					
05-00269	Install Landfill Gas Pipe on Earth Bund	150	03-Nov-23 14-Apr-24	25-Apr-24 15-Sep-24					
05-00270 05-00271	Install Intercell Bund Install Leachate Force Main	150 518	14-Apr-24 14-Apr-24	15-Sep-24 06-Oct-25					
05-00272 05-00273	Install Pump Station and Associated Equipment (Sumphouses) Site Formation and Groundwater trench completion (1st stage)	516 0	14-Apr-24	04-Oct-25 14-Sep-24					
	Site Formation and Groundwater trench completion (2nd stage)	0 50	24-Jul-24	14-Sep-25 11-Sep-24					
05-00223	Trial Lining Works	35	24-Jul-24	27-Aug-24					
05-00224 andfill Liner Stag	Protective Stone Laying e 1-3 (Portion E4, & B1) - 1st Stage	15 210	28-Aug-24 14-Sep-24	11-Sep-24 12-Apr-25					
05-00274	Ready for lining works	0		14-Sep-24					
05-0167 05-0168	Lining Works Protective stone laying and Leachate Collection Pipe	120 60	16-Sep-24 01-Feb-25	01-Feb-25 12-Apr-25					
	Lining works completed le 1-3 (Portion E4, & B1) - 2nd Stage	0 102	14-Sep-25	12-Apr-25 25-Dec-25					
05-00275	Ready for lining works Lining Works	0 87	16-Sep-25	14-Sep-25 25-Dec-25					
05-1816	Lining works completed	0	16-Oct-25	25-Dec-25 25-Dec-25 25-Dec-25					
EA 0-B2 (Portion	Protective stone laying and Leachate Collection Pipe E3, B1 & E4)	719	25-Jan-22 A	13-Feb-24	~				
dvanced Works 05-00198	Possession of Area Q.P2	196	25-Jan-22 A	18-Sep-22		Possession of Area O-B2	~	7	
05-00199	Possession of Area O-B2 Tree Removal	0	25-Jan-22 A	23-Feb-22	↓ ↓	♦ Tree Removal			
05-00200 05-00201	Tree Survey Handover access	58 0	24-Feb-22 A 24-Feb-22 A	24-Apr-22 A		 ♦ Handover access 			
	Initial Site Survey / Topographic Survey / Condition Survey Ground Investigation - Additional Borehole	29 14	25-Apr-22 A 11-Aug-22	20-May-22 A 25-Aug-22		Initial	Gro	ound Investigation	y / Condition Survey
05-00204 05-00205	Ground Investigation - Additional Borehole completion Initial Site Survey / Topographic Survey / Condition Survey completion	0		25-Aug-22 23-May-22 A		Initial	♦ Gro	ound Investigation	Additional Borehole completion
05-00206	Tree Survey Report	0	/A + / ==	23-May-22 A			Survey Report		
	Access Haul Road works Site Haul Road completion	60 0	19-Jul-22	18-Sep-22 17-Sep-22				Access Haul Ro	
andfill Site Forma 05-00209	ation and Groundwater Trench Site Formation Start	331 0	13-Oct-22 13-Oct-22	26-Sep-23				✓ Site Format	lion Start
05-00210	Excavation(soil)	156	14-Oct-22	28-Mar-23					Excavation(soil)
05-00211 05-00212	Slope cut with soil nail and sprayed concrete Excavation(rock)	162 172	11-Apr-23 28-Mar-23	23-Sep-23 23-Sep-23					
05-00213 05-00214	Drainage surface Run OFF Perimeter Channel Install Earth Bund	84 54	28-Dec-22 28-Mar-23	28-Mar-23 27-May-23					Drainage surface Run C
05-00215 05-00216	Drainage surface Run OFF Collection House	94 58	28-Mar-23 27-May-23	08-Jul-23 26-Jul-23					Drair
05-00216.01	Settlement cell installation	98	15-Jun-23	23-Sep-23					
05-00217 05-00218	Install Landfill Gas Pipe on Earth Bund Toe Drain and Connection to Existing Drainage	88 60	27-Jun-23 26-Jul-23	23-Sep-23 24-Sep-23					
05-00219 05-00220	Valley Drain Install Pump Station and Associated Equipment (Sumphouses)	60 60	08-Jul-23 28-Jul-23	06-Sep-23 26-Sep-23					
05-00221	Install Leachate Force Main Site Formation and Groundwater trench completion	60 0	28-Jul-23	26-Sep-23 26-Sep-23					
andfill Liner Stag	es 1&2 (Portion E3, B1 & E4)	140	26-Sep-23	13-Feb-24					
05-00225 05-0191	Handover to VES - Ready for lining works Lining Works	0 120	26-Sep-23	26-Sep-23 13-Feb-24					
05-0192 05-0193	Protective stone laying and Leachate Collection Pipe Lining works completed	60 0	05-Dec-23	13-Feb-24 13-Feb-24					
EA 0-B1 (Portion		1040	25-Jan-22 A	12-Feb-25	V				
dvanced Works 05-00226	Possession of Area O-B1	187 0	25-Jan-22 A 25-Jan-22 A	25-Oct-22	✓ F	Possession of Area O-B1		V	
05-00227	Access Haul Road works	58	26-Aug-22	25-Oct-22		♦ Handover access		Access H	aul Road works
05-00228 05-00229	Handover access Commencement of Tree Removal	0	24-Feb-22 A 10-Apr-22	08-Jun-22				of Tree Removal	Next action Additional Description
05-00230 05-00231	Ground Investigation - Additional Borehole Issuance of Tree Survey Report	70 0	11-Aug-22	23-Oct-22 30-Apr-22 A			of Tree Survey	Report	vestigation - Additional Borehole
05-00232 05-00233	Initial Site Survey / Topographic Survey / Condition Survey completion Tree Removal completion	0		23-May-22 A 08-Jun-22			Site Survey / Tee Removal co		y / Condition Survey completion
05-00233	Ground Investigation - Additional Borehole completion (11nos)	0		20-Oct-22					vestigation - Additional Borehole completion
	Remaining Le	evel of Effort					N	ORTH EA	ST NEW TERRITORIE
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and the state of the state	Remaining W	'ork						BASE	ELINE PROGRAMN
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Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 ABWF and External Finishes Works	39 40 41 42 43 44 45 46 4	47 48	49 50 51	52 53 54 55 56 57 58 59 6	60 61 62 63 6	4 65 66 6768
External Staircase from Roof to Ground Floor BS and T&C Works						
Lift works and T&C Works						
v						
Site Formation - Excavation / UG Utilities						
RC Footing and Bearing Wall ABWF / BS and T&C works						
Site Formation - Excavation / UG Utilities RC Works						
ABWF / BS and T&C works						
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V						
lain UG Drainage from Portion A to Portion D and Backfilling and Reenstatement Works Segment 2- UG Drainage Serving FS Building and Integrated Building and Pavemen	t Works					
Segment 3 - UG Drainage Serving Maintenance Worksh	op Buildings and other remaining premises					
v						
 Completion of All Works & Documentation on FS Building 	(Portion D) and Ready for FSD Inspection					
1st FS Inspection and						
 Completion of All Works 	s & Documentation on other Accommodation B	uilding, Wo	rkshop and	Ancillary Ready for FSD Inspection		
	2nd FS Inspection and Defects Rec					
						
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Install Landin Gas Pipe on La						
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 Site Formation and Groundw 	ater trench completion (1st stage)	nation and	Groundwate	r trench completion (2nd stage)		
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Ready for lining works Lini Slope cut with soil nail and sprayed concrete Excavation(rock) meter Channel ace Run OFF Collection House rell Bund Settlement cell installation Install Landfill Gas Pipe on Earth Bund Toe Drain and Connection to Existing Drainage Iley Drain Install Leachate:Force Main Stale Formation and Associated Equipment (Sumphouses) Install Leachate:Force Main Stale Formation and Groundwater trench completion Handover to VES - Ready for lining works Lining Works Protective stone laying and Leachate Collection Pipe	Protective stone laying and Leachate Lining works completed	r lining wor	ks ining Works ining works o			
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Ready for lining works Lini Slope cut with soil nail and sprayed concrete Excavation(rock) meter Channel ace Run OFF Collection House rell Bund Settlement cell installation Install Landfill Gas Pipe on Earth Bund Toe Drain and Connection to Existing Drainage Iley Drain Install Leachate:Force Main Stale Formation and Associated Equipment (Sumphouses) Install Leachate:Force Main Star Protective stone laying and Leachate Collection Pipe	Protective stone laying and Leachate Lining works completed	r lining wor	ks ining Works ining works o			
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Activi	ty Name	OD	Start	Finish	Image: Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 Site Haul Road completion
	Haul Road completion	0		25-Oct-22	-1 1 2 3 4 3 0 7 0 9 10 11 12 13 14 15 16 17 18 19
	and Groundwater Trench	664	25-Oct-22	25-Sep-24	
	Formation Start	0	25-Oct-22	00 1 1 00	♦ Site Formation Start
	vation(soil) lage surface Run OFF Perimeter Channel	252 111	27-Oct-22 27-Oct-22	22-Jul-23 23-Feb-23	Drainage surface Run OFF
	hage surface Run OFF Collection House	85	24-Feb-23	24-May-23	Drainage s
05-00240 Slope	e cut with soil nail and sprayed concrete	401	22-Jul-23	14-Sep-24	
	vation(rock)	317	23-Jul-23	21-Jun-24	
	Drain and Connection to Existing Drainage	144	24-May-23	21-Oct-23	
	y Drain I Earth Bund	144	24-May-23 05-Feb-24	21-Oct-23 21-Jun-24	
	Formation and Groundwater trench completion	0	00-1 00-24	24-Sep-24	
05-00246 Instal	I Landfill Gas Pipe on Earth Bund	60	21-Jun-24	21-Aug-24	
	I Intercell Bund	59	21-Jun-24	20-Aug-24	
	ement cell installation	192	21-Oct-23	13-May-24	
	I Leachate Force Main I Pump Station and Associated Equipment (Sumphouses)	35 34	20-Aug-24 20-Aug-24	25-Sep-24 24-Sep-24	
andfill Liner Stage 1-2		140	25-Sep-24	12-Feb-25	
	lover to VES - Ready for lining works	0		25-Sep-24	
	g Works	120	26-Sep-24	12-Feb-25	
	ctive stone laying and Leachate Collection Pipe	60	04-Dec-24	12-Feb-25	
	g works completed	0		12-Feb-25	
a 0-D (Portion E1 & B2	2)/Access Road)	884	26-Jul-23	25-Dec-25	· · · · · · · · · · · · · · · · · · ·
dvanced Works		86	26-Jul-23	24-Oct-23	
	ession of Area O-D	0	26-Jul-23		• •
	Site Survey / Topographic Survey / Condition Survey	30	26-Jul-23	24-Aug-23	
	Survey Report	0 30	25-Aug-23	24-Aug-23 23-Sep-23	
	Site Survey / Topographic Survey / Condition Survey completion	30	20-Mug-23	23-Sep-23 24-Aug-23	1
	ss Haul Road works	56	25-Aug-23	23-Oct-23	
05-00307 Tree	Removal completion	0		23-Sep-23	
	Haul Road completion	0		24-Oct-23	
	and Groundwater Trench	690	24-Oct-23	12-Sep-25	
	Formation Start	0	24-Oct-23	40 5 1	
	vation (soil)	106	24-Oct-23	10-Feb-24	
	I Earth Bund and Pump Station vation (rock)	140 268	14-Feb-24 14-Feb-24	09-Jul-24 18-Nov-24	
05-00312 Exca 05-00313 Drain	age surface Run OFF Perimeter Channel	141	14-Feb-24	11-Jul-24	
	ement cell installation	200	10-Jul-24	26-Jan-25	
	I Landfill Gas Pipe on Earth Bund	193	10-Jul-24	25-Jan-25	
	age surface Run OFF Collection House	84	16-Nov-24	13-Feb-25	
	y Drain I Perimeter Leachate Forcemain	84 82	13-Feb-25 27-Jan-25	14-May-25 25-Apr-25	
05-00318 Toe D		118	15-May-25	12-Sep-25	
	Formation and Groundwater trench completion	0	10 may 20	12-Sep-25	
andfill Liner Stage 1&2	Portion E1 & B2)	101	15-Sep-25	25-Dec-25	
05-00320 Read	ly for lining works	0		15-Sep-25	
	g Works	60	16-Sep-25	24-Nov-25	
	ective stone laying and Leachate Collection Pipe	27	24-Nov-25	25-Dec-25 25-Dec-25	
05-0232.06 Lining EA 0-C (Portion E1,B1	g works completed	0 1231	11-Aug-22	25-Dec-25 25-Dec-25	·
		505	11-Aug-22	25-Jan-24	
dvanced Works 05-00276 Grou	nd Investigation - Additional Borehole	70		23-Oct-22	Ground Investigation - Additional Borehole
	nd Investigation - Additional Borehole completion (6 nos)	0	11-Aug-22	20-Oct-22	Ground Investigation - Additional Borehole complet
	ession of Area O-C	0	26-Jul-23		` ♦
	Site Survey / Topographic Survey / Condition Survey	56	25-Aug-23	23-Oct-23	
	Site Survey / Topographic Survey / Condition Survey completion	0	04.0	24-Oct-23	
	ss Haul Road works Survey / Tree Removal	60 90	24-Sep-23 25-Oct-23	26-Nov-23 25-Jan-24	
	Survey Report	90	25-001-25	23-Jan-24 28-Nov-23	
	Removal	0		22-Jan-24	
	Haul Road completion	0		22-Nov-23	
andfill Site Formation a	and Groundwater Trench	572	23-Jan-24	15-Sep-25	
	Formation Start	0	23-Jan-24		
05-00287 Exca	vation (soil)	160	23-Jan-24	13-Jul-24	
	e cut with soil nail and sprayed concrete	314	13-Jul-24	08-Jun-25	4
	vation (rock) age surface Run OFF Perimeter Channel	341 112	13-Jul-24 15-Mar-24	06-Jul-25 13-Jul-24	
	lage surface Run OFF Perimeter Channel	95	26-Feb-25	13-Jul-24 07-Jun-25	
	I Earth bund	83	10-Mar-25	07-Jun-25	
05-00293 Drain	age surface Run OFF Collection House	118	13-Jul-24	11-Nov-24	
	y Drain	117	13-Jul-24	10-Nov-24	
05-00294 Valley		70	06-Jul-25	14-Sep-25	
05-00294 Valley 05-00295 Instal	I Intercell Bund		10 1		
05-00294 Valley 05-00295 Instal 05-00295.01 Settle	ement cell installation	198	10-Nov-24 10-Nov-24	09-Jun-25 10-Mar-25	
05-00294 Valley 05-00295 Instal 05-00295.01 Settle 05-00296 Toe E	ement cell installation		10-Nov-24 10-Nov-24 07-Jul-25	10-Mar-25 15-Sep-25	
05-00294 Valley 05-00295 Instal 05-00295.01 Settle 05-00296 Toe I 05-00297 Instal	ement cell installation Drain	198 114	10-Nov-24	10-Mar-25	
05-00294 Valley 05-00295 Instal 05-00295.01 Settle 05-00296 Toe E 05-00297 Instal 05-00298 Instal 05-00299 Ster	ement cell installation Drain Il Pump Station and Associated Equipment (Sumphouses) Il Leachate Force Main Formation and Groundwater trench completion	198 114 70 70 0	10-Nov-24 07-Jul-25 07-Jul-25	10-Mar-25 15-Sep-25 15-Sep-25 15-Sep-25	
05-00294 Valley 05-00295 Instal 05-00295.01 Settle 05-00296 Toe E 05-00297 Instal 05-00298 Instal 05-00299 Ster	ement cell installation Drain Il Pump Station and Associated Equipment (Sumphouses) Il Leachate Force Main Formation and Groundwater trench completion	198 114 70 70	10-Nov-24 07-Jul-25	10-Mar-25 15-Sep-25 15-Sep-25	
05-00294 Valley 05-00295 Instal 05-00295.01 Settle 05-00296 Toe ID 05-00297 Instal 05-00298 Instal 05-00299 Ster andfill Liner Stage 18.2 05-00300	ement cell installation Drain Il Pump Station and Associated Equipment (Sumphouses) Il Leachate Force Main Formation and Groundwater trench completion ? (Portion E1, B1 & E4) Ily for lining works	198 114 70 70 0 100 0	10-Nov-24 07-Jul-25 07-Jul-25 16-Sep-25	10-Mar-25 15-Sep-25 15-Sep-25 15-Sep-25 25-Dec-25 16-Sep-25	
05-00294 Valley 05-00295 Instal 05-00295.01 Settle 05-00296 Toe D 05-00297 Instal 05-00298 Instal 05-00299 Site F andfill Liner Stage 18.2 05-00300 Read 05-0215 Lining	ement cell installation Drain I Pump Station and Associated Equipment (Sumphouses) I Leachate Force Main Formation and Groundwater trench completion (Portion E1, B1 & E4) Iy for lining works g Works	198 114 70 70 0 100 0 86	10-Nov-24 07-Jul-25 07-Jul-25 16-Sep-25	10-Mar-25 15-Sep-25 15-Sep-25 25-Dec-25 16-Sep-25 25-Dec-25	
05-00294 Valley 05-00295 Instal 05-00295.01 Settle 05-00296 Toe I 05-00297 Instal 05-00298 Instal 05-00298 Instal 05-00298 Ste F andfill Liner Stage 18.2 05-00300 05-0215 Lining 05-0216 Prote	ement cell installation Drain I Pump Station and Associated Equipment (Sumphouses) I Leachate Force Main Formation and Groundwater trench completion (Portion E1, B1 & E4) Ivg for lining works g Works ective stone laying and Leachate Collection Pipe	198 114 70 70 0 100 0 86 55	10-Nov-24 07-Jul-25 07-Jul-25 16-Sep-25	10-Mar-25 15-Sep-25 15-Sep-25 25-Dec-25 16-Sep-25 25-Dec-25 25-Dec-25 25-Dec-25	
05-00294 Valley 05-00295 Instal 05-00295.01 Settle 05-00296 Toe I 05-00297 Instal 05-00298 Instal 05-00299 Site F andfill Liner Stage 18.2 05-00300 05-00215 Lining 05-0216 Prote	ement cell installation Drain Il Pump Station and Associated Equipment (Sumphouses) Il Leachate Force Main Formation and Groundwater trench completion 2 (Portion E1, B1 & E4) Ily for lining works g Works ctive stone laying and Leachate Collection Pipe g works completed	198 114 70 70 0 100 0 86 55 0	10-Nov-24 07-Jul-25 07-Jul-25 16-Sep-25 16-Sep-25 22-Oct-25	10-Mar-25 15-Sep-25 15-Sep-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25	
05-00294 Valley 05-00295 Instal 05-00295.01 Settle 05-00296 Toe D 05-00297 Instal 05-00298 Instal 05-00298 Instal 05-00298 Instal 05-00299 Site F andfill Liner Stage 18.2 05-00300 Read 05-0215 Lining 05-0216 Prote 05-0217 Lining	ement cell installation Drain I Pump Station and Associated Equipment (Sumphouses) I Leachate Force Main Formation and Groundwater trench completion (Portion E1, B1 & E4) Ivg for lining works g Works ective stone laying and Leachate Collection Pipe	198 114 70 0 100 0 86 55 0 756	10-Nov-24 07-Jul-25 07-Jul-25 16-Sep-25 16-Sep-25 22-Oct-25 26-Oct-23	10-Mar-25 15-Sep-25 15-Sep-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 27-Dec-25	
05-00294 Valley 05-00295 Instal 05-00295 Instal 05-00295 Settle 05-00296 Toe ID 05-00297 Instal 05-00298 Instal 05-00298 Instal 05-00298 Instal 05-00299 Site F andfill Liner Stage 18.2 05-00300 05-0215 Lining 05-0216 Prote 05-0217 Lining Stachtart 0stechnical Retaining State State	ement cell installation Drain I Pump Station and Associated Equipment (Sumphouses) I Leachate Force Main Formation and Groundwater trench completion (Portion E1, B1 & E4) Ity for lining works g Works ective stone laying and Leachate Collection Pipe g works completed tructure & Access Road	198 114 70 0 100 0 86 55 0 756 756	10-Nov-24 07-Jul-25 07-Jul-25 16-Sep-25 22-Oct-25 26-Oct-23 26-Oct-23	10-Mar-25 15-Sep-25 15-Sep-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25	
05-00294 Valley 05-00295 Instal 05-00295 Instal 05-00296 Toe II 05-00297 Instal 05-00298 Instal 05-00299 Stet F andfill Liner Stage 1822 05-00300 Read 05-0215 Lining 05-0217 Lining 0stechnical Retaining St /est /est Wall 05-00321	ement cell installation Drain I Pump Station and Associated Equipment (Sumphouses) I Leachate Force Main Formation and Groundwater trench completion ? (Portion E1, B1 & E4) Ity for lining works g Works works completed tructure & Access Road * Wall Start Construction	198 114 70 0 100 0 86 55 0 756 756 0	10-Nov-24 07-Jul-25 07-Jul-25 16-Sep-25 22-Oct-25 26-Oct-23 26-Oct-23 26-Oct-23	10-Mar-25 15-Sep-25 15-Sep-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 27-Dec-25 27-Dec-25	
05-00294 Valley 05-00295 Instal 05-00295.01 Settle 05-00296 Toe I 05-00297 Instal 05-00298 Instal 05-00299 Site F andfill Liner Stage 82 05-00300 Read 05-0215 Lining 05-0217 Lining 05-0217 Lining 05-0217 Lining 05-0217 Lining 05-0217 Lining 05-0321 West 05-00321 West	ement cell installation Drain I Pump Station and Associated Equipment (Sumphouses) I Leachate Force Main Formation and Groundwater trench completion ? (Portion E1, B1 & E4) Ity for lining works g Works ctive stone laying and Leachate Collection Pipe g works completed tructure & Access Road ? Wall Start Construction ? Wall - Chainage 0+000 - 0+100	198 114 70 0 100 0 86 55 0 756 756 0 298	10-Nov-24 07-Jul-25 07-Jul-25 16-Sep-25 22-Oct-25 26-Oct-23 26-Oct-23 28-Oct-23	10-Mar-25 15-Sep-25 15-Sep-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 27-Dec-25 27-Dec-25 27-Dec-25 04-Sep-24	
05-00294 Valley 05-00295 Instal 05-00295.01 Settle 05-00296 Toe E 05-00297 Instal 05-00298 Instal 05-00299 Instal 05-00290 Instal 05-00290 Ster andfill Liner Stage 18.2 05-00300 05-0215 Lining 05-0216 Prote 05-0217 Lining 05-02217 Lining 05-0321 West 05-0322 West	ement cell installation Drain I Pump Station and Associated Equipment (Sumphouses) I Leachate Force Main Formation and Groundwater trench completion 2 (Portion E1, B1 & E4) Iv for lining works g Works citive stone laying and Leachate Collection Pipe g works completed tructure & Access Road Wall Start Construction Wall - Chainage 0+000 - 0+100 Wall - Chainage 0+100 - 0+200	198 114 70 70 0 100 0 86 55 0 756 756 0 298 190	10-Nov-24 07-Jul-25 07-Jul-25 16-Sep-25 22-Oct-25 26-Oct-23 26-Oct-23 28-Oct-23 28-Oct-23 05-Sep-24	10-Mar-25 15-Sep-25 15-Sep-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 27-Dec-25 27-Dec-25 27-Dec-25 04-Sep-24 22-Mar-25	
05-00294 Valley 05-00295 Instal 05-00295.01 Settle 05-00296 Tose 05-00297 Instal 05-00298 Instal 05-00299 Site F andfill Liner Stage 18.2 05-00299 05-00215 Lining 05-0216 Prote 05-0217 Lining 05-00321 West 05-00321 West 05-00322 West 05-00323 West 05-00324 West	ement cell installation Drain I Pump Station and Associated Equipment (Sumphouses) I Leachate Force Main Formation and Groundwater trench completion ? (Portion E1, B1 & E4) Ity for lining works g Works ctive stone laying and Leachate Collection Pipe g works completed tructure & Access Road ? Wall Start Construction ? Wall - Chainage 0+000 - 0+100	198 114 70 0 100 0 86 55 0 756 756 0 298	10-Nov-24 07-Jul-25 07-Jul-25 16-Sep-25 22-Oct-25 26-Oct-23 26-Oct-23 28-Oct-23	10-Mar-25 15-Sep-25 15-Sep-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 27-Dec-25 27-Dec-25 27-Dec-25 04-Sep-24	
05-00294 Valley 05-00295 Instal 05-00295.01 Settle 05-00296.01 Settle 05-00297 Instal 05-00298 Instal 05-00299 Site F andfill Liner Stage 18.2 05-00219 05-00215 Lining 05-0216 Prote 05-00217 Lining 05-00321 West 05-00321 West 05-00323 West 05-00324 West 05-00324 West 05-00324 West 05-00324 West	ement cell installation Drain I Pump Station and Associated Equipment (Sumphouses) I Leachate Force Main Formation and Groundwater trench completion 2 (Portion E1, B1 & E4) Ity for lining works g Works g Works ictive stone laying and Leachate Collection Pipe g works completed tructure & Access Road Wall Start Construction : Wall - Chainage 0+000 - 0+100 : Wall - Chainage 0+100 - 0+200 : Wall - Chainage 0+200 - 0+270	198 114 70 70 0 100 0 86 55 0 756 756 0 298 190 265	10-Nov-24 07-Jul-25 07-Jul-25 16-Sep-25 22-Oct-25 26-Oct-23 26-Oct-23 28-Oct-23 28-Oct-23 05-Sep-24	10-Mar-25 15-Sep-25 15-Sep-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 27-Dec-25 27-Dec-25 27-Dec-25 04-Sep-24 22-Mar-25 25-Dec-25	
05-00294 Valley 05-00295 Instal 05-00295.01 Settle 05-00296 Toe E 05-00297 Instal 05-00298 Instal 05-00299 Site F andfill Liner Stage 18.2 05-00209 05-00299 Site F andfill Liner Stage 18.2 05-00215 05-0216 Prote 05-0217 Lining 05-00321 West 05-00322 West 05-00323 West 05-00324 West 05-00325 West	ement cell installation Drain I Pump Station and Associated Equipment (Sumphouses) I Leachate Force Main Formation and Groundwater trench completion 2 (Portion E1, B1 & E4) Ity for lining works g Works g Works ictive stone laying and Leachate Collection Pipe g works completed tructure & Access Road Wall Start Construction : Wall - Chainage 0+000 - 0+100 : Wall - Chainage 0+100 - 0+200 : Wall - Chainage 0+200 - 0+270	198 114 70 0 0 0 0 0 0 0 0 0 756 0 298 190 265 0	10-Nov-24 07-Jul-25 07-Jul-25 16-Sep-25 22-Oct-23 26-Oct-23 26-Oct-23 26-Oct-23 05-Sep-24 24-Mar-25 11-Jun-24	10-Mar-25 15-Sep-25 15-Sep-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 27-Dec-25 27-Dec-25 27-Dec-25 27-Dec-25 27-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25	
05-00294 Valley 05-00295 Instal 05-00295 Instal 05-00296 Toe ID 05-00297 Instal 05-00298 Instal 05-00299 Ster F andfill Liner Stage 182 05-00299 Ster F andfill Liner Stage 182 05-00216 Prote 05-0217 Lining 05-00321 West 05-00323 West 05-00324 West 05-00325 West 05-00326 East 05-00326 East 05-00327 East	ement cell installation Drain I Pump Station and Associated Equipment (Sumphouses) I Leachate Force Main Formation and Groundwater trench completion (Portion E1, B1 & E4) Iy for lining works g Works g Works totive stone laying and Leachate Collection Pipe g works completed tructure & Access Road (Wall Start Construction Wall - Chainage 0+000 - 0+100 Wall - Chainage 0+200 - 0+270 Wall Completion	198 114 70 0 100 0 86 55 0 756 756 0 298 190 265 0 540	10-Nov-24 07-Jul-25 07-Jul-25 16-Sep-25 22-Oct-23 26-Oct-23 26-Oct-23 26-Oct-23 28-Oct-23 28-Oct-23 28-Oct-23 28-Oct-23 28-Oct-23 28-Oct-23	10-Mar-25 15-Sep-25 15-Sep-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 27-Dec-25 27-Dec-25 27-Dec-25 27-Dec-25 27-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25	
05-00294 Valley 05-00295 Instal 05-00295.01 Settle 05-00296 Toe ID 05-00297 Instal 05-00298 Instal 05-00299 Ster F andfill Liner Stage 1822 05-00290 Ster F andfill Liner Stage 1822 05-00215 Lining 05-0216 Prote 05-00321 West 05-00322 West 05-00323 West 05-00324 West 05-00325 West 05-00326 East 05-00327 East 05-00328 East	ement cell installation Drain I Pump Station and Associated Equipment (Sumphouses) I Leachate Force Main Formation and Groundwater trench completion ? (Portion E1, B1 & E4) Ity for lining works g Works ty for lining and Leachate Collection Pipe g works completed tructure & Access Road ? Wall Start Construction ? Wall Start Construction ? Wall - Chainage 0+000 - 0+100 ? Wall - Chainage 0+200 - 0+270 ? Wall Completion Wall Start Construction Wall Chainage 0+50 - 0+150 Wall - Chainage 0+150 - 0+300	198 114 70 0 0 0 86 55 0 756 756 0 298 190 265 0 298 190 265 0 540 0 193 188	10-Nov-24 07-Jul-25 07-Jul-25 16-Sep-25 22-Oct-25 26-Oct-23 26-Oct-23 28-Oct-23 28-Oct-23 05-Sep-24 24-Mar-25 11-Jun-24 11-Jun-24 13-Jun-24 30-Dec-24	10-Mar-25 15-Sep-25 15-Sep-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 27-Dec-25 27-Dec-25 27-Dec-25 27-Dec-25 24-Dec-25 24-Dec-25 24-Dec-25 28-Dec-24 17-Jul-25	
05-00294 Valley 05-00295 Instal 05-00295 Instal 05-00295 Instal 05-00295 Instal 05-00296 Toe E 05-00297 Instal 05-00298 Instal 05-00299 Site F andfill Liner Stage 18.2 05-00300 05-0215 Lining 05-0216 Prote 05-0217 Lining 05-00321 West 05-00322 West 05-00323 West 05-00324 West 05-00325 West 05-00326 East 05-0327 East 05-0328 East 05-0328 East 05-0329 East	ement cell installation Drain I Pump Station and Associated Equipment (Sumphouses) I Leachate Force Main Formation and Groundwater trench completion ? (Portion E1, B1 & E4) Ity for lining works g Works cetive stone laying and Leachate Collection Pipe g works completed tructure & Access Road ? Wall Start Construction ? Wall - Chainage 0+000 - 0+100 ? Wall - Chainage 0+200 - 0+200 ? Wall Completion Wall Construction Wall Start Construction Wall Start Construction Wall Start Construction Wall Start Construction Wall Start Construction Wall Chainage 0+50 - 0+150 Wall - Chainage 0+150 - 0+300 Wall - Chainage 0+300 - 0+415	198 114 70 0 100 0 86 55 0 756 756 0 298 190 265 0 298 190 265 0 540 0 193 188	10-Nov-24 07-Jul-25 07-Jul-25 16-Sep-25 22-Oct-23 26-Oct-23 26-Oct-23 28-Oct-23 28-Oct-23 05-Sep-24 24-Mar-25 11-Jun-24 11-Jun-24	10-Mar-25 15-Sep-25 15-Sep-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 27-Dec-25 27-Dec-25 27-Dec-25 25-Dec-25 27-Dec-25 24-Dec-25 24-Dec-24 17-Jul-25 24-Dec-25	
05-00294 Valley 05-00295 Instal 05-00295.01 Settle 05-00296 Toe E 05-00297 Instal 05-00298 Instal 05-00297 Instal 05-00298 Instal 05-00299 Site F andfill Liner Stage 18.2 05-00300 05-0215 Lining 05-0216 Prote 05-0217 Lining vechnical Retaining St Vest 05-00321 West 05-00323 West 05-00324 West 05-00325 West 05-00326 East 05-00327 East 05-00328 East 05-00329 East 05-00329 East 05-00329 East	ement cell installation Drain I Pump Station and Associated Equipment (Sumphouses) I Leachate Force Main Formation and Groundwater trench completion ? (Portion E1, B1 & E4) Ity for lining works g Works ty for lining and Leachate Collection Pipe g works completed tructure & Access Road ? Wall Start Construction ? Wall Start Construction ? Wall - Chainage 0+000 - 0+100 ? Wall - Chainage 0+200 - 0+270 ? Wall Completion Wall Start Construction Wall Chainage 0+50 - 0+150 Wall - Chainage 0+150 - 0+300	198 114 70 0 0 0 0 0 0 0 0 756 0 298 190 265 0 540 0 193 188 157 0	10-Nov-24 07-Jul-25 07-Jul-25 16-Sep-25 22-Oct-25 26-Oct-23 26-Oct-23 28-Oct-23 28-Oct-23 05-Sep-24 24-Mar-25 11-Jun-24 13-Jun-24 13-Jun-24 13-Jun-24 18-Jul-25	10-Mar-25 15-Sep-25 15-Sep-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 27-Dec-25 27-Dec-25 27-Dec-25 25-Dec-25 27-Dec-25 24-Dec-25 24-Dec-25 24-Dec-24 17-Jul-25 24-Dec-25 24-Dec-25	
05-00294 Valley 05-00295 Instal 05-00295 Instal 05-00295 Instal 05-00295 Instal 05-00296 Toe E 05-00297 Instal 05-00298 Instal 05-00299 Site F andfill Liner Stage 18.2 05-00300 05-0215 Lining 05-0216 Prote 05-0217 Lining 05-00321 West 05-00323 West 05-00324 West 05-00325 West 05-00326 East 05-00327 East 05-00328 East 05-00329 East 05-00329 East 05-00329 East 05-00329 East 05-00329 East 05-00320 East 05-00320 East 05-00320 East	ement cell installation Drain I Pump Station and Associated Equipment (Sumphouses) I Leachate Force Main Formation and Groundwater trench completion ? (Portion E1, B1 & E4) Ity for lining works g Works cetive stone laying and Leachate Collection Pipe g works completed tructure & Access Road ? Wall Start Construction ? Wall - Chainage 0+000 - 0+100 ? Wall - Chainage 0+200 - 0+200 ? Wall Completion Wall Construction Wall Start Construction Wall Start Construction Wall Start Construction Wall Start Construction Wall Start Construction Wall Chainage 0+50 - 0+150 Wall - Chainage 0+150 - 0+300 Wall - Chainage 0+300 - 0+415	198 114 70 0 100 0 86 55 0 756 0 298 190 265 0 193 188 157 0 485	10-Nov-24 07-Jul-25 07-Jul-25 16-Sep-25 22-Oct-25 26-Oct-23 26-Oct-23 28-Oct-23 28-Oct-23 05-Sep-24 24-Mar-25 11-Jun-24 13-Jun-24 13-Jun-24 13-Jun-24 18-Jul-25 12-Apr-24	10-Mar-25 15-Sep-25 15-Sep-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 27-Dec-25 27-Dec-25 27-Dec-25 25-Dec-25 27-Dec-25 24-Dec-25 24-Dec-25 24-Dec-25 24-Dec-25 24-Dec-25 09-Aug-25	
05-00294 Valley 05-00295 Instal 05-00295 Instal 05-00295 Instal 05-00295 Instal 05-00295 Instal 05-00297 Instal 05-00297 Instal 05-00298 Instal 05-00299 Site F andfill Liner Stage 18.2 05-00300 05-0215 Lining 05-0216 Prote 05-0217 Lining 05-00321 West 05-00322 West 05-00323 West 05-00324 West 05-00325 West 05-00326 East 05-00327 East 05-00328 East 05-00329 East 05-00300 East 05-00300 East 05-00300 East 05-00300 East 05-00300 East 05-00300 East 05-00300 East <	ement cell installation Drain I Pump Station and Associated Equipment (Sumphouses) I Leachate Force Main Formation and Groundwater trench completion ? (Portion E1, B1 & E4) Ity for lining works g Works g Works extive stone laying and Leachate Collection Pipe g works completed tructure & Access Road ? Wall Start Construction ? Wall Start Construction ? Wall - Chainage 0+100 - 0+100 ? Wall - Chainage 0+200 - 0+270 ? Wall Completion Wall Start Construction Wall Start Construction Wall Start Construction Wall Chainage 0+50 - 0+150 Wall - Chainage 0+150 - 0+300 Wall - Chainage 0+300 - 0+415 Wall Completion	198 114 70 0 0 0 0 86 55 0 756 0 298 190 265 0 193 188 157 0 485 150	10-Nov-24 07-Jul-25 07-Jul-25 16-Sep-25 22-Oct-23 26-Oct-23 26-Oct-23 26-Oct-23 28-Oct-23 05-Sep-24 24-Mar-25 11-Jun-24 13-Jun-24 13-Jun-24 13-Jun-24 18-Jul-25 12-Apr-24	10-Mar-25 15-Sep-25 15-Sep-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 27-Dec-25 27-Dec-25 27-Dec-25 27-Dec-25 25-Dec-25 24-Dec-25 24-Dec-25 24-Dec-25 24-Dec-25 24-Dec-25 24-Dec-25 09-Aug-25 03-Oct-24	
05-00294 Valley 05-00295 Instal 05-00295.01 Settle 05-00296 Toe D 05-00297 Instal 05-00297 Instal 05-00298 Instal 05-00299 Site F andfill Liner Stage 18.2 05-00215 05-00215 Lining 05-02216 Prote 05-0217 Lining 05-00321 West 05-00322 West 05-00323 West 05-00324 West 05-00325 West 05-00326 East 05-00327 East 05-00328 East 05-00329 East 05-00329 East 05-00329 East 05-00329 East 05-00329 East 05-00329 East 05-00320 East 05-00320 East 05-00320 East 05-00320 East <	ement cell installation Drain I Pump Station and Associated Equipment (Sumphouses) I Leachate Force Main Formation and Groundwater trench completion 2 (Portion E1, B1 & E4) By for lining works g Works g Works ctive stone laying and Leachate Collection Pipe g works completed tructure & Access Road 2 Wall Start Construction 2 Wall - Chainage 0+000 - 0+100 2 Wall - Chainage 0+100 - 0+200 3 Wall - Chainage 0+200 - 0+270 3 Wall Completion Wall Start Construction Wall Start Construction Wall Start Construction Wall - Chainage 0+50 - 0+150 Wall - Chainage 0+150 - 0+300 Wall - Chainage 0+300 - 0+415 Wall Completion	198 114 70 0 100 0 86 55 0 756 0 298 190 265 0 193 188 157 0 485	10-Nov-24 07-Jul-25 07-Jul-25 16-Sep-25 22-Oct-25 26-Oct-23 26-Oct-23 28-Oct-23 28-Oct-23 05-Sep-24 24-Mar-25 11-Jun-24 13-Jun-24 13-Jun-24 13-Jun-24 18-Jul-25 12-Apr-24	10-Mar-25 15-Sep-25 15-Sep-25 25-Dec-25 25-Dec-25 25-Dec-25 25-Dec-25 27-Dec-25 27-Dec-25 27-Dec-25 25-Dec-25 27-Dec-25 24-Dec-25 24-Dec-25 24-Dec-25 24-Dec-25 24-Dec-25 09-Aug-25	



Remaining Level of Effort
 Actual Work
 Remaining Work
 Critical Remaining Work
 Milestone

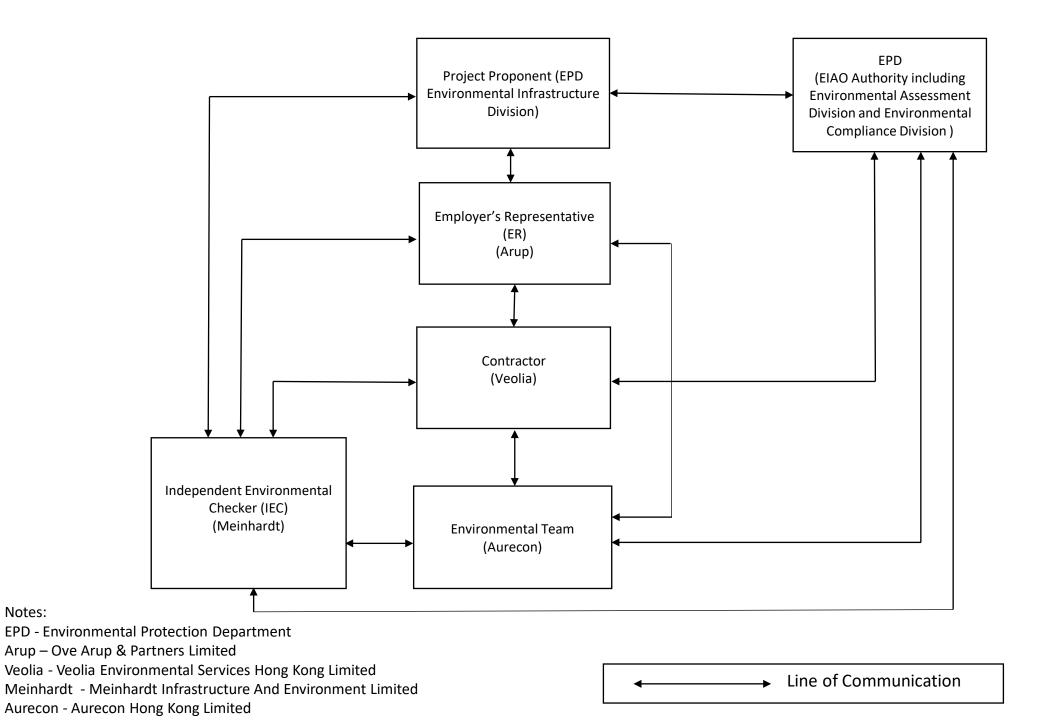
NORTH EAST NEW TERRITORIES (NE

BASELINE PROGRAMME - E INITIAL WORKS (Page 4 of 4

V Summary

Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Jun Jul Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Jun Jul Jun Jul Jun Jun Jun Jun Jun Jun Jun Jun Jun <th>2025 1ar Apr May Jun Jul Aug Sep Oct Nov Dec 39 40 41 42 43 44 45 46 47 48</th> <th>2026 c Jan Feb Mar Apr May Jun Jul Aug Sep Oct 3 49 50 51 52 53 54 55 56 57 58</th> <th>2027 Nov Dec Jan Feb Mar Apr May Jun J&ug 59 60 61 62 63 64 65 66 676\$</th>	2025 1ar Apr May Jun Jul Aug Sep Oct Nov Dec 39 40 41 42 43 44 45 46 47 48	2026 c Jan Feb Mar Apr May Jun Jul Aug Sep Oct 3 49 50 51 52 53 54 55 56 57 58	2027 Nov Dec Jan Feb Mar Apr May Jun J&ug 59 60 61 62 63 64 65 66 676\$
n(soil) Channel n OFF Collection House			
Slope cut with soil nail and spra Excavation(rock) Toe Drain and Connection to Existing Drainage Valley Drain Install Earth Bund Ste Formation and Groundw Install Landfill Gas Pipe on Earth Bu Install Intercell Bund Settlement cell installation Install Leachate Force Main Install Pump Station and Asso Handover to VES - Ready for Lini Pro	ater trench completion und ociated Equipment (Sumphouses)		
on of Area O-D I Site Survey / Topographic Survey / Condition Survey Survey Report Tree Removal I Site Survey / Topographic Survey / Condition Survey completion Access Haul Road works Tree Removal completion Site Haul Road completion Site Formation Start Excavation (soil) Excavation (rock)			
Install L	nent cell installation Landfill Gas Pipe on Earth Bund inage surface Run OFF Collection House Valley Drain Install Perimeter Leachate Forcemain Toe Drain Stite Formation ar Ready for lining	nd Groundwater trench completion ▼ works ing Works ■ Protective stone laying and Leachate Collection Pipe ↓ Lining works completed	
) n of Area O-C Initial Site Survey / Topographic Survey / Condition Survey Initial Site Survey / Topographic Survey / Condition Survey completion Access Haul Road works Tree Survey / Tree Removal Tree Survey Report Tree Removal Site Haul Road completion Site Formation Start			
Valley Drain	Install Landfill Gas Pipe on Earth Bi Install Earth bund In OFF Collection House Install Intercell Bu Settlement cell installation	Bund	
West Wall Start Construction	 Ready for lining 	and Groundwater trench completion ▼	
West Wall - Chainage 0+000 - 0+	West Wall - Chainage 0+100 - 0+200 Chainage 0+50 - 0+150 East Wall - Chainage 0+150	 West Wall - Chainage 0+200 - 0+270 West Wall Completion 0 - 0+300 East Wall - Chainage 0+300 - 0+4 15 East Wall Completion 	
Hard Landscaping	Landscaping Screen Planting Establishment of Screen Planting		
ENTX) LANDFILL EXTENSION	08-Ju	Date Revision JI-22 EXTRACTED - ISSUED 14JAN203	Checked Approved 23 DW AY
EXTRACTED (REV.3) (PHASE 1)			

Appendix B Project Organization Chart & Management Structure



Appendix C Monitoring Schedule for Reporting Month & Next Month

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

11-2023						
Sun	Mon	Tue	Wed	Thur	Fri	Sat
			1	2 Air quality monitoring at AM1, AM2 and AM3	3 Noise monitoring at NM1a and NM2a	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		10	11
12	13	14 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	15 Additional Air quality monitoring at AM2		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	1 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a Surface water quality monitoring at WM1 and WM2	2

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. Additional air quality monitoring at AM2 on 15 November 2023 due to the construction works on 8 November 2023.

6. Please arrange a Veolia staff to accompany our staff(s) to each locations for every monitoring.

12-2023						
Sun	Mon	Tue	Wed	Thur	Fri	Sat
					1 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	2
3	4	5	6	7 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	8	9
10	11	12	13 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	14	15	16
17	18	19 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a Surface water quality monitoring at WM1 and WM2		21	22	23 Air quality monitoring at AM1, AM2 and AM3
24 / 31	25	26	27	28	29 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	30

Remark:

1. The schedule is tentative only and would be subject to changes due to unforeseen circumstances.

2. Air quality monitoring includes 1-hour TSP and 24-hour TSP monitoring at AM1, AM2 and AM3 (Ref.: Table 3.1 of the approved EM&A Manual).

3. Noise monitoring includes 30-minute construction noise monitoring at NM1a and NM2a (Ref.: Table 4.1 of the approved EM&A Manual).

4. Surface water quality monitoring includes in-situ measurement and water sampling for laboratory analysis at WM1 and WM2 (Ref.: Table 5.5 and Section 5.5.6 of the approved EM&A Manual).

5. Please arrange a Veolia staff to accompany our staff(s) to each locations for every monitoring.

North East New Territories (NENT) Landfill Extension Monthly Environmental Monitoring and Audit Report (No. 12) – November 2023

Appendix D Calibration Certificates

Air Quality



HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

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

Ambient Condition

Actual Pressure during Calibration (P _a) (mm Hg):	1002.1	Actual Temperature during Calibration (T _a) (deg K):	299.0
------------------------------------------------------------------	--------	---------------------------------------------------------------------	-------

Calibration Orifice

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

Calibration Data					
Plate or	∆H₂O	Qa, X-Axis	I, CFM	IC, Y-Axis	
Test #	(in)	(m ³ /min)	(chart)	(corrected)	
18	13.00	2.137	53.0	60.76	
13	11.00	1.979	47.0	53.88	
10	9.00	1.807	44.0	50.44	
7	6.30	1.539	36.0	41.27	
5	4.50	1.327	28.0	32.10	

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

m= 34.0375

-12.1429 b=

Calculations

m = sampler slope

 $\begin{aligned} &\mathsf{Qa} = 1/m_{c}^{*}[\mathsf{Sqrt}\;(\Delta\mathsf{H}_{2}\mathsf{O}^{*}(\mathsf{P}_{a}/\mathsf{P}_{\mathsf{Std}})^{*}(\mathsf{T}_{\mathsf{Std}}/\mathsf{T}_{a}))\text{-}\;\mathsf{b}_{c}] \\ &\mathsf{IC} = \mathsf{I}^{*}(\mathsf{Sqrt}\;(\mathsf{P}_{a}/\mathsf{P}_{\mathsf{Std}})^{*}(\mathsf{T}_{\mathsf{Std}}/\mathsf{T}_{a})) \end{aligned}$

Qa = actual flow rate IC = corrected chart response

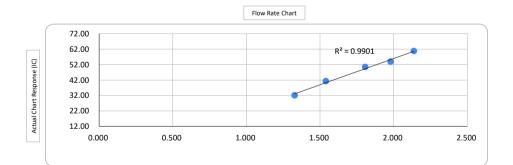
I = actual chart response $m_c = calibrator slope$

b_c = calibrator intercept

b = sampler intercept $T_{std} = 298 \text{ deg K}$ $P_{std} = 760 \text{ mm Hg}$ $T_a = actual temperature during calibration (deg K)$ $P_a = actual pressure during calibration (mm Hg)$

Corr. Coeff=

0.9950



Standard Flow Rate (m³/min)

Checked by: Tandy Tse ///// Senior Consultant, Environmental

Date: 04-Sep-2023



HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

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

Ambient Condition

Actual Pressure during Calibration (P _a) (mm Hg):	1012.0	Actual Temperature during Calibration (T_a) (deg K):	299.0
------------------------------------------------------------------	--------	--------------------------------------------------------	-------

Calibration Orifice

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

		Calibration Data		
Plate or	∆H₂O	Qa, X-Axis	I, CFM	IC, Y-Axis
Test #	(in)	(m³/min)	(chart)	(corrected)
18	13.40	2.179	57.0	65.73
13	9.60	1.870	50.0	57.65
10	7.00	1.622	46.0	53.04
7	4.00	1.268	40.0	46.12
5	2.00	0.946	34.0	39.21

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

m= 21.0403

b= 19.1736

Calculations

 $\begin{aligned} &\mathsf{Qa} = 1/m_{c}^{*}[\mathsf{Sqrt}\;(\Delta\mathsf{H}_{2}\mathsf{O}^{*}(\mathsf{P}_{a}/\mathsf{P}_{\mathsf{Std}})^{*}(\mathsf{T}_{\mathsf{Std}}/\mathsf{T}_{a}))\text{-}\;\mathsf{b}_{c}] \\ &\mathsf{IC} = \mathsf{I}^{*}(\mathsf{Sqrt}\;(\mathsf{P}_{a}/\mathsf{P}_{\mathsf{Std}})^{*}(\mathsf{T}_{\mathsf{Std}}/\mathsf{T}_{a})) \end{aligned}$

Qa = actual flow rate IC = corrected chart response

I = actual chart response m_c = calibrator slope

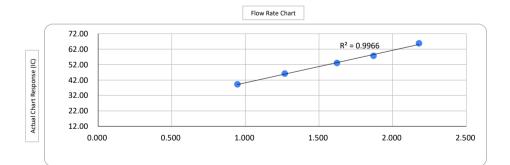
b_c = calibrator intercept

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

P_a = actual pressure during calibration (mm Hg)

Corr. Coeff=

0.9983



Standard Flow Rate (m³/min)

Checked by: Tandy Tse ///// Senior Consultant, Environmental

Date: 04-Nov-2023



	HIVOL SAMPL	ER CALI	BRATION	DATA SHEE	T (TSP)
		Site	e Information		
Location:	Representative For Heung Yuen Wai	Site ID:	AM2	Date:	04-Sep-2023
Serial No:	1106	Model:	TE-5170X	Operator:	Andy Li
	4				
		Amb	ient Condition	1 · · · ·	

	Calibration Office	5	
Model:	TE-5025A	Slope (m _c):	2.10188
Serial No.:	4166	Intercept (b _c):	-0.35800
Calibration Due Date:	19-Jun-24	Corr. Coeff:	0.99998

		Calibration Data		
Plate or	∆H₂O	Qa, X-Axis	I, CFM	IC, Y-Axis
Test #	(in)	(m³/min)	(chart)	(corrected)
18	11.00	1.979	60.0	68.78
13	9.40	1.842	56.0	64.20
10	7.00	1.613	49.0	56.17
7	4.60	1.340	42.0	48.15
5	3.60	1.205	40.0	45.85

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

30.2611 m=

8.3322 b=

Corr. Coeff=

0.9963

Calculations

m = sampler slope b = sampler intercept T_{std} = 298 deg K P_{std} = 760 mm Hg

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

Qa = actual flow rate IC = corrected chart response

I = actual chart response m_c = calibrator slope

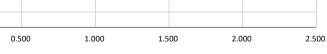
> 22.00 12.00

0.000

b_c = calibrator intercept

Actual Chart Response (IC)

 T_a = actual temperature during calibration (deg K) P_a = actual pressure during calibration (mm Hg) Flow Rate Chart 72.00 R² = 0.9925 62.00 52.00 -42.00 32.00



Standard Flow Rate (m³/min)

Checked by: Tandy Tse ///// Senior Consultant, Environmental

Date: 04-Sep-2023



HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)						
Site Information						
cation:	Representative For Heung	Site ID:	AM2	Date:	04-Nov-2023	

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

Ambient Condition						
Actual Pressure during Calibration (P _a) (mm Hg):	1012.0	Actual Temperature during Calibration (T _a) (deg K):	299.0			

Calibration	Orifice

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

Calibration Data						
Plate or	∆H₂O	Qa, X-Axis	I, CFM	IC, Y-Axis		
Test #	(in)	(m³/min)	(chart)	(corrected)		
18	12.00	2.071	55.0	63.42		
13	9.40	1.852	49.0	56.50		
10	6.40	1.558	43.0	49.58		
7	4.40	1.321	40.0	46.12		
5	2.40	1.020	33.0	38.05		

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

23.1977 m=

14.4432 b=

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)

Calculations

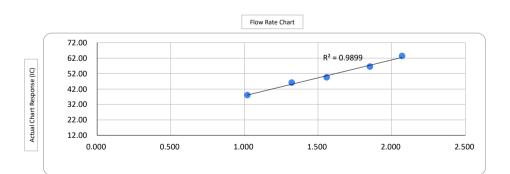
Corr. Coeff= 0.9950

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

Qa = actual flow rate

IC = corrected chart response I = actual chart response

m_c = calibrator slope b_c = calibrator intercept



Standard Flow Rate (m³/min)

Checked by: Tandy Tse ///// Senior Consultant, Environmental

Date: 04-Nov-2023



HIVOL SAMPLER CALIBRATION	DATA SHEET (TSP)
Site Information	1

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

Ambient Condition

Actual Pressure during Calibration (P_a) (mm Hg):	1002.1	Actual Temperature during Calibration (T _a) (deg K):	299.0
-------------------------------------------------------	--------	---------------------------------------------------------------------	-------

Calibration Orifice

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

Calibration Data						
Plate or	∆H₂O	Qa, X-Axis	I, CFM	IC, Y-Axis		
Test #	(in)	(m³/min)	(chart)	(corrected)		
18	13.50	2.174	55.0	63.05		
13	11.40	2.012	51.0	58.46		
10	9.10	1.816	48.0	55.03		
7	6.00	1.506	41.0	47.00		
5	4.00	1.261	38.0	43.56		

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

21.5825 m=

b= 15.5690

Calculations

Corr. Coeff= 0.9953

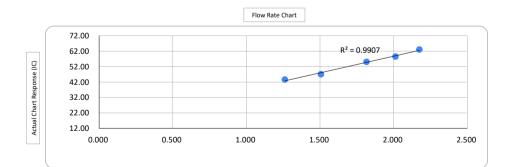
 $\begin{aligned} &\mathsf{Qa} = 1/m_{c}^{*}[\mathsf{Sqrt}\;(\Delta H_{2}\mathsf{O}^{*}(\mathsf{P}_{a}/\mathsf{P}_{\mathsf{Std}})^{*}(\mathsf{T}_{\mathsf{Std}}/\mathsf{T}_{a}))\text{-}\;\mathsf{b}_{c}] \\ &\mathsf{IC} = \mathsf{I}^{*}(\mathsf{Sqrt}\;(\mathsf{P}_{a}/\mathsf{P}_{\mathsf{Std}})^{*}(\mathsf{T}_{\mathsf{Std}}/\mathsf{T}_{a})) \end{aligned}$

Qa = actual flow rate IC = corrected chart response

I = actual chart response $m_c = calibrator slope$

b_c = calibrator intercept

 $\label{eq:main_state} \begin{array}{l} m = \text{sampler slope} \\ b = \text{sampler intercept} \\ T_{std} = 298 \ \text{deg K} \\ P_{std} = 760 \ \text{mm Hg} \\ T_a = \text{actual temperature during calibration (deg K)} \\ P_a = \text{actual pressure during calibration (mm Hg)} \end{array}$



Standard Flow Rate (m³/min)

Checked by: Tandy Tse ///// Senior Consultant, Environmental

Date: 04-Sep-2023



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

Actual Pressure during Calibration (P _a) (mm Hg):	1012.0	Actual Temperature during Calibration (T _a) (deg K):	302.3
-			

	Calibration	Orifice
--	-------------	---------

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

Calibration Data								
Plate or	$\Delta H_2 O$ Qa, X-Axis I, CFM IC, Y-Axis							
Test #	(in)	(m³/min)	(chart)	(corrected)				
18	12.40	2.092	57.0	65.37				
13	8.40	1.752	48.0	55.05				
10	6.40	1.551	44.0	50.46				
7	4.20	1.288	40.0	45.87				
5	2.40	1.016	34.0	38.99				

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

```
m= 23.8033
```

b= 14.4997

Corr. Coeff= 0.9949

Calculations

 $\begin{aligned} &Qa = 1/m_c^* [Sqrt (\Delta H_2 O^* (P_a/P_{Std})^* (T_{Std}/T_a)) - b_c] \\ &IC = I^* (Sqrt (P_a/P_{Std})^* (T_{Std}/T_a)) \end{aligned}$

Qa = actual flow rate IC = corrected chart response

I = actual chart response $m_c = calibrator slope$

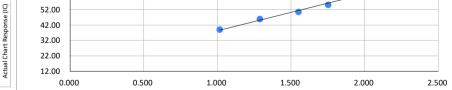
72.00

62.00

b_c = calibrator intercept

T_a = actual temperature during calibration (deg K) P_a = actual pressure during calibration (mm Hg) Flow Rate Chart R² = 0.9899

m = sampler slope b = sampler intercept T_{Std} = 298 deg K P_{Std} = 760 mm Hg



Standard Flow Rate (m³/min)

Checked by: Tandy Tse ///// Senior Consultant, Environmental

Date: 04-Nov-2023





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

Verification Test Date:	3-Dec-22	to	4-Dec-22
Next Verification Test Date:	2-Dec-23		
Unit-under-Test- Model No.	Sibata LD-5R		
Unit-under-Test Serial No.	0Z4545		
Our Report Refrence No.	RPT-22-HVS-0026		
Calibration Location:	AM2, Located near	the Lead	hate Treatment Works within the NENT Landfill

Standard Equipment Information							
Verification Equipment Type		Tisch TSP HVS	Tisch HVS Calibrator				
Standard Equipment Model No.		TE-5170X	TE-5025A				
Equipment serial no.	MFC	1106	3465				
Last Calibration Date		1-Dec-22	28-Jun-22				
Next Calibration Date		31-Jan-23	27-Jun-23				

Verification	Date	Time			K-Factor	Counts/ Minute (R)	Total Counts	TSP Sample	Dust Concentration (ug/m3), (C)
Test No.		Start-time	End-time	Elapsed Time (in min)	K-Factor (K=C/R)	x-axis	(TC)	ID No.	y axis
1	3/12/2022	194.73	198.08	201.00	0.00120	51	10251	R222043/1	61
2	3/12/2022	198.08	201.27	191.40	0.00102	34	6444	R222043/2	34
3	3/12/2022	201.27	204.35	184.80	0.00111	44	8193	R222043/3	49
4	4/12/2022	252.37	255.36	179.40	0.00122	55	9927	R222044/1	67
5	4/12/2022	255.38	258.38	180.00	0.00120	52	9360	R222044/2	62
6	4/12/2022	258.38	261.38	180.00	0.00112	63	11340	R222044/3	70
					0.00114				

1.1

By Linear Regression of y on x:

slope, mh=	1.3204
intercept,ch=	-8.3520
*Correlation Coefficient,R=	0.9780

Verification Test Result: Strong Correlation, Results were accepted.

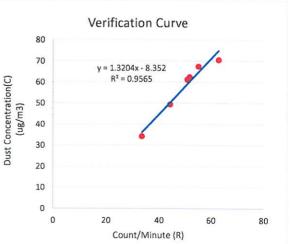
K-Factor to be inputted in LD-5R (corrected 1 decimal point):

* If the Correlation Coefficient, R is <0.5. Checking and Re-verification are required.

Verified By:

Date: 05-12-2022

Technical Mana







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

Verification Test Date:	3-Dec-22	to	4-Dec-22
Next Verification Test Date:	2-Dec-23		
Unit-under-Test- Model No .:	Sibata LD-5R		
Unit-under-Test Serial No .:	882106		
Our Report Refrence No .:	RPT-22-HVS-0027		
Calibration Location:	AM2, Located near	the Leac	hate Treatment Works

Standard Equipment Information							
Verification Equipment Type		Tisch TSP HVS	Tisch HVS Calibrator				
Standard Equipment Model No.		TE-5170X	TE-5025A				
Equipment serial no.	MFC	1106	3465				
Last Calibration Date		1-Dec-22	28-Jun-22				
Next Calibration Date		31-Jan-23	27-Jun-23				

Verification	Date		Time		K-Factor	Counts/ Minute (R)	Total Counts	TSP Sample	Dust Concentration (ug/m3), (C)
Test No.		Start-time	End-time	Elapsed Time (in min)	K-Factor (K=C/R)	x-axis	(TC)	ID No.	y axis
1	3/12/2022	194.73	198.08	201.00	0.00123	50	9983	R222043/1	61
2	3/12/2022	198.08	201.27	191.40	0.00092	37	7146	R222043/2	34
3	3/12/2022	201.27	204.35	184.80	0.00103	48	8870	R222043/3	49
4	4/12/2022	252.37	255.36	179.40	0.00108	62	11183	R222044/1	67
5	4/12/2022	255.38	258.38	180.00	0.00110	57	10260	R222044/2	62
6	4/12/2022	258.38	261.38	180.00	0.00108	65	11760	R222044/3	70
					0.00107				

1.1

within the NENT Landfill

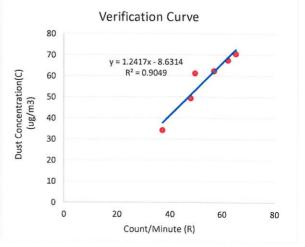
K-Factor to be inputted in LD-5R (corrected 1 decimal point):

By Linear Regression of y on x:

slope, mh=	1.2417
intercept,ch=	-8.6314
*Correlation Coefficient,R=	0.9513

Verification Test Result: Strong Correlation, Results were accepted.

 \ast If the Correlation Coefficient, R is <0.5. Checking and Re-verification are required.



Verified By:

Date: 05-12-2022

Technical Manager





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

Verification Test Date:	3-Dec-22	to	4-Dec-22
Next Verification Test Date:	2-Dec-23		
Unit-under-Test- Model No.	Sibata LD-5R		
Unit-under-Test Serial No.	942532		
Our Report Refrence No.	RPT-22-HVS-0024		
Calibration Location:	AM2, Located near	the Lead	chate Treatment Works within the NENT Landfill

Standard Equipment Information							
Verification Equipment Type		Tisch TSP HVS	Tisch HVS Calibrator				
Standard Equipment Model No.		TE-5170X	TE-5025A				
Equipment serial no.	MFC	1106	3465				
Last Calibration Date		1-Dec-22	28-Jun-22				
Next Calibration Date		31-Jan-23	27-Jun-23				

Verification	Date	Time		Time K-Factor Minut	Counts/ Minute (R)		TSP Sample	Dust Concentration (ug/m3), (C)	
Test No.		Start-time	End-time	Elapsed Time (in min)	K-Factor (K=C/R)	x-axis	(TC)	ID No.	y axis
1	3/12/2022	194.73	198.08	201.00	0.00111	55	11122	R222043/1	61
2	3/12/2022	198.08	201.27	191.40	0.00093	37	7082	R222043/2	34
3	3/12/2022	201.27	204.35	184.80	0.00110	45	8316	R222043/3	49
4	4/12/2022	252.37	255.36	179.40	0.00113	60	10704	R222044/1	67
5	4/12/2022	255.38	258.38	180.00	0.00120	52	9360	R222044/2	62
6	4/12/2022	258.38	261.38	180.00	0.00104	68	12180	R222044/3	70
					0.00108				

1.1

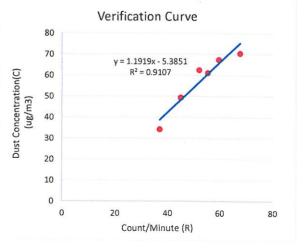
K-Factor to be inputted in LD-5R (corrected 1 decimal point):

By Linear Regression of y on x:

slope, mh=	1.1919
intercept,ch=	-5.3851
*Correlation Coefficient,R=	0.9543

Verification Test Result: Strong Correlation, Results were accepted.

 \ast If the Correlation Coefficient, R is <0.5. Checking and Re-verification are required.



Verified By: Technical Manager

Date: 05-12-2022



RECALIBRATION DUE DATE: June 19, 2024

Certificate of Calibration

			Calibration	Certifica	tion Informa	tion		
Cal. Date:	Koutsmeter				I: 438320	Та	: 294	°K
Operator:	Jim Tisch						: 754.9	mm Hg
Calibration	Model #:	TE-5025A	Calil	brator S/N	: 4166			mm ng
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ		1
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)		
	1	1	2	Contraction of the local division of the loc	1.4500	3.2	(in H2O) 2.00	
	2	3	4		and the second se	6.4		
	3	5	6	1	and the second se	8.0		
	4	7	8	1	and the state of t	8.8		
l	5	9	10	1	0.7240	12.8	0.00	
			D	ata Tabula	ation			
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$)(<u>Tstd</u>) Ta)		Qa	√∆Н(та/Ра)	
ļ	(m3)	(x-axis)	(y-axi	s)	Va	(x-axis)	(y-axis)	
ŀ	1.0025	0.6914	1.419	0	0.9958	0.6867	0.8826	
Ļ	0.9983	0.9730	2.006	8	0.9915	0.9664	1.2481	
ŀ	0.9961	1.0863	2.243	6	0.9894	1.0790	1.3955	
ŀ	0.9951	1.1346	2.353		0.9883	1.1270	1.4636	
-	0.9897	1.3670	2.8380	the second s	0.9830	1.3578	1.7651	
	OCTO	m=	2.1018			m=	1.31616	
	QSTD	b= r=	-0.0358			b=	-0.02227	
			0.9999	8		r=	0.99998	
L				Calculation	าร			
	Vstd= ∆	Vol((Pa-∆P)/	Pstd)(Tstd/Ta)		Va= A	Vol((Pa-∆P)/Pa)	
-	Qstd= V	std/∆Time				'a/ΔTime		
-		and the second	For subseque	nt flow rat	e calculation	5:		
	Qstd= $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$)-b)	Qa= 1	/m((√ΔH(Ta/Pa))-b)	
	Standard C	onditions		the second s	ana ana amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o amin'ny faritr'o a			
Tstd:	298.15 °K			Г		RECALL	BRATION	
Pstd:	760 m			F		and the set of the second second second second	and the second	
· calibrator	Ker	V			US EPA recon	nmends anr	nual recalibration	per 1998
rootsmeter	r manometer	reading (in I er reading (m	120)		40 Code of	Federal Re	gulations Part 50	to 51,
actual abso	lute tempe	rature (°K)	III Hg)		Appendix B t	o Part 50, F	Reference Method	for the
actual baro	metric pres	sure (mm Hg	r)		Determinatio	n of Susper	ded Particulate N	latter in
ntercept					the A	tmosphere	e, 9.2.17, page 30	
slope				L		North Statement of Statement		

Tisch Environmental, Inc. 145 South Miami Avenue

Village of Cleves, OH 45002

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

<u>Noise</u>



Manufacturer Calibration Certificate

The following instrument has been tested and calibrated to the manufacturer specifications. The calibration is traceable in accordance with ISO/IEC 17025 covering all instrument functions.

- Device Type: XL2 Audio and Acoustic Analyzer
- Serial Number: A2A-13663-F0

- Certificate Issued: 15 February 2023
- Certificate Number: 44972-A2A-13663-F0
- Results:

PASSED (for detailed report see next page)

Tested by:

Signature:

Stamp:

M. Frick Audio AG NI Im alten Rist 102 LI - 9494 Schaan www.nti-audio.com

Calibration of:	XL2 Audio and Acoustic Analyzer
Serial Number:	A2A-13663-F0
Date:	15 February 2023

· Detailed Calibration Test Results:

RMS Level @ 1kHz, XLR I	reference nput 0.1 1 10	actual 0.100 0.999 9.982	unit V V V	actual error ≤0.1% -0.1% -0.2%	XL2 tolerance ±0.5% ±0.5% ±0.5%	calibration uncertainty ² $\pm 0.10\%$ $\pm 0.09\%$ $\pm 0.09\%$
riddrood, rizi i input	20 Hz 1 20 kHz 1	0.995 1.003	V V	-0.5% 0.3%	±1.1% ±1.1%	±0.09% ±0.09%
Frequency	1000	1000.00	Hz	≤0.003%	±0.003%	±0.01%
Residual Noise	XLR	< 2 uV			<2 uV	±0.50%
THD+N @ 0 dBu, 1 kHz, X	(LR Input	-100.5	dB		typ100 dB	±0.50%

- 24.9 °C Temperature: Test Conditions: 19.8 % **Relative Humidity:**
- · Calibration Equipment Used:
- Agilent Multimeter, Typ 34401A, Serial No. MY 5300 4607 Last calibration: 15.09.2022, Next calibration: 15.09.2023 Calibrated by ELCAL to the national standards maintained at Swiss Federal Office of Metrology. SCS 0002

- FX100 Audio Analyzer, Serial No. 10408 Last Calibration: 11.10.2022, Next Calibration: 11.10.2023 Manufacturer calibration based on Agilent 34410, Serial No. MY47014254, Last Calibration: 26.05.2022, Next Calibration: 26.05.2023 which is calibrated by ELCAL to national standards maintained at Swiss Federal Office of Metrology. SCS 002

¹ The specified tolerance +/-0.1 dB @ 1V = +/-1.1%

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

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:

\checkmark	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

Date of issue: 3 August 2023

Certified by:

Mr. Ng Yan Wa Laboratory Manager



Page 1 of 2

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

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

Calibration Precautions: 1.

- 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	Туре	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	Accept lower level	Accept upper level	Measured value
dB	dB	dB	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.



Page 2 of 2

Certificate No.: APJ23-049-CC003



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 Ho	ng 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	1
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

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Calibration Certificate

Certificate No. 300737

Page 2 of 2 Pages

Results :

1. Velocity

Applied Value (m/s)	UUT Reading (m/s)	Mfr's Spec.
0.00	0.00	
2.50	2.43	
5.00	5.04	
10.00	10.07	\pm (3 % of reading + 0.3 m/s)
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 : \pm (0.9 % + 0.16 m/s) for Velocity, \pm 0.1 °C for Temperature, for a confidence probability of not less than 95 %.
- 3. Atmospheric Pressure: 1 002 hPa

----- END -----

Water Quality



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Amendment Test Report No. Amendment Test Report Date of Issue : R-BC090067 : 20 September 2023

: D-BC080079

: 25 August 2023

Superseded Test Report No. Superseded Test Report Date of Issue

Page No.

: 1 of 2

PART A - CUSTOMER INFORMATION

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

PART B - SAMPLE INFORMATION

Name of Equipment :	HORIBA U-53
Manufacturer :	HORIBA
Serial Number :	PPHNOMXY
Date of Received :	22 August 2023
Date of Calibration :	22 August 2023
Date of Next Calibration :	21 November 2023
Request No. :	D-BC080079

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

<u>Test Parameter</u>	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	4.16	0.16	Satisfactory	
7.42	7.56	0.14	Satisfactory	
10.01	9.92	-0.09	Satisfactory	

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

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
18	19.15	1.15	Satisfactory
28	27.79	-0.21	Satisfactory
37	36.58	-0.42	Satisfactory

Tolerance of Temperature should be less than \pm 2.0 ($^{\circ}C$)

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning Assistant Manager



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Amendment Test Report No.	: R-BC090067
Amendment Test Report Date of Issue	: 20 September 2023
Superseded Test Report No.	: D-BC080079
Superseded Test Report Date of Issue	: 25 August 2023
Page No.	: 2 of 2

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	10.11	1.10	Satisfactory
20	21.27	6.35	Satisfactory
30	32.28	7.60	Satisfactory

Tolerance of Salinity should be less than \pm 10.0 (%)

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
7.50	7.88	0.38	Satisfactory
6.31	6.76	0.45	Satisfactory
1.11	1.29	0.18	Satisfactory
0.07	0.00	-0.07	Satisfactory

Tolerance of Dissolved oxygen should be less than $\pm\,0.5$ (mg/L)

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.98		Satisfactory
10	10.7	7.00	Satisfactory
20	20.7	3.50	Satisfactory
100	107	7.00	Satisfactory
800	807	0.90	Satisfactory

Tolerance of Turbidity should be less than \pm 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 ---



Calibration Certificate

Certificate No	o. 300745		Page 1 of 2 Pages
Customer	Acuity Sustainability Consulting	g Limited	
Address :	Unit E, 12/F, Ford Glory Plaza	, No. 37-39 Wing Ho	ng Street, Cheung Sha Wan, Kowloon, H.K.
Order No. :	Q30320	C. C. C.	Date of receipt : 2-Feb-23
Item Tester	d		
Description	: Global Flow Probe		
Manufacturer	: Global Water		I.D. :
Model	: FP111		Serial No. : 22K100858
Test Condi	tions		
Date of Test :	27-Mar-23		Supply Voltage :
Ambient Tem			Supply Voltage : Relative Humidity : 75%
Test Specif			rotative framaty . 75%
-			
Calibration che			
Ref. Documen	t/Procedure : V12		
Test Result	9		
	-		
	within the manufacturer's specif	ication.	
The results are	shown in the attached page(s).		
Main Test equi	nment used:		
Equipment No.		Cert. No.	Treeseshier
S179	Std. Tape	301321	Traceable to
S136A	Stop Watch	201878	NIM-PRC
		201070	SCL-HKSAR
overloading, mis-ha	value for the equipment long term drift, v	variations with environmer pratory to repeat the meas	he time of the test and any uncertainties quoted ntal changes, vibration and shock during transportation, surement. Hong Kong Calibration Ltd. shall not be liable
The test equipment The test results app	used for calibration are traceable to Inte ly to the above Unit-Under-Test only	rnational System of Units	(SI), or by reference to a natural constant.
			10
Calibrated by	M	Appr	roved by:
	Kin Wong		Alan Chu
This Certificate is issued b	y:	Data	
Hong Kong Calibration Ltd		Date:	27-Mar-23



Calibration Certificate

Certificate No. 300745

Page 2 of 2 Pages

Results :

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

Remarks : 1. UUT : Unit-Under-Test

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

----- END -----

Landfill Gas

CERTIFICATION **OF CALIBRATION**





Date Of Calibration: 31-Aug-2023

Certificate Number: G505207_1/33483

Issued by: QED Environmental Systems Ltd.

Customer:	Onuee Electronics Ltd
	C3-E TCL Science Park No.1001 Zhong Shan Yuan Rd. Nanshan Shenzhen 518052 CHINA
Description:	Gas Analyser
Model:	GEM5000
Serial Number:	G505207

UKAS Accredited results:

Results after adjustment :

	Methane (CH₄)											
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

Page 1 of 2 | LP015GIUKAS-2.5

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

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

CERTIFICATION **OF CALIBRATION**





Certificate Number: G505207_1/33483

Date Of Calibration: 31-Aug-2023

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						
		1						
Date of Issue : 07-Sep-2023 Approved	by Signatory	Fani Zolota						

End of Certificate

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

Calibration Instance: 117 IGC Instance: 117

Page 2 of 2 | LP015GIUKAS-2.5

Laboratory Inspection

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

North East New Territories (NENT) Landfill Extension Monthly Environmental Monitoring and Audit Report (No. 12) – November 2023

Appendix E Monitoring Results

Air Quality

1-hour TSP Concentration (µg/m³) at Location AM1

Date	Equipment	Equipment	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level
Date	Brand & Model	Serial No.	N-lactor	weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (S)	µg/m ³	µg/m³	µg/m ³	µg/m ³	µg/m³	µg/m ³
2/11/2023	Sibata LD-5R	882106	0.00107	Fine	8:16	9:16	10:16	29	31	28	29		
8/11/2023	Sibata LD-5R	882106	0.00107	Fine	13:16	14:16	15:16	29	36	34	33		
14/11/2023	Sibata LD-5R	882106	0.00107	Fine	13:01	14:01	15:01	26	27	23	25	285	500
20/11/2023	Sibata LD-5R	882106	0.00107	Fine	8:10	9:10	10:10	22	29	23	25		
25/11/2023	Sibata LD-5R	882106	0.00107	Fine	8:16	9:16	10:16	26	31	28	28		
							Average		28				
							Max.		36				
							Min.		22				
											1		

<u>1-hour TSP Concentration (µg/m³) at Location AM2</u>

Date	Equipment	Equipment	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level
Duto	Brand & Model	Serial No.	it labter	mouthor	oumphing rinto (1)			µg/m ³	µg/m³	µg/m³	µg/m ³	µg/m³	µg/m ³
2/11/2023	Sibata LD-5R	0Z4545	0.00114	Fine	8:59	9:59	10:59	34	36	36	35		
8/11/2023	Sibata LD-5R	942532	0.00108	Fine	13:12	14:12	15:12	36	38	39	38		
15/11/2023	Sibata LD-5R	0Z4545	0.00114	Fine	13:36	14:36	15:36	31	30	32	31	279	500
20/11/2023	Sibata LD-5R	942532	0.00108	Fine	8:25	9:25	10:25	31	34	32	32		
25/11/2023	Sibata LD-5R	942532	0.00108	Fine	8:30	9:30	10:30	32	39	34	35		
							Average		34				
							Max.		39				
							Min.		30				

1-hour TSP Concentration (µg/m³) at Location AM3

Date	Equipment	Equipment	K-factor	Weather	Sampling Time (1)	Sampling Time (2)	Sampling Time (3)	Reading (1)	Reading (2)	Reading (3)	Average	Action Level	Limit Level
Dute	Brand & Model	Serial No.	It laotoi	Weather				µg/m ³					
2/11/2023	Sibata LD-5R	942532	0.00108	Fine	8:25	9:25	10:25	31	40	36	36		
8/11/2023	Sibata LD-5R	0Z4545	0.00114	Fine	13:39	14:39	15:39	39	41	43	41		
14/11/2023	Sibata LD-5R	0Z4545	0.00114	Fine	13:30	14:30	15:30	36	39	35	37	285	500
20/11/2023	Sibata LD-5R	0Z4545	0.00114	Fine	8:20	9:20	10:20	31	33	30	31		
25/11/2023	Sibata LD-5R	0Z4545	0.00114	Fine	8:55	9:55	10:55	35	39	41	38		
							Average		37				
							Max.		43				
							Min.		30				

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

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse	e Time	Sampling Time	Averaged Flow Rate	Averaged Flow Rate	Total Flow Volume	Filter W	eight (g)	Particulate weight	Concentration	Action Level	Limit Level
Start Date	weather Condition	(°C)	(hPa)	Initial	Final	(minutes)	(cfm)	(m ³ /min)	(m ³)	Initial	Final	(g)	(µg/m ³)	(µg/m ³)	(µg/m3)
2/11/2023	Fine	28.8	1014.6	1861.01	1885.01	1440	40	1.53	2198	2.6298	2.8522	0.2224	101		
8/11/2023	Fine	26.7	1015.6	2113.03		1440	40	0.99	1424	2.7177	2.8782	0.1605	113	I	
14/11/2023	Fine	24.6	1022.2	2139.71	2163.71	1440	40	1.01	1451	2.6479	2.7998	0.1519	105	164	260
20/11/2023	Fine	21.5	1016.7	2166.85			42	1.10	1589	2.6587	2.8410	0.1823	115	I	
25/11/2023	Fine	24.8	1020.6	2192.93	2216.93	1440	41	1.03	1481	2.6524	2.8423	0.1899	128	ĺ	
												Average	112		
												Min	101		
												Max	128		

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

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse	Time	Sampling Time	Averaged Flow Rate	Flow Rate	Total Flow Volume	Filter W	eight (g)	Particulate weight	Concentration	Action Level	Limit Level
Start Date	weather Condition	(°C)	(hPa)	Initial	Final	(minutes)	(cfm)	(m ³ /min)	(m ³)	Initial	Final	(g)	(µg/m ³)	(µg/m ³)	(µg/m3)
2/11/2023	Fine	28.8	1014.6	1621.28	1645.28	1440	39	1.01	1450	2.6598	2.8199	0.1601	110		
14/11/2023	Fine	24.6	1022.2	1648.51	1672.51	1440	40	1.12	1610	2.6502	2.7895	0.1393	87		
15/11/2023	Fine	23.8	1022.7	1676.63	1700.63	1440	40	1.12	1615	2.6501	2.7830	0.1329	82	152	260
20/11/2023	Fine	21.5	1016.7	1703.23	1727.23	1440	40	1.12	1610	2.6370	2.7501	0.1131	70		
25/11/2023	Fine	24.8	1020.6	1734.10	1758.10	1440	40	1.11	1605	2.6528	2.8097	0.1569	98		
												Average	89		
												Min	70		
												Max	110		

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

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elaps	e Time	Sampling Time	Averaged Flow Rate	Flow Rate	Total Flow Volume	Filter W	eight (g)	Particulate weight	Concentration	Action Level	Limit Level
Start Date	weather Condition	(°C)	(hPa)	Initial	Final	(minutes)	(cfm)	(m ³ /min)	(m ³)	Initial	Final	(g)	(µg/m³)	(µg/m ³)	(µg/m3)
2/11/2023	Fine	28.8	1014.6	2626.46		1440	41	1.17	1683	2.6287	2.8261	0.1974	117		
8/11/2023	Fine	26.7	1015.6	2654.12	2678.12	1440	42	1.15	1663	2.6384	2.7857	0.1473	89		
14/11/2023	Fine	24.6	1022.2	2679.75	2703.75	1440	39	1.04	1505	2.6533	2.7973	0.1440	96	163	260
20/11/2023	Fine	21.5	1016.7	2706.86		1440	41	1.13	1626	2.7064	2.8499	0.1435	88		
25/11/2023	Fine	24.8	1020.6	2736.56	2760.56	1440	38.5	1.02	1470	2.7381	2.9085	0.1704	116		
												Average	101		
												Min	88		
												Max	117		

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

<u>Noise</u>

Impact Phase Construction Noise Monitoring Data at Location NM1a

Date	Weather	Wind speed	Start Time	Interview 1st 2nd 3rd 4th 5th 6th Overall (30min) 1st 2nd 10:35 49.4 48.6 50.6 53.6 53.9 54.1 52.2 53.2 52.6 53.2 52.6 53.0 54.1 52.2 53.2 52.6 53.2 52.6 53.0 54.1 52.2 53.2 52.6 53.2 52.6 53.0 54.1 52.2 53.2 52.6 53.2 52.6 53.2 52.6 53.2 52.6 53.2 52.6 53.2 52.6 53.2 52.6 53.2 52.6 53.2 52.6 53.2 52.6 53.2 52.6 53.2 52.6 53.2 52.4 53.2 52.4 53.2 52.4 53.2 52.4 53.2 52.4 53.2 52.4 53.2 52.4 53.2 52.4 53.2 52.4 53.2 52.4 53.2 52.4 53.2 52.4 53.2 52.4 53.2 53.2	L ₁₀ (dB(A))				L ₉₀ (dB(A))														
Date	Weather	m/s	Start Time	Liiu Tiine	1st	2nd	3rd	4th	5th	6th	Overall (30min)	1st	2nd	3rd	4th	5th	6th	1st	2nd	3rd	4th	5th	6th
3/11/2023	Fine	2.4	10:05	10:35	49.4	48.6	50.6	53.6	53.9	54.1	52.2	53.2	52.6	53.6	56.6	56.3	58.1	45.4	45.5	47.1	51.5	51.6	53.0
8/11/2023	Fine	1.6	14:30	15:00	62.3	63.1	63.6	62.1	63.5	64.5	63.3	64.3	65.4	66.4	65.2	65.1	67.1	60.2	61.2	62.1	61.9	62.5	63.1
14/11/2023	Fine	1.4	13:00	13:30	59.2	60.2	61.3	61.9	62.1	62.9	61.4	62.4	63.4	64.4	64.9	65.4	65.9	54.2	55.3	56.4	56.9	56.4	55.2
20/11/2023	Fine	1.6	14:30	15:00	55.6	56.1	55.4	55.1	54.9	55.1	55.4	53.2	52.4	50.1	51.9	50.6	52.4	48.1	47.5	46.2	48.6	49.1	48.6
								ŀ	verag	е	60.0												
								Bas	eline L	.evel	55.4							_					
								Act	tion Le	vel	When one vali	d docu	imente	d comp	plaint is	s receiv	/ed						
								Liı	mit Lev	vel	75							-					
								-				-											

Impact Phase Construction Noise Monitoring Data at Location NM2a

Date	Weather	Wind speed	Start Time	End Time	L _{eq} (dB(A))							L ₁₀ (dB(A))					L ₉₀ (dB(A))						
Date	weather	m/s	Start Time	Ling Time	1st	2nd	3rd	4th	5th	6th	Overall (30min)	1st	2nd	3rd	4th	5th	6th	1st	2nd	3rd	4th	5th	6th
3/11/2023	Fine	2.1	14:10	14:40	47.6	48.1	50.2	47.6	48.3	49.6	48.7	50.6	51.4	53.4	50.5	51.2	53.6	43.5	44.5	48.1	46.1	47.2	48.4
8/11/2023	Fine	1.7	10:00	10:30	48.5	47.5	48.2	47.6	47.1	47.4	47.7	51.2	52.1	52.2	52.6	51.6	52.1	43.5	42.5	43.2	45.1	42.4	43.2
14/11/2023	Fine	1.7	14:30	15:00	50.2	47.6	48.4	50.2	51.3	49.7	49.7	61.4	59.4	60.6	61.6	62.6	61.2	48.2	45.2	46.2	48.1	49.1	47.2
20/11/2023	Fine	1.7	11:19	11:49	50.1	49.6	48.2	50.4	49.9	50.4	49.8	56.2	57.2	56.1	57.1	55.4	56.2	53.3	54.4	53.1	54.2	52.5	53.2
								A	verag	е	49.1												

, non age	10.1	
Baseline Level	54.5	
Action Level	When one vali	d 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)			рН			Turbidity (NTU)			SS (mg/L)	
					(0)	Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level
8-Nov-23	10:02	Sunny	0.16	0.1	18.5	7.5	<7.4	<4	7.6	>7.7	>7.8	5.1	>9.2	>9.5	2.5	>9.7	>11.4

Monitoring Location: WM2

Date	Time	Weather	Water Depth (m)	Water Flow (L/s)	Water Temperature		DO (mg/L)			рН			Turbidity (NTU)			SS (mg/L)	
					(0)	Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level
8-Nov-23	7:45	Sunny	0.21	0.2	20.1	6.5	<5	<4	7.5	>7.6	>7.7	20.8	>108.3	>108.9	10.0	>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"

Orange Text equal to exceed Action Level
 Red Text equal to exceed Limit Level

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



CERTIFICATE OF ANALYSIS : ACUMEN LABORATORY AND TESTING LIMITED : ALS Technichem (HK) Pty Ltd : 1 of 9 Client Laboratory Page : HK2344804 : HUNTINGTON HUI : Richard Fung Contact Contact Work Order : UNIT D, 12/F, FORD GLORY PLAZA, NOS.37-39 WING HONG Address : 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Address STREET, CHEUNG SHA WAN, KOWLOON, HONG KONG Yip Street, Kwai Chung, N.T., Hong Kong : Huntington.Hui@aurecongroup.com : richard.fung@alsglobal.com E-mail E-mail : +852 2610 1044 Telephone : -----Telephone Facsimile : +852 2610 2021 : -----Facsimile : NENTX : 08-Nov-2023 Project Date Samples Received Order number : ----: HKE/2751/2022_V3 : 22-Nov-2023 Quote Issue Date number : 2 No. of samples received C-O-C number : ----: 2 No. of samples analysed Site 1

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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	
Ki land formy .			
Fung Lim Chee, Richard	Managing Director	Inorganics	
Kidand Jong.			
Fung Lim Chee, Richard	Managing Director	Metals_ENV	
Az			
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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-Nov-2023 to 21-Nov-2023.

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: HK2344804

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

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.

Microbiological sample(s) was/ were collected in 250mL sterile plastic bottles containing sodium thiosulfate. Sample(s) arrived at the laboratory at 19:35.

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.

Page Number : 3 of 9 Client ACUMEN LABORATORY AND TESTING LIMITED Work Order HK2344804



Analytical Results

			Sample ID	WM1	WM2		
Sub-Matrix: WATER		o (
		Sampli	ing date / time	08-Nov-2023	08-Nov-2023		
Compound	CAS Number	LOR	Unit	HK2344804-001	HK2344804-002		
EA/ED: Physical and Aggregate Properties					_	-	
EA002: pH Value		0.1	pH Unit	6.9	7.4		
EA010: Electrical Conductivity @ 25°C		1	µS/cm	60	151		
EA025: Suspended Solids (SS)		0.1	mg/L	2.5	10.0		 10 10 10 M
ED037: Total Alkalinity as CaCO3		1	mg/L	17	44		
ED/EK: Inorganic Nonmetallic Parameters							
ED041K: Sulphate as SO4 - Turbidimetric		1	mg/L	<1	24		
ED045K: Chloride	16887-00-6	0.5	mg/L	6	6		
EK055K: Ammonia as N	7664-41-7	0.01	mg/L	0.07	0.06		mann
EK058A: Nitrate as N	14797-55-8	0.01	mg/L	0.05	0.19		
EK061A: Total Kjeldahl Nitrogen as N		0.1	mg/L	0.5	0.1		
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	2		
EP020: Oil & Grease		5	mg/L	<5	<5		10 M M
EP026C: Chemical Oxygen Demand		5	mg/L	7	<5		
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	1		
EG020: Manganese	7439-96-5	1	µg/L	41	1350		
EG020: Nickel	7440-02-0	1	µg/L	<1	2		
EG020: Zinc	7440-66-6	10	µg/L	13	20		
EG032: Calcium	7440-70-2	50	µg/L	3330	19400		
EG032: Iron	7439-89-6	10	µg/L	420	1340		
EG032: Magnesium	7439-95-4	50	µg/L	480	1470		
EG032: Potassium	7440-09-7	50	µg/L	600	2010		
EG032: Sodium	7440-23-5	50	µg/L	8120	6010		

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Client ACUMEN LABORATORY AND TESTING LIMITED



Work Order HK2344804

Sub-Matrix: WATER			Sample ID	WM1	WM2	 	
		Samplii	ng date / time	08-Nov-2023	08-Nov-2023	 	
Compound	CAS Number	LOR	Unit	HK2344804-001	HK2344804-002	 	
EM: Microbiological Testing							
EM002: E. coli		1	CFU/100mL	11	19	 	
EM003: Total Coliforms		1	CFU/100mL	25	56	 	



Laboratory Duplicate (DUP) Report

Matrix: WATER					Labo	pratory Duplicate (DUP)	Report	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)
EA/ED: Physical and Ag	gregate Properties (QC Lot:	5414128)						
HK2344783-003	Anonymous	EA010: Electrical Conductivity @ 25°C		1	µS/cm	170	170	0.0
HK2344804-002	WM2	EA010: Electrical Conductivity @ 25°C		1	µS/cm	151	151	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot:	5415132)				· ·	·	
HK2343238-002	Anonymous	ED037: Total Alkalinity as CaCO3		1	mg/L	131	131	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot:	5415135)						
HK2344804-002	WM2	EA002: pH Value		0.1	pH Unit	7.4	7.4	0.0
HK2344956-001	Anonymous	EA002: pH Value		0.1	pH Unit	9.1	9.1	0.0
EA/ED: Physical and Ag	gregate Properties (QC Lot:	5416660)						
HK2344804-001	WM1	EA025: Suspended Solids (SS)		0.5	mg/L	2.5	2.1	17.2
HK2344811-008	Anonymous	EA025: Suspended Solids (SS)		0.5	mg/L	1.4	1.1	18.2
ED/EK: Inorganic Nonm	etallic Parameters (QC Lot:	5414216)						
HK2344727-001	Anonymous	ED041K: Sulphate as SO4 - Turbidimetric		1	mg/L	<1	<1	0.0
ED/EK: Inorganic Nonm	etallic Parameters (QC Lot:	5414217)						
HK2344727-001	Anonymous	ED045K: Chloride	16887-00-6	1	mg/L	<1	<1	0.0
ED/EK: Inorganic Nonm	etallic Parameters (QC Lot:	5416823)						
HK2344868-001	Anonymous	EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	<0.01	0.0
ED/EK: Inorganic Nonm	etallic Parameters (QC Lot:	5416838)						
HK2343099-003	Anonymous	EK055K: Ammonia as N	7664-41-7	0.01	mg/L	1.68	1.56	7.7
ED/EK: Inorganic Nonm	etallic Parameters (QC Lot:	5433020)						
HK2344804-001	WM1	EK061A: Total Kjeldahl Nitrogen as N		0.1	mg/L	0.5	0.5	0.0
ED/EK: Inorganic Nonm	etallic Parameters (QC Lot:	5433970)						
HK2344804-001	WM1	EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	<2	0.0
EP: Aggregate Organics	s (QC Lot: 5431603)							
HK2345267-005	Anonymous	EP005: Total Organic Carbon		1	mg/L	<1	<1	0.0
EP: Aggregate Organics	s (QC Lot: 5431668)							
HK2344804-002	WM2	EP026C: Chemical Oxygen Demand		5	mg/L	<5	<5	0.0
EG: Metals and Major C	ations - Total (QC Lot: 5416	710)						
HK2344804-002	WM2	EG032: Iron	7439-89-6	10	μg/L	1340	1330	0.0
		EG032: Calcium	7440-70-2	50	µg/L	19400	19200	0.7
		EG032: Magnesium	7439-95-4	50	µg/L	1470	1450	1.2

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HK2344804

Matrix: WATER				Laboratory Duplicate (DUP) Report							
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)			
	ations - Total (QC Lot: 5416710)	- Continued					rtoun				
HK2344804-002	WM2	EG032: Potassium	7440-09-7	50	µg/L	2010	1980	1.6			
		EG032: Sodium	7440-23-5	50	µg/L	6010	5970	0.7			
EG: Metals and Major Ca	ations - Total (QC Lot: 5416711)										
HK2344804-002	WM2	EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	<0.2	0.0			
		EG020: Copper	7440-50-8	1	µg/L	1	1	0.0			
		EG020: Lead	7439-92-1	1	μg/L	1	1	0.0			
		EG020: Manganese	7439-96-5	1	μg/L	1350	1370	1.5			
		EG020: Nickel	7440-02-0	1	μg/L	2	2	0.0			
		EG020: Zinc	7440-66-6	10	μg/L	20	18	10.0			

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

Matrix: WATER			Method Blank (ML	3) Report	ļ	Laboratory Contr	ol Spike (LCS) and Labo	ratory Control S	pike Duplicate (DCS) Report	
					Spike Concentration	Spike Re	covery (%)	Recove	ory Limits(%)	RP	D (%)
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC	Lot: 5414128)		1		I		1		1		
EA010: Electrical Conductivity @ 25°C		1	µS/cm	<1	146.9 µS/cm	101		93.5	106		
				<1	1412 µS/cm	95.2		94.3	105		
EA/ED: Physical and Aggregate Properties (QC	Lot: 5415132)										
ED037: Total Alkalinity as CaCO3		1	mg/L	<1	50 mg/L	102		95.0	105		
				<1	2000 mg/L	100		95.0	105		
EA/ED: Physical and Aggregate Properties (QC	Lot: 5416660)										
EA025: Suspended Solids (SS)		0.5	mg/L	<0.5	10 mg/L	90.5		86.6	113		
ED/EK: Inorganic Nonmetallic Parameters (QC I	Lot: 5414216)										
ED041K: Sulphate as SO4 - Turbidimetric		1	mg/L	<1	5 mg/L	99.4		91.4	109		
ED/EK: Inorganic Nonmetallic Parameters (QC I	Lot: 5414217)										
ED045K: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	99.8		88.2	108		
ED/EK: Inorganic Nonmetallic Parameters (QC I	Lot: 5416823)										
EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	98.6		92.4	106		

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Work Order HK2344804

Matrix: WATER	[Method Blank (MB) Report				Laboratory Contr	ol Spike (LCS) and Labor	atory Control S	pike Duplicate ((DCS) Report	
					Spike Concentration	Spike Re	соvегу (%)	Recove	ny Limits(%)	RP	D (%)
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control
											Limit
ED/EK: Inorganic Nonmetallic Parameters (QC	· · · · ·			.0.04	0.5 //			00.0	100		
EK055K: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	104		89.3	109		
ED/EK: Inorganic Nonmetallic Parameters (QC I	,						1				
EK061A: Total Kjeldahl Nitrogen as N		0.1	mg/L	<0.1	0.5 mg/L	103		89.0	120		
ED/EK: Inorganic Nonmetallic Parameters (QC I	Lot: 5433970)							1			
EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2							
EP: Aggregate Organics (QC Lot: 5414608)							1				
EP030: Biochemical Oxygen Demand			mg/L		198 mg/L	92.3		77.6	118		
EP: Aggregate Organics (QC Lot: 5431603)											
EP005: Total Organic Carbon		1	mg/L	<1	5 mg/L	112		87.3	120		
				<1	100 mg/L	110		88.8	120		
EP: Aggregate Organics (QC Lot: 5431668)											
EP026C: Chemical Oxygen Demand			mg/L		25 mg/L	94.0		92.0	108		
					250 mg/L	100.0		92.3	106		
EP: Aggregate Organics (QC Lot: 5435328)											
EP020: Oil & Grease		2	mg/L	<2	20 mg/L	88.0		81.7	105		
EG: Metals and Major Cations - Total (QC Lot: 5	5416710)			•				÷			
EG032: Calcium	7440-70-2	50	µg/L	<50	2000 µg/L	107		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	102		85.0	115		
EG032: Potassium	7440-09-7	50	µg/L	<50	2000 µg/L	99.2		85.0	115		
EG032: Sodium	7440-23-5	50	µg/L	<50	2000 µg/L	107		85.0	115		
EG: Metals and Major Cations - Total (QC Lot: 5	5416711)										
EG020: Cadmium	7440-43-9	0.2	µg/L	<0.2	5 µg/L	98.7		85.0	109		
EG020: Copper	7440-50-8	1	µg/L	<1	50 µg/L	99.6		90.0	111		
EG020: Lead	7439-92-1	1	µg/L	<1	50 µg/L	99.2		89.0	111		
EG020: Manganese	7439-96-5	1	µg/L	<1	50 µg/L	96.3		85.0	115		
EG020: Nickel	7440-02-0	1	µg/L	<1	50 µg/L	98.3		87.0	110		
EG020: Zinc	7440-66-6	10	μg/L	<10	50 µg/L	96.4		86.0	114		



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

Matrix: WATER					Matrix Spil	ke (MS) and Matri	ix Spike Duplic	ate (MSD) Re	port	
				Spike	Spike Re	covery (%)	Recovery	Limits (%)	RPL) (%)
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control Limit
ED/EK: Inorgani	ic Nonmetallic Parameters (QC Lot: 5414	216)								
HK2344727-001	Anonymous	ED041K: Sulphate as SO4 - Turbidimetric		5 mg/L	90.7		75.0	125		
ED/EK: Inorgani	ic Nonmetallic Parameters (QC Lot: 5414	217)								
HK2344727-001	Anonymous	ED045K: Chloride	16887-00- 6	5 mg/L	94.0		75.0	125		
ED/EK: Inorgani	ic Nonmetallic Parameters (QC Lot: 5416	823)							·	
HK2344868-001	Anonymous	EK071K: Reactive Phosphorus as P	14265-44- 2	0.5 mg/L	102		75.0	125		
ED/EK: Inorgani	ic Nonmetallic Parameters (QC Lot: 5416	838)								
HK2343099-003	Anonymous	EK055K: Ammonia as N	7664-41-7	5 mg/L	97.1		75.0	125		
ED/EK: Inorgani	ic Nonmetallic Parameters (QC Lot: 5433	020)								
HK2344804-001	WM1	EK061A: Total Kjeldahl Nitrogen as N		0.5 mg/L	89.9		75.0	125		
EP: Aggregate (Organics (QC Lot: 5431603)									
HK2345267-005	Anonymous	EP005: Total Organic Carbon		5 mg/L	102		75.0	125		
EP: Aggregate (Organics (QC Lot: 5431668)									
HK2344804-001	WM1	EP026C: Chemical Oxygen Demand		10 mg/L	102		75.0	125		
EG: Metals and	Major Cations - Total (QC Lot: 5416710)									
HK2344804-001	WM1	EG032: Calcium	7440-70-2	2000 µg/L	94.2		75.0	125		
		EG032: Iron	7439-89-6	2000 µg/L	103		75.0	125		
		EG032: Magnesium	7439-95-4	2000 µg/L	98.8		75.0	125		
		EG032: Potassium	7440-09-7	2000 µg/L	99.2		75.0	125		
		EG032: Sodium	7440-23-5	2000 µg/L	# Not		75.0	125		
					Determined					
EG: Metals and	Major Cations - Total (QC Lot: 5416711)				1					
HK2344804-001	WM1	EG020: Cadmium	7440-43-9	5 µg/L	98.3		75.0	125		
		EG020: Copper	7440-50-8	50 µg/L	98.0		75.0	125		
		EG020: Lead	7439-92-1	50 µg/L	97.7		75.0	125		
l		EG020: Manganese	7439-96-5	50 µg/L	95.3		75.0	125		

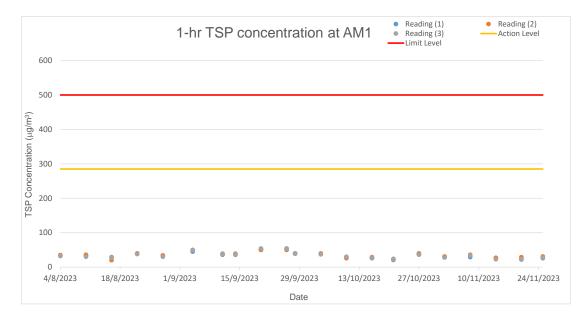
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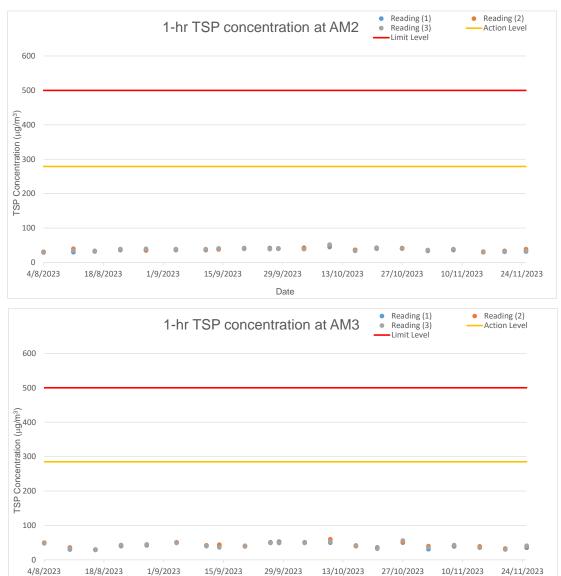


Matrix: WATER					Matrix Spi	ike (MS) and Matrix	Spike Duplica	ate (MSD) Re	aport	
				Spike	Spike Re	covery (%)	Recovery	Limits (%)	RPD	(%)
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control
sample ID										Limit
EG: Metals and I	Major Cations - Total (QC Lot: 5416711)	- Continued								
HK2344804-001	WM1	EG020: Nickel	7440-02-0	50 µg/L	99.4		75.0	125		
		EG020: Zinc	7440-66-6	50 µg/L	96.0		75.0	125		

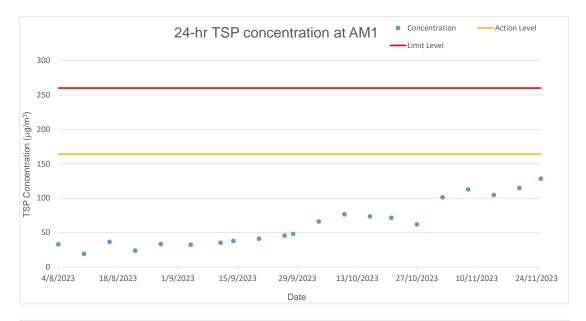
Appendix F Graphical Presentations

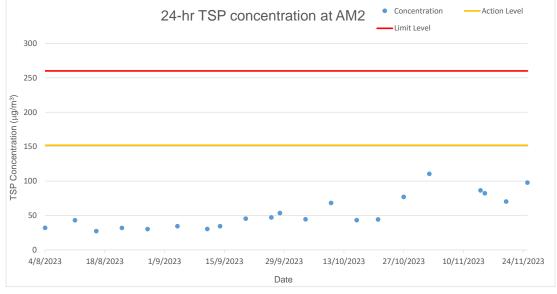
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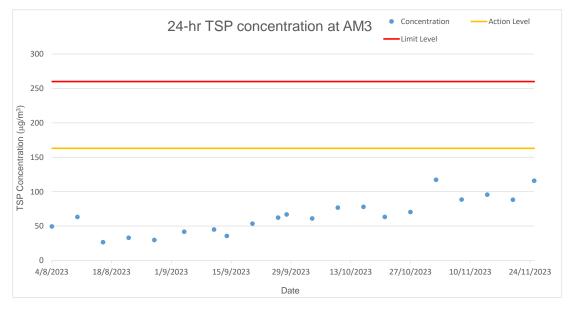




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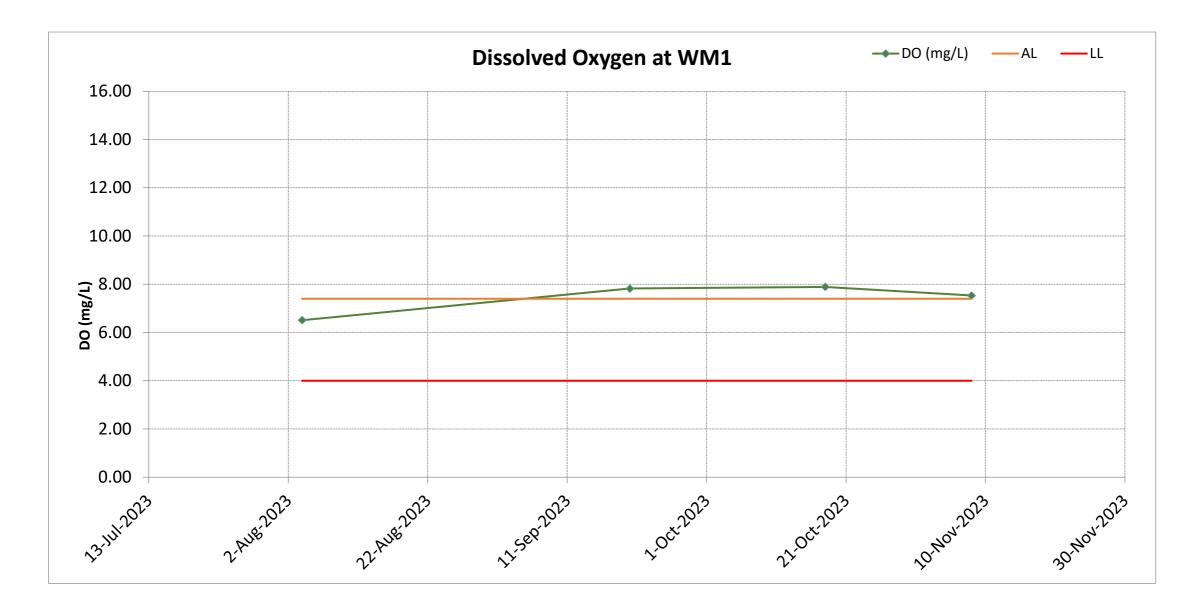


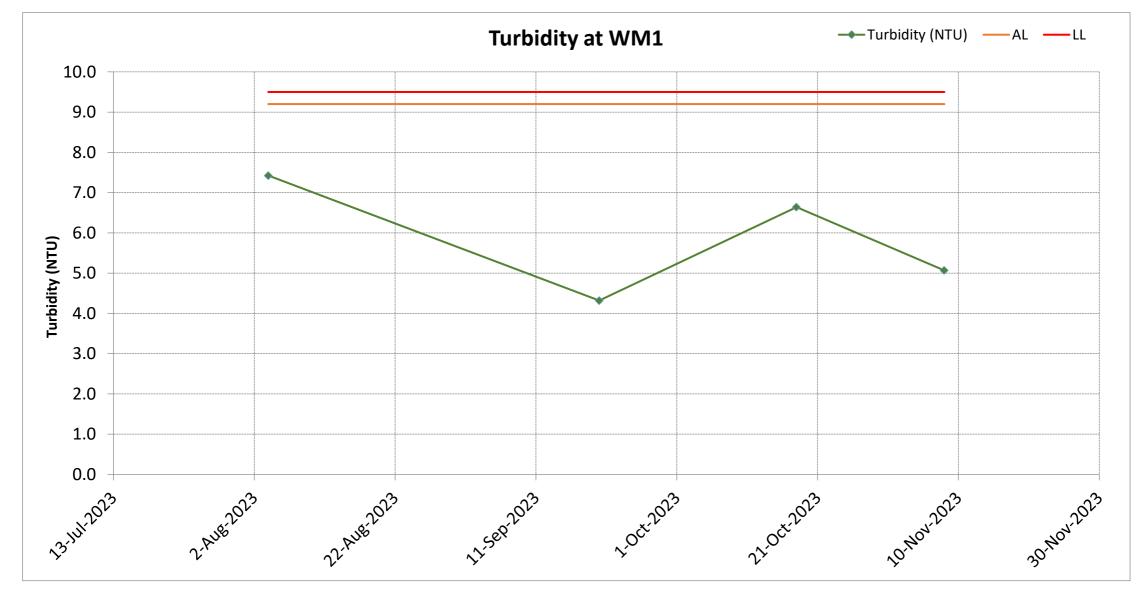


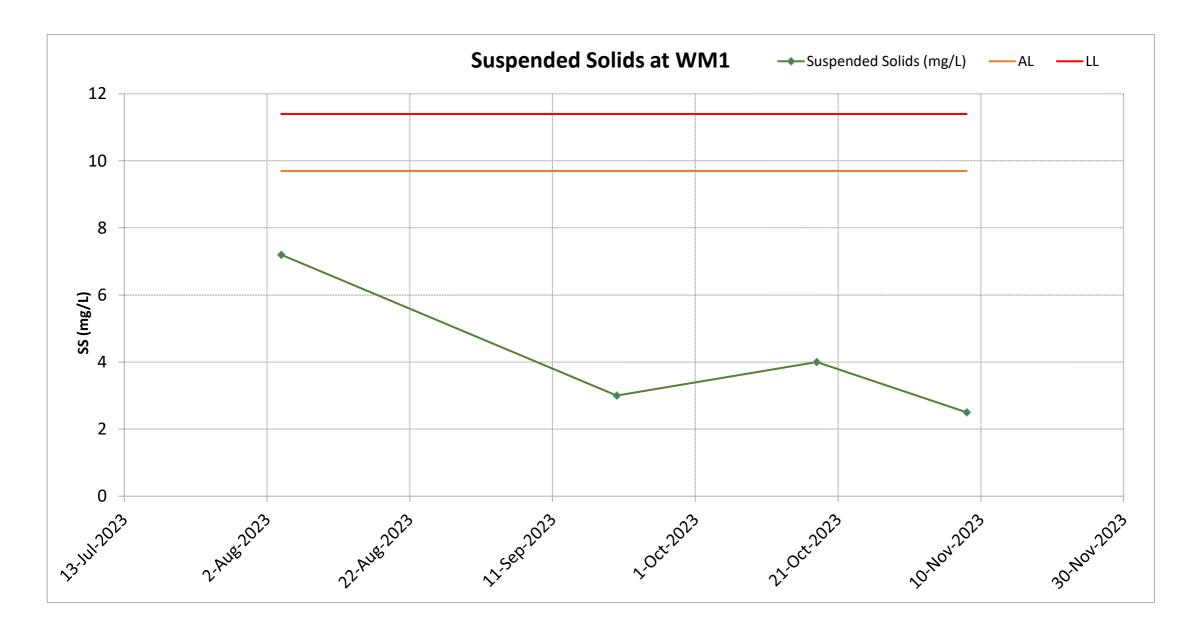
<u>Noise</u>

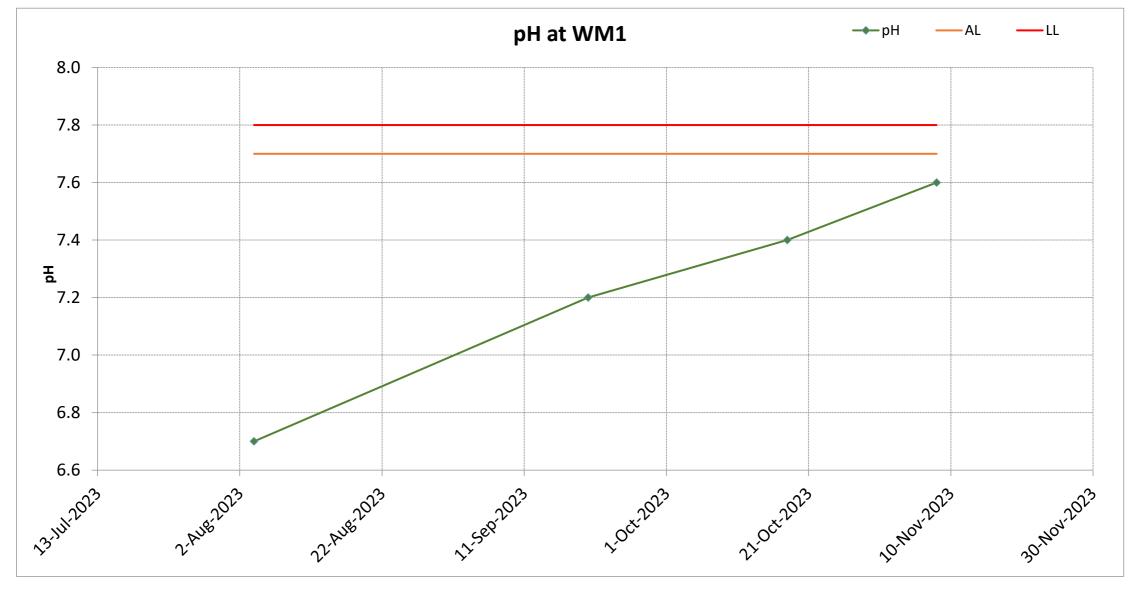


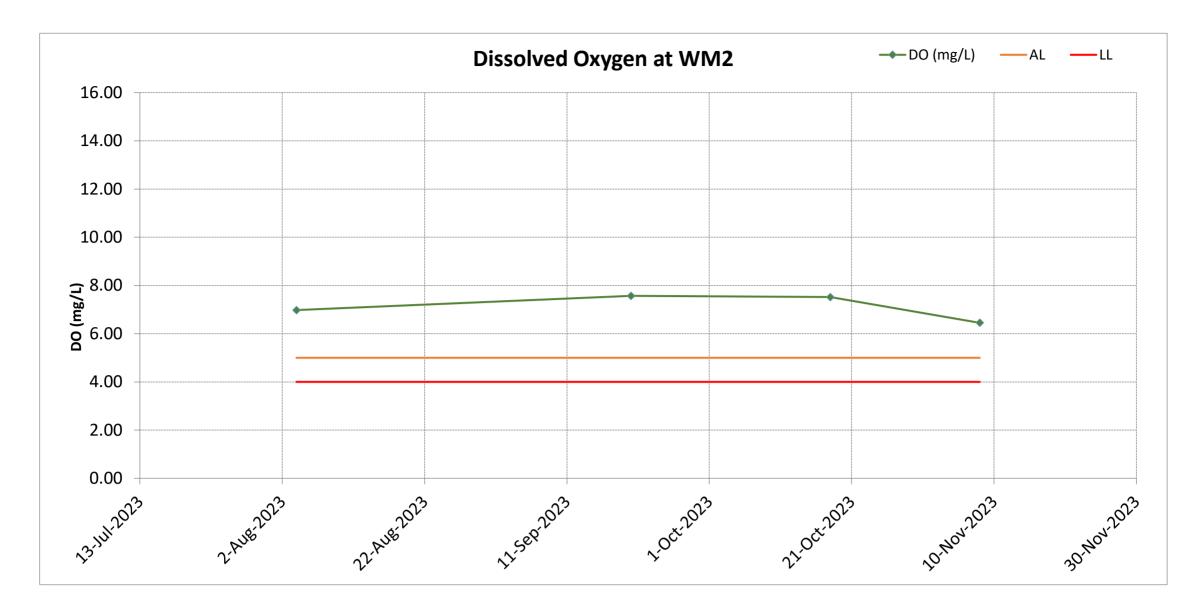
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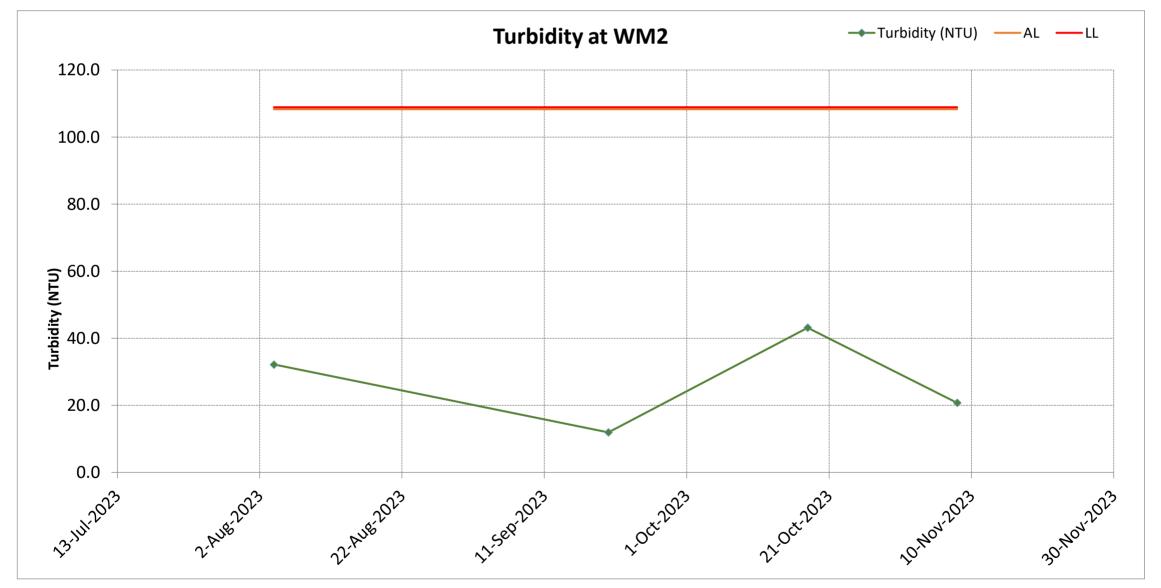


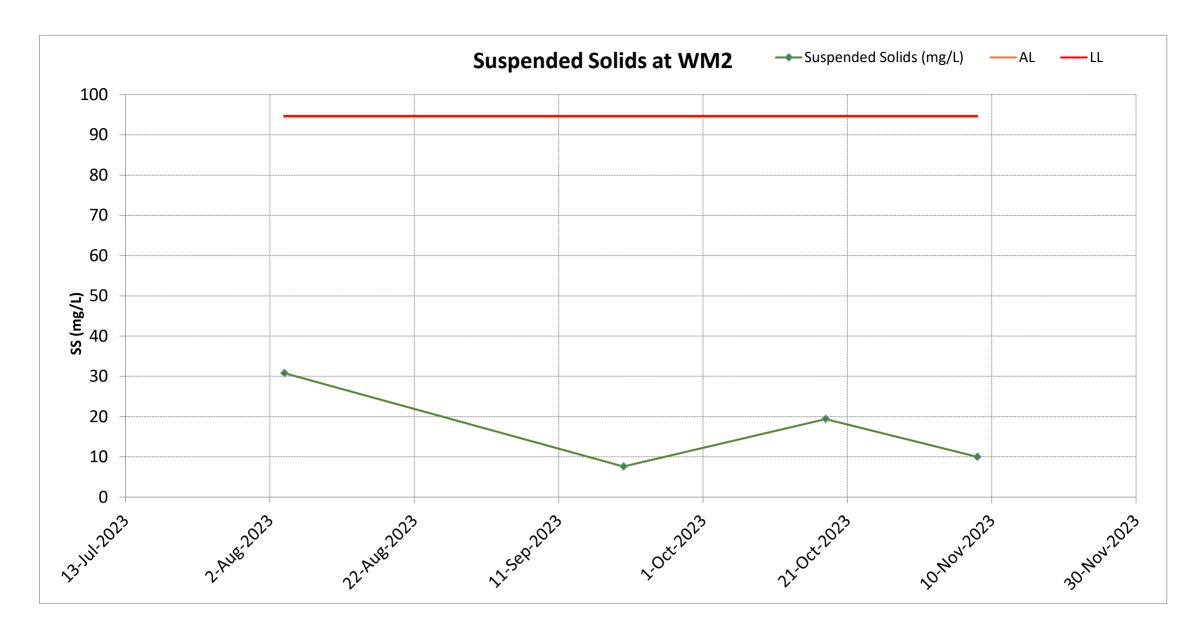




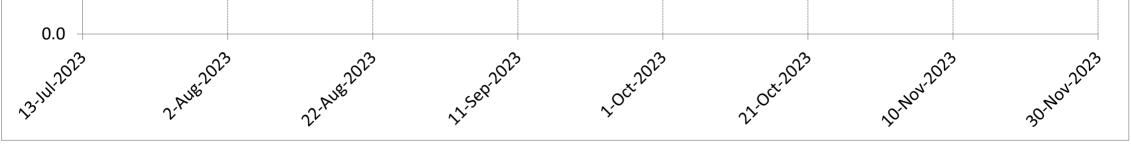












Appendix G Notification of Environmental Quality Limits Exceedance

Notification of Environmental Quality Limits Exceedance

Air Quality Monitoring - Construction Dust

				1-ł	nr TSP Exce	edance Co	unt	24-hr TSP Exceedance Count					
Dust Monitoring	Level	Monitoring F	Parameter (s)	Reportir	ng period		ate project date	Reportir	ng period	Accumulate project to date			
Station	Exceedance	1-hr TSP	24-hr TSP	Project related	Non- project related	Project related	Non- project related	Project related	Non- project related	Project related	Non- project replated		
A N 4 4	Action	0	0	0	0	0	0	0	0	0	2		
AM1	Limit	0	0	0	0	0	0	0	0	0	3		
	Action	0	0	0	0	0	0	0	0	0	0		
AM2	Limit	0	0	0	0	0	0	0	0	0	0		
4140	Action	0	0	0	0	0	0	0	0	0	4		
AM3	Limit	0	0	0	0	0	0	0	0	0	3		

Noise Monitoring

		Manifaring	LAec	(30mins) Ex	kceedance C	ount	
Noise Monitoring	Level	Monitoring Parameter	Reportir	ng period	Accumulate project to date		
Station	Exceedance	LAeq (30mins)	Project related	Non- project related	Project related	Non- project related	
	Action	0	0	0	0	0	
NM1a	Limit	0	0	0	0	0	
	Action	0	0	0	0	0	
NM2a	Limit	0	0	0	0	0	

Notification of Environmental Quality Limits Exceedance

Surface Water Monitoring

Surface												Ex	ceeda	nce Co	unt						
Water	Level	Moni	toring I	Paramet	ter (s)			R	eportir	ng perio	bd					Accum	iulate p	oroject	to date)	
Quality Monitoring	Exceedance						Project	related	i	No	n-proje	ct repla	ted		Project	related	i	No	n-proje	ct repla	ited
Station		DO	рН	Turb	SS	DO	рН	Turb	SS	DO	рН	Turb	SS	DO	рН	Turb	SS	DO	рН	Turb	SS
	Action	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
WM1	Limit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Action	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WM2	Limit	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

Remarks:

1. "DO" equal to Dissolved Oxygen

2. "Turb" equal to Turbidity

3. "SS" equal to Suspended Solids

Landfill Gas (LFG) Monitoring

LFG Monitoring	Monitoring	No. of Exceedance
Station	Parameter(s)	Limit Level
	CH4	0
Portion A +50 mpD to +70 mpD Platform	CO ₂	0
	O ₂	0

North East New Territories (NENT) Landfill Extension Monthly Environmental Monitoring and Audit Report (No. 12) – November 2023

Appendix H Wind Data

Date & Time	Wind Speed (m/s)	Wind Direction (Degree)
(YYYYMMBB_HHMM) 20231101 0000	0.1	162
20231101_0010	0.1	155
20231101_0020	0.1	86
20231101_0030	0.8	63
20231101_0040	0.1	149
20231101_0050	0.1	127
<u>20231101_0100</u> 20231101_0110	0.1	<u>125</u> 79
20231101_0110	0.1	140
20231101_0120	0.3	10
20231101_0140	0.1	146
20231101_0150	0.5	153
20231101_0200	0.3	56
<u>20231101_0210</u> 20231101_0220	0.1 0.4	<u>120</u> 15
20231101_0220	0.4	97
20231101_0240	0.3	105
20231101_0250	0.1	348
20231101_0300	0.1	177
20231101_0310	0.1	284
<u>20231101_0320</u> 20231101_0330	0.2 0.6	<u>75</u> 159
20231101_0340	0.0	125
20231101_0350	0.1	316
20231101_0400	0.1	283
20231101_0410	0.1	165
20231101_0420	0.1	135
20231101_0430 20231101_0440	0.1 0.1	206 199
20231101_0440	0.1	219
20231101_0500	0.1	57
20231101_0510	0.1	150
20231101_0520	0.1	15
20231101_0530	0.1	66
20231101_0540 20231101_0550	0.1	<u>48</u> 45
20231101_0530	0.1	62
20231101_0610	0.1	40
20231101_0620	0.1	47
20231101_0630	0.1	47
<u>20231101_0640</u> 20231101_0650	0.1 0.1	<u>53</u> 25
20231101_0000	0.1	48
20231101_0700	0.1	61
20231101_0720	0.1	57
20231101_0730	0.1	59
20231101_0740	0.1	72
20231101_0750	0.1	99
20231101_0800 20231101_0810	0.1 0.1	<u>104</u> 116
20231101_0810	0.1	99
20231101_0830	0.1	123
20231101_0840	0.1	85
20231101_0850	0.1	127
<u>20231101_0900</u> 20231101_0910	0.1 0.1	<u>163</u> 176
20231101_0910	0.1	176
20231101_0920	0.1	162
20231101_0940	0.4	140
20231101_0950	0.3	101
20231101_1000	0.1	124
<u>20231101_1010</u> 20231101_1020	0.1 0.2	<u>7</u> 54
<u>20231101_1020</u> 20231101_1030	0.2	21
20231101_1030	0.1	68
20231101_1050	0.2	225
20231101_1100	0.5	199
20231101_1110	0.1	87
20231101_1120	0.3	229
20231101_1130	0.3	197

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231101 1200	0.1	312
20231101_1210	1.5	187
20231101_1220	0.1	49
20231101_1230	0.3	152
<u>20231101_1240</u> 20231101_1250	0.1 0.1	<u>156</u> 128
20231101_1250	1.4	255
20231101_1310	0.1	155
20231101_1320	0.2	137
20231101_1330	0.1	52
20231101_1340	0.1	322
<u>20231101_1350</u> 20231101_1400	0.4 0.2	<u>11</u> 22
20231101_1400	0.2	22
20231101_1420	0.2	292
20231101_1430	0.1	73
20231101_1440	0.5	12
20231101_1450	0.4	327
<u>20231101_1500</u> 20231101_1510	0.1	<u>298</u> 95
<u>20231101_1510</u> 20231101_1520	0.8 1.2	104
20231101_1520	0.1	160
20231101_1540	0.9	86
20231101_1550	0.4	110
20231101_1600	0.3	117
<u>20231101_1610</u> 20231101_1620	0.1 0.1	<u>242</u> 72
20231101_1620	0.1	72
20231101_1050	0.2	213
20231101_1650	0.1	18
20231101_1700	0.2	354
20231101_1710	0.1	81
20231101_1720	0.1	240
<u>20231101_1730</u> 20231101_1740	0.1 2.1	330 313
20231101_1740	0.1	336
20231101_1800	0.2	344
20231101_1810	0.1	342
20231101_1820	0.4	331
20231101_1830	0.1	348
<u>20231101_1840</u> 20231101_1850	0.1	<u>86</u> 4
20231101_1850	0.6	112
20231101 1910	0.1	161
20231101_1920	0.1	300
20231101_1930	0.2	101
20231101_1940 20231101_1950	0.6 6.4	<u>324</u> 26
20231101_1950	0.1	<u> </u>
20231101_2000	1.1	144
20231101_2020	0.2	76
20231101_2030	0.1	295
20231101_2040	0.1	48
20231101_2050 20231101_2100	0.1 0.1	<u>99</u> 200
20231101_2100	0.1	112
20231101_2120	0.1	85
20231101_2130	0.1	300
20231101_2140	0.1	148
20231101_2150	0.1	164
20231101_2200 20231101_2210	0.1 0.1	<u> </u>
20231101_2220	0.1	112
20231101_2220	0.1	204
20231101_2240	0.1	317
20231101_2250	0.1	283
20231101_2300	0.1	74
20231101_2310	0.1	130
20231101_2320 20231101_2330	0.1	<u>124</u> 295
20231101_2340	0.1	119
20231101_2350	0.1	261

20231101_1130	0.5	177
20231101_1140	0.2	178
20231101_1150	0.3	113

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231102 0000	0.1	283
20231102_0010	0.1	52
20231102_0020	0.1	160
20231102_0030	0.1	94
20231102_0040	0.1	73
20231102_0050 20231102_0100	0.1 0.1	<u>93</u> 162
20231102_0100	0.1	312
20231102_0110	0.1	124
20231102_0130	0.1	33
20231102_0140	0.1	118
20231102_0150	0.1	55
<u>20231102_0200</u> 20231102_0210	0.1 0.1	<u>173</u> 93
20231102_0210	0.1	90
20231102_0220	0.1	329
20231102_0240	0.1	104
20231102_0250	0.1	114
20231102_0300	0.1	49
20231102_0310	0.1	33
<u>20231102_0320</u> 20231102_0330	0.1 0.1	<u>89</u> 298
20231102_0330	0.1	<u> </u>
20231102_0340	0.1	290
20231102_0400	0.1	277
20231102_0410	0.1	310
20231102_0420	0.2	310
20231102_0430	0.1	324
<u>20231102_0440</u> 20231102_0450	0.1 0.1	<u>310</u> 353
20231102_0430	0.1	70
20231102_0510	1	5
20231102_0520	0.1	81
20231102_0530	0.1	302
20231102_0540	0.1	133
20231102_0550 20231102_0600	0.1 0.1	<u>101</u> 277
20231102_0610	0.1	201
20231102_0620	0.1	186
20231102_0630	0.1	5
20231102_0640	0.1	317
20231102_0650	0.1	344
20231102_0700 20231102_0710	0.1 0.1	<u> </u>
20231102_0710	0.1	339
20231102_0720	0.1	331
20231102_0740	0.1	27
20231102_0750	0.1	346
20231102_0800	0.1	312
20231102_0810	0.1	342
20231102_0820 20231102_0830	0.1 0.1	<u>351</u> 120
20231102_0830	0.1	284
20231102_0840	0.5	273
20231102_0900	0.1	174
20231102_0910	1.4	149
20231102_0920	0.1	237
20231102_0930	0.1	3
20231102_0940 20231102_0950	0.1 0.2	<u>138</u> 152
20231102_0930	0.2	77
20231102_1010	0.1	195
20231102_1020	0.3	31
20231102_1030	0.1	175
20231102_1040	0.4	115
20231102_1050	0.1	151
<u>20231102_1100</u> 20231102_1110	0.3 1.5	<u>194</u> 49
20231102_1110	0.4	18
20231102_1120	1.6	209

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231102_1200	0.1	113
20231102_1210	2.4	163
20231102_1220	2.2	109
20231102_1230	1.8	31
20231102_1240	0.3	3
20231102_1250	1.6	146
<u>20231102_1300</u> 20231102_1310	1 2.7	<u>339</u> 156
20231102_1310	0.5	91
20231102_1320	0.9	122
20231102_1340	0.1	290
20231102_1350	1.4	120
20231102_1400	0.5	2
20231102_1410	1	68
20231102_1420	1.5	62
20231102_1430	3.9	191
20231102_1440	0.9	86
20231102_1450	1.1	193
<u>20231102_1500</u> 20231102_1510	0.8 0.1	<u>35</u> 166
20231102_1510	0.1	151
20231102_1520	0.2	189
20231102_1550	0.1	93
20231102_1550	0.1	49
20231102_1600	1.9	118
20231102_1610	1.5	141
20231102_1620	4.4	70
20231102_1630	0.2	136
20231102_1640	0.1	145
<u>20231102_1650</u> 20231102_1700	0.8 1.6	<u>118</u> 73
20231102_1700	0.5	97
20231102_1710	1.2	44
20231102_1720	0.1	104
20231102 1740	0.4	103
20231102_1750	0.1	162
20231102_1800	1.2	139
20231102_1810	0.1	103
20231102_1820	0.1	39
20231102_1830	0.1	18
<u>20231102_1840</u> 20231102_1850	0.1	<u>13</u> 52
20231102_1830	0.1 0.1	347
20231102_1900	0.1	85
20231102_1920	0.1	64
20231102_1930	0.1	57
20231102_1940	0.1	108
20231102_1950	0.1	124
20231102_2000	0.1	14
20231102_2010	0.1	339
20231102_2020	0.1	120
<u>20231102_2030</u> 20231102_2040	0.1	<u> </u>
20231102_2040	0.1	66
20231102_2030	0.1	42
20231102_2100	0.1	143
20231102_2120	0.1	315
20231102_2130	0.1	67
20231102_2140	0.1	162
20231102_2150	0.1	100
20231102_2200	0.1	164
20231102_2210	0.1	116
20231102_2220	0.1	<u>24</u> 253
20231102_2230 20231102_2240	0.1 0.1	<u> </u>
20231102_2240	0.1	15
20231102 2230	0.1	246
20231102_2310	0.1	47
20231102_2320	0.2	54
20231102_2330	0.1	239
20231102_2340	0.1	86
20231102_2350	0.1	95

20231102_1130	1.0	209
20231102_1140	0.4	266
20231102_1150	1	74

Date & Time	Wind Speed (m/s)	Wind Direction (Degree)
(YYYYMMBB_HHMM) 20231103 0000	0.1	89
20231103_0010	0.1	71
20231103_0020	0.1	2
20231103_0030	0.1	78
20231103_0040	0.1	56
<u>20231103_0050</u> 20231103_0100	0.1 0.1	<u>2</u> 168
20231103_0100	0.1	328
20231103_0120	0.1	344
20231103_0130	0.1	116
20231103_0140	0.1	76
20231103_0150	0.1	80
<u>20231103_0200</u> 20231103_0210	0.1 0.1	71 139
20231103_0220	0.1	51
20231103 0220	0.1	56
20231103_0240	0.1	115
20231103_0250	0.1	272
20231103_0300	0.1	144
<u>20231103_0310</u> 20231103_0320	0.1	85
<u>20231103_0320</u> 20231103_0330	0.1 0.1	47 49
20231103_0340	0.1	38
20231103_0350	0.1	50
20231103_0400	0.1	52
20231103_0410	0.1	19
20231103_0420	0.1	32
20231103_0430 20231103_0440	0.1 0.1	<u>18</u> 47
20231103_0440	0.1	30
20231103_0500	0.1	296
20231103_0510	0.1	309
20231103_0520	0.1	33
20231103_0530	0.1	45
<u>20231103_0540</u> 20231103_0550	0.1 0.1	46 33
20231103_0500	0.1	54
20231103_0610	0.1	12
20231103 0620	0.1	59
20231103_0630	0.1	53
20231103_0640	0.1	16
20231103_0650	0.1	27
20231103_0700 20231103_0710	0.1 0.1	<u>22</u> 87
20231103_0710	0.1	290
20231103 0730	0.4	269
20231103_0740	0.1	47
20231103_0750	0.1	295
20231103_0800	0.1	42
20231103_0810 20231103_0820	0.3 0.1	<u> </u>
20231103_0830	0.1	146
20231103_0840	0.1	111
20231103_0850	0.5	351
20231103_0900	0.2	116
20231103_0910 20231103_0920	1	306
20231103_0920	0.2 0.1	<u>301</u> 187
20231103_0930	1	12
20231103_0950	0.1	143
20231103_1000	0.2	332
20231103_1010	0.3	346
20231103_1020	0.9	335
20231103_1030 20231103_1040	0.9 0.1	<u>198</u> 64
20231103_1040	0.1	19
20231103_100	0.9	43
20231103_1110	0.7	355
20231103_1120	0.1	55
20231103_1130	0.9	84

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231103_1200	1.7	54
20231103_1210	0.3	181
20231103_1220	1.5	346
20231103_1230	0.6	166
20231103_1240	0.1	186
20231103_1250	0.3	<u>54</u> 156
<u>20231103_1300</u> 20231103_1310	4.1 0.1	35
20231103_1310	0.1	0
20231103_1320	0.4	54
20231103_1340	2.8	122
20231103 1350	0.2	111
20231103 1400	0.1	129
20231103_1410	0.4	108
20231103_1420	1.6	112
20231103_1430	1.3	215
20231103_1440	2.6	95
20231103_1450	2.3	141
20231103_1500	1.2	180
20231103_1510	0.8	<u>92</u> 97
<u>20231103_1520</u> 20231103_1530	0.4 0.2	102
20231103_1530	0.2	102
20231103_1550	1	60
20231103_1600	0.1	66
20231103_1610	0.2	95
20231103_1620	0.4	127
20231103_1630	0.1	112
20231103_1640	0.1	115
20231103_1650	0.1	192
20231103_1700	0.2	43
20231103_1710	0.1	52
20231103_1720	0.1	53
<u>20231103_1730</u> 20231103_1740	0.9 0.1	<u>62</u> 28
20231103_1750	0.3	80
20231103_1750	0.5	112
20231103 1810	1.5	101
20231103 1820	0.2	106
20231103_1830	0.2	111
20231103_1840	0.1	143
20231103_1850	0.1	82
20231103_1900	0.1	10
20231103_1910	0.1	16
20231103_1920	0.1	20
<u>20231103_1930</u> 20231103_1940	0.1 0.1	777
20231103_1940	0.1	27
20231103_2000	0.1	30
20231103_2010	0.1	23
20231103_2020	0.1	85
20231103_2030	0.1	95
20231103_2040	0.2	134
20231103_2050	0.7	92
20231103_2100	0.2	92
20231103_2110	0.1	35
<u>20231103_2120</u> 20231103_2130	0.1 0.1	<u>54</u> 355
20231103_2130	0.1	304
20231103_2140	0.1	43
20231103_2200	0.1	104
20231103_2210	0.1	92
20231103_2220	0.5	186
20231103_2230	0.1	78
20231103_2240	0.1	279
20231103_2250	0.1	1
20231103_2300	0.1	60
20231103_2310	0.1	308
20231103_2320	0.1	9
20231103_2330 20231103_2340	0.3 0.6	<u>5</u> 34
		74

20231103_1130	0.7	01
20231103_1140	0.1	34
20231103_1150	0.5	158

Date & Time	Wind Speed (m/s)	Wind Direction (Degree)
(YYYYMMBB_HHMM) 20231104 0000	0.2	311
20231104_0010	0.2	187
20231104_0020	0.1	170
20231104_0030	0.1	6
20231104_0040	0.1	325
20231104_0050	0.1	249
<u>20231104_0100</u> 20231104_0110	0.1 0.1	100 46
20231104_0110	0.1	121
20231104_0120	0.1	207
20231104_0140	0.2	154
20231104_0150	0.1	144
20231104_0200	0.1	208
20231104_0210 20231104_0220	0.1 0.1	96
20231104_0220	0.1	<u>96</u> 100
20231104_0240	0.1	104
20231104 0250	0.1	122
20231104_0300	0.1	93
20231104_0310	0.1	49
20231104_0320	0.1	79
<u>20231104_0330</u> 20231104_0340	0.1 0.1	<u>48</u> 66
20231104_0340	0.1	67
20231104_0350	0.1	44
20231104_0410	0.1	51
20231104_0420	0.1	50
20231104_0430	0.1	49
20231104_0440	0.1	33
<u>20231104_0450</u> 20231104_0500	0.1 0.1	<u>177</u> 177
20231104_0500	0.1	91
20231104_0520	0.1	66
20231104_0530	0.1	346
20231104_0540	0.1	76
20231104_0550	0.1	5
20231104_0600	0.1	93
<u>20231104_0610</u> 20231104_0620	0.1 0.1	<u> </u>
20231104_0020	0.1	53
20231104 0640	0.1	83
20231104_0650	0.1	83
20231104_0700	0.1	83
20231104_0710	0.1	83
<u>20231104_0720</u> 20231104_0730	0.1 0.1	<u>256</u> 134
20231104_0740	0.1	100
20231104_0750	0.1	49
20231104_0800	0.1	122
20231104_0810	0.1	153
20231104_0820	0.1	2
20231104_0830	0.7	56
<u>20231104_0840</u> 20231104_0850	0.1 0.2	<u>346</u> 110
20231104_0830	0.1	110
20231104_0910	0.1	346
20231104_0920	0.1	272
20231104_0930	0.1	347
20231104_0940	0.4	109
20231104_0950	0.1	29
20231104_1000 20231104_1010	0.1 0.1	<u>354</u> 75
20231104_1010	0.1	331
20231104_1020	0.1	280
20231104_1040	1.1	17
20231104_1050	0.1	55
20231104_1100	0.5	43
20231104_1110	3.8	336
20231104_1120	0.6	68
20231104_1130	0.1	99

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231104_1200	1.1	94
20231104_1210	0.1	65
20231104_1220	0.9	29
20231104_1230	0.4	56
20231104_1240	0.9	348
<u>20231104_1250</u> 20231104_1300	0.7	<u>353</u> 60
20231104_1300	0.3	89
20231104_1310	1	353
20231104_1330	0.1	63
20231104 1340	0.2	331
20231104_1350	0.2	3
20231104_1400	2.9	330
20231104_1410	0.1	1
20231104_1420	0.1	292
20231104_1430	0.1	37
<u>20231104_1440</u> 20231104_1450	0.1 0.2	<u>18</u> 71
<u>20231104_1450</u> 20231104_1500	0.2	/1
20231104_1510	1.4	51
20231104_1510	0.1	34
20231104_1530	0.3	251
20231104_1540	1.1	148
20231104_1550	0.1	177
20231104_1600	1.7	149
20231104_1610	0.3	120
20231104_1620	1	101
20231104_1630	1.8	112
20231104_1640	0.1	125
20231104_1650	0.2	12
20231104_1700 20231104_1710	0.1 0.2	<u>94</u> 333
20231104_1710	0.2	132
20231104_1720	0.5	334
20231104_1740	1	103
20231104 1750	0.1	276
20231104_1800	0.1	185
20231104_1810	0.1	15
20231104_1820	0.2	88
20231104_1830	0.2	153
20231104_1840	0.1	100
<u>20231104_1850</u> 20231104_1900	0.1	56
20231104_1900	0.1 0.1	<u>38</u> 114
20231104_1910	0.1	54
20231104_1920	0.1	289
20231104_1940	0.1	119
20231104_1950	0.2	281
20231104_2000	0.2	238
20231104_2010	0.1	256
20231104_2020	0.1	282
20231104_2030	0.1	56
20231104_2040	0.1	154
20231104_2050	0.1	284
20231104_2100 20231104_2110	0.1	13
20231104_2110 20231104_2120	0.1 0.1	<u>84</u> 166
20231104_2120	0.1	24
20231104_2140	0.1	76
20231104_2150	0.2	117
20231104_2200	0.1	164
20231104_2210	0.1	54
20231104_2220	0.1	119
20231104_2230	0.1	173
20231104_2240	0.1	170
20231104_2250	0.1	118
20231104_2300	0.1	82
20231104_2310	0.1	<u>78</u> 93
<u>20231104_2320</u> 20231104_2330	0.1 0.1	83
20231104_2330	0.1	94
20231104_2350	0.1	59

20231101_1130	0.1	
20231104_1140	1.3	128
20231104_1150	1	296

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231105 0000	0.1	47
20231105_0010	0.1	100
20231105_0020	0.1	15
20231105_0030	0.1	89
20231105_0040	0.1	106
20231105_0050	0.1	185
20231105_0100	0.1	47
20231105_0110	0.1	109
<u>20231105_0120</u> 20231105_0130	0.1 0.1	<u>245</u> 274
20231105_0130	0.1	121
20231105_0140	0.1	15
20231105 0200	0.1	343
20231105 0210	0.1	299
20231105_0220	0.1	26
20231105_0230	0.1	56
20231105_0240	0.1	0
20231105_0250	0.1	24
20231105_0300	0.1	344
<u>20231105_0310</u> 20231105_0320	0.1 0.1	<u>342</u> 324
20231105_0320	0.1	161
20231105_0340	0.1	68
20231105_0350	0.1	25
20231105_0400	0.1	23
20231105_0410	0.1	109
20231105_0420	0.1	23
20231105_0430	0.1	40
20231105_0440	0.1	49
20231105_0450	0.1	52
20231105_0500	0.1	23
<u>20231105_0510</u> 20231105_0520	0.1 0.1	23 21
20231105_0520	0.1	21
20231105_0540	0.1	10
20231105 0550	0.1	80
20231105_0600	0.1	61
20231105_0610	0.1	74
20231105_0620	0.1	5
20231105_0630	0.1	311
20231105_0640	0.1	140
20231105_0650 20231105_0700	0.1 0.1	<u>57</u> 18
20231105_0700	0.1	136
20231105_0710	0.3	176
20231105_0720	0.2	122
20231105_0740	0.1	30
20231105_0750	0.1	20
20231105_0800	0.1	120
20231105_0810	0.1	149
20231105_0820	0.1	248
<u>20231105_0830</u> 20231105_0840	0.1 0.1	<u>116</u> 69
20231105_0840	0.1	206
20231105_0850	0.4	176
20231105_0910	0.1	15
20231105_0920	0.1	68
20231105_0930	0.1	33
20231105_0940	0.3	63
20231105_0950	0.1	311
20231105_1000	0.1	314
20231105_1010	2.7	312
20231105_1020	0.1	<u>86</u> 215
<u>20231105_1030</u> 20231105_1040	0.1 0.1	126
20231105_1040	0.1	120
20231105_1050	0.1	331
20231105_1110	0.1	154
20231105_1120	0.9	52

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231105 1200	0.1	137
20231105_1210	1.1	120
20231105_1220	0.2	5
20231105_1230	0.1	337
<u>20231105 1240</u> 20231105 1250	0.1 0.2	<u>307</u> 325
20231105_1250	0.2	132
20231105_1310	0.1	72
20231105_1320	0.1	345
20231105_1330	0.2	119
<u>20231105_1340</u> 20231105_1350	0.1 0.1	<u>295</u> 340
20231105_1350	0.1	9
20231105 1410	0.9	43
20231105_1420	0.2	30
20231105_1430	0.8	12
<u>20231105_1440</u> 20231105_1450	0.1 0.1	<u>323</u> 66
20231105_1430	0.1	116
20231105_1510	0.1	153
20231105_1520	0.7	117
20231105_1530	0.1	39
<u>20231105_1540</u> 20231105_1550	<u>1.4</u> 0.1	104
20231105_1550	2.8	<u>84</u> 337
20231105_1000	1.2	120
20231105_1620	0.1	97
20231105_1630	0.7	26
20231105_1640	0.1	78
<u>20231105 1650</u> 20231105 1700	0.1 0.1	<u>9</u> 88
20231105_1700	1.0	114
20231105_1720	0.3	115
20231105_1730	0.8	104
20231105_1740	1.1	121
<u>20231105_1750</u> 20231105_1800	0.1 0.1	101 182
20231105_1800	0.1	28
20231105_1820	0.1	173
20231105_1830	0.1	45
20231105_1840	0.1	0
20231105_1850 20231105_1900	0.1 0.1	<u>6</u> 45
20231105_1900	0.1	<u> </u>
20231105_1920	0.1	80
20231105_1930	0.1	10
20231105_1940	0.1	34
20231105_1950	0.1	128
20231105_2000 20231105_2010	0.1 0.1	<u>84</u> 18
20231105_2020	0.1	69
20231105_2030	0.1	29
20231105_2040	0.1	295
20231105_2050	0.1	27
20231105_2100 20231105_2110	0.1 0.1	<u>2</u> 36
20231105_2120	0.1	<u> </u>
20231105_2120	0.1	0
20231105_2140	0.1	2
20231105_2150	0.1	34
20231105_2200	0.1	94
20231105_2210 20231105_2220	0.1 0.1	<u> </u>
20231105_2220	0.1	18
20231105_2240	0.1	173
20231105_2250	0.1	117
20231105_2300	0.1	26
20231105_2310	0.1	81
20231105_2320 20231105_2330	0.1 0.1	<u>207</u> 49
20231105_2340	0.1	27
20231105_2350	0.1	38

20201100_1100	0.0	157
20231105_1140	0.1	310
20231105_1150	0.1	152

Date & Time	Wind Speed (m/s)	Wind Direction (Degree)
(YYYYMMBB_HHMM) 20231106 0000	0.1	167
20231106_0010	0.1	91
20231106_0020	0.1	77
20231106_0030	0.1	19
20231106_0040	0.1	23
<u>20231106_0050</u> 20231106_0100	0.1 0.1	50 92
20231106_0100	0.1	8
20231106_0120	0.1	74
20231106_0130	0.1	71
20231106_0140	0.1	10
20231106_0150	0.1	23
20231106_0200 20231106_0210	0.1 0.1	<u>18</u> 55
20231106_0210	0.1	225
20231106 0220	0.1	117
20231106_0240	0.1	56
20231106_0250	0.1	32
20231106_0300	0.1	74
20231106_0310	0.1	167
20231106_0320 20231106_0330	0.1 0.1	<u>61</u> 61
20231106_0340	0.1	66
20231106_0350	0.1	58
20231106_0400	0.1	47
20231106_0410	0.1	47
20231106_0420	0.1	55
20231106_0430 20231106_0440	0.1 0.1	<u>50</u> 95
20231106_0440	0.1	69
20231106_0500	0.1	71
20231106_0510	0.1	25
20231106_0520	0.1	47
20231106_0530 20231106_0540	0.1	56
20231106_0540 20231106_0550	0.1 0.1	<u>29</u> 57
20231106_0550	0.1	38
20231106_0610	0.1	41
20231106_0620	0.1	207
20231106_0630	0.1	26
20231106_0640 20231106_0650	0.1 0.1	<u>343</u> 314
20231106_0000	0.1	233
20231106_0710	0.1	216
20231106_0720	0.1	68
20231106_0730	0.1	70
20231106_0740	0.1	53
20231106_0750 20231106_0800	0.1 0.1	<u>168</u> 168
20231106_0800	0.1	108
20231106_0820	0.1	77
20231106_0830	0.1	185
20231106_0840	0.3	143
20231106_0850	0.1	148
20231106_0900 20231106_0910	0.1 0.7	<u>142</u> 175
20231106_0910	1.2	221
20231106_0920	0.1	176
20231106_0940	0.2	102
20231106_0950	6.1	229
20231106_1000	1.0	54
20231106_1010	1.2	60
<u>20231106_1020</u> 20231106_1030	0.2 0.9	<u>48</u> 298
20231106_1030	0.9	298
20231106_1050	0.9	56
20231106_1100	0.1	40
20231106_1110	0.1	49
20231106_1120	0.1	331
20231106_1130	0.1	262

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231106 1200	3.3	58
20231106_1210	0.6	53
20231106_1220	2.9	355
20231106_1230	0.6	343
<u>20231106_1240</u> 20231106_1250	0.2 0.1	<u>29</u> 53
20231106_1230	0.1	6
20231106_1310	1.2	79
20231106_1320	0.6	42
20231106_1330	0.7	21
<u>20231106_1340</u> 20231106_1350	2.2 0.1	5 28
20231106_1330	0.1	3
20231106_1410	1.0	153
20231106_1420	1.5	59
20231106_1430	0.4	348
20231106_1440	0.2	324
20231106_1450	4.0 0.1	59
<u>20231106_1500</u> 20231106_1510	0.1	<u>290</u> 70
20231100_1510	0.1	1
20231106_1530	0.7	43
20231106_1540	0.6	43
20231106_1550	0.1	197
<u>20231106_1600</u> 20231106_1610	1.6 0.1	<u>104</u> 249
20231106_1610	1.6	68
20231106_1020	2.6	149
20231106_1640	0.4	301
20231106_1650	2.4	7
20231106_1700	0.5	237
<u>20231106_1710</u> 20231106_1720	0.1 2.3	<u>221</u> 152
20231106_1720	0.1	56
20231106_1740	5.4	29
20231106_1750	1.2	133
20231106_1800	1.4	162
20231106_1810	0.3	177
<u>20231106_1820</u> 20231106_1830	0.1	<u> </u>
20231106_1840	0.1	102
20231106_1850	0.2	249
20231106_1900	0.3	157
20231106_1910	0.1	83
20231106_1920 20231106_1930	0.1 0.1	<u>296</u> 84
20231106_1930	0.1	13
20231106_1950	0.1	37
20231106_2000	0.1	54
20231106_2010	0.1	43
20231106_2020	0.1	37
20231106_2030 20231106_2040	0.1 0.1	<u>44</u> 56
20231106_2040	0.1	45
20231106_2100	0.1	50
20231106_2110	0.1	45
20231106_2120	0.1	46
<u>20231106_2130</u> 20231106_2140	0.1 0.1	<u>41</u> 43
20231106_2140	0.1	43 48
20231106_2200	0.1	43
20231106_2210	0.1	22
20231106_2220	0.1	329
20231106_2230	0.1	45
20231106_2240 20231106_2250	0.1	39
20231106_2250	0.1 0.1	<u>43</u> 79
20231106_2300	0.1	52
20231106_2320	0.1	43
20231106_2330	0.1	43
20231106_2340	0.1	29
20231106_2350	0.1	43

20231100_1130	0.1	202
20231106_1140	0.1	138
20231106_1150	0.4	64

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231107 0000	0.1	42
20231107_0010	0.1	47
20231107_0020	0.1	36
20231107_0030	0.1	44
<u>20231107_0040</u> 20231107_0050	0.1 0.1	<u>55</u> 25
20231107_0030	0.1	80
20231107_0110	0.1	50
20231107_0120	0.1	48
20231107_0130	0.1	48
20231107_0140	0.1	46
20231107_0150 20231107_0200	0.1 0.1	<u>60</u> 68
20231107_0210	0.1	48
20231107_0220	0.1	43
20231107_0230	0.1	49
20231107_0240	0.1	26
20231107_0250	0.1	4
<u>20231107_0300</u> 20231107_0310	0.1 0.1	<u>50</u> 25
20231107_0320	0.1	23
20231107_0320	0.1	25
20231107_0340	0.1	41
20231107_0350	0.1	45
20231107_0400	0.1	45
20231107_0410 20231107_0420	0.1 0.1	<u>22</u> 36
20231107_0420	0.1	25
20231107_0440	0.1	349
20231107_0450	0.1	31
20231107_0500	0.1	49
20231107_0510	0.1	31
<u>20231107_0520</u> 20231107_0530	0.1	<u>41</u> 50
20231107_0540	0.1	258
20231107_0550	0.1	20
20231107_0600	0.1	216
20231107_0610	0.1	184
20231107_0620	0.1	<u>82</u> 50
20231107_0630 20231107_0640	0.1 0.1	21
20231107_0040	0.1	160
20231107_0700	0.1	353
20231107_0710	0.1	34
20231107_0720	0.1	63
20231107_0730	0.1	176
<u>20231107_0740</u> 20231107_0750	0.1 0.1	<u>110</u> 324
20231107_0730	0.1	149
20231107_0810	0.1	101
20231107_0820	0.1	110
20231107_0830	0.1	243
20231107_0840	0.1	191
<u>20231107_0850</u> 20231107_0900	0.1 0.1	<u>152</u> 130
20231107_0900	0.3	115
20231107_0920	0.2	169
20231107_0930	0.1	153
20231107_0940	1.3	20
<u>20231107_0950</u> 20231107_1000	0.1 0.1	5 2
20231107_1000	4.4	13
20231107_1010	0.1	312
20231107_1020	0.1	349
20231107_1040	0.4	320
20231107_1050	0.4	337
20231107_1100	3	42
<u>20231107_1110</u> 20231107_1120	1.5 0.1	54 268
20231107_1120	0.1	69
20221101_1120	0.1	07

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231107 1200	0.1	56
20231107_1210	0.1	110
20231107_1220	1.4	171
20231107_1230	0.2	346
<u>20231107_1240</u> 20231107_1250	0.1 0.1	140 58
20231107_1230	0.1	2
20231107_1310	0.1	348
20231107_1320	0.1	56
20231107_1330	0.2	176
20231107_1340	0.5	168
<u>20231107_1350</u> 20231107_1400	0.1 0.1	131 23
20231107_1410	0.1	195
20231107_1420	0.1	65
20231107_1430	1.3	158
20231107_1440	0.1	63
<u>20231107_1450</u> 20231107_1500	1.6 0.2	<u>93</u> 110
20231107_1500	0.2	162
20231107_1510	0.1	199
20231107_1530	0.2	132
20231107_1540	0.1	320
20231107_1550	0.6 0.1	168
20231107_1600 20231107_1610	0.1	104 60
20231107_1010	0.8	224
20231107_1630	2.1	134
20231107_1640	1.2	53
20231107_1650	1.6	105
<u>20231107_1700</u> 20231107_1710	0.1 0.2	<u> </u>
<u>20231107_1710</u> 20231107_1720	0.2	125
20231107_1720	0.1	0
20231107_1740	0.1	122
20231107_1750	0.5	159
20231107_1800	0.1	190
20231107_1810 20231107_1820	0.1 0.1	<u>124</u> 84
20231107_1820	0.3	325
20231107_1840	0.1	101
20231107_1850	0.1	46
20231107_1900	0.2	119
<u>20231107_1910</u> 20231107_1920	0.4 0.1	<u>320</u> 215
20231107_1920	0.1	19
20231107_1940	0.2	343
20231107_1950	3.4	292
20231107_2000	0.2	286
20231107_2010	0.1	240
<u>20231107_2020</u> 20231107_2030	0.3	<u>346</u> 60
20231107_2030	3.5	326
20231107_2050	0.6	520
20231107_2100	0.3	48
20231107_2110	0.2	7
20231107_2120	0.4	67
<u>20231107_2130</u> 20231107_2140	0.1 0.3	<u>318</u> 288
20231107_2140	2.4	154
20231107_2200	0.3	108
20231107_2210	0.1	82
20231107_2220	0.8	107
20231107_2230	0.1	114
20231107_2240 20231107_2250	0.1 0.1	47 38
20231107_2230	1.6	63
20231107_2310	0.5	94
20231107_2320	0.1	167
20231107_2330	0.1	171
20231107_2340	0.1	311
20231107_2350	0.2	311

20231107_1130	0.1	07
20231107_1140	0.1	329
20231107_1150	0.1	337

Date & Time	Wind Speed (m/s)	Wind Direction (Degree)
(YYYYMMBB_HHMM) 20231108_0000	0.1	45
20231108_0000	0.1	306
20231108_0020	1.9	92
20231108_0030	0.1	302
20231108_0040	3.3	104
20231108_0050	0.1	335
20231108_0100	0.2	75
<u>20231108_0110</u> 20231108_0120	0.8 0.7	<u>346</u> 54
20231108_0120	0.8	97
20231108_0140	0.3	5
20231108_0150	0.9	299
20231108_0200	0.4	141
20231108_0210	0.1	271
20231108_0220	0.1	237
<u>20231108_0230</u> 20231108_0240	0.1 0.1	<u>211</u> 225
20231108_0240	0.1	272
20231108_0300	0.1	336
20231108_0310	0.2	35
20231108_0320	0.8	39
20231108_0330	0.2	191
20231108_0340	0.5	105
<u>20231108_0350</u> 20231108_0400	1.9 0.1	<u>135</u> 138
20231108_0400	0.1	324
20231108_0420	0.4	83
20231108_0430	0.1	290
20231108_0440	0.6	142
20231108_0450	0.5	106
20231108_0500	1.5 0.1	4 181
<u>20231108_0510</u> 20231108_0520	0.1	204
20231108_0520	0.1	337
20231108_0540	0.1	49
20231108_0550	0.1	73
20231108_0600	0.1	18
20231108_0610	0.2	353
<u>20231108_0620</u> 20231108_0630	0.2 0.3	308 126
20231108_0640	1.2	327
20231108 0650	0.2	151
20231108_0700	0.1	125
20231108_0710	0.1	72
20231108_0720	0.1	157
<u>20231108_0730</u> 20231108_0740	0.5 0.6	<u>342</u> 306
20231108_0740	0.8	300
20231108_0750	3.1	294
20231108_0810	0.5	257
20231108_0820	0.6	182
20231108_0830	0.4	34
20231108_0840	0.1	170
<u>20231108_0850</u> 20231108_0900	1.5	<u>112</u> 52
20231108_0900	0.1	255
20231108_0910	1.9	88
20231108_0930	5.1	120
20231108_0940	0.1	296
20231108_0950	0.4	271
20231108_1000	0.2	175
<u>20231108_1010</u> 20231108_1020	1.3 0.1	285 122
20231108_1020	0.6	222
20231108_1040	0.0	7
20231108_1050	0.1	68
20231108_1100	0.1	129
20231108_1110	0.1	85
<u>20231108_1120</u> 20231108_1130	0.4	<u>335</u> 284
20231106_1130	1.4	204

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231108 1200	0.2	25
20231108_1210	1.4	43
20231108_1220	0.1	109
20231108_1230	0.1	230
20231108_1240	0.2	277
<u>20231108_1250</u> 20231108_1300	0.1 0.1	231 342
20231108_1300	1.9	342
20231108_1310	0.3	23
20231108_1320	0.1	138
20231108 1340	0.1	61
20231108_1350	0.2	51
20231108_1400	0.3	331
20231108_1410	0.1	86
20231108_1420	0.1	87
20231108_1430	0.2	305
20231108_1440	0.6	355
<u>20231108_1450</u> 20231108_1500	0.1 0.4	<u>350</u> 298
20231108_1500	0.4	8
20231108_1510	0.2	320
20231108_1520	0.1	52
20231108_1540	0.1	123
20231108_1550	0.1	299
20231108_1600	0.1	73
20231108_1610	0.1	70
20231108_1620	0.1	146
20231108_1630	0.1	59
20231108_1640	0.1	162
20231108_1650	0.3	337
20231108_1700	0.1	232
20231108_1710 20231108_1720	0.1	<u>330</u> 87
<u>20231108_1720</u> 20231108_1730	0.1	71
20231108_1750	0.1	354
20231108_1750	0.1	55
20231108 1800	0.1	165
20231108_1810	0.2	87
20231108_1820	0.7	33
20231108_1830	0.1	71
20231108_1840	0.1	30
20231108_1850	0.1	127
20231108_1900	0.1	27
<u>20231108_1910</u> 20231108_1920	0.1 0.3	<u>180</u> 115
20231108_1920	0.5	249
20231108_1930	0.1	249
20231108_1940	0.7	33
20231108_2000	0.8	334
20231108_2010	0.0	332
20231108_2020	2.2	317
20231108_2030	0.4	7
20231108_2040	2.6	341
20231108_2050	0.7	4
20231108_2100	1.6	16
20231108_2110	0.4 0.2	<u>92</u> 13
20231108_2120 20231108_2130	0.2	34
20231108_2130	0.1	305
20231108_2150	0.1	136
20231108_2200	0.1	231
20231108_2210	0.1	156
20231108_2220	0.1	92
20231108_2230	0.3	339
20231108_2240	0.9	37
20231108_2250	0.1	5
20231108_2300	0.3	64
20231108_2310	0.2	310
20231108_2320	0.1	321
20231108_2330 20231108_2340	4.4 0.2	<u>158</u> 115
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20251100_	1150	¥•1	201
20231108_	1140	1	10
20231108_	1150	1.9	22

Date & Time	Wind Speed (m/s)	Wind Direction (Degree)
(YYYYMMBB_HHMM) 20231109 0000	0.2	336
20231109_0000	0.2	325
20231109 0020	0.1	305
20231109_0030	0.2	24
20231109_0030	0.2	112
20231109_0040	0.5	351
20231109_0050	0.1	59
20231109_0100	0.4	11
<u>20231109_0110</u> 20231109_0120	0.3 0.1	<u>123</u> 20
20231109_0120	0.1	194
20231109_0140	0.2	107
20231109 0150	0.1	132
20231109_0200	0.2	162
20231109_0210	0.1	342
20231109_0220	0.1	346
20231109_0230	0.1	110
20231109_0240 20231109_0250	0.2 0.1	<u>17</u> 278
20231109_0250	0.1	188
20231109_0300	0.1	247
20231109_0320	0.3	56
20231109_0330	0.1	207
20231109_0340	0.1	351
20231109_0350	0.1	321
20231109_0400	0.1	175
<u>20231109_0410</u> 20231109_0420	0.1 0.1	<u>192</u> 211
20231109_0420	0.1	312
20231109_0440	0.1	50
20231109_0450	0.1	283
20231109_0500	0.1	68
20231109_0510	1.6	66
20231109_0520	0.1	73
20231109_0530	0.2	314
20231109_0540 20231109_0550	0.1 0.1	<u>160</u> 243
20231109_0600	0.1	110
20231109_0610	0.1	69
20231109_0620	0.1	326
20231109_0630	0.1	303
20231109_0640	0.5	109
20231109_0650	0.1	156
20231109_0700	0.1	31
20231109_0710 20231109_0720	1.8 3.2	47 27
20231109_0720	0.3	139
20231109_0740	0.8	54
20231109_0750	0.6	73
20231109_0800	0.2	55
20231109_0810	2	352
20231109_0820	0.2	349
<u>20231109_0830</u> 20231109_0840	0.1 0.2	73 184
20231109_0840	0.2	184 159
20231109_0800	0.1	332
20231109_0910	0.1	310
20231109_0920	0.5	338
20231109_0930	0.6	142
20231109_0940	0.3	311
20231109_0950	1.5	38
20231109_1000 20231109_1010	0.2 0.1	<u>35</u> 243
20231109_1010	0.1	331
20231109_1020	0.1	285
20231109_1040	0.1	138
20231109_1050	0.1	2
20231109_1100	0.1	340
20231109_1110	0.3	132
20231109_1120	0.3	27

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231109 1200	0.1	92
20231109_1210	2.2	327
20231109_1220	9	1
20231109_1230	0.3	3
<u>20231109_1240</u> 20231109_1250	0.1 0.2	<u>308</u> 52
20231109_1230	0.2	64
20231109_1310	0.8	20
20231109_1320	0.2	68
20231109 1330	0.4	183
20231109_1340	0.1	306
20231109_1350	0.8	41
20231109_1400	0.1	345
20231109_1410	0.1	324
20231109_1420 20231109_1430	0.1	259
20201109_1100	0.1	17
<u>20231109_1440</u> 20231109_1450	0.1	<u>16</u> 284
20231109_1430	0.2	104
20231109_1510	1.4	141
20231109_1520	0.2	38
20231109_1530	0.1	113
20231109_1540	0.2	36
20231109_1550	0.1	147
20231109_1600	0.1	44
20231109_1610	0.1	56
20231109_1620	0.1	117
20231109_1630 20231109_1640	0.1 0.1	<u>326</u> 53
20231109_1650	0.1	103
20231109_1000	0.1	65
20231109_1710	0.2	84
20231109_1720	0.1	211
20231109 1730	1.7	159
20231109_1740	0.1	105
20231109_1750	0.1	90
20231109_1800	0.1	203
20231109_1810	0.1	71
20231109_1820	0.9	118
20231109_1830 20231109_1840	0.1 0.3	262 2
20231109_1840	0.5	142
20231109_1830	1	91
20231109_1910	0.4	323
20231109_1920	0.1	63
20231109_1930	0.1	274
20231109_1940	0.1	187
20231109_1950	0.1	284
20231109_2000	0.2	276
20231109_2010 20231109_2020	0.1 0.1	<u>305</u> 187
20231109_2020	0.1	248
20231109_2030	0.1	181
20231109_2040	0.1	176
20231109_2100	0.4	149
20231109_2110	0.1	321
20231109_2120	0.1	306
20231109_2130	0.1	251
20231109_2140	0.1	9
20231109_2150	0.4	57
20231109_2200	0.4	132
20231109_2210 20231109_2220	0.2 0.2	<u>34</u> 87
20231109_2220	0.2	87
20231109_2240	0.2	254
20231109_2250	0.4	172
20231109_2200	0.1	244
20231109_2310	0.4	129
20231109_2320	0.1	133
20231109_2330	0.1	78
20231109_2340	0.3	189
20231109 2350	0.5	54

20231107_1120	0.5	21
20231109_1130	0.1	351
20231109_1140	0.1	349

Date & Time	Wind Speed (m/s)	Wind Direction (Degree)
(YYYYMMBB_HHMM) 20231110 0000	0.4	198
20231110_0000	0.4	282
20231110_0020	0.1	296
20231110 0030	0.4	112
20231110_0030	0.1	290
20231110_0040	0.1	55
20231110_0050	0.1	46
20231110_0100	0.1	334
20231110_0110	0.1	36
20231110_0120	0.4	349
<u>20231110_0130</u> 20231110_0140	0.5 0.1	<u>330</u> 297
20231110_0140	0.1	102
20231110_0130	0.1	2
20231110_0210	0.1	349
20231110 0220	1.1	102
20231110_0230	0.1	60
20231110_0240	0.1	149
20231110_0250	0.1	131
20231110_0300	0.1	20
20231110_0300	0.1	61
20231110_0320	0.1	6
20231110_0330	0.1	244
<u>20231110_0340</u> 20231110_0350	0.1 0.1	<u>278</u> 243
<u>20231110_0350</u> 20231110_0400	0.1	145
20231110_0400	0.1	322
20231110_0420	0.1	313
20231110_0430	0.2	180
20231110_0440	0.1	154
20231110_0450	0.1	216
20231110_0500	0.1	98
20231110_0510	0.1	64
20231110_0520	0.1	20
20231110_0530	0.1	285
20231110_0540	0.1	353
20231110_0550	0.1	110
<u>20231110_0600</u> 20231110_0610	0.1 0.1	<u>153</u> 130
20231110_0620	0.1	63
20231110_0630	0.1	49
20231110_0640	0.1	3
20231110_0650	0.2	71
20231110_0700	0.1	135
20231110_0710	0.6	32
20231110_0720	0.1	288
20231110_0730	0.9	301
20231110_0740	1.8	108
20231110_0750	0.1	35
20231110_0800 20231110_0810	0.1 0.9	159 19
20231110_0810	0.9	148
20231110_0820	0.1	148
20231110_0840	0.1	86
20231110_0850	0.1	18
20231110_0900	1.2	121
20231110_0910	0.1	93
20231110_0920	0.1	345
20231110_0930	0.3	62
20231110_0940	0.1	246
20231110_0950	0.1	34
20231110_1000	0.1	99
20231110_1010	1.5	88
<u>20231110_1020</u> 20231110_1030	1.8 0.1	<u>340</u> 65
20231110_1030	0.1	106
20231110_1040	0.1	329
20231110_1050	0.1	18
20231110_1100	0.2	92
20231110_1120	0.7	331

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231110 1200	1.9	61
20231110_1210	0.1	254
20231110_1220	0.1	168
20231110_1230	0.1	45
<u>20231110</u> 1240 20231110 1250	0.1 0.3	<u>316</u> 57
20231110_1230	0.2	338
20231110_1310	8.9	171
20231110_1320	1.3	159
20231110_1330	1.6	104
20231110_1340	0.1	328
<u>20231110_1350</u> 20231110_1400	4.1 2.8	<u>158</u> 114
<u>20231110_1400</u> 20231110_1410	0.1	327
20231110_1420	0.1	103
20231110_1430	0.1	78
20231110_1440	1.5	109
20231110_1450	2.5	314
20231110_1500	0.3	119
<u>20231110_1510</u> 20231110_1520	0.1	<u>211</u> 351
20231110_1520	0.1	159
20231110_1540	0.1	134
20231110_1550	0.9	340
20231110_1600	0.1	32
20231110_1610	0.3 0.7	<u>13</u> 6
<u>20231110_1620</u> 20231110_1630	0.7	107
20231110_1030	0.1	152
20231110_1650	0.1	45
20231110_1700	0.2	102
20231110_1710	0.1	313
<u>20231110_1720</u> 20231110_1730	0.1 1.8	<u>90</u> 118
20231110_1750	0.1	88
20231110_1750	0.7	104
20231110_1800	0.1	210
20231110_1810	0.2	271
20231110_1820	0.1	231
20231110_1830 20231110_1840	0.9 0.7	<u>189</u> 354
20231110_1840	0.7	318
20231110_1900	3.4	224
20231110_1910	0.8	4
20231110_1920	1.3	20
20231110_1930	0.2	324
<u>20231110_1940</u> 20231110_1950	0.1 0.4	<u>14</u> 26
20231110_1950	0.4	62
20231110_2010	0.1	27
20231110_2020	0.1	69
20231110_2030	0.1	144
20231110_2040 20231110_2050	0.1 0.1	351 322
20231110_2050	0.1	158
20231110_2110	0.1	274
20231110_2120	0.1	275
20231110_2130	0.1	149
20231110_2140	0.1	110
<u>20231110_2150</u> 20231110_2200	0.2 0.1	<u>132</u> 162
20231110_2200	0.1	310
20231110_2220	0.4	68
20231110_2230	0.1	93
20231110_2240	0.6	129
20231110_2250	0.7	0
20231110_2300	0.2	87
20231110_2310 20231110_2320	0.3	<u>342</u> 347
20231110_2320	0.9	<u> </u>
20231110_2340	0.9	130
20231110_2350	0.3	110

20201110_1120	0.1	551
20231110_1130	0.8	310
20231110_1140	0.1	213

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231111 0000	0.2	47
20231111_0010	0.2	175
20231111 0020	0.1	11
20231111 0030	0.1	33
20231111_0030	0.1	62
20231111_0040	0.1	48
20231111_0050	0.3	112
20231111_0100	0.1	8
20231111_0110	0.1	77
20231111_0120	1.4	14
<u>20231111_0130</u> 20231111_0140	1.8 0.9	<u> </u>
20231111_0140	0.9	19
20231111_0130	0.8	284
20231111_0200	6.8	118
20231111_0220	0.1	243
20231111 0230	0.5	113
20231111 0240	0.6	328
20231111_0250	0.2	187
20231111_0300	0.1	352
20231111_0310	1.5	65
20231111_0320	0.1	71
20231111_0330	0.1	332
20231111_0340	0.2	169
20231111_0350 20231111_0400	0.6 0.1	<u>31</u> 85
20231111_0400	0.1	127
20231111_0420	0.1	39
20231111_0420	0.9	353
20231111_0440	1.1	16
20231111_0450	0.1	153
20231111 0500	1.3	158
20231111_0510	0.9	172
20231111_0520	0.1	67
20231111_0530	0.7	150
20231111_0540	0.1	77
20231111_0550	0.3	90
20231111_0600	0.1	125
20231111_0610	0.5	157
<u>20231111_0620</u> 20231111_0630	0.1 1.8	<u>172</u> 140
20231111_0640	0.1	7
20231111_0040	1.1	30
20231111_0000	0.1	99
20231111_0710	0.4	153
20231111 0720	0.1	47
20231111_0730	0.5	60
20231111_0740	0.1	160
20231111_0750	0.1	251
20231111_0800	0.2	175
20231111_0810	0.1	117
20231111_0820	2.2	306
20231111_0830	2	353
<u>20231111_0840</u> 20231111_0850	<u>4.2</u> 0.1	<u>36</u> 124
20231111_0850	1.1	99
20231111_0900	2.1	106
20231111_0910	0.9	120
20231111_0920	1.5	109
20231111_0940	1.2	63
20231111_0950	1.3	120
20231111_1000	2.8	4
20231111_1010	0.1	211
20231111_1020	2.4	305
20231111_1030	1.4	28
20231111_1040	0.1	222
20231111_1050	0.1	92
20231111_1100	0.1	262
20231111_1110	5.9	28
20231111_1120	0.5	300

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231111_1200	0.2	14
20231111_1210	0.1	305
20231111_1220	0.1	201
20231111_1230	0.1	104
20231111 1240 20231111 1250	0.2 0.1	<u>338</u> 55
20231111_1230	1.4	120
20231111_1310	0.6	54
20231111_1320	0.0	334
20231111 1330	0.3	353
20231111_1340	0.1	135
20231111_1350	1.3	354
20231111_1400	0.5	169
20231111_1410	0.1	172
20231111_1420	0.5	344
<u>20231111_1430</u> 20231111_1440	0.1 1.3	68
<u>20231111_1440</u> 20231111_1450	0.1	<u> </u>
20231111_1430	0.2	7
20231111_1510	0.2	56
20231111_1510	0.1	310
20231111_1530	0.5	4
20231111_1540	0.1	149
20231111_1550	1.6	156
20231111_1600	0.1	296
20231111_1610	0.1	22
20231111_1620 20231111_1630	0.1 0.2	<u>66</u> 36
20231111_1640	0.2	340
20231111_1040	2	43
20231111_1000	2.2	23
20231111 1710	0.2	4
20231111_1720	0.3	135
20231111_1730	0.1	98
20231111_1740	0.1	119
20231111_1750	0.1	140
20231111_1800	0.2	111
20231111_1810 20231111_1820	0.3 0.1	183 28
20231111_1820	0.1	331
20231111_1840	0.1	115
20231111 1850	0.1	91
20231111_1900	0.1	128
20231111_1910	0.7	111
20231111_1920	0.5	45
20231111_1930	0.1	178
20231111_1940	0.1	328
20231111_1950	0.1	83
20231111_2000 20231111_2010	0.2 0.1	119 27
20231111_2010	0.1	35
20231111_2020	0.1	57
20231111_2040	0.1	132
20231111_2050	0.1	69
20231111_2100	0.1	99
20231111_2110	0.1	70
20231111_2120	0.1	352
20231111_2130	0.1	144
<u>20231111_2140</u> 20231111_2150	0.1 0.1	<u>120</u> 140
20231111_2130	0.1	140
20231111_2210	0.2	58
20231111_2220	0.1	232
20231111_2220	0.1	200
20231111_2240	0.1	60
20231111_2250	0.1	187
20231111_2300	0.1	78
20231111_2310	0.1	344
20231111_2320	0.1	148
20231111_2330	0.1	141
20231111_2340	0.1	134

20201111120	0.5	500
20231111_1130	0.1	182
20231111_1140	1.4	45

Date & Time	Wind Speed (m/s)	Wind Direction (Degree)
(YYYYMMBB_HHMM) 20231112 0000	0.1	110
20231112_0000	0.1	110
20231112_0020	0.1	110
20231112_0030	0.1	52
20231112_0030	0.1	74
20231112_0040	0.1	110
20231112_0050	0.1	110
<u>20231112_0100</u> 20231112_0110	0.1 0.1	<u> </u>
20231112_0110	0.1	155
20231112_0120	0.1	15
20231112_0140	0.1	147
20231112_0150	0.1	41
20231112_0200	0.4	0
20231112_0210	0.1	51
<u>20231112_0220</u> 20231112_0230	0.1 0.1	<u>49</u> 131
20231112_0230	0.1	295
20231112_0240	0.1	161
20231112 0300	0.1	184
20231112_0310	0.1	74
20231112_0320	0.1	169
20231112_0330	0.1	17
<u>20231112_0340</u> 20231112_0350	0.1 0.1	321
20231112_0350	0.1	<u>102</u> 102
20231112_0400	0.1	133
20231112_0420	0.1	84
20231112_0430	0.1	183
20231112_0440	0.1	183
20231112_0450	0.1	201
20231112_0500	0.1	167
<u>20231112_0510</u> 20231112_0520	0.1	<u>210</u> 137
20231112_0520	0.1	160
20231112_0540	0.1	314
20231112_0550	0.1	93
20231112_0600	0.1	93
20231112_0610	0.1	93
20231112_0620 20231112_0630	0.1	<u>212</u> 187
20231112_0030	0.1	258
20231112_0040	0.1	200
20231112_0000	0.2	228
20231112_0710	0.1	115
20231112_0720	0.1	182
20231112_0730	0.1	211
20231112_0740 20231112_0750	0.1	<u>195</u> 324
20231112_0750	0.1	209
20231112_0800	0.2	183
20231112_0820	0.3	163
20231112_0830	0.1	221
20231112_0840	0.1	166
20231112_0850	0.1	73
20231112_0900 20231112_0910	0.1 0.3	<u>244</u> 206
20231112_0910	0.3	106
20231112_0920	0.2	190
20231112_0940	0.1	118
20231112_0950	0.6	314
20231112_1000	0.1	315
20231112_1010	0.1	322
<u>20231112_1020</u> 20231112_1030	0.1 0.1	<u>276</u> 66
20231112_1030	1.6	64
20231112_1040	0.3	350
20231112_1100	0.1	282
20231112_1110	1.3	352
20231112 1120	0.1	17

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231112_1200	0.1	92
20231112_1210	2.3	76
20231112_1220	1.8	130
<u>20231112_1230</u> 20231112_1240	0.4 0.4	<u>135</u> 98
<u>20231112_1240</u> 20231112_1250	0.4	53
20231112 1230	0.1	132
20231112_1310	0.1	47
20231112_1320	2.3	46
20231112_1330	0.3	311
20231112_1340	1	350
20231112_1350	0.1	8
20231112_1400	4.9	57
<u>20231112_1410</u> 20231112_1420	0.1	332
<u>20231112_1420</u> 20231112_1430	0.6 0.1	<u>86</u> 47
20231112_1430	0.1	31
20231112_1450	0.1	166
20231112_1500	0.1	224
20231112 1510	0.4	12
20231112_1520	0.1	25
20231112_1530	1.9	66
20231112_1540	1.8	52
20231112_1550	0.2	44
20231112_1600	0.1 3.1	<u>272</u> 284
<u>20231112_1610</u> 20231112_1620	0.1	284 288
20231112 1630	0.1	110
20231112_1640	2.5	349
20231112 1650	0.1	333
20231112_1700	0.2	108
20231112_1710	0.8	336
20231112_1720	0.1	279
20231112_1730	0.2	56
20231112_1740	0.1	319
<u>20231112_1750</u> 20231112_1800	0.1 0.1	<u>2</u> 75
20231112_1810	0.7	104
20231112_1810	0.1	174
20231112_1830	0.1	12
20231112_1840	0.3	36
20231112_1850	0.1	84
20231112_1900	1	22
20231112_1910	0.1	127
20231112_1920	0.3	323
20231112_1930	0.1	332
<u>20231112_1940</u> 20231112_1950	0.1 0.1	75 92
20231112_1950	0.1	25
20231112_2000	0.1	78
20231112_2020	0.1	92
20231112_2030	0.1	47
20231112_2040	0.1	19
20231112_2050	0.1	72
20231112_2100	0.1	68
20231112_2110	0.1	144
<u>20231112_2120</u> 20231112_2130	0.1	303
20231112_2130	0.5	<u>304</u> 312
20231112_2140	0.5	292
20231112_2150	0.1	292
20231112_2210	0.1	280
20231112_2220	0.1	283
20231112 2230	0.5	291
20231112_2240	0.1	47
20231112_2250	0.1	83
20231112_2300	0.1	164
20231112_2310	0.5	326
20231112_2320	0.1	138
<u>20231112_2330</u> 20231112_2340	0.1	42 321
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20201112_1120	0.1	17
20231112_1130	0.1	70
20231112_1140	0.1	73

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231113 0000	0.1	145
20231113_0010	0.1	303
20231113 0020	0.1	343
20231113_0030	0.1	85
20231113_0040	2.7	283
20231113_0050	0.1	340
20231113_0100	0.4	330
20231113_0110	0.1	28
20231113_0120	1.8	40
<u>20231113_0130</u> 20231113_0140	0.9 0.1	<u>27</u> 223
<u>20231113_0140</u> 20231113_0150	0.1	125
20231113_0200	0.5	324
20231113_0210	0.1	226
20231113 0220	0.1	336
20231113_0230	0.1	17
20231113_0240	0.1	47
20231113_0250	0.1	81
20231113_0300	0.1	279
20231113_0310	0.1	300
20231113_0320	0.1	148
20231113_0330	0.1	121
20231113_0340 20231113_0350	0.5	313
<u>20231113_0350</u> 20231113_0400	0.1 0.1	<u>267</u> 312
20231113_0400	1	316
20231113_0420	0.3	334
20231113_0430	0.1	97
20231113 0440	0.1	318
20231113_0450	0.1	340
20231113_0500	0.1	173
20231113_0510	0.1	38
20231113_0520	0.1	53
20231113_0530	0.1	128
20231113_0540	0.1	348
20231113_0550 20231113_0600	0.1 0.1	<u>300</u> 332
20231113_0610	0.1	266
20231113_0620	0.1	294
20231113_0630	0.1	282
20231113 0640	0.1	62
20231113_0650	0.1	311
20231113_0700	0.1	180
20231113_0710	0.1	108
20231113_0720	0.1	311
20231113_0730	0.1	310
20231113_0740	0.1	52
20231113_0750	0.1	304
<u>20231113_0800</u> 20231113_0810	0.1 0.1	<u>105</u> 47
20231113_0810	1.1	47
20231113_0820	0.1	308
20231113_0840	0.1	43
20231113_0850	2.2	302
20231113_0900	0.1	330
20231113_0910	0.1	51
20231113_0920	2.9	51
20231113_0930	2.9	333
20231113_0940	0.1	12
20231113_0950	2.4	53
20231113_1000	2.2	52
20231113_1010	0.4	146
20231113_1020	0.9	41
20231113_1030 20231113_1040	0.1 0.1	<u>236</u> 342
20231113_1040	1.3	<u> </u>
20231113_100	0.3	25
20231113_1100	0.3	12
20231113_1120	0.5	33
20231113_1130	1	72

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231113_1200	3.3	81
20231113_1210	0.1	43
20231113_1220	0.5	337
<u>20231113_1230</u> 20231113_1240	2.3 0.1	93 63
<u>20231113_1240</u> 20231113_1250	2.3	105
20231113_1250	1	105
20231113_1310	0.1	18
20231113 1320	0.2	57
20231113_1330	0.2	183
20231113_1340	2.5	14
20231113_1350	0.4	81
20231113_1400	0.2	210
20231113_1410	0.2	266
<u>20231113_1420</u> 20231113_1430	0.1	<u>333</u> 321
20231113_1440	0.1	36
20231113_1440	0.1	85
20231113_1500	0.7	293
20231113_1510	0.2	102
20231113 1520	0.5	11
20231113_1530	0.2	36
20231113_1540	0.2	298
20231113_1550	0.1	59
20231113_1600	0.4	27
20231113_1610	0.1	354
20231113_1620	0.8	65
<u>20231113_1630</u> 20231113_1640	0.1	348
<u>20231113_1640</u> 20231113_1650	0.1 0.1	23 4
20231113_1700	0.1	294
20231113_1710	0.2	347
20231113_1720	0.3	252
20231113 1730	0.1	341
20231113_1740	0.1	350
20231113_1750	0.3	335
20231113_1800	0.1	147
20231113_1810	0.1	312
20231113_1820	0.1	275
20231113_1830	0.1	334
<u>20231113_1840</u> 20231113_1850		3
<u>20231113_1850</u> 20231113_1900	0.2 0.1	<u>343</u> 141
20231113_1900	0.1	114
20231113_1920	0.1	329
20231113_1930	0.1	61
20231113_1940	0.3	306
20231113_1950	0.1	2
20231113_2000	0.1	308
20231113_2010	0.1	143
20231113_2020	0.1	115
20231113_2030	0.1	160
20231113_2040	0.1	300
20231113_2050	0.1	78
<u>20231113_2100</u> 20231113_2110	0.1 0.1	<u>284</u> 342
20231113_2120	0.1	<u> </u>
20231113_2120	0.1	60
20231113_2140	0.1	109
20231113_2150	0.5	28
20231113_2200	0.1	237
20231113_2210	0.1	347
20231113_2220	0.1	271
20231113_2230	0.1	96
20231113_2240	0.1	152
20231113_2250	0.1	218
20231113_2300	0.1	241
20231113_2310	0.1	104
<u>20231113_2320</u> 20231113_2330	0.1	13
20231113_2330	0.1	161 81

20201110_1100	1	12
20231113_1140	0.6	59
20231113_1150	0.2	296

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231114 0000	0.1	113
20231114_0010	0.1	199
20231114_0020	0.1	169
20231114_0020	0.1	326
20231114_0030	0.1	292
20231114_0040	1.3	330
20231114_0050	0.1	76
20231114_0100	0.5	333
<u>20231114_0110</u> 20231114_0120	0.1 0.1	40 322
20231114_0120	0.1	52
20231114_0140	0.1	232
20231114 0150	0.1	94
20231114_0200	0.1	52
20231114_0210	0.1	111
20231114_0220	0.1	168
20231114_0230	0.1	87
20231114_0240	0.1	97
20231114_0250 20231114_0300	0.1	<u>342</u> 266
20231114_0300	0.1	352
20231114_0320	0.1	306
20231114_0330	0.1	87
20231114_0340	0.1	352
20231114_0350	0.1	333
20231114_0400	0.3	339
20231114_0410	1.1	316
20231114_0420	0.1	297
<u>20231114_0430</u> 20231114_0440	0.1 0.3	248 315
20231114_0440	1.3	70
20231114_0500	0.2	286
20231114 0510	0.1	342
20231114_0520	0.5	299
20231114_0530	0.1	149
20231114_0540	0.1	238
20231114_0550	0.1	350
20231114_0600	0.1	272
<u>20231114_0610</u> 20231114_0620	0.1 0.1	<u>95</u> 66
20231114_0020	0.1	311
20231114_0640	0.1	120
20231114 0650	0.1	90
20231114_0700	0.1	102
20231114_0710	0.1	224
20231114_0720	0.1	266
20231114_0730	0.1	241
20231114_0740 20231114_0750	0.2 0.1	<u>184</u> 100
20231114_0730	0.1	100
20231114_0810	0.1	139
20231114_0820	0.1	59
20231114_0830	0.6	97
20231114_0840	0.1	10
20231114_0850	0.1	106
20231114_0900	0.1	158
20231114_0910 20231114_0920	0.1 0.1	<u>166</u> 229
20231114_0920	1.8	131
20231114_0930	0.4	226
20231114 0950	0.1	220
20231114_0950 20231114_1000		220 113
20231114_1000 20231114_1010	0.1 0.1 0.3	113 78
20231114_1000 20231114_1010 20231114_1020	0.1 0.1 0.3 1.9	113 78 163
20231114_1000 20231114_1010 20231114_1020 20231114_1030	0.1 0.1 0.3 1.9 0.1	113 78 163 181
20231114_1000 20231114_1010 20231114_1020 20231114_1030 20231114_1040	0.1 0.1 0.3 1.9 0.1 0.1	113 78 163 181 68
20231114 1000 20231114 1010 20231114 1020 20231114 1030 20231114 1040 20231114 1050	0.1 0.1 0.3 1.9 0.1 0.1 0.3	113 78 163 181 68 123
20231114_1000 20231114_1010 20231114_1020 20231114_1030 20231114_1040	0.1 0.1 0.3 1.9 0.1 0.1	113 78 163 181 68

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231114_1200	0.4	55
20231114_1210	0.2	158
20231114_1220	0.3	11
20231114_1230	3.2	241
20231114_1240	1.7	258
<u>20231114_1250</u> 20231114_1300	<u>1.4</u> 1.5	14 312
20231114_1310	0.9	312
20231114_1320	1.7	122
20231114_1330	2.4	121
20231114_1340	3.7	106
20231114_1350	0.3	64
20231114_1400	0.2	241
20231114_1410	0.1	89
20231114_1420	0.8	0
20231114_1430	0.1	67
<u>20231114_1440</u> 20231114_1450	0.3 0.1	<u>315</u> 67
<u>20231114_1450</u> 20231114_1500	0.1	38
20231114_1510	0.1	327
20231114_1520	0.1	107
20231114_1530	0.9	113
20231114_1540	0.1	61
20231114_1550	0.1	271
20231114_1600	0.1	28
20231114_1610	0.1	314
20231114_1620	0.1	238
20231114_1630	0.1	326
20231114_1640	0.1	60
<u>20231114_1650</u> 20231114_1700	0.1	<u> </u>
20231114_1710	0.1	81
20231114_1710	0.1	66
20231114_1720	0.1	7
20231114_1740	0.1	329
20231114 1750	0.1	16
20231114_1800	0.1	63
20231114_1810	0.1	40
20231114_1820	0.1	337
20231114_1830	0.1	80
20231114_1840	0.1	1
20231114_1850	0.1	75
<u>20231114_1900</u> 20231114_1910	0.1 0.1	<u>43</u> 64
20231114_1910	0.1	350
20231114_1920	0.1	61
20231114_1940	0.1	345
20231114_1950	0.1	49
20231114_2000	0.1	62
20231114_2010	0.1	13
20231114_2020	0.1	103
20231114_2030	0.1	98
20231114_2040	0.1	60
20231114_2050	0.1	6
20231114_2100	0.1	52
<u>20231114_2110</u> 20231114_2120	0.1 0.1	47 48
20231114_2120	0.1	<u> </u>
20231114_2130	0.1	331
20231114_2150	0.1	131
20231114_2200	0.1	153
20231114_2210	0.1	88
20231114_2220	0.1	61
20231114 2230	0.1	9
20231114_2240	0.1	50
20231114_2250	0.1	66
20231114_2300	0.1	161
20231114_2310	0.1	128
20231114_2320	0.1	56
<u>20231114_2330</u> 20231114_2340	0.1	47 47
20231114 2340	0.1	47

2020111_1120	0.1	11/
20231114_1130	0.1	51
20231114_1140	1.5	104

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231115_0000	0.1	167
20231115_0010	0.1	237
20231115_0020	0.1	94
20231115_0020	0.1	61
20231115_0030	0.1	53
20231115_0040	0.1	49
20231115_0050	0.1	349
20231115_0100	0.1	87
<u>20231115_0110</u> 20231115_0120	0.1 0.1	<u>102</u> 106
20231115_0120	0.1	154
20231115_0140	0.1	341
20231115_0150	0.1	67
20231115 0200	0.1	86
20231115_0210	0.1	113
20231115_0220	0.1	123
20231115_0230	0.1	172
20231115_0240	0.1	64
20231115_0250	0.1	58
<u>20231115_0300</u> 20231115_0310	0.1 0.1	<u>79</u> 346
20231115_0310	0.1	340
20231115_0320	0.1	295
20231115_0340	0.1	169
20231115_0350	0.1	127
20231115_0400	0.1	162
20231115_0410	0.1	158
20231115_0420	0.1	147
20231115_0430	0.1	160
20231115_0440	0.1	159
20231115_0450	0.1	74
20231115_0500	0.1	68
<u>20231115_0510</u> 20231115_0520	0.1	<u>123</u> 100
20231115_0520	0.1	60
20231115_0540	0.1	64
20231115 0550	0.1	11
20231115_0600	0.1	74
20231115_0610	0.1	34
20231115_0620	0.1	62
20231115_0630	0.1	19
20231115_0640	0.1	70
20231115_0650 20231115_0700	0.1 0.1	<u>35</u> 149
20231115_0700	0.1	224
20231115_0710	0.1	184
20231115_0720	0.1	212
20231115_0740	0.1	204
20231115_0750	0.1	149
20231115_0800	0.1	178
20231115_0810	0.2	209
20231115_0820	0.1	144
20231115_0830	0.1	142
<u>20231115_0840</u> 20231115_0850	0.1 0.1	<u>161</u> 92
20231115_0830	0.1	102
20231115_0900	0.1	129
20231115_0920	0.1	184
20231115_0930	0.1	199
20231115_0940	0.1	105
20231115_0950	0.6	214
20231115_1000	0.3	220
20231115_1010	1	195
20231115_1020	0.1	311
20231115_1030	0.4	7
<u>20231115_1040</u> 20231115_1050	0.1 0.7	<u>186</u> 7
20231115_1050	1.3	333
20231113 1100	1.5	
20231115 1110	2	51

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231115_1200	4.3	132
20231115_1210	0.1	36
20231115_1220	0.8	100
20231115_1230	2.6	171
20231115_1240 20231115_1250	0.2 0.6	<u>106</u> 339
<u>20231115_1250</u> 20231115_1300	0.0	193
20231115_1300	0.1	334
20231115_1310	0.4	130
20231115_1320	0.1	82
20231115 1340	0.5	54
20231115_1350	0.4	303
20231115_1400	0.6	19
20231115_1410	0.6	8
20231115_1420	1	125
20231115_1430	1	50
20231115_1440	0.3	75
20231115_1450	0.8	348
<u>20231115_1500</u> 20231115_1510	0.7 0.2	<u>50</u> 32
<u>20231115_1510</u> 20231115_1520	0.2	34
20231115_1520	0.1	163
20231115_1550	0.1	89
20231115_1550	2.2	348
20231115_1600	0.1	128
20231115_1610	0.1	349
20231115_1620	0.1	230
20231115_1630	0.1	25
20231115_1640	0.3	187
20231115_1650	0.1	128
20231115_1700	0.2	135
20231115_1710	0.1	67
<u>20231115_1720</u> 20231115_1730	0.1 0.1	<u>351</u> 89
20231115_1730	0.1	108
20231115_1750	0.1	54
20231115_1800	0.1	108
20231115 1810	0.1	109
20231115_1820	0.1	61
20231115_1830	0.1	67
20231115_1840	0.1	45
20231115_1850	0.1	105
20231115_1900	0.1	81
20231115_1910 20231115_1920	0.1 0.1	<u>57</u> 36
20231115_1920	0.1	17
20231115_1940	0.1	316
20231115_1950	0.1	57
20231115_2000	0.1	50
20231115_2010	0.1	324
20231115_2020	0.1	25
20231115_2030	0.1	63
20231115_2040	0.1	49
20231115_2050	0.1	32
20231115_2100	0.1	61
<u>20231115_2110</u> 20231115_2120	0.1	57 22
20231115_2120	0.1	42
20231115_2130	0.1	0
20231115_2140	0.1	55
20231115_2200	0.1	171
20231115_2210	0.1	160
20231115_2220	0.1	74
20231115 2230	0.1	181
20231115_2240	0.1	225
20231115_2250	0.1	145
20231115_2300	0.1	26
20231115_2310	0.2	237
20231115_2320	0.1	297
20231115_2330 20231115_2340	0.1 0.1	<u>48</u> 98
		90

20231115_1120	0.1	17
20231115_1130	0.2	221
20231115_1140	0.7	159

Date & Time	Wind Speed (m/s)	Wind Direction (Degree)
(YYYYMMBB_HHMM) 20231116 0000	0.1	216
20231116_0000	0.1	138
20231116_0020	0.1	197
20231116_0020	0.1	12
20231116_0030	0.1	63
20231116_0040	0.1	61
<u>20231116_0050</u> 20231116_0100	0.1 0.1	<u>63</u> 201
20231116_0100	0.1	339
20231116_0120	0.1	56
20231116_0130	0.1	117
20231116_0140	0.1	7
20231116_0150	0.1	<u>38</u> 12
20231116_0200 20231116_0210	0.1 0.1	70
20231116_0220	0.1	87
20231116 0230	0.1	101
20231116_0240	0.1	101
20231116_0250	0.1	82
20231116_0300	0.1	75
<u>20231116_0310</u> 20231116_0320	0.1	<u>55</u> 55
<u>20231116_0320</u> 20231116_0330	0.1 0.1	
20231116_0340	0.1	105
20231116_0350	0.1	105
20231116_0400	0.1	139
20231116_0410	0.6	79
20231116_0420	0.2	86
20231116_0430 20231116_0440	0.1 0.1	<u>83</u> 65
20231116_0440	0.1	97
20231116 0500	0.2	102
20231116_0510	0.1	184
20231116_0520	0.1	103
20231116_0530	0.1	22
20231116_0540	0.1	46
<u>20231116_0550</u> 20231116_0600	0.3 0.1	<u>96</u> 67
20231116_0610	0.1	148
20231116_0620	0.1	165
20231116_0630	0.1	179
20231116_0640	0.5	160
20231116_0650	0.1	154
20231116_0700 20231116_0710	0.1	<u>93</u> 88
20231116_0720	0.1	232
20231116 0730	0.3	222
20231116_0740	0.6	167
20231116_0750	0.3	177
20231116_0800 20231116_0810	0.1	151 181
20231116_0810	0.1 2.4	181 162
20231116_0820	0.5	187
20231116_0840	0.2	187
20231116_0850	0.1	110
20231116_0900	0.3	180
20231116_0910	0.1	15
20231116_0920 20231116_0930	0.1 0.1	<u>152</u> 38
20231116_0930	0.1	303
20231116_0950	0.1	50
20231116_1000	0.2	328
20231116_1010	0.2	93
20231116_1020	0.1	10
20231116_1030	0.6	100
<u>20231116_1040</u> 20231116_1050	0.5 0.2	<u>351</u> 82
20231116_1030	0.2	347
20231116_1110	1.2	332
20231116_1120	1.4	258

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231116_1200	0.2	41
20231116_1210	10	335
20231116_1220	0.6	320
20231116_1230	0.1	331
20231116_1240	2.4	61
<u>20231116_1250</u> 20231116_1300	0.8 0.4	<u>116</u> 328
20231116_1310	0.4	96
20231116_1310	1.4	66
20231116_1330	0.3	84
20231116_1340	0.3	221
20231116_1350	1.7	22
20231116_1400	0.4	36
20231116_1410	3.8	100
20231116_1420	0.3	141
20231116_1430	1.2	65
<u>20231116_1440</u> 20231116_1450	0.8	<u>139</u> 59
20231116_1430	0.1	89
20231116_1510	3.5	112
20231116_1510	3.2	13
20231116_1520	0.1	11
20231116_1540	2.9	87
20231116_1550	0.7	116
20231116_1600	0.3	279
20231116_1610	1.3	60
20231116_1620	0.6	67
20231116_1630	1.8	326
20231116_1640	0.9	309
20231116_1650	1.1	299
<u>20231116_1700</u> 20231116_1710	0.1 0.1	<u> </u>
20231116_1710	0.1	211
20231116_1720	0.3	261
20231116_1730	0.1	321
20231116_1750	0.1	309
20231116_1800	1.1	37
20231116_1810	0.3	336
20231116_1820	0.2	70
20231116_1830	0.1	114
20231116_1840	0.2	54
20231116_1850 20231116_1900	0.1	347
20231116_1900	0.2 0.1	<u>39</u> 29
20231116_1910	0.1	263
20231116_1920	0.4	78
20231116_1940	0.2	330
20231116_1950	0.2	138
20231116 2000	0.2	284
20231116_2010	0.1	164
20231116_2020	1.8	280
20231116_2030	3.1	271
20231116_2040	1.8	288
20231116_2050	2.1	99
20231116_2100	0.1 0.2	151
<u>20231116_2110</u> 20231116_2120	0.2	<u>45</u> 224
20231116_2120	1.5	194
20231116_2130	0.1	37
20231116_2150	0.1	339
20231116_2200	1.9	153
20231116_2210	0.1	286
20231116_2220	0.3	279
20231116_2230	0.4	311
20231116_2240	0.1	297
20231116_2250	0.6	51
20231116_2300	0.7	252
20231116_2310	0.6	227
20231116_2320	0.1	240
<u>20231116_2330</u> 20231116_2340	0.1	<u> </u>
	() [171

20201110_1120	1.1	250
20231116_1130	0.2	154
20231116_1140	3.5	297

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231117 0000	0.1	18
20231117_0010	0.1	262
20231117_0020	0.6	261
20231117_0030	1.3	64
20231117 0040	0.1	31
20231117_0050	1.6	314
20231117_0100	5.7	322
20231117_0110	0.9	31
20231117_0120	0.1	53
20231117_0130	0.4	76
20231117_0140	0.1	293
20231117_0150	0.1	314
<u>20231117_0200</u> 20231117_0210	0.1 1.5	<u>238</u> 53
20231117_0210	0.1	305
20231117_0220	0.1	7
20231117_0240	5.6	107
20231117_0250	1.8	243
20231117_0300	0.3	50
20231117 0310	0.1	186
20231117_0320	1.8	218
20231117_0330	0.2	199
20231117_0340	1.1	24
20231117_0350	1.8	140
20231117_0400	3.1	37
20231117_0410	1.8	32
<u>20231117_0420</u> 20231117_0430	2 1.5	<u>80</u> 8
<u>20231117_0430</u> 20231117_0440	0.2	207
20231117_0440	0.1	72
20231117_0430	0.9	145
20231117_0510	0.1	189
20231117_0520	0.1	315
20231117 0530	1.3	59
20231117_0540	3.3	125
20231117_0550	1.8	152
20231117_0600	2.1	294
20231117_0610	3.1	196
20231117_0620	0.7	209
20231117_0630	4.9	238
20231117_0640	0.1	334
20231117_0650 20231117_0700	2.8 1.9	<u>183</u> 118
20231117_0700	1.9	118
20231117_0710	9.5	102
20231117_0720	3	219
20231117_0740	1.3	183
20231117_0750	0.2	187
20231117_0800	2.8	182
20231117_0810	0.1	61
20231117_0820	9.2	95
20231117_0830	1.2	160
20231117_0840	0.2	49
20231117_0850	0.9	170
20231117_0900	3.7	98
20231117_0910	0.1	81
20231117_0920 20231117_0930	3.5	1
20231117_0930	0.4 0.3	<u>345</u> 297
20231117_0940	0.5	353
20231117_0930	3.2	300
20231117_1010	0.1	44
20231117_1010	0.1	213
20231117_1020	0.5	38
20231117_1040	3.2	313
20231117_1050	3.3	355
20231117_1100	1.5	341
20231117_1110	0.2	272
20231117_1120	3.7	302
20231117_1130	0.9	304

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231117_1200	1.9	35
20231117_1210	0.2	68
20231117_1220	4.3	25
20231117_1230	0.2	247
20231117_1240	2.1	106
20231117_1250	0.7	31
20231117_1300	0.2	66
20231117_1310	<u>1.2</u> 1.3	339
<u>20231117_1320</u> 20231117_1330	0.1	<u>64</u> 347
20231117_1340	2.3	305
20231117_1350	0.1	191
20231117_1400	0.2	284
20231117 1410	1.3	345
20231117_1420	2.3	330
20231117_1430	0.6	49
20231117_1440	0.1	17
20231117_1450	0.4	278
20231117_1500	1.1	320
<u>20231117_1510</u> 20231117_1520	2.5 0.4	<u> 274 </u> 220
<u>20231117_1520</u> 20231117_1530	0.4	324
20231117_1540	0.1	<u> </u>
20231117_1540	0.1	123
20231117_1600	0.1	352
20231117 1610	0.1	165
20231117_1620	0.1	49
20231117_1630	0.7	22
20231117_1640	0.2	39
20231117_1650	1.4	119
20231117_1700	0.2	57
20231117_1710	0.9	338
<u>20231117_1720</u> 20231117_1730	0.1	57 6
20231117_1750	0.1	47
20231117_1740	0.1	39
20231117_1800	0.1	137
20231117_1810	0.1	76
20231117 1820	0.1	98
20231117_1830	1	82
20231117_1840	0.1	151
20231117_1850	0.1	266
20231117_1900	1	42
20231117_1910	0.1	47
<u>20231117_1920</u> 20231117_1930	0.1 2.9	<u> </u>
20231117_1930	7.5	344
20231117_1940	1.2	132
20231117_1930	0.2	87
20231117_2010	0.1	93
20231117_2020	1.2	84
20231117_2030	1.9	300
20231117_2040	0.9	308
20231117_2050	0.4	91
20231117_2100	0.1	26
<u>20231117_2110</u> 20231117_2120	0.1 0.1	<u>273</u> 47
20231117_2120	1.3	55
20231117_2140	0.2	57
20231117_2140	1.8	103
20231117_2200	1.2	27
20231117_2210	1.1	29
20231117_2220	0.7	104
20231117_2230	0.2	11
20231117_2240	3.3	42
20231117_2250	3.2	103
20231117_2300	0.1	314
20231117_2310	0.1	181
20231117_2320	0.1	294
<u>20231117_2330</u> 20231117_2340	0.1	48 29
	U.1	27

2020111/_1100	0.7	501
20231117_1140	0.2	329
20231117_1150	2.9	338

Date & Time	Wind Speed (m/s)	Wind Direction (Degree)
(YYYYMMBB_HHMM) 20231118 0000	0.1	100
20231118_0010	0.1	51
20231118_0020	0.1	42
20231118_0030	0.1	21
20231118_0040	0.1	19
<u>20231118_0050</u> 20231118_0100	0.1 0.1	<u>79</u> 117
20231118_0100	0.1	48
20231118_0120	0.1	117
20231118_0130	0.1	74
20231118_0140	0.1	42
20231118_0150	0.1	52
<u>20231118_0200</u> 20231118_0210	0.1	<u>50</u> 39
20231118_0210	0.1 0.1	49
20231118_0220	0.1	29
20231118 0240	0.1	36
20231118_0250	0.1	53
20231118_0300	0.1	81
20231118_0310	0.2	67
20231118_0320 20231118_0330	0.1 0.1	79
20231118_0330	0.1	40 44
20231118_0340	0.1	37
20231118_0400	0.1	40
20231118_0410	0.1	53
20231118_0420	0.1	53
20231118_0430	0.1	46
<u>20231118_0440</u> 20231118_0450	0.1 0.1	42
20231118_0430	0.1	<u> </u>
20231118_0510	0.1	27
20231118_0520	0.1	57
20231118_0530	0.1	19
20231118_0540	0.1	19
20231118_0550	0.1	44
20231118_0600	0.1	40
<u>20231118_0610</u> 20231118_0620	0.1 0.1	<u>21</u> 44
20231118_0630	0.1	33
20231118_0640	0.1	47
20231118_0650	0.1	46
20231118_0700	0.1	41
20231118_0710	0.1	14
20231118_0720 20231118_0730	0.1 0.1	<u> </u>
20231118_0730	0.1	54
20231118_0750	0.1	89
20231118_0800	0.1	114
20231118_0810	0.1	330
20231118_0820	0.1	182
20231118_0830	0.1	112
20231118_0840 20231118_0850	0.2 0.1	<u>116</u> 146
20231118_0830	0.1	140
20231118_0910	0.1	197
20231118_0920	0.1	174
20231118_0930	0.5	251
20231118_0940	0.1	119
20231118_0950	0.2	107
20231118_1000 20231118_1010	1.3 0.5	<u>251</u> 235
20231118_1010	0.5	340
20231118_1020	0.0	176
20231118_1040	3.1	304
20231118_1050	0.2	61
20231118_1100	0.3	97
20231118_1110	0.8	333
<u>20231118_1120</u> 20231118_1130	3.6	47
20231118_1130	0.2	266

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231118_1200	2.7	5
20231118_1210	0.2	284
20231118_1220		57
20231118_1230	0.8	191
20231118_1240	0.1 0.2	<u>85</u> 355
20201110_1250	2	347
<u>20231118_1300</u> 20231118_1310	3.6	<u> </u>
20231118_1310	0.1	272
20231118_1320	0.1	47
20231118_1340	0.1	261
20231118_1350	0.1	168
20231118_1550	1.7	191
20231118_1410	0.7	35
20231118_1420	0.1	123
20231118 1420	0.2	44
20231118_1440	0.2	70
20231118_1450	0.2	49
20231118_1500	0.2	338
20231118_1510	0.1	104
20231118_1510	1	52
20231118_1520	0.2	67
20231118_1540	1.2	115
20231118_1550	0.1	96
20231118_1600	0.1	14
20231118 1610	0.2	12
20231118_1620	0.1	105
20231118_1630	0.1	66
20231118 1640	0.1	100
20231118_1650	0.1	81
20231118_1700	0.1	16
20231118_1710	0.1	29
20231118_1720	0.1	352
20231118_1730	0.1	40
20231118_1740	0.1	342
20231118_1750	0.1	346
20231118_1800	0.1	336
20231118_1810	0.1	5
20231118_1820	0.1	354
20231118_1830	0.1	9
20231118_1840	0.1	330
20231118_1850	0.1	344
20231118_1900	0.1	19
20231118_1910	0.1	4
20231118_1920	0.1	5
20231118_1930	0.1	18
20231118_1940	0.1	348 32
<u>20231118_1950</u> 20231118_2000	0.1 0.1	32 31
20231118_2000	0.1	15
20231118_2020	0.1	21
20231118_2030	0.1	18
20231118_2040	0.1	30
20231118_2050	0.1	327
20231118_2100	0.1	78
20231118_2110	0.1	353
20231118_2120	0.1	67
20231118_2130	0.1	51
20231118_2140	0.1	53
20231118_2150	0.1	61
20231118_2200	0.1	40
20231118_2210	0.1	52
20231118_2220	0.1	21
20231118_2230	0.1	59
20231118_2240	0.1	42
20231118_2250	0.1	44
20231118_2300	0.1	33
20231118_2310	0.1	32
20231118_2320	0.1	46
20231118_2330	0.1	50
20231118_2340	0.1	85
20231118 2350	0.1	60

	0.2	200
20231118_1140	1.2	339
20231118_1150	1	321

Date & Time	Wind Speed (m/s)	Wind Direction (Degree)
(YYYYMMBB_HHMM) 20231119 0000	0.1	295
20231119_0000	0.1	156
20231119 0020	0.1	90
20231119_0030	0.1	97
20231119_0040	0.1	69
20231119_0050	0.1	135
20231119_0100	0.1	87
20231119_0110	0.1	73
<u>20231119_0120</u> 20231119_0130	0.1 0.1	<u>56</u> 32
20231119_0130	0.1	78
20231119_0150	0.1	27
20231119 0200	0.1	58
20231119_0210	0.1	50
20231119_0220	0.1	41
20231119_0230	0.1	50
20231119_0240	0.1	79
20231119_0250	0.1	77
20231119_0300	0.1	26
<u>20231119_0310</u> 20231119_0320	0.1 0.1	<u>103</u> 93
20231119_0320	0.1	77
20231119_0340	0.1	197
20231119_0350	0.1	52
20231119_0400	0.1	87
20231119_0410	0.1	230
20231119_0420	0.1	43
20231119_0430	0.1	30
20231119_0440 20231119_0450	0.1	32
20231119_0430	0.1	<u>178</u> 316
20231119_0510	0.1	71
20231119_0520	0.1	62
20231119 0530	0.1	42
20231119_0540	0.1	348
20231119_0550	0.1	341
20231119_0600	0.1	324
20231119_0610	0.1	106
<u>20231119_0620</u> 20231119_0630	0.1	78 72
20231119_0630	0.1	49
20231119_0040	0.1	31
20231119_0700	0.1	36
20231119 0710	0.1	58
20231119_0720	0.1	8
20231119_0730	0.1	168
20231119_0740	0.1	156
20231119_0750	0.1	0
20231119_0800 20231119_0810	0.1 0.1	<u>117</u> 148
20231119_0810	0.1	148
20231119_0830	0.1	140
20231119_0840	0.1	124
20231119_0850	0.1	148
20231119_0900	0.2	143
20231119_0910	0.1	84
20231119_0920	0.1	150
20231119_0930	0.1	174
20231119_0940 20231119_0950	0.1 0.1	<u>161</u> 153
20231119_0930	0.1	98
20231119_1010	0.1	55
20231119_1020	0.9	117
20231119_1020	0.1	14
20231119_1040	0.1	-1
20231119_1050	0.2	106
20231119_1100	0.2	133
20231119_1110	1.1	141
20231119_1120	0.3	139
20231119_1130	0.5	8

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231119_1200	0.1	7
20231119_1210	0.2	104
20231119_1220	2.5	117
<u>20231119_1230</u> 20231119_1240	0.1 0.2	<u> </u>
20231119_1240	0.2	216
20231119 1300	0.1	336
20231119_1310	0.4	171
20231119_1320	0.1	190
20231119_1330 20231119_1340	0.4 1.5	40
<u>20231119_1340</u> 20231119_1350	0.1	<u>48</u> 148
20231119_1400	0.6	324
20231119_1410	0.6	342
20231119_1420	0.1	246
20231119_1430	0.1	274
<u>20231119_1440</u> 20231119_1450	0.6 0.1	<u>356</u> 41
20231119_1430	0.1	133
20231119_1510	0.5	26
20231119_1520	0.1	269
20231119_1530	0.1	287
20231119_1540	0.1	65
<u>20231119_1550</u> 20231119_1600	0.8 2.4	<u>109</u> 107
20231119_1610	0.1	107
20231119_1620	0.1	118
20231119_1630	1.2	171
20231119_1640	0.1	27
<u>20231119_1650</u> 20231119_1700	0.1 0.8	<u>48</u> 58
20231119_1710	0.1	118
20231119 1720	0.1	18
20231119_1730	0.1	13
20231119_1740	0.1	33
20231119_1750	0.1	21
20231119_1800 20231119_1810	0.1 0.1	<u>40</u> 39
20231119_1810	0.1	43
20231119_1830	0.1	33
20231119_1840	0.1	345
20231119_1850	0.1	92
<u>20231119_1900</u> 20231119_1910	0.1 0.1	348 332
20231119_1910	0.1	342
20231119_1930	0.1	350
20231119_1940	0.1	1
20231119_1950	0.1	344
20231119_2000	0.1	59
20231119_2010 20231119_2020	0.1 0.1	<u>20</u> 162
20231119_2020	0.1	67
20231119_2040	0.1	56
20231119_2050	0.1	56
20231119_2100	0.1	29
<u>20231119_2110</u> 20231119_2120	0.1 0.1	<u>35</u> 60
20231119_2120	0.1	118
20231119_2140	0.1	54
20231119_2150	0.1	43
20231119_2200	0.1	44
20231119_2210	0.1	52
20231119_2220 20231119_2230	0.1 0.1	<u>59</u> 55
20231119_2230	0.1	
20231119_2250	0.1	263
20231119_2300	0.1	36
20231119_2310	0.1	24
20231119_2320	0.1	26
20231119_2330 20231119_2340	0.1 0.1	<u>26</u> 292
20231119_2340	0.1	292

	0.5	0
20231119_1140	0.2	325
20231119_1150	0.7	103

Date & Time	Wind Speed (m/s)	Wind Direction (Degree)
(YYYYMMBB_HHMM) 20231120 0000	0.1	52
20231120_0010	0.1	81
20231120_0020	0.1	67
20231120_0030	0.1	53
20231120_0040	0.1	57
<u>20231120_0050</u> 20231120_0100	0.1 0.1	<u>165</u> 65
20231120_0100	0.1	92
20231120_0110	0.1	80
20231120_0130	0.1	60
20231120_0140	0.1	73
20231120_0150	0.1	51
<u>20231120_0200</u> 20231120_0210	0.1 0.1	<u>15</u> 36
20231120_0210	0.1	18
20231120 0230	0.1	47
20231120_0240	0.1	152
20231120_0250	0.1	192
20231120_0300	0.1	55
<u>20231120_0310</u> 20231120_0320	0.1	53
20231120_0320	0.1 0.1	<u>188</u> 103
20231120_0340	0.1	102
20231120_0350	0.1	74
20231120_0400	0.1	61
20231120_0410	0.1	56
20231120_0420	0.1	135
20231120_0430 20231120_0440	0.1 0.1	<u>92</u> 67
20231120_0440	0.1	89
20231120_0500	0.1	114
20231120_0510	0.1	57
20231120_0520	0.1	164
20231120_0530	0.1	183
<u>20231120_0540</u> 20231120_0550	0.1 0.1	103 46
20231120_0550	0.1	70
20231120_0610	0.1	75
20231120_0620	0.1	66
20231120_0630	0.1	57
20231120_0640	0.1	29
20231120_0650 20231120_0700	0.1 0.1	<u>45</u> 68
20231120_0700	0.1	94
20231120_0720	0.1	96
20231120_0730	0.1	141
20231120_0740	0.1	140
20231120_0750	0.1	219
20231120_0800 20231120_0810	0.1 0.1	<u>116</u> 89
20231120_0810	0.1	129
20231120_0830	0.1	137
20231120_0840	0.1	140
20231120_0850	0.1	159
20231120_0900	0.1	129
20231120_0910 20231120_0920	0.1 0.1	146 183
20231120_0920	0.1	205
20231120_0940	0.2	147
20231120_0950	0.1	213
20231120_1000	0.1	153
20231120_1010	0.1	140
20231120_1020 20231120_1030	0.1 1.1	<u>173</u> 145
20231120_1030	2.7	145
20231120_1040	2.2	115
20231120_1100	0.9	96
20231120_1110	0.9	101
20231120_1120	0.2	112
20231120_1130	0.9	158

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231120 1200	0.3	224
20231120_1210	0.1	353
20231120_1220	1.1	150
<u>20231120_1230</u> 20231120_1240	0.6 2.9	<u>29</u> 164
<u>20231120_1240</u> 20231120_1250	1.4	62
20231120_1230	0.1	37
20231120_1310	2	117
20231120_1320	0.1	278
20231120_1330	0.1	340
<u>20231120_1340</u> 20231120_1350	0.1 3.1	<u>209</u> 117
20231120_1330	1.7	135
20231120_1410	0.5	22
20231120_1420	2.6	139
20231120_1430	0.1	286
<u>20231120_1440</u> 20231120_1450	1.1 0.1	<u>158</u> 207
20231120_1430	0.1	124
20231120_1510	0.4	130
20231120_1520	0.7	58
20231120_1530	1.6	88
20231120_1540	0.1	106
<u>20231120_1550</u> 20231120_1600	0.3	<u> </u>
20231120_1000	1.2	109
20231120_1620	0.1	168
20231120_1630	1.4	290
20231120_1640	0.1	80
<u>20231120_1650</u> 20231120_1700	1.5 0.3	<u>183</u> 299
20231120_1710	0.1	173
20231120_1710	0.1	15
20231120_1730	0.1	311
20231120_1740	0.1	119
20231120_1750	0.1	72
<u>20231120_1800</u> 20231120_1810	0.1 0.1	110 168
20231120_1810	0.1	108
20231120_1830	0.1	85
20231120_1840	0.1	42
20231120_1850	0.1	0
20231120_1900	0.1	28
<u>20231120_1910</u> 20231120_1920	0.1 0.1	<u>34</u> 56
20231120_1920	0.1	35
20231120_1940	0.1	21
20231120_1950	0.1	117
20231120_2000	0.1	51
<u>20231120_2010</u> 20231120_2020	0.1 0.1	40 10
20231120_2020	0.1	342
20231120_2040	0.1	70
20231120_2050	0.1	67
20231120_2100	0.1	75
20231120_2110	0.1	53
<u>20231120_2120</u> 20231120_2130	0.1 0.1	213 70
20231120_2130	0.1	70
20231120_2150	0.1	355
20231120_2200	0.1	50
20231120_2210	0.1	79
20231120_2220	0.1	67
20231120_2230 20231120_2240	0.1 0.1	<u>39</u> 68
20231120_2240	0.1	88
20231120_2200	0.1	25
20231120_2310	0.1	63
20231120_2320	0.1	76
20231120_2330	0.1	75
<u>20231120_2340</u> 20231120_2350	0.1 0.1	76 49

20231120_1130	0.7	150
20231120_1140	1.8	46
20231120_1150	0.1	84

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231121 0000	0.1	62
20231121_0010	0.1	56
20231121_0020	0.1	142
20231121_0030	0.1	317
20231121_0040	0.1	33
20231121_0050	0.1	43
20231121_0100	0.1	50
<u>20231121_0110</u> 20231121_0120	0.1	<u>82</u> 128
20231121_0120	0.1 0.1	98
20231121_0130	0.1	93
20231121_0150	0.1	146
20231121_0200	0.1	37
20231121_0210	0.1	32
20231121_0220	0.1	105
20231121_0230	0.1	107
20231121_0240	0.1	52
<u>20231121_0250</u> 20231121_0300	0.1 0.1	<u>330</u> 197
20231121_0300	0.1	46
20231121_0320	0.1	63
20231121_0320	0.1	32
20231121_0340	0.1	190
20231121_0350	0.1	73
20231121_0400	0.1	3
20231121_0410	0.1	157
<u>20231121_0420</u> 20231121_0430	0.1 0.1	215 88
20231121_0430	0.1	217
20231121_0440	0.1	239
20231121_0130	0.1	270
20231121 0510	0.1	274
20231121_0520	0.1	97
20231121_0530	0.1	2
20231121_0540	0.1	241
20231121_0550	0.1	208
20231121_0600	0.1 0.1	31
<u>20231121_0610</u> 20231121_0620	0.1	<u>155</u> 27
20231121_0630	0.1	64
20231121 0640	0.1	68
20231121_0650	0.1	303
20231121_0700	0.1	173
20231121_0710	0.1	21
20231121_0720	0.1	84
20231121_0730 20231121_0740	0.1 0.1	349 68
<u>20231121_0740</u> 20231121_0750	0.1	<u> </u>
20231121_0730	0.1	37
20231121_0810	0.1	159
20231121_0820	0.1	84
20231121_0830	0.1	119
20231121_0840	0.1	97
20231121_0850	0.1	122
20231121_0900 20231121_0910	0.1	<u>124</u> 171
20231121_0910	0.1	56
20231121_0920	0.2	128
20231121_0940	0.2	38
20231121_0950	0.2	311
20231121_1000	0.1	337
20231121_1010	0.5	336
20231121_1020	0.1	116
20231121_1030	0.2	83
20231121_1040	0.1 0.1	<u>349</u> 28
20221121 1050		40
20231121_1050		
20231121_1100	0.1	101

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231121_1200	0.1	8
20231121_1210	1.5	140
20231121_1220	1.2	289
20231121_1230	0.7	336
20231121_1240	0.3	346
20231121_1250	1.7	46
20231121_1300	0.5	73
20231121_1310	0.1	248
20231121_1320	0.5	24
20231121_1330	0.1	75
20231121_1340	0.1	<u> </u>
<u>20231121_1350</u> 20231121_1400	0.4 1.9	95
20231121_1400	0.4	122
20231121_1410	5.6	168
20231121_1420	0.1	17
20231121_1440	1.3	145
20231121_1450	0.5	136
20231121_1500	1.4	52
20231121_1510	0.1	322
20231121_1520	0.3	157
20231121_1530	1	18
20231121_1540	0.2	313
20231121_1550	0.5	200
20231121 1600	0.4	314
20231121_1610	0.1	342
20231121_1620	1.5	338
20231121_1630	0.1	188
20231121_1640	1.4	316
20231121_1650	0.2	355
20231121_1700	0.1	347
20231121_1710	0.1	353
20231121_1720	0.1	60
20231121_1730	0.1	351
20231121_1740	0.5	322
20231121_1750	0.4	332
20231121_1800	0.1	115
20231121_1810	0.1	183
20231121_1820	0.1	321
20231121_1830	0.1	<u>28</u> 139
<u>20231121_1840</u> 20231121_1850	0.1 0.1	139
20231121_1830	0.1	81
20231121_1900	0.1	75
20231121_1910	0.1	81
20231121_1920	0.1	68
20231121_1930	0.1	60
20231121_1940	0.1	72
20231121_1930	0.1	75
20231121_2000	0.1	115
20231121_2010	0.1	94
20231121_2030	0.1	80
20231121_2040	0.1	173
20231121_2050	0.1	44
20231121_2100	0.1	130
20231121_2110	0.3	223
20231121_2120	0.1	240
20231121_2130	0.1	68
20231121_2140	0.1	160
20231121_2150	0.1	317
20231121_2200	0.1	307
20231121_2210	0.1	316
20231121_2220	0.1	93
20231121_2230	0.1	252
20231121_2240	0.1	208
20231121_2250	0.1	141
20231121_2300	0.1	287
20231121_2310	0.1	277
20231121_2320	0.1	115
20231121_2330	0.1	87
20231121_2340 20231121_2350	0.1	54
00021101 0250	0.1	98

20231121_1130	1.1	101
20231121_1140	0.3	37
20231121_1150	0.5	39

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231122 0000	0.1	84
20231122 0010	0.1	61
20231122_0020	0.1	44
20231122_0030	0.1	4
20231122_0040	0.1	25
<u>20231122_0050</u> 20231122_0100	0.1 0.1	41 81
20231122_0100	0.1	54
20231122_0110	0.1	49
20231122_0130	0.1	61
20231122_0140	0.1	49
20231122_0150	0.1	28
20231122_0200	0.1	165
20231122_0210 20231122_0220	0.1 0.1	<u>102</u> 61
20231122_0220	0.1	32
20231122_0230	0.1	27
20231122_0250	0.1	101
20231122_0300	0.1	312
20231122_0310	0.1	46
20231122_0320	0.1	55
20231122_0330	0.1	40
<u>20231122_0340</u> 20231122_0350	0.1 0.1	<u>266</u> 343
20231122_0330	0.1	39
20231122_0400	0.1	223
20231122 0420	0.1	56
20231122_0430	0.1	47
20231122_0440	0.1	41
20231122_0450	0.1	33
20231122_0500	0.1	191
<u>20231122_0510</u> 20231122_0520	0.1 0.1	352
<u>20231122_0520</u> 20231122_0530	0.1	48 8
20231122_0550	0.1	236
20231122_0550	0.1	326
20231122_0600	0.1	58
20231122_0610	0.1	54
20231122_0620	0.1	11
20231122_0630 20231122_0640	0.1	<u>351</u> 59
20231122_0040	0.1	1
20231122_0000	0.1	237
20231122 0710	0.1	256
20231122_0720	0.1	59
20231122_0730	0.1	49
20231122_0740	0.1	111
20231122_0750 20231122_0800	0.1	<u> </u>
20231122_0800 20231122_0810	0.1 0.1	95
20231122_0810	0.1	214
20231122_0820	0.1	86
20231122_0840	0.1	120
20231122_0850	0.1	128
20231122_0900	0.1	187
20231122_0910	0.6	109
20231122_0920 20231122_0930	0.1 0.5	<u>257</u> 317
20231122_0930	0.2	39
20231122_0940	0.2	28
20231122_1000	0.2	332
20231122_1010	0.7	331
20231122_1020	0.1	56
20231122_1030	0.1	2
20231122_1040	0.2	300
<u>20231122_1050</u> 20231122_1100	0.1 0.1	315
		295
((()))	$() \Delta$	/**
<u>20231122_1110</u> 20231122_1120	0.4 0.3	<u>288</u> 317

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231122_1200	0.1	184
20231122_1210	0.3	50
20231122_1220	0.6	69
20231122_1230	0.1	20
20231122_1240	0.3	306
<u>20231122_1250</u> 20231122_1300	1.5 0.1	147 20
20231122_1300	0.1	101
20231122_1310	0.3	101
20231122_1320	0.2	124
20231122_1340	0.1	194
20231122_1350	0.1	28
20231122_1400	0.6	57
20231122_1410	0.1	205
20231122_1420	0.5	86
20231122_1430	1.2	181
<u>20231122_1440</u> 20231122_1450	0.1 0.2	<u>268</u> 130
20231122_1430	0.2	56
20231122_1500	0.1	50
20231122_1510	0.1	84
20231122_1520	1.6	123
20231122_1540	0.1	55
20231122_1550	0.1	87
20231122_1600	1.2	108
20231122_1610	0.1	115
20231122_1620	2.6	97
20231122_1630	0.9	65
20231122_1640	0.1	63
20231122_1650	0.1	144
<u>20231122_1700</u> 20231122_1710	0.1	<u>33</u> 54
<u>20231122_1710</u> 20231122_1720	0.1	30
20231122_1720	0.1	95
20231122_1730	0.1	71
20231122_1750	0.1	348
20231122_1800	0.1	336
20231122_1810	0.1	354
20231122_1820	0.1	62
20231122_1830	0.1	44
20231122_1840	0.1	10
20231122_1850	0.1	7
20231122_1900	0.1	348
20231122_1910	0.1	17
<u>20231122_1920</u> 20231122_1930	0.1 0.1	<u>15</u> 69
20231122_1930	0.1	35
20231122_1940	0.1	63
20231122_1930	0.1	55
20231122_2010	0.1	21
20231122_2020	0.1	55
20231122_2030	0.1	46
20231122_2040	0.1	21
20231122_2050	0.1	51
20231122_2100	0.1	19
20231122_2110	0.1	348
<u>20231122_2120</u> 20231122_2130	0.1	37
20231122_2130	0.1 0.1	348 39
20231122_2140	0.1	<u> </u>
20231122_2200	0.1	336
20231122_2200	0.1	84
20231122_2220	0.1	142
20231122_2230	0.1	106
20231122_2240	0.1	82
20231122_2250	0.1	85
20231122_2300	0.1	39
20231122_2310	0.1	30
20231122_2320	0.1	67
20231122_2330	0.1	344
20231122_2340	0.1	63
20231122_2350	0.1	66

	0.1	271
20231122_1140	0.3	329
20231122_1150	0.1	156

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231123 0000	0.1	66
20231123_0010	0.1	79
20231123_0020	0.1	67
20231123_0030	0.1	59
20231123_0040 20231123_0050	0.1 0.1	<u>53</u> 29
20231123_0030	0.1	9
20231123_0100	0.1	49
20231123_0120	0.1	139
20231123_0130	0.1	42
20231123_0140	0.1	3
20231123_0150 20231123_0200	0.1 0.1	<u>277</u> 155
20231123_0200	0.1	76
20231123_0220	0.1	57
20231123_0230	0.1	149
20231123_0240	0.1	57
20231123_0250	0.1	60
<u>20231123_0300</u> 20231123_0310	0.1 0.1	<u> </u>
20231123_0310	0.1	343
20231123_0330	0.1	7
20231123_0340	0.1	97
20231123_0350	0.1	116
20231123_0400	0.1	35
<u>20231123_0410</u> 20231123_0420	0.1 0.1	76 47
20231123_0420	0.1	48
20231123_0440	0.1	34
20231123_0450	0.1	25
20231123_0500	0.1	40
20231123_0510	0.1	41
<u>20231123_0520</u> 20231123_0530	0.1	<u> </u>
20231123_0540	0.1	1
20231123_0550	0.1	252
20231123_0600	0.1	252
20231123_0610	0.1	23
20231123_0620	0.1 0.1	<u>24</u> 25
20231123_0630 20231123_0640	0.1	25
20231123_0650	0.1	52
20231123_0700	0.1	52
20231123_0710	0.1	52
20231123_0720	0.1	52
20231123_0730 20231123_0740	0.1 0.1	<u>184</u> 179
20231123_0750	0.1	179
20231123_0800	0.1	179
20231123_0810	0.1	160
20231123_0820	0.1	118
20231123_0830 20231123_0840	0.1	183
20231123_0840	0.1 0.1	<u>156</u> 152
20231123_0830	0.1	155
20231123_0910	0.1	137
20231123_0920	0.1	126
20231123_0930	0.1	142
20231123_0940 20231123_0950	0.1 0.1	<u>145</u> 209
20231123_0930	0.1	137
20231123_1010	0.1	169
20231123_1020	0.1	115
20231123_1030	0.5	217
20231123_1040	1.2	129
20231123_1050 20231123_1100	1.7	244
<u>20231123_1100</u> 20231123_1110	0.2 0.1	<u>168</u> 202
20231123_1110	1.5	182
20231123_1120	0.1	181

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231123_1200	0.1	169
20231123_1210	0.9	131
20231123_1220	0.1	202
20231123_1230	0.2	169
20231123_1240	0.1	343
<u>20231123_1250</u> 20231123_1300	0.1	170
<u>20231123_1300</u> 20231123_1310	2.4 0.2	<u>257</u> 260
20231123_1310	1.4	287
20231123_1320	0.1	240
20231123_1340	0.1	152
20231123 1350	0.1	74
20231123_1400	0.9	155
20231123_1410	0.1	329
20231123_1420	0.7	288
20231123_1430	0.1	67
20231123_1440	0.9	198
20231123_1450	0.1	32
<u>20231123_1500</u> 20231123_1510	<u>1.4</u> 0.1	<u>186</u> 233
20231123_1510	0.1	162
20231123_1520	0.1	53
20231123_1540	0.4	10
20231123_1550	0.9	124
20231123_1600	0.1	24
20231123_1610	0.4	138
20231123_1620	0.1	62
20231123_1630	0.1	339
20231123_1640	0.1	119
20231123_1650	0.1	51
20231123_1700	0.1 0.1	70 47
<u>20231123_1710</u> 20231123_1720	0.1	18
20231123_1720	0.1	31
20231123_1740	0.1	17
20231123 1750	0.1	348
20231123_1800	0.1	77
20231123_1810	0.1	40
20231123_1820	0.1	48
20231123_1830	0.1	43
20231123_1840	0.1	57
<u>20231123_1850</u> 20231123_1900	0.1	21
20231123_1900 20231123_1910	0.1 0.1	<u>46</u> 45
20231123_1910	0.1	67
20231123_1920	0.1	23
20231123_1940	0.1	342
20231123_1950	0.1	354
20231123_2000	0.2	336
20231123_2010	0.1	332
20231123_2020	0.1	341
20231123_2030	0.1	26
20231123_2040	0.1	181
20231123_2050 20231123_2100	0.1 0.1	<u>61</u> 56
20231123_2100	0.1	68
20231123 2120	0.1	44
20231123_2120	0.1	40
20231123_2140	0.1	48
20231123_2150	0.1	50
20231123_2200	0.1	43
20231123_2210	0.1	46
20231123_2220	0.1	61
20231123_2230	0.1	32
20231123_2240	0.1	51
20231123_2250	0.1	50
<u>20231123_2300</u> 20231123_2310	0.1 0.1	<u>60</u> 68
20231123_2310	0.1	50
20231123_2320	0.1	51
20231123_2340	0.1	40
20231123_2350	0.1	57

2023112011150	0.1	101
20231123_1140	0.1	133
20231123_1150	0.1	254

Date & Time	Wind Speed (m/s)	Wind Direction (Degree)
(YYYYMMBB_HHMM) 20231124 0000	0.1	35
20231124_0000	0.1	50
20231124_0020	0.1	90
20231124_0030	0.1	50
20231124_0040	0.1	53
20231124_0050	0.1	28
<u>20231124_0100</u> 20231124_0110	0.1 0.1	<u>19</u> 45
20231124_0110	0.1	38
20231124_0130	0.1	25
20231124_0140	0.1	306
20231124_0150	0.1	31
20231124_0200	0.1	19
20231124_0210	0.1	26
<u>20231124</u> 0220 20231124 0230	0.1 0.1	<u>9</u> 47
20231124_0230	0.1	71
20231124_0250	0.1	61
20231124 0300	0.1	76
20231124_0310	0.1	66
20231124_0320	0.1	83
20231124_0330	0.1	104
<u>20231124_0340</u> 20231124_0350	0.1	59
<u>20231124_0350</u> 20231124_0400	0.1 0.1	<u>122</u> 185
20231124_0400	0.1	16
20231124 0420	0.1	133
20231124_0430	0.1	148
20231124_0440	0.1	59
20231124_0450	0.1	252
20231124_0500	0.1	171
20231124_0510	0.1	105
<u>20231124_0520</u> 20231124_0530	0.1	<u>25</u> 85
20231124_0540	0.1	49
20231124 0550	0.1	343
20231124_0600	0.1	1
20231124_0610	0.1	1
20231124_0620	0.1	168
20231124_0630 20231124_0640	0.1 0.1	<u>59</u> 19
20231124_0640	0.1	69
20231124_0000	0.1	56
20231124_0710	0.1	48
20231124_0720	0.1	65
20231124_0730	0.1	58
20231124_0740	0.1	60
20231124_0750	0.1	<u>202</u> 73
<u>20231124_0800</u> 20231124_0810	0.1 0.1	147
20231124_0810	0.1	128
20231124_0830	0.8	41
20231124_0840	0.1	145
20231124_0850	0.5	149
20231124_0900	1.1	114
20231124_0910 20231124_0920	0.1 0.1	<u>91</u> 149
20231124_0920	0.1	300
20231124_0930	0.1	344
20231124_0950	0.1	210
20231124_1000	1.7	131
20231124_1010	0.4	237
20231124_1020	0.1	338
20231124_1030	1.4	38
<u>20231124_1040</u> 20231124_1050	0.1 0.7	<u>166</u> 335
20231124_1050	0.7	<u> </u>
20231124_1100	2.2	347
20231124 1120	1.2	281
20231124_1130	3.5	12
00001104 1140	0.1	25

Date & Time (YYYYMMBB_HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231124_1200	1.2	319
20231124_1210	0.1	327
<u>20231124_1220</u> 20231124_1230	0.6 4.2	<u>118</u> 56
20231124_1230	0.1	223
20231124 1250	0.1	309
20231124_1300	1.3	27
20231124_1310	0.1	351
<u>20231124_1320</u> 20231124_1330	1.2	<u> </u>
20231124_1330	1.1	220
20231124_1350	0.1	114
20231124_1400	1.8	1
20231124_1410	1.7	157
20231124_1420	0.4	29
<u>20231124_1430</u> 20231124_1440	1.3 0.9	<u>15</u> 95
20231124_1440	0.9	64
20231124_1500	0.3	58
20231124_1510	0.1	172
20231124_1520	2.3	164
20231124_1530	0.7	81
<u>20231124_1540</u> 20231124_1550	0.7 0.1	<u>43</u> 312
20231124_1550	0.1	92
20231124_1000	0.2	10
20231124_1620	0.1	20
20231124_1630	2.5	78
20231124_1640	0.1	9
<u>20231124_1650</u> 20231124_1700	0.1 1.2	0 120
20231124_1700	0.7	156
20231124_1710	0.3	109
20231124 1730	0.1	19
20231124_1740	0.1	219
20231124_1750	0.6	104
20231124_1800	0.1	78
<u>20231124_1810</u> 20231124_1820	0.1 0.2	<u>132</u> 94
20231124_1820	0.2	192
20231124_1840	0.4	52
20231124_1850	0.5	129
20231124_1900	0.5	106
20231124_1910	0.3	155
<u>20231124_1920</u> 20231124_1930	0.3 1.2	<u>110</u> 60
20231124_1930	0.2	118
20231124_1950	2.7	129
20231124_2000	1.3	77
20231124_2010	1.2	53
<u>20231124_2020</u> 20231124_2030	1.4	<u>167</u> 34
20231124_2030	0.1	<u> </u>
20231124_2040	1.7	98
20231124_2100	0.9	116
20231124_2110	2	41
20231124_2120	0.9	100
<u>20231124_2130</u> 20231124_2140	1.2 0.1	126 13
20231124_2140	3.5	15
20231124_2200	0.4	96
20231124_2210	4.6	49
20231124_2220	1.3	36
20231124_2230	0.3	38
20231124_2240	0.7	152
<u>20231124_2250</u> 20231124_2300	0.3 0.1	<u>114</u> 194
20231124_2310	0.1	54
20231124_2320	1.5	101
20231124_2330	2.5	54
20231124_2340	4.7	50
20231124_2350	4.4	136

20231121_1130	5.5	12
20231124_1140	0.1	35
20231124_1150	1.4	148

Date & Time	Wind Speed (m/s)	Wind Direction (Degree)
(YYYYMMBB_HHMM) 20231125 0000	1.6	97
20231125_0000	0.4	93
20231125_0020	1.3	57
20231125_0030	0.1	126
20231125_0040	0.2	306
20231125_0050	3.1	16
20231125_0100	0.1	96
20231125_0110	0.1	51
20231125_0120	2	122
<u>20231125_0130</u> 20231125_0140	0.4	169
<u>20231125_0140</u> 20231125_0150	0.1 1.4	<u>136</u> 52
20231125_0150	0.4	212
20231125_0200	0.1	334
20231125 0220	1.5	57
20231125_0230	0.1	346
20231125_0240	0.1	35
20231125_0250	0.1	59
20231125_0300	1.4	354
20231125_0310	0.1	209
20231125_0320	0.1	172
20231125_0330	1.3	354
<u>20231125_0340</u> 20231125_0350	0.1 0.1	<u>5</u> 79
20231125_0330	0.1	195
20231125_0410	0.4	145
20231125_0420	0.1	315
20231125 0430	0.6	282
20231125_0440	0.1	132
20231125_0450	0.1	98
20231125_0500	0.1	77
20231125_0510	0.1	86
20231125_0520	0.1	96
<u>20231125_0530</u> 20231125_0540	0.1	123 44
20231125_0540	0.1	202
20231125_0550	0.1	0
20231125_0610	0.1	192
20231125_0620	0.1	235
20231125_0630	0.1	203
20231125_0640	0.1	188
20231125_0650	0.1	164
20231125_0700	0.1	188
20231125_0710	0.1	92
20231125_0720	0.1	86
20231125_0730 20231125_0740	0.1 0.1	338 174
20231125_0740	0.1	223
20231125_0750	0.1	86
20231125_0800	0.1	101
20231125_0820	0.1	72
20231125_0830	0.1	109
20231125_0840	0.2	131
20231125_0850	0.5	177
20231125_0900	0.3	105
20231125_0910	0.1	255
20231125_0920 20231125_0930	0.1 0.1	<u>340</u> 111
20231125_0930	0.1	20
20231125_0940	0.1	313
20231125_000	0.5	22
20231125_1010	1.8	120
20231125_1020	0.1	95
20231125_1030	0.1	190
20231125_1040	0.1	307
20231125_1050	0.1	313
20231125_1100	0.1	6
20231125_1110	0.1	25
20231125_1120	0.1	126
20231125_1130	0.1	27

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231125_1200	0.5	192
20231125_1210	1.1	57
20231125_1220	0.1	5
20231125_1230 20231125_1240	0.2 0.1	<u>205</u> 124
20231125_1240	0.1	124
20231125_1250	0.7	116
20231125_1310	0.6	206
20231125_1320	1.8	101
20231125_1330	0.1	104
<u>20231125_1340</u> 20231125_1350	0.1 0.1	<u>69</u> 315
20231125_1330	2.2	208
20231125_1400	0.1	196
20231125 1420	0.1	36
20231125_1430	1.6	156
20231125_1440	2.5	135
20231125_1450	0.8	33
<u>20231125_1500</u> 20231125_1510	2.1 0.1	<u>98</u> 269
20231125_1510	0.1	269
20231125_1520	0.1	165
20231125_1540	0.1	186
20231125_1550	0.2	96
20231125_1600	0.4	120
<u>20231125_1610</u> 20231125_1620	0.1	<u>65</u> 158
20231125_1620	0.1	259
20231125_1030	0.1	285
20231125 1650	0.1	28
20231125_1700	0.1	9
20231125_1710	0.1	14
20231125_1720	0.1	37
<u>20231125_1730</u> 20231125_1740	0.1	<u>170</u> 319
20231125_1740	0.1	40
20231125_1800	0.3	103
20231125_1810	0.9	84
20231125_1820	0.1	213
20231125_1830	0.2	134
<u>20231125_1840</u> 20231125_1850	0.2 0.2	<u>13</u> 325
20231125_1830	1.4	525
20231125_1910	4.4	64
20231125_1920	0.1	0
20231125_1930	1.7	73
20231125_1940	1.3	43
20231125_1950	0.4	<u>111</u> 294
<u>20231125_2000</u> 20231125_2010	0.1	78
20231125_2010	0.2	47
20231125_2030	1.4	54
20231125_2040	0.1	82
20231125_2050	0.1	69
<u>20231125_2100</u> 20231125_2110	0.7 1.3	<u>125</u> 312
20231125_2110	0.4	108
20231125_2120	2.5	2
20231125_2140	1.2	11
20231125_2150	0.1	79
20231125_2200	1	62
20231125_2210	0.2	322
<u>20231125_2220</u> 20231125_2230	0.1 1.5	109
20231125_2240	0.1	76
20231125_2250	0.1	84
20231125_2300	0.3	47
20231125_2310	0.1	60
20231125_2320	0.1	47
20231125_2330 20231125_2340	<u>1.2</u> 0.5	<u>153</u> 105
	0.0	105

20231125_1150	0.1	21
20231125_1140	0.6	89
20231125_1150	0.1	209

Date & Time	Wind Speed (m/s)	Wind Direction (Degree)
(YYYYMMBB_HHMM) 20231126 0000	0.5	150
20231126_0000	0.2	88
20231126_0020	0.1	342
20231126_0030	0.1	352
20231126_0040	0.2	270
<u>20231126_0050</u> 20231126_0100	0.1 0.1	<u>27</u> 78
20231126_0100	0.1	324
20231126_0110	0.3	1
20231126_0130	0.1	130
20231126_0140	0.1	97
20231126_0150	0.1	39
20231126_0200	3.5	37
20231126_0210 20231126_0220	0.2 0.1	310 133
20231126_0220	0.1	62
20231126_0240	0.2	45
20231126_0250	0.1	293
20231126_0300	0.1	350
20231126_0310	0.1	99
20231126_0320	0.1	293
20231126_0330 20231126_0340	0.1 0.1	<u>188</u> 194
20231126_0340	0.1	79
20231126_0350	0.1	6
20231126_0410	0.1	105
20231126_0420	0.1	210
20231126_0430	0.1	210
20231126_0440	0.1	121
<u>20231126_0450</u> 20231126_0500	0.1 0.1	<u>43</u> 18
20231126_0500	0.1	80
20231126 0520	0.1	99
20231126_0530	0.1	22
20231126_0540	0.1	52
20231126_0550	0.1	55
20231126_0600	0.1 0.1	44
<u>20231126_0610</u> 20231126_0620	0.1	<u>49</u> 39
20231126_0630	0.1	55
20231126_0640	0.1	41
20231126_0650	0.1	36
20231126_0700	0.1	37
20231126_0710	0.1	8
20231126_0720 20231126_0730	0.1 0.1	<u> </u>
20231126_0740	0.1	17
20231126 0750	0.1	67
20231126_0800	0.1	155
20231126_0810	0.1	185
20231126_0820	0.1	110
20231126_0830	0.1	178
20231126_0840 20231126_0850	0.1 0.1	<u>147</u> 147
20231126_0800	0.1	126
20231126_0910	0.1	137
20231126_0920	0.1	159
20231126_0930	0.4	181
20231126_0940	0.2	159
20231126_0950 20231126_1000	0.1	<u>107</u> 192
20231126_1000	0.4 0.1	192
20231126_1010	2.2	163
20231126 1030	0.7	257
20231126_1040	0.1	286
20231126_1050	0.9	109
20231126_1100	0.3	36
20231126_1110	0.6	80
<u>20231126_1120</u> 20231126_1130	0.7	73
20231126_1130	0.6	190

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231126 1200	0.1	68
20231126_1210	0.1	104
20231126_1220	2.3	120
20231126_1230	0.1	166
<u>20231126_1240</u> 20231126_1250	0.4 0.1	218
20231126_1230	0.1	90
20231126_1310	0.1	59
20231126_1320	0.1	98
20231126_1330	2.9	60
<u>20231126_1340</u> 20231126_1350	0.1 3.3	<u>304</u> 75
20231126_1350	0.1	48
20231126_1410	0.2	167
20231126_1420	0.3	69
20231126_1430	0.5	115
<u>20231126_1440</u> 20231126_1450	1.6 0.1	<u>82</u> 42
20231126 1500	0.1	62
20231126_1510	0.1	93
20231126_1520	0.1	329
20231126_1530	0.2	337
<u>20231126_1540</u> 20231126_1550	0.1 0.1	<u>8</u> 309
20231126_1550	0.1	163
20231126_1610	0.1	80
20231126_1620	0.2	109
20231126_1630	0.1 0.1	113
<u>20231126_1640</u> 20231126_1650	0.1	<u>200</u> 78
20231126_1030	0.1	39
20231126_1710	0.1	79
20231126_1720	0.1	55
<u>20231126_1730</u> 20231126_1740	0.1 0.1	<u>50</u> 340
20231126_1740	0.1	325
20231126_1750	0.1	326
20231126_1810	0.1	336
20231126_1820	0.1	16
<u>20231126_1830</u> 20231126_1840	0.1 0.1	<u>319</u> 5
20231126_1850	0.1	27
20231126_1000	0.1	350
20231126_1910	0.1	324
20231126_1920	0.1	288
<u>20231126_1930</u> 20231126_1940	0.1 0.1	<u>26</u> 56
20231126_1940	0.1	45
20231126_2000	0.1	66
20231126_2010	0.1	353
20231126_2020	0.1	72
20231126_2030 20231126_2040	0.1 0.1	<u>51</u> 52
20231126 2050	0.1	52
20231126_2100	0.1	252
20231126_2110	0.1	43
20231126_2120	0.1	28
<u>20231126_2130</u> 20231126_2140	0.1 0.1	<u>262</u> 55
20231126_2150	0.1	37
20231126_2200	0.1	42
20231126_2210	0.1	82
20231126_2220	0.1	47
20231126_2230 20231126_2240	0.1 0.1	<u>65</u> 53
20231126_2240	0.1	52
20231126_2300	0.1	18
20231126_2310	0.1	49
20231126_2320	0.1	16
20231126_2330 20231126_2340	0.1 0.1	<u> </u>
20231126_2340	0.1	101

20231120_1150	0.0	170
20231126_1140	1.4	158
20231126_1150	0.4	98

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231127 0000	0.1	58
20231127_0010	0.1	34
20231127_0020	0.1	68
20231127_0030	0.1	25
20231127_0040	0.1	25
<u>20231127_0050</u> 20231127_0100	0.1	<u>68</u> 75
<u>20231127_0100</u> 20231127_0110	0.1 0.1	354
20231127_0110	0.1	53
20231127_0130	0.1	72
20231127_0140	0.1	57
20231127_0150	0.1	59
20231127_0200	0.1	45
20231127_0210 20231127_0220	0.1 0.1	<u>61</u> 50
20231127_0220	0.1	43
20231127_0240	0.1	354
20231127_0250	0.1	279
20231127_0300	0.1	62
20231127_0310	0.1	61
20231127_0320	0.1	66
20231127_0330 20231127_0340	0.1 0.1	<u>61</u> 64
20231127_0340	0.1	2
20231127_0400	0.1	25
20231127_0410	0.1	45
20231127_0420	0.1	48
20231127_0430	0.1	335
20231127_0440	0.1	20
<u>20231127_0450</u> 20231127_0500	0.1 0.1	<u>43</u> 51
20231127_0500	0.1	52
20231127 0520	0.1	88
20231127_0530	0.1	17
20231127_0540	0.1	19
20231127_0550	0.1	68
20231127_0600	0.1	165
<u>20231127_0610</u> 20231127_0620	0.1 0.1	<u>123</u> 79
20231127_0630	0.1	34
20231127_0640	0.1	64
20231127_0650	0.1	31
20231127_0700	0.1	120
20231127_0710	0.1	156
20231127_0720 20231127_0730	0.1 0.1	<u>115</u> 75
20231127_0730	0.1	75
20231127_0740	0.1	148
20231127_0800	0.1	63
20231127_0810	0.1	101
20231127_0820	0.1	300
20231127_0830	0.1	166
<u>20231127_0840</u> 20231127_0850	0.1 0.1	<u>126</u> 178
20231127_0830	0.1	145
20231127_0900	0.2	126
20231127_0920	0.2	164
20231127_0930	0.1	161
20231127_0940	0.1	108
20231127_0950	0.1	161
20231127_1000 20231127_1010	0.7 1.7	<u>144</u> 173
20231127_1010	0.5	173
20231127_1020	0.2	112
20231127_1040	0.1	158
20231127_1050	0.1	10
20231127_1100	0.5	160
20231127_1110	0.1	3
20231127_1120	0.1	251
20231127_1130	0.1	249

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231127 1200	0.1	128
20231127_1210	0.1	132
20231127_1220	2.6	35
20231127_1230	0.2	8
<u>20231127_1240</u> 20231127_1250	0.1 0.2	<u>117</u> 121
20231127_1230	0.2	115
20231127_1310	0.3	143
20231127_1320	0.1	66
20231127_1330	2	47
<u>20231127_1340</u> 20231127_1350	0.7 0.1	33
<u>20231127_1350</u> 20231127_1400	0.1	<u>303</u> 78
20231127_1410	0.2	91
20231127_1420	0.1	172
20231127_1430	0.4	15
<u>20231127_1440</u> 20231127_1450	0.1 0.1	30
<u>20231127_1450</u> 20231127_1500	0.1	<u>108</u> 65
20231127_1510	0.0	264
20231127_1520	2.1	50
20231127_1530	0.1	7
20231127_1540	2.4	67
<u>20231127_1550</u> 20231127_1600	0.7 0.5	<u>84</u> 39
20231127_1610	0.1	348
20231127_1620	0.1	313
20231127_1630	0.1	294
20231127_1640	0.1	355
<u>20231127_1650</u> 20231127_1700	0.1 0.1	<u>10</u> 106
20231127_1700	0.1	31
20231127_1720	0.1	82
20231127_1730	0.1	2
20231127_1740	0.1	14
<u>20231127_1750</u> 20231127_1800	0.1 0.1	0 352
20231127_1810	0.1	49
20231127 1820	0.1	4
20231127_1830	0.1	346
20231127_1840	0.1	353
20231127_1850 20231127_1900	0.1 0.1	<u>24</u> 55
20231127_1900	0.1	347
20231127_1920	0.1	144
20231127_1930	0.1	72
20231127_1940	0.1	48
<u>20231127_1950</u> 20231127_2000	0.1 0.1	<u>56</u> 26
20231127_2000	0.1	65
20231127_2020	0.1	64
20231127_2030	0.1	97
20231127_2040	0.1	284
<u>20231127_2050</u> 20231127_2100	0.1 0.1	72 238
20231127_2100	0.1	171
20231127_2120	0.1	71
20231127_2130	0.1	167
20231127_2140	0.1	109
20231127_2150	0.1	89
<u>20231127_2200</u> 20231127_2210	0.1 0.1	<u>12</u> 36
20231127_2220	0.1	168
20231127_2230	0.1	234
20231127_2240	0.1	343
20231127_2250	0.1	271
20231127_2300	0.1	145
<u>20231127_2310</u> 20231127_2320	0.1	<u>72</u> 54
20231127_2330	0.1	103
20231127_2340	0.1	61
20231127 2350	0.1	42

1150	0.1	219
20231127_1140	0.5	186
20231127_1150	0.1	37

Date & Time	Wind Speed (m/s)	Wind Direction (Degree)
(YYYYMMBB_HHMM) 20231128 0000	0.1	86
20231128_0010	0.1	43
20231128_0020	0.1	35
20231128_0030	0.1	53
20231128_0040	0.1	36
20231128_0050	0.1	34
<u>20231128_0100</u> 20231128_0110	0.1 0.1	<u>47</u> 55
20231128_0110	0.1	38
20231128_0120	0.1	39
20231128_0140	0.1	11
20231128_0150	0.1	45
20231128_0200	0.1	50
20231128_0210	0.1	34
20231128_0220 20231128_0230	0.1 0.1	<u>46</u> 50
20231128_0250	0.1	79
20231128_0250	0.1	57
20231128_0300	0.1	39
20231128_0310	0.1	51
20231128_0320	0.1	41
20231128_0330	0.1	51
<u>20231128_0340</u> 20231128_0350	0.1 0.1	<u>43</u> 51
20231128_0350	0.1	44
20231128_0410	0.1	40
20231128_0420	0.1	51
20231128_0430	0.1	39
20231128_0440	0.1	66
20231128_0450	0.1	34
<u>20231128_0500</u> 20231128_0510	0.1 0.1	41 41
20231128_0520	0.1	50
20231128 0530	0.1	51
20231128_0540	0.1	44
20231128_0550	0.1	35
20231128_0600	0.1	54
<u>20231128_0610</u> 20231128_0620	0.1 0.1	<u>50</u> 33
20231128_0630	0.1	41
20231128_0640	0.1	43
20231128_0650	0.1	54
20231128_0700	0.1	35
20231128_0710	0.1	32
20231128_0720	0.1	49
20231128_0730 20231128_0740	0.1 0.1	<u>172</u> 52
20231128_0750	0.1	58
20231128_0800	0.1	119
20231128_0810	0.1	101
20231128_0820	0.1	94
20231128_0830	0.1	123
20231128_0840 20231128_0850	0.1 0.1	<u>105</u> 111
20231128_0850	0.1	111 149
20231128_0910	0.1	101
20231128_0920	0.1	148
20231128_0930	0.6	154
20231128_0940	0.1	83
20231128_0950	0.1	146
20231128_1000 20231128_1010	0.1 0.5	<u>284</u> 225
20231128_1010	0.5	225
20231128_1020	0.1	86
20231128_1040	0.1	192
20231128_1050	0.1	53
20231128_1100	0.1	181
20231128_1110	0.1	269
20231128_1120	0.1	299
20231128_1130	0.1	184

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231128_1200	0.5	284
20231128_1210	0.1	95
20231128_1220	0.9	56
20231128_1230	0.2 1.6	150 101
<u>20231128_1240</u> 20231128_1250	0.1	46
20231128_1200	0.5	211
20231128_1310	0.1	82
20231128_1320	4.2	200
20231128_1330	2.4	110
<u>20231128_1340</u> 20231128_1350	0.2 0.1	<u>29</u> 230
20231128_1350	0.1	64
20231128 1410	0.1	124
20231128_1420	0.6	88
20231128_1430	0.5	56
<u>20231128_1440</u> 20231128_1450	0.1 1.2	<u>134</u> 162
20231128_1430	0.8	162
20231128_1510	1.7	48
20231128_1520	0.1	124
20231128_1530	0.2	14
20231128_1540	0.2	5
<u>20231128_1550</u> 20231128_1600	0.1 0.1	<u>72</u> 176
20231128_1610	0.1	107
20231128_1620	0.1	24
20231128_1630	0.2	310
20231128_1640	0.1	106
<u>20231128_1650</u> 20231128_1700	0.1	<u>42</u> 87
20231128_1700	0.2	
20231128_1710	0.2	170
20231128_1730	0.1	344
20231128_1740	0.1	288
20231128_1750	0.1	23
20231128_1800 20231128_1810	0.1 0.1	<u>311</u> 307
20231128_1810	0.1	173
20231128_1830	0.1	172
20231128_1840	0.1	125
20231128_1850	0.1	152
20231128_1900	0.1	128
<u>20231128_1910</u> 20231128_1920	0.1 0.1	<u> </u>
20231128_1920	0.2	108
20231128_1940	0.1	346
20231128_1950	0.1	106
20231128_2000	1.2	80
20231128_2010 20231128_2020	0.1 0.1	178 49
20231128_2020	0.1	168
20231128_2040	0.1	37
20231128_2050	0.1	110
20231128_2100	0.9	344
20231128_2110	0.1	343
<u>20231128_2120</u> 20231128_2130	0.3 0.1	116 150
20231128_2130	0.1	63
20231128_2150	0.1	126
20231128_2200	0.1	180
20231128_2210	0.1	130
20231128_2220	0.1	182
20231128_2230 20231128_2240	0.1 0.4	<u> </u>
20231128_2240	0.4	84
20231128_2300	2.1	48
20231128_2310	0.8	103
20231128_2320	0.2	118
20231128_2330	0.4	140
20231128_2340	0.5	85

20231120_1150	0.1	101
20231128_1140	2.9	312
20231128_1150	0.6	50

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231129 0000	0.1	61
20231129_0010	0.1	15
20231129_0020	0.2	316
20231129_0030	0.5	143
20231129_0040	0.1	164
20231129_0050	0.1	110
20231129_0100	0.1	138
20231129_0110	0.1	176
20231129_0120	0.2	152
20231129_0130	0.1	322
20231129_0140	0.2	102
20231129_0150	0.8	130
<u>20231129_0200</u> 20231129_0210	0.1 0.3	<u>149</u> 15
20231129_0210	0.5	79
20231129_0220	0.0	341
20231129_0230	0.1	156
20231129_0240	0.4	90
20231129_0250	0.1	322
20231129_0310	0.1	316
20231129_0320	0.1	290
20231129_0330	0.1	105
20231129_0340	0.6	18
20231129_0350	0.1	228
20231129_0400	0.1	256
20231129_0410	0.1	94
20231129_0420	0.1	355
20231129_0430	0.1	289
20231129_0440	0.1	152
20231129_0450	0.1	286
20231129_0500	0.1	183
20231129_0510	0.1	71
20231129_0520 20231129_0530	0.2 0.3	32
20231129_0530	0.5	<u>308</u> 77
20231129_0540	0.1	111
20231129_0550	0.1	103
20231129_0610	0.1	153
20231129_0620	0.1	85
20231129_0630	0.1	84
20231129_0640	0.1	173
20231129_0650	0.1	174
20231129_0700	0.1	196
20231129_0710	0.1	129
20231129_0720	0.1	198
20231129_0730	0.1	352
20231129_0740	0.1	216
20231129_0750	0.1	129
20231129_0800	0.1	121
20231129_0810 20231129_0820	0.1	<u>257</u> 165
20231129_0820	0.1	339
20231129_0830	0.1	84
20231129_0840	1.1	78
20231129_0800	0.6	70
20231129 0910	0.1	47
20231129_0920	0.1	109
20231129_0930	0.6	88
20231129_0940	0.1	236
20231129_0950	0.1	33
20231129_1000	0.1	55
20231129_1010	0.1	324
20231129_1020	0.1	163
20231129_1030	0.1	56
20231129_1040	0.1	7
20231129_1050	0.1	295
<u>20231129_1100</u> 20231129_1110	0.1	<u>204</u> 77
<u>20231129_1110</u> 20231129_1120	0.2 0.1	214
20231129_1120	0.1	341
20231129_1150	0.1	110

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231129_1200	0.8	70
20231129_1210	0.6	59
20231129_1220	0.1	102
20231129_1230	0.1 0.2	37
<u>20231129_1240</u> 20231129_1250	0.2	158 68
20231129_1200	1.3	61
20231129_1310	2.8	142
20231129_1320	0.1	228
20231129_1330	1.4	89
<u>20231129_1340</u> 20231129_1350	0.2	<u>117</u> 355
20231129_1330	0.1	
20231129_1410	0.1	10
20231129_1420	0.1	115
20231129_1430	0.1	165
20231129_1440	0.1	98
<u>20231129_1450</u> 20231129_1500	0.6 0.1	<u>122</u> 178
20231129_1500	0.1	42
20231129 1520	0.1	76
20231129_1530	0.1	8
20231129_1540	0.1	113
20231129_1550	0.1	131
<u>20231129_1600</u> 20231129_1610	1.6 0.1	<u>144</u> 196
20231129_1620	0.2	171
20231129_1630	0.1	46
20231129_1640	0.1	138
20231129_1650	0.1	49
20231129_1700 20231129_1710	0.1 0.1	<u>64</u> 90
20231129_1710	0.1	70
20231129_1720	0.1	121
20231129_1740	0.1	179
20231129_1750	0.1	147
20231129_1800	0.1	96
<u>20231129_1810</u> 20231129_1820	0.1 0.1	4 153
20231129_1820	0.1	178
20231129_1840	0.2	158
20231129_1850	0.1	234
20231129_1900	0.1	113
20231129_1910	0.1 0.2	<u>48</u> 158
<u>20231129_1920</u> 20231129_1930	0.2	138
20231129_1950	0.1	202
20231129_1950	0.1	164
20231129_2000	0.1	145
20231129_2010	0.1	239
<u>20231129_2020</u> 20231129_2030	0.1 0.1	248 118
20231129_2030	0.1	53
20231129_2050	0.1	110
20231129_2100	0.1	38
20231129_2110	0.1	324
20231129_2120	0.1	297
20231129_2130 20231129_2140	0.1 0.1	
20231129_2140	0.1	190
20231129_2200	0.1	269
20231129_2210	0.1	146
20231129_2220	0.1	35
20231129_2230	0.1	88
20231129_2240 20231129_2250	0.1 0.1	<u>92</u> 60
20231129_2230	0.1	169
20231129_2310	0.1	57
20231129_2320	0.1	75
20231129_2330	0.1	52
20231129_2340	0.1	90

2020112/1100	0.1	511
20231129_1140	0.3	113
20231129_1150	2.3	154

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231130 0000	0.1	187
20231130_0010	0.1	253
20231130_0020	0.1	86
20231130_0030	0.1	345
20231130_0040	0.1	104
<u>20231130_0050</u> 20231130_0100	0.1 0.1	<u>216</u> 200
20231130_0100	0.1	54
20231130_0120	0.1	12
20231130_0130	0.1	39
20231130_0140	0.1	14
20231130_0150	0.1	83
20231130_0200 20231130_0210	0.1	212
20231130_0210	0.1 0.1	<u>45</u> 15
20231130_0220	0.1	80
20231130_0240	0.1	75
20231130_0250	0.1	61
20231130_0300	0.1	76
20231130_0310	0.2	59
<u>20231130_0320</u> 20231130_0330	0.1 0.1	0 320
20231130_0330	0.1	34
20231130_0350	0.1	54
20231130_0400	0.1	52
20231130_0410	0.1	124
20231130_0420	0.1	1
20231130_0430	0.1	163
<u>20231130_0440</u> 20231130_0450	0.1 0.1	<u>161</u> 138
20231130_0430	0.1	138
20231130_0510	0.1	56
20231130_0520	0.1	55
20231130_0530	0.1	20
20231130_0540	0.1	30
20231130_0550	0.1	93
20231130_0600 20231130_0610	0.1 0.1	<u>111</u> 50
20231130_0620	0.1	58
20231130_0630	0.1	56
20231130_0640	0.1	42
20231130_0650	0.1	12
20231130_0700	0.1	45
20231130_0710	0.1	338
20231130_0720 20231130_0730	0.1 0.1	<u>84</u> 203
20231130_0740	0.1	203
20231130_0750	0.1	219
20231130_0800	0.1	300
20231130_0810	0.1	214
20231130_0820	0.1	89
20231130_0830 20231130_0840	0.1 0.1	<u>194</u> 247
20231130_0840	0.1	199
20231130_0850	0.1	207
20231130_0910	0.1	178
20231130_0920	0.1	220
20231130_0930	0.1	198
20231130_0940	0.1	150
20231130_0950 20231130_1000	0.1 0.7	156 124
	0.6	187
20231130_1010	0.6	<u>187</u> 152
	0.6 0.2 0.1	187 152 142
20231130_1010 20231130_1020 20231130_1030 20231130_1040	0.2	152 142 189
20231130 1010 20231130 1020 20231130 1030 20231130 1040 20231130 1050	0.2 0.1 0.1 1.1	152 142 189 215
20231130 1010 20231130 1020 20231130 1030 20231130 1040 20231130 1050 20231130 1100	0.2 0.1 0.1 1.1 0.1	152 142 189 215 217
20231130 1010 20231130 1020 20231130 1030 20231130 1040 20231130 1050	0.2 0.1 0.1 1.1	152 142 189 215

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (Degree)
20231130_1200	0.9	185
20231130_1210	0.5	209
20231130_1220	0.1	127
<u>20231130_1230</u> 20231130_1240	0.1 1.2	71 171
20231130_1240	0.1	33
20231130 1300	1.2	135
20231130_1310	0.8	336
20231130_1320	0.1	210
20231130_1330 20231130_1340	0.1 0.1	<u> </u>
20231130_1340	0.1	209
20231130 1400	0.1	175
20231130_1410	0.1	57
20231130_1420	0.1	7
<u>20231130_1430</u> 20231130_1440	<u>1.1</u> 1.5	<u>88</u> 108
20231130_1440	0.1	133
20231130_1430	0.1	96
20231130_1510	0.2	181
20231130_1520	0.2	338
20231130_1530	0.1	90
<u>20231130_1540</u> 20231130_1550	0.9 0.4	<u>111</u> 109
20231130_1550	0.4	353
20231130_1610	0.1	165
20231130_1620	0.1	198
20231130_1630	0.1	84
20231130_1640	0.1	<u>138</u> 117
<u>20231130_1650</u> 20231130_1700	0.1 0.1	350
20231130_1710	0.1	281
20231130_1720	0.1	22
20231130_1730	0.1	83
20231130_1740	0.1	77
<u>20231130_1750</u> 20231130_1800	0.1 0.1	<u>83</u> 180
20231130_1810	0.1	79
20231130 1820	0.2	104
20231130_1830	0.1	300
20231130_1840	0.6	5
<u>20231130_1850</u> 20231130_1900	0.1 0.1	<u>68</u> 107
20231130_1900	0.1	324
20231130_1920	0.1	154
20231130_1930	0.1	291
20231130_1940	0.1	108
20231130_1950	0.1	127
<u>20231130_2000</u> 20231130_2010	0.1 0.1	<u>136</u> 143
20231130_2010	0.1	143
20231130_2030	0.3	139
20231130_2040	1.2	62
20231130_2050	0.1	115
20231130_2100 20231130_2110	0.1 0.1	<u>117</u> 139
20231130_2120	0.1	139
20231130_2120	1.5	332
20231130_2140	0.1	54
20231130_2150	1.5	70
20231130_2200	0.3	111
20231130_2210 20231130_2220	0.1 0.1	<u> </u>
20231130_2220	0.1	35
20231130_2240	0.1	106
20231130_2250	0.2	39
20231130_2300	0.1	350
20231130_2310	0.1	126
20231130_2320	0.1	165
20231130_2330 20231130_2340	0.1 0.1	118 78
20231130_2350	0.1	108

2020112021100	0.1	211
20231130_1140	0.5	2
20231130_1150	0.1	171

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Appendix I Waste Flow Table

		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		
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in Other Projects	Disposed as Public Fill	Imported Fill		Paper / Cardboard Packaging		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	55,549.12	0	0	55,405	0	0	0	0	0	0	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
Total	357,353.57	0.00	0.00	352,153.37	0.00	2,629.37	0.00	0.00	0.00	22.69	0.00	225.67	2,322.47

Waste Flow Table

Note:

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

Appendix J Joint Environmental Site Inspection Records

Environmental Site Inspection Checklist	(Rev.	3))
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Inspection Date:	06 November 2023	Inspected By:	Jason Man		
Time:	14:00	Weather Condition:	Sunny		
Participants:	Kim Tang (ER), Matt Choy (Contractor), Jason Man (ET)				

Α	Permits/Licenses	N/A or Not Observed	Yes	No	Remarks / Photo
A1	Are Environmental Permit, license/ other permit displayed at major site exit and vehicle access?		\boxtimes		
A2	Are Construction Noise Permits/ Environmental license/ other permit available for inspection/posted at site entrance.		\boxtimes		
A3	Is wastewater discharge licence available for inspection?		\boxtimes		
A4	Are trip tickets for chemical waste and construction waste disposal available for inspection?		\boxtimes		
A5	Are relevant licence/permit for disposal of construction waste or excavated materials available for inspection?		\boxtimes		

в	Air Quality	N/A or Not Observed	Yes	No	Remarks / Photo		
B1	Is open burning avoided?		\square				
B2	Are <u>plant and equipment</u> well maintained (i.e. without black smoke from powered plant)?		\boxtimes				
B3	Any remedial action undertaken?	\boxtimes			N/A		
B4	Are the worksites wetted with water regularly?			\boxtimes	Refer to 25 Sep 2023 Observation 1		
B5	Are <u>NRMM labels</u> properly affixed on the PMEs?		\square				
B6	Observed dust source(s)						
	⊠ Wind erosion						
		Vehicle/ E	Equipment	Moveme	nts		
		Loading/	unloading	of materi	als		
		Others: _					
Air Po	ollution Control (Construction Dust) Regulation						
<u>Part I</u>	Control Requirements for Notifiable Works						
Demo	olition of building						
B7	Is the area involved demolition activities sprayed <u>with water</u> or a dust suppression chemical immediately prior to, during and immediately after the activities?	\boxtimes			N/A		
Cons	truction of the superstructure of a building						
B8	Is <u>scaffolding</u> erected around the perimeter of a building under construction?		\boxtimes				

			1		
B9	Are effective <u>dust screens</u> , <u>sheeting</u> or <u>netting</u>				
	provided to enclose the scaffolding from the ground				Refer to 6 Nov 2023
	floor level of the building, or a canopy provided from			\square	Observation 1
	the first floor level up to the highest level of the				
	scaffolding?				
B10	Is the skip for materials transport enclosed by				NYO
	impervious sheeting?	\boxtimes			N/O
Part I	II General Control Requirements		1		
Site b	oundary and entrance				
B11	Are wheel washing facilities with high pressure		1		
	water jet provided at all site exits if practicable?				
B12	Are the <u>areas of washing facilities</u> and the <u>road</u>				
	section between the washing facilities and the	_			
	exit point paved with concrete, bituminous materials				
	or hardcore?				
B13	Are the hoarding \geq 2.4m tall provided at the site				
			\boxtimes		
	boundary near a road, street, service lane or other				
	area accessible to the public?				
Asse	ss road				
B14	Are every main haul road (having a vehicle passing				
	rate of higher than 4 in any 30 minutes) paved with				
	concrete, bituminous materials, hardcore or metal		\boxtimes		
	plates, and kept clear of dusty materials?				
B15	Are every main haul road sprayed with water or a				
	dust suppression chemical?		\square		
B16	Is the portion of any road leading only to construction				
	site (within 30m of a vehicle entrance or exit) kept		\square		
	clear of dusty materials?				
B17	Are appropriate speed limit sign displayed?				
			\square		
B18	Is unpaved main haul road wet by water spraying?			\square	Refer to 25 Sep 2023
					Observation 1
Ceme	ent and dry pulverized fuel ash (PFA)				
B19	Is every stock of more than 20 bags of cement or				
	dry pulverized fuel ash (PFA) covered entirely by				
	impervious sheeting or placed in an area sheltered	\boxtimes			N/O
	on the top and 3 sides?				
B20	Are the activities of loading, unloading, transfer,		1		
	handing or storage of bulk cement or dry PFA	\boxtimes			N/A
	carried out in a totally enclosed system or facility?				
B21	Is any vent or exhaust fitted with an <u>effective fabric</u>				
	filter or equipment air pollution control system?	\boxtimes			N/A
Expo	sed earth		1	1	
B22	Is the exposed earth properly treated by				
	<u>compaction, turfing, hydroseeding, vegetation</u>				
	planting or sealing with latex, vinyl, bitumen,				
			\boxtimes		
	shotcrete or other suitable surface stabilizer				
	within 6 months after last construction activity on the				
	construction site or part of the construction site				
	where the exposed earth lies?				

Environmental Site Inspection Checklist (Rev. 3)

Part I	Part IV Control Requirements for Individual Activities							
Stock	Stockpiling of dusty materials							
B23	 Are the stockpiling of dusty materials (a) covered entirely by <u>impervious sheeting</u> or (b) placed in an <u>area sheltered on the top and the</u> <u>3 sides</u> or (c) <u>sprayed with water</u> or a dust suppression chemical to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the <u>excavation or</u> <u>unloading</u>? 							
B24	Is the stockpile of dusty materials avoid to be extend beyond the pedestrian barriers, fencing or <u>traffic cones</u> ?							
Load	ing, unloading or transfer of dusty materials		•	•				
B25	Are all dusty materials <u>sprayed with water</u> or a dust suppression chemical immediately <u>prior to</u> <u>any loading, unloading or transfer operation</u> so as to maintain the dusty materials wet?							
B26	Are <u>all trucks loaded</u> to a level within the side and tail boards?		\boxtimes					
<u>Use c</u>	of vehicles							
B27	Are every vehicle washed Immediately to remove any dusty materials from its body and wheels before leaving a construction site?							
B28	Are loaded dump trucks covered by impervious sheeting appropriately before leaving the site?		\boxtimes					
B29	Are site vehicle movements confined to designated roads?		\square					
<u>Pneu</u>	matic or power-driven drilling, cutting and polishing	9						
B30	Are <u>surfaces</u> where any <u>pneumatic or power-</u> <u>driven drilling, cutting, polishing or other</u> <u>mechanical breaking operations</u> takes place sprayed with water or a dust suppression chemical continuously? *Unless the process is accompanied by the operation of an effective dust extraction and filtering device.	\boxtimes			N/A			
<u>Debri</u>	s handling							
B31	Are any debris covered entirely by <u>impervious</u> <u>sheeting</u> or stored in a <u>debris collection area</u> sheltered on the top and the 3 sides?	\boxtimes			N/A			
B32	Are every <u>debris chute</u> shall be enclosed by impervious sheeting or similar materials?	\boxtimes			N/A			
B33	Are the watering spray or a dust suppression chemical conducted before <u>debris is dumped</u> into a debris chute?	\boxtimes			N/A			

Exca	vation or earth moving		
B34	Are the working area of any excavation or earth moving operation sprayed with water or a dust suppression chemical immediately before, during and immediately after the operation?	\boxtimes	
<u>Site c</u>	<u>elearance</u>		
B35	Are the working area for the <u>uprooting of trees</u> , <u>shrubs</u> , or <u>vegetation</u> or for the <u>removal of</u> <u>boulders</u> , <u>poles</u> , <u>pillars</u> or <u>temporary</u> or <u>permanent structures</u> sprayed with water or a dust suppression chemical immediately before, during and immediately after the operation?	\boxtimes	
B36	Are <u>all demolished items</u> (including <u>trees</u> , <u>shrubs</u> , <u>vegetation</u> , <u>boulders</u> , <u>poles</u> , <u>pillars</u> , <u>structures</u> , <u>debris</u> , <u>rubbish</u> and <u>other items arising from site</u> <u>clearance</u>) that may dislodge dust particles covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides within a day of demolition?	\boxtimes	

с	Construction Noise	N/A or Not Observed	Yes	No	Remarks / Photo
C1	Is well-maintained plant operated on-site and plant served regularly?		\boxtimes		
C2	Are <u>vehicles</u> and <u>equipment</u> switched off or throttled down while not in use?		\boxtimes		
C3	Is the noise directed away from nearby <u>NSRs</u> ?		\square		
C4	Are the <u>silencers</u> or <u>mufflers</u> properly fitted on construction equipment and maintained regularly?	\boxtimes			N/O
C5	Are mobile and/or noisy plant sited as far away from NSRs as possible and practicable and orientated so that the noise is directed away from nearby NSRs?		\boxtimes		
C6	Are <u>material stockpiles</u> , <u>mobile container officer</u> and <u>other structures</u> utilised to screen noisy activates?		\boxtimes		
C7	Is temporary hoarding installed located on the site boundaries between noisy construction activities and NSRs?		\boxtimes		
C8	Are <u>noise barriers</u> (typically density @14kg/m ²) <u>acoustic mat</u> or <u>full enclosure</u> close to noise plants including air compressor, generators and saw etc. provided to protect NSRs?	\boxtimes			N/O
C9	Is the sequencing operation of construction plants where practicable?		\boxtimes		
C10	Is the hoarding maintained properly?		\boxtimes		
C11	<u>Air compressors</u> (500 kPa or above) and <u>hand</u> <u>held percussive breaker</u> (mass of above 10 kg) with valid noise labels?	\boxtimes			N/O
C12	Are <u>compressor</u> operated with doors closed?		\square		
C13	<u>QPME</u> used with valid noise labels?		\boxtimes		
C14	Major noise source(s)		•	1	
		Traffic			
			tion activiti	es inside	of site
			tion activiti	es outsid	e of site
		Others:			

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(Construction Phase)

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D	Water Quality	N/A or Not Observed	Yes	No	Remarks / Photo
Const	truction Runoff				
D1a	At the start of site establishment, are perimeter <u>cut-off drains</u> constructed to direct off-site water around the site with internal drainage works and erosion and sedimentation control facilities implemented?	\boxtimes			N/O
D1b	Are <u>channels</u> , <u>earth bunds</u> or <u>sandbag barriers</u> provided on site to properly direct stormwater to silt removal facilities?			\boxtimes	Refer to 6 Nov 2023 Observation 2
D2a	Have <u>dikes</u> or <u>embankments</u> for <u>flood protection</u> implemented around the boundaries of earthwork areas?	\boxtimes			N/A
D2b	Have <u>temporary ditches</u> provided to facilitate the runoff discharge into an appropriate watercourse, through a site/ sediment trap?		\boxtimes		
D2c	Are the <u>sediment/ silt traps</u> incorporated in the permanent drainage channels to enhance deposition rate?		\boxtimes		
D3	Are the retention time for silt/s and traps of the silt removal facilities be <u>5 minutes</u> under maximum flow conditions?			\boxtimes	Refer to 18 Sep 2023 Observation 6
D4a	Are <u>surface excavation works</u> minimised during rainy seasons (April to September), as possible?	\boxtimes			N/A
D4b	Are <u>all exposed earth areas</u> completed or vegetated as soon as possible after earthworks completed, or alternatively, <u>within 14 days</u> of the <u>cessation</u> of <u>earthworks</u> where practicable?				N/A
D4c	Are <u>exposed slope surfaces</u> covered by tarpaulin sheets?				Shotcrete in progress. Refer to 6 Nov 2023 Observation 4
D5a	Have the overall slope of the site should be kept a minimum?	\boxtimes			N/A
D5b	Are <u>all trafficked areas</u> and <u>access roads</u> protected by coarse stone ballast?	\boxtimes			N/A
D6a	Are <u>all drainage facilities</u> and <u>erosion</u> and <u>sediment control structures</u> inspected regularly?		\boxtimes		
D6b	Are <u>all drainage facilities</u> and <u>erosion</u> and <u>sediment control structures</u> maintained to ensure proper and efficient operation at all times and particularly following rainstorms?		\boxtimes		
D6c	Is the <u>deposited silt</u> and <u>grit</u> removed regularly and disposed of by spreading evenly over stable?		\boxtimes		
D7a	Have the <u>excavation</u> of <u>trenches</u> in wet periods be dug and backfilled in short sections?		\boxtimes		
D7b	Is rainwater pumped out from <u>trenches</u> discharged into storm drains via silt system?		\boxtimes		
D8	Are <u>open stockpiles</u> of <u>construction materials</u> e.g. aggregates and sand of more than 50m ³ on site covered with tarpaulin or similar fabric during rainstorms?		\boxtimes		

-	Are <u>manholes</u> adequately covered and temporarily					
D9a	sealed so as to prevent silt, construction materials or		\square			
	debris from getting into the drainage?					
D9b	Are the <u>discharges</u> of <u>surface run-off</u> into foul		\boxtimes			
	sewer always prevented?					
D10a	Are particular attention paid to the control of silty		\boxtimes			
Diou	surface runoff during storm event?					
	Are the precautions to be taken at <u>any time</u> of year when rainstorms are likely? (Appendix A2 of ProPECC PN 1/94)					
	 i. <u>Silt removal facilities</u>, <u>channels</u> and <u>manholes</u> should be maintained and the <u>deposited silt</u> and <u>grit</u> should be removed regularly. 					
	ii. <u>Temporarily exposed slope surfaces</u> should be cover by tarpaulin.					
D10b	iii. <u>Temporary access roads</u> should be protected by crushed stone or gravel.					
	iv. <u>Intercepting channels</u> should be provided (e.g. along the crest/edge of excavation) to prevent storm runoff from washing across exposed soil surfaces.					
	v. <u>Trenches</u> should be dug and backfilled in short sections. Measures should be taken to minimize the ingress of rainwater into trenches.					
5.40	Are the actions to be taken when a <u>rainstorm</u> is <u>imminent</u> or <u>forecas</u> t? (Appendix A2 of ProPECC PN 1/94) i. <u>Silt removal facilities</u> , <u>channels</u> and <u>manholes</u> should be checked to ensure that they					
D10c	 can function properly. ii. <u>Open stockpiles</u> of <u>construction materials</u> (e.g. aggregates, sand and fill materials) on site should be covered with tarpaulin or similar fabric. iii. <u>All temporary covers to slopes and</u> <u>stockpiles</u> should be secured. 					
	Are the actions to be taken <u>during</u> or <u>after</u> <u>rainstorms</u> ? (Appendix A2 of ProPECC PN 1/94)					
D10d	i. <u>Silt removal facilities</u> , <u>channels</u> and <u>manholes</u> should be checked and maintained to ensure satisfactory working conditions. Attention should be given to safety when carrying out this work.		\square			
D11a	Are <u>all vehicles</u> and <u>plant</u> cleaned before leaving a construction site?		\boxtimes			
D11b	Is the wheel washing bay provided at every site exit?					
D11c	Are the <u>vehicle wash-water</u> have sand and silt settled out and removed at least on a weekly basis?		\square			
D11d	Is the wheel wash overflow directed to silt removal facilities before being discharged to the storm drain?	\boxtimes		N/O		
D11e	Is the section of <u>construction road between the</u> <u>wheel washing bay and the public road</u> paved with backfill?					
D11f	Is the treated wastewater reused for <u>vehicle</u> washing, dust suppression and general cleaning?		\square			
D12a	Are <u>oil interceptors</u> provided in the site drainage system downstream of any oil/ fuel pollution sources?	\boxtimes		N/A		

D12b	Are the <u>oil interceptors</u> are emptied and cleaned regularly to prevent the release of O&G into the storm water drainage system after accidental spillage?	\boxtimes			N/A			
D12c	Has a <u>bypass</u> provided to prevent flushing during heavy rain?		\boxtimes					
D13	Are the <u>construction solid waste</u> , <u>debris</u> and <u>rubbish</u> on site collected, handled and disposed of properly? (same with waste item)		\square					
D14	Are <u>all fuel tanks</u> and <u>storage areas</u> provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank?			\boxtimes	Refer to 30 Oct 2023 Observation 1			
D15	Is Intercepting bund or barrier along the roadside constructed to prevent pollution risk arising from work area (waste reception area)?							
D16	Are <u>site drainage systems</u> provided over the entire project site with sediment control facilities?		\boxtimes					
D17	Are sedimentation tanks provided to treat the large amount of sediment-laden wastewater generated from wheel washing, site runoff and construction works?		\boxtimes					
D18	Is there any sediment plume observed in nearby watercourses?			\boxtimes				
<u>Sewag</u>	Sewage Effluent from Workforce (On-site sanitary facilities)							
D19a	Are portable chemical toilets and sewage holding tanks provided?		\boxtimes					
D19b	Is the sewage generated from toilets collected by licensed contractor and responsible for disposal and maintenance?		\boxtimes					
D20	Are the notices posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment?	\boxtimes			N/O			
Accide	ental Spillage of Chemical (Service workshop and m	aintenance fac	<u>;ilities)</u>					
D21a	Are the <u>service workshop</u> and <u>maintenance</u> <u>facilities</u> located within a bunded area, and sumps and oil interceptors?	\boxtimes			N/O			
D21b	Are all maintenance of equipment involving activities with potential for leakage and spillage undertaken within the areas?	\boxtimes			N/O			
D21c	Is <u>chemical leakage</u> or <u>spillages</u> contained and cleaned up immediately?	\boxtimes			N/O			
Surfac	ce Water Drainage System							
D22a	Is the <u>temporary surface water drainage system</u> provided to manage runoff?		\boxtimes					
D22b	Does the system consist of <u>channel</u> as constructed around the perimeter of the site area?		\boxtimes					
D22c	Does the system collect surface water from the <u>areas</u> of higher elevations to those of <u>lower elevations</u> and ultimately to the discharge point?							
D22d	Is the <u>erosion</u> minimised?		\boxtimes					
D23a	Does the system include the <u>use of a silt fence</u> around the <u>soil stockpile areas</u> to prevent sediment from entering the system?		\boxtimes					

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D23b	Is the regular <u>cleaning</u> carried out to prevent blockage of the passage of waste flow in silt fence?	\boxtimes	

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E	Waste / Chemical Management	N/A or Not Observed	Yes	No	Remarks / Photo			
Waste Management								
Gener	al Waste							
E1	Is the general waste generated on-site stored in <u>enclosed bins</u> or compaction units separately from the construction and chemical wastes?			\boxtimes	Refer to 6 Nov 2023 Observation 3			
E2a	Is the general waste collected properly by using the <u>waste separation facilities</u> for paper, aluminium cans, plastic bottles etc.?		\boxtimes					
E2b	Does accumulation of waste avoid?		\boxtimes					
E2c	Is waste disposed regularly?		\boxtimes					
E2d	Regular <u>waste collection</u> by approved waste collector in purpose-built vehicles?		\boxtimes					
E3	Burning of refuse on construction site prohibited?		\boxtimes					
<u>C&D I</u>	Materials							
E4a	Are there any <u>contract documents</u> provided to allow and promote the <u>use of recycled aggregates</u> where appropriate?		\boxtimes					
E4b	Are the <u>C&D materials</u> sorted and recycled on-site?		\boxtimes					
E5a	Is the <u>durable formwork</u> or <u>plastic facing</u> for construction works used?		\boxtimes					
E5b	Do the wooden hoardings avoid to be used?		\boxtimes					
E5c	Is metal hoarding used to enhance the possibility of recycling?		\boxtimes					
E6a	Are the concrete and masonry used as general fill ?		\boxtimes					
E6b	Are the steel reinforcement bars used by scrap steel mills?		\boxtimes					
E6c	Is the <u>segregation</u> and <u>storage</u> of C&D wastes undertaken in designated area?		\boxtimes					
E6d	Does the <u>use of reusable steel formwork</u> maximise?		\boxtimes					
E7a	Are the temporary stockpiles maintained regularly?		\boxtimes					
E7b	Is the excavated fill material reused for backfilling and reinstatement?		\boxtimes					
E8a	Are the excavated slope , stockpile material and bund walls covered by tarpaulin?		\boxtimes					
E8b	Are covering trucks or transporting wastes in enclosed containers when transportation of waste?		\boxtimes					
E8c	Are <u>waste storage area</u> properly cleaned and do not cause windblown litter and dust nuisance?		\boxtimes					
E9	Is <u>hydroseeding</u> of the topsoil on the <u>stockpile</u> implemented to improve visual appearance and prevent soil erosion?		\boxtimes					
E10	Is the 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 implemented?		\boxtimes					

E11	Are the training of site personnel for cleanliness, proper waste management procedures including chemical waste handling, and waste reduction, reuse and recycling concept implemented?		\boxtimes		
E12	Are the <u>regular cleaning</u> and <u>maintenance</u> <u>programme</u> for drainage systems, sumps, oil interceptors?		\boxtimes		
E13a	Are wood , steel and other metals separated for re- use and/or recycling?		\boxtimes		
E13b	Do the excavated materials appear contaminated?			\boxtimes	
E13c	If suspected contaminated, appropriate procedures followed?	\boxtimes			N/A
E14	Is the disposal of C&D materials avoided onto any sensitive locations e.g. agricultural lands etc.?		\boxtimes		
E15	Are the public fill and C&D waste segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal?		\boxtimes		
Chemi	cal Waste / Waste Oil				
E16	Are <u>chemicals</u> and <u>waste oil</u> recycled or disposed properly?			\boxtimes	Refer to 3 Oct 2023 Observation 1 Refer to 30 Oct 2023 Observation 1
<u>Chem</u> i	ical Packaging				
E17a	Have the <u>containers</u> a capacity of <u><450 L</u> unless the specification has been approved by EPD?	\boxtimes			N/A
E17b	Are the <u>containers</u> (holding, resistant to corrosion, maintained in a good condition, and securely closed) used for <u>storage of chemical wastes</u> ?			\boxtimes	Refer to 30 Oct 2023 Observation 1
<u>Chemi</u>	ical Labelling				
E18	Is chemical waste or waste oil <u>stored</u> and <u>labelled</u> in <u>English and Chinese</u> properly in designated area? Capacity of Dimensions of Label Container < 50L No less than 90 x 100mm 50 to 450L No less than 120 x 150mm > 450L No less than 180 x 200mm				
<u>Chemi</u>	ical Waste / Fuel Storage Area				
E19a	Are the storage area are clearly labelled and separated (if needed)?	\boxtimes			N/O
E19b	Are the <u>storage area</u> enclosed <u>3 sides by walls</u> / <u>fence of $\geq 2m$ tall</u> and bounded with adequate bund capacity ($\geq 110\%$ of largest container) or do the storage area allow <u>storage of 20% of total volume</u> <u>of waste</u> ?	\boxtimes			N/O
E19c	Do the storage areas have adequate ventilation and be covered to prevent rainfall entering and reduce heat from sunlight?	\boxtimes			N/O
E19d	Are the fuel tanks and chemical storage areas provided with locks and sited on sealed areas?	\boxtimes			N/O

E20	Is chemical waste collected by <u>licensed waste</u> <u>collectors</u> and disposed of at <u>licensed facility</u> eg. Chemical Waste Treatment Centre?	\boxtimes	
<u>Reco</u>	<u>rds</u>		
E21	Is a licensed waste hauler used for <u>waste</u> <u>collection</u> ?	\boxtimes	
E22	Are the records of quantities of wastes generated, recycled and disposed properly kept?	\boxtimes	
E23	For the demolition material / waste, is the <u>number of</u> <u>loads</u> for each day recorded as appropriate?	\boxtimes	

F	Landfill Gas (LFG)	N/A or Not Observed	Yes	No	Remarks / Photo		
Within NENT Landfill Extension							
F1	Are <u>special LFG precautions</u> taken to avoid potential hazards of LFG exposure (ignition, explosion, asphyxiation, toxicity)?	\boxtimes			N/O		
F2	Are prominent safety warning signs erected on- site to alert all personnel and visitors of LFG hazards during excavation works.?		\boxtimes				
F3	Is no smoking or burning permitted on-site?	\boxtimes			N/O		
F4	Are prominent <u>'No smoking'</u> and <u>'No Naked</u> <u>Flames' signs</u> erected on-site?	\boxtimes			N/O		
F5	Is no worker allowed to work alone at any time in excavated trenches or confined areas on-site?		\boxtimes				
F6	Is adequate <u>fire fighting equipment</u> provided on- site?		\boxtimes				
F7	Are <u>construction equipment</u> equipped with vertical exhaust at least 0.6m above ground installed with spark arrestors?		\boxtimes				
F8	Are <u>electrical motors</u> and <u>extension cords</u> explosion-proof and intrinsically safe for use on- site?	\boxtimes			N/O		
F9	Is 'Permit to Work' system implemented?		\boxtimes				
F10	Are <u>welding</u> , <u>flame-cutting</u> or <u>other hot works</u> conducted only under 'Permit to Work' system following clear safety requirements, gas monitoring procedures and presence of qualified persons to supervise the works?		\boxtimes				
F11a	For piping assembly or conduit construction , are all valves and seals closed immediately after installation?	\boxtimes			N/A		
F11b	Are the <u>pipe ends</u> sealed on one side during installation if installation of large diameter pipes (diameter > 600mm) is required?	\boxtimes			N/A		
F11c	Is <u>forced ventilation</u> implemented prior to operation of installed pipeline?	\boxtimes			N/A		
F11d	Is forced ventilation implemented for works inside trenches deeper than 1m?	\boxtimes			N/A		
F12	Is frequency and location of <u>LFG monitoring</u> within excavation area determined prior to commencement of works? *LFG monitoring in excavations should be conducted at < 10mm from exposed ground surface.		\boxtimes				
F13	For excavation works, Is LFG monitoring 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?						

F14	Are <u>LFG monitoring</u> conducted periodically when any cracks on ground level encountered on-site?		
	*Appropriate action should be taken in accordance with the action plan in Table 7.6 of EIA Report.		
F15a	Are LFG precautionary measures involved in		
	excavation and piping works provided in		
	accordance with LFG Guidance Note and included		
	in Safety Plan of construction phase?		
F15b	Are <u>temporary offices</u> or <u>buildings</u> located where	\square	
	free LFG has been proven or raised clear of ground at a separation distance of at least 500mm?		
F16	Is a <u>Safety Officer trained</u> in the use of gas	 <u> </u>	
110	detection equipment and LFG- related hazards		
	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:		
	•CH4: 0-100% and LEL: 0-100%/v		
	•CO ₂ : 0-100% •O ₂ : 0-21%		
F17a	Periodically during groundwork construction, Is the		
I II G	works area 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		
F17b	person. Is routine monitoring carried out in all excavations,		
1 175	manholes, created by temporary storage of building		
	materials on-site?		
F17c	Are all measurements in excavations made with		
	monitoring tube located < 10mm from exposed		
	ground surface?		
F18	For excavations > 1m, are measurements	\square	
	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.		
F19	For excavations 300mm to 1m, are measurements		
	conducted?		
	• Directly after excavation has been completed;		
	and Durindia all addition and the second		
F20	 Periodic all whilst excavation remains open. For excavations < 300mm, are monitoring omitted 	<u> </u>	
F20	at the discretion of Safety Officer or appropriately	\boxtimes	
	qualified person?		

G	Landscape and Visual Impacts	N/A or Not Observed	Yes	No	Remarks / Photo
G1	Is the work site confined within site boundaries?		\boxtimes		
G2	Is damage to surrounding areas avoided ?		\boxtimes		
G3	Are the protective fencing erected along or beyond the perimeter of the <u>tree protection zone</u> of each individual tree?		\boxtimes		
Advar	nced screening tree planting				
G4a	Is early planting using fast growing plants and tall shrubs at <u>strategic locations</u> within site implemented?				
G4b	Are the roadside planter and shrub planting implemented in front of Cheung Sha Temple ?		\boxtimes		
Bound	dary Green Belt planting				
G5	Are the <u>fast growing</u> and <u>fire-resistant plant</u> <u>species</u> planted around the site perimeter?		\boxtimes		
Temp	orary landscape treatment as green surface cover				
G6	Are grass hydroseeding or synthetic covering material of green colour used as a temporary slope <u>cover</u> ?		\boxtimes		
Existi	ng tree preservation				
G7	Are <u>existing</u> and <u>affected tree</u> which identified as ecological significant preserved whenever possible?		\boxtimes		

н	Ecology	N/A or Not Observed	Yes	No	Remarks / Photo
H1	Is transplantation of the important plant species implemented? Is post-transplantation maintained and monitored regularly?		\boxtimes		

I	Environmental Complaint	N/A or Not Observed	Yes	No	Remarks / Photo
11	Environmental Complaint received during this week?			\mathbb{X}	
J	General Housekeeping / Others	N/A or Not Observed	Yes	No	Remarks / Photo
J1	Are the defined boundaries of working areas identified to prevent loss of vegetation		\boxtimes		
J2	Are the portable toilets maintained in a state, which will not deter the workers from utilizing these portable toilets?		\boxtimes		

Follow up action for previous Site Inspection:

1. 25 September 2023 Observation 1 – The water spraying by the water truck was arranged from the contractor at the assess road of SBA.

Observation(s):

- 1. The outside surrounding of the scaffolding without dust screen, sheeting or netting is found at the Portion D.
- 2. The muddy water which is caused from the water spraying by the water sprinkler at the Portion A is found. The deposited silt and grit are found under the tower crane at the Portion A.
- 3. The food waste is found at the waste skip of SBA. The general waste should be stored in the enclosed bins.
- 4. The slope surface at the Portion E4 should be covered by impervious sheet properly.

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

- 1. The contractor has been advised that the effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy provided from the first floor level up to the highest level of the scaffolding.
- 2. The contractor has been recommended that the sandbag barriers or bunds should be provided and established along the water safety barriers at the Portion A. The muddy water should be collected from the proper channel, final to the silt removal facility for treatment. The deposited silt and grit under the tower crane at the Portion A should be removed.
- The contractor has been advised that the additional enclosed bin should be increased at the SBA. The "type of waste" label should be labelled at the surrounding of the enclosed bins or waste skip for easily identify for on-site workers.
- 4. The contractor has been advised to cover the exposed slope surface by impervious sheet properly.

Report No. 0075-20231106

(Construction Phase)

Environmental Site Inspection Checklist (Rev. 3)

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:	\mathbb{P}	1	1.	Ho.
Name:	Jason Man	1	Matt Choy/Kristy Wong	Sylvia Ho
Date:	6 November 2023	In I post	6 November 2023	6 November 2023

A harden at the design (without 1940) - the safe durance of the

PART I Follow-up status of the previous site inspection

Observation and Recommendation	Follow-up status
18 September 2023 Observation 6 Image: September 2023 Observation 6	Waiting for contractor input
<image/> <section-header><image/><image/><image/></section-header>	SBA Service and the service of the s

Observation and Recommendation	Follow-up status
3 October 2023 Observation 1	
The stagnant water in drip tray should be cleared of in Portion E4.	Waiting for Contractor's Input

Observation and Recommendation	Follow-up status
<u>30 October 2023 Observation 1</u>	
	Waiting for Contractor Input
The storage area of chemical containers at Portion E3-1 is without drip tray and other properly setup etc. to prevent the chemicals rainfall entering and reduce heat from sunlight and avoid the risk of land contamination.	

PART II Observation and recommendation identified during the environmental site inspection

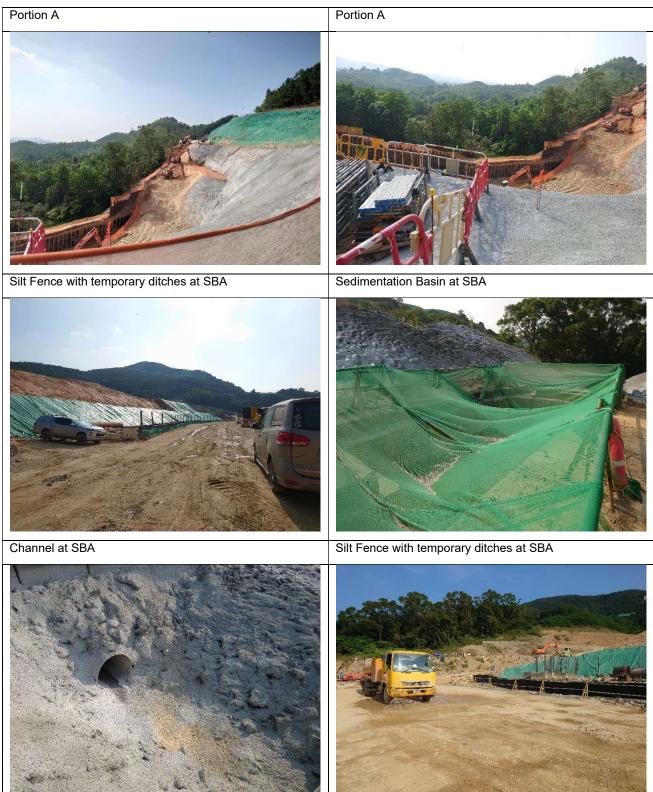
Observation and Recommendation	Follow-up status
6 November 2023 Observation 1	Waiting for Contractor Input
The outside surrounding of the scaffolding without dust screen, sheeting or netting is found at the Portion D. The contractor has been advised that the effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy provided from the first floor level up to the highest level of the scaffolding.	

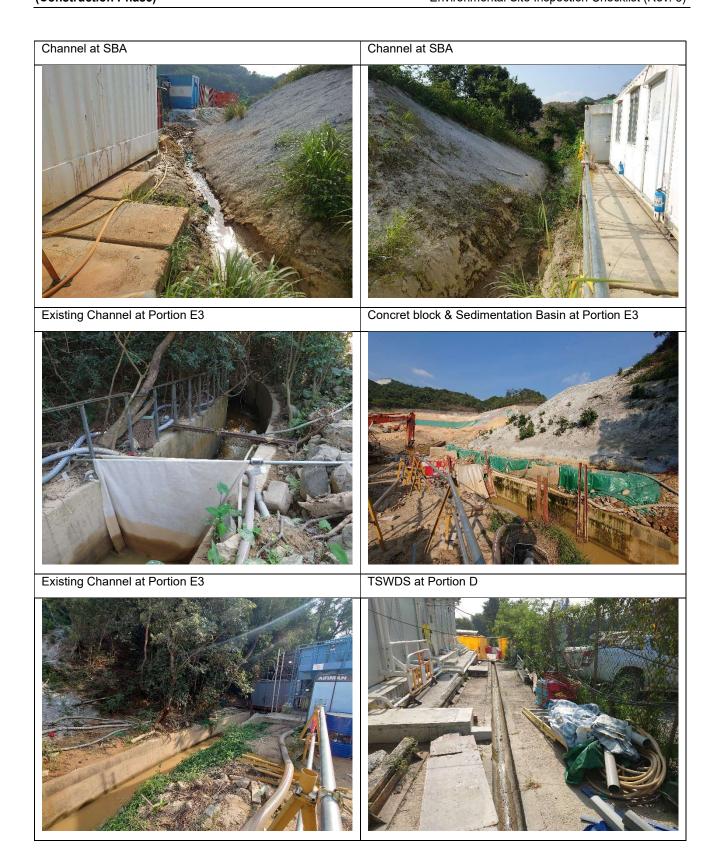
Observation and Recommendation	Follow-up status
6 November 2023 Observation 2	
	Waiting for Contractor Input
The muddy water which is caused from the water spraying by the water sprinkler at the Portion A is found. The deposited silt and grit are found under the tower crane at the Portion A. The contractor has been recommended that the sandbag barriers or bunds should be provided and established along the water safety barriers at the Portion A. The muddy water should be collected from the proper channel, final to the silt removal facility for treatment. The deposited silt and grit under the tower crane at the Portion A should be removed.	

Observation and Recommendation	Follow-up status
6 November 2023 Observation 3	Waiting for Contractor Input
The food waste is found at the waste skip of SBA. The general waste should be stored in the enclosed bins. The contractor has been advised that the additional enclosed bin should be increased at the SBA. The "type of waste" label should be labelled at the surrounding of the enclosed bins or waste skip for easily identify for on-site workers.	

Observation and Recommendation	Follow-up status
6 November 2023 Observation 4	Waiting for Contractor Input

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





Sedimentation Basin at Portion E4



Environmental Site Inspection Checklist	(Rev.	3))
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Inspection Date:	13 November 2023	Inspected By:	Jason Man		
Time:	14:00	Weather Condition:	Sunny		
Participants:	Kim Tang (ER), Matt Choy (Contractor), Jason Man (ET)				

Α	Permits/Licenses	N/A or Not Observed	Yes	No	Remarks / Photo
A1	Are Environmental Permit, license/ other permit displayed at major site exit and vehicle access?		\boxtimes		
A2	Are Construction Noise Permits/ Environmental license/ other permit available for inspection/posted at site entrance.		\boxtimes		
A3	Is wastewater discharge licence available for inspection?		\boxtimes		
A4	Are trip tickets for chemical waste and construction waste disposal available for inspection?		\boxtimes		
A5	Are relevant licence/permit for disposal of construction waste or excavated materials available for inspection?		\boxtimes		

в	Air Quality	N/A or Not Observed	Yes	No	Remarks / Photo
B1	Is open burning avoided?		\boxtimes		
B2	Are <u>plant and equipment</u> well maintained (i.e. without black smoke from powered plant)?		\boxtimes		
B3	Any remedial action undertaken?	\boxtimes			N/A
B4	Are the worksites wetted with water regularly?		\boxtimes		
B5	Are <u>NRMM labels</u> properly affixed on the PMEs?		\boxtimes		
B6	Observed dust source(s)				
		U Wind eros	sion		
		Vehicle/ E	Equipment	Moveme	nts
		Loading/	unloading	of materi	als
		Others: _			
Air P	ollution Control (Construction Dust) Regulation				
<u>Part I</u>	Control Requirements for Notifiable Works				
Demo	plition of building				
B7	Is the area involved demolition activities sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities?	\boxtimes			N/A
Cons	truction of the superstructure of a building				
B8	Is <u>scaffolding</u> erected around the perimeter of a building under construction?		\boxtimes		

B9	Are effective <u>dust screens</u> , <u>sheeting</u> or <u>netting</u>				
	provided to enclose the scaffolding from the ground				Refer to 6 Nov 2023
	floor level of the building, or a canopy provided from			\square	Observation 1
	the first floor level up to the highest level of the				
	scaffolding?				
B10	Is the <u>skip</u> for materials transport enclosed by		\square		
	impervious sheeting?				
Part I	II General Control Requirements				
<u>Site b</u>	oundary and entrance				
B11	Are wheel washing facilities with high pressure		\square		
	water jet provided at all site exits if practicable?				
B12	Are the areas of washing facilities and the road				
	section between the washing facilities and the				
	exit point paved with concrete, bituminous materials or hardcore?				
B13	Are the <u>hoarding</u> \ge 2.4m tall provided at the site				
	boundary near a road, street, service lane or other				
	area accessible to the public?				
Asses	ss road				
B14	Are every main haul road (having a vehicle passing				
	rate of higher than 4 in any 30 minutes) paved with				
	concrete, bituminous materials, hardcore or metal				
	plates, and kept clear of dusty materials?				
B15	Are every main haul road sprayed with water or a		\boxtimes		
	dust suppression chemical?				
B16	Is the portion of any road leading only to construction				
	site (within 30m of a vehicle entrance or exit) kept				
	clear of dusty materials?				
B17	Are appropriate speed limit sign displayed?		\boxtimes		
B18	Is unpaved main haul road wet by water spraying?				
	··· <u>·································</u>				
	ent and dry pulverized fuel ash (PFA)		1	1	1
B19	Is every stock of more than 20 bags of cement or				
	dry pulverized fuel ash (PFA) covered entirely by	\boxtimes			N/O
	impervious sheeting or placed in an area sheltered				
	on the top and 3 sides?				
B20	Are the activities of loading, unloading, transfer,				
	handing or storage of bulk cement or dry PFA	\boxtimes			N/A
	carried out in a totally enclosed system or facility?				
B21	Is any vent or exhaust fitted with an effective fabric	\boxtimes			N/A
	filter or equipment air pollution control system?				
Exposed earth					
B22	Is the exposed earth properly treated by				
	compaction, turfing, hydroseeding, vegetation				
	planting or sealing with latex, vinyl, bitumen,				
	shotcrete or other suitable surface stabilizer		\boxtimes		
	within 6 months after last construction activity on the				
	construction site or part of the construction site				
	where the exposed earth lies?				

Part I	Part IV Control Requirements for Individual Activities					
Stock	Stockpiling of dusty materials					
B23	 Are the stockpiling of dusty materials (a) covered entirely by <u>impervious sheeting</u> or (b) placed in an <u>area sheltered on the top and the</u> <u>3 sides</u> or (c) <u>sprayed with water</u> or a dust suppression chemical to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the <u>excavation or unloading</u>? 				N/O	
B24	Is the stockpile of dusty materials avoid to be extend beyond the pedestrian barriers, fencing or traffic cones ?		\boxtimes			
Load	ing, unloading or transfer of dusty materials			•		
B25	Are all dusty materials <u>sprayed with water</u> or a dust suppression chemical immediately <u>prior to</u> <u>any loading, unloading or transfer operation</u> so as to maintain the dusty materials wet?					
B26	Are all trucks loaded to a level within the side and tail boards?		\boxtimes			
<u>Use c</u>	of vehicles					
B27	Are every vehicle washed Immediately to remove any dusty materials from its body and wheels before leaving a construction site?		\boxtimes			
B28	Are loaded dump trucks covered by impervious sheeting appropriately before leaving the site?			\boxtimes	Refer to 13 Nov 2023 Observation 1	
B29	Are site vehicle movements confined to designated roads?		\square			
<u>Pneu</u>	matic or power-driven drilling, cutting and polishing	3				
B30	Are <u>surfaces</u> where any <u>pneumatic or power-</u> <u>driven drilling, cutting, polishing or other</u> <u>mechanical breaking operations</u> takes place sprayed with water or a dust suppression chemical continuously? *Unless the process is accompanied by the operation of an effective dust extraction and filtering device.	\boxtimes			N/A	
<u>Debri</u>	s handling					
B31	Are any debris covered entirely by <u>impervious</u> <u>sheeting</u> or stored in a <u>debris collection area</u> sheltered on the top and the 3 sides?	\boxtimes			N/A	
B32	Are every <u>debris chute</u> shall be enclosed by impervious sheeting or similar materials?	\boxtimes			N/A	
B33	Are the watering spray or a dust suppression chemical conducted before <u>debris is dumped</u> into a debris chute?	\boxtimes			N/A	

Exca	vation or earth moving		
B34	Are the working area of any excavation or earth moving operation <u>sprayed with water</u> or a dust suppression chemical immediately before, during and immediately after the operation?	\boxtimes	
<u>Site c</u>	learance		
B35	Are the working area for the <u>uprooting of trees</u> , <u>shrubs</u> , or <u>vegetation</u> or for the <u>removal of</u> <u>boulders</u> , <u>poles</u> , <u>pillars</u> or <u>temporary</u> or <u>permanent structures</u> sprayed with water or a dust suppression chemical immediately before, during and immediately after the operation?	\boxtimes	
B36	Are <u>all demolished items</u> (including <u>trees</u> , <u>shrubs</u> , <u>vegetation</u> , <u>boulders</u> , <u>poles</u> , <u>pillars</u> , <u>structures</u> , <u>debris</u> , <u>rubbish</u> and <u>other items arising from site</u> <u>clearance</u>) that may dislodge dust particles covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides within a day of demolition?	\boxtimes	

с	Construction Noise	N/A or Not Observed	Yes	No	Remarks / Photo
C1	Is well-maintained plant operated on-site and plant served regularly?		\boxtimes		
C2	Are <u>vehicles</u> and <u>equipment</u> switched off or throttled down while not in use?		\boxtimes		
C3	Is the noise directed away from nearby <u>NSRs</u> ?		\square		
C4	Are the <u>silencers</u> or <u>mufflers</u> properly fitted on construction equipment and maintained regularly?	\boxtimes			N/O
C5	Are mobile and/or noisy plant sited as far away from NSRs as possible and practicable and orientated so that the noise is directed away from nearby NSRs?		\boxtimes		
C6	Are <u>material stockpiles</u> , <u>mobile container officer</u> and <u>other structures</u> utilised to screen noisy activates?		\boxtimes		
C7	Is temporary hoarding installed located on the site boundaries between noisy construction activities and NSRs?		\boxtimes		
C8	Are <u>noise barriers</u> (typically density @14kg/m ²) <u>acoustic mat</u> or <u>full enclosure</u> close to noise plants including air compressor, generators and saw etc. provided to protect NSRs?	\boxtimes			N/O
C9	Is the sequencing operation of construction plants where practicable?		\boxtimes		
C10	Is the hoarding maintained properly?		\boxtimes		
C11	<u>Air compressors</u> (500 kPa or above) and <u>hand</u> <u>held percussive breaker</u> (mass of above 10 kg) with valid noise labels?				
C12	Are <u>compressor</u> operated with doors closed?		\square		
C13	<u>QPME</u> used with valid noise labels?		\boxtimes		
C14	Major noise source(s)		•	1	
		Traffic			
			tion activiti	es inside	of site
			tion activiti	es outsid	e of site
		Others:			

Report No. 0076-20231113

(Construction Phase)

D	Water Quality	N/A or Not Observed	Yes	No	Remarks / Photo
Cons	truction Runoff				
D1a	At the start of site establishment, are perimeter <u>cut-off drains</u> constructed to direct off-site water around the site with internal drainage works and erosion and sedimentation control facilities implemented?	\boxtimes			N/O
D1b	Are <u>channels</u> , <u>earth bunds</u> or <u>sandbag barriers</u> provided on site to properly direct stormwater to silt removal facilities?				Refer to 6 Nov 2023 Observation 2
D2a	Have <u>dikes</u> or <u>embankments</u> for <u>flood protection</u> implemented around the boundaries of earthwork areas?	\boxtimes			N/A
D2b	Have <u>temporary ditches</u> provided to facilitate the runoff discharge into an appropriate watercourse, through a site/ sediment trap?		\boxtimes		
D2c	Are the <u>sediment/ silt traps</u> incorporated in the permanent drainage channels to enhance deposition rate?		\boxtimes		
D3	Are the <u>retention time for silt/s and traps</u> of the silt removal facilities be <u>5 minutes</u> under maximum flow conditions?		\boxtimes		
D4a	Are <u>surface excavation works</u> minimised during rainy seasons (April to September), as possible?	\boxtimes			N/A
D4b	Are <u>all exposed earth areas</u> completed or vegetated as soon as possible after earthworks completed, or alternatively, <u>within 14 days</u> of the <u>cessation</u> of <u>earthworks</u> where practicable?	\boxtimes			N/A
D4c	Are <u>exposed slope surfaces</u> covered by tarpaulin sheets?				Shotcrete in progress. Refer to 6 Nov 2023 Observation 4
D5a	Have the overall slope of the site should be kept a minimum?	\boxtimes			N/A
D5b	Are <u>all trafficked areas</u> and <u>access roads</u> protected by coarse stone ballast?	\boxtimes			N/A
D6a	Are <u>all drainage facilities</u> and <u>erosion</u> and <u>sediment control structures</u> inspected regularly?		\boxtimes		
D6b	Are <u>all drainage facilities</u> and <u>erosion</u> and <u>sediment control structures</u> maintained to ensure proper and efficient operation at all times and particularly following rainstorms?		\boxtimes		
D6c	Is the <u>deposited silt</u> and <u>grit</u> removed regularly and disposed of by spreading evenly over stable?		\boxtimes		
D7a	Have the <u>excavation</u> of <u>trenches</u> in wet periods be dug and backfilled in short sections?		\boxtimes		
D7b	Is rainwater pumped out from <u>trenches</u> discharged into storm drains via silt system?		\boxtimes		
D8	Are open stockpiles of construction materials e.g. aggregates and sand of more than 50m ³ on site covered with tarpaulin or similar fabric during rainstorms?		\boxtimes		

D9a	Are manholes adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage?		\boxtimes	
D9b	Are the <u>discharges</u> of <u>surface run-off</u> into foul sewer always prevented?			
D10a	Are particular attention paid to the control of <u>silty</u> <u>surface runoff</u> during <u>storm event</u> ?			
	 Are the precautions to be taken at <u>any time</u> of year when rainstorms are likely? (Appendix A2 of ProPECC PN 1/94) i. <u>Silt removal facilities</u>, <u>channels</u> and <u>manholes</u> should be maintained and the <u>deposited silt</u> and <u>grit</u> should be removed regularly. ii. <u>Temporarily exposed slope surfaces</u> should be cover by tarpaulin. 			
D10b	 iii. <u>Temporary access roads</u> should be protected by crushed stone or gravel. iv. <u>Intercepting channels</u> should be provided (e.g. along the crest/edge of excavation) to prevent storm runoff from washing across exposed soil surfaces. v. <u>Trenches</u> should be dug and backfilled in short 			
	sections. Measures should be taken to minimize the ingress of rainwater into trenches. Are the actions to be taken when a <u>rainstorm</u> is <u>imminent</u> or <u>forecas</u> t? (Appendix A2 of ProPECC PN 1/94)			
D10c	 i. <u>Silt removal facilities</u>, <u>channels</u> and <u>manholes</u> should be checked to ensure that they can function properly. ii. <u>Open stockpiles</u> of <u>construction materials</u> (e.g. aggregates, sand and fill materials) on site should be covered with tarpaulin or similar fabric. iii. <u>All temporary covers to slopes and stockpiles</u> should be secured. 			
D10d	 Are the actions to be taken <u>during</u> or <u>after</u> <u>rainstorms</u>? (Appendix A2 of ProPECC PN 1/94) i. <u>Silt removal facilities</u>, <u>channels</u> and <u>manholes</u> should be checked and maintained to ensure satisfactory working conditions. Attention should 			
D11a	be given to safety when carrying out this work. Are <u>all vehicles</u> and <u>plant</u> cleaned before leaving a construction site?			
D11b	construction site? Is the <u>wheel washing bay</u> provided at every site exit?			
D11c	Are the <u>vehicle wash-water</u> have sand and silt settled out and removed at least on a weekly basis?		\square	
D11d	Is the <u>wheel wash</u> overflow directed to silt removal facilities before being discharged to the storm drain?	\boxtimes		N/O
D11e	Is the section of <u>construction road between the</u> <u>wheel washing bay and the public road</u> paved with backfill?			
D11f	Is the treated wastewater reused for <u>vehicle</u> <u>washing</u> , <u>dust suppression</u> and <u>general cleaning</u> ?		\boxtimes	
D12a	Are <u>oil interceptors</u> provided in the site drainage system downstream of any oil/ fuel pollution sources?	\boxtimes		N/A

			1		1		
D12b	Are the <u>oil interceptors</u> are emptied and cleaned regularly to prevent the release of O&G into the storm water drainage system after accidental spillage?	\boxtimes			N/A		
D12c	Has a <u>bypass</u> provided to prevent flushing during heavy rain?						
D13	Are the <u>construction solid waste</u> , <u>debris</u> and <u>rubbish</u> on site collected, handled and disposed of properly? (same with waste item)		\boxtimes				
D14	Are <u>all fuel tanks</u> and <u>storage areas</u> provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank?				Refer to 30 Oct 2023 Observation 1		
D15	Is Intercepting bund or barrier along the roadside constructed to prevent pollution risk arising from work area (waste reception area)?		\boxtimes				
D16	Are <u>site drainage systems</u> provided over the entire project site with sediment control facilities?		\boxtimes				
D17	Are sedimentation tanks provided to treat the large amount of sediment-laden wastewater generated from wheel washing, site runoff and construction works?		\boxtimes				
D18	Is there any sediment plume observed in nearby watercourses?			\boxtimes			
Sewage Effluent from Workforce (On-site sanitary facilities)							
D19a	Are portable chemical toilets and sewage holding tanks provided?						
D19b	Is the sewage generated from toilets collected by licensed contractor and responsible for disposal and maintenance?		\boxtimes				
D20	Are the notices posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment?	\boxtimes			N/O		
Accide	ental Spillage of Chemical (Service workshop and m	aintenance fac	<u>cilities)</u>				
D21a	Are the <u>service workshop</u> and <u>maintenance</u> <u>facilities</u> located within a bunded area, and sumps and oil interceptors?	\boxtimes			N/O		
D21b	Are all <u>maintenance of equipment</u> involving activities with potential for leakage and spillage undertaken within the areas?	\boxtimes			N/O		
D21c	Is <u>chemical leakage</u> or <u>spillages</u> contained and cleaned up immediately?	\boxtimes			N/O		
Surfac	ce Water Drainage System						
D22a	Is the <u>temporary surface water drainage system</u> provided to manage runoff?						
D22b	Does the system consist of <u>channel</u> as constructed around the perimeter of the site area?		\boxtimes				
D22c	Does the system collect surface water from the <u>areas</u> of higher elevations to those of <u>lower elevations</u> and ultimately to the discharge point?		\boxtimes				
D22d	Is the erosion minimised?		\boxtimes				
D23a	Does the system include the <u>use of a silt fence</u> around the <u>soil stockpile areas</u> to prevent sediment from entering the system?		\square				

-			
D23b	Is the regular <u>cleaning</u> carried out to prevent	\boxtimes	
	blockage of the passage of waste flow in silt fence?		

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Е	Waste / Chemical Management	N/A or Not Observed	Yes	No	Remarks / Photo			
Waste Management								
<u>Gener</u>	al Waste							
E1	Is the general waste generated on-site stored in <u>enclosed bins</u> or compaction units separately from the construction and chemical wastes?			\boxtimes	Refer to 6 Nov 2023 Observation 3			
E2a	Is the general waste collected properly by using the <u>waste separation facilities</u> for paper, aluminium cans, plastic bottles etc.?		\boxtimes					
E2b	Does accumulation of waste avoid?		\boxtimes					
E2c	Is waste disposed regularly?		\boxtimes					
E2d	Regular <u>waste collection</u> by approved waste collector in purpose-built vehicles?		\boxtimes					
E3	Burning of refuse on construction site prohibited?		\boxtimes					
<u>C&D I</u>	Materials							
E4a	Are there any <u>contract documents</u> provided to allow and promote the <u>use of recycled aggregates</u> where appropriate?		\boxtimes					
E4b	Are the <u>C&D materials</u> sorted and recycled on-site?		\boxtimes					
E5a	Is the <u>durable formwork</u> or <u>plastic facing</u> for construction works used?		\boxtimes					
E5b	Do the wooden hoardings avoid to be used?		\boxtimes					
E5c	Is <u>metal hoarding</u> used to enhance the possibility of recycling?		\boxtimes					
E6a	Are the concrete and masonry used as general fill?		\boxtimes					
E6b	Are the steel reinforcement bars used by scrap steel mills?		\boxtimes					
E6c	Is the <u>segregation</u> and <u>storage</u> of C&D wastes undertaken in designated area?		\boxtimes					
E6d	Does the use of reusable steel formwork maximise?		\boxtimes					
E7a	Are the temporary stockpiles maintained regularly?		\times					
E7b	Is the <u>excavated fill material</u> reused for backfilling and reinstatement?		\boxtimes					
E8a	Are the excavated slope , stockpile material and bund walls covered by tarpaulin?		\boxtimes					
E8b	Are covering trucks or transporting wastes in enclosed containers when transportation of waste ?		\boxtimes					
E8c	Are <u>waste storage area</u> properly cleaned and do not cause windblown litter and dust nuisance?		\boxtimes					
E9	Is <u>hydroseeding</u> of the topsoil on the <u>stockpile</u> implemented to improve visual appearance and prevent soil erosion?		\boxtimes					
E10	Is the 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 implemented?		\boxtimes					

E11	Are the training of site personnel for cleanliness, proper waste management procedures including chemical waste handling, and waste reduction, reuse and recycling concept implemented?		\boxtimes		
E12	Are the <u>regular cleaning</u> and <u>maintenance</u> <u>programme</u> for drainage systems, sumps, oil interceptors?		\boxtimes		
E13a	Are wood , steel and other metals separated for re- use and/or recycling?		\boxtimes		
E13b	Do the excavated materials appear contaminated?			\boxtimes	
E13c	If suspected contaminated, appropriate procedures followed?	\boxtimes			N/A
E14	Is the <u>disposal</u> of <u>C&D materials</u> avoided onto any sensitive locations e.g. agricultural lands etc.?		\boxtimes		
E15	Are the public fill and C&D waste segregated and <u>stored</u> in different containers or skips to enhance reuse or recycling of materials and their proper disposal?		\boxtimes		
Chemi	ical Waste / Waste Oil				
E16	Are <u>chemicals</u> and <u>waste oil</u> recycled or disposed properly?			\boxtimes	Refer to 3 Oct 2023 Observation 1 Refer to 30 Oct 2023 Observation 1
<u>Chemi</u>	ical Packaging				
E17a	Have the <u>containers</u> a capacity of <u><450 L</u> unless the specification has been approved by EPD?	\boxtimes			N/A
E17b	Are the <u>containers</u> (holding, resistant to corrosion, maintained in a good condition, and securely closed) used for <u>storage of chemical wastes</u> ?			\boxtimes	Refer to 30 Oct 2023 Observation 1
Chemi	cal Labelling				
E18	Is chemical waste or waste oil <u>stored</u> and <u>labelled</u> in <u>English and Chinese</u> properly in designated area? Capacity of Dimensions of Label Container < 50L No less than 90 x 100mm 50 to 450L No less than 120 x 150mm > 450L No less than 180 x 200mm		×		
<u>Chemi</u>	cal Waste / Fuel Storage Area				
E19a	Are the storage area are clearly labelled and separated (if needed)?	\boxtimes			N/O
E19b	Are the <u>storage area</u> enclosed <u>3 sides by walls</u> / <u>fence of ≥2m tall</u> and bounded with adequate bund capacity (<u>>110% of largest container</u>) or do the storage area allow <u>storage of 20% of total volume</u> <u>of waste</u> ?				N/O
E19c	Do the storage areas have adequate ventilation and be covered to prevent rainfall entering and reduce heat from sunlight?	\square			N/O
E19d	Are the fuel tanks and chemical storage areas provided with locks and sited on sealed areas?	\boxtimes			N/O

E20	Is chemical waste collected by <u>licensed waste</u> <u>collectors</u> and disposed of at <u>licensed facility</u> eg. Chemical Waste Treatment Centre?		\boxtimes						
<u>Reco</u>	Records								
E21	Is a licensed waste hauler used for <u>waste</u> <u>collection</u> ?		\boxtimes						
E22	Are the records of quantities of wastes generated, recycled and disposed properly kept?		\boxtimes						
E23	For the demolition material / waste, is the <u>number of</u> <u>loads</u> for each day recorded as appropriate?		\boxtimes						

F	Landfill Gas (LFG)	N/A or Not Observed	Yes	No	Remarks / Photo
Withir	NENT Landfill Extension				
F1	Are <u>special LFG precautions</u> taken to avoid potential hazards of LFG exposure (ignition, explosion, asphyxiation, toxicity)?	\boxtimes			N/O
F2	Are prominent safety warning signs erected on- site to alert all personnel and visitors of LFG hazards during excavation works.?		\boxtimes		
F3	Is no smoking or burning permitted on-site?	\boxtimes			N/O
F4	Are prominent <u>'No smoking'</u> and <u>'No Naked</u> <u>Flames' signs</u> erected on-site?	\boxtimes			N/O
F5	Is no worker allowed to work alone at any time in excavated trenches or confined areas on-site?		\boxtimes		
F6	Is adequate <u>fire fighting equipment</u> provided on- site?		\boxtimes		
F7	Are <u>construction equipment</u> equipped with vertical exhaust at least 0.6m above ground installed with spark arrestors?		\boxtimes		
F8	Are <u>electrical motors</u> and <u>extension cords</u> explosion-proof and intrinsically safe for use on- site?	\boxtimes			N/O
F9	Is 'Permit to Work' system implemented?		\boxtimes		
F10	Are <u>welding</u> , <u>flame-cutting</u> or <u>other hot works</u> conducted only under 'Permit to Work' system following clear safety requirements, gas monitoring procedures and presence of qualified persons to supervise the works?		\boxtimes		
F11a	For piping assembly or conduit construction , are all valves and seals closed immediately after installation?	\boxtimes			N/A
F11b	Are the <u>pipe ends</u> sealed on one side during installation if installation of large diameter pipes (diameter > 600mm) is required?	\boxtimes			N/A
F11c	Is <u>forced ventilation</u> implemented prior to operation of installed pipeline?	\boxtimes			N/A
F11d	Is <u>forced ventilation</u> implemented for <u>works</u> inside trenches deeper than 1m?	\boxtimes			N/A
F12	Is frequency and location of <u>LFG monitoring</u> within excavation area determined prior to commencement of works? *LFG monitoring in excavations should be conducted at < 10mm from exposed ground surface.		X		
F13	For excavation works, Is <u>LFG monitoring</u> 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?				

		1			
F14	Are <u>LFG monitoring</u> conducted periodically when any cracks on ground level encountered on-site?		\square		
	*Appropriate action should be taken in accordance with the action plan in Table 7.6 of EIA Report.				
F15a	Are LFG precautionary measures involved in				
1 104	excavation and piping works provided in				
	accordance with LFG Guidance Note and included				
	in Safety Plan of construction phase?				
F15b	Are temporary offices or buildings located where				
	free LFG has been proven or raised clear of ground				
	at a separation distance of at least 500mm?				
F16	Is a <u>Safety Officer trained</u> in the use of gas				
	detection equipment and LFG- related hazards				
	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%				
F17a	Periodically during groundwork construction, Is the				
	works area 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.				
F17b	Is routine monitoring carried out in all excavations,				
	manholes, created by temporary storage of building				
	materials on-site?				
F17c	Are all measurements in excavations made with				
	monitoring tube located < 10mm from exposed				
	ground surface?				
F18	For excavations > 1m, are measurements				
	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				
	 Period the excertain remains open, and Periodically throughout the working day whilst 				
	workers are in excavation.				
F19	For excavations 300mm to 1m, are measurements		\square		
	conducted?				
	• Directly after excavation has been completed;				
	and				
	• Periodic all whilst excavation remains open.				
F20	For excavations < 300mm, are monitoring omitted		\boxtimes		
	at the discretion of Safety Officer or appropriately				
1	qualified person?	1			

(Construction Phase)

G	Landscape and Visual Impacts	N/A or Not Observed	Yes	No	Remarks / Photo
G1	Is the work site confined within site boundaries?		\square		
G2	Is damage to surrounding areas avoided ?		\boxtimes		
G3	Are the protective fencing erected along or beyond the perimeter of the <u>tree protection zone</u> of each individual tree?		\boxtimes		
Advar	nced screening tree planting				
G4a	Is early planting using fast growing plants and tall shrubs at <u>strategic locations</u> within site implemented?				
G4b	Are the roadside planter and shrub planting implemented in front of <u>Cheung Sha Temple</u> ?		\boxtimes		
Bound	dary Green Belt planting				
G5	Are the <u>fast growing</u> and <u>fire-resistant plant</u> <u>species</u> planted around the site perimeter?		\boxtimes		
Temp	orary landscape treatment as green surface cover				
G6	Are grass hydroseeding or synthetic covering material of green colour used as a temporary slope <u>cover</u> ?		\boxtimes		
Existi	ng tree preservation				
G7	Are <u>existing</u> and <u>affected tree</u> which identified as ecological significant preserved whenever possible?		\boxtimes		

н	Ecology	N/A or Not Observed	Yes	No	Remarks / Photo
H1	Is transplantation of the important plant species implemented? Is post-transplantation maintained and monitored regularly?		\boxtimes		

I	Environmental Complaint	N/A or Not Observed	Yes	No	Remarks / Photo
11	Environmental Complaint received during this week?			\mathbb{X}	
J	General Housekeeping / Others	N/A or Not Observed	Yes	No	Remarks / Photo
J1	Are the defined boundaries of working areas identified to prevent loss of vegetation		\boxtimes		
J2	Are the portable toilets maintained in a state, which will not deter the workers from utilizing these portable toilets?		\boxtimes		

Follow up action for previous Site Inspection: 18 September 2023 Observation 6 – The Temporary Surface Water Drainage System was enhanced and updated by the contractor. The sedimentation basins, concrete block, sedimentation tank and silt removal facility at Portion E3-1 were repaired and established by the contractor. 6 November 2023 Observation 2 – The bunds near the safety barriers at the Portion A had been established by the contractor. 6 November 2023 Observation 3 – The waste at the waste skip of SBA was removed by the contractor. Observation(s): The loaded dup truck without covering impervious sheet is found at the assess road between Portion A and E4. Corrective Actions – Mitigation Measures Implemented or Proposed (if any): The contractor has been recommended to ensure all of loaded dump trucks should be covered by impervious sheeting.

Environmental Site Inspection Checklist (Rev. 3)

Construction	Phase)
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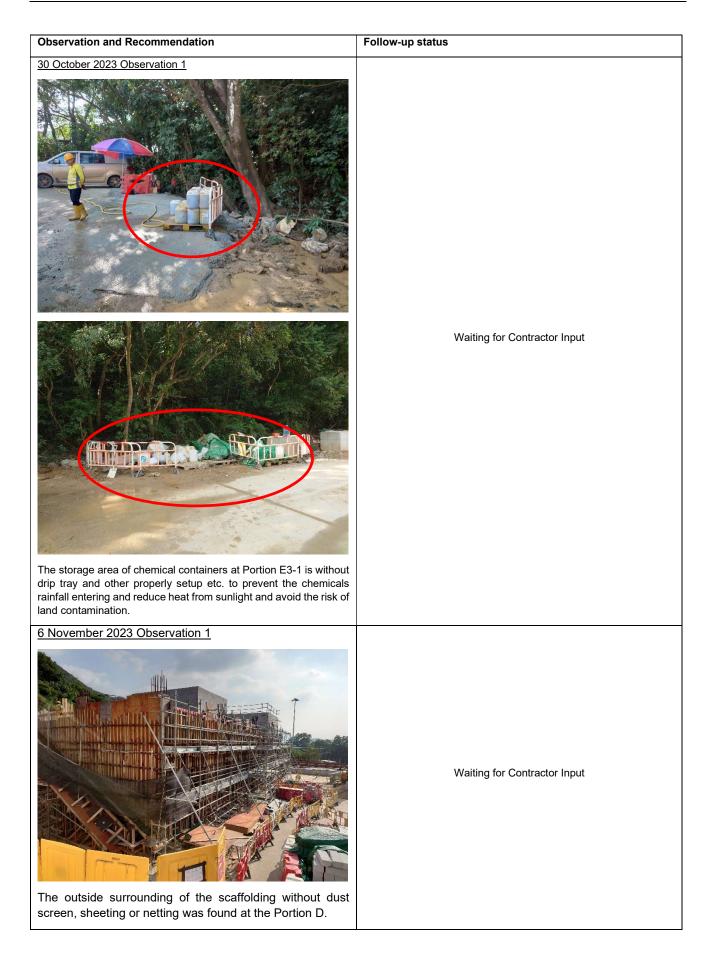
	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:	\sim	1	2.	Ho.
Name:	Jason Man	l ar the	Matt Choy/Kristy Wong	Sylvia Ho
Date:	13 November 2023	. /	13 November 2023	13 November 2023

per al

PART I Follow-up status of the previous site inspection



Observation and Recommendation	Follow-up status
	The Temporary Surface Water Drainage System was enhanced and updated by the contractor. The sedimentation basins, concrete block, sedimentation tank and silt removal facility at Portion E3-1 were repaired and established by the contractor.
3 October 2023 Observation 1	
	Waiting for Contractor's Input
The stagnant water in drip tray should be cleared of in Portion E4.	







Observation and Recommendation	Follow-up status
6 November 2023 Observation 4 6 November 2023 Observation 4 7 November 2023 Observation 4	Waiting for Contractor Input

PART II Observation and recommendation identified during the environmental site inspection

Observation and Recommendation	Follow-up status
	Waiting for Contractor Input
The loaded dup truck without covering impervious sheet is found at the assess road between Portion A and E4. The contractor has been recommended to ensure all of loaded dump trucks should be covered by impervious sheeting.	

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



Environmental Site Inspection Checklist (Rev. 3)

Sedimentation basin at Portion E4



Environmental Site Inspection Checklist (Rev.	3)
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Inspection Date:	20 November 2023	Inspected By:	Jason Man		
Time:	14:00	Weather Condition:	Sunny		
Participants: Sylvia Ho (ER), Matt Choy (Contractor), Echo Hung (IEC), Jason Man (ET), Joan Lo (ET)					

Α	Permits/Licenses	N/A or Not Observed	Yes	No	Remarks / Photo
A1	Are Environmental Permit, license/ other permit displayed at major site exit and vehicle access?		\boxtimes		
A2	Are Construction Noise Permits/ Environmental license/ other permit available for inspection/posted at site entrance.		\boxtimes		
A3	Is wastewater discharge licence available for inspection?		\boxtimes		
A4	Are trip tickets for chemical waste and construction waste disposal available for inspection?		\boxtimes		
A5	Are relevant licence/permit for disposal of construction waste or excavated materials available for inspection?		\boxtimes		

в	Air Quality	N/A or Not Observed	Yes	No	Remarks / Photo	
B1	Is open burning avoided?		\boxtimes			
B2	Are <u>plant and equipment</u> well maintained (i.e. without black smoke from powered plant)?		\boxtimes			
B3	Any remedial action undertaken?	\boxtimes			N/A	
B4	Are the worksites wetted with water regularly?		\boxtimes			
B5	Are <u>NRMM labels</u> properly affixed on the PMEs?		\boxtimes			
B6	Observed dust source(s)					
	☑ Wind erosion					
Vehicle/ Equipment Movements					nts	
		Loading/	unloading	of materi	als	
		Others: _				
Air Po	ollution Control (Construction Dust) Regulation					
<u>Part I</u>	Control Requirements for Notifiable Works					
Demo	olition of building					
B7	Is the area involved demolition activities sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities?	\boxtimes			N/A	
Cons	truction of the superstructure of a building					
B8	Is <u>scaffolding</u> erected around the perimeter of a building under construction?		\boxtimes			

			1		I		
B9	Are effective <u>dust screens</u> , <u>sheeting</u> or <u>netting</u>						
	provided to enclose the scaffolding from the ground	_			Refer to 6 Nov 2023		
	floor level of the building, or a canopy provided from				Observation 1		
	the first floor level up to the highest level of the						
	scaffolding?						
B10	Is the skip for materials transport enclosed by	\boxtimes			N/O		
	impervious sheeting?				N/O		
Part I	II General Control Requirements						
<u>Site t</u>	boundary and entrance						
B11	Are wheel washing facilities with high pressure		\boxtimes				
	water jet provided at all site exits if practicable?						
B12	Are the areas of washing facilities and the road						
	section between the washing facilities and the		\square				
	exit point paved with concrete, bituminous materials						
	or hardcore?						
B13	Are the <u>hoarding</u> \ge 2.4m tall provided at the site	_					
	boundary near a road, street, service lane or other		\square				
	area accessible to the public?						
Asse	ss road						
B14	Are every main haul road (having a vehicle passing						
	rate of higher than 4 in any 30 minutes) paved with		\square				
	concrete, bituminous materials, hardcore or metal						
	plates, and kept clear of dusty materials?						
B15	Are every main haul road sprayed with water or a		\boxtimes				
	dust suppression chemical?						
B16	Is the portion of any road leading only to construction						
	site (within 30m of a vehicle entrance or exit) kept		\boxtimes				
	clear of dusty materials?						
B17	Are appropriate speed limit sign displayed?		\boxtimes				
B18	Is unpaved main haul road wet by water spraying?		\boxtimes				
	ent and dry pulverized fuel ash (PFA)		1	1			
B19	Is every stock of more than 20 bags of cement or						
	dry pulverized fuel ash (PFA) covered entirely by	\boxtimes			N/O		
	impervious sheeting or placed in an area sheltered						
	on the top and 3 sides?						
B20	Are the activities of loading, unloading, transfer,						
	handing or storage of bulk cement or dry PFA	\boxtimes			N/A		
	<u>carried</u> out in a totally enclosed system or facility?						
B21	Is any vent or exhaust fitted with an effective fabric	\boxtimes			N/A		
	filter or equipment air pollution control system?						
<u>Expo</u>	Exposed earth						
B22	Is the exposed earth properly treated by						
	compaction, turfing, hydroseeding, vegetation						
	planting or sealing with latex, vinyl, bitumen,		_	_			
	shotcrete or other suitable surface stabilizer		\boxtimes				
	within 6 months after last construction activity on the						
	construction site or part of the construction site						
	where the exposed earth lies?						

Part I	Part IV Control Requirements for Individual Activities						
Stockpiling of dusty materials							
B23	 Are the stockpiling of dusty materials (a) covered entirely by <u>impervious sheeting</u> or (b) placed in an <u>area sheltered on the top and the</u> <u>3 sides</u> or (c) <u>sprayed with water</u> or a dust suppression chemical to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the <u>excavation or</u> <u>unloading</u>? 				N/O		
B24	Is the stockpile of dusty materials avoid to be extend beyond the pedestrian barriers, fencing or traffic cones ?						
Load	ing, unloading or transfer of dusty materials			1			
B25	Are all dusty materials <u>sprayed with water</u> or a dust suppression chemical immediately <u>prior to</u> <u>any loading, unloading or transfer operation</u> so as to maintain the dusty materials wet?		\boxtimes				
B26	Are all trucks loaded to a level within the side and tail boards?		\boxtimes				
<u>Use c</u>	of vehicles						
B27	Are <u>every vehicle washed Immediately</u> to remove any dusty materials from its body and wheels before leaving a construction site?						
B28	Are loaded dump trucks covered by impervious sheeting appropriately before leaving the site?			\boxtimes	Refer to 13 Nov 2023 Observation 1		
B29	Are site <u>vehicle movements</u> confined to designated roads?						
<u>Pneu</u>	matic or power-driven drilling, cutting and polishing	<u>a</u>	1	1			
B30	Are <u>surfaces</u> where any <u>pneumatic or power-</u> <u>driven drilling, cutting, polishing or other</u> <u>mechanical breaking operations</u> takes place sprayed with water or a dust suppression chemical continuously? *Unless the process is accompanied by the operation of an effective dust extraction and filtering device.				N/A		
<u>Debri</u>	s handling						
B31	Are any debris covered entirely by <u>impervious</u> <u>sheeting</u> or stored in a <u>debris collection area</u> sheltered on the top and the 3 sides?				N/A		
B32	Are every <u>debris chute</u> shall be enclosed by impervious sheeting or similar materials?	\boxtimes			N/A		
B33	Are the watering spray or a dust suppression chemical conducted before <u>debris is dumped</u> into a debris chute?	\boxtimes			N/A		

Exca	vation or earth moving		
B34	Are the working area of any excavation or earth moving operation <u>sprayed with water</u> or a dust suppression chemical immediately before, during and immediately after the operation?	\boxtimes	
<u>Site c</u>	<u>clearance</u>		
B35	Are the working area for the <u>uprooting of trees</u> , <u>shrubs</u> , or <u>vegetation</u> or for the <u>removal of</u> <u>boulders</u> , <u>poles</u> , <u>pillars</u> or <u>temporary</u> or <u>permanent structures</u> sprayed with water or a dust suppression chemical immediately before, during and immediately after the operation?	\boxtimes	
B36	Are <u>all demolished items</u> (including <u>trees</u> , <u>shrubs</u> , <u>vegetation</u> , <u>boulders</u> , <u>poles</u> , <u>pillars</u> , <u>structures</u> , <u>debris</u> , <u>rubbish</u> and <u>other items arising from site</u> <u>clearance</u>) that may dislodge dust particles covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides within a day of demolition?	\boxtimes	

с	Construction Noise	N/A or Not Observed	Yes	No	Remarks / Photo	
C1	Is well-maintained plant operated on-site and plant served regularly?		\boxtimes			
C2	Are <u>vehicles</u> and <u>equipment</u> switched off or throttled down while not in use?		\boxtimes			
C3	Is the noise directed away from nearby <u>NSRs</u> ?		\square			
C4	Are the <u>silencers</u> or <u>mufflers</u> properly fitted on construction equipment and maintained regularly?	\boxtimes			N/O	
C5	Are mobile and/or noisy plant sited as far away from NSRs as possible and practicable and orientated so that the noise is directed away from nearby NSRs?		\boxtimes			
C6	Are <u>material stockpiles</u> , <u>mobile container officer</u> and <u>other structures</u> utilised to screen noisy activates?		\boxtimes			
C7	Is temporary hoarding installed located on the site boundaries between noisy construction activities and NSRs?		\boxtimes			
C8	Are <u>noise barriers</u> (typically density @14kg/m ²) <u>acoustic mat</u> or <u>full enclosure</u> close to noise plants including air compressor, generators and saw etc. provided to protect NSRs?	\boxtimes			N/O	
C9	Is the sequencing operation of construction plants where practicable?		\boxtimes			
C10	Is the hoarding maintained properly?		\boxtimes			
C11	<u>Air compressors</u> (500 kPa or above) and <u>hand</u> <u>held percussive breaker</u> (mass of above 10 kg) with valid noise labels?					
C12	Are <u>compressor</u> operated with doors closed?		\boxtimes			
C13	<u>QPME</u> used with valid noise labels?		\boxtimes			
C14	Major noise source(s)					
		Traffic				
			tion activiti	es inside	of site	
		Construction activities outside of site				
		Others:				

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(Construction Phase)

D	Water Quality	N/A or Not Observed	Yes	No	Remarks / Photo
Const	truction Runoff				
D1a	At the start of site establishment, are perimeter <u>cut-off drains</u> constructed to direct off-site water around the site with internal drainage works and erosion and sedimentation control facilities implemented?	\boxtimes			N/O
D1b	Are <u>channels</u> , <u>earth bunds</u> or <u>sandbag barriers</u> provided on site to properly direct stormwater to silt removal facilities?			\boxtimes	Refer to 6 Nov 2023 Observation 2
D2a	Have <u>dikes</u> or <u>embankments</u> for <u>flood protection</u> implemented around the boundaries of earthwork areas?	\boxtimes			N/A
D2b	Have <u>temporary ditches</u> provided to facilitate the runoff discharge into an appropriate watercourse, through a site/ sediment trap?		\boxtimes		
D2c	Are the <u>sediment/ silt traps</u> incorporated in the permanent drainage channels to enhance deposition rate?		\boxtimes		
D3	Are the retention time for silt/s and traps of the silt removal facilities be <u>5 minutes</u> under maximum flow conditions?		\boxtimes		
D4a	Are <u>surface excavation works</u> minimised during rainy seasons (April to September), as possible?	\boxtimes			N/A
D4b	Are <u>all exposed earth areas</u> completed or vegetated as soon as possible after earthworks completed, or alternatively, <u>within 14 days</u> of the <u>cessation</u> of <u>earthworks</u> where practicable?	\boxtimes			N/A
D4c	Are <u>exposed slope surfaces</u> covered by tarpaulin sheets?				Shotcrete in progress. Refer to 20 Nov 2023 Observation 3
D5a	Have the overall slope of the site should be kept a minimum?	\boxtimes			N/A
D5b	Are <u>all trafficked areas</u> and <u>access roads</u> protected by coarse stone ballast?	\boxtimes			N/A
D6a	Are <u>all drainage facilities</u> and <u>erosion</u> and <u>sediment control structures</u> inspected regularly?		\boxtimes		
D6b	Are <u>all drainage facilities</u> and <u>erosion</u> and <u>sediment control structures</u> maintained to ensure proper and efficient operation at all times and particularly following rainstorms?		\boxtimes		
D6c	Is the <u>deposited silt</u> and <u>grit</u> removed regularly and disposed of by spreading evenly over stable?		\boxtimes		
D7a	Have the <u>excavation</u> of <u>trenches</u> in wet periods be dug and backfilled in short sections?		\boxtimes		
D7b	Is rainwater pumped out from <u>trenches</u> discharged into storm drains via silt system?		\boxtimes		
D8	Are open stockpiles of construction materials e.g. aggregates and sand of more than 50m ³ on site covered with tarpaulin or similar fabric during rainstorms?		\boxtimes		

			1	
D9a	Are manholes adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage?			
D9b	Are the discharges of surface run-off into foul sewer always prevented?			
D10a	Are particular attention paid to the control of <u>silty</u> <u>surface runoff</u> during <u>storm event</u> ?			
	 Are the precautions to be taken at <u>any time</u> of year when rainstorms are likely? (Appendix A2 of ProPECC PN 1/94) i. <u>Silt removal facilities</u>, <u>channels</u> and <u>manholes</u> should be maintained and the <u>deposited silt</u> and 			
	 grit should be removed regularly. ii. <u>Temporarily exposed slope surfaces</u> should be cover by tarpaulin. 	_		
D10b	iii. <u>Temporary access roads</u> should be protected by crushed stone or gravel.			
	iv. <u>Intercepting channels</u> should be provided (e.g. along the crest/edge of excavation) to prevent storm runoff from washing across exposed soil surfaces.			
	v. <u>Trenches</u> should be dug and backfilled in short sections. Measures should be taken to minimize the ingress of rainwater into trenches.			
	Are the actions to be taken when a <u>rainstorm</u> is <u>imminent</u> or <u>forecas</u> t? (Appendix A2 of ProPECC PN 1/94)			
D10c	 i. <u>Silt removal facilities</u>, <u>channels</u> and <u>manholes</u> should be checked to ensure that they can function properly. ii. <u>Open stockpiles</u> of <u>construction materials</u> (e.g. aggregates, sand and fill materials) on site should be covered with tarpaulin or similar fabric. iii. <u>All temporary covers to slopes and stockpiles</u> should be secured. 			
	Are the actions to be taken <u>during</u> or <u>after</u> <u>rainstorms</u> ? (Appendix A2 of ProPECC PN 1/94)			
D10d	i. <u>Silt removal facilities</u> , <u>channels</u> and <u>manholes</u> should be checked and maintained to ensure satisfactory working conditions. Attention should be given to safety when carrying out this work.		\boxtimes	
D11a	Are <u>all vehicles</u> and <u>plant</u> cleaned before leaving a construction site?		\boxtimes	
D11b	Is the wheel washing bay provided at every site exit?		\boxtimes	
D11c	Are the <u>vehicle wash-water</u> have sand and silt settled out and removed at least on a weekly basis?		\boxtimes	
D11d	Is the wheel wash overflow directed to silt removal facilities before being discharged to the storm drain?	\boxtimes		N/O
D11e	Is the section of <u>construction road between the</u> <u>wheel washing bay and the public road</u> paved with backfill?		\square	
D11f	Is the treated wastewater reused for <u>vehicle</u> <u>washing</u> , <u>dust suppression</u> and <u>general cleaning</u> ?		\boxtimes	
D12a	Are <u>oil interceptors</u> provided in the site drainage system downstream of any oil/ fuel pollution sources?	\boxtimes		N/A

D12b	Are the <u>oil interceptors</u> are emptied and cleaned regularly to prevent the release of O&G into the storm water drainage system after accidental spillage?	\boxtimes			N/A
D12c	Has a <u>bypass</u> provided to prevent flushing during heavy rain?				
D13	Are the <u>construction solid waste</u> , <u>debris</u> and <u>rubbish</u> on site collected, handled and disposed of				
	properly? (same with waste item) Are <u>all fuel tanks</u> and <u>storage areas</u> provided with				
D14	locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank?				N/O
D15	Is Intercepting bund or barrier along the roadside constructed to prevent pollution risk arising from work area (waste reception area)?		\boxtimes		
D16	Are <u>site drainage systems</u> provided over the entire project site with sediment control facilities?				
	Are sedimentation tanks provided to treat the large				
D17	amount of sediment-laden wastewater generated from wheel washing, site runoff and construction works?				
D18	Is there any sediment plume observed in nearby watercourses?			\boxtimes	
Sewag	e Effluent from Workforce (On-site sanitary facilities	<u>s)</u>	1	I	
	Are portable chemical toilets and sewage holding				
D19a	tanks provided?				
D19b	Is the <u>sewage generated from toilets</u> collected by licensed contractor and responsible for disposal and maintenance?				
D20	Are the notices posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment?	\boxtimes			N/O
Accide	ental Spillage of Chemical (Service workshop and m	aintenance fac	<u>cilities)</u>		
D21a	Are the <u>service workshop</u> and <u>maintenance</u> <u>facilities</u> located within a bunded area, and sumps and oil interceptors?	\boxtimes			N/O
D21b	Are all <u>maintenance of equipment</u> involving activities with potential for leakage and spillage undertaken within the areas?	\boxtimes			N/O
D21c	Is <u>chemical leakage</u> or <u>spillages</u> contained and cleaned up immediately?	\boxtimes			N/O
Surfac	ce Water Drainage System		1	1	
D22a	Is the temporary surface water drainage system provided to manage runoff?				
D22b	Does the system consist of <u>channel</u> as constructed around the perimeter of the site area?		\boxtimes		
D22c	Does the system collect surface water from the <u>areas</u> of higher elevations to those of <u>lower elevations</u> and ultimately to the discharge point?				
D22d	Is the <u>erosion</u> minimised?		\boxtimes		
D23a	Does the system include the <u>use of a silt fence</u> around the <u>soil stockpile areas</u> to prevent sediment from entering the system?		\boxtimes		

-			
D23b	Is the regular <u>cleaning</u> carried out to prevent blockage of the passage of waste flow in silt fence?	\boxtimes	

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E	Waste / Chemical Management	N/A or Not Observed	Yes	No	Remarks / Photo			
Waste Management								
Gener	al Waste							
E1	Is the general waste generated on-site stored in <u>enclosed bins</u> or compaction units separately from the construction and chemical wastes?				Refer to 20 Nov 2023 Observation 2			
E2a	Is the general waste collected properly by using the <u>waste separation facilities</u> for paper, aluminium cans, plastic bottles etc.?		\boxtimes					
E2b	Does <u>accumulation</u> of <u>waste</u> avoid?			\boxtimes	Refer to 20 Nov 2023 Observation 1			
E2c	Is waste disposed regularly?		\boxtimes					
E2d	Regular waste collection by approved waste collector in purpose-built vehicles?		\boxtimes					
E3	Burning of refuse on construction site prohibited?		\boxtimes					
<u>C&D I</u>	Materials							
E4a	Are there any <u>contract documents</u> provided to allow and promote the <u>use of recycled aggregates</u> where appropriate?		\boxtimes					
E4b	Are the <u>C&D materials</u> sorted and recycled on-site?		\boxtimes					
E5a	Is the <u>durable formwork</u> or <u>plastic facing</u> for construction works used?		\boxtimes					
E5b	Do the wooden hoardings avoid to be used?		\boxtimes					
E5c	Is metal hoarding used to enhance the possibility of recycling?		\boxtimes					
E6a	Are the concrete and masonry used as general fill ?		\boxtimes					
E6b	Are the steel reinforcement bars used by scrap steel mills?		\boxtimes					
E6c	Is the <u>segregation</u> and <u>storage</u> of C&D wastes undertaken in designated area?		\boxtimes					
E6d	Does the <u>use of reusable steel formwork</u> maximise?		\boxtimes					
E7a	Are the temporary stockpiles maintained regularly?		\boxtimes					
E7b	Is the excavated fill material reused for backfilling and reinstatement?		\boxtimes					
E8a	Are the excavated slope , stockpile material and bund walls covered by tarpaulin?		\boxtimes					
E8b	Are covering trucks or transporting wastes in enclosed containers when transportation of waste ?		\boxtimes					
E8c	Are <u>waste storage area</u> properly cleaned and do not cause windblown litter and dust nuisance?		\boxtimes					
E9	Is <u>hydroseeding</u> of the topsoil on the <u>stockpile</u> implemented to improve visual appearance and prevent soil erosion?		\boxtimes					
E10	Is the 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 implemented?		\boxtimes					

E11	Are the <u>training</u> of <u>site personnel</u> for cleanliness, proper waste management procedures including chemical waste handling, and waste reduction, reuse and recycling concept implemented?				
E12	Are the <u>regular cleaning</u> and <u>maintenance</u> <u>programme</u> for drainage systems, sumps, oil interceptors?		\boxtimes		
E13a	Are wood , steel and other metals separated for re- use and/or recycling?		\boxtimes		
E13b	Do the excavated materials appear contaminated?			\square	
E13c	If suspected contaminated, appropriate procedures followed?	\boxtimes			N/A
E14	Is the disposal of C&D materials avoided onto any sensitive locations e.g. agricultural lands etc.?		\square		
E15	Are the public fill and C&D waste segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal?				
<u>Chemi</u>	ical Waste / Waste Oil				
E16	Are <u>chemicals</u> and <u>waste oil</u> recycled or disposed properly?		\boxtimes		
<u>Chemi</u>	ical Packaging				
E17a	Have the <u>containers</u> a capacity of <u><450 L</u> unless the specification has been approved by EPD?	\boxtimes			N/A
E17b	Are the <u>containers</u> (holding, resistant to corrosion, maintained in a good condition, and securely closed) used for <u>storage of chemical wastes</u> ?				
<u>Chemi</u>	ical Labelling		1	1	
E18	Is chemical waste or waste oil stored and labelled inEnglish and ChineseCapacityofDimensions of LabelContainer< 50L				
<u>Chemi</u>	cal Waste / Fuel Storage Area				
E19a	Are the <u>storage area</u> are clearly labelled and separated (if needed)?	\boxtimes			N/O
E19b	Are the <u>storage area</u> enclosed <u>3 sides by walls</u> / <u>fence of ≥2m tall</u> and bounded with adequate bund capacity (>110% of largest container) or do the storage area allow <u>storage of 20% of total volume</u> <u>of waste</u> ?				N/O
E19c	Do the <u>storage areas</u> have adequate <u>ventilation</u> and be covered to prevent rainfall entering and reduce heat from sunlight?	\boxtimes			N/O
E19d	Are the fuel tanks and chemical storage areas provided with locks and sited on sealed areas?	\boxtimes			N/O
E20	Is chemical waste collected by <u>licensed waste</u> <u>collectors</u> and disposed of at <u>licensed facility</u> eg. Chemical Waste Treatment Centre?				

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<u>Reco</u>	<u>ds</u>		
E21	Is a licensed waste hauler used for <u>waste</u> <u>collection</u> ?	\boxtimes	
E22	Are the <u>records of quantities of wastes</u> generated, recycled and disposed properly kept?	\mathbb{X}	
E23	For the demolition material / waste, is the <u>number of</u> <u>loads</u> for each day recorded as appropriate?	\boxtimes	

F	Landfill Gas (LFG)	N/A or Not Observed	Yes	No	Remarks / Photo
Within	NENT Landfill Extension				
F1	Are <u>special LFG precautions</u> taken to avoid potential hazards of LFG exposure (ignition, explosion, asphyxiation, toxicity)?	\boxtimes			N/O
F2	Are prominent safety warning signs erected on- site to alert all personnel and visitors of LFG hazards during excavation works.?		\boxtimes		
F3	Is no smoking or burning permitted on-site?	\boxtimes			N/O
F4	Are prominent <u>'No smoking'</u> and <u>'No Naked</u> <u>Flames' signs</u> erected on-site?	\boxtimes			N/O
F5	Is no worker allowed to work alone at any time in excavated trenches or confined areas on-site?		\boxtimes		
F6	Is adequate <u>fire fighting equipment</u> provided on- site?		\boxtimes		
F7	Are <u>construction equipment</u> equipped with vertical exhaust at least 0.6m above ground installed with spark arrestors?		\boxtimes		
F8	Are <u>electrical motors</u> and <u>extension cords</u> explosion-proof and intrinsically safe for use on- site?	\boxtimes			N/O
F9	Is 'Permit to Work' system implemented?		\boxtimes		
F10	Are <u>welding</u> , <u>flame-cutting</u> or <u>other hot works</u> conducted only under 'Permit to Work' system following clear safety requirements, gas monitoring procedures and presence of qualified persons to supervise the works?		\boxtimes		
F11a	For piping assembly or conduit construction , are all valves and seals closed immediately after installation?	\boxtimes			N/A
F11b	Are the <u>pipe ends</u> sealed on one side during installation if installation of large diameter pipes (diameter > 600mm) is required?	\boxtimes			N/A
F11c	Is <u>forced ventilation</u> implemented prior to operation of installed pipeline?	\boxtimes			N/A
F11d	Is <u>forced ventilation</u> implemented for <u>works</u> inside trenches deeper than 1m?	\boxtimes			N/A
F12	Is frequency and location of LFG monitoring within excavation area determined prior to commencement of works? *LFG monitoring in excavations should be conducted at < 10mm from exposed ground surface.				
F13	For excavation works, Is LFG monitoring 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?		\boxtimes		

		-			
F14	Are <u>LFG monitoring</u> conducted periodically when any cracks on ground level encountered on-site?		\square		
	*Appropriate action should be taken in accordance with the action plan in Table 7.6 of EIA Report.				
F15a	Are <u>LFG precautionary measures</u> involved in				
1 100	excavation and piping works provided in				
	accordance with LFG Guidance Note and included				
	in Safety Plan of construction phase?				
F15b	Are temporary offices or buildings located where				
	free LFG has been proven or raised clear of ground				
	at a separation distance of at least 500mm?				
F16	Is a <u>Safety Officer trained</u> in the use of gas				
	detection equipment and LFG- related hazards				
	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%				
	•O2: 0-21%				
F17a	Periodically during groundwork construction, Is the				
	works area 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				
F17b	person. Is routine monitoring carried out in all excavations,				
	manholes, created by temporary storage of building				
	materials on-site?				
F17c	Are all measurements in excavations made with				
	monitoring tube located < 10mm from exposed				
	ground surface?				
F18	For excavations > 1m, are measurements				
	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. 				
F19	For excavations 300mm to 1m, are measurements				
119	conducted?				
	 Directly after excavation has been completed; 				
	and				
	 Periodic all whilst excavation remains open. 				
F20	For excavations < 300mm, are monitoring omitted		\boxtimes		
	at the discretion of Safety Officer or appropriately				
1	qualified person?				

(Construction Phase)

G	Landscape and Visual Impacts	N/A or Not Observed	Yes	No	Remarks / Photo			
G1	Is the work site confined within site boundaries?		\boxtimes					
G2	Is damage to surrounding areas avoided ?		\boxtimes					
G3	Are the protective fencing erected along or beyond the perimeter of the <u>tree protection zone</u> of each individual tree?		\boxtimes					
Advar	nced screening tree planting							
G4a	Is early planting using fast growing plants and tall shrubs at <u>strategic locations</u> within site implemented?							
G4b	Are the roadside planter and shrub planting implemented in front of Cheung Sha Temple ?		\square					
Bound	dary Green Belt planting							
G5	Are the <u>fast growing</u> and <u>fire-resistant plant</u> <u>species</u> planted around the site perimeter?		\boxtimes					
Temp	orary landscape treatment as green surface cover							
G6	Are grass hydroseeding or synthetic covering material of green colour used as a temporary slope <u>cover</u> ?		\square					
Existi	Existing tree preservation							
G7	Are <u>existing</u> and <u>affected tree</u> which identified as ecological significant preserved whenever possible?		\square					

Н	Ecology	N/A or Not Observed	Yes	No	Remarks / Photo
H1	Is transplantation of the important plant species implemented? Is post-transplantation maintained and monitored regularly?		\boxtimes		

I	Environmental Complaint	N/A or Not Observed	Yes	No	Remarks / Photo
11	Environmental Complaint received during this week?			\mathbb{X}	
J	General Housekeeping / Others	N/A or Not Observed	Yes	No	Remarks / Photo
J1	Are the defined boundaries of working areas identified to prevent loss of vegetation		\boxtimes		
J2	Are the portable toilets maintained in a state, which will not deter the workers from utilizing these portable toilets?		\boxtimes		

Follow up action for previous Site Inspection:

- 1. 3 October 2023 Observation 1 The stagnant water in drip tray has been removed in Portion E4.
- 2. 30 October 2023 Observation 1 The chemical containers at Portion E3-1 were covered by the impervious sheet and the impervious sheet was placed under the storage area of chemical containers.
- 3. 6 November 2023 Observation 4 the exposed slope was covered by impervious sheet properly by the contractor.

Observation(s):

- 1. The overloading of accumulated waste at portion A is found.
- 2. The general waste at the waste skip of SBA is found.
- 3. The slope surface at SBA without covering impervious sheets properly is found.

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

- 1. The contractor has been advised that the enough waste skip should be provided, and the waste should be clean regularly at portion A to prevent and avoid accumulated waste place on the floor.
- 2. The contractor has been reminded that the general waste includes food waste should be stored at the enclosed bins. The enclosed bin with clear label should be provided at SBA near the waste skip.
- 3. The contractor has been recommended that the exposed slope should be covered by impervious sheet.

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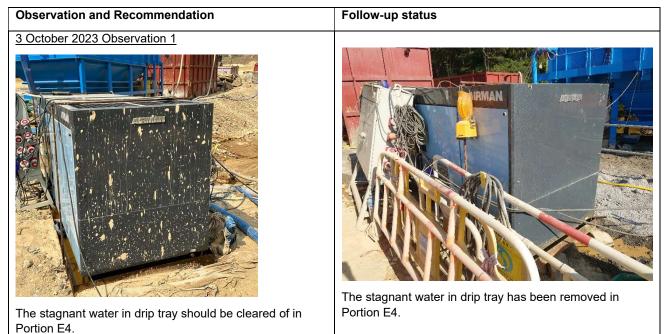
(Construction Phase)

Environmental Site Inspection Checklist (Rev. 3)

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		hho.	2	to.
Name:	Jason Man	Echo Altins , 47	Matt Choy/Kristy Wong	Sylvia Ho
Date:	20 November 2023	20 November 203	20 November 2023	20 November 2023

1. 1

PART I Follow-up status of the previous site inspection





Environmental Site Inspection Checklist (Rev. 3)





Observation and Recommendation

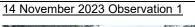
Follow-up status



The slope surface at the Portion E4 should be covered by impervious sheet properly.



The exposed slope was covered by impervious sheet properly by the contractor.





The loaded dup truck without covering impervious sheet is found at the assess road between Portion A and E4. The contractor has been recommended to ensure all of loaded dump trucks should be covered by impervious sheeting. Waiting for Contractor Input

PART II Observation and recommendation identified during the environmental site inspection

Observation and Recommendation	Follow-up status
20 November 2023 Observation 1	Waiting for Contractor Input
20 November 2023 Observation 2 Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution Solution	Waiting for Contractor Input

Observation and Recommendation	Follow-up status
20 November 2023 Observation 3	Waiting for Contractor Input
The slope surface at SBA without covering impervious sheets properly is found. The contractor has been recommended that the exposed slope should be covered by impervious sheet.	

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







Inspection Date:	27 November 2023	Inspected By:	Joan Lo			
Time:	14:00	Weather Condition:	Sunny			
Participants:	Sylvia Ho (ER), Matt Choy (Contractor), Jason Man (ET), Joan Lo (ET)					

Α	Permits/Licenses	N/A or Not Observed	Yes	No	Remarks / Photo
A1	Are Environmental Permit, license/ other permit displayed at major site exit and vehicle access?		\boxtimes		
A2	Are Construction Noise Permits/ Environmental license/ other permit available for inspection/posted at site entrance.		\boxtimes		
A3	Is wastewater discharge licence available for inspection?		\boxtimes		
A4	Are trip tickets for chemical waste and construction waste disposal available for inspection?		\boxtimes		
A5	Are relevant licence/permit for disposal of construction waste or excavated materials available for inspection?		\boxtimes		

в	Air Quality	N/A or Not Observed	Yes	No	Remarks / Photo	
B1	Is <u>open burning</u> avoided?		\boxtimes			
B2	Are plant and equipment well maintained (i.e. without black smoke from powered plant)?		\boxtimes			
B3	Any remedial action undertaken?	\boxtimes			N/A	
B4	Are the worksites wetted with water regularly?		\boxtimes			
B5	Are <u>NRMM labels</u> properly affixed on the PMEs?		\boxtimes			
B6	Observed dust source(s)					
	Wind erosion					
	Vehicle/ Equipment Movements					
		Loading/	unloading	of materia	als	
		Others:			_	
Air Po	ollution Control (Construction Dust) Regulation					
Part I	Control Requirements for Notifiable Works					
Demo	lition of building					
B7	Is the area involved demolition activities sprayed <u>with water</u> or a dust suppression chemical immediately prior to, during and immediately after the activities?	\boxtimes			N/A	
Cons	Construction of the superstructure of a building					
B8	Is <u>scaffolding</u> erected around the perimeter of a building under construction?		\boxtimes			

			r	1			
B9	Are effective dust screens, sheeting or netting						
	provided to enclose the scaffolding from the ground	_			Refer to 6 Nov 2023		
	floor level of the building, or a canopy provided from			\boxtimes	Observation 1		
	the first floor level up to the highest level of the				Observation		
	scaffolding?						
B10	Is the skip for materials transport enclosed by						
	impervious sheeting?	\boxtimes			N/O		
_							
Part I	II General Control Requirements						
<u>Site b</u>	Site boundary and entrance						
B11	Are wheel washing facilities with high pressure		\boxtimes				
	water jet provided at all site exits if practicable?						
B12	Are the areas of washing facilities and the road						
	section between the washing facilities and the						
	exit point paved with concrete, bituminous materials		\boxtimes				
	or hardcore?						
B13	Are the hoarding \ge 2.4m tall provided at the site						
_	boundary near a road, street, service lane or other		\boxtimes				
	area accessible to the public?						
	· ·						
Asse	<u>ss road</u>						
B14	Are every main haul road (having a vehicle passing						
	rate of higher than 4 in any 30 minutes) paved with		\boxtimes				
	concrete, bituminous materials, hardcore or metal						
	plates, and kept clear of dusty materials?						
B15	Are every main haul road sprayed with water or a						
	dust suppression chemical?		\square				
B16	Is the portion of any road leading only to construction						
DIO	site (within <u>30m of a vehicle entrance or exit</u>) kept		\boxtimes				
	clear of dusty materials?						
B17	Are appropriate <u>speed limit sign</u> displayed?						
ыл	Ale appropriate <u>speed milit sign</u> displayed?		\square				
B18	Is unpaved main haul road wet by water spraying?		\boxtimes				
Ceme	ent and dry pulverized fuel ash (PFA)				L		
B19	Is every stock of more than 20 bags of cement or						
	dry pulverized fuel ash (PFA) covered entirely by						
	impervious sheeting or placed in an area sheltered	\boxtimes			N/O		
	on the top and 3 sides?						
B 20							
B20	Are the <u>activities of loading, unloading, transfer,</u>	\boxtimes			N1/A		
	handing or storage of bulk cement or dry PFA				N/A		
	carried out in a totally enclosed system or facility?						
B21	Is any vent or exhaust fitted with an effective fabric	\boxtimes			N/A		
	filter or equipment air pollution control system?						
	sed earth						
B22	Is the exposed earth properly treated by						
	compaction, turfing, hydroseeding, vegetation						
	planting or sealing with latex, vinyl, bitumen,	_		_			
	shotcrete or other suitable surface stabilizer		\boxtimes				
	within 6 months after last construction activity on the		-				
	construction site or part of the construction site						
	where the exposed earth lies?						
L			1				

Part I	Part IV Control Requirements for Individual Activities				
Stock	piling of dusty materials				
B23	 Are the stockpiling of dusty materials (a) covered entirely by <u>impervious sheeting</u> or (b) placed in an <u>area sheltered on the top and the</u> <u>3 sides</u> or (c) <u>sprayed with water</u> or a dust suppression chemical to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the <u>excavation or</u> <u>unloading</u>? 				
B24	Is the stockpile of dusty materials avoid to be extend beyond the pedestrian barriers, fencing or traffic cones ?		\boxtimes		
Load	ing, unloading or transfer of dusty materials				
B25	Are all dusty materials <u>sprayed with water</u> or a dust suppression chemical immediately <u>prior to</u> <u>any loading, unloading or transfer operation</u> so as to maintain the dusty materials wet?		\boxtimes		
B26	Are all trucks loaded to a level within the side and tail boards?		\boxtimes		
<u>Use c</u>	of vehicles				
B27	Are every vehicle washed Immediately to remove any dusty materials from its body and wheels before leaving a construction site?		\boxtimes		
B28	Are loaded dump trucks covered by impervious sheeting appropriately before leaving the site?				
B29	Are site vehicle movements confined to designated roads?		\boxtimes		
<u>Pneu</u>	matic or power-driven drilling, cutting and polishing	1			
B30	Are <u>surfaces</u> where any <u>pneumatic or power-</u> <u>driven drilling, cutting, polishing or other</u> <u>mechanical breaking operations</u> takes place sprayed with water or a dust suppression chemical continuously? *Unless the process is accompanied by the operation of an effective dust extraction and filtering device.	\boxtimes			N/A
<u>Debri</u>	s handling				
B31	Are any debris covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the 3 sides?	\boxtimes			N/A
B32	Are every debris chute shall be enclosed by impervious sheeting or similar materials?	\boxtimes			N/A
B33	Are the watering spray or a dust suppression chemical conducted before <u>debris is dumped</u> into a debris chute?	\boxtimes			N/A

Exca	Excavation or earth moving						
B34	Are the working area of any excavation or earth moving operation <u>sprayed with water</u> or a dust suppression chemical immediately before, during and immediately after the operation?		\boxtimes				
Site o	clearance						
B35	Are the working area for the <u>uprooting of trees</u> , <u>shrubs</u> , or <u>vegetation</u> or for the <u>removal of</u> <u>boulders</u> , <u>poles</u> , <u>pillars</u> or <u>temporary</u> or <u>permanent structures</u> sprayed with water or a dust suppression chemical immediately before, during and immediately after the operation?		\boxtimes				
B36	Are <u>all demolished items</u> (including <u>trees</u> , <u>shrubs</u> , <u>vegetation</u> , <u>boulders</u> , <u>poles</u> , <u>pillars</u> , <u>structures</u> , <u>debris</u> , <u>rubbish</u> and <u>other items arising from site</u> <u>clearance</u>) that may dislodge dust particles covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides within a day of demolition?		\boxtimes				

с	Construction Noise	N/A or Not Observed	Yes	No	Remarks / Photo		
C1	Is well-maintained plant operated on-site and plant served regularly?		\boxtimes				
C2	Are <u>vehicles</u> and <u>equipment</u> switched off or throttled down while not in use?		\boxtimes				
C3	Is the noise directed away from nearby NSRs?		\boxtimes				
C4	Are the <u>silencers</u> or <u>mufflers</u> properly fitted on construction equipment and maintained regularly?	\boxtimes			N/O		
C5	Are mobile and/or noisy plant sited as far away from NSRs as possible and practicable and orientated so that the noise is directed away from nearby NSRs?		\boxtimes				
C6	Are <u>material stockpiles</u> , <u>mobile container officer</u> and <u>other structures</u> utilised to screen noisy activates?		\boxtimes				
C7	Is temporary hoarding installed located on the site boundaries between noisy construction activities and NSRs?		\boxtimes				
C8	Are <u>noise barriers</u> (typically density @14kg/m ²) <u>acoustic mat</u> or <u>full enclosure</u> close to noise plants including air compressor, generators and saw etc. provided to protect NSRs?	\boxtimes			N/O		
C9	Is the sequencing operation of construction plants where practicable?		\boxtimes				
C10	Is the hoarding maintained properly?		\boxtimes				
C11	<u>Air compressors</u> (500 kPa or above) and <u>hand</u> <u>held percussive breaker</u> (mass of above 10 kg) with valid noise labels?		\boxtimes				
C12	Are <u>compressor</u> operated with doors closed?		\boxtimes				
C13	<u>QPME</u> used with valid noise labels?		\boxtimes				
C14	C14 Major noise source(s)						
		Traffic					
			ion activiti	es inside	of site		
			ion activiti	es outside	e of site		
	Others:						

(Construction Phase)

D	Water Quality	N/A or Not Observed	Yes	No	Remarks / Photo		
Construction Runoff							
D1a	At the start of site establishment, are perimeter <u>cut-</u> <u>off drains</u> constructed to direct off-site water around the site with internal drainage works and erosion and sedimentation control facilities implemented?				N/O		
D1b	Are <u>channels</u> , <u>earth bunds</u> or <u>sandbag barriers</u> provided on site to properly direct stormwater to silt removal facilities?			\boxtimes	Refer to 6 Nov 2023 Observation 2		
D2a	Have <u>dikes</u> or <u>embankments</u> for <u>flood protection</u> implemented around the boundaries of earthwork areas?	\boxtimes			N/A		
D2b	Have temporary ditches provided to facilitate the runoff discharge into an appropriate watercourse, through a site/ sediment trap?		\boxtimes				
D2c	Are the sediment/ silt traps incorporated in the permanent drainage channels to enhance deposition rate?		\boxtimes				
D3	Are the retention time for silt/s and traps of the silt removal facilities be <u>5 minutes</u> under maximum flow conditions?		\boxtimes				
D4a	Are <u>surface excavation works</u> minimised during rainy seasons (April to September), as possible?	\boxtimes			N/A		
D4b	Are <u>all exposed earth areas</u> completed or vegetated as soon as possible after earthworks completed, or alternatively, <u>within 14 days</u> of the <u>cessation</u> of <u>earthworks</u> where practicable?	\boxtimes			N/A		
D4c	Are exposed slope surfaces covered by tarpaulin sheets?		\boxtimes				
D5a	Have the <u>overall slope</u> of the site should be kept a minimum?	\boxtimes			N/A		
D5b	Are <u>all trafficked areas</u> and <u>access roads</u> protected by coarse stone ballast?	\boxtimes			N/A		
D6a	Are <u>all drainage facilities</u> and <u>erosion</u> and <u>sediment control structures</u> inspected regularly?		\boxtimes				
D6b	Are <u>all drainage facilities</u> and <u>erosion</u> and <u>sediment control structures</u> maintained to ensure proper and efficient operation at all times and particularly following rainstorms?		\boxtimes				
D6c	Is the <u>deposited silt</u> and <u>grit</u> removed regularly and disposed of by spreading evenly over stable?		\boxtimes				
D7a	Have the <u>excavation</u> of <u>trenches</u> in wet periods be dug and backfilled in short sections?		\boxtimes				
D7b	Is rainwater pumped out from trenches discharged into storm drains via silt system?		\boxtimes				
D8	Are open stockpiles of construction materials e.g. aggregates and sand of more than 50m ³ on site covered with tarpaulin or similar fabric during rainstorms?		\boxtimes				
D9a	Are manholes adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage?		\boxtimes				
D9b	Are the <u>discharges</u> of <u>surface run-off</u> into foul sewer always prevented?		\boxtimes				

D10a	Are particular attention paid to the control of <u>silty</u> surface runoff during storm event?		\boxtimes	
	Are the precautions to be taken at any time of year when rainstorms are likely? (Appendix A2 of ProPECC PN 1/94)			
	 i. <u>Silt removal facilities</u>, <u>channels</u> and <u>manholes</u> should be maintained and the <u>deposited silt</u> and <u>grit</u> should be removed regularly. 			
	ii. <u>Temporarily exposed slope surfaces</u> should be cover by tarpaulin.			
D10b	iii. <u>Temporary access roads</u> should be protected by crushed stone or gravel.		\square	
	iv. <u>Intercepting channels</u> should be provided (e.g. along the crest/edge of excavation) to prevent storm runoff from washing across exposed soil surfaces.			
	v. <u>Trenches</u> should be dug and backfilled in short sections. Measures should be taken to minimize the ingress of rainwater into trenches.			
	Are the actions to be taken when a <u>rainstorm</u> is <u>imminent</u> or <u>forecas</u> t? (Appendix A2 of ProPECC PN 1/94)			
D10c	 i. <u>Silt removal facilities</u>, <u>channels</u> and <u>manholes</u> should be checked to ensure that they can function properly. ii. <u>Open stockpiles</u> of <u>construction materials</u> 		\boxtimes	
	 (e.g. aggregates, sand and fill materials) on site should be covered with tarpaulin or similar fabric. iii. <u>All temporary covers to slopes and stockpiles should be secured.</u> 			
	Are the actions to be taken <u>during</u> or <u>after</u> <u>rainstorms</u> ? (Appendix A2 of ProPECC PN 1/94)			
D10d	i. <u>Silt removal facilities</u> , <u>channels</u> and <u>manholes</u> should be checked and maintained to ensure satisfactory working conditions. Attention should be given to safety when carrying out this work.		\boxtimes	
D11a	Are <u>all vehicles</u> and <u>plant</u> cleaned before leaving a construction site?		\boxtimes	
D11b	Is the wheel washing bay provided at every site exit?		\boxtimes	
D11c	Are the <u>vehicle wash-water</u> have sand and silt settled out and removed at least on a weekly basis?		\boxtimes	
D11d	Is the <u>wheel wash</u> overflow directed to silt removal facilities before being discharged to the storm drain?	\square		N/O
D11e	Is the section of <u>construction road between the</u> <u>wheel washing bay and the public road</u> paved with backfill?		\boxtimes	
D11f	Is the treated wastewater reused for <u>vehicle</u> washing, dust suppression and general cleaning?		\boxtimes	
D12a	Are <u>oil interceptors</u> provided in the site drainage system downstream of any oil/ fuel pollution sources?	\boxtimes		N/A
D12b	Are the <u>oil interceptors</u> are emptied and cleaned regularly to prevent the release of O&G into the storm water drainage system after accidental spillage?	\boxtimes		N/A
D12c	Has a <u>bypass</u> provided to prevent flushing during heavy rain?		\boxtimes	

D13	Are the <u>construction solid waste</u> , <u>debris</u> and <u>rubbish</u> on site collected, handled and disposed of properly? (same with waste item)		\boxtimes			
D14	Are <u>all fuel tanks</u> and <u>storage areas</u> provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank?	\boxtimes			N/O	
D15	Is Intercepting bund or barrier along the roadside constructed to prevent pollution risk arising from work area (waste reception area)?		\boxtimes			
D16	Are <u>site drainage systems</u> provided over the entire project site with sediment control facilities?		\boxtimes			
D17	Are sedimentation tanks provided to treat the large amount of sediment-laden wastewater generated from wheel washing, site runoff and construction works?		\boxtimes			
D18	Is there any <u>sediment plume</u> observed in nearby watercourses?			\boxtimes		
Sewag	e Effluent from Workforce (On-site sanitary facilities	<u>s)</u>				
D19a	Are portable chemical toilets and sewage holding tanks provided?		\boxtimes			
D19b	Is the sewage generated from toilets collected by licensed contractor and responsible for disposal and maintenance?		\boxtimes			
D20	Are the <u>notices</u> posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment?	\boxtimes			N/O	
Accidental Spillage of Chemical (Service workshop and maintenance facilities)						
D21a	Are the <u>service workshop</u> and <u>maintenance</u> <u>facilities</u> located within a bunded area, and sumps and oil interceptors?	\boxtimes			N/O	
D21b	Are all <u>maintenance of equipment</u> involving activities with potential for leakage and spillage undertaken within the areas?	\boxtimes			N/O	
D21c	Is <u>chemical leakage</u> or <u>spillages</u> contained and cleaned up immediately?	\boxtimes			N/O	
Surfa	Surface Water Drainage System					
D22a	Is the temporary surface water drainage system		\boxtimes			
D22b	provided to manage runoff? Does the system consist of channel as constructed around the perimeter of the site area?					
D22c	Does the system collect surface water from the <u>areas</u> of higher elevations to those of <u>lower elevations</u> and ultimately to the discharge point?		\boxtimes			
D22d	Is the <u>erosion</u> minimised?		\boxtimes			
D23a	Does the system include the <u>use of a silt fence</u> around the <u>soil stockpile areas</u> to prevent sediment from entering the system?					
D23b	Is the regular cleaning carried out to prevent blockage of the passage of waste flow in silt fence?		\boxtimes			

(Construction Phase)

Е	Waste / Chemical Management	N/A or Not Observed	Yes	No	Remarks / Photo		
Waste	Waste Management						
General Waste							
E1	Is the general waste generated on-site stored in <u>enclosed bins</u> or compaction units separately from the construction and chemical wastes?			\boxtimes	Refer to 20 Nov 2023 Observation 2		
E2a	Is the general waste collected properly by using the <u>waste separation facilities</u> for paper, aluminium cans, plastic bottles etc.?		\boxtimes				
E2b	Does accumulation of waste avoid?			\boxtimes	Refer to 20 Nov 2023 Observation 2		
E2c	Is waste disposed regularly?		\boxtimes				
E2d	Regular <u>waste collection</u> by approved waste collector in purpose-built vehicles?		\boxtimes				
E3	Burning of refuse on construction site prohibited?		\boxtimes				
<u>C&D I</u>	Materials						
E4a	Are there any <u>contract documents</u> provided to allow and promote the <u>use of recycled aggregates</u> where appropriate?		\boxtimes				
E4b	Are the <u>C&D materials</u> sorted and recycled on-site?		\boxtimes				
E5a	Is the <u>durable formwork</u> or <u>plastic facing</u> for construction works used?		\boxtimes				
E5b	Do the wooden hoardings avoid to be used?		\boxtimes				
E5c	Is <u>metal hoarding</u> used to enhance the possibility of recycling?		\boxtimes				
E6a	Are the concrete and masonry used as general fill?		\boxtimes				
E6b	Are the steel reinforcement bars used by scrap steel mills?		\boxtimes				
E6c	Is the <u>segregation</u> and <u>storage</u> of C&D wastes undertaken in designated area?		\boxtimes				
E6d	Does the use of reusable steel formwork maximise?		\boxtimes				
E7a	Are the temporary stockpiles maintained regularly?		\boxtimes				
E7b	Is the excavated fill material reused for backfilling and reinstatement?		\boxtimes				
E8a	Are the excavated slope , stockpile material and bund walls covered by tarpaulin?		\boxtimes				
E8b	Are covering trucks or transporting wastes in enclosed containers when transportation of waste?		\boxtimes				
E8c	Are <u>waste storage area</u> properly cleaned and do not cause windblown litter and dust nuisance?		\boxtimes				
E9	Is <u>hydroseeding</u> of the topsoil on the <u>stockpile</u> implemented to improve visual appearance and prevent soil erosion?		\boxtimes				
E10	Is the 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 implemented?		\boxtimes				

E11	Are the <u>training</u> of <u>site personnel</u> for cleanliness, proper waste management procedures including chemical waste handling, and waste reduction, reuse and recycling concept implemented?						
E12	Are the <u>regular cleaning</u> and <u>maintenance</u> <u>programme</u> for drainage systems, sumps, oil interceptors?		\boxtimes				
E13a	Are wood , steel and other metals separated for re- use and/or recycling?		\boxtimes				
E13b	Do the excavated materials appear contaminated?			\boxtimes			
E13c	If suspected contaminated, appropriate procedures followed?	\boxtimes			N/A		
E14	Is the disposal of C&D materials avoided onto any sensitive locations e.g. agricultural lands etc.?		\boxtimes				
E15	Are the public fill and C&D waste segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal?						
Chemi	ical Waste / Waste Oil						
E16	Are <u>chemicals</u> and <u>waste oil</u> recycled or disposed properly?						
Chemi	ical Packaging						
E17a	Have the containers a capacity of <450 L unless the specification has been approved by EPD?				N/A		
E17b	Are the <u>containers</u> (holding, resistant to corrosion, maintained in a good condition, and securely closed) used for <u>storage of chemical wastes</u> ?						
Chemi	Chemical Labelling						
E18	Is chemical waste or waste oil <u>stored</u> and <u>labelled</u> in <u>English and Chinese</u> properly in designated area? Capacity of Dimensions of Label Container < 50L No less than 90 x 100mm 50 to 450L No less than 120 x 150mm > 450L No less than 180 x 200mm						
<u>Chemi</u>	Chemical Waste / Fuel Storage Area						
E19a	Are the <u>storage area</u> are clearly labelled and separated (if needed)?	\boxtimes			N/O		
E19b	Are the <u>storage area</u> enclosed <u>3 sides by walls</u> / <u>fence of ≥2m tall</u> and bounded with adequate bund capacity (>110% of largest container) or do the storage area allow <u>storage of 20% of total volume</u> <u>of waste</u> ?				N/O		
E19c	Do the storage areas have adequate ventilation and be covered to prevent rainfall entering and reduce heat from sunlight?	\square			N/O		
E19d	Are the <u>fuel tanks</u> and <u>chemical storage areas</u> provided with locks and sited on sealed areas?	\boxtimes			N/O		
E20	Is chemical waste collected by <u>licensed waste</u> <u>collectors</u> and disposed of at <u>licensed facility</u> eg. Chemical Waste Treatment Centre?		\boxtimes				

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Recor	<u>ds</u>		
E21	Is a licensed waste hauler used for waste collection?	X	
E22	Are the records of quantities of wastes generated,		
	recycled and disposed properly kept?		
E23	For the demolition material / waste, is the number of		
	loads for each day recorded as appropriate?		

(Construction Phase)

Environmental Site Inspection Checklist (Rev. 3)

F	Landfill Gas (LFG)	N/A or Not Observed	Yes	No	Remarks / Photo
Withir	NENT Landfill Extension				
F1	Are <u>special LFG precautions</u> taken to avoid potential hazards of LFG exposure (ignition, explosion, asphyxiation, toxicity)?	\boxtimes			N/O
F2	Are prominent safety warning signs erected on- site to alert all personnel and visitors of LFG hazards during excavation works.?		\boxtimes		
F3	Is no smoking or burning permitted on-site?	\boxtimes			N/O
F4	Are prominent <u>'No smoking'</u> and <u>'No Naked</u> <u>Flames' signs</u> erected on-site?	\boxtimes			N/O
F5	Is no worker allowed to <u>work alone</u> at any time in excavated trenches or confined areas on-site?		\times		
F6	Is adequate <u>fire fighting equipment</u> provided on- site?		\boxtimes		
F7	Are <u>construction equipment</u> equipped with vertical exhaust at least 0.6m above ground installed with spark arrestors?		\boxtimes		
F8	Are <u>electrical motors</u> and <u>extension cords</u> explosion-proof and intrinsically safe for use on- site?	\boxtimes			N/O
F9	Is 'Permit to Work' system implemented?		\boxtimes		
F10	Are <u>welding</u> , <u>flame-cutting</u> or <u>other hot works</u> conducted only under 'Permit to Work' system following clear safety requirements, gas monitoring procedures and presence of qualified persons to supervise the works?		\boxtimes		
F11a	For piping assembly or conduit construction , are all valves and seals closed immediately after installation?	\boxtimes			N/A
F11b	Are the <u>pipe ends</u> sealed on one side during installation if installation of large diameter pipes (diameter > 600mm) is required?	\boxtimes			N/A
F11c	Is <u>forced ventilation</u> implemented prior to operation of installed pipeline?	\boxtimes			N/A
F11d	Is <u>forced ventilation</u> implemented for <u>works</u> inside trenches deeper than 1m?	\boxtimes			N/A
F12	Is frequency and location of <u>LFG monitoring</u> within excavation area determined prior to commencement of works? *LFG monitoring in excavations should be conducted at < 10mm from exposed ground surface.		\boxtimes		
F13	For excavation works, Is LFG monitoring 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?		\boxtimes		

(Construction Phase)

F14	Are <u>LFG monitoring</u> conducted periodically when any cracks on ground level encountered on-site?		\boxtimes	
	*Appropriate action should be taken in accordance with the action plan in Table 7.6 of EIA Report.			
F15a	Are <u>LFG precautionary measures</u> involved in <u>excavation</u> and <u>piping works</u> provided in accordance with LFG Guidance Note and included in Safety Plan of construction phase?			
F15b	Are <u>temporary offices</u> or <u>buildings</u> located where free LFG has been proven or raised clear of ground at a separation distance of at least 500mm?			
F16	Is a <u>Safety Officer trained</u> in the use of gas detection equipment and LFG- related hazards 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%			
F17a	Periodically during groundwork construction, Is the works area 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.			
F17b	Is routine monitoring carried out in all excavations, manholes, created by temporary storage of building materials on-site?		\square	
F17c	Are all measurements in excavations made with monitoring tube located < 10mm from exposed ground surface?		\square	
F18	 For excavations > 1m, are measurements 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. 			
F19	 For excavations 300mm to 1m, are measurements conducted? Directly after excavation has been completed; and Derived is all while the excavation exception exception exception. 			
F20	 Periodic all whilst excavation remains open. For excavations < 300mm, are monitoring omitted at the discretion of Safety Officer or appropriately qualified person? 			
		1		

(Construction Phase)

G	Landscape and Visual Impacts	N/A or Not Observed	Yes	No	Remarks / Photo
G1	Is the work site confined within site boundaries?		\square		
G2	Is damage to surrounding areas avoided ?		\boxtimes		
G3	Are the protective fencing erected along or beyond the perimeter of the <u>tree protection zone</u> of each individual tree?		\boxtimes		
Advar	nced screening tree planting				
G4a	Is early planting using fast growing plants and tall shrubs at <u>strategic locations</u> within site implemented?		\square		
G4b	Are the roadside planter and shrub planting implemented in front of Cheung Sha Temple ?		\boxtimes		
Bound	dary Green Belt planting				
G5	Are the <u>fast growing</u> and <u>fire-resistant plant</u> <u>species</u> planted around the site perimeter?		\boxtimes		
Temp	orary landscape treatment as green surface cover				
G6	Are grass hydroseeding or synthetic covering material of green colour used as a temporary slope <u>cover</u> ?		\square		
Existi	ng tree preservation				
G7	Are <u>existing</u> and <u>affected tree</u> which identified as ecological significant preserved whenever possible?				

Н	Ecology	N/A or Not Observed	Yes	No	Remarks / Photo
H1	Is transplantation of the important plant species implemented? Is post-transplantation maintained and monitored regularly?		\boxtimes		

I	Environmental Complaint	N/A or Not Observed	Yes	No	Remarks / Photo
11	Environmental Complaint received during this week?			\mathbb{X}	
J	General Housekeeping / Others	N/A or Not Observed	Yes	No	Remarks / Photo
J1	Are the defined boundaries of working areas identified to prevent loss of vegetation		\boxtimes		
J2	Are the portable toilets maintained in a state, which will not deter the workers from utilizing these portable toilets?		\boxtimes		

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Environmental Site Inspection Checklist (Rev. 3)

Fo	llow up action for previous Site Inspection:
1.	14 October 2023 Observation 1 - The loaded dump truck was covered by impervious sheet.
2.	20 October 2023 Observation 1 - The accumulated of waste in waste skip at portion A was removed.
3.	20 October 2023 Observation 3 - The slope surface at SBA was covered by imprevious sheets properly.
0.	
Ob	servation(s):
N/C	
Co	rrective Actions – Mitigation Measures Implemented or Proposed (if any):
The	e contractor has been reminded that water spraying shall be provided regularly for dust control.

Report No. 0078-20231127

Environmental Site Inspection Checklist (Rev. 3)

(Construction Phase)

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:	Ą.	1	Q.	Ho.
Name:	Joan Lo	l inc ^{ato}	Matt Choy/Kristy Wong	Sylvia Ho
Date:	27 November 2023	. 1	27 November 2023	27 November 2023

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PART I Follow-up status of the previous site inspection

Observation and Recommendation	Follow-up status
Observation and Recommendation 6 November 2023 Observation 1	Follow-up status Waiting for Contractor Input
The outside surrounding of the scaffolding without dust screen, sheeting or netting was found at the Portion D.	

Environmental Site Inspection Checklist (Rev. 3)



Environmental Site Inspection Checklist (Rev. 3)



Observation and Recommendation

Follow-up status

14 November 2023 Observation 1



The loaded dump truck without covering impervious sheet is found at the assess road between Portion A and E4. The contractor has been recommended to ensure all of loaded dump trucks should be covered by impervious sheeting.



The loaded dump truck was covered by impervious sheet.

20 November 2023 Observation 1



The overloading of accumulated waste is found at portion A. The waste should be stored in waste skip properly and clean regularly.



The accumulated of waste in waste skip at portion A was removed.



PART II Observation and recommendation identified during the environmental site inspection

Observation and Recommendation	Follow-up status
N/O	N/O

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





Existing channel at Protion E3-1	Sedimentation basin near Protion E4

Appendix K Environmental Mitigation Implementation Schedule (EMIS)

			ion Schedule (EMIS) Construction Phase						
EIA Ref.	EM&A Log Ref.	Weekly Site Inspection Item	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status	
Air Qualit								-	
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	Contractor	Entire NENT Landfill	To control the dust impact to within the criteria of EIA	# (Refer to Appendix J6 Nov 2023 Weekly site inspection Observation 1)	
		B4, B15 & B18	Dust emission from construction vehicle movement is confined within the worksites area.	control the dust impact at the nearby sensitive receivers to		Extension site	Report (Register No. AEIAR- 111/2007)	V	
		B11 – B12	Watering facilities will be provided at every designated vehicular exit point.	within the relevant criteria.					✓ Vehicle washing facilities provided at vehicula exit point in Portion A, B1-2, D, E3-1 & E4
		-	Good site practice is recommended during construction phase.	_				×	
Construct	tion Noise			•		•	•		
S4	S4.9	C1 C2	 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 	Control construction airborne noise by means of good site practices	Contractor	Entire construction site	Noise Control Ordinance	✓	
			work periods or should be throttled down to a minimum;	practices				,	
		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;					\checkmark	
		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;					Ý	
		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.					\checkmark	
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	\checkmark	
Construct	tion Runoff								
S5.8.1	S5.2.1	2.1 D1 Construction on Site Runoff (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.	from site surface, drainage channel, stockpiles, wheel	Contractor	Entire Construction site	ProPECC PN 1/94 Water Pollution Control Ordinance	(a) The perimeter cut-off drains are establishing in progress.		
							 (b) # (Refer to Appendix J 6 Nov 2023 Weekly site inspectio 		
			washing facilities, etc to minimize water				Observation 2)		
		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. 	quality during construction stage				(a) N/A (b) N/A	
		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.					Ý	
		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) N/A (b) \checkmark (c) \checkmark	
emarks:		Compliance of m	nitigation measure						
			on was made during site audit but improved/rectified by the contractor						
•			n was made during site audit but not yet improved/rectified by the contractor.						
			t this stage were conducted in the reporting period.						

t or measures to	Status
st impact to of EIA	# (Refer to Appendix J 6 Nov 2023 Weekly site inspection Observation 1)
No. AEIAR-	
	\checkmark
	Vehicle washing facilities provided at vehicular exit point in Portion A, B1-2, D, E3-1 & E4
	V
dinance	\checkmark
	\checkmark
	V
	N/A
	×
	Ý
dinance & its	\checkmark
4	(a) The perimeter cut-off drains are establishing in

	EM&A Log Ref	Weekly Site Inspection	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main	Who to implement the	Location of the measures	What requirement or standards for the measures to achieve?	Status
		Item		Concerns to address	measures?			
	tion Runoff (,				1 -		
5.8.1	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 all traffic areas and access roads protected by coarse stone ballast. (b) An additional advantage accruing from the use of crushed stone is the positive traction gained during prolonged periods of inclement weather and the reduction of surface sheet flows. 	Control construction runoff and erosion from site surface, drainage channel,	Contractor	Entire Construction site	ProPECC PN 1/94 DSD Technical Circular TC01/2017	(a) N/A (b) N/A
		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. 		vashing facilities, etc o minimize water juality during		Water Pollution Control Ordinance	(a) \checkmark (b) \checkmark (c) \checkmark
		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) N/A (b) N/A
		D8	• Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50 m3 should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.					N/A
		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. 					Ý
		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. 					$\begin{array}{c c} (a) & \checkmark \\ (b) & \checkmark \\ (c) & \checkmark \\ (d) & \checkmark \\ (c) & \checkmark \end{array}$
		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. 					
		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. 					\checkmark
		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. 					N/A
		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. 					N/A

√ *

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.

EIA	EM&A	Weekly	Recommended Precautionary/Mitigation Measures	Objectives of the	Who to	Location of the	What requirement o		
Ref.	Log Ref	Site	(to be implemented when the trigger level is exceeded, where necessary)	Recommended	implement	measures	standards for the me		
		Inspection		Measures & Main	the		achieve?		
Canatan	tion Dunoff	Item (Contid)		Concerns to address	measures?				
S5.8.1	stion Runoff	D19	Sewage Effluent from Workforce	Control sewage	Contractor	On-site	ProPECC PN 1/94		
00.0.1	00.2.1	013	(a) Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage	effluent arising from	Contractor	sanitary	1101 2001 10 1/94		
			generated by the workforce. (b) A licensed contractor should be employed to provide appropriate and adequate	the sanitary facilities		facilities	DSD Technical Circ		
				portable toilets and be responsible for appropriate disposal and maintenance.	provided for the on-			TC01/2017	
		D20	Notices will be posted at conspicuous locations to remind the workers not to discharge any sewage or	site construction					
			wastewater into the nearby environment during the construction phase of the Project.	workforce			Water Pollution Con		
		-	• 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.				Ordinance Waste Disposal Ord		
S5.8.1	S5.2.1	D21	Accidental Spillage of Chemical	Control of chemical	Contractor	Service	ProPECC PN 1/94		
			• (a) Any service workshop and maintenance facilities shall be located within a bunded area, and sumps and oil	leakage		workshop and			
			interceptors shall be provided. (b) Maintenance of equipment involving activities with potential for leakage and			maintenance	Water Pollution Con		
			spillage will only be undertaken within the areas.			facilities	Ordinance		
							Waste Disposal Ord		
Frosion	Control Mea	sures					Waste Disposal Olu		
S5.8.2	S5.2.2	-	Erosion Control /Measures	Erosion control	Contractor	Drainage	ProPECC PN 1/94		
			a. Preserve Natural Vegetation			system			
			This Best Management Practices will involve preserving natural vegetation to the greatest extent possible				Water Pollution Con		
			during the construction process. and after construction where appropriate. Maintaining natural vegetation is				Ordinance		
			the most effective and inexpensive form of erosion prevention control.						
		-	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.						
		-	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.						
			f. Sod Establishes permanent turf for immediate erosion protection and stabilizes rainageways.						
			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 n	nitigation measure						
			on was made during site audit but improved/rectified by the contractor						
ŧ		Recommendation	on was made during site audit but not yet 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.

t or measures to	Status
4	\checkmark
ircular	
Control	N/A
Ordinance	\checkmark
4	(a) N/A
Control	(b) N/A
Ordinance	
4	To be implemented
4	To be implemented
Control	
	✓
	\checkmark
	To be implemented
	To be implemented
	To be implemented
	To be implemented

A ef.	EM&A Log Ref	Weekly Site Inspection Item	ion Schedule (EMIS) Construction Phase 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
sion C	ontrol Meas	sures (Cont'd		•			·	•
5.8.2	\$5.2.2	-	 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. 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. 	Erosion control	Contractor	Drainage system	ProPECC PN 1/94 Water Pollution Control Ordinance	 ✓ ✓
		age System						
5.8.2	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) \checkmark (b) \checkmark (c) \checkmark (d) \checkmark
		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
laata Ma		-	• 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
aste ivia	nagement WM1	-	C&D Materials	Good site practice to	Contractor	Entire	Waste Disposal Ordinance	-1
0	VINT		 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. 	generation and reuse/recycle all C&D on-site as far as	Contractor	construction site	ETWB TC(W) No. 19/2005 DEVB TC(W) No. 6/2010	\checkmark
		-	 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.					\checkmark
		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) \checkmark (b) \checkmark (c) \checkmark (d) \checkmark

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.

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

A ef.	EM&A Log Ref nagement (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	
	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	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) \checkmark (b) \checkmark (c) \checkmark	
		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.					N/A	
		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.					Ý	
		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.					\checkmark	
		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.					V	
	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	al of chemical generated on- minimise the	ontractor Entire construction site	Waste Disposal (Chemical Waste) General Regulation Code of Practice on the	×	
		-	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	on human health and environment			Packaging, Labelling and Storage of Chemical Waste	V	
		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.	_					Ý
		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.					Ý	

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.

\ : -	EM&A	Weekly	Recommended Precautionary/Mitigation Measures	Objectives of the	Who to	Location of the	What requirement or	Status
	Log Ref	Site	(to be implemented when the trigger level is exceeded, where necessary)	Recommended	implement	measures	standards for the measures to	
		Inspection		Measures & Main	the		achieve?	
<u>~ M</u>	anagement	Item (Cont'd)		Concerns to address	measures?			
	WM3	E1	General Refuse	Minimise generation	Contractor	Entire	Waste Disposal Ordinance	# (Refer to Appendix J
			General refuse generated on-site should be properly stored in enclosed bins or compaction units separately	of general refuse to	Contractor	construction		20 Nov 2023 Weekly site inspection
			from construction and chemical wastes.	avoid odour, pest and visual nuisance		site		Observation 2)
		E2	• (a) All recyclable materials (separated from the general waste) should be stored on-site in appropriate					(a) √
			containers with cover prior to collection by a local recycler for subsequent reuse and recycling. Residual, non-					(b) # (Refer to Appendix J
			recyclable, general waste should be stored in appropriate containers to avoid odour. (b)(c)(d) Regular collection					20 Nov 2023 Weekly site inspection
			should be arranged by an approved waste collector in purpose-built vehicles that minimise environmental					Observation 2)
			impacts during transportation					(c) 🔨
								(d) 🔨
		-	• Reputable waste collector should be employed by the Contractor to remove general refuse from the site,					\checkmark
			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					\checkmark
			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					\checkmark
			waste paper recycling programme should be considered by the Contractor, including waste paper, aluminium					
			cans, plastic bottles, waste batteries, etc.					
	NT Landfill	Extension						
	LFG1	F1	Special LFG precautions should be taken due to close proximity of NENT landfill extension site to existing landfill	To minimise the risk	Contractor	Entire	Landfill Gas Hazard	N/A
67			to avoid potential hazards of LFG exposure (ignition, explosion, asphyxiation, toxicity).	of LFG hazards to	Contractor	construction	Assessment Guidance Note	
	LFG2	F2	Prominent safety warning signs should be erected on-site to alert all personnel and visitors of LFG hazards during	personnel in		site	(EPD/TR8/97)	Ý
	_		excavation works.	construction site			,	v
	LFG3	F3	No smoking or burning should be permitted on-site.				F&IU (Confined Spaces) Regulations	\checkmark
	LFG4	F4	Prominent 'No smoking' and 'No Naked Flames' signs should be erected on-site.					\checkmark
	LFG5	F5	No worker should be allowed to work alone at any time in excavated trenches or confined areas on-site.				Onde of Departing on Opfatu	\checkmark
	LFG6	F6	Adequate fire fighting equipment should be provided on-site.				Code of Practice on Safety and Health at Work in	\checkmark
	LFG7	F7	Construction equipment should be equipped with vertical exhaust at least 0.6m above ground installed with spark				Confined Spaces	· ✓
			arrestors.					,
	LFG8	F8	Electrical motors and extension cords should be explosion-proof and intrinsically safe for use on-site.					\checkmark
	LFG9	F9	'Permit to Work' system should be implemented.					\checkmark
	LFG10	F10	Welding, flame-cutting or other hot works should be conducted only under 'Permit to Work' system following clear					\checkmark
			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					(a) N/A
			to avoid accumulation and migration of LFG. (b) If installation of large diameter pipes (diameter >600mm) is					(b) N/A
			required, the pipe ends should be sealed on one side during installation. (c) Forced ventilation is required prior to					(c) N/A
			operation of installed pipeline. (d) Forced ventilation should also be required for works inside trenches deeper than					(d) N/A
		E10	1m. Erroruppy and location of LEC monitoring within execution area should be determined prior to commencement of					
	LFG12	LIZ	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 at no more than round surface prior to excavation, (2)	•				√
		110	immediately before workers entering excavations, (3) at the beginning of each half-day work, and (4) periodically					v
			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	1				√
			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					(a) N/A
			LFG Guidance Note and included in Safety Plan of construction phase. (b) Temporary offices or buildings should					(b) N/A
			be located where free LFG has been proven or raised clear of ground at a separation distance of at least 500mm.	1				

√ 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.

ard	N/A
lance Note	
	\checkmark
spaces)	\checkmark
	✓ ✓ ✓
on Safety	• •
rk in	
	\checkmark
	√
	\checkmark
	\checkmark
	(a) N/A
	(b) N/A
	(c) N/A
	(d) N/A
	\checkmark
	×/
	v
	×
	(a) N/A
	(b) N/A

Environme	ental Mitiga	tion Implementati	on Schedule (EMIS) Construction Phase				
EIA	EM&A	Weekly Site	Recommended Precautionary/Mitigation Measures	Objectives of the	Who to	Location of the	What requirement o
Ref.	Log	Inspection	(to be implemented when the trigger level is exceeded, where necessary)	Recommended	implement	measures	standards for the me
	Ref	Item		Measures & Main	the		achieve?
				Concerns to address	measures?		1

	EM&A	Weekly Site	Recommended Precautionary/Mitigation Measures	Objectives of the Recommended	Who to implement	Location of the	What requirement or standards for the measures to	Status
	Log Ref	Inspection Item	(to be implemented when the trigger level is exceeded, where necessary)	Measures & Main	the	measures	achieve?	
	I/CI	item		Concerns to address	measures?		achieve:	
(Сс	ont'd)			Concerns to address	measures:			
````	,	fill Extension						
	LFG16		For large development such as NENT landfill extension, a Safety Officer trained in the use of gas detection	To minimise the risk	Contractor	Entire	Landfill Gas Hazard	×
	21 0 10		equipment and LFG- related hazards should be present on-site throughout the groundwork phase. The Safety	of LFG hazards to	Contractor	construction site	Assessment Guidance Note	•
			Officer should be provided with an intrinsically safe portable instrument appropriately calibrated and capable of	personnel in			(EPD/TR8/97)	
			measuring the following gases:	construction site			()	
		•CH ₄ : 0-100% and LEL: 0-100%/v				F&IU (Confined Spaces)		
			•CO ₂ : 0-100%				Regulations	
			•O ₂ : 0-21%					
Ī	LFG17	F17					Code of Practice on Safety	(a) N/A
		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)				and Health at Work in	(b) N/A	
						Confined Spaces	(c) N/A	
			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	an				
-			10mm from exposed ground surface.	-				
	LFG18		For excavations deeper than 1m, measurements should be conducted:					$\checkmark$
			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     Derived and the working day while two loss are in excernation					
		<b>F</b> 10	Periodically throughout the working day whilst workers are in excavation. For excavations between 300mm and 1m, measurements should be conducted:	-				
	LFG19	FI9	Directly after excavation has been completed; and					$\checkmark$
			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	-				<b>√</b>
	LI 020	120	qualified person.					Ŷ
sca	ine and Vis	sual Phases						
	LV1	G4	Advanced screening tree planting	To minimise the	Contractor	Entire	DEVB TC(W) No. 4/2020 -	$\checkmark$
			Early planting using fast growing trees and tall shrubs at strategic locations within site to block major view	impact on existing	Contractor	construction site		•
				vegetation retained				
			works.	by personnel in			DEVB TC(W)) No. 6/2015 -	
			Roadside planter and shrub planting design in front of Cheung Shan Temple.	construction			Maintenance of Vegetation	
	LV2	G5	Boundary Green Belt planting	To provide initiation			and Hard Landscape Features	To be implemented during operation pha
			Considerable planting belts proposed around the site perimeter and the construction of temporary soil bunds will	on permanent				
			screen the landfill operations to a certain degree. Fast growing and fire resistant plant species will be used.	landscape and visual			DEVB TC(W) No. 6/2011 -	
	LV3	G6	Temporary landscape treatment as green surface cover	mitigation measures			Maintenance of Man-made	$\checkmark$
			For certain areas where landfilling operations would have to be suspended temporarily for periods of years, simple				Slopes and Emergency Repair on Stability of Land	
			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	l .				
	LV4	G7	slope cover if applicable.	4				
	∟∨4	67	Existing tree preservation Transplant existing trees and vegetation, which are identified as ecologically significant in Ecological Impact					$\checkmark$
			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		1			
			apply whenever possible. A tree felling application should be submitted to DEVB-GLTMS and be approved before					
		1		1	1	1		
			any trees are felled or transplanted.					

# Recommendation was made during site audit but not yet improved/rectified by the contractor.

Not Applicable at this stage were conducted in the reporting period. N/A

1	North Eas	t new Terri	tories (INEINT) La	Indfill Extension				
	Environme	ental Mitiga	tion Implementat	ion Schedule (EMIS) Construction Phase				
	EIA	EM&A	Weekly Site	Recommended Precautionary/Mitigation Measures	Objectives of the	Who to	Location of the	What requirement o
	Ref.	Log	Inspection	(to be implemented when the trigger level is exceeded, where necessary)	Recommended	implement	measures	standards for the me
		Ref	Item		Measures & Main	the		achieve?
					Concerns to address	measures?		

				Concerns to address	measures?		
ogy							
eral	Protectio	on Measures:					
	E1	-	Restriction of construction activities to the work areas that would be clearly demarcated.	To minimise environmental	Contractor	Entire construction site	Practice Note for P Persons (ProPECC
	E2	-	Reinstatement of the work areas immediately after completion of the works.	impacts and therefore potential			Construction Site E (PN1/94)
Ī	E3	-	periods or should be throttled down to a minimum.		Code of Practice o Packaging, Labelli		
	E4	-			Storage of Chemic EPD (1992)		
Ī	E5	-	Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs.	-			ETWB TC(W)) No. Management of Co
Ī	E6	-	Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works.	-			and Demolition Ma
-	E7	-	Mobile plant should be sited as far away from NSRs as possible and practicable.				DEVB TC(W) No. 6
	E8	-	Material stockpiles, site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.	-			Ticket System for D Construction and D
Ī	E9	-	Use of "quiet" plant and working methods.				Materials
-	E10	-	Construction phase mitigation measures in the Practice Note for Professional Persons on Construction Site Drainage.				ETWB TC(W)No.19 Environmental Mar on Construction Sit
ľ	E11	-	Design and set up of the temporary on-site drainage system will be undertaken by the contractor prior to the commencement of construction.				
Ī	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.				
Ī	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.				
Ī	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				

*	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.

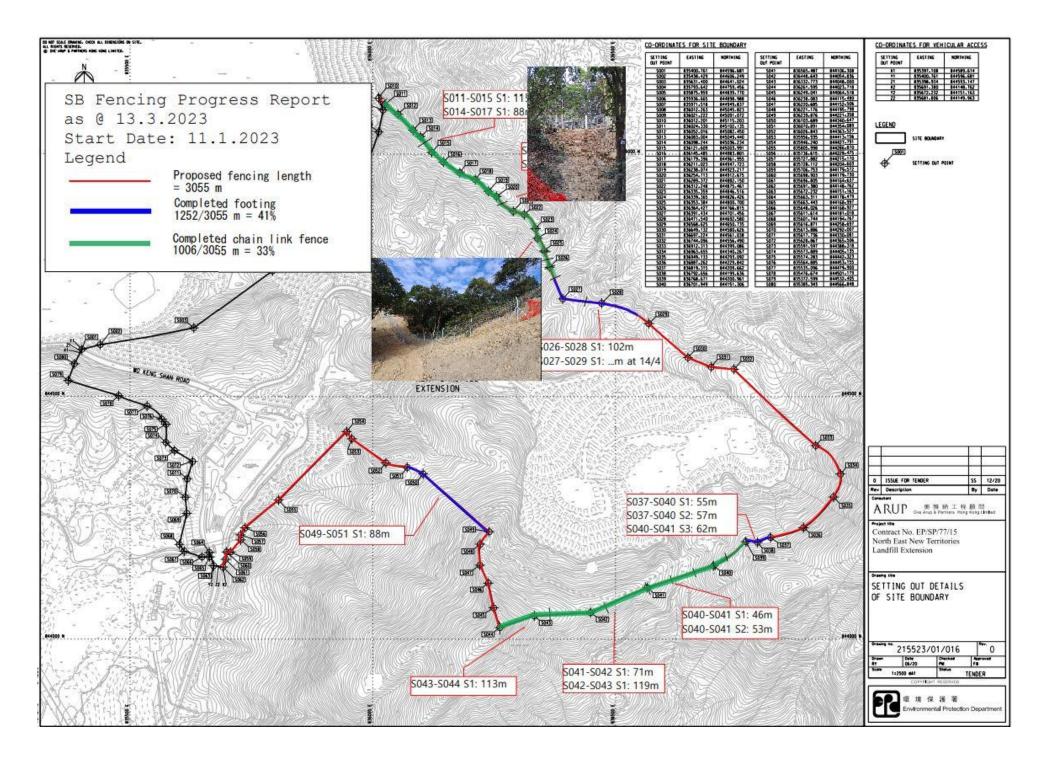
t or measures to	Status
Professional CC), Drainage	✓ ✓
on the Iling and ical Wastes,	✓ ✓
o. 33/2002 Construction laterial	✓ N/A
. 6/2010 Trip r Disposal of Demolition	<ul> <li>✓</li> <li>✓</li> </ul>
19/2005 anagement Sites	✓ ✓ ✓
	✓ N/A ✓
	N/A

# Appendix L Construction Site Activities

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

Remark: PYE is the Sub-contractor for this project

# Appendix M Mitigation Measures of Cultural Landscape Features



# Appendix N Detail Status of EP Submission

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

# Detail Status of Submissions required under the FEP & EP

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)
			1 st monitoring (29 Aug 2022)
			2 nd monitoring (28 Sep 2022)
			3 rd monitoring (28 Oct 2022)
			4 th monitoring (28 Oct 2022)
			5 th monitoring (29 Dec 2022)
			6 th monitoring (30 Jan 2023)
			7 th monitoring (24 Feb 2023)
			8 th monitoring (20 Mar 2023)
			9 th monitoring (19 Apr 2023)
			10 th monitoring (12 May 2023)
			11 th monitoring (7 Jun 2023)
			12 th monitoring (18 Jul 2023)
2.9	2.11	Submission of Detailed Landfill Gas Hazard Assessment Report	Submission Date (6 Oct 2022)
2.10	2.12	Submission of Waste Management Plan	Submission Date (30 Dec 2022)
3.2	3.2	Submission of Baseline Monitoring Report	Submission Date (30 Nov 2022)

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

# 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.	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 multipotential 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.	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 multipotential 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.	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 should be conducted by the contractor as soon as possible.	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 should be conducted by the contractor as soon as possible.	13 October 2023

Remarks:

1. "ET" equal to "Environmental Team"

2. "EPD-RNG" equal to "Environmental Protection Department-Regional Office (North)"

3. "TBC" equal to "To Be Confirm"

# **Environmental Enquiries Log**

Enquiry Re No.	f. 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)"

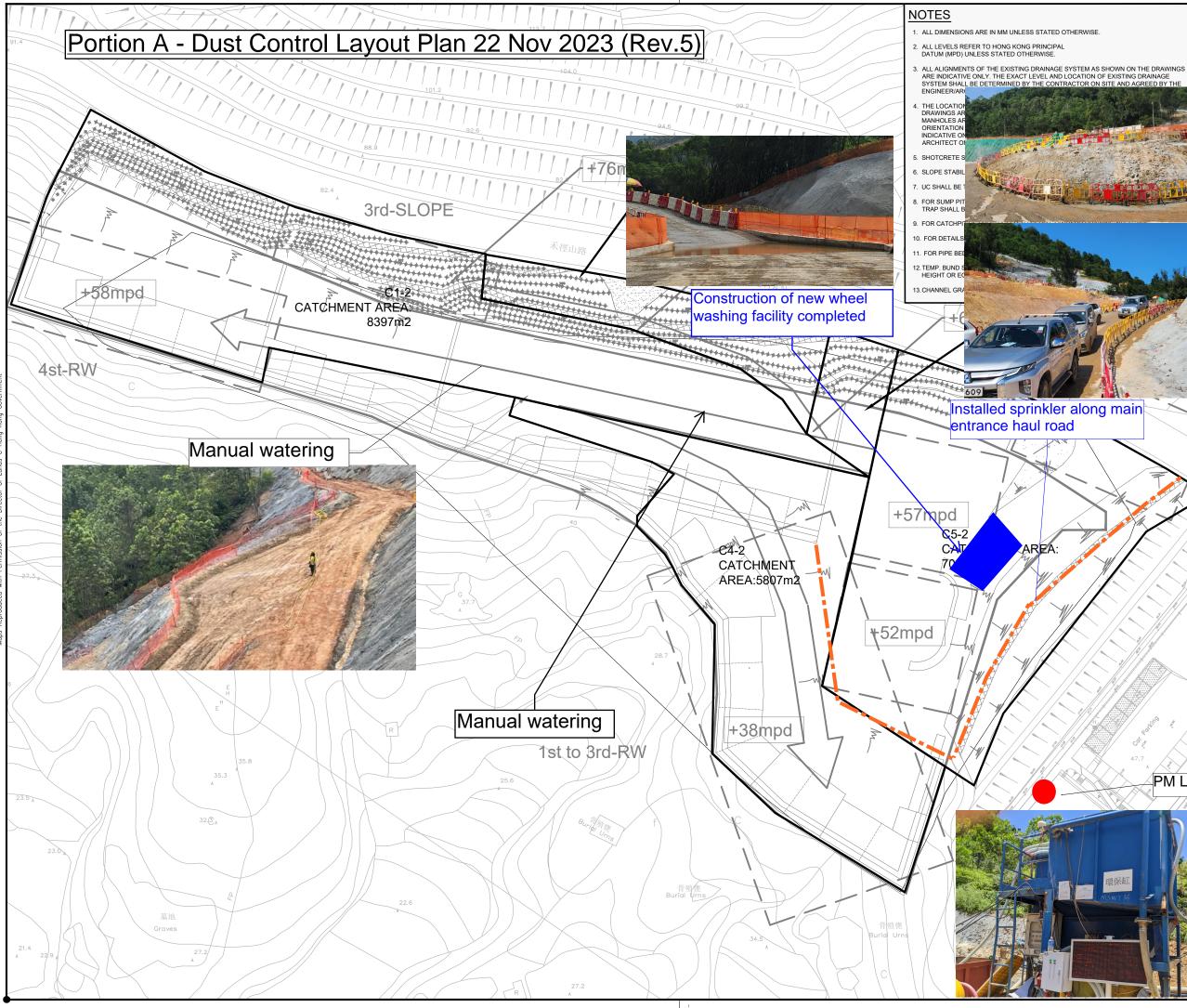
3. "NA" equal to "Not Applicable"

# **Cumulative Statistics on Complaints**

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

# Appendix P Implementation Status on Environmental Mitigation Measures

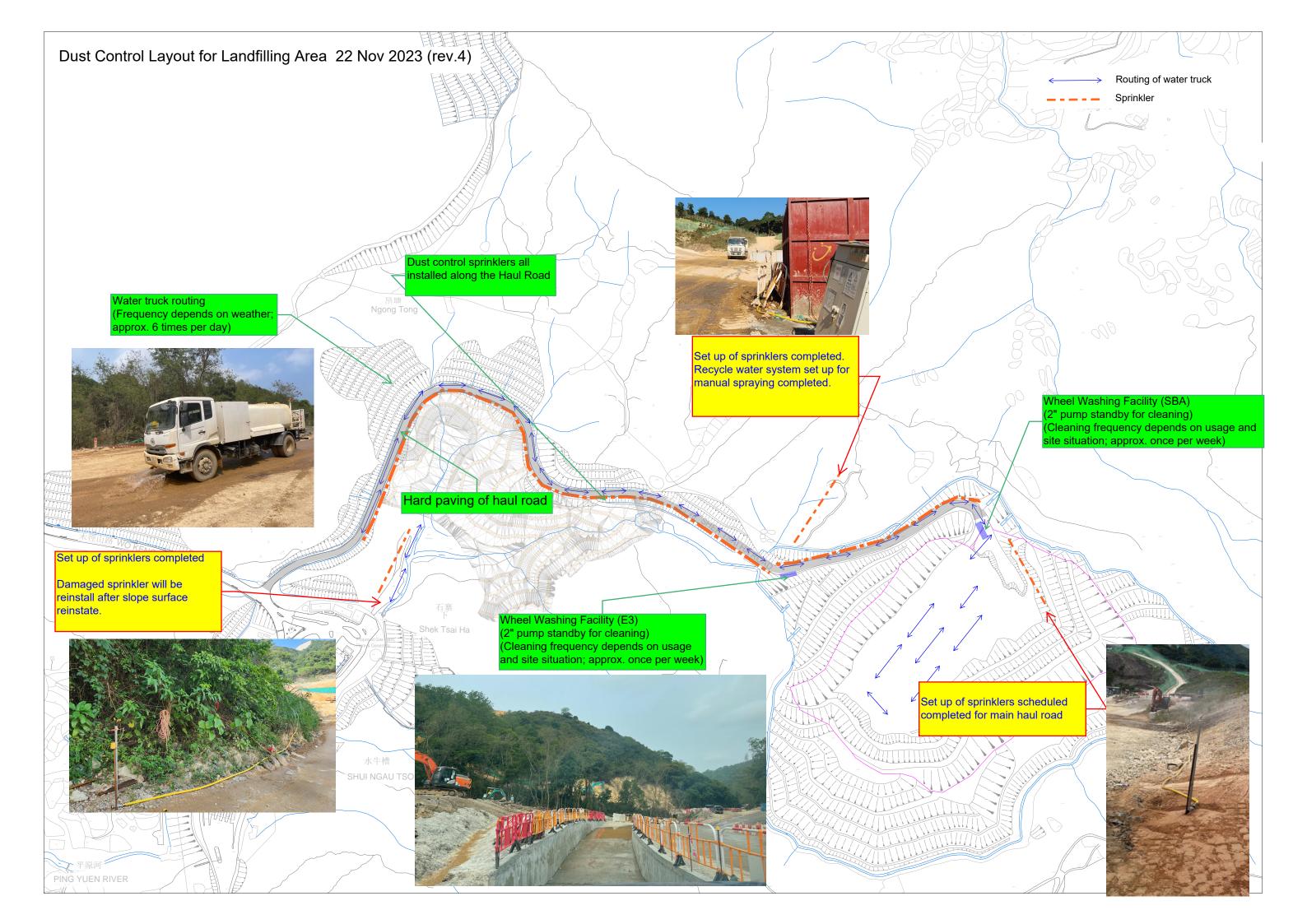
## **Dust Control**



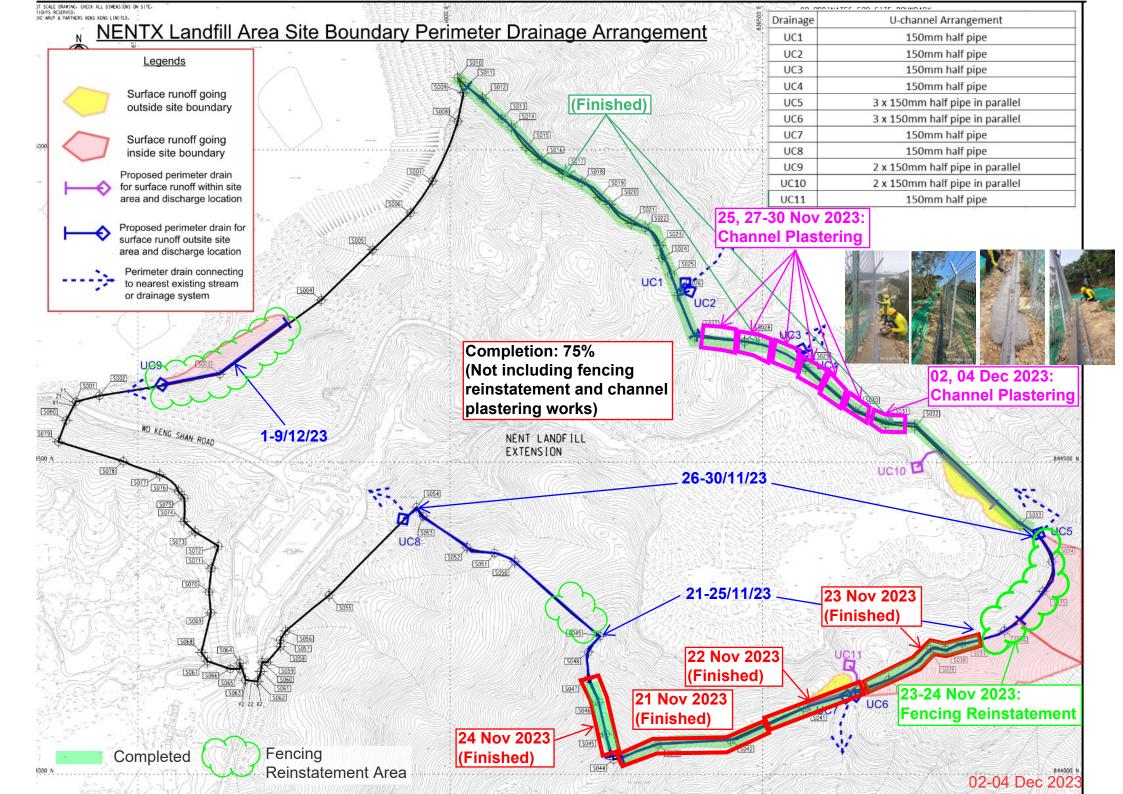
ENVIRONMENTAL PROTECTION DEPARTMENT SIGNED FOR ENVIRONMENTAL PROTECTION DEPARTMENT DATE: MEINHARDT INFRASTRUCTURE AND ENVIRONMENT LTD VERIFICATION BY INDEPENDENT CONSULTANTS GNED: FOR MEINHARDT INFRASTRUCTURE AND ENVIRONMENT LTI LEGEND 🗕 🗕 🗕 🗕 Sprinkler alignment 03 THIRD SUBMISSION ISSUED JT JAN 2023 1 02 SECOND SUBMISSION ISSUED CC NOV 2022 DSJS 01 FIRST SUBMISSION ISSUED CC JUN 2022 DSJS DO NOT SCALE DRAWINGS. ALL DIMENSIONS SHALL BE √ERIFIED ON SITE. ◯ EPD HONG KONG GOVERNMENT COPYRIGHT IN RESPECT HIS DRAWING / DOCUMENT IS OWNED BY THE EPD HONG ONG GOVERNMENT. NO REPRODUCTION OF THE DRAWING OCUMENT OR ANY PART BY WHATEVER MEANS IS PERMITTE WITHOUT THE PRIOR WRITTEN CONSENT OF THE EPD HONG ONG GOVERNMENT JT TL TL DSJS 19 JAN 2023 1:500 @ A3 CONTRACT EP/SP/77/15 NORTH EAST NEW TERRITORIES LANDFILL EXTENSION (NENTX) **Environmental Protection Department** The Government of the Hong Kong Special Administrative Region PM Level Sensor (in trial) 業 Paul Y. Engineering **ATKINS** 1ember of the SNC-Lavalin Gro wing Title Portion A **Dust Control Layout Plan** 

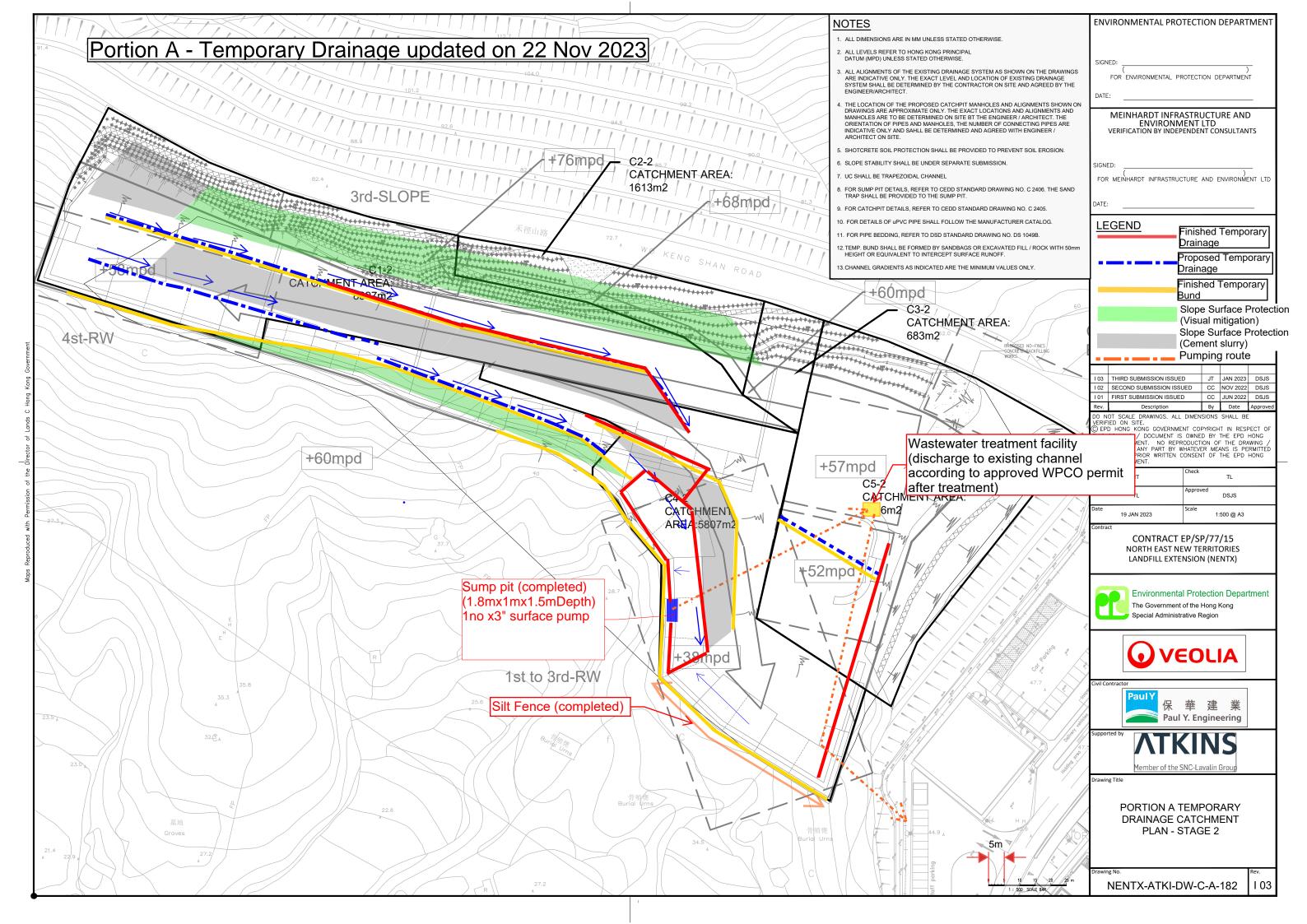
> Ing No. NENTX-ATKI-DW-C-A-182

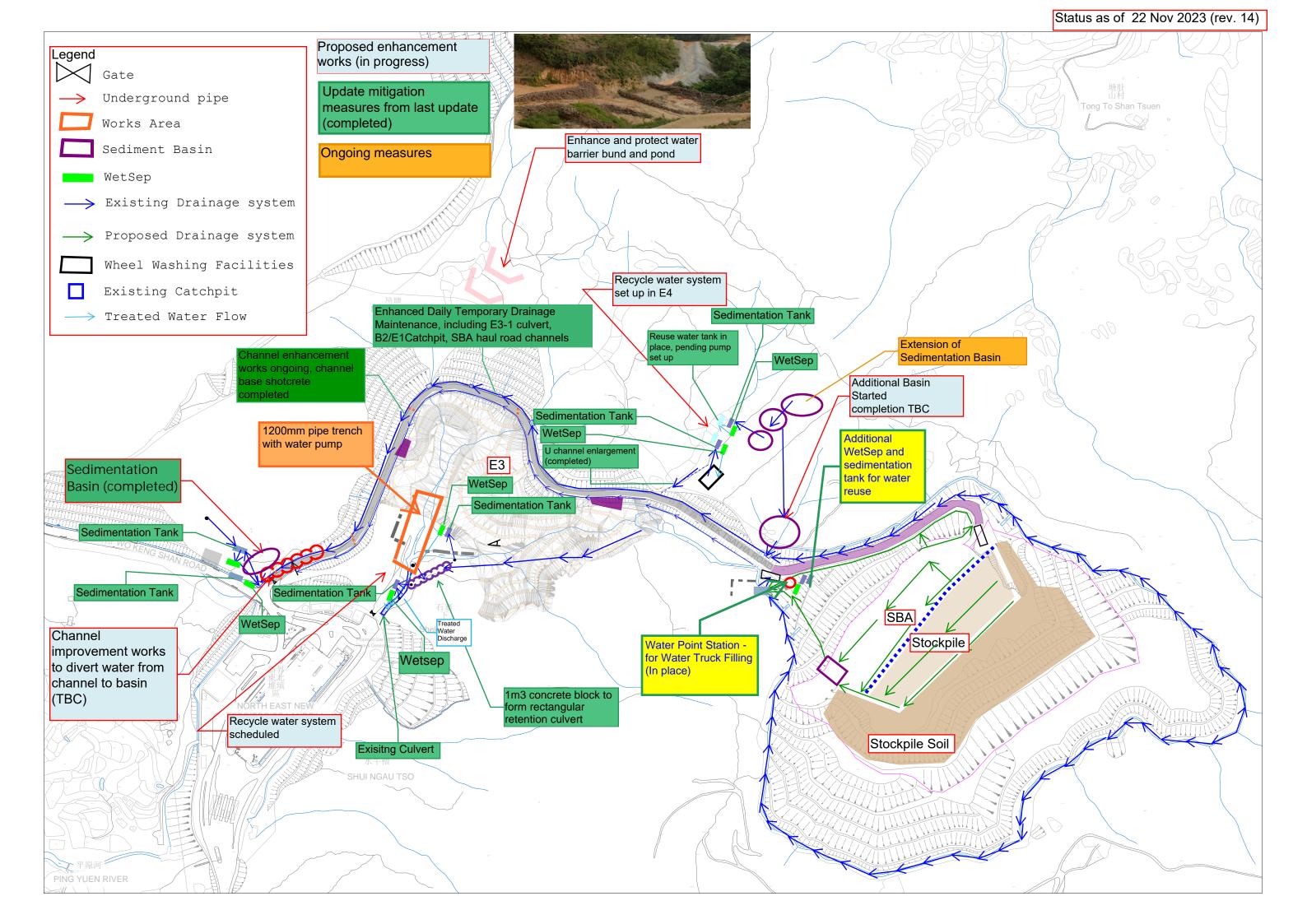
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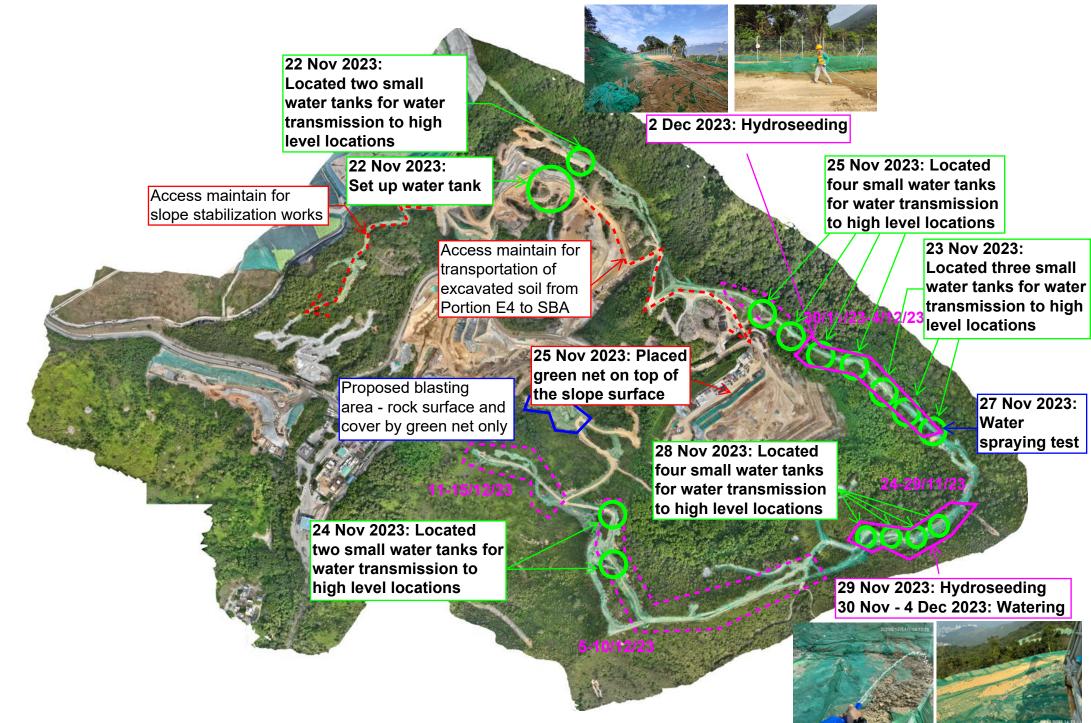
#### <u>Temporary Surface Water</u> Drainage System (TSWDS)





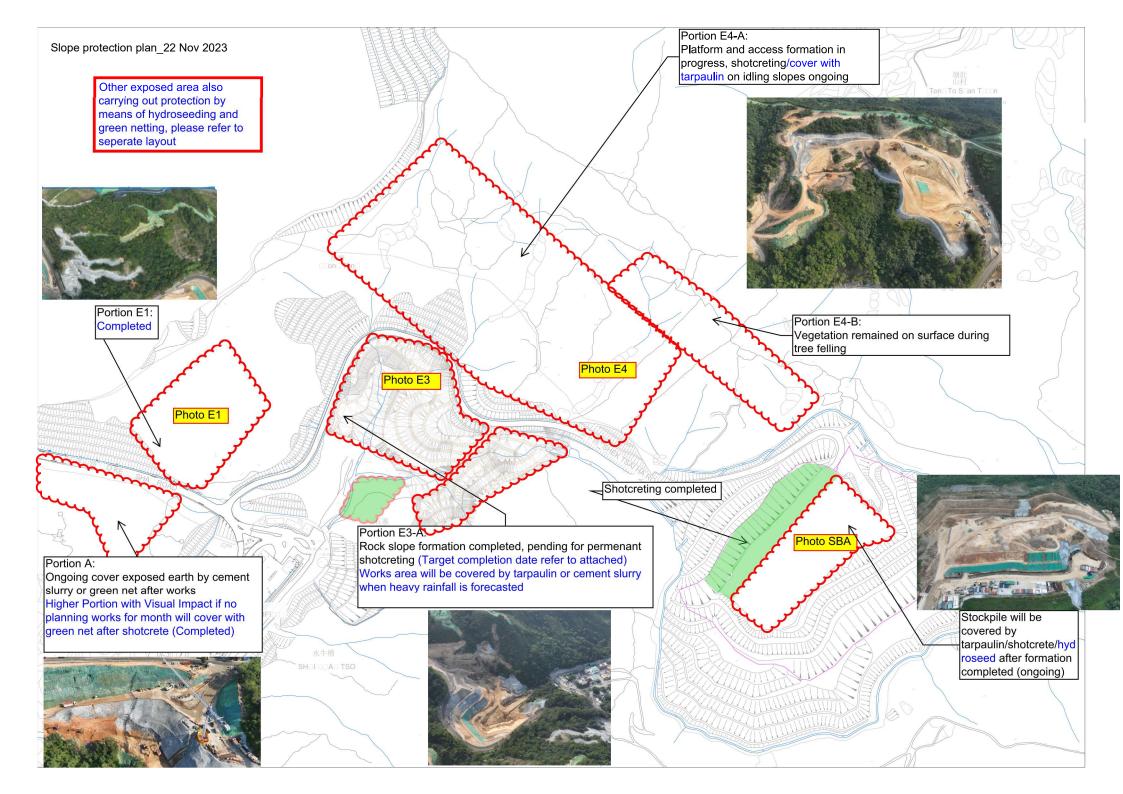


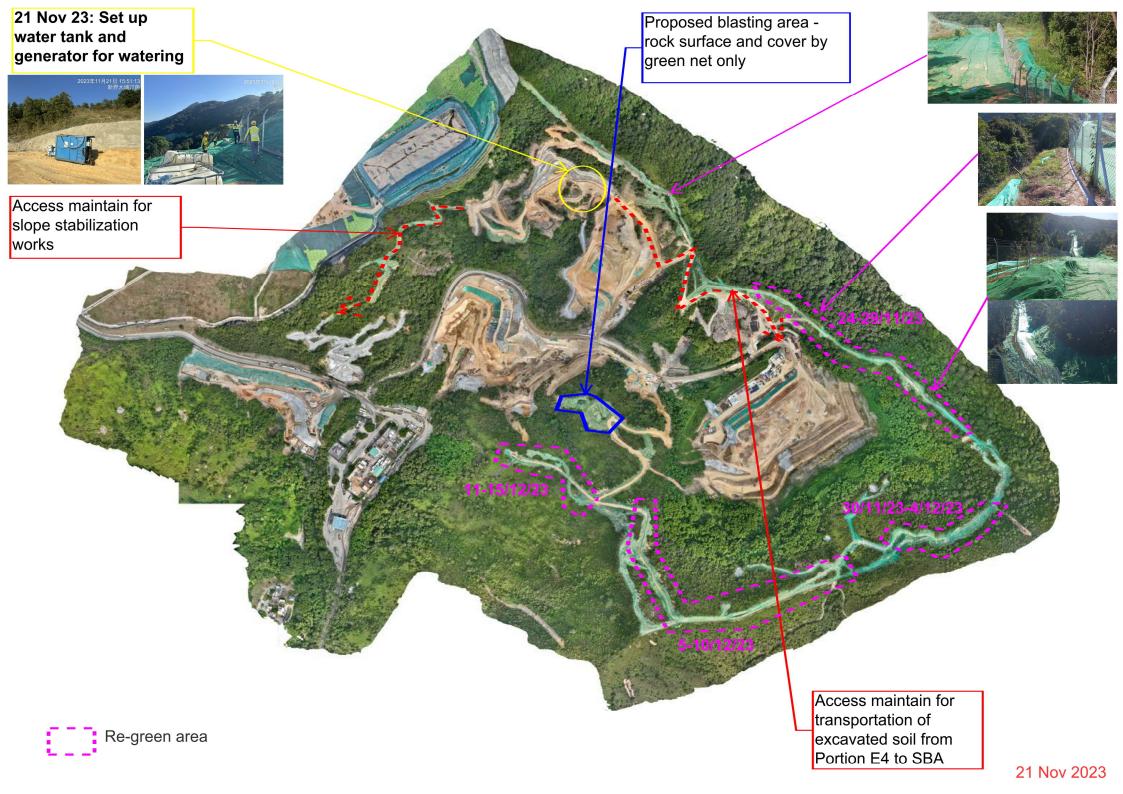
### <u>Hydroseeding & Green</u> <u>Netting</u>



Re-green area Re-greened area

# **Slope Surface Protection**





#### Prepared by:

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