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

Monthly Environmental Monitoring and Audit Report (No. 7) – June 2023





Our Ref.: CL/91823/0556-VES

Date: 13 July 2023

# By Email

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

Attn.: Mr. Colin Mitchell

Meinhardt Infrastructure and Environment Ltd

邁進基建環保工程顧問有限公司

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

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

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

Dear Sir

Re: Contract No. EP/SP/77/15

North-East New Territories Landfill Extension (NENTX)

Monthly Environmental Monitoring and Audit Report (No.7) - June 2023

I refer to Condition 3.3 under Environmental Permit No. EP-292/2007 and Further Environmental Permit No. FEP-01/292/2007, regarding the submission of a monthly Environmental Monitoring and Audit report. I hereby verify the captioned "Monthly Environmental Monitoring and Audit Report (No.7) – June 2023" dated 13 July 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

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



Ref: P521530-0000-REP-NN-0062

By Email

13 July 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.6) - May 2023

In accordance with the requirement specified in Condition 3.3 of Environmental Permit No. EP-292/2007 and Further Environmental Permit No. FEP-01/292/2007, we are pleased to submit the certified "Monthly Environmental Monitoring and Audit Report (No.7) – June 2023" dated 13 July 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.

1. Monthly Environmental Monitoring and Audit Report (No.7) – June 2023

CC.

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

# **Document Control Record**

# Document prepared by:

# **Aurecon Hong Kong Limited**

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

223 – 231 Wai Yip Street, Kwun Tong, Kowloon

Hong Kong S. A. R.

T +852 3664 6888

**F** +852 3664 6999

E <a href="mailto:hongkong@aurecongroup.com">hongkong@aurecongroup.com</a>

W aurecongroup.com

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Doc	Document control aurecon						
Report title		Monthly Environmental Monitoring and Audit Report (No. 7) – July 2023					
Document ID			Project number				
File path							
Clien	t	Veolia Environmental Services Hong Kong Limited					
Client contact			Client reference				
Rev	Date	Revision details/status	Author	Reviewer	Verifier (if required)	Approver	
0	7 July 2023	Submit to IEC	J Man	K.Chau		FL	
1	13 July 2023	Submit to IEC	J Man	K.Chau		FL	
Curre	Current revision 1						

Approval					
Reviewer's signature	De la companya della companya della companya de la companya della	Approver's signature	Tul		
Name	Keith Chau	Name	Fredrick Leong		
Title	Associate, Environmental	Title	Environmental Team Leader		

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

# **Appendix**

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

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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 7<sup>th</sup> Monthly EM&A Report presents the EM&A works conducted from 1 to 30 June 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
-	Permanent site office foundation works with pouring of concrete at Portion D
-	Site clearance at Portion A, B2/E2, 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

#### **Environmental Monitoring and Audit Progress**

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

	Items	Times	Date
-	Air Quality Monitoring during normal weekdays at each monitoring station	6 times	2, 8, 14, 20, 26 & 30 June 2023
-	Construction Noise Monitoring during normal weekdays at each monitoring station	4 times	8, 14, 21 & 26 June 2023
-	Surface Water Quality Monitoring during normal weekdays at each monitoring station	1 time	21 June 2023
-	Landfill Gas Monitoring during normal weekdays for Construction Works	25 times	1 to 3, 5 to 10, 12 to 17, 19 to 21, 23 to 24, 26 to 30 June 2023
-	Post-translocation Monitoring during normal weekdays at recipient site	1 time	7 June 2023
-	Post-transplantation monitoring and audit during normal weekdays for transplanted plants and receptor sites	1 time	16 June 2023
-	Joint Environmental Site Inspection	4 times	5, 12, 19 & 26 June 2023

#### **Environmental Exceedance**

#### Air Quality, Noise & Landfill Gas Monitoring

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

#### Surface Water Quality Monitoring

No exceedance of the Action Level was recorded at designated monitoring stations during the reporting period. 1 Turbidity exceedance of the Limit Level was recorded at WM2 during the reporting period. The investigation results will be presented when the investigation of limit level exceedance of surface water quality is finished.

#### **Environmental Non-conformance/Compliant/Summons and Prosecution**

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

1 complaint & 1 enquiry were recorded during the reporting period. The investigation results will be presented when the investigation was finished.

No summons/prosecutions were received in this 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
- Permanent site office foundation works with pouring of concrete at Portion D
- Site clearance at Portion A & E3-1
- Installation of permanent fencing at Portion A, B1 & E4
- Site formation at Portion A & E3-1
- Tree felling at Portion E3-1 & E4

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

# 1. Introduction

# 1.1. Background

- 1.1.1. The North East New Territories Landfill Extension (the NENTX Project) is located adjacent to the existing North East New Territories (NENT) Landfill at Ta Kwu Ling. The extension site is located in a valley covering mainly the existing NENT Landfill Stockpile and Borrow Area that was formed to the east of the existing landfill as part of the original site development of the landfill, and layout plan shown in **Figure 1**.
- 1.1.2. The NENTX is a designated project. The Environmental Impact Assessment (EIA) Report (AEIAR-111/2007) and an Environmental Monitoring and Audit Manual were approved on 20 September 2007. The project is governed by an Environmental Permit (EP) (EP-292/2007) which was granted on 26 November 2007. A further of EP (FEP) was applied and the FEP (FEP-01/292/2007) was subsequently granted on 28 April 2022.
- 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	The Project mainly consists of the followings: -
Designated Project	Construction and operation of a landfill extension of about 70 hectares with a target void space of at least 19 million cubic metres on the eastern side of the existing NENT Landfill, including the followings: -
	i. Site formation and preparation;
	ii. Installation of liner system;
	iii. Installation of leachate collection, treatment and disposal facilities;
	iv. Installation of gas collection, utilization and management facilities;
	v. Utilities provisions and drainage diversion;
	vi. Landfilling operation;
	vii. Restoration and aftercare in subsequent stages; and
	viii. Measures to mitigate environmental impacts as well as environmental monitoring and auditing to be implemented.

# 1.3. Purpose of this Report

1.3.1. This is the 7<sup>th</sup> 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 June 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	Ms. Kristy Wong	2902 5260
(Veolia Environmental Service Hong Kong Ltd.)		
Independent Environmental Checker (IEC)	Ms. Claudine Lee	2859 5409
(Meinhardt Infrastructure and Environment Ltd.)		
Environmental Team Leader (ETL)	Mr. Fredrick Leong	3664 6888
(Aurecon Hong Kong Limited)		

# 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 O**.

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

FEP Condition	EP Condition	Submission / Measures	Status
2.1	2.3	Management Organization of Main Construction Companies	Submitted
2.2	2.4	Setting up of Community Liaison Group (CLG)	Community Liaison Group was set up.
2.3	2.5	Submission of EM&A Manual	Submitted
2.5	2.7	Submission of Vegetation Survey (Transplantation Proposal)	Submitted
2.6	2.8	Submission of translocation proposal	Submitted
2.7	2.9	2.9 Submission of Transplantation Report and Post-Transplantation Monitoring	Submitted
			11 <sup>th</sup> post-transplantation monitoring
			(16 Jun 2023)
2.8	2.10	Submission of Translocation Report and Post-Translocation Monitoring	Translocation was carried out and the report submitted.
			11 <sup>th</sup> post-translocation monitoring
			(7 Jun 2023)
2.9	2.11	Submission of Detailed Landfill Gas Hazard Assessment Report	Submitted
2.10	2.12	Submission of Waste Management Plan	Submitted
3.2	3.2	Submission of Baseline Monitoring Report	Submitted

# 2.4. Status of Environmental Approval Document

2.4.1. A summary of the relevant valid permits, licences, and/or notifications on environmental protection for this Project since the granting of the FEP & EP is presented in **Table 2-4**.

Table 2-4 Summary of the relevant valid permits, licences, and/or notifications on environmental protection

Permit / Licenses / Notification	Reference	Expiry Date	Remark
Environmental Permit (EP)	EP-292/2007	Throughout the Contract	Permit granted on 26 November 2007
Further Environmental Permit (FEP)	FEP-210/2022	Throughout the Contract	Permit granted on 28 April 2022
Notification of Construction Works as required under Air Pollution Control (Construction Dust) Regulation	Works as Construction Phase 20 er Air itrol		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-RN0299-23	22 June 2023	Permit granted on 21 March 2023
Construction Noise Permit	GW-RN0619-23	22 September 2023	Permit granted on 16 June 2023 (replaced the CNP No. GW- RN0299-23)
Effluent Discharge License under Water Pollution Control Ordinance	WT00042301-2022	31 October 2027	Permit granted on 18 October 2022 Variation of Licence (Permit granted on 7 February 2023)

# 2.5. Environmental Monitoring and Audit Progress

2.5.1. A summary of the monitoring activities in this reporting period is presented in **Table2-5**.

Table 2-5 Summary of the Monitoring Activities in this reporting period

	Items	Times	Date
-	Air Quality Monitoring during normal weekdays at each monitoring station	6 times	2, 8, 14, 20, 26 & 30 June 2023
-	Construction Noise Monitoring during normal weekdays at each monitoring station	4 times	8, 14, 21 & 26 June 2023
-	Surface Water Quality Monitoring during normal weekdays at each monitoring station	1 time	21 June 2023
-	Landfill Gas Monitoring during normal weekdays for Construction Works	25 times	1 to 3, 5 to 10, 12 to 17, 19 to 21, 23 to 24, 26 to 30 June 2023
-	Post-translocation Monitoring during normal weekdays at recipient site	1 time	7 June 2023
-	Post-transplantation monitoring and audit during normal weekdays for transplanted plants and receptor sites	1 time	16 June 2023
-	Joint Environmental Site Inspection	4 times	5, 12, 19 & 26 June 2023

# **Air Quality**

6 sets of 1-hr & 24-hr TSP construction dust measurement were carried out at each monitoring stations during normal weekdays of the reporting period.

No Action / Limit Level exceedance for 1-hr & 24-hr TSP impact monitoring at AM1, AM2 & AM3 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 Levels of surface water quality was recorded during the reporting period. 1 turbidity exceedance of Limit Levels of surface water quality at

WM2 was recorded during the reporting period. The investigation results will be presented when the investigation of limit level exceedance of surface water quality is finished.

#### **Landfill Gas**

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

### **Landscape and Visual**

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**

1 set of post-translocation monitoring at recipient site and 1 set of post-transplantation monitoring and audit for transplanted plants and receptor sites during normal weekdays of the reporting period were carried out. Implementation of the mitigation measures during construction phase of the Project has been monitored through the regular site inspection/audit.

# **Environmental Site Inspection**

4 weekly environmental site inspections were carried out during the reporting period. A joint environmental site inspection was carried out by the representatives of the Employer's Representative (ER), the Contractor, IEC and the ET on 19 June 2023. The Contractor has generally implemented the mitigation measures as recommended.

#### 3. **Air Quality Monitoring**

#### 3.1 **Construction Dust**

#### 3.1.1 **Monitoring Requirement**

In accordance with the EM&A Manual, 1-hr & 24-hr Total Suspended Particulates (TSP) levels 3.1.1.1 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.
- A baseline monitoring plan has been submitted to IEC and EPD on 31 May 2022 including 3.1.2.2 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.
- The detailed monitoring schedule is shown in **Appendix C**. The locations of dust monitoring 3.1.2.3 stations are shown in Table 3-1. The monitoring parameters, frequency and duration are shown in Table 3-2.

Table 3-1 **Locations of Dust Monitoring Stations** 

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

#### Remarks:

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

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

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

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

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

Monitoring Station	Parameter	Frequency and Duration
AM1, AM2, AM3	1-hr TSP	At least 3 times per 6 days
AIVI I, AIVIZ, AIVIS	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.
- Table 3-3 summarises the equipment that were used in the dust monitoring programme. The 3.1.3.2 calibration certificates are shown in Appendix D.

Table 3-3 **Dust Monitoring Equipment** 

Equipment	Model	Expiry Date	Monitoring Station	
	TE-5170X (S/N: 1105)	5 Jul 2023	AM1	
High Volume Sampler (HVS)	TE-5170X (S/N: 1106)		AM2	
	TE-5170X (S/N: 1856)		AM3	
	Sibata LD- 5R (S/N: 0Z4545)			
	Sibata LD- 5R (S/N: 882106)			
Direct Reading Dust Meter	Sibata LD- 5R (S/N: 882110)	2 Dec 2023	AM1 to AM3	
	Sibata LD- 5R (S/N: 942532)			
Calibration Kit (for HVS)	TE-5025A (S/N: 3465)	28 Jun 2023	AM1 to AM3	

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.
- 3. Install the orifice and adapter plate to high volume air sample. Tighten the nut securely. Turn the knob of orifice clock-wise to close the four holes on the bottom open.
- 4. Hold the water manometer on the cover of mass flow controller vertically. Connect one side of a water manometer to the pressure tap on the side of the orifice with a rubber vacuum tube. Leave opposite side of the manometer open to the atmosphere.
- 5. Turn on the sampler
- 6. Five flow rates are achieved by changing the different plates to change the resistance. Record the manometer reading and the reading from continuous flow recorder. At least 5 sets of data should be recorded.
- 3.1.4.12 The Calibration process shall eyewitness with the representative of ET & IEC.

# 3.1.5 Monitoring Results

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

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

Dust Monitoring Station	Average 1-hr TSP Concentration, μg/m³ (Range)	Action Level, μg/m³	Limit Level, µg/m³
AM1	28 (15 – 38)	>285	>500
AM2	31 (21 – 45)	>279	>500
AM3	33 (21 – 45)	>285	>500

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

Dust Monitoring Station	Average 24-hr TSP Concentration, μg/m³ (Range)	Action Level, μg/m³	Limit Level, μg/m³
AM1	47 (28 – 95)	>164	>260
AM2	41 (32 – 54)	>152	>260
AM3	82 (43 – 130)	>163	>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	Parameter	4 hr TOD	04 hr TOD	Exceedance	
Monitoring Station	Level Exceedance	1-hr TSP	24-hr TSP	Count	
AM1	Action	0	0	0	
	Limit	0	0	0	
AM2	Action	0	0	0	
	Limit	0	0	0	
AM3	Action	0	0	0	
	Limit	0	0	0	

Remarks: \* equal to non-project related

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

# 3.1.6 Wind Data Monitoring

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

# 3.1.7 Recommended Mitigation Measures

- 3.1.7.1 The recommended dust mitigation measures from EIA report are listed as followed:
  - The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation.
  - Dust emission from construction vehicle movement is confined within the worksites area.

- Watering facilities will be provided at every designated vehicular exit point.
- Good site practice is recommended during construction phase.

# 3.1.8 Event and Action Plan

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

Table 3-7 Event and Action Plan for dust impact

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

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

# 4 Noise Monitoring

# 4.1 Monitoring Requirement

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

# 4.2 Monitoring Locations, Parameters and Frequency

- **4.2.1** According to the EM&A Manual, two monitoring stations namely NM1 and NM2 are selected for the impact monitoring.
- 4.2.2 A baseline monitoring plan has been submitted to IEC and EPD on 31 May 2022 including the proposal with justification of change of monitoring locations. Due to limited access to the original monitoring locations at NM1 and NM2, the adjusted stations at NM1a and NM2a were agreed with IEC prior to the baseline and impact monitoring. The noise monitoring locations are summarized in Table 4-1 and shown in Figure 2.
- **4.2.3** The detailed monitoring schedule is shown in **Appendix C**. The frequency and duration are shown in **Table 4-2**.

Table 4-1	Noise Monitoring Locations
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Monitoring Station	Representative for	Type of Measurement
NM1a	Wo Keng Shan Tsuen	Free field
NM2a	Lin Ma Hang	Free field

#### Remarks:

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

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

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

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

Table 4-2 Noise Monitoring Parameters, Frequency and Duration

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

# 4.3 Monitoring Equipment

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

Table 4-3 Noise Monitoring Equipment

Equipment	Model	Expiry Date
Sound Level Meter	NTi XL2 (S/N: A2A-13661-E0)	21 Aug 2023
Acoustic Calibrator	Rion NC-75 (S/N: 34724243)	10 Jul 2023
Anemometer	RS PRO RS-90 (S/N: 210722208)	12 Feb 2025

# 4.4 Monitoring Methodology

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

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

#### **Calibration & Maintenance**

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

# 4.5 Monitoring Results

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

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

Noise Monitoring Station	Average Leq, 30min, dB(A) (Range)	Action Level	Limit Level	
NM1a	58.6 (53.5 – 61.5)	When one documented	75 ID(A)	
NM2a	53.9 (48.5 – 57.7)	complaint is received	>75dB(A)	

Remark:

- (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.

<sup>(1) \*</sup> A correction of +3 dB(A) was made to the free field measurements

# 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 **Table 4.5** shall be carried out.

Table 4-5 Event and action plan for construction noise monitoring

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

# 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 on 21 June 2023 at WM1 and WM2. The monitoring locations are indicated in **Table 5-1** and **Figure 2**.
- 5.2.2.2 The monitoring parameters, frequency and duration of surface water quality monitoring are summarized in **Table 5-2**. Detailed monitoring schedule is presented in **Appendix C**.

Table 5-1 Surface water quality monitoring locations

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

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

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

# **5.2.3 Monitoring Equipment**

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

Table 5-3 Surface Water Quality Monitoring Equipment

Equipment	Model	Expiry Date
Water Quality Meter	HORIBA U-53 (S/N: PORBNFNT)	16 Aug 2023
Water Flow Meter	FP111 (S/N: 22K100859)	6 Nov 2023

# 5.2.4 Summary of Surface Water Quality Monitoring Procedure

**Operational/ Analytical Procedures** 

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

**Laboratory Analytical Methods** 

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

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

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

### QA/ QC Requirements

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

#### **Decontamination Procedures**

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

Sampling Management and Supervision

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

**Quality Control Measures for Sample Testing** 

- 5.2.4.7 The samples testing was performed by ALS Technichem (HK) Pty Ltd. The following quality control programme was performed by the laboratory:
  - · One method blank; and
  - One sample duplicate.

# 5.2.5 Monitoring Results

- 5.2.5.1 Impact surface water quality monitoring was conducted at WM1 and WM2 on 21 June 2023. No adverse weather was observed during reporting period. The detailed monitoring schedule is shown in **Appendix C**.
- 5.2.5.2 The summary of monitoring results is presented in **Table 5-5**. Detailed monitoring results at each monitoring station and graphical presentations of surface water quality (DO, SS and Turbidity) at the monitoring stations are given in **Appendix E** and **Appendix F**.
- 5.2.5.3 No particular observations are identified near the monitoring stations during the monitoring period.

Table 5-5 Summary of Impact Surface Water Monitoring Results

	Monitoring Station					
Monitoring		WM1		WM2		
Parameter(s)	Monitoring Results	Action Level	Limit Level	Monitoring Results	Action Level	Limit Level
рН	7.1	>7.7	>7.8	7.2	>7.6	>7.7
Electrical Conductivity in µS/cm	73			142		
DO in mg/L	7.6	<7.4	<4	6.8	<5	<4
Turbidity in NTU	5.7	>9.2	>9.5	142.5	>108.3	>108.9
SS in mg/L	6.6	>9.7	>11.4	83.2	>94.5	>94.7
Alkalinity	15			35		
COD	9			14		
BOD <sub>5</sub>	<2			<2		
TOC	2			2		
Ammonia- nitrogen	<0.01			0.14		
TKN	0.6			0.8		
Nitrate	0.06			0.32		
Sulphate	2			17		
Sulphite	<2			<2		
Phosphate	0.01			<0.01		
Chloride	6			11		
Sodium	6750			6830		
Mg	540			1560		
Ca	3340			18600		
K	830			3050		
Fe	570			3850		
Ni	<1			12.0		
Zn	13					
Mn	34			509		
Cu	1					
Pb	1			11		
Cd	<0.2			<0.2		
Coliform Count	220			4200		
Oil and Grease	<5			<5		

- 5.2.5.4 No exceedance of Action Levels of surface water monitoring was recorded during the reporting period. 1 turbidity exceedance of Limit Levels of surface water quality at WM2 was recorded during the reporting period.
- 5.2.5.5 The Summary of Impact Surface Water Quality Exceedance are shown in **Table 5-6**. The Notification of Environmental Quality Limits Exceedances will be presented in the report after the investigation.

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

Water	Parameter					Farandana
Quality Monitoring Station	Level Exceedance	pН	DO	Turbidity	SS	Exceedance Count
WM1	Action	0	0	0	0	0
	Limit	0	0	0	0	0
WM2	Action	0	0	0	0	0
	Limit	0	0	1	0	1
				(21 Jun 23)#		

Remarks:

# 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.

<sup>(1) #</sup> The investigation results will be presented in the report after the investigation.

<sup>(2) \*</sup> equal to non-project related

# 5.2.7 Implementation of the temporary surface water drainage system

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

# 5.2.8 Event and Action Plan

5.2.8.1 Should non-compliance of the criteria occurs, action in accordance with the action plan in **Table 5-6** shall be carried out.

Table 5-6 Event and Action Plan for Water Quality

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

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

# 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 11,211 tonnes of C&D materials was reused at alternative disposal ground (NENT Landfill) during the reporting period. A total of 2.38 tonnes of Yard waste (collected to Y-Park) was generated during the reporting period. A total of 14.69 tonnes of general refuse and A total of 346.82 tonnes of non-recyclable yard waste was generated during the reporting period. The general refuse generated from the Project were disposed of at the NENT Landfill.
- **6.1.3** The recommended waste management mitigation measures from EIA report are listed as followed:
  - Implement a trip-ticket system to ensure that the movement of C&D materials are properly documented and verified in accordance with DEVB TC(W) No. 6/2010.
  - Concrete and masonry should be used as general fill and steel reinforcement bars can be used by scrap steel mills.
  - Proper areas should be designated for waste segregation and storage wherever site conditions permit.
  - Maximise the use of reusable steel formwork to reduce the amount of C&D material.
  - Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement.
  - On-site sorting and segregation facility of all type of wastes is considered as one
    of the best practice in waste management and hence, should be implemented in
    all projects generating construction waste.
  - The sorted public fill and C&D waste should be properly reused.
  - Excavated slope, stockpiled material and bund walls should be covered by tarpaulin until used in order to prevent wind-blown dust during dry weather, and to reduce muddy runoff during wet weather.

# 7 Landfill Gas Monitoring

#### 7.1 Monitoring Requirement during Construction

#### **Monitoring for Construction Works**

- 7.1.1 Intrinsically safe portable gas detectors should be used during or when working in any confined spaces, which have the potential for presence of LFG and risk of explosion or asphyxiation. The monitoring equipment should alarm, both audibly and visually, when the concentrations of the following gases were exceeded:
  - CH<sub>4</sub>: >10% Lower Explosion Limit (LEL);
  - CO<sub>2</sub>: >0.5%; and
  - O<sub>2</sub>: <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 +55 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 <sub>4</sub> & O <sub>2</sub>	Gas Detector	PS200 (S/N: 373075)	16 Nov 2023
CO <sub>2</sub>	Gas Analyser	GEM5000 (S/N: G508566)	16 Aug 2023

**Table 7-3 Landfill Gas Monitoring Detection Limits** 

Parameters	Detection Limit
CH <sub>4</sub>	1% LEL
O <sub>2</sub>	0.1%
CO <sub>2</sub>	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 Table7-4 shall be carried out.

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

Parameter	Monitoring Result	Action
	Action Level <19% O <sub>2</sub>	Ventilate trench/void to restore O <sub>2</sub> to >19%
Oxygen (O <sub>2</sub> )	Limit Level <18% O <sub>2</sub>	Stop works Evacuate personnel/prohibit entry Increase ventilation to restore O <sub>2</sub> to >19%
	Action Level >10% LEL*	Prohibit hot works Increase ventilation to restore CH <sub>4</sub> to <10% LEL
Methane (CH₄)	Limit Level >20% LEL*	Stop works Evacuate personnel/prohibit entry Increase ventilation to restore CH <sub>4</sub> to <10% LEL
	Action Level** >0.5%** CO <sub>2</sub>	Ventilate to restore CO <sub>2</sub> to <0.5%
Carbon dioxide (CO <sub>2</sub> )	Limit Level >1.5% CO <sub>2</sub>	Stop works Evacuate personnel / prohibit entry Increase ventilation to restore CO <sub>2</sub> to <0.5%

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

Depending on the baseline CO<sub>2</sub> levels, the Action Level at a particular location will be changed.

<sup>\*\*</sup> This Action Level of CO<sub>2</sub> at 0.5% is set for reference only, assuming no CO<sub>2</sub> emission from a particular location.

### 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 +55 mpD to 70 mpD Platform in June 2023 (Conducted on working days). The LFG monitoring results are summarized in **Table 7-5.**

Table 7-5 Summary of LFG Monitoring Results

Table 7-5 Summary of LFG Monitoring Results							
LFG	Monitoring	Monitoring Parameter(s)					
Monitoring	Date	CH <sub>4</sub> in %	LEL in %/v	CO <sub>2</sub> in %	O <sub>2</sub> in %		
Station			Average Mo	onitoring Results			
	1 Jun 2023	0	0	0	20.3		
	2 Jun 2023	0	0	0	20.3		
	3 Jun 2023	0	0	0	20.2		
	5 Jun 2023	0	0	0	20.3		
	6 Jun 2023	0	0	0	20.1		
	7 Jun 2023	0	0	0	20.2		
	8 Jun 2023	0	0	0	20.2		
	9 Jun 2023	0	0	0	20.2		
	10 Jun 2023	0	0	0	20.2		
	12 Jun 2023	0	0	0	20.1		
	13 Jun 2023	0	0	0	20.2		
Portion A +55	14 Jun 2023	0	0	0	20.3		
mpD to 70	15 Jun 2023	0	0	0	20.2		
mpD Platform	16 Jun 2023	0	0	0	20.3		
	17 Jun 2023	0	0	0	20.2		
	19 Jun 2023	0	0	0	20.1		
	20 Jun 2023	0	0	0	20.2		
	21 Jun 2023	0	0	0	20.1		
	23 Jun 2023	0	0	0	20.1		
	24 Jun 2023	0	0	0	20.2		
	26 Jun 2023	0	0	0	20.2		
	27 Jun 2023	0	0	0	20.2		
	28 Jun 2023	0	0	0	20.2		
	29 Jun 2023	0	0	0	20.1		
	30 Jun 2023	0	0	0	20.1		
Action Level		>10% LEL		>0.5%** CO <sub>2</sub>	<19%		

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

- **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

- **7.6.1** The recommended landfill gas mitigation measures from EIA report are listed as followed:
  - Special LFG precautions should be taken due to close proximity of NENT landfill
    extension site to existing landfill to avoid potential hazards of LFG exposure (ignition,
    explosion, asphyxiation, toxicity).

<sup>\*\*</sup> This Limit Level of CO<sub>2</sub> at 0.5% is set for reference only, assuming no CO<sub>2</sub> emission from a particular location.

- 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 22 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 In the reporting period, the post-translocation monitoring for the Endemic Freshwater Crab Somanniathelphusa zanklon was conducted on 7 Jun 2023 based on the requirement of the approved Revised Translocation Proposal for the Endemic Freshwater Crab Somanniathelphusa zanklon. The 11<sup>th</sup> Post-Translocation Monitoring Report (Jun 2023) presents the details of requirements, monitoring results and site inspection with photos. The site inspection photos are also summarized in Appendix N. During the reporting period, no S. zanklon individual is identified.
- 10.1.2 The post-transplantation monitoring was conducted on 16 Jun 2023 based on the requirement of the approved Transplantation Proposal for Plant Species of Conservation Importance (Rev.1). The 11<sup>th</sup> Post-transplantation Monitoring and Audit Report (16<sup>th</sup> Jun 2023) presents the details of requirements, monitoring results and site inspection with photos. The site inspection photos are also summarized in **Appendix N**. During the reporting period, the numbers, measurements, and health conditions of the transplanted plant species are recorded.
- **10.1.3** The details of requirements, monitoring results and site inspection with photos for the post-translocation monitoring and post-transplantation monitoring would be reported separately.
- **10.1.4** The milestone of the ecological monitoring is presented in **Table 10-1.** The softcopies of the submissions are provided in https://www.nentx-ema.com/ep-submissions/.

Table 10-1 Milestone of the Ecological Monitoring

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

# 11 Site Inspection and Audit

- **11.1.1** Site Inspection and audits were carried out by ET on weekly basis to monitor the implementation of proper environmental management practices and mitigation measures in the Project Site.
- 11.1.2 Weekly ET environmental site inspections were conducted in the reporting period on 5, 12,19 & 26 Jun 2023. A joint environmental site inspection was carried out by the representatives of the ER, the Contractor, IEC and the ET on 19 Jun 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:

#### 05 Jun 2023

#### Observation(s):

 The accumulate water was found the drip tray at Portion D. The contractor was recommended that the accumulate water in drip tray should be cleared regularly and after rainy to minimize the potential chemical waste.

#### Reminder(s):

 The contractor was reminded that the particular attention should be paid to the control of silty surface runoff during storm event in accordance with Appendix A2 of ProPECC PN 1/94.

#### 12 Jun 2023

#### Observation(s):

- The stagnant water and silt in the drip trays shall be clear off in Portion B2 and SBA. The Contractor was recommended to clear drip trays.
- Watering shall be scheduled in Portion A under hot weather. The Contractor was recommended to schedule watering in Portion A.

#### Reminder(s):

• The Contractor was reminded to ensure channel and silt removal facilities shall be functioning properly for the upcoming rainfall. Silt removal facility and channel shall be maintained properly.

#### 19 Jun 2023

#### Reminder(s):

- The Contractor was reminded to ensure silt removal facilities shall be functioning properly for the upcoming rainfall. Silt removal facility shall be functioning properly to ensure sufficient treatment for all wastewater before discharging to comply with WPCO.
- The Contractor was reminded that the bunding along the slope edge shall be properly maintained to prevent surface runoff during heavy rainfall at Portion A. Earth bund in Portion A shall be properly maintained.

#### 26 Jun 2023

#### Observation(s):

- The sediment at the drainage system and site boundary, especially at the lower elevations should be kept cleaning regularly. (Most of sediment was found at the lower elevations of Portion A). The contractor should ensure no untreated construction runoff discharging directly outside the site boundary of the project. The contractor was recommended that the sediment at the drainage system and site boundary, especially at the lower elevations should be kept cleaning regularly.
- The accumulate water at the drip tray near Portion E2 was found. The contractor was recommended that the accumulate water at the drip tray near Portion E2 should be cleaned after the rainy to minimize the potential chemical waste.

#### Reminder(s):

- The unpaved assess road was dry. The contractor was reminded to increase the frequency of watering at the Portion A.
- 11.1.4 1 general site inspection on 12 June 2023 was conducted by Environmental Protection Department-Regional Office (North) (EPD-RNG). 1 additional site inspection on 21 June 2023 for the Environmental Complaint received on 14 June 2023 & the Environmental Enquiry received on 15 June 2023 was conducted with EPD-RNG, ER, IC, IEC ET & Contractor.

#### 12 Environmental Non-conformance

#### 12.1 Summary of Monitoring Exceedance

**12.1.1** No exceedance of the Action Levels was recorded at designated monitoring stations during the reporting period. 1 Turbidity exceedance of the Limit Level for surface water quality was recorded at WM2 during the reporting period. The investigation results will be presented when the investigation of limit level exceedance of surface water quality is finished.

#### 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** 1 complaint & 1 enquiry received from EPD-RNG on 14 & 15 June 2023 were recorded during the reporting period. The related complaint and enquiry are investigating by related parties in accordance with the requirement of EM&A Manual.

Environmental Complaint on 14 June 2023

**12.3.2** The complaint about the water aspect was received by ET on 14 June 2023 at 12:08 via EPD-RNG email. The main content of the complaint mentioned the muddy water was observed at Lin Ma Hang International Bridge on 30 May 2023. The related investigation results will be presented when the investigation was finished.

Environmental Enquiry on 15 June 2023

- **12.3.3** The enquiry about the water aspect was received by ET on 15 June 2023 at 15:18 via EPD-RNG email. The main content of the enquiry mentioned the muddy water was observed at River Ganges (GR3) (Water Quality Monitoring Point from EPD). The related investigation results will be presented when the investigation was finished.
- 12.3.4 The cumulative statistics on environmental complaints are presented in Table 12-1.

Table 12-1 Cumulative Statistics on Environmental Complaints

Reporting	Environmental Aspects					No. of Environmental	
Period	Air Quality	Noise	Water Quality	Waste	Ecology	Complaints	
Jun 2023	0	0	1#	0	0	0	
Accumulate of project	1*	0	0	0	0	1*	

Remarks:

- (1) \* equal to non-project related after the investigation
- (2) # equal to the investigation results will be presented in the report after the investigation.
- **12.3.5** Cumulative complaint / enquiry log, Summaries of complaints and enquiries & Environmental complaint reports are presented in **Appendix P**. The investigation results will be presented when the investigation was finished.

# 12.4 Summary of Environmental Summons and Successful Prosecution

**12.4.1** No summons was received during the reporting period

# 13 Implementation Status on Environmental Mitigation Measures

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

# 14 Future Key Issues

#### 14.1 Key Issues for the Coming Month

- **14.1.1** Works to be undertaken for the coming monitoring periods are summarized below. Detailed construction activities and locations are summarized in **Appendix L**.
  - Material loading and unloading, site traffic at Portion A, SBA to alternative disposal ground
  - Permanent site office foundation works with pouring of concrete at Portion D
  - Site clearance at Portion A & E3-1
  - Installation of permanent fencing at Portion A, B1 & E4
  - Site formation at Portion A & E3-1
  - Tree felling at Portion E3-1 & E4
- **14.1.2** Potential environmental impacts arising from the above construction activities are mainly associated with air quality, construction noise, water quality, waste management, landfill gas monitoring, landscape and visual, cultural heritage and ecology

#### 14.2 Monitoring Schedule for the Next Month

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

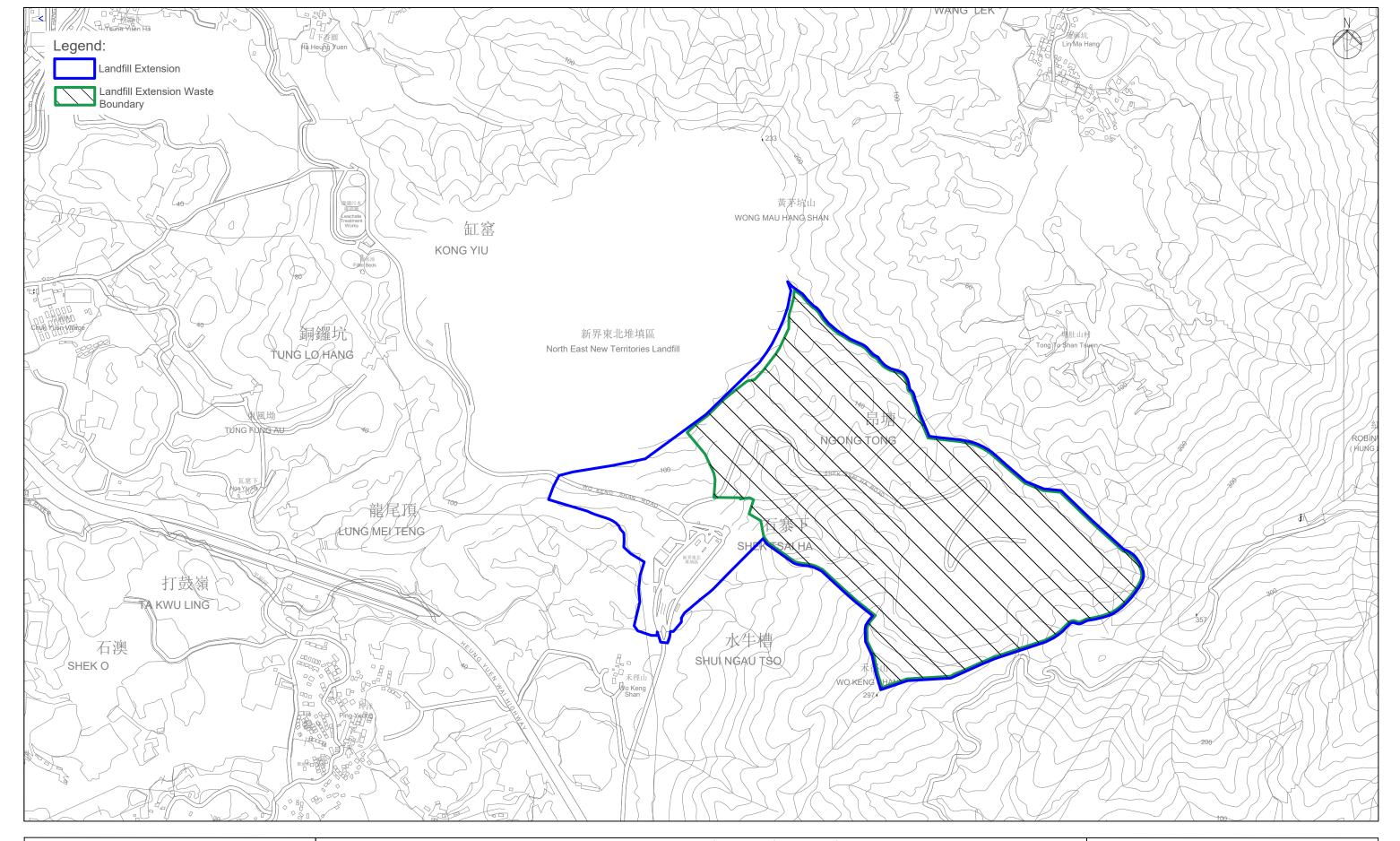
#### 14.3 Construction Programme for the Next Month

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

#### 15 Conclusion

- **15.1.1** 1-hr & 24-hr TSP impact monitoring was carried out in the reporting month. No Action / Limit Level exceedance for 1-hr & 24-hr TSP impact monitoring at AM1, AM2 & AM3 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 monitoring was carried out in the reporting month. No Action Level exceedance of surface water monitoring was recorded during the reporting period. 1 turbidity Limit Level exceedance of surface water quality at WM2 was recorded during the reporting period. The investigation results will be presented when the investigation of limit level exceedance of surface water quality is finished.
- **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** Post-translocation Monitoring was carried out in the reporting period. No *S. zanklon individual* was found. Post-transplantation monitoring was carried out in the reporting month. The numbers, measurements and health conditions of the transplanted species are recorded.
- **15.1.8** 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.
- **15.1.9** 1 complaint & 1 enquiry received from EPD-RNG on 14 & 15 June 2023 were recorded during the reporting period. The related complaint and enquiry are investigating by related parties in accordance with the requirement of EM&A Manual. The investigation results will be presented when the investigation finished.
- **15.1.10** No non-compliance event was recorded during the reporting period.
- **15.1.11** No notification of summons and prosecution was received during the reporting period.
- **15.1.12** 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



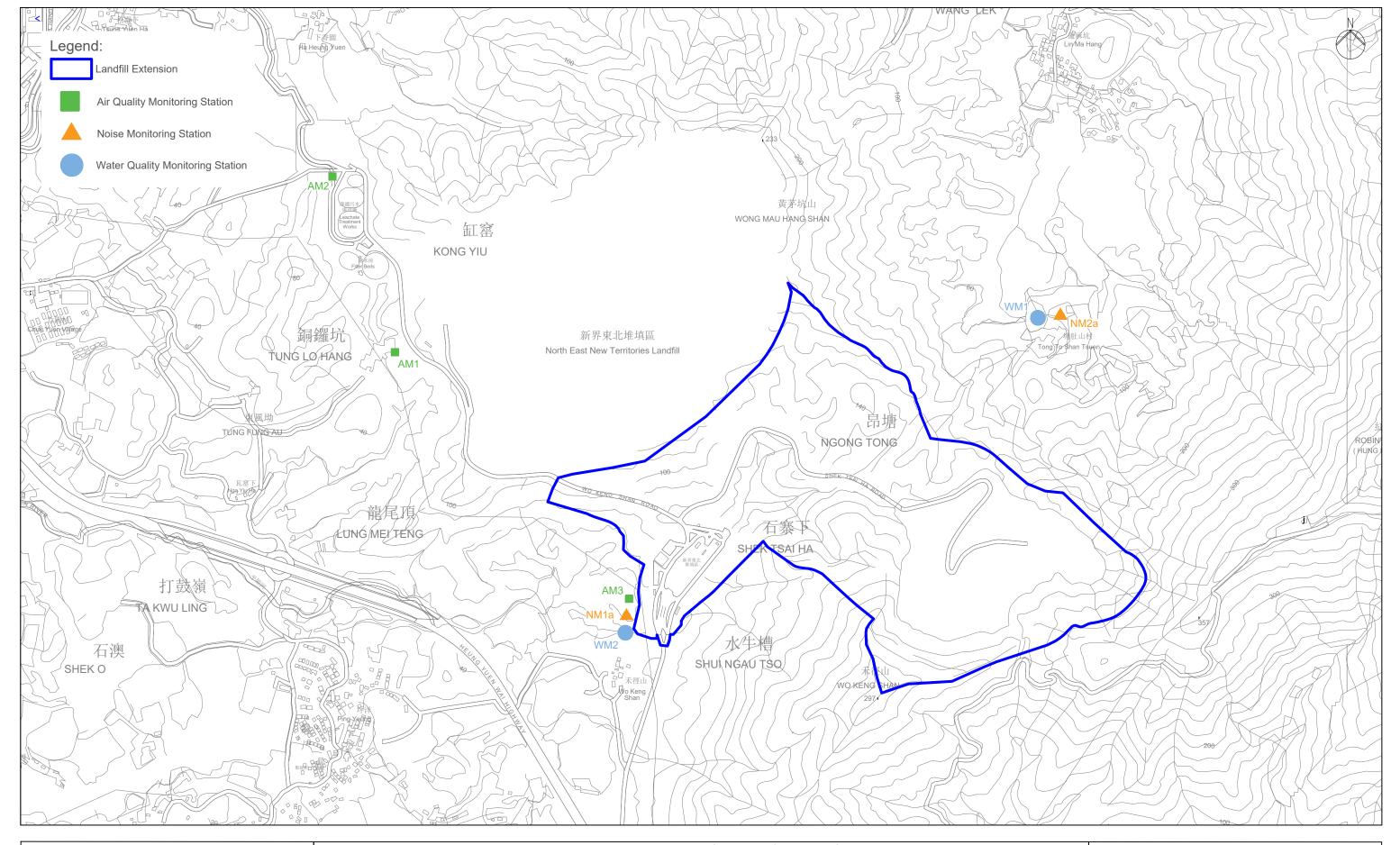


North-East New Territories (NENT) Landfill Extension Location Plan of the Project Site

Figure 1.1

Scale: 1:10000

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





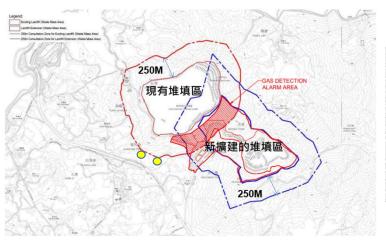
North-East New Territories (NENT) Landfill Extension Impact Monitoring Locations

Figure 2

Scale: 1:10000

# Figure 3 Landfill Gas Monitoring Locations

Gas Monitoring Point • Monitoring Frequency: 2 times per day



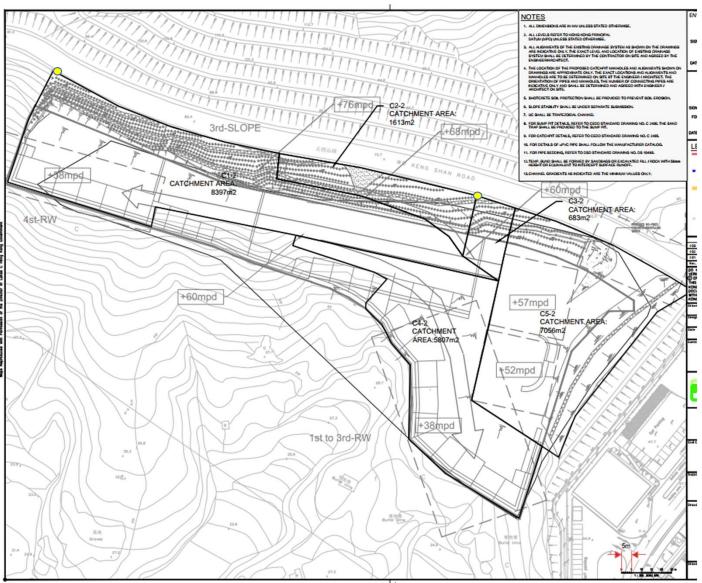
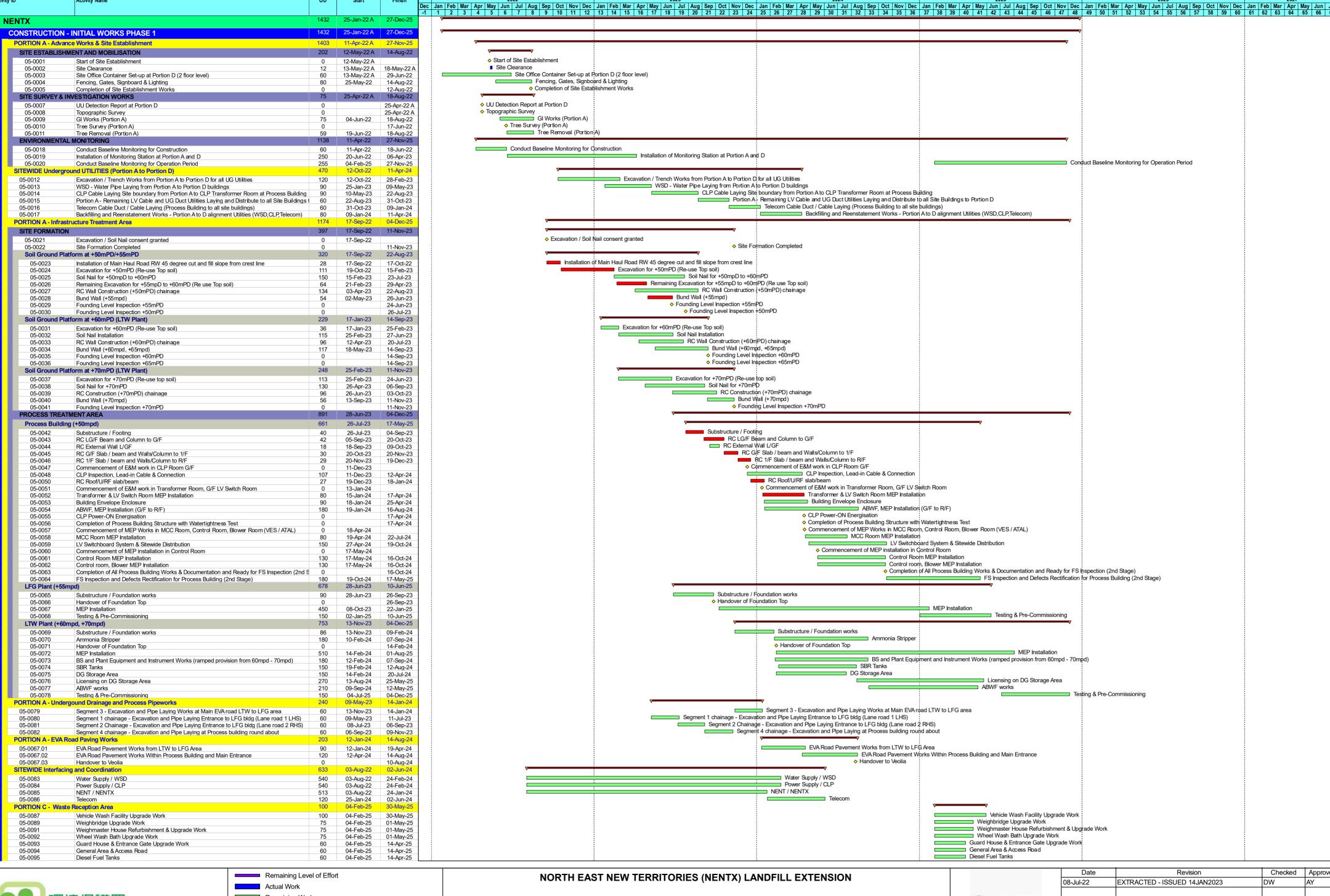


Figure 3 Landfill Gas Monitoring Locations

# Appendix A Construction Programme



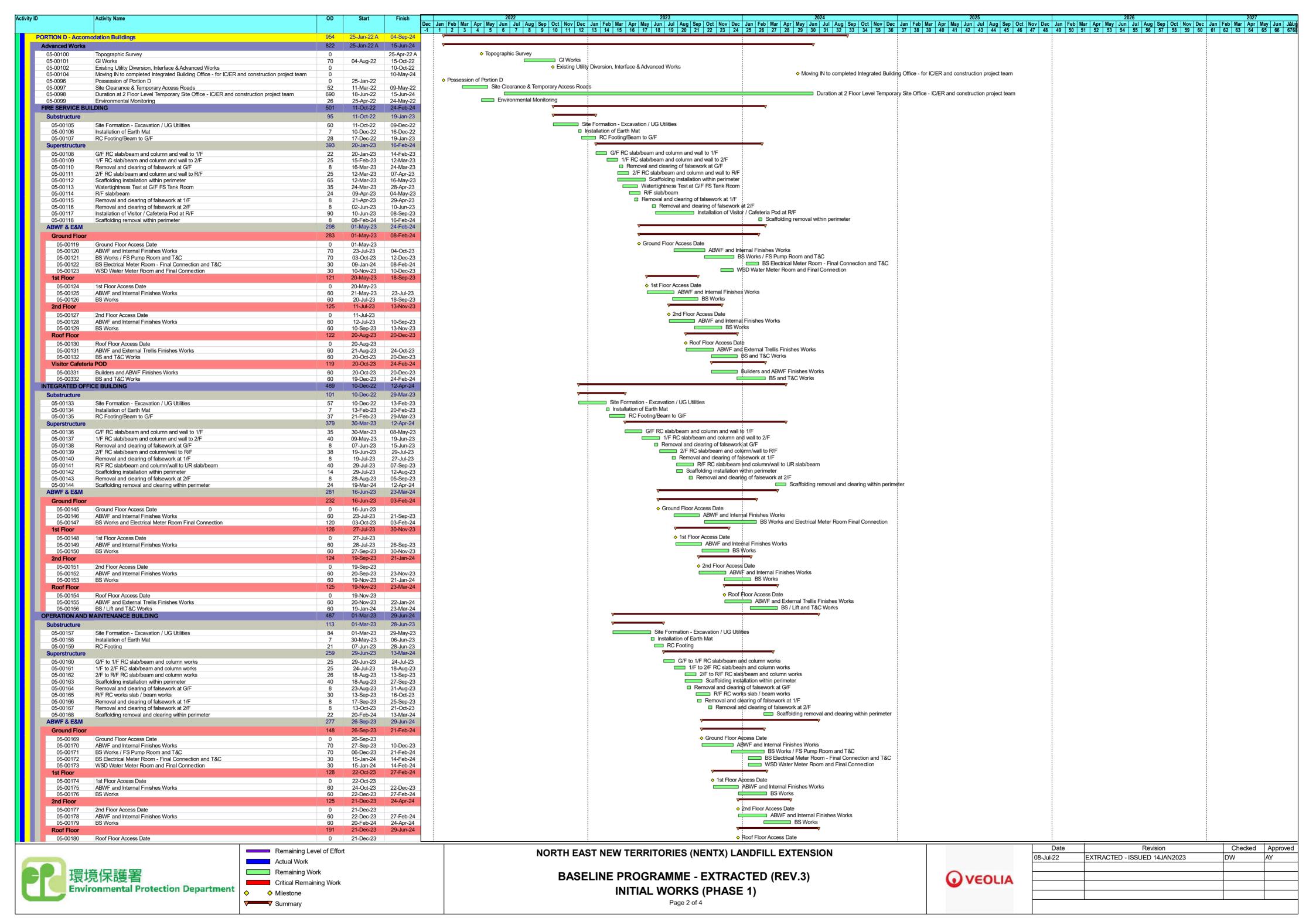


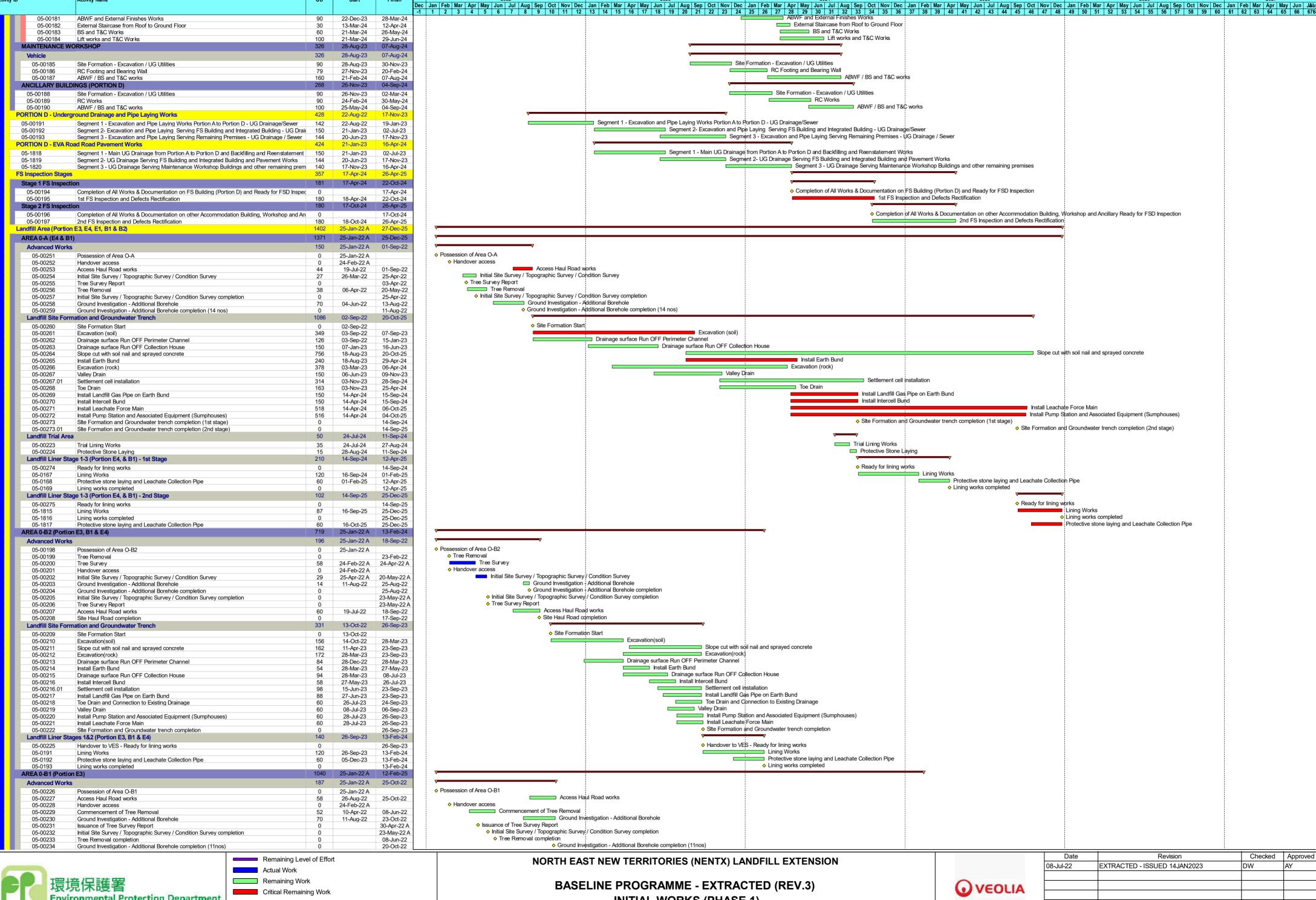


BASELINE PROGRAMME - EXTRACTED (REV.3)
INITIAL WORKS (PHASE 1)
Page 1 of 4



Date	Revision	Checked	Approved
08-Jul-22	EXTRACTED - ISSUED 14JAN2023	DW	AY





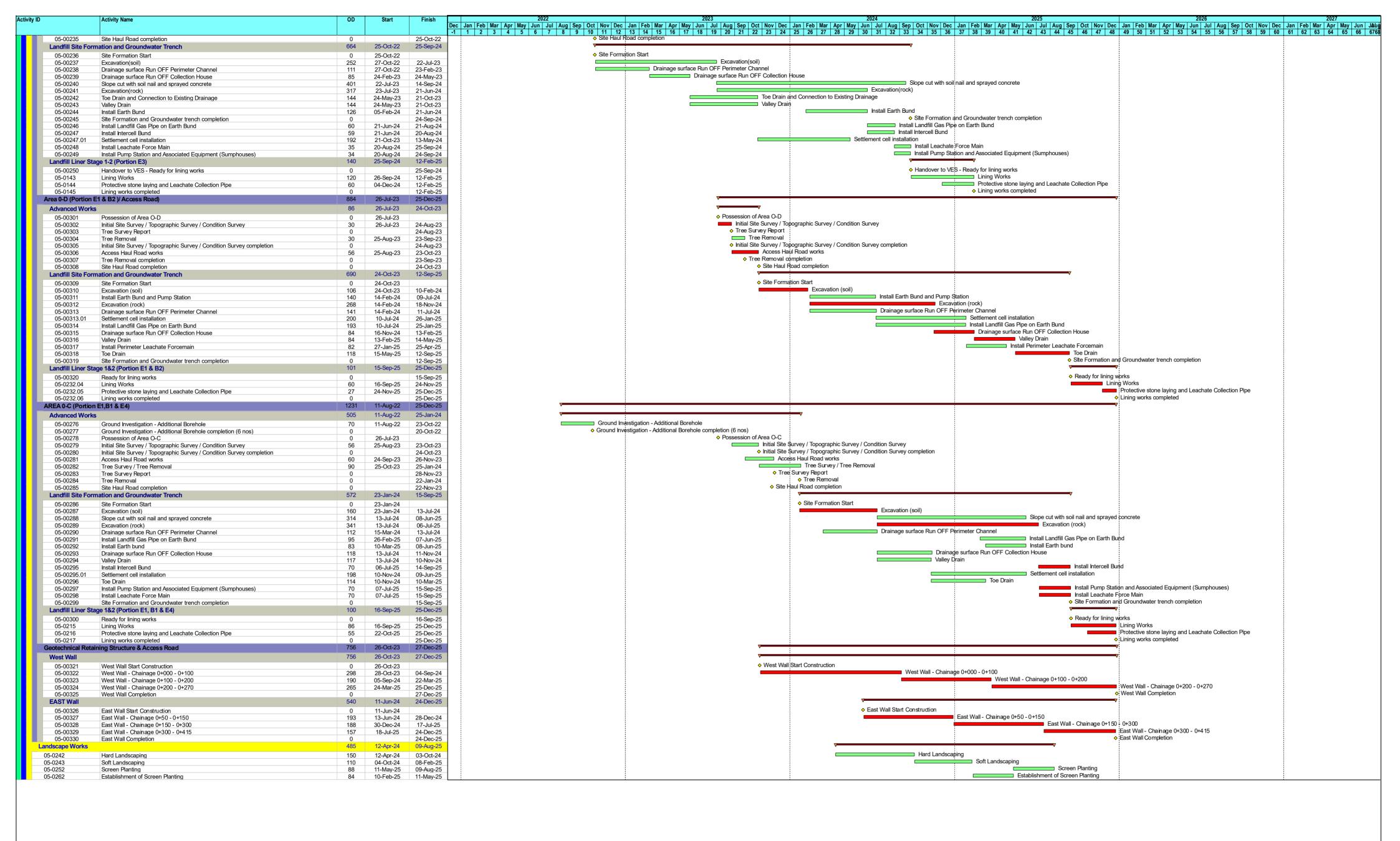


Milestone ── Summary

**INITIAL WORKS (F** 

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PHASE 1)	

	Date	Revision	Checked	Approved
[	08-Jul-22	EXTRACTED - ISSUED 14JAN2023	DW	AY
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[				







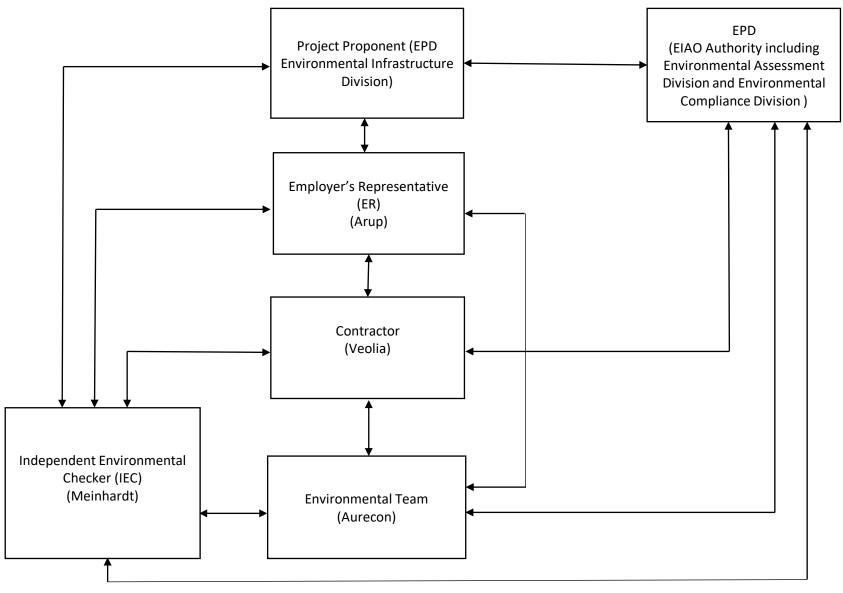


BASELINE PROGRAMME - EXTRACTED (REV.3)
INITIAL WORKS (PHASE 1)
Page 4 of 4



Date	Revision	Checked	Approved
08-Jul-22	EXTRACTED - ISSUED 14JAN2023	DW	AY

Appendix B Project Organization Chart & Management Structure



Notes:

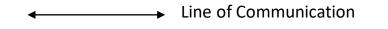
EPD - Environmental Protection Department

Arup – Ove Arup & Partners Limited

Veolia - Veolia Environmental Services Hong Kong Limited

Meinhardt - Meinhardt Infrastructure And Environment Limited

Aurecon - Aurecon Hong Kong Limited



# Appendix C Monitoring Schedule for Reporting Month & Next Month

Impact Monitoring Schedule for NENT Landfill Extension (July 2023) (version 2.0)

7-2023							
Sun	Mon	Tue	Wed	Thur	Fri	Sat	
						1	
2		4		Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	7	8	
9	10	11	Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a Surface water quality monitoring at WM1 and WM2		14	15	
16	17	18 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	19	20	21	22	
23	24 Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	25	26	27	28	29 Air quality monitoring at AM1, AM2 and AM3	
30	31						

#### 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).

#### Impact Monitoring Schedule for NENT Landfill Extension (June 2023) (version 8.0)

6-2023							
Sun	Mon	Tue	Wed			Sat	
				1	Air quality monitoring at AM1, AM2 and AM3	3	
4	5	6		Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	9	10	
11	12	13	Air quality monitoring at AM1, AM2 and AM3 Noise monitoring at NM1a and NM2a	15	16	17	
18	19	Air quality monitoring at AM1, AM2 and AM3	Noise monitoring at NM1a and NM2a Surface water quality monitoring at WM1 and WM2			24	
25	Air quality monitoring at AM2 and AM3 Noise monitoring at NM1a and NM2a	Air quality monitoring at AM1	28	29	Air quality monitoring at AM1, AM2 and AM3	3	

#### Remark:

- 1. 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).
- 2. Noise monitoring includes 30-minute construction noise monitoring at NM1a and NM2a (Ref.: Table 4.1 of the approved EM&A Manual).
- 3. 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).
- 4. Air quality monitoring at AM1 was postponed by one day to 27 June 2023 due to the electric supply.

# Appendix D Calibration Certificates

# Air Quality





Website www acuityth co

Unit E, 12/F, Ford Glory Plaza
Not. 37-39 Wing Hong Street,
Cheung Sha Wan, Kowloon

Tel.: (852) 2698 6833

# 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 Leachate 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 Test No.	Date	Time			K-Factor	Counts/ Minute (R)	Total Counts	TSP Sample	Dust Concentration (ug/m3), (C)
		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
		_	1 5/10		0.00114				

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

1.1

By Linear Regression of y on x:

slope, mh= 1.3204

intercept,ch= -8.3520

\*Correlation Coefficient,R= 0.9780

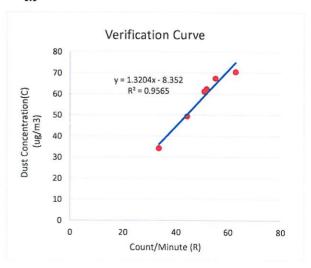
Verification Test Result: Strong Correlation, Results were accepted.

 $\mbox{*}$  If the Correlation Coefficient, R is <0.5. Checking and Re-verification are required.

Verified By:

Technical Manager

Date: 05-12-2022









Tel.: (852) 2698 6833

### 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 Leachate Treatment Works within the NENT Landfill

Standard Equip	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				

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

1.1

By Linear Regression of y on x:

slope, mh= 1.2417

intercept,ch= -8.6314

\*Correlation Coefficient,R=

0.9513

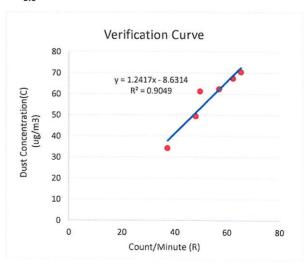
Verification Test Result: Strong Correlation, Results were accepted.

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

Verified By:

D 1 : 1)(

Date: 05-12-2022









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

Verification Test Date:

3-Dec-22

4-Dec-22 to

Next Verification Test Date:

2-Dec-23

Unit-under-Test- Model No.

Sibata LD-5R

Unit-under-Test Serial No.

882110

Our Report Refrence No.

RPT-22-HVS-0025

Calibration Location:

AM2, Located near the Leachate Treatment Works within the NENT Landfill

Standard Equi	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)		(TC)	ID No.	y axis
1	3/12/2022	194.73	198.08	201.00	0.00101	61	12194	R222043/1	61
2	3/12/2022	198.08	201.27	191.40	0.00089	38	7337	R222043/2	34
3	3/12/2022	201.27	204.35	184.80	0.00108	46	8439	R222043/3	49
4	4/12/2022	252.37	255.36	179.40	0.00110	61	11003	R222044/1	67
5	4/12/2022	255.38	258.38	180.00	0.00112	56	10080	R222044/2	62
6	4/12/2022	258.38	261.38	180.00	0.00104	68	12180	R222044/3	70
					0.00104				

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

1.0

By Linear Regression of y on x:

slope, mh=

1.1984

intercept,ch=

-8.3267

\*Correlation Coefficient,R=

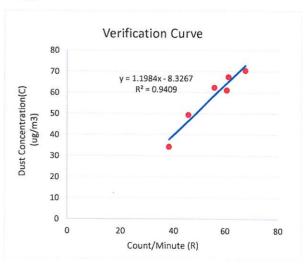
0.9700

Verification Test Result: Strong Correlation, Results were accepted.

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

Verified By:

Date: \_ 05-12-2022







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

4-Dec-22

Verification Test Date:

3-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 Leachate 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	0.00111	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						

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

1.1

By Linear Regression of y on x:

slope, mh=

1.1919

intercept,ch=

-5.3851

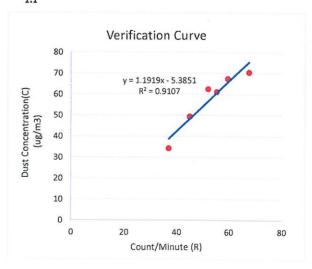
\*Correlation Coefficient,R=

0.9543

Verification Test Result: Strong Correlation, Results were accepted.

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

Date: 05-12-2022







### HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

#### Site Information

Location:	NENTX	Site ID:	AM1	Date:	06-May-2023
Serial No:	1105	Model:	TE-5170X	Operator:	Andy Li

#### **Ambient Condition**

Actual Pressure during Calibration (Pa) (mm Hg):	760.8	Actual Temperature during Calibration (T <sub>a</sub> ) (deg K):	297.2
--	-------	--	-------

#### **Calibration Orifice**

Model:	TE-5025A	Slope (m <sub>c</sub> ):	2.05924
Serial No.:	3465	Intercept (b <sub>c</sub> ):	-0.01929
Calibration Due Date:	28-Jun-23	Corr. Coeff:	0.99998

#### **Calibration Data**

Plate or	∆H <sub>2</sub> O	Qa, X-Axis	I, CFM	IC, Y-Axis
Test#	(in)	(m³/min) (chart)		(corrected)
18	9.60	1.517	54.0	54.10
13	7.80	1.368	50.0	50.09
10	5.90	1.191	45.0	45.08
7	3.70	0.945	39.0	39.07
5	2.50	0.779	36.0	36.07

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

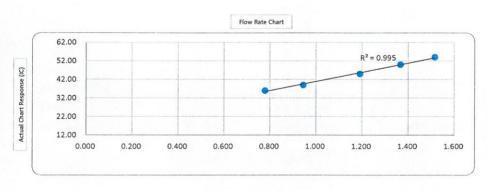
m=	24.7528	b=	16.1708	Corr. Coeff=	0.9975	
				12000 2000 Charles and Charles	5500 J. P. B. C. W. C. S.	

#### Calculations

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

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<sub>Std</sub> = 298 deg K P<sub>Std</sub> = 760 mm Hg

 $T_a$  = actual temperature during calibration (deg K)  $P_a$  = actual pressure during calibration (mm Hg)



Standard Flow Rate (m³/min)

Checked by: HUI WAI FUNG
Laboratory Manager

Date: 06-May-2023





#### **HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)**

#### Site Information

Location:	NENTX	Site ID:	AM2	Date:	06-May-2023
Serial No:	1106	Model:	TE-5170X	Operator:	Andy Li

#### **Ambient Condition**

Actual Pressure during Calibration (Pa) (mm Hg):	760.8	Actual Temperature during Calibration (T <sub>a</sub> ) (deg K):	297.2
--	-------	--	-------

#### **Calibration Orifice**

Model:	TE-5025A	Slope (m <sub>c</sub> ):	2.05924
Serial No.:	3465	Intercept (b <sub>c</sub> ):	-0.01929
Calibration Due Date:	28-Jun-23	Corr. Coeff:	0.99998

#### **Calibration Data**

Plate or	∆H <sub>2</sub> O	Qa, X-Axis	I, CFM	IC, Y-Axis
Test #	(in)	(m³/min)	(chart)	(corrected)
18	11.00	1.623	57.0	57.11
13	8.90	1.461	52.0	52.10
10	6.90	1.287	46.0	46.09
7	4.40	1.030	39.0	39.07
5	2.60	0.794	33.0	33.06

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

m= 29.1007 b= 9.4295 Corr. Coeff= 0.9983

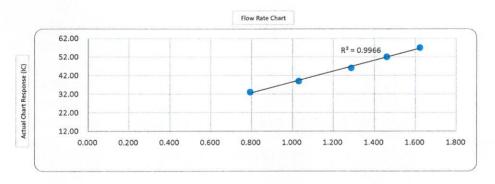
#### Calculations

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

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

m = sampler slope b = sampler intercept T<sub>Std</sub> = 298 deg K P<sub>Std</sub> = 760 mm Hg

 $T_a$  = actual temperature during calibration (deg K)  $P_a$  = actual pressure during calibration (mm Hg)



Standard Flow Rate (m³/min)

Checked by: HUI WAI FUNG
Laboratory Manager



Date: \_

06-May-2023





### HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

#### Site Information

Location:	NENTX	Site ID:	AM3	Date:	06-May-2023
Serial No:	1856	Model:	TE-5170X	Operator:	Andy Li

#### **Ambient Condition**

Actual Pressure during Calibration (P <sub>a</sub> ) (mm Hg):	760.8	Actual Temperature during Calibration (T <sub>a</sub> ) (deg K):	297.2
( 1.9).		( 6/ ( - 0 - /	

#### **Calibration Orifice**

Model:	TE-5025A	Slope (m <sub>c</sub> ):	2.05924
Serial No.:	3465	Intercept (b <sub>d</sub> ):	-0.01929
Calibration Due Date:	28-Jun-23	Corr. Coeff:	0.99998

#### **Calibration Data**

Plate or	∆H <sub>2</sub> O	Qa, X-Axis	I, CFM	IC, Y-Axis
Test #	(in)	(m³/min)	(chart)	(corrected)
18	10.60	1.593	62.0	62.12
13	8.20	1.403	57.0	57.11
10	6.20	1.221	52.0	52.10
7	4.20	1.006	45.0	45.08
5	2.30	0.747	40.0	40.07

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

m=	26.7568	b=	19.3460	Corr. Coeff=	0.9968	
A CONTROL OF THE PARTY OF THE P			U.S. S. C.	200 C		

#### Calculations

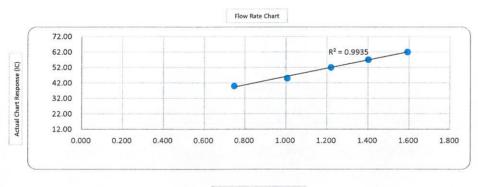
 $Qa = 1/m_c^*[Sqrt (\Delta H_2O^*(P_a/P_{Std})^*(T_{Std}/T_a)) - b_c]$  $IC = I*(Sqrt(P_a/P_{Std})*(T_{Std}/T_a))$ 

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

b<sub>c</sub> = calibrator intercept

m = sampler slope b = sampler intercept T<sub>Std</sub> = 298 deg K P<sub>Std</sub> = 760 mm Hg

T<sub>a</sub> = actual temperature during calibration (deg K) P<sub>a</sub> = actual pressure during calibration (mm Hg)



Standard Flow Rate (m³/min)

Checked by: HUI WAI FUNG Laboratory Manager



Date: 06-May-2023



# RECALIBRATION DUE DATE:

June 28, 2023

# Certificate of Calibration

**Calibration Certification Information** 

Cal. Date: June 28, 2022

Rootsmeter S/N: 438320

Ta: 296

°K

Operator: Jim Tisch

Pa: 755.1

mm Hg

Calibration Model #:

TE-5025A

Calibrator S/N: 3465

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4290	3.2	2.00
2	3	4	1	1.0130	6.4	4.00
3	5	6	1	0.9050	7.9	5.00
4	7	8	1	0.8590	8.8	5.50
5	9	10	1	0.7110	12.8	8.00

		Data Tabula	tion		
Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$		Qa	√∆H(Ta/Pa)
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(y-axis)
0.9961	0.6970	1.4144	0.9958	0.6968	0.8854
0.9918	0.9791	2.0003	0.9915	0.9788	1.2522
0.9899	1.0938	2.2364	0.9895	1.0934	1.4000
0.9887	1.1509	2.3456	0.9883	1.1506	1.4683
0.9834	1.3831	2.8289	0.9830	1.3826	1.7708
	m=	2.05924		m=	1.28946
<b>QSTD</b>	b=	-0.01929	QA	b=	-0.01207
	r=	0.99998		r=	0.99998

	Calculation	ıs	
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/∆Time	Qa=	Va/ΔTime
	For subsequent flow rat	e calculatio	ns:
Qstd=	$1/m \left( \sqrt{\Delta H \left( \frac{Pa}{Pstd} \right) \left( \frac{Tstd}{Ta} \right)} \right) - b $	Qa=	$1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$

	Standard Conditions
Tstd:	298.15 °K
Pstd:	760 mm Hg
	Key
ΔH: calibrator	manometer reading (in H2O)
ΔP: rootsmete	er manometer reading (mm Hg)
	olute temperature (°K)
	ometric pressure (mm Hg)
b: intercept	
m: slope	

#### RECALIBRATION

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

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

www.tisch-env.com

TOLL FREE: (877)263-7610

FAX: (513)467-9009

# **Noise**

# Certificate of Calibration

for

Description:

Sound Level Meter

Manufacturer:

NTi Audio

Type No.:

XL2 (Serial No.: A2A-13661-E0)

Microphone:

ACO 7052 (Serial No.:68914)

Preamplifier:

NTi Audio MA220 (M2211) (Serial No.:6282)

### Submitted by:

Customer:

Acuity Sustainability Consulting Limited

Address:

Unit E, 12/F., Ford Glory Plaza,

Nos. 37-39 Wing Hong Street,

Cheung Sha Wan, Kowloon, Hong Kong

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

Within (31.5Hz – 8kHz)

☐ Outside

the allowable tolerance.

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

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

Date of receipt: 20 August 2022

Date of calibration: 22 August 2022

Date of NEXT calibration: 21 August 2023

Calibrated by:

Calibration Technician

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 22 August 2022

Certificate No.: APJ22-071-CC001

MR TESTING LABORATION (A+A) \*L

Page 1 of 4

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

#### Calibration Precaution: 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 Conditions:

Air Temperature:

23.4 °C

Air Pressure:

1005 hPa

Relative Humidity:

68.5 %

#### 3. Calibration Equipment:

Type

Serial No.

Calibration Report Number

Traceable to

**Multifunction Calibrator** 

B&K 4226

2288467

AV220061

**HOKLAS** 

#### 4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)		Applied value		UUT Reading,	IEC 61672 Class 1		
Range, dB	Freq. \	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	93.8	±0.4

#### Linearity

Setting of Unit-under-test (UUT)		Applied value		UUT Reading,	IEC 61672 Class 1		
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		93.8	Ref
30-130	dBA	SPL	Fast	104	1000	103.8	±0.3
			114		114.0	±0.3	

#### Time Weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	93.8	Ref
30-130 UBA	SIL	Slow	94	1000	93.8	±0.3	

Certificate No.: APJ22-071-CC001

Page 2 of 4

Homepage: http://www.aa-lab.com



#### Frequency Response

#### Linear Response

Sett	Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Wo	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	93.9	±2.0
					63	94.0	±1.5
×					125	93.9	±1.5
					250	93.8	±1.4
30-130	dB	SPL	Fast	94	500	93.8	±1.4
					1000	93.8	Ref
					2000	93.4	±1.6
					4000	93.0	±1.6
					8000	92.2	+2.1; -3.1

### A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	54.6	-39.4 ±2.0
					63	67.7	-26.2 ±1.5
					125	77.8	-16.1 ±1.5
					250	85.2	-8.6 ±1.4
30-130	dBA	SPL	Fast	94	500	90.6	-3.2 ±1.4
					1000	93.8	Ref
					2000	94.6	+1.2 ±1.6
					4000	94.0	$+1.0\pm1.6$
					8000	91.2	-1.1 +2.1; -3.1

## C-weighting

Setting of Unit-under-test (UUT)		Applied value		UUT Reading,	IEC 61672 Class 1		
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	90.9	-3.0 ±2.0
					63	93.1	$-0.8 \pm 1.5$
					125	93.7	-0.2 ±1.5
					250	93.8	$-0.0\pm1.4$
30-130	dBC	SPL	Fast	94	500	93.8	$-0.0\pm1.4$
					1000	93.8	Ref
					2000	93.3	-0.2 ±1.6
					4000	92.2	-0.8 ±1.6
					8000	89.3	-3.0 +2.1; -3.1

Certificate No.: APJ22-071-CC001



Page 3 of 4



### 5. Calibration Results Applied

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

Uncertainties of Applied Value:

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

The uncertainties are evaluated for a 95% confidence level.

#### Note:

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

MAR TESTING LABORING (A+A) \*L

Page 4 of 4

Homepage: http://www.aa-lab.com

E-mail: inquiry@aa-lab.com

Certificate No. D224349E



## CALIBRATION CERTIFICATE

Product : SOUND CALIBRATOR

Type : NC-75

Serial number : 34724243

Manufacturer : RION CO., LTD.

Calibration quantities : Sound pressure level (with reference standard microphone)

Calibration method : Measured by specified secondary standard microphone

according to JCSS calibration procedure specified by RION.

Ambient conditions : Temperature 23.9 °C, Relative humidity 49 %,

Static pressure 99.9 kPa

Calibration date : 05/07/2022 (DD/MM/YYYY)

Calibration location : 3-20-41 Higashimotomachi, Kokubunji, Tokyo 185-8533, Japan

RION CO., LTD. Calibration Room

We hereby certify that the results of this calibration were as follows.

Issue date: 11/07/2022 (DD/MM/YYYY)

Junichi Kawamura
Manager
Quality Assurance Section,
Quality Assurance Department,
Environmental Instrument Division,
RION CO., LTD.

3-20-41 Higashimotomachi, Kokubunji,

Tokyo 185-8533, Japan

This certificate is based on article 144 of the Measurement Law and indicates the result of calibration in accordance with measurement standards traceable to Primary Measurement Standards (National Standards) which realizes the physical units of measurement according to the International System of Units (SI).

The accreditation symbol is attestation of which the result of calibration is traceable to Primary Measurement Standards (National Standards).

The certificate shall not be reproduced except in full, without the written approval of the issuing laboratory.

The calibration laboratory who issued this calibration certificate conforms to ISO/IEC 17025:2017.

This calibration certificate was issued by the calibration laboratory accredited by IAJapan who is a signatory to the Mutual Recognition Arrangement (MRA) of International Laboratory Accreditation Cooperation (ILAC) and Asia Pacific Accreditation Cooperation (APAC). This (These) calibration result(s) may be accepted internationally through ILAC/APAC MRA.



Certificate No. D224349E

## CALIBRATION RESULT

1. Sound pressure level (with reference standard microphone)

Measured	Expanded
value	uncertainty *1
93.99 dB	0.09 dB

Specified secondary standard microphone:

Type

: 4160

Serial number : 2973341

Reference Sound pressure: 2×10.5 Pa

\*1 Defines an interval estimated to have a level of confidence of approximately 95 %.

Coverage factor k=2

Calibration result is the calibration value in ambient conditions during calibration.

### BE OUT OF JCSS CALIBRATION

#### 1. Frequency

M	Measurement
Measured value	uncertainty (k=2)
1000.0 Hz	$3.9 \times 10^{-4}  \mathrm{Hz}$

Working measurement standard universal counter:

: 53132A

Serial number : MY40005574

(JCSS Calibration Certificate No. 21081499079575510)

#### 2. Total distortion

Measured	
value	181770
0.2 %	

Working measurement standard distortion meter:

: VA-2230A

Serial number : 11076061

(A2LA Calibration Certificate No. 1501-03080)

- closing -







## **Calibration Certificate**

Certificate No. 300737

Page

2 Pages

Customer: Acuity Sustainability Consulting Limited

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

Order No.: Q30320

Date of receipt

2-Feb-23

**Item Tested** 

**Description**: Hot Wire Anemometer

Manufacturer: RS PRO

I.D.

ASCL-EQ-111

Model

: RS-90

Serial No.

: 210722208

**Test Conditions** 

Date of Test: 13-Feb-23

**Supply Voltage** 

**Ambient Temperature:** 

 $(23 \pm 3)^{\circ}C$ 

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 :

13-Feb-23

Date:

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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E



## **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	1 (2 0/ - 6 1: + 0 2/ )
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



### 專業化驗有限公司 QUALITY PRO TEST-CONSULT LIMITED

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

#### REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BC050055

Date of Issue

: 17 May 2023

Page No.

: 1 of 2

#### PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited

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

**PART B - SAMPLE INFORMATION** 

Name of Equipment:

HORIBA U-53

Manufacturer:

HORIBA

Serial Number:

PORBNFNT

Date of Received:

11 May 2023

Date of Calibration:
Date of Next Calibration:

17 May 2023 16 August 2023

Request No.:

D-BC050055

#### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

**Test Parameter** 

Reference Method

pH value

APHA 21e 4500 H+

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 21e 4500 O

Turbidity

APHA 21e 2130 B

#### PART D - CALIBRATION RESULT

#### (1) pH value

Target ( pH unit )	Display Reading (pH unit)	Tolerance	Result
4.00	4.14	0.14	Satisfactory
7.42	7.45	0.03	Satisfactory
10.01	10.06	0.05	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
16	17.5	1.5	Satisfactory
24	25.7	1.7	Satisfactory
32	32.3	0.3	Satisfactory

Tolerance of Temperature should be less than  $\pm 2.0$  ( °C )

#### (3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.66	-3.40	Satisfactory
20	19.52	-2.40	Satisfactory
30	30.20	0.67	Satisfactory

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

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning
Assistant Manager (Chemical Testing)



### 專業化驗有限公司 QUALITY PRO TEST-CONSULT LIMITED

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

### REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BC050055

**Date of Issue** 

: 17 May 2023

Page No.

: 2 of 2

#### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
8.22	7.88	-0.34	Satisfactory
4.31	3.90	-0.41	Satisfactory
1.81	1.37	-0.44	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	0.00		Satisfactory
10	10.8	8.00	Satisfactory
20	20.0	0.00	Satisfactory
100	106	6,00	Satisfactory
800	811	1.40	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. 210252

Page 2 Pages

Customer: Acuity Sustainability Consulting Limited

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

Order No.: Q24081

Date of receipt

31-Oct-22

Item Tested

Description : Flow Probe

Manufacturer: Global Water

I.D.

Model

: FP111

Serial No.

: 22K100859

**Test Conditions** 

Date of Test:

7-Nov-22

Supply Voltage : --

Ambient Temperature :

23°C

Relative Humidity: 78%

**Test Specifications** 

Calibration check.

Ref. Document/Procedure: V12

**Test Results** 

All results were within the manufacturer's specification.

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

Main Test equipment used:

Equipment No. Description

Cert. No.

Traceable to

S179

Std. Tape

201868

NIM-PRC

S136A

Stop Watch

201878

SCL-HKSAR

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

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

Calibrated by :

Kin Wong

Approved by:

This Certificate is issued by

Hong Kong Calibration Ltd.

7-Nov-22

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



## **Calibration Certificate**

Certificate No. 210252

Page 2 of 2 Pages

Results:

Applied Value (m/s)	UUT Reading (m/s)	Mfr's Spec.
0.96	1.0	± 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**

## PROMAT (HK) LTD

寶時(香港)有限公司

901 New Trend Centre, 704 Prince Edward Road East, San Po Kong, Kowloon, Hong Kong Tel: (852)2661-2392 Fax: (852)2661-2086 Email:info@promat.hk. http://www.premat.hk



# **Calibration Certificate**

**Customer Name** 

Paul Y Construction Co. Ltd

Model

PS200

Serial

373075

Tested On

16 November, 2022

Cal Expires

16 November, 2023.

Audible Alarm

PASS

Visual Alarm

PASS

Calibrated For

**METHANE** 

100% LEL Equivalent

4.4% by VOL

**Overall Results** 

PASS

#### Calibration Result

Gas Applied	Range	Reading	Calibrated	Result
Zero Air	% LEL	0	0	PASS
Zero Air	% O2	20.9	20.9	PASS
Zero Air	РРМ СО	0	0	PASS
Zero Air	PPM H2S	0	0	PASS

Gas Applied	Range	Reading	Calibrated	Result
50% LEL Methane	% LEL	61	50	PASS
18% VOL Oxygen	% O2	17.8	N/A	PASS
100 PPM Carbon Monoxide	РРМ СО	71	100	PASS
25 PPM Hydrogen Sulphide	PPM H2S	22	25	PASS

Calibrated By Ivan Lo:



# CERTIFICATION OF CALIBRATION







Date Of Calibration: 17-Aug-2022 Certificate Number: G508566\_2/31066

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: G508566

#### **UKAS** Accredited results:

Methane (CH₄)			
Certified Gas (%) Instrument Reading (%) Uncertainty (%)			
5.0	4.9	0.072	
15.0	14.9	0.13	
60.0	59.6	0.42	

Carbon Dioxide (CO₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	5.0	0.074
15.0	14.9	0.13
40.0	40.0	0.29

	Oxygen (O₂)	
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
21.2	21.3	0.25

All concentrations are molar.

CH<sub>4</sub>, CO<sub>2</sub> readings recorded at :

33.0 °C ± 2.5 °C

O2 readings recorded at :

22.7 °C ± 2.5 °C

Barometric Pressure:

1002 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: 114 IGC Instance: N/A

Page 1 of 2 | LP015GIUKAS-2.5

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

## CERTIFICATION OF CALIBRATION







Certificate Number: G508566 2/31066

Date Of Calibration: 17-Aug-2022

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	
1002	1002	

	Additional Gas Cells	
Gas	Certified Gas (ppm)	Instrument Reading (ppm)
H <sub>2</sub> S	52.6	53

Date of Issue: 18-Aug-2022

Approved by Signatory

Keeley Knight

Laboratory Inspection

End of Certificate

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

Calibration Instance: 114 IGC Instance: N/A

Page 2 of 2 | LP015GIUKAS-2.5

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## 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	Action Level	Limit Level
Date	Brand & Model	Serial No.	K-lactoi	vveatilei	Sampling Time (1)	Sampling Time (2)	Sampling Time (5)	μg/m <sup>3</sup>	μg/m <sup>3</sup>	μg/m <sup>3</sup>	μq/m <sup>3</sup>	μg/m <sup>3</sup>	μg/m <sup>3</sup>	μg/m <sup>3</sup>	μg/m <sup>3</sup>
2/6/2023	Sibata LD-5R	942532	0.00108	Fine	11:00	12:00	13:00	36	38	31	35			285	500
8/6/2023	Sibata LD-5R	942532	0.00108	Fine	11:20	12:20	13:20	16	24	19	20			285	500
14/6/2023	Sibata LD-5R	942532	0.00108	Cloudy	11:45	12:20 13:20 12:45 13:45 16:00 17:00	21	23	20	21	285	500	285	500	
20/6/2023	Sibata LD-5R	942532	0.00108	Fine	15:00	16:00	17:00	24	28	25	26	203	300	285	500
27/6/2023	Sibata LD-5R	942532	0.00108	Fine	10:00	11:00	12:00	31	36	29	32			285	500
30/6/2023	Sibata LD-5R	942532	0.00108	Cloudy	10:40	11:40	12:40	31	34	30	32			285	500
							Average		28						
							Max.		38						
							Min.		15						

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

	concentration (µg	, , at <b>=</b> 00at													
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	Action Level	Limit Level
2410	Brand & Model	Serial No.	it idoto.	11000	camping time (1)	Cumping Time (2)	Cumping Time (c)	μg/m <sup>3</sup>	μg/m³	μg/m <sup>3</sup>	μg/m <sup>3</sup>				
2/6/2023	Sibata LD-5R	882106	0.00107	Fine	11:15	12:15	13:15	26	34	34	31			279	500
8/6/2023	Sibata LD-5R	882106	0.00107	Fine	14:44	15:44 16:	16:44	21	29	23	24			279	500
14/6/2023	Sibata LD-5R	882106	0.00107	Cloudy	10:51	11:51	12:51	26	35	30	30	279	500	279	500
20/6/2023	Sibata LD-5R	882106	0.00107	Cloudy	14:30	15:30	16:30	41	45	40	42	219	300	279	500
26/6/2023	Sibata LD-5R	882106	0.00107	Fine	11:30	12:30	13:30	29	37	28	31			279	500
30/6/2023	Sibata LD-5R	882106	0.00107	Cloudy	10:50	11:50	12:50	21	32	23	25			279	500
							Average		31						
							Max.	45							
							Min.		21						

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	Action Level	Limit Level
Duto	Brand & Model	Serial No.	11-luctor	Weather	Cumpling Time (1)	Camping Time (2)	Camping Time (c)	μg/m <sup>3</sup>	μg/m <sup>3</sup>	μg/m <sup>3</sup>	µg/m³	μg/m <sup>3</sup>	μg/m <sup>3</sup>	μg/m <sup>3</sup>	μg/m <sup>3</sup>
2/6/2023	Sibata LD-5R	0Z4545	0.00114	Fine	11:45	12:45	13:45	39	40	44	41			285	500
8/6/2023	Sibata LD-5R	0Z4545	0.00114	Fine	11:50	12:50 13:50 12:19 13:19	13:50	21	29	29	26			285	500
14/6/2023	Sibata LD-5R	0Z4545	0.00114	Cloudy	11:19	12:19 13:19	13:19	30	34	33	30	285	500	285	500
20/6/2023	Sibata LD-5R	0Z4545	0.00114	Fine	14:00	15:00	16:00	31	36	32	42	203	300	285	500
26/6/2023	Sibata LD-5R	0Z4545	0.00114	Fine	11:01	12:01	13:01	31	45	36	37			285	500
30/6/2023	Sibata LD-5R	0Z4545	0.00114	Cloudy	10:20	11:20	12:20	24	30	26	27			285	500
							Average								
							Max.		45						
									24						

#### Remarks:

The 1-hr TSP Monitoring at AM1 was postponded by one day to 27 June 2023 due to the electirc supply.

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

Start Date	Weather	Avg Air Temp	Avg Atmospheric Pressure	Elapse	Time	Sampling Time	Averaged Flow Rate	Averaged Flow Rate	Total Flow Volume	Filter W	eight (g)	Particulate weight	Concentration	Action Level	Limit Level
	Condition	(°C)	(hPa)	Initial	Final	(minutes)	(cfm)	(m³/min)	(m <sup>3</sup> )	Initial	Final	(g)	(µg/m³)	(µg/m³)	(µg/m3)
2/6/2023	Fine	30.8	1006.2	1191.47	1215.47	1440	40	0.94	1348	2.6747	2.8023	0.1276	95		
8/6/2023	Fine	32.9	1005.7	1215.47	1239.47	1440	40	0.93	1339	2.6748	2.7240	0.0492	37		
14/6/2023	Cloudy	27.6	1005.0	1254.52	1278.52	1440	40.5	0.96	1386	2.6650	2.7177	0.0527	38	164	260
20/6/2023	Fine	28.4	1007.4	1278.52	1302.52	1440	39.5	0.92	1331	2.6671	2.7114	0.0443	33	104	200
27/6/2023	Fine	29.5	1009.7	1302.54	1326.54	1440	40	0.95	1361	2.7502	2.8205	0.0703	52		
30/6/2023	Cloudy	26.8	1006.3	1326.54	1350.54	1440	40	0.95	1363	2.7495	2.7882	0.0387	28		
												Average	47		
												Min	28		
									Max	95					

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

Start Date	Weather	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
	Condition	(°C)	(hPa)	Initial	Final	(minutes)	(cfm)	(m³/min)	(m <sup>3</sup> )	Initial	Final	(g)	(µg/m³)	(µg/m³)	(µg/m3)
2/6/2023	Fine	30.8	1006.2	964.46	988.46	1440	41	1.06	1529	2.6750	2.7578	0.0828	54		
8/6/2023	Fine	32.9	1005.7	988.46	1012.46	1440	39.5	1.01	1448	2.6658	2.7441	0.0783	54		
14/6/2023	Cloudy	27.6	1005.0	1012.46 1036.46	1440	40	1.03	1488	2.6576	2.7108	0.0532	36	152	260	
20/6/2023	Fine	28.4	1036.5	1036.46	1060.46	1440	40	1.03	1490	2.6587	2.7136	0.0549	37	132	200
26/6/2023	Fine	29.5	1009.9	1060.46	1084.46	1440	40.5	1.05	1516	2.6977	2.7459	0.0482	32		
30/6/2023	Cloudy	26.8	1006.3	1084.46	1108.46	1440	40	1.04	1493	2.6614	2.7088	0.0474	32		
												Average	41		
												Min	32		
												Max	54		

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

Start Date	Weather Condition	Avg Air Temp	Avg Atmospheric Pressure	Elapse	Time	Sampling Time	Averaged Flow Rate	Flow Rate	Total Flow Volume	Filter W	eight (g)	Particulate weight	Concentration	Action Level	Limit Level
	Condition	(°C)	(hPa)	Initial	Final	(minutes)	(cfm)	(m³/min)	(m <sup>3</sup> )	Initial	Final	(g)	(µg/m³)	(µg/m³)	(µg/m3)
2/6/2023	Fine	30.8	1006.2	1971.67	1995.67	1440	39	0.71	1023	2.6577	2.7908	0.1331	130		
8/6/2023	Fine	32.9	1005.7	1995.67	2019.67	1440	41.5	0.80	1147	2.6758	2.8023	0.1265	110		
14/6/2023	Cloudy	27.6	1005.0	2019.67	2043.67	1440	39.5	0.73	1058	2.6601	2.7270	0.0669	63	163	260
20/6/2023	Fine	28.4	1007.2	2043.69	2067.69	1440	41	0.79	1140	2.6637	2.7305	0.0668	59	100	200
26/6/2023	Fine	29.5	1009.7	2067.69	2091.69	1440	42	0.83	1195	2.6818	2.7854	0.1036	87		
30/6/2023	Cloudy	26.8	1006.3	2091.69	2115.69	1440	42	0.83	1197	2.6674	2.7184	0.0510	43		
		-										Average	82		
												Min	43		

Max

- Remarks:

  1. Orange Text equal to exceed Action Level

  2. Red Text equal to exceed Limit Level

  3. The 24-hr TSP Monitoring at AM1 was postponded by one day to 27 June 2023 due to the electirc supply.

# **Noise**

Impact Phase Construction Noise Monitoring Data at Location NM1a

Date	Weather	Wind speed	Start Time	End Time				L <sub>ec</sub>	, (dB(/	<b>4</b> ))				L 10 (C	IB(A))					L 90 (C	IB(A))		
Date	weather	m/s	Start Tille	Elia Illile	1st	2nd	3rd	4th	5th	6th	Overall (30min)	1st	2nd	3rd	4th	5th	6th	1st	2nd	3rd	4th	5th	6th
8/6/2023	Fine	2.1	11:00	11:30	61.4	61.9	60.4	61.1	61.9	62.2	61.5	63.4	63.2	60.4	61.1	61.9	62.2	59.4	59.1	58.2	59.4	58.8	57.2
14/6/2023	Cloudy	2.1	11:20	11:50	59.4	60.2	61.2	58.2	60.4	61.1	60.2	61.9	63.3	64.2	62.2	63.6	64.2	55.8	57.1	58.2	57.4	56.6	55.2
21/6/2023	Fine	0.3	14:00	14:30	56.2	51.6	52.9	53.3	51.6	53.4	53.5	61.7	52.8	54.5	55	53	54.5	50.2	49.6	50.8	49.7	49.1	50.2
26/6/2023	Fine	3.1	11:50	12:20	54.3	53.3	54.4	53.6	54.1	55.1	54.2	56.2	55.2	56.4	56.1	56.9	56.6	50.9	50.2	51.2	52.3	51.6	50.6

Average 58.6

Baseline Level 55.4

Action Level When one valid documented complaint is received

Limit Level 75

Impact Phase Construction Noise Monitoring Data at Location NM2a

		Wind anad		Ĭ					, (dB(/	<b>1</b> 1)		1		L 10 (d	IR/A\\					1 (c	IB(A))		$\neg$
Date	Weather	Wind speed	Start Time	Fnd Time				<u> </u>	(ub)	<del>'</del> '))				L 10 (U	ID(A))					<u> </u>	ID(A))		
Date	Weather	m/s	Otart Time	Liia iiiie	1st	2nd	3rd	4th	5th	6th	Overall (30min)	1st	2nd	3rd	4th	5th	6th	1st	2nd	3rd	4th	5th	6th
8/6/2023	Fine	3.1	16:00	16:30	57.4	58.1	59.2	57.2	56.4	57.1	57.7	58.1	59.9	61.2	58.9	57.7	59.1	53.2	52.3	53.4	51.9	52.8	53.4
14/6/2023	Cloudy	2.1	14:00	14:30	53.2	52.4	54.1	54.6	55.1	53.6	53.9	54.5	53.4	55.2	56.2	59.1	54.6	50.3	51.4	52.1	52.4	53.2	51.2
21/6/2023	Fine	0.7	16:00	16:30	47.5	46.5	47.1	48.2	51.5	47.9	48.5	48.3	48	47.9	48.9	47.9	48	42.4	44.5	43.4	42.9	44.2	44.4
26/6/2023	Fine	3.2	16:00	16:30	49.1	50.1	51.2	49.4	48.1	48.3	49.5	51.9	52.2	52.9	51.4	51.1	52.6	45.2	46.2	45.1	46.6	44.2	45.1
								<i>-</i>	verag	е	53.9												

Average 53.9

Baseline Level 54.5

Action Level When one valid documented complaint is received

Limit Level 75

Water Quality

#### Monitoring Location: WM1

Date	Time	Weather	Water Depth (m)	Water Flow (L/s)	Water Temperature		DO (mg/L)			рН			Turbidity (NTU)			SS (mg/L)	
					( )	Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level	Value	Action Level	Limit Level
21-Jun-23	16:05	Fine	0.05	0.5	28.0	7.6	<7.4	<4	7.1	>7.7	>7.8	5.7	>9.2	>9.5	6.6	>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
21-Jun-23	14:03	Fine	0.15	0	27.3	6.7	<5	<4	7.2	>7.6	>7.7	142.5	>108.3	>108.9	83.2	>94.5	>94.7

#### Remarks

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

## **ALS Technichem (HK) Pty Ltd**



## **ALS Laboratory Group**

ANALYTICAL CHEMISTRY & TESTING SERVICES

### CERTIFICATE OF ANALYSIS

Client : ACUMEN LABORATORY AND TESTING LIMITED

: HUNTINGTON HUI

Address : UNIT D, 12/F, FORD GLORY PLAZA, NOS.37-39 WING HONG

STREET, CHEUNG SHA WAN, KOWLOON, HONG KONG

E-mail : Huntington.Hui@aurecongroup.com

Telephone : --

Contact

Facsimile : ---

Project : **NENTX** 

Order number : ----

C-O-C number : ----

Site

Laboratory

Contact

Address

E-mail

Quote

number

: ALS Technichem (HK) Pty Ltd

Page

Work Order

: 1 of 9

: HK2324385

: Richard Fung

: 11/F., Chung Shun Knitting Centre, 1 - 3 Wing

Yip Street, Kwai Chung, N.T., Hong Kong

: richard.fung@alsglobal.com

Telephone : +852 2610 1044

Facsimile : +852 2610 2021

: HKE/2751/2022\_V2

Date Samples Received : 21-Jun-2023

Issue Date : 06-Jul-2023

No. of samples received : 2

No. of samples analysed : 2

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Signatories
Richard Jung

Fung Lim Chee, Richard

Managing Director

Position

Inorganics

Authorised results for

Fung Lim Chee, Richard

Managing Director

Metals ENV

Az

Ng Sin Kou, May

**Laboratory Manager** 

Microbiology\_ENV

Page Number : 2 of 9

Client : ACUMEN LABORATORY AND TESTING LIMITED

Work Order HK2324385



#### 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 21-Jun-2023 to 05-Jul-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: HK2324385

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 17:50.

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

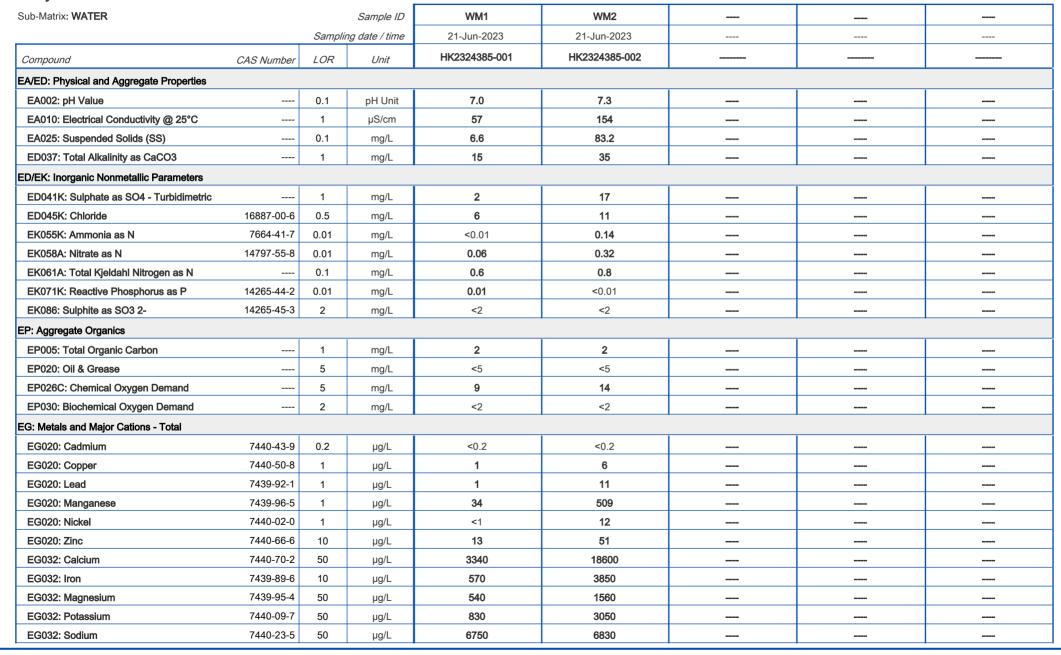
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Client

: ACUMEN LABORATORY AND TESTING LIMITED

Work Order HK2324385

#### Analytical Results





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Client

ACUMEN LABORATORY AND TESTING LIMITED

Work Order HK2324385



Sub-Matrix: WATER			Sample ID	WM1	WM2	 	
		Samplii	ng date / time	21-Jun-2023	21-Jun-2023	 	
Compound	CAS Number	LOR	Unit	HK2324385-001	HK2324385-002	 <b>*</b> ***********************************	
EM: Microbiological Testing							
EM002: E. coli		1	CFU/100mL	160	2800	 	
EM003: Total Coliforms		1	CFU/100mL	220	4200	 	

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Client

: ACUMEN LABORATORY AND TESTING LIMITED

Work Order

HK2324385

#### Laboratory Duplicate (DUP) Report

Matrix: WATER					Labo	ratory Duplicate (DUP)	Report		
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	
EA/ED: Physical and A	ggregate Properties (QC Lo	ot: 5130115)							
HK2324385-002	WM2	EA025: Suspended Solids (SS)		0.5	mg/L	83.2	82.7	0.6	
EA/ED: Physical and A	ggregate Properties (QC Lo	ot: 5130573)							
HK2324234-001	Anonymous	EA010: Electrical Conductivity @ 25°C		1	μS/cm	211	211	0.0	
EA/ED: Physical and A	ggregate Properties (QC Lo	ot: 5130574)							
HK2324384-001	Anonymous	EA002: pH Value		0.1	pH Unit	7.4	7.4	0.0	
HK2324399-001	Anonymous	EA002: pH Value		0.1	pH Unit	8.0	8.0	0.0	
EA/ED: Physical and A	ggregate Properties (QC Lo	ot: 5130602)							
HK2324297-001	Anonymous	ED037: Total Alkalinity as CaCO3		1	mg/L	<1	<1	0.0	
ED/EK: Inorganic Nonn	netallic Parameters (QC Lo	t: 5130203)							
HK2324178-003	Anonymous	ED041K: Sulphate as SO4 - Turbidimetric		1	mg/L	23	23	0.0	
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5130205)									
HK2324385-001	WM1	ED045K: Chloride	16887-00-6	1	mg/L	6	6	0.0	
ED/EK: Inorganic Nonn	netallic Parameters (QC Lo	t: 5130206)							
HK2324385-001	WM1	EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	0.01	0.01	0.0	
ED/EK: Inorganic Nonn	netallic Parameters (QC Lo	t: 513021 <u>1</u> )							
HK2324385-001	WM1	EK055K: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	<0.01	0.0	
ED/EK: Inorganic Nonn	netallic Parameters (QC Lo	t: 5136653)			1				
HK2324080-001	Anonymous	EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2	<2	0.0	
ED/EK: Inorganic Nonn	netallic Parameters (QC Lo	t: 5151752)							
HK2324385-001	WM1	EK061A: Total Kjeldahl Nitrogen as N		0.1	mg/L	0.6	0.6	0.0	
EP: Aggregate Organic	s (QC Lot: 5139108)				1				
HK2324856-001	Anonymous	EP005: Total Organic Carbon		1	mg/L	<50	<50	0.0	
EP: Aggregate Organic	s (QC Lot: 5151348)								
HK2321471-001	Anonymous	EP026C: Chemical Oxygen Demand		5	mg/L	6	6	0.0	
EG: Metals and Major (	Cations - Total (QC Lot: 51	30258)							
HK2324385-002	WM2	EG032: Iron	7439-89-6	10	μg/L	3850	3610	6.5	
		EG032: Calcium	7440-70-2	50	μg/L	18600	18400	1.5	
		EG032: Magnesium	7439-95-4	50	μg/L	1560	1530	2.3	
		EG032: Potassium	7440-09-7	50	μg/L	3050	2970	2.6	
		EG032: Sodium	7440-23-5	50	μg/L	6830	6700	1.9	

Client

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: ACUMEN LABORATORY AND TESTING LIMITED

Work Order

HK2324385



Matrix: WATER	atrix: WATER			Laboratory Duplicate (DUP) Report					
Laboratory	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate	RPD (%)	
sample ID							Result		
EG: Metals and Major Cati	ons - Total (QC Lot: 5130259)								
HK2324385-002	WM2	EG020: Cadmium	7440-43-9	0.2	μg/L	<0.2	<0.2	0.0	
		EG020: Copper	7440-50-8	1	μg/L	6	7	0.0	
		EG020: Lead	7439-92-1	1	μg/L	11	11	0.0	
		EG020: Manganese	7439-96-5	1	μg/L	509	506	0.7	
		EG020: Nickel	7440-02-0	1	μg/L	12	12	0.0	
		EG020: Zinc	7440-66-6	10	μg/L	51	51	0.0	

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

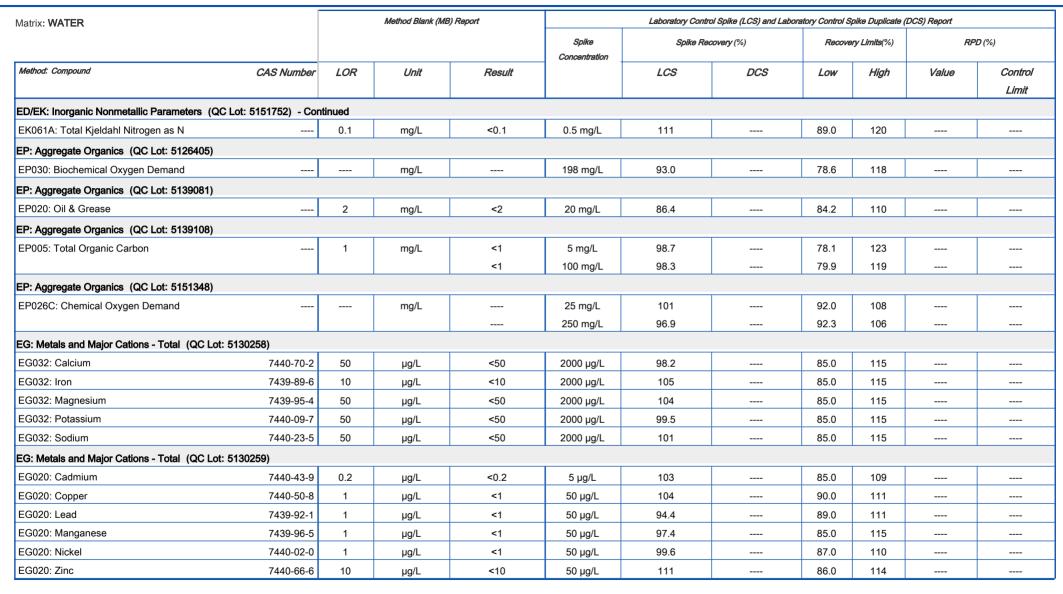
Matrix: WATER		Method Blank (MB) Report			Laboratory Control Spike (LCS) and Laboratory Control Spike Duplicate (DCS) Report						
				Spike Concentration	Spike R	ecovery (%)	overy (%) Recovery Limits(%)		RP	PD (%)	
Method: Compound	CAS Number	LOR	Unit	Result		LCS	DCS	Low	High	Value	Control Limit
EA/ED: Physical and Aggregate Properties (QC	Lot: 5130115)							·			
EA025: Suspended Solids (SS)		0.5	mg/L	<0.5	10 mg/L	98.5		82.4	118		
EA/ED: Physical and Aggregate Properties (QC	Lot: 5130573)										
EA010: Electrical Conductivity @ 25°C		1	μS/cm	<1	146.9 µS/cm	101		93.5	106		
				<1	1412 μS/cm	98.6		94.3	105		
EA/ED: Physical and Aggregate Properties (QC	Lot: 5130602)										
ED037: Total Alkalinity as CaCO3		1	mg/L	<1	50 mg/L	101		95.0	105		
ED/EK: Inorganic Nonmetallic Parameters (QC	Lot: 5130203)										
ED041K: Sulphate as SO4 - Turbidimetric		1	mg/L	<1	5 mg/L	100		89.8	108		
ED/EK: Inorganic Nonmetallic Parameters (QC	Lot: 5130205)										
ED045K: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	97.4		88.2	108		
ED/EK: Inorganic Nonmetallic Parameters (QC	Lot: 5130206)										
EK071K: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	97.3		92.4	106		
ED/EK: Inorganic Nonmetallic Parameters (QC	Lot: 5130211)										
EK055K: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	97.7		89.3	109		
ED/EK: Inorganic Nonmetallic Parameters (QC Lot: 5136653)											
EK086: Sulphite as SO3 2-	14265-45-3	2	mg/L	<2							

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Client : ACUMEN LABORATORY AND TESTING LIMITED

Work Order

HK2324385





∴ 8 of 9

Client : ACUMEN LABORATORY AND TESTING LIMITED

Work Order HK2324385



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

Matrix: WATER					Matrix Spi	ke (MS) and Matri	x Spike Duplic	ate (MSD) Re	eport	
				Spike	Spike Re	ecovery (%)	Recovery	Limits (%)	RPD	) (%)
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control Limit
ED/EK: Inorgani	c Nonmetallic Parameters (QC Lot: 5130	203)								
HK2324178-003	Anonymous	ED041K: Sulphate as SO4 - Turbidimetric		50 mg/L	93.8		75.0	125		
ED/EK: Inorgani	c Nonmetallic Parameters (QC Lot: 5130	205)								
HK2324385-001	WM1	ED045K: Chloride	16887-00- 6	5 mg/L	90.8		75.0	125		
ED/EK: Inorgani	c Nonmetallic Parameters (QC Lot: 5130)	206)								
HK2324385-001	WM1	EK071K: Reactive Phosphorus as P	14265-44- 2	0.5 mg/L	98.5		75.0	125		
ED/EK: Inorgani	c Nonmetallic Parameters (QC Lot: 5130	211)								
HK2324385-001	WM1	EK055K: Ammonia as N	7664-41-7	0.5 mg/L	100		75.0	125		
ED/EK: Inorgani	c Nonmetallic Parameters (QC Lot: 5151	752)								
HK2324385-001	WM1	EK061A: Total Kjeldahl Nitrogen as N		0.5 mg/L	108		75.0	125		
EP: Aggregate 0	Organics (QC Lot: 5139108)									
HK2324856-001	Anonymous	EP005: Total Organic Carbon		250 mg/L	81.4		75.0	125		
EP: Aggregate 0	Organics (QC Lot: 5151348)									
HK2321471-001	Anonymous	EP026C: Chemical Oxygen Demand		10 mg/L	102		75.0	125		
EG: Metals and	Major Cations - Total (QC Lot: 5130258)									
HK2324385-001	WM1	EG032: Calcium	7440-70-2	2000 μg/L	95.2		75.0	125		
		EG032: Iron	7439-89-6	2000 μg/L	110		75.0	125		
		EG032: Magnesium	7439-95-4	2000 μg/L	103		75.0	125		
		EG032: Potassium	7440-09-7	2000 μg/L	101		75.0	125		
		EG032: Sodium	7440-23-5	2000 μg/L	92.9		75.0	125		
EG: Metals and	Major Cations - Total (QC Lot: 5130259)						ı			
HK2324385-001	WM1	EG020: Cadmium	7440-43-9	5 μg/L	105		75.0	125		
		EG020: Copper	7440-50-8	50 μg/L	110		75.0	125		
		EG020: Lead	7439-92-1	50 μg/L	98.7		75.0	125		
		EG020: Manganese	7439-96-5	50 μg/L	106		75.0	125		
		EG020: Nickel	7440-02-0	50 μg/L	108		75.0	125		

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Client

Work Order

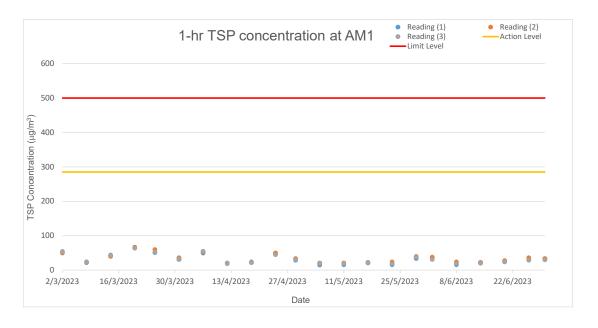
ACUMEN LABORATORY AND TESTING LIMITED HK2324385

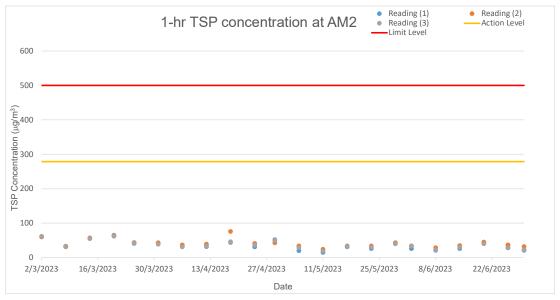
Matrix: WATER	Matrix: WATER			Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Report						
				Spike	Spike Re	ecovery (%)	Recovery I	Limits (%)	RPD	(%)
Laboratory	Sample ID	Method: Compound	CAS Number	Concentration	MS	MSD	Low	High	Value	Control
sample ID										Limit
EG: Metals and Major Cations - Total (QC Lot: 5130259) - Continued										
HK2324385-001	WM1	EG020: Zinc	7440-66-6	50 μg/L	96.7		75.0	125		

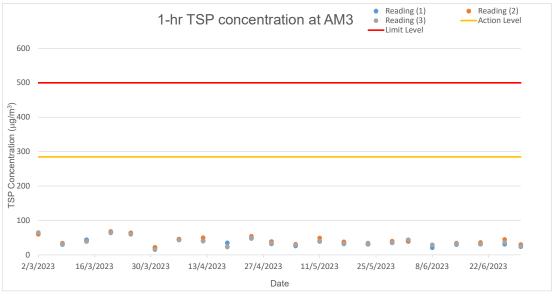


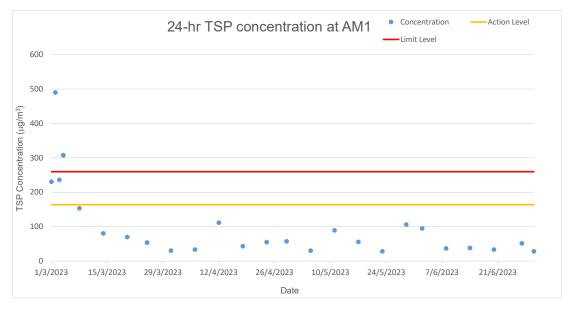
## Appendix F Graphical Presentations

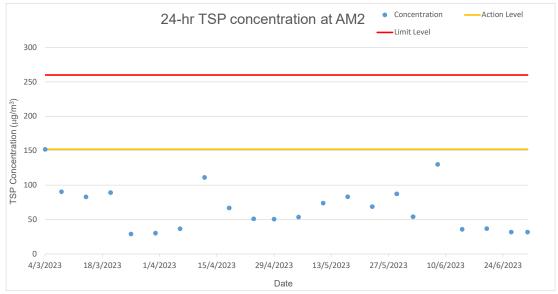
# Air Quality

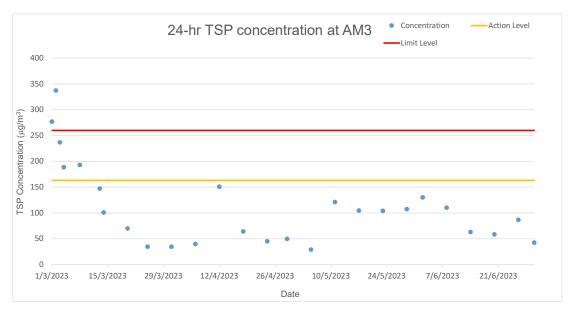




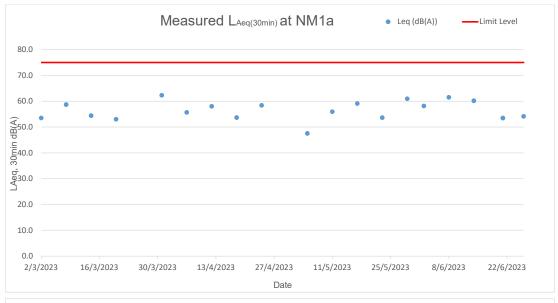


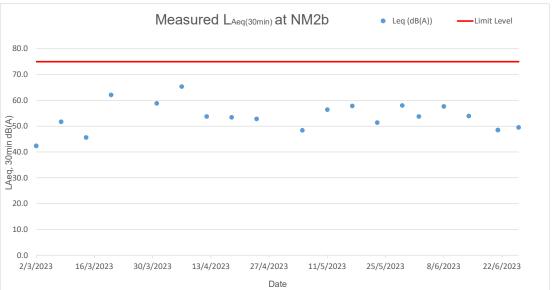




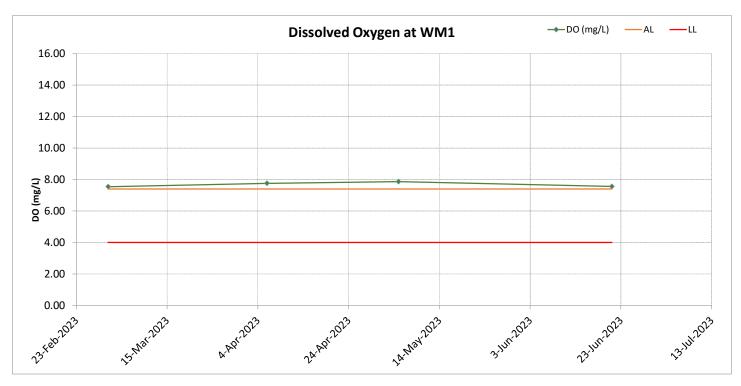


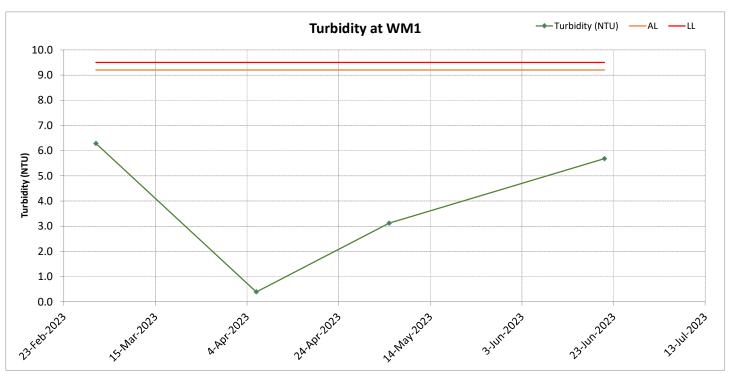
## **Noise**

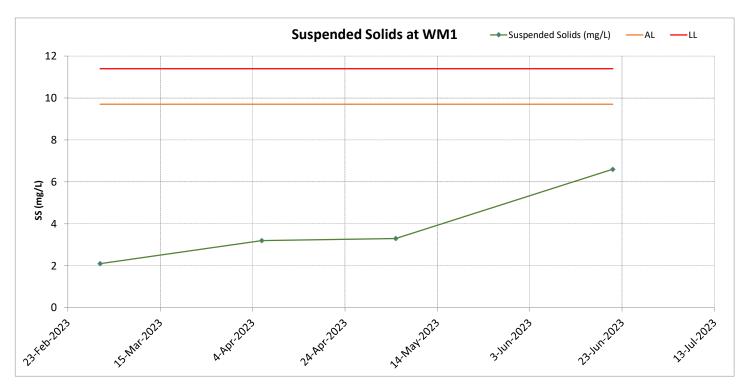


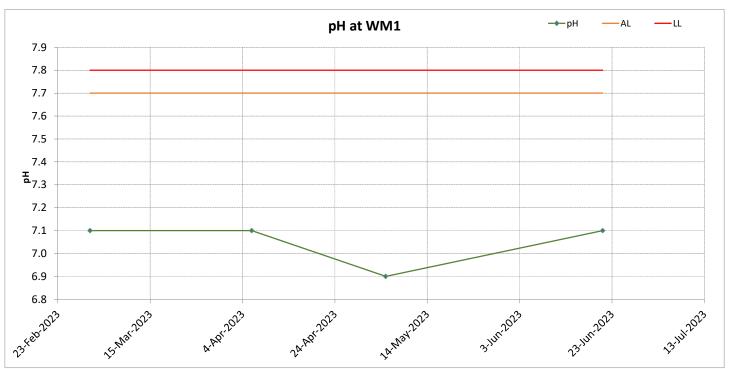


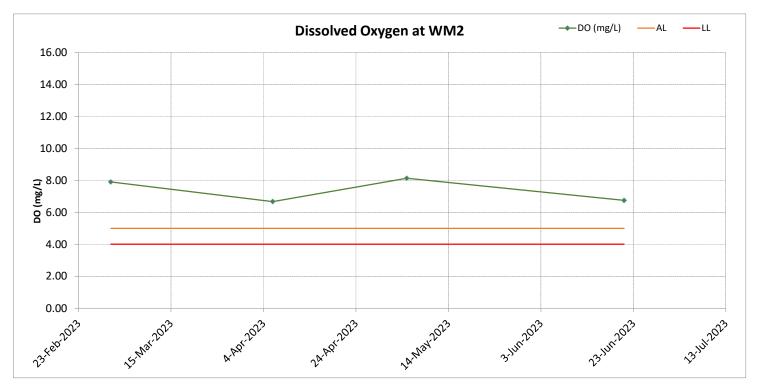
Water Quality

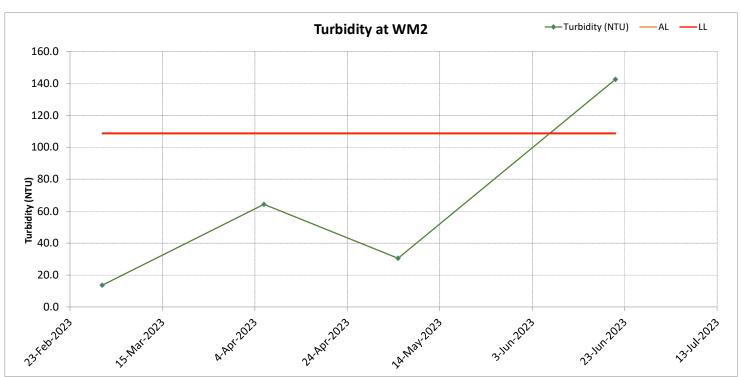


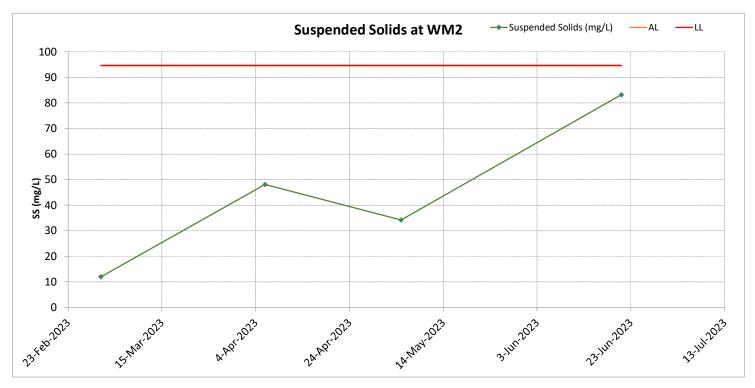


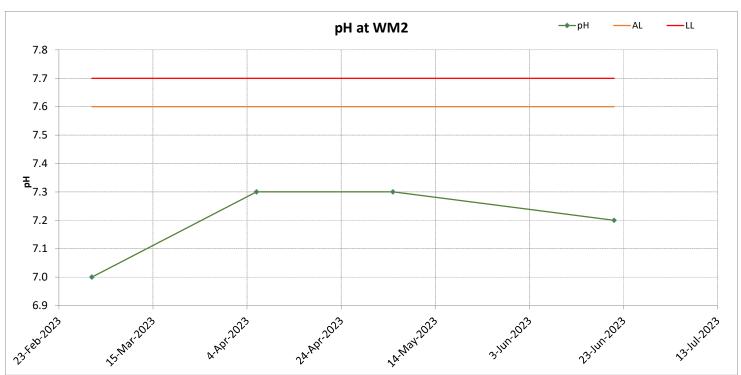












# Appendix G Notification of Environmental Quality Limits Exceedance

#### Notification of Environmental Quality Limits Exceedance

#### **Construction Dust**

				Exceedance Count					
Dust Monitoring	Parameter	1-hr TSP	24-hr TSP	Reportir	ng period	Accumulate project to date			
Station	Level Exceedance	1-111 137	24-111 13F	Project related	Non- project replated	Project related	Non- project replated		
AM1	Action	0	0	0	0	0	2		
	Limit	0	0	0	0	0	3		
AM2	Action	0	0	0	0	0	0		
	Limit	0	0	0	0	0	0		
AM3	Action	0	0	0	0	0	4		
	Limit	0	0	0	0	0	3		

#### **Noise Monitoring**

Manitarina Station	Monitoring	No. of Exceedance			
Monitoring Station	Parameter(s)	Action Level	Limit Level		
NM1a		0	0		
NM2a	LAeq (30mins)	0	0		

## Notification of Environmental Quality Limits Exceedance

## **Surface Water Monitoring**

Manitarina Station	Monitoring	No. of Ex	ceedance
Monitoring Station	Parameter(s)	Action Level	Limit Level
	Dissolved Oxygen	0	0
10/044	рН	0	0
WM1	Turbidity	0	0
	Suspended Solids	0	0
	Dissolved Oxygen	0	0
14/140	рН	0	0
WM2	Turbidity	0	1#
	Suspended Solids	0	0

Remarks: # equal to "Investigation In progress"

## 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 <sub>2</sub>	0		
	O <sub>2</sub>	0		

## Appendix H Wind Data

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230601_0000	2.5	SE
20230601_0010	2.5	ESE
20230601_0020	1.7	SE
20230601_0030	2.5	ESE
20230601 0040	2.2	ESE
20230601_0050	2.8	ESE
20230601 0100		
20230601 0110	3.1	Е
20230601_0120	2.5	ESE
20230601_0130	2.5	ESE
20230601 0140	2.5	SE
20230601_0150	2.5 2.5	ESE
20230601_0150	3.1	ESE
20230601 0200 20230601 0210 20230601 0220	2.8	ESE ESE
20230601_0210	3.1	ESE
20230601_0220	3.1	
	3.3	ESE
	2.5	ESE
20230601_0250		ESE
20230601 0300	3.1	ESE
20230601_0310	3.1	ESE
20230601_0320	2.8	ESE
20230601 0330	2.8	E
20230601_0340	2.8	E
20230601_0350	2.5 3.3	E
20230601 0400 20230601 0410	3.3	E
20230601_0410	2.5	ENE
20230601_0420	1.7	Е
20230601 0430	2.2	ENE
20230601_0440	2.2	E
20230601_0450	1.4	NNE
20230601 0500	1.1	N
20230601_0510	1.4	N
20230601_0520	1.7	N
20230601 0530	0.8	N
20230601 0540	2.2	NNE
20230601_0550	2.8	NNE
20230601 0600	3.6	NNE
20230601 0610	3,3	NNE
20230601 0620	3.6	NNE
20230601 0630	3,3	NNE
20230601 0640	3.1	NNE
20230601 0650	3.3	NNE
20230601 0700	3,3	NNE
20230601 0710	3.3	NNE
20230601 0720	2,5	NNE
20230601 0730	2.2	NNE
20230601 0740	1.7	N
20230601_0710	2.2	Ň
20230601_0750	2.8	NNE
20230601 0800	2.2	N
20230601_0810	2.2	N
20230601_0820	1.7	NNE
20230601_0840	2.2	NNE
20230601_0840	1.7	N N
20230601_0900	1.9	N N
20230601_0900	2.5	N N
20230601_0910	2.8	NNE
20230601_0930	2.5	N
20230601_0940	2.8	N
20230601_0950	3.1	NNE
20230601_0000	2.2	NNE
20230601_1000	1.7	NNE
20230601_1010	1.9	N
20230601_1030		NNE
20230601_1040	2.5 2.5	NNE
20230601_1050	3.1	NNE
20230601_1030	2.8	NNE NNE
20230601_1100	3,3	NNE
20230601 1110	3.3	NNE NNE
20230601_1120	3.3 4.4	NNE NNE
20230601_1130	3,3	NNE

Date & Time	Wind Speed (m/s)	Wind Direction (From)
(YYYYMMBB HHMM)		
20230601_1200	3.9	NNE
20230601_1210	3.9	NNE
20230601_1220	4.7	NNE
20230601_1230	5	NNE
20230601_1240 20230601_1250	4.4 4.7	N N
20230601_1230	4.7	N N
20230601_1300	4.7 4.7	NNE
20230601_1310	5.3	NNE
20230601_1320	4.2	N
20230601_1340	4.7	N
20230601_1340	4.2	NNE
20230601_1990	3.9	NNE
20230601 1400	5.5	NNE
20230601_110	5 4.7	NNE
20230601 1430	5.8	NNE
20230601 1440	5	NNE
20230601 1450	4.2	NNE
20230601_1500	4.7	NNE
20230601_1510	3,3	NNE
20230601_1520	4.7	N
20230601 1530	3,6	N
20230601_1540	3.9	N
20230601_1550	3,3	N
20230601 1600	3.3	N
20230601_1610	3.9	N
20230601_1620	3.3 3.3	N
20230601 1630	3.3	N
20230601_1640	4.7	NNE
20230601_1650	3.9	NNE
20230601 1700	5	NNE
20230601_1710	3.9	N
20230601_1720	3.1	N
20230601 1730	3.9	NNE
20230601_1740	3.6	N
20230601_1750	3.9	NNE
20230601 1800	3.9	NNE
20230601_1810 20230601_1820	4.4	NNE NNE
20230601_1820	3,3	NE NE
20230601_1840	3.9	NNE NNE
20230601_1850	3.6	NNE
20230601_1830	4.2	NNE
20230601 1910	3.3	NNE
20230601 1920	3.9	NNE
20230601_1920	3.3	NNE
20230601 1940	3,3	NNE
20230601 1950	3.3	NNE
20230601 2000	3,3	NNE
20230601 2010	3.9	N
20230601_2020	3.3	NNE
20230601_2030	2.8	N
20230601_2040	2.2	N
20230601_2050	2.8	N
20230601_2100	3.3	N
20230601_2110	4.2	N
20230601_2120	4.2 3.3	N
20230601_2130	3.3	N
20230601_2140	3.1	N
20230601_2150	3.1	N
20230601_2200	2.8	N
20230601 2210	3.9	N
20230601_2220	3.9	N N
20230601_2230	3.9	N
20230601 2240	3.3	N N
20230601_2250	3.9	N N
20230601_2300 20230601_2310	4.2 3.3	N N
20230601 2310 20230601_2320	3.3 4.7	N N
20230601_2320	3.1	N N
20230601_2330	4.2	N N
20230601_2340	3.6	NNE
20230001_2330	2.0	TATATA

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230602 0000	3,3	NNE
20230602 0010	3.1	NNE
20230602_0020	3.3	NNE
20230602_0030	3.1	NNE
20230602_0040	3.3	N
20230602_0050	3.3	N
20230602_0100	3.6	N
20230602_0110	3.9	N
20230602_0120	3.9	N
20230602_0130	4.2	N
20230602_0140	3.9	N
20230602_0150	3.1	N
20230602 0200 20230602 0210 20230602_0220	3.1	N N
20230602_0210 20230602_0220	3.3 3.1	N N
20230602_0220	3.9	N N
20230602_0240	3.3	N N
20230602_0240	3.9	N N
20230602_0230	3.1	N N
20230602_0310	3.1	NNE NNE
20230602_0310	2.8	NNE
20230602_0320	3.3	N
20230602_0340	3.6	N N
20230602 0350	3.9	N N
20230602_0330	3,3	N
20230602 0400 20230602 0410	3,3	N
20230602 0420	3.1	N
20230602 0430	3.3	N
20230602 0440	3.3	N
20230602_0450	3.3	N
20230602 0500	3.3	N
20230602_0510	3.3	NNE
20230602_0520	3.3	NNE
20230602 0530	3.3	NNE
20230602_0540	3.3	NNE
20230602_0550	4.2	NNE
20230602 0600	3.3	N
20230602_0610	3.6	N
20230602_0620	4.4	N
20230602 0630	5	NNE
20230602_0640	4.4	NNE N
20230602_0650 20230602_0700	4.2	N N
20230602 0700	3.9	N N
20230602_0710	4.4	NNE NNE
20230602_0720	5.8	NNE
20230602 0740	5.3	NNE
20230602_0740	4.4	NNE
20230602_0750	5.3	NNE
20230602 0810	4.7	NNE
20230602 0820	4.2	NNE
20230602 0830	4.2	NNE
20230602_0840	4.2	N
20230602 0850	4.2	N
20230602_0900	3.3	N
20230602 0910	3.9	N
20230602_0920	3.1	N
20230602_0930	3.9	N
20230602_0940	4.7	NNE
20230602_0950	4.2	NNE
20230602_1000	3.3	NNE
20230602 1010	3.9	N
20230602 1020	5	NNE
20230602_1030	3.6	N
20230602 1040	3.3	N
20230602_1050	3.1	N
20230602_1100	3.3	N
20230602 1110	4.2	N
20230602_1120	3.3	N N
20230602_1130	3.6	NNE
20230602 1140	3.3	NNE
20230602 1150	2.8	N

Date & Time		
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230602 1200	3.6	N
20230602_1210 20230602_1220	3.1	N
20230602_1220	3.1	N
20230602_1230	3.6	N
20230602_1250 20230602_1250	3.3	N
20230602_1250	3.9	N
20230602_1300	4.2	NNE N
20230602_1310 20230602_1320	3.6 3.9	NNE
20230602_1320	4.2	N
20230602_1330	4.4	N
20230602_1340 20230602_1350	3.9	N
20230602 1400	4.7	N NNE
20230602_1410 20230602_1420	5	NNE
20230602_1420	3.6	NNE
20230602_1420 20230602_1430 20230602_1440 20230602_1450	4.4	NNE
20230602_1440	4.4	NNE
20230602_1450	4.4 4.2	NNE NNE
20230602 1500 20230602 1510 20230602 1510 20230602 1520	4.2	NNE NNE
20230002_1310	4.4	NNE
20230602_1520	4.2	NNE
20230602 1540	4.4	NNE
20230602_1540	4.7	NNE
20230602 1600	3,3	NNE
20230602 1610	3.3	NNE
20230602_1620	3.6	NNE
20230602 1630	4.2	NNE
20230602_1640	3.6	NNE
20230602_1650	2.8	NNE
20230602 1700	2.8	NNE
20230602_1710	3.1	N
20230602_1720	3.3	NNE
20230602 1730 20230602 1740	3.5	NNE NNE
20230602_1740	4.2	NNE
20230602_1750	3.3	NNE
20230602_1810	4.2	NNE
20230602_1820	3.9	NNE
20230602 1830	3.9	NNE
20230602_1840	1.9	ENE
20230602_1850	0.8	-
20230602 1900	0.3	N
20230602_1910	2.5	NNE
20230602_1920	1.4	NE
20230602 1930	0.3	-
20230602_1940	0.6	- NATE
20230602_1950	0.8	NNE
20230602 2000 20230602 2010	1.4 0.8	NNE N
20230602_2010	0.8	N N
20230602_2020	0.3	
20230602_2030	0.8	SW
20230602 2050	0.6	WNW
20230602_2100	0.3	-
20230602 2110	0.3	W
20230602 2120	0.3	NNW
20230602_2130	1.4	N
20230602_2140	2.5	N
20230602_2150	2.2	N
20230602_2200	2.5	N
20230602 2210	3.1	N
20230602_2220 20230602_2230	1.9 1.4	N N
20230602_2230 20230602_2240	1.4	N N
20230602_2250	0.8	ENE
20230602_2230	0.8	NE NE
20230602_2300	0.8	E
20230602_2320	0.8	N N
20230602_2320	1.1	SSE
20230602 2340	0.8	SE
20230602_2350	0.3	SSE

Date & Time		
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230603_0000	0	N
20230603 0010		SSE
20230603_0020	0.8 0.3	N
20230603 0030	0.3	-
20230603_0040	0	N
20230603_0050	0.3	SSW
20230603 0100	0.3	SW
20230603 0110	0.3	SW
20230603_0110 20230603_0120	0.3 0.3 0.3	S
20230603_0120	0.3	SSE
20230603 0140		
20230603_0140 20230603_0150	0.8 0.3	SSE
20230003_0130	0.3	- POP
20230603 0200	0.3	ESE
20230603 0210 20230603 0220	0	N. N.
20230603_0220	0	N
20230603 0230 20230603 0240	0.3 0.3	
20230603_0240	0.3	SSE
20230603_0250	0.6	S
20230603 0300	0.8	SSE
20230603 0310	0	N
20230603 0320	0.3	
20230603 0330	0.3	SE
20230603 0340	0.3	<u>-</u> -
20230603_0350	0.3	-
20230603 0400	0.3	S
20230603 0410	0	N
20230603_0420	0	N
20230603 0430	0	N
20230603_0440	0	N
20230603_0450	0	N
20230603_0430	0.3	S
20230603_0510	0.3	SSE
20230603_0510	0.3	
20230603_0520	0.3	N S
20230603 0530	0.3	
20230603_0540	0.3	SSE
20230603_0550	0.3	
20230603 0600	0.3	NE
20230603_0610	0.3	-
20230603_0620	0	N
20230603 0630	0.3	S
20230603_0640	0.3	-
20230603_0650	0.3	S
20230603 0700	0.8	SSE
20230603_0710	0.3	SSE
20230603_0720	0.6	S
20230603 0730	0	N
20230603 0740	0	N
20230603_0750	0.3	S
20230603 0800	0.3	W
20230603_0810	0.3	S
20230603_0820	0.6	E E
20230603_0830	0.3	-
20230603_0840	2.2	N N
20230603_0850	1.7	NNW
20230603_0900	3.3	
20230003_0900	3.1	N
20230603_0910	3.1	N
20230603_0920		N
20230603_0930	2.8	N
20230603_0940	2.5	N
20230603_0950	2.5	N
20230603_1000	1.7	S
20230603 1010	3.1	ESE
20230603_1020	2.5	E
20230603_1030	2.8	E
20230603 1040	2.8	Е
20230603 1050	2.5	ESE
20230603_1100	3.1	ESE
20230603_1100	3.1	ESE
20230603 1110	3.1	ESE
20230603_1120	3.1	ESE
20230603_1130	2.5	ESE
20220003 1140	3.1	ESE ESE
20230603_1150	3.1	ESE

Date & Time	W-1 C1 (/-)	Wind Dimetion (Form)
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230603 1200	2.2	_
20230603 1210 20230603 1220	2.5	SE
20230603_1210	1.4	S
20230003_1220		<u> </u>
20230603_1230	1.7	S
20230603 1240 20230603 1250	2.8 2.2	-
20230603 1250	2.2	ENE
20230603 1300	1.4	ESE
20230003_1300		LOL
20230603 1310 20230603 1320	1.4	N
20230603_1320	1.7	ENE
20230603_1330	0.8	NNW
20230603 1340	1.4	_
20230603_1350	1.7	S
20230003_1330		
20230603 1400	1.1	SW
20230603_1410	0.8	SSW
20230603_1410	1.4	N
1 20220602 1420	2.2 1.7	NNW
20230603_1440	1.7	NNW
20230003_1440	1./	ININW
20230603_1440	1.7	NW
20230603 1500	1.9	NNW
20230603 1500 20230603 1510	2.2 1.7	NNW
20230603_1510	1.7	NW
20230603_1520	20	
20230003 1330	2.8	N
20230603_1540	1.7	N
20230603_1550	2.8	NNE
20230603 1600	1.7	N
20230603_1610	1.4	NNW
20230603_1620	1.4	NNW N
20230003_1020		
20230603 1630	1.7	NNE
20230603_1640	2.5	NE
20230603_1650	1.1	NNE
20230603 1700	1.4	E
20230003 1700	1.4	E
20230603_1710	2.5	ESE
20230603_1720	2.5	E
20230603 1730	2.5	E
20230603_1740	2.8	E
20230603_1750	2.8	E
20230003_1730	2.0	
20230603 1800	2.5	E
20230603_1810	3.1	ESE
20230603_1820	2.5	E
20230603 1830	3.1	Ē
20230003 1030	3.1	ESE
20230603_1840	2.8	
20230603_1850	2.5	E
20230603 1900	2.2	ESE
20230603_1910	2.8	ESE
20230603 1920	2.8	ESE
	2.8	ESE
20230603 1930		
20230603_1940	2.5	SE
20230603_1950	2.8	ESE
20230603 2000	2.2	ESE
20230603_2010	1.9	ESE
20220602 2020	1.9	
20230603_2020	1.4	SE
20230603_2030	2.2	SE
20230603 2040	2.2	SE
20230603 2050	1.7	SE
20230603_2100		GE OF
20230003_2100	1.4	SE
20230603_2110	1.4	SE
20230603_2120	1.7	SE
20230603_2130	1.4	ESE
20230603 2140	1.1	ESE
20230603_2150		LOL
20230003_2130	0.8	-
20230603_2200	1.4	ESE
20230603 2210	1.7	E
20230603_2220	2.2	ESE
20230603_2230	2.2	ESE
20220602_2230		EOE
20230603 2240	1.7	ESE
20230603_2250	1.7	ESE
20230603_2300	1.7	SE
20230603 2310	2.2	ESE
20230603_2320	2.2	ESE
20220602 2220		
20230603_2330	1.7	ESE
20230603 2340	2.5	ESE
20230603_2350	2.5	ESE

Date & Time	Wind Speed (m/s)	Wind Direction (From)
(YYYYMMBB HHMM) 20230604_0000	1.9	ESE
20230604 0010	1.7	SE SE
20230604_0020	1.7	ESE
20230604 0030	1.7	ESE
20230604 0040	1.7	ESE
20230604_0050	1.7	SE
20230604_0100	1.1	Е
20230604_0110	1.4	<u>E</u>
20230604_0120	1.4	E
20230604_0130 20230604_0140	1.4 1.4	E E
20230604_0140 20230604_0150	1.4	ESE
20230604_0130	1.4	SE
20230604 0210	0.8	SE
20230604_0220	0.8	SE
20230604 0230	1.1	ESE
20230604_0240	0.6	SE
20230604_0250	0	N
20230604 0300	0	N
20230604_0310	0	N
20230604_0320	0.3	SSW
20230604 0330	0.6	SSE
20230604_0340 20230604_0350	1.1 1.4	SE SE
20230604_0330	1.4	ESE ESE
20220604_0410	0.8	SE
20230604 0420	0.3	WNW
20230604 0430	0.3	WNW
20230604_0440	0.3	W
20230604 0450	0.3	W
20230604 0500	0	N
20230604_0510	0	N
20230604_0520	0	N
20230604 0530 20230604 0540	0	N
20230604_0540 20230604_0550	0 0.3	N N
20230604_0600	0.5	N N
20230604_0610	0	N N
20230604 0620	0	N
20230604 0630	0.3	SW
20230604_0640	0	N
20230604_0650	0	N
20230604 0700	0	N
20230604_0710	0	N
20230604_0720 20230604_0730	0	N N
20230604 0730 20230604 0740	0.3	NW NW
20230604_0750	0.3	NE
20230604_0750	0.3	NW NW
20230604 0810	0.3	NNE
20230604 0820	0.3	N
20230604_0830	0.8	WNW
20230604_0840	0.8	N
20230604_0850	1.4	NNE
20230604_0900	0.8	NNE
20230604_0910 20230604_0920	1.1 1.4	N NNW
20230604_0920	1.4	NW NW
20230604_0940	0.8	SSW
20230604 0950	1.4	-
20230604_1000	2.2	ESE
20230604 1010	2.2	N
20230604_1020	1.1	-
20230604_1030	2.8	ESE
20230604 1040	3.3	ESE ESE
20230604_1050	3.1	ESE
20230604_1100	3.1	ESE
20230604 1110 20230604 1120	3.3	ESE
20230604_1120	3.3	SE SE
20230604_1140	3.3	ESE

D-4- 0 Ti		
Date & Time	Wind Speed (m/s)	Wind Direction (From)
(YYYYMMBB HHMM)		EGE
20230604_1200	3.3	ESE
20230604_1210	3.3	E
20230604_1220	3.3	ESE
20230604_1230	3.3	ESE
20230604_1240	3.3	ESE
20230604 1250	3.3	ESE
20230604 1300	3.3	ESE
20230604 1310	3.1	ESE
20230604_1320	3.3	ESE
20230604_1330	2.8	Е
20230604_1340	3.1	ESE
20230604_1350	2.5	E
20230604 1400	2.8	E
20230604 1410	3.1	E
20230604_1420	3.3	ESE
	3.3	EGE
20230604 1430	2.8	ESE
20230604_1440	3.3	Е
20230604_1450	2.8	Е
20230604 1500	3.3	E
20230604 1510	3.3	E
20230604_1520	3.3	ESE
20230604 1530	3.3	E
20230604 1540	2.8	E E
	2.8	
20230604_1550	3.3	E
20230604 1600	2.8	E
20230604_1610	2.8	E
20230604_1620	3.1	E
20230604 1630	3.3	Е
20230604 1640	3.3	E
20230604_1650	2.8	E
	2.0	
20230604 1700	3.3	E
20230604_1710	3.3	E
20230604_1720	3.3	Е
20230604 1730	3.3	E
20230604_1740	3.3	Е
20230604_1750	3.1	Е
20230604 1800	1.4	ESE
20230604_1810		ESE
	2.2	ESE
20230604_1820	2.2	ESE
20230604 1830	2.8	ESE
20230604_1840	2.5	ESE
20230604_1850	2.2	ESE
20230604 1900	2.5	ESE
20230604_1910	2.2	ESE
20230604_1920	2.5	SE
20230004_1920	2.3	
20230604 1930	2.2	SE
20230604_1940	2.5	SE
20230604_1950	2.5	SE
20230604 2000	2.8	SE
20230604_2010	2.8	SE
20230604_2020	2.8	SE
20230604_2030	2.2	SE
	2.2	ECE
	2.2	ESE
20230604_2050	2.2 2.2	ESE
20230604_2100	2.2	ESE
20230604_2110	2.2	ESE
20230604_2120	2.2 2.2	SE
20230604_2120 20230604_2130	2,2	ESE
20230604_2140	2.2	ESE
20230604_2150	17	
20230004_2130	1.7	SE
20230604_2200	1.4	SE
20230604 2210	0.8	SE
20230604_2220	1.4	SE
20230604_2230	1.1	SE
20230604 2240	0.6	-
20230604 2250	0.3	SE
20230604_2250 20230604_2300	0.6	SSE
20220004_2200		00E
20230604 2310	0.8	SSE
20230604_2320	0.8	SSE
20230604_2320	0.8	SE
20230604 2150 20230604 2200 20230604 2210 20230604 2210 20230604 2230 20230604 2230 20230604 2250 20230604 2300 20230604 2310 20230604 2300 20230604 2300 20230604 2300 20230604 2300 20230604 2350	0.3	ESE
20230604 2350	0	N

Date & Time	W. 10 1/ /)	Wr. ID: .: ./E \
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230605_0000	0.6	S SSE
20230605_0010 20230605_0020	1.1 1.9	SSE
20230605_0020	2.2	SSE
20230605_0040	1.7	SSE
20230605 0050	1.9	SSE
20230605_0100	2.2	SSE
20230605_0110	0.8	S
20230605_0120	0.3	-
20230605_0130 20230605_0140	1.1 0.8	SSE SSE
20230605_0140	1.1	SSE
20230605_0150	0.8	SSE
20230605 0200	0.8	SSE
20230605_0220	0.8	SSE
20230605 0230	1.4	SE
20230605_0240	1.1	ESE
20230605_0250	0.8	SE
20230605 0300	1.1	E
20230605_0310 20230605_0320	0.3 0.8	SE SE
20230605 0330	1.1	SE SE
20230605_0340	0.3	ESE
20230605 0350	0.3	E
20230605 0400	0.8	E
20230605_0410	0.3	ESE
20230605_0420	0	N
20230605 0430	0.3	ESE
20230605_0440	1.4	SE
20230605_0450 20230605_0500	1.4	SE SE
20230605_0510	1.7 1.7	SE SE
20230605_0510	1.1	SSE
20230605 0530	0.8	SE
20230605_0540	1.4	SSE
20230605_0550	1.7	SE
20230605 0600	1.4	SE
20230605_0610	1.4	ESE
20230605_0620	1.1	E
20230605 0630 20230605 0640	1.7 1.7	ESE
20230605_0650	1.9	ESE ESE
20230605 0700	1.7	ESE
20230605 0710	1.7	E
20230605 0720	1.1	ENE
20230605 0730	1.4	Е
20230605_0740	1.1	ESE
20230605_0750	1.4	ESE
20230605 0800 20230605 0810	1.7 2.5	ESE ESE
20230605_0810	2.2	ESE E
20230605_0820	2.5	E
20230605_0840	2.8	ENE
20230605_0850	2.8	ENE
20230605_0900	3.1	Е
20230605_0910	2.5	E
20230605_0920	3.1	E
20230605_0930	3.1	E
20230605_0940 20230605_0950	3.1 3.3	ESE E
20230605_1000	3.3	E E
20230605 1010	3.3	ESE
20230605 1010	3.1	ESE
20230605_1030	2.8	ESE
20230605 1040	3.3	Е
20230605_1050	3.1	Е
	3.3	ENE
20230605_1100		
20230605 1110	3.3	E
20230605 1110 20230605_1120	3.3	Е
20230605 1110	3.3 3.3 3.3 2.8	

Data 9 Time		
Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
(YYYYMMBB HHMM) 20230605_1200	3.1	ENE
20230605 1210	2,5	E
20230605_1220	2.5	ENE
20230605_1230	3.1	E
20230605_1240	2.8	E
20230605_1250	2.8	E
20230605_1300	3.3	E
20230605_1310 20230605_1320	2.5	ESE E
20230605_1320	2.8	ESE
20230605_1340	2.5	E
20230605_1350	2.5	Ē
20230605 1400	2.8	E
20230605_1410	3.3	E
20230605_1420	2.8	E
20230605 1430	3.6	E
20230605_1440 20230605_1450	3.3 3.3	E E
20230605 1500	3.3	E E
20230605 1510	3,3	E E
20230605 1520	3,9	Ē
20230605 1530	3.9	E
20230605_1540	3.9	E
20230605_1550	3.9	Е
20230605 1600	3.6	E
20230605_1610	3.3	E
20230605_1620 20230605_1630	3.1	E ESE
20230605 1630 20230605 1640	2.5 2.2	E ESE
20230605_1650	2.2 2.8	E E
20230605_1656	3.3	E
20230605_1710	3.3	E
20230605_1720	3.3	E
20230605 1730	3.3	E
20230605_1740	3.1	ESE
20230605_1750	3.1	E
20230605 1800 20230605 1810	2.8 2.5	ESE ESE
20230605_1820	1.7	ESE
20230605_1820	1.9	E
20230605_1840	1.7	E
20230605_1850	1.7	E
20230605 1900	1.9	E
20230605_1910 20230605_1920	1.7	ENE
20230605_1920	1./	E
20230605 1930 20230605 1940	1.9 2.2	E
20230605_1940 20230605_1950	1.1	ESE ESE
20230605_1930	1.4	SE
20230605 2010	1.4	ESE
20230605 2020	1.4	322
20230605_2030	1.1	SE
20230605_2040	1.1	SE SE SE SE
20230605_2050	1.1	SE
20230605_2100	1.4	SE
20230605_2110	1.7 2.2	SE SE
20230605 2120 20230605 2130	2.2 1.7	SE SE
20230605_2130	1.7	SE SE
20230605 2150	1.1	ESE
20230605_2200	1.7	SE
20230605 2210	1.7	SE
20230605_2220	1.4	ESE
20230605_2230	1.4	ESE
20230605 2240	0.8	ENE
20230605_2250 20230605_2300	0.8 0.8	ESE SSE
20230605_2300	1.4	ESE ESE
20230605_2320	0.8	SE SE
20230605 2330	1.1	SE
20230605 2340	1.1	SE
20230605_2350	1.1	SSE

Date & Time	Wind Cond (m/s)	Wind Direction (France)
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230606_0000	1.4	SE
20230606_0010	1.1	SE
20230606_0020	1.1	E
20230606_0030	1.4	E
20230606_0040	1.4 1.4	<u>Е</u> Е
20230606_0050 20230606_0100		
20230606_0100 20230606_0110	1.4 1.4	<u>Е</u> Е
20230606_0110 20230606_0120	0.8	E E
20230606_0120	1.1	E
20230606_0140	1.1	E
20230606_0150	1.1	ESE
20230606_0200	1.1	ESE
20220606 0210	1.4	ESE SE SE
20230606_0220	1.1	SE
20230606 0230 20230606 0240	0.8	SE
20230606 0240	0.3	-
20230606 0250	0.3	-
20230606_0300	1.1	SE
20230606 0310	1.1	SE
20230606 0320	0.8	ESE
20230606 0330	0.3	ESE
20230606 0340	0.8	ESE
20230606_0350	0.8	Е
20230606 0400	0.8	Е
20230606_0410	0.8	ESE
20230606_0420	0.6	ESE
20230606 0430	0.8	ESE
20230606_0440	1.1	ESE
20230606_0450	1.1	E
20230606 0500	1.1	E
20230606_0510	0.8	ESE
20230606_0520	1.4	SE
20230606 0530	1.1 2.2	ESE SE
20230606_0540	1.7	
20230606_0550	2.7	SE SE
20230606 0600	1.7	SSE
20230606_0610 20230606_0620	1.7	SE SE
20230606_0630	1.7	SSE
20230606_0640	1.4	ESE
20230606_0650	2.2	ESE
20230606_0050	2.5	SE
20230606_0710	2.5	E
20230606_0720	2.5	ESE
20230606 0730	2.5	ESE
20230606_0740	2.8	ESE
20230606_0750	2.5	ESE
20230606 0800	2.5	Е
20230606 0810	2.2	ESE
20230606_0820	1.9	Е
20230606 0830	2.5	Е
20230606 0840	2.5	Е
20230606_0850	2.8	Е
20230606_0900	2.8	Е
20230606_0910	3.3	Е
20230606_0920	3.3	<u>E</u>
20230606_0930	2.5	E
20230606_0940	2.5	ESE
20230606_0950	2.8	ESE
20230606_1000	2.8	ESE
20230606 1010	2.8	ESE
20230606_1020	2.8	ESE
20230606_1030	2.2	ENE
20230606 1040	2.5 2.5	E
20230606_1050		SE
20230606_1100	2.8	ESE
20230606 1110 20230606 1120	1.9	ENE
20230606_1120 20230606_1130	2.2	E SE
	2.2	ENE ENE
20230606 1140 20230606_1150	2.8	ENE E
20230000_1130	2.3	E

Date & Time	W:-1 C1 (/-)	Wind Dimetion (Form)
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230606 1200	2.5	E
20230606_1210	2.5	ESE
20230606_1210 20230606_1220	2.5 2.2	E
20230000_1220	2.2	
20230606_1230	2.5	ESE
20230606_1240	2.5 2.2	ESE ESE
20230606_1250	2.2	ESE
20230606 1300	1.7	SE
20230606_1310	2.5	ESE
20230606_1310 20230606_1320	2.5 2.8	EOE
20230000_1320	2.8	E
20230606_1330	3.1	ESE
20230606_1340	2.8	E
20230606_1350	2.8 3.1	E E
20230606 1400	3.3	ESE
20220606 1410	3,3	ESE
20230606_1420	3,3	ESE E
20230000_1420		E
20230606 1430	3.3	E
20230606_1440	3.3	<u>Е</u> Е
20230606_1450	3.6	E
20220606 1500	3.9	
20230606 1510	3.3	E E
20230606_1510	3.9	E
20220606 1520		
20230606 1530	2.5 3.1	ESE
20230606_1540	3.1	ESE
20230606_1550	3.3	E
20230606 1600	3.1	E
20230606_1610	3.3	E
20230606_1620	3.3	ESE
20230606_1620	3.3	
20230000 1030		E
20230606_1640	3.3	Е
20230606_1650	3.3	E
20230606 1700	3.1	E
20230606_1710	3,3	E
20230606 1720	2.8	Ē
20230606 1730	2.8	ESE
20230000 1730	2.8	
20230606_1740	2.8	ESE
20230606_1750	3.3	ESE
20230606 1800	3.3	ESE
20230606_1810	3.1	E
20230606_1820	3,3	ESE
20230606 1830	3.1	ESE
20230000 1830	2.5	ESE ESE
20230606_1840		
20230606_1850	3.1	ESE
20230606 1900	2.8	ESE
20230606 1910	2.8	SE
20230606 1920	2.8	ESE
20230606 1930	2.8	SE
20230606 1940	3,3	SE
20230606_1950	3.1	SE
20230606 2000	2.5	ESE
20230606_2010	2.5	ESE
20230606 2020	2.2	ESE
20230606_2030	2.2	ESE
20230606 2040	1.9	ESE
20230606_2040	2.5	SE
		SE CE
20230606_2100	2.8	SE
20230606_2110	2.2	SE
20230606_2120	2.5	SE
20230606_2130	2.5	SE
20230606 2140	3.1	SE
20230606 2140	2.5	SE
20230606_2200	2.5	SE
20230606 2210	2.2	SE
20230606_2220	2.2	SE
20230606_2230	2.5	SE
20230606 2240	2.8	SE
20230606_2250	3.1	SE
20230606_2300	2.5	SE
20220606 2210		
20230606 2310	2.5	SE
20230606_2320	2.5	SE
20230606_2330	3.3	ESE
20230606 2340	2.5	ESE
20230606_2350	2.5	ESE
20220000_2220	4.5	LUL

Date & Time	W. 10 1/ ()	W. ID. C. (E.)
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230607_0000	2.5	ESE
20230607_0010 20230607_0020	2.2 1.7	SE SE
20230607_0020	2.5	ESE
20230607_0040	2.2	ESE
20230607_0050	2.2	ESE
20230607 0100	2.2	ESE
20230607 0110	1.7	ESE
20230607_0120	1.7	SE
20230607_0130	1.7	SE
20230607_0140 20230607_0150	1.7	SE SSE
20230607_0130	1.7	SSE
20230607 0200	1.1	SE
20230607 0220	0.8	S
20230607 0230	1.1	ESE
20230607_0240	0.8	Е
20230607_0250	0.8	E
20230607 0300	1.4	E
20230607_0310 20230607_0320	1.4	ENE E
20230607_0320 20230607_0330	1.4 1.1	ESE
20230607 0330	1.4	ESE
20230607_0350	1.7	SE
20230607 0400	1.1	SE
20230607_0410	1.4	ESE
20230607_0420	0.8	ESE
20230607 0430	0.8	E
20230607_0440 20230607_0450	1.1	ESE
20230607_0450 20230607_0500	0.3 0.6	E SE
20230607_0510	0.8	ESE
20230607_0520	1.1	ESE
20230607 0530	1.7	E
20230607_0540	0.8	SSE
20230607_0550	0.6	SSE
20230607 0600	1.1	NE
20230607_0610	1.1	ENE
20230607_0620 20230607_0630	0.3 1.1	ENE
20230607 0630 20230607 0640	0.3	SE SE
20230607_0650	0.8	SE
20230607_0000	0.8	ESE
20230607 0710	1.4	ESE
20230607_0720	1.4	ESE
20230607 0730	1.1	SE
20230607_0740	0.8	SE
20230607_0750	1.1	SE
20230607 0800 20230607_0810	1.1	SE SE
20230607_0810	0.8	NE NE
20230607_0830	1.1	E
20230607 0840	1.7	E
20230607_0850	2.2	ESE
20230607_0900	2.5	E
20230607_0910	3.1	E
20230607_0920 20230607_0930	2.5 2.5	E ESE
20230607_0930	2.5	ESE E
20230607_0940	2.2	<u> </u>
20230607_0730	1.7	ESE
20230607 1010	2.2	ESE
20230607_1020	2.2 2.2	ESE
20230607_1030		Е
20230607 1040	2.5	ESE
20230607_1050	2.5	E
20230607_1100	2.8	E
20230607 1110 20230607_1120	2.8 3.3	<u>Е</u> Е
20230607_1120	2.5	<u>е</u> Е
20230607_1130	2.8	SE

Date & Time		
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230607_1200	2.8	E
20230607_1210	2.8	E
20230607_1220 20230607_1230	3.1 2.8	ESE E
20230607_1240	2.8	ESE
20230607_1250	2.5	E
20230607 1300	2.8	ENE
20230607_1310	2.5	Е
20230607_1320	2.2	E
20230607_1330	2.5	E
20230607_1340 20230607_1350	2.5 2.5	E 
20230607_1330	2.8	E E
20230607 1400	2.8	ESE
20230607 1420	3.1	ESE
20230607 1430	2.8	ESE
20230607_1440	2.8	E
20230607_1450	2.2	ESE
20230607 1500	1.7	ESE
20230607_1510 20230607_1520	1.7 1.1	ESE ESE
20230607_1520	0.6	SSW
20230607 1530	1.1	SE SE
20230607_1550	1.7	ESE
20230607 1600	1.7	ESE
20230607_1610	1.7	ESE
20230607_1620	1.7	E
20230607 1630 20230607 1640	1.7	ESE
20230607_1640 20230607_1650	2.5 3.3	ESE E
20230607_1000	3,3	E
20230607_1710	3.3	ESE
20230607_1720	2.8	ESE
20230607 1730	2.8	ESE
20230607_1740	3.3	ESE
20230607_1750 20230607_1800		ESE
20230607 1810	2.2 2.5	ESE ESE
20230607_1820	1.4	ENE
20230607 1830	1.1	NNE
20230607_1840	0.8	-
20230607_1850	0.3	SSE
20230607 1900	1.7	SE
20230607_1910 20230607_1920	0.8 0.8	N SE
20230607_1920	1.7	ESE
20230607 1930	1.4	ESE
20230607 1950	1.7	ESE
20230607 2000	2.2	ESE
20230607_2010	1.9	E
20230607_2020	1.1	E
20230607_2030 20230607_2040	1.4	ENE E
20230607_2040	1.4	ESE
20230607_2030	1.1	SE
20230607 2110	0.3	SW
20230607 2120	0.3	S
20230607_2130	0.3	SE
20230607 2140	0.3	E
20230607_2150	0.8	E
20230607_2200 20230607_2210	0.6 1.1	<u>Е</u> Е
20230607_2220	1.4	ENE
20230607_2220	1.1	ESE
20230607 2240	1.4	SE
20230607_2250	0.6	-
20230607_2300	0.3	SSW
		N
20230607 2310	0	
20230607 2310 20230607_2320	0	N
20230607 2310		

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230608_0000	0.3	S
20230608_0010	1.1	SSE
20230608_0020	0.8	SSW
20230608_0030	0.6	SSW
20230608_0040	1.1	S
20230608_0050	1.4	SSE
20230608_0100	1.4	SSE
20230608_0110	1.4	SSE
20230608_0120	1.7	SE
20230608_0130	0.8	SE
20230608_0140	1.1	SE
20230608_0150	0.6	SE
20230608 0200 20230608 0210 20230608 0220	0.8	SSE
20230608_0210	1.7	SSE
20230608_0220	1.4	SE
20230608 0230	1.1	ESE
20230608_0240	1.7	ESE
20230608_0250	1.7	ESE
20230608 0300	1.7	ESE
20230608_0310	1.1	ESE
20230608_0320	1.7	ESE
20230608 0330	1.1	ESE
20230608_0340	0.8	ESE
20230608_0350	0.8	SE
20230608 0400 20230608 0410	0.6	ESE
20230608_0410	1.4 1.7	ESE
20230608_0420		ESE
20230608 0430	1.7	E
20230608_0440	1.4	E
20230608_0450	1.7	ENE
20230608 0500	1.7	E
20230608_0510	0.8	SE
20230608_0520	1.1	SSE
20230608 0530	0.6	S
20230608_0540	0.8	S
20230608_0550	1.1	SSE
20230608 0600	0.3	- N
20230608_0610 20230608_0620	0	N N
20230608_0630	0.3	SE
20230608 0640	0.3	SE SSE
20230608_0650	0.3	N N
20230608_0030	0.6	
20230608 0700	1.1	S S
20230608 0720	0.8	S
20230608_0720	0.8	SSE
20230608_0740 20230608_0750	0.3	E
	0.3	SSW
20230608 0800	0.3	
20230608_0810 20230608_0820	0.3	SSW N
20230608_0830	0.3	NW NW
20230608_0840	0.3	NW NW
20230608_0850	0.8	WNW
20230608_0900	0.3	NW
20230608 0910	0.3	N N
20230608_0910	0.3	SE
20230608_0930	1.1	E E
20230608_0940	1.7	E
20230608_0950	1.7	E
20230608_0930	1.4	E
20230608_1000	1.4	E
20230608_1020	1.4	ENE
20230608_1030	1.7	ESE
20230608_1040	2.7	ESE E
20230608_1050	2.8 2.8	ESE
20230608_1000	2.8	ESE E
20230608_1100	2.0	E
20230608 1110	2.5 3.1	E E
20230608_1120	1.9	E E
20230608_1140	2.5	E
20230006 1140	2.3	E E

Date & Time	Wind Speed (m/s)	Wind Direction (From)
(YYYYMMBB HHMM)	2.2	E E
20230608_1200 20230608_1210	2.2	E E
20230608_1210	3,3	E
20230608_1220	3.1	E
20230608 1240	2,5	E
20230608_1250	2.2	E
20230608_1300	1.4	ESE
20230608_1310	0.8	E
20230608_1320	1.1	Е
20230608_1330	1.4	E
20230608_1340 20230608_1350	0.8 0.6	ENE
20230608_1300	0.8	SE ENE
20230608 1410	0.6	ESE
20230608_1110	0.3	ENE
20230608 1430	0.8	ENE
20230608 1440	0.8	NE
20230608_1450	1.4	ENE
20230608 1500	1.7	ENE
20230608_1510	2.2	ENE
20230608_1520	1.7	NNE
20230608 1530	1.7	ENE
20230608_1540	1.9 1.9	NE ENE
20230608_1550 20230608_1600	1.9	ENE ENE
20230608 1610	1.7	ENE ENE
20230608_1610	1.7	E
20230608_1620	1.7	E
20230608 1640	1.4	E
20230608_1650	0.8	ESE
20230608 1700	1.4	Е
20230608_1710	1.7	Е
20230608_1720	1.7	Е
20230608 1730	2.2	E
20230608_1740	2.2	ESE
20230608_1750 20230608_1800	1.7	ESE ENE
20230608 1800 20230608 1810	0.8 1.7	ENE ENE
20230608_1810	1.4	ENE
20230608_1830	1.4	ENE
20230608_1840	1.4	ENE
20230608_1850	1.4	ENE
20230608 1900	1.4	ENE
20230608_1910 20230608_1920	1.1	ENE
20230608_1920	1.1	ENE
20230608 1930 20230608 1940	0.8	ENE ENE
20230608_1940 20230608_1950	1.4 1.4	ENE ENE
20230608_1930	1.7	NE NE
20230608_2010	1.7	ENE
20230608 2020	1.1	E
20230608_2030	0.8	E
20230608 2040	1.1	NE
20230608_2050	1.1	NE
20230608_2100	1.4	ENE
20230608_2110	1.1	ENE
20230608_2120 20230608_2130	0.8 1.1	ENE NE
20230608_2140	1.1	NE NE
20230608 2110 20230608 2120 20230608 2130 20230608 2140 20230608 2150	1.1	E NE
20230608_2100	1.4	ENE
20230608_2200	1.1	NE NE
20230608 2220	0.8	Е
20230608_2230	0.8	ESE
20230608 2240	1.4	ESE
20230608_2250	1.4	E
20230608_2300	1.4	E
20230608 2310	0.3	NE NNE
20230608_2320 20230608_2330	0.3	NNE N
20230608_2330	0.3	N N

Date & Time	Wind Speed (m/s)	Wind Direction (From)
(YYYYMMBB HHMM)		ENE
20230609_0000 20230609_0010	0.8 1.4	ENE E
20230609_0020	1.1	NE NE
20230609 0030	1.1	NE
20230609 0030	0.8	E
20230609_0040	0.8	SE
20230609_0050	0.3	N
20230609_0100	1.1	Е
20230609_0110	1.4	ESE
20230609_0120	1.1	ENE
20230609_0130	1.1	E
20230609_0140 20230609_0150	0.8	ESE N
20230609 0130	0.8	ENE
20230609_0210	1.1	NE NE
20230609 0220	1.4	E
20230609_0230	1.1	ENE
20230609 0240	1.7	ENE
20230609 0250	1.7	ENE
20230609_0300	1.1	ENE
20230609_0310	1.4	E
20230609 0320	1.4	ENE
20230609_0330	1.4	ENE
20230609_0340	1.1	ENE
20230609 0350 20230609_0400	0.8 0.8	NE ENE
20230609_0400	0.8	ENE
20230609 0420	0.3	ENE
20230609_0430	0.8	ESE
20230609 0440	0	N
20230609 0450	0.3	ENE
20230609 0500	1.1	Е
20230609_0510	1.1	Е
20230609 0520	0	N
20230609_0530	0.3	ENE
20230609_0540 20230609_0550	0	N N
20230609 0550	0.3	SE
20230609 0600 20230609_0610	0.8 1.1	ESE ENE
20230609_0620	0.3	NE NE
20230609_0630	0.6	NNE
20230609_0640	0.3	NE
20230609 0650	0.8	NE
20230609 0700	0.8	ENE
20230609_0710	0	N
20230609 0720	0	N
20230609_0730	0.6	NNE
20230609_0740	0.8	NNE
20230609 0750 20230609 0800	0.3	- E
20230609_0800 20230609_0810	1.1 0.8	SE
20230609_0820	1.1	E E
20230609_0820	1.9	E
20230609_0840	1.7	E
20230609_0850	1.7	E
20230609_0900	1.9	Е
20230609_0910	2.2	Е
20230609_0920	1.9	Е
20230609_0930	1.7	ESE
20230609_0940	1.9	ESE
20230609_0950	1.9	ESE
20230609 1000 20230609_1010	2.2 2.5	<u>Е</u> Е
20230609_1010	1.9	E E
20230609 1030	2.5	E
20230609_1040	2.5 2.5	E E
20230609_1050	2.5	ESE
20230609 1100	2.8	E
20230609_1110	2.8	Е
20230609_1120	3.3	Е
20230609 1130	2.8	ENE
20230609 1140	3.3	ESE

Date & Time		
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230609_1200	3.3	ESE
20230609_1210	3.1	E
20230609_1220	3.3	ESE
20230609_1230 20230609_1240	2.5	E E
20230609_1240	3,3	E
20230609 1300	3.3	ENE
20230609_1310	3.6	E
20230609 1320	3.3	E
20230609_1330	3.3	ENE
20230609_1340	3.3	E
20230609_1350	3.3	E
20230609 1400 20230609 1410	3.3 4.2	ENE
20230609_1410	3,3	<u>Е</u> Е
20230609 1430	3.3	E
20230609 1440	3.3	E
20230609_1450	3.1	E
20230609 1500	3.9	E
20230609_1510	3.6	E
20230609_1520	3.3	E
20230609 1530	4.2	E
20230609_1540 20230609_1550	3.3 3.3	<u>Е</u> Е
20230609_1550	3.3	E E
20230609 1610	3.3	E
20230609 1620	3.9	Ē
20230609 1630	3.6	ESE
20230609_1640	3.3	ESE
20230609_1650	3.9	ESE
20230609 1700	3.6	ESE
20230609_1710	4.2	ESE
20230609_1720 20230609_1730	3.3	ESE E
20230609 1730	3.1 2.5	ESE ESE
20230609 1750	2.8	ESE
20230609 1800	2.5	ESE
20230609_1810	1.9	ESE
20230609_1820	2.5	E
20230609 1830	2.5	ESE
20230609_1840	2.8	ESE
20230609_1850	2.2	SE
20230609 1900 20230609 1910	1.7	SE
20230609_1910 20230609_1920	2.5 2.2	SE SE
20230609_1920	2.8	ESE
20230609 1940	2.8 2.8	ESE
20230609 1950	3.1	ESE
20230609 2000	3.6	ESE
20230609_2010	3.3	ESE
20230609_2020	2.8 2.8	ESE
20230609_2030 20230609_2040	2.8 3.1	ESE ESE
20230600 2050	2.8	ESE SE
20230609_2030	3.3	SE SE
20230609 2110	3.3	SE
20230609 2120		SE
20230609_2130	2.5 2.2	SE
20230609 2140	2.5	ESE
20230609_2150	3.3	SE
20230609_2200	2.2	SE
20230609 2210	2.5	ESE
20230609_2220 20230609_2230	3.6 2.5	ESE ESE
20230609_2230	2.3	ESE
20230609 2250	3.6	ESE
20230609_2300	3.3	ESE
20230609 2310	3.3	ESE
20230609 2320	3.9	SE
20230609_2330	3.3	ESE
20230609 2340	3.1	ESE
20230609_2350	2.5	E

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230610_0000	1.7	ESE
20230610_0010	2.5	ESE
20230610_0020	3.3	ESE
20230610_0030	2.5	ESE
20230610_0030	2.8	ESE
20230610_0040	3.1	ESE
20230610_0050	1.7	ESE
20230610_0100	2.2	ESE
20230610_0110	2.8	ESE
20230610_0120	2.5	ESE
20230610_0130 20230610_0140	2.5 2.5	ESE ESE
20230010_0140		
20230610 0150 20230610 0200 20230610 0210	2.5 2.5	<u>Е</u> Е
20230610_0200	2.2	ESE
20230610 0220	1.7	E
20230610_0230	1.7	ESE
20230610_0230	1.9	E
20230610 0250	1.7	ESE
20230610 0250	1.7	E
20230610_0300	1.4	Ë
20230610_0300	1.7	E
20230610_0330	2.2	E
20230610 0340	2.5	E
20230610_0350	2.5 2.2 2.2	E
20230610 0350 20230610 0400	2.2	Ë
20230610 0410	1.7	E
20230610 0420	2.5	E
20230610 0430	2.5	Ē
20230610_0440	1.7	ESE
20230610 0450	1.7	E
20230610 0500	1.7	E
20230610_0510	1.7	Ē
20230610 0520	1.7	E
20230610_0530	1.7	Ē
20230610_0540	1.7	ESE
20230610 0550	1.4	ESE
20230610 0600	1.9	SE
20230610 0610	1.7	ESE
20230610 0620	2.2	ESE
20230610 0630	2.8	ESE
20230610 0640	2.5	ESE
20230610 0650	2.2	Е
20230610_0700	1.9	Е
20230610_0710	2.2	ESE
20230610 0720	2.2	ESE
20230610_0730	2.5	ESE
20230610_0740	2.8	Е
20230610 0750	2.5	Е
20230610_0800	2.2	ESE
20230610_0810	2.2	<u>E</u>
20230610_0820	2.2	E
20230610_0830	2.5	ESE
20230610_0840	2.5	E
20230610_0850	2.5	E
20230610_0900	3.1	E
20230610_0910	3.3	E
20230610_0920	2.8	E
20230610_0930	2.8	E
20230610_0940	3.1	E
20230610_0950	3.3	E
20230610 1000	3.1 3.3	<u>Е</u> Е
20230610_1010 20230610_1020	2.8	
	2.8	E
20230610 1030	3.3	ESE
20230610_1040	3.3	ESE
20230610_1050	3.6	ESE
20230610 1100	3.9 3.9	E
20230610_1110	3.9	E
20230610_1120 20230610_1130	3.6 4.2	E E

Date & Time	TT 10 1/ /	
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230610_1200	3.3	E
20230610_1210 20230610 1220	4.2 3.9	<u>Е</u> Е
20230610_1220	3.6	E
20230610 1240	3.9	ESE
20230610_1250	4.4	E
20230610_1300	3.9	E
20230610_1310	3.9	E
20230610_1320 20230610_1330	4.2 4.4	E E
20230610_1340	3.9	E E
20230610_1350	4.2	E
20230610 1400	4.2	E
20230610_1410	3.9	E
20230610_1420	4.4	E
20230610 1430 20230610 1440	4.2 4.2	<u>Е</u> Е
20230610_1450	4.2	E
20230610 1500	3.6	E
20230610_1510	3.9	Е
20230610_1520	3.9	E
20230610 1530	3.9 3.3	E E
20230610_1540 20230610_1550	3.9	<u>Е</u> Е
20230610_1550	3.6	E
20230610_1610	3.6	E
20230610_1620	3.9	E
20230610 1630	3.9	<u>E</u>
20230610_1640 20230610_1650	3.6 3.3	E ENE
20230610_1030	3.3	ENE E
20230610 1710	2.8	Ē
20230610_1720	2.5	ESE
20230610 1730	2.8	Е
20230610_1740	2.8	E
20230610_1750 20230610_1800	2.2 2.8	E ESE
20230610_1810	2.5	ESE
20230610_1820	1.7	ESE
20230610 1830	1.4	ESE
20230610_1840	1.7	ESE
20230610_1850	1.7	SE
20230610 1900 20230610_1910	1.7 2.2	SE ESE
20230610_1910	2.2	ESE
20230610 1930	2.2	E
20230610_1940	2.5	E
20230610_1950	2.2	ESE
20230610 2000	2.2 2.2	E
20230610_2010 20230610_2020	2.2	ESE ESE
20230610_2020	2.2	ESE
20230610_2040	2.5	ESE
20230610_2050	2.2 2.2	ESE
20230610_2100	2.2	ESE
20230610_2110	1.7	ESE
20230610_2120 20230610_2130	1.7 1.7	ESE ESE
20230610_2140	1.7	ESE
20230610_2150	1.7	ESE
20230610_2200	1.7	ESE
1 20230610 2210	1.7	ESE
20230610_2220 20230610_2230	1.7	ESE ESE
20230610_2220 20230610_2230 20230610_2240	1.7 1.7	ESE
20230610 2240	1.7	ESE.
20230610_2300	1.7	ESE ESE
20230610 2310	1.7	ESE
20230610_2320	1.4	ESE ESE
20230610_2330	1.4	ESE
20230610 2340 20230610_2350	1.7 1.7	ESE
	1./	ESE

Date & Time	Wind Speed (m/s)	Wind Direction (From)
(YYYYMMBB HHMM)		
20230611_0000	2.2	SE
20230611_0010	1.7	ESE
20230611_0020	1.7	ESE
20230611_0030	1.7	ESE
20230611_0030	1.1	ESE ESE
20230611_0040	1.1	
20230611_0050 20230611_0100	1.1	E E
20230611_0100	1.7	ESE
20230611_0110	1.9	ESE
20230611_0120	1.4	ESE
20230611_0130	0.8	ESE E
20230611_0140	1.1	E
20230611 0130	1.4	ESE
20230611 0210	1.4	SE
20230611 0220	1.1	-
20230611_0230	1.4	ESE
20230611_0240	0.6	-
20230611 0250	0.8	ENE
20230611_0300	0.3	ENE
20230611 0310	0.3	ENE
20230611_0320	0.3	-
20230611 0330	0.8	ENE
20230611_0340	2.2	ENE
20230611 0350	2.2	ENE
20220611 0400	1.9	Е
20230611 0410	2.2 2.8	ENE
20230611 0420	2.8	E
20230611_0430	3.1	Е
20230611_0440	3.1	E
20230611 0450	3.3	E
20230611_0500	3.6	E
20230611_0510	3.3	E
20230611 0520	2.8	E
20230611_0530	3.1 3.3	E
20230611_0540 20230611_0550	3.3	E
20230611 0550	3.3	ENE
20230611_0600 20230611_0610	2.5	ENE E
20230611_0610	2.3	E E
20230611_0630	3.1	E E
20230611_0640	2.5	E
20230611_0040	2.5	ESE
20230611_0700	3.1	SE
20230611_0710	2.8	E
20230611 0720	3.1	ESE
20230611 0720	2.5	E
20230611 0740	2.8	ESE
20230611 0750	2.8	ESE
20230611_0800	2.5	ESE
20230611_0810	2.5	ESE
20230611_0820	2.8	Е
20230611_0830	3.1	E
20230611_0840	2.8	Е
20230611_0850	2.5	ESE
20230611_0900	3.1	Е
20230611_0910	2.5	<u>E</u>
20230611_0920	2.5	E
20230611 0930	2.8	E
20230611_0940	2.8	ESE
20230611_0950	3.1	E
20230611 1000	3.3	E
20230611_1010	3.1	E
20230611_1020	2.5 2.5 2.5 2.2	E
20230611 1030	2.5	E
20230611_1040 20230611_1050	2.2	ESE E
	1.7	E E
20230611 1100 20230611 1110	1.7	ESE
20230611_1110	2.2	ESE
20230611_1120	2.8	ESE
	2.2	ESE
20230611 1140		

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Date & Time	Wind Speed (m/s)	Wind Direction (From)
(YYYYMMBB HHMM)		POP
20230611_1200	1.7	ESE
20230611_1210	2.2	E
20230611_1220	1.7	ESE
20230611_1230	1.7	ESE
20230611 1240	1.7	ESE
20230611 1250	1.9	SE
20230611_1300	1.1	S
20230611_1310	1.7	SE
20230011_1310	1./	
20230611_1320	0.8	ESE
20230611_1330	0.8	SE
20230611_1340	0.8	S
20230611_1350	0.3	N
20230611 1400	0.3	N
20230611 1410	0.3	NNE
20230611_1420	0.8	W
20230611_120	0.8	SW
20230611 1440	0.8	SE
20230611_1450	0	N
20230611 1500	0.3	NW
20230611_1510	0.8	ESE
20230611_1520	0.3	WNW
20230611 1530	0.3	NNE
20230611 1540	0.5	N
20230611_1550	0.3	SW
20230611 1600	0.6	NW
20230611_1610	0.8	W
20230611_1620	1.1	S
20230611 1630	0.8	E
20230611 1640	1.1	ESE
20230611_1650	1.1	SW
20230611_1000	0.3	SW
20230011 1700		
20230611_1710	0.3	WNW
20230611_1720	0.3	Е
20230611 1730	0.8	SE
20230611_1740	1.4	SE
20230611_1750	1.1	SSE
20230611 1800	1.4	S
20230611_1810	1.4	S
20230611_1820	1.1	S
		3
20230611 1830	1.4	S
20230611_1840	0.8	SW
20230611_1850	0.8	E
20230611 1900	0.3	E
20230611_1910	0.3	WNW
20230611_1920	0.8	SSW
20230611 1930	0.8	SSE
20230611_1940	0.6	SE
20230611_1950	0	N
20230611 2000	0.3	S
20230611_2010	0.8	SSE
20230611_2020	1.4	SSE
20230611_2030	0.8	-
20230611_2040	0.3	SE
20230611_2050	0.3	-
20230611_2000	0.8	SSE
20220011_2100		
20230611_2110	0.3	WNW
20230611_2120 20230611_2130	0.3	-
20230611_2130	0	N
20230611 2140	0	N
20230611_2150	0.3	ENE
20230611_2200	0.6	-
20230611 2210	0.0	N
20220011 2210		
20230611_2220		SSW
20230611_2230	0.3	-
20230611 2240	0	N
20230611_2250	0	N
20230611_2300	0.3	-
20230611 2310	0.8	ESE
20230611_2320	0.3	
		-
20220611 2220		N
20230611_2330	0	N
20230611 2150 20230611 2200 20230611 2210 20230611 2210 20230611 2220 20230611 2230 20230611 2250 20230611 2300 20230611 2310 20230611 2300 20230611 2320 20230611 2320 20230611 2320 20230611 2320 20230611 2320 20230611 2350		N N N

Date & Time	TT 10 1/ /	TT 101 1 00 1
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230612_0000	0	N
20230612_0010	0	N N
20230612_0020 20230612_0030	0	N N
20230612_0030	0	N N
20230612_0040	0	N
20230612_0050	0.3	-
20230612 0100	0.8	ESE
20230612_0110	0.3	S
20230612_0120	1.1	SE
20230612_0130	1.7	ESE
20230612_0140 20230612_0150	1.4 2.5	ESE NNE
20230612 0130	1.1	ENE
20230612 0210	1.9	NNE
20230612 0220	1.7	SSE
20230612_0230	1.4	Е
20230612_0240	1.7	ENE
20230612 0250	0.8	NNE
20230612_0300	2.5	NNE
20230612_0310 20230612_0320	2.8 1.4	NE SSW
20230612 0320	1.4	WSW
20230612_0340	0.3	ESE
20230612 0350	1.1	NE
20230612_0400	0.3	ENE
20230612_0410	1.4	WSW
20230612 0400 20230612 0410 20230612 0420 20230612 0420 20230612 0430	1.1	NNE
20230612_0430	1.1	ESE
20230012 0440	0.6	ESE
20230612 0450 20230612_0500	0.3 0.8	SE
20230612_0500	1.4	E E
20230612_0510		E
20230612_0530	1.7 0.3	NE NE
20230612 0540 20230612 0550	0.8	ENE
20230612 0550	0.6	
20230612_0600	0.3	Е
20230612_0610	1.1	NNE
20230612 0620	1.7	SE
20230612_0630 20230612_0640	2.8 1.1	SSE SSE
20230612_0040	1.7	S
20230612 0000	1.1	S
20230612_0710	1.4	SE
20230612 0720	0.8	SSE
20230612_0730	0.8	-
20230612_0740	0.3	-
20230612 0750	0	N
20230612_0800	0.3	SSE
20230612_0810 20230612_0820	1.1 0.8	SSE SE
20230612_0820	1.1	SSE
20230612_0840	0.8	WNW
20230612_0850	0.3	E
20230612_0900	1.1	ENE
20230612_0910	1.1	NNW
20230612_0920	1.4	NNE
20230612 0930	1.4	NNE
20230612_0940 20230612_0950	1.4	ENE
20230612_0950 20230612_1000	1.1 0.8	SE ESE
20230612_1010	0.8	N ESE
20230612_1010	0	N N
20230612_1020	0	N
20230612_1040	0.3	ESE
20230612_1050	0.3	Е
20230612 1100	1.1	ESE
20230612_1110 20230612_1120	1.1	ESE
	0.3	SSE
20230612_1120	0,6	SE

Date & Time		
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230612 1200 20230612_1210	1.1	ESE
20230612_1210	1.4	SE
20230612_1220	1.4	SE
20230612_1230	0	N
20230612_1240 20230612_1250	0.3	WNW N
20230612_1230	0.8	SSE
20230612_1310	1.1	S
20230612_1320	1.1	SE
20230612 1330	0.3	SSE
20230612_1340	0	N
20230612_1350	0.8	E
20230612 1400	1.4	ESE
20230612_1410 20230612_1420	1.4 0.8	ESE ESE
20230612_1420	0.6	ESE
20230612 1440	0.8	ESE
20230612_1440	0.0	N N
20230612 1500	0	N
20230612 1510	1.1	WSW
20230612_1520	1.1	WSW
20230612 1530	1.7	WSW
20230612_1540	1.7	SW
20230612_1550	2.8	SW
20230612 1600 20230612 1610	2.2 1.4	SW SW
20230612_1610	1.4	SW
20230612_1620	0.8	W
20230612_1640	1.7	WSW
20230612_1650	2.2	SW
20230612 1700	1.7	WSW
20230612_1710	0.8	W
20230612_1720	0.6	W
20230612 1730	0.8	WSW
20230612_1740 20230612_1750	0.3	SSW N
20230612_1730	0	N N
20230612_1810	0	N N
20230612_1820	0.6	NW
20230612 1830	1.1	WNW
20230612_1840	0.6	W
20230612_1850	0	N
20230612 1900	0.8	NNE
20230612_1910 20230612_1920	0.8	E
20230612_1920 20230612_1930	0.8	NE NE
20230612 1930 20230612 1940	0.6 0.3	SSE
L 20230612 1950	0.8	N N
20230612_1990	0.8	S
20230612 2000 20230612 2010 20230612 2020	0.3	-
20230612_2020	0.3	N
20230612 2030	0.3	NW
20230612_2040	0	N
20230612_2050	1.1	SE
20230612_2100 20230612_2110	1.4 0.8	SSE SW
20230012_2110	1.4	SSE
20230612 2120 20230612 2130	0.8	S
20230612 2140	0.8	ESE
20230612 2150	0.3	E
20230612_2200	0.3	SE
20230612 2210	0	N
20230612_2220	0	N
20230612_2230	0	N
20230612 2240	0	N
20230612_2250	0.3	E
20230612_2300 20230612_2310	0	N N
20230612_2310	0	N N
20230612_2320	0	N N
20230612_2330	0	N N
20230612_2350	0.3	ENE

Date & Time		
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230613 0000	0	N
20230613 0010	0	N
20230613_0010 20230613_0020	0	N
20230613 0030	0	N
20230613 0040 20230613_0050	0	N
20230613_0050	0	N
20230613_0100	0.3	-
20230613_0110	0	N
20230613_0120	0	N
20230613_0130	0	N
20230613 0130 20230613 0140 20230613 0150	0	N
20230613_0150	0	N
20230613 0200 20230613 0210 20230613 0220	0	N
20230613_0210	0	N N
20230013_0220	0	N N
20230613 0230 20230613 0240 20230613 0250	0	N N
20230013_0240	0	N N
20230013_0230	0	N N
20230613 0300 20230613 0310 20230613 0320	0.3	SSW
20230613_0310	0.5	N
20230613_0320	0.3	-
20230613 0330 20230613 0340	0.5	N
20230613_0350	0	N
20230613_0400	2.2	S
20230613 0400 20230613 0410	1.1	-
20230613_0420	0.6	SSE
20230613 0430	0.3	NW
20230613_0440	0.6	NE
20230613_0450	0.3	ENE
20230613 0500	0.3	W
20230613_0510	0	N
20230613_0520	0	N
20230613 0530	0.3	NE
20230613_0540	0.3	SW
20230613_0550	0.3	-
20230613 0600	0	N
20230613_0610	0	N
20230613_0620	0	N
20230613 0630	0	N
20230613_0640	0	N N
20230613_0650	0	N
20230613 0700 20230613 0710	0	N N
20230613_0720	0	N N
20230613_0720	0	N N
20230613_0740	0	N N
20230613_0750	0	N N
20230613_0730	0	N N
20230613_0810	0.3	NE NE
20230613_0820	0.5	N N
20230613_0830	0.3	SSW
20230613_0840	0.6	SSW
20230613_0850	0.6	SSE
20230613_0900	0	N
20230613 0910	0	N
20230613_0920	0	N
20230613_0930	0	N
20230613_0940	0	N
20230613_0950	0.3	WSW
20230613_1000	0.3	SW
20230613 1010	0.3	-
20230613_1020	0.3	-
20230613_1030	0	N
20230613 1040	0	N
20230613_1050	0	N
20230613_1100	0.6	WSW
20230613 1110	1.4	WSW
20230613_1120	0.8 0.3	WSW
20230613_1130		W
20230613 1140 20230613 1150	0.6	W W
20230013_1130	1.1	W

Date & Time		
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230613_1200	1.1	W
20230613_1210	1.7	WNW
20230613_1220	1.7	W
20230613 1230	1.7	W
20230613_1240	1.4	W
20230613_1250	1.7	WSW
20230613_1300	1.7	W
20230613_1310	1.7	WNW
20230613_1320	1.1	NW
20230613_1330	1.1	WNW
20230613_1340	1.4	NW
20230613_1350	0.6	NNW
20230613 1400	0.8	NNW
20230613_1410 20230613_1420	0.6	NNW WSW
20230613_1420	0.6	W
20230613 1440	1.1 1.7	W
20230613_1450	1.7	WSW
20230613_1490	1.7	W
20230613_1510	0.8	W
20230613_1520	1.1	WSW
20230613_1520	1.1	W
20230613_1540	0.3	WNW
20230613_1550	0.3	NW
20230613 1600	0.6	ENE
20230613 1610	0.6	ESE
20230613_1620	0.8	SE
20230613 1630	0.3	SSE
20230613_1640	0.8	SSE
20230613_1650	0.3	S
20230613 1700	0.3	SSE
20230613_1710	0	N
20230613_1720	0.3	NW
20230613 1730	0.3	NW
20230613_1740	0	N
20230613_1750	0	N
20230613 1800	0.8	SSW
20230613_1810 20230613_1820	1.1 0.6	SSE SE
20230613_1830	0.3	NNW
20230613_1840	1.1	N
20230613_1850	2.5	NNE
20230613 1900	2.2	NW
20230613_1910	1.4	N
20230613_1920	0.6	SW
20230613 1930	0.3	SSE
20230613_1940	0.3	-
20230613_1950	0	N
20230613 2000	1.1	SE
20230613_2010	1.7	SE
20230613_2020	1.4	ESE
20230613_2030	1.4	ESE
20230613_2040	1.9	ESE
20230613_2050	1.7	ESE
20230613_2100	1.4	NE NNE
20230613_2110	1.4	NNE -
20230613_2120 20230613_2130	0.8	ESE
20230613_2130	1.9	ESE
20230613_2140	1.7 1.7	ESE E
20230613_2130	1.1	ESE
20230613 2210	0.8	ESE
20230613 2220	1.7	SE
20230613 2230	1.7	ESE
20230613 2240	0.8	NW
20230613 2250	1.1	NW
20230613 2300	0.8	NNE
20230613 2310	0.3	NE
20230613_2320	0	N
20230613 2140 20230613 2150 20230613 2200 20230613 2210 20230613 2220 20230613 2220 20230613 2220 20230613 2230 20230613 2250 20230613 2300 20230613 2320 20230613 2330 20230613 2330 20230613 2330 20230613 2340 20230613 2340	0.3	NE
20230613 2340	1.1	NNE
20230613_2350	0.3	NNE

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230614 0000	1.1	NE
20230614_0010	0.6	NE
20230614_0020	0.6	Е
20230614_0020	0.6	ENE
20230614_0030	1.4	E
20230614_0040	1.4	ENE
20230614_0050 20230614_0100	2.2 2.2	ENE ENE
20230614_0100	0.8	E
20230614_0120	0.3	-
20230614 0130	0.6	N
20230614_0140 20230614_0150 20230614_0200	1.1	NNE
20230614 0150	1.7	NNE
20230614_0200	1.4	N
20230614_0210	1.4	NNE
20230614 0220	1.4	N N
20230614_0230 20230614_0240	1.1 1.1	N N
20230614_0240	0.8	NNW
20230614 0230	0.8	N N
20230614 0310	0	N
20230614 0320	0	N
20230614_0330	0.3	W
20230614_0340	0.8	WNW
20230614_0340 20230614_0350 20230614_0400	0.8	NNW
20230614_0400 20230614_0410	1.1	N
20230614_0410	1.4 0.3	NNE
20230614_0430	0.3	- N
20230614_0440	0	N N
20230614 0450	0.3	NW
20230614 0500	0.3	NNW
20230614_0510	0.6	N
20230614 0520	1.7	NNE
20230614_0530	1.1	NNE
20230614_0540	0.6	N
20230614 0550 20230614 0600	0.6 0.6	NNW NNW
20230614_0600	1.7	NNW N
20230614_0620	0.8	NNW
20230614 0630	0.6	NW
20230614 0640	0.3	NNW
20230614 0650	0.3	-
20230614_0700	0.3	NNE
20230614_0710	0.3	Е
20230614 0720	1.1	E
20230614_0730 20230614_0740	0.8	SSW WSW
20230614_0740 20230614_0750	0.6 0.3	NNW
20230614 0730	0.3	NN W NW
20230614_0810	0.3	NNW
20230614_0820	1.7	N
20230614_0830	1.4	N
20230614 0840	1.7	NNE
20230614_0850	1.4	N
20230614_0900	0.8	N N
20230614_0910	1.1	N N
20230614_0920 20230614_0930	0.3 0.8	NW NW
20230614_0930 20230614_0940	0.8	NNW
20230614_0950	0.6	WNW
20230614 1000	0.3	NW
20230614_1010	0	N
20230614_1020	0	N
20230614 1030	0.8	Е
20230614_1040	0.8	E
20230614_1050	2.5	E
20230614 1100	2.2	E
20230614_1110 20230614_1120	1.9	<u>Е</u> Е
20230614_1120 20230614_1130	2.2 2.2	<u>Е</u> Е
20230614 1130	1.7	E E
20230011_1110	1.1	- L

Data 6 Time		
Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230614 1200	1.4	ENE
20230614_1210 20230614_1220	1.7	E
20230614_1220	1.7 1.7	ESE
20230614 1230	1.9	E
20230614_1240	1.7 1.7	ESE
20230614_1250	1.7	ESE
20230614_1300	2.2	E
20230614 1310 20230614_1320	2.8 3.3	E
20230614_1320	3.3	E
20230614_1330 20230614_1340	3.3 3.6	E E
20230614_1340	2.8	ESE ESE
20230614_1300	3.1	ESE
20230614 1410	3.1	E ESE
20230614 1410 20230614 1420	2.5	SE
20230614 1430	2.2	E
20230614 1440	1.4	ESE
20230614_1450	1.7	E
20230614 1500 20230614 1510	1.7	ESE
20230614_1510	1.7	ESE ESE
20230614_1520	1.7	ESE
20230614 1530 20230614 1540	1.7	ESE
20230614_1540	1.7 2.2	SE SE
20230614_1550 20230614_1600	2.2	SE SE
20230614_1610	2.5	SE ESE
20230614_1610	2.0	ESE
20230614_1630	3.3	ESE
20230614 1640	3.3	ESE
20230614_1650	2.8	ESE
20230614 1700	3,3	Е
20230614_1710	2.8	ESE
20230614_1720	3.1	ESE
20230614 1730	2.8	ESE
20230614_1740	2.5	E
20230614_1750	2.2	ESE
20230614 1800	2.8	ESE
20230614_1810 20230614_1820	3.1 2.2	E ESE
20230614_1820	2.2	ESE ESE
20230614 1840	2.5	ESE E
20230614_1850	2.5	E E
20230614 1900	1.4	ESE
20230614 1910	1.7	ESE
20230614 1920	1.4	ESE
20230614 1930	2.5	ESE
20230614_1940	2.5	ESE
20230614_1950	2.5	ESE
20230614 2000	2.2	ESE
20230614_2010	2.5	E
20230614_2020	2.5	E
20230614_2030 20230614_2040	2.8 2.5	ESE E
20230614_2040	2.5	ESE
20230614_2030	3.3	ESE
20230614_2100	2.8	ESE
20230614_2120	2.8	ESE
20230614_2130	2.2	ESE
20230614 2140	2.2	ESE
20230614 2150	2.5	ESE
20230614_2200	2.2	ESE
20230614 2210	2.5	ESE
20230614_2220	3.1	ESE
20230614_2230	2.8	ESE
20230614 2240	2.5	SE
20230614_2250 20230614_2300	2.8 2.8	ESE ESE
20230614_2300	2.8	ESE ESE
20230614_2310	2.2	ESE SE
20230614_2320	2.8	ESE
20230614_2340	2.8	ESE
20230614_2350	2.8	ESE

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230615_0000	2.8	ESE
20230615_0010	2.8	SE
20230615_0020	2.8	ESE
20230615_0020	2.8	SE
20230615_0030	2.8	SE
20230615_0040	3.3	SE
20230615_0050 20230615_0100	3.6 2.5	SE SE
20230615_0110	2.2	SE SE
20230615_0110	3.1	SE SE
20230615_0120	2.5	SE
20230615_0140	2.2	SE
20230615 0150	2,5	ESE
20230615_0200	2.8	Е
20230615_0200 20230615_0210	2.8 2.5 2.8 3.3	E
20230615 0220	2.8	SE
20230615_0230		SE
20230615_0240	3.3	ESE
20230615 0250	4.4	ESE
20230615_0300	3.3	SE
20230615_0310	2.5 3.3	ESE
20230615 0320 20230615 0330	3.3 4.2	ESE SE
20230615_0340	2.8	SE SE
20230615_0340	2.8	ESE
20230615 0350 20230615_0400	2.8 2.5	ESE
20230615_0410	3.3	ESE
20230615 0420	3.9	ESE
20230615_0430	4.7	ESE SE
20230615_0440	3.3	SE
20230615_0440 20230615_0450 20230615_0500	2.2	SE
20230615_0500	2.5	SE
20230615_0510	3.1	SE
20230615 0520	4.2	SE
20230615_0530 20230615_0540	3.9 3.9	SE ESE
20230615_0540	4.2	ESE
20230615_0600	4.2	SE
20230615_0610	3,9	SE
20230615 0620	4.7	SE
20230615_0630	3.6	ESE
20230615_0640	3.3	ESE
20230615 0650	2.8	ESE
20230615_0700	3.1	ESE
20230615_0710	3.3	ESE
20230615 0720	3.9	ESE
20230615_0730 20230615_0740	3.3 3.3	E E
20230615_0740 20230615_0750	3.3	E E
20230615 0750	2.5	E
20230615_0800	3.1	E E
20230615_0820	2.8	E
20230615_0830	2.8	ENE
20230615_0840	2.5	Е
20230615_0850	1.4	ESE
20230615_0900	1.7	Е
20230615_0910	1.1	E
20230615_0920	2.8	E
20230615_0930	1.7	ESE
20230615_0940 20230615_0950	1.4 0.3	ESE
20230615_0950 20230615_1000	0.3	S
20230615_1010	0.8	SSE
20230615_1010	0.8	E
20230615_1020	0.8	SE
20230615 1040	0.8	ESE
20230615_1050	1.4	E
20230615 1100	1.7	ESE
20230615_1110	1.4	ESE
20230615_1120	1.4	E
20230615 1130	2.2	E
20230615_1140	3.3	E

Date & Time	Wind Cnood (m/s)	Wind Direction (From)
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230615_1200 20230615_1210	2.8	E E
20230615_1210	2.8 3.1	E E
20230615_1230	3.3	E
20230615 1240	2.5	ESE
20230615_1250	2.2	Е
20230615_1300	1.7	NNE
20230615_1310	2.2	NE .
20230615_1320	1.7	E
20230615_1330 20230615_1340	3.3 2.8	E ESE
20230615_1350	2.2	ESE
20230615_1500	2.5	ESE
20230615 1410	3.1	E
20230615_1420	3.3	ESE
20230615 1430	3.9	ESE
20230615_1440	3.9	ESE
20230615_1450	3.6	ESE
20230615 1500 20230615 1510	2.5 2.5	ESE ESE
20230615_1510	1.9	ESE
20230615_1520	2.2	E
20230615_1540	2.5	ESE
20230615_1550	1.7	ESE
20230615 1600	1.1	ESE
20230615_1610	1.7	ESE
20230615_1620	1.7	ESE
20230615 1630 20230615_1640	1.7 1.4	ESE ESE
20230615_1650	1.7	E E
20230615_1000	2.2	ENE
20230615 1710	2.2	E
20230615_1720	2.5	Е
20230615 1730	2.2	Е
20230615_1740	2.5	E
20230615_1750	2.8	E
20230615 1800 20230615_1810	2.8 2.2	E E
20230615_1820	2.2	E E
20230615_1830	1.7	E
20230615_1840	1.1	Ē
20230615_1850	1.4	Е
20230615 1900	1.7	E
20230615_1910	1.4	E
20230615_1920 20230615_1930	1.1	ENE ENE
20230615_1940	1.1 1.7	ENE ENE
20230615_1950	1.7	E
20230615 2000	1.7	E
20230615_2010	1.7	Е
20230615_2020	1.4	Е
20230615_2030	1.4	E
20230615_2040	0.8	NE ENE
20230615_2050 20230615_2100	1.1 0.8	ENE NNW
20230615_2110	1.1	NNE
20230615_2120	0.8	N
20230615_2130	0.8	-
1 20230615 2140	2.2	N
20230615_2150	1.7	NNE
20230615_2150 20230615_2200 20230615_2210	1.7	NNE
20230615 2210	1.4	NE
20230615_2220 20230615_2230	0.3 0.3	-
20230615_2230	0.8	- N
20230615_2250	1.7	NNE
20230615 2220 20230615 2220 20230615 2240 20230615 2240 20230615 2250 20230615 2310 20230615 2310 20230615 2330 20230615 2330 20230615 2350	1.9	N
20230615 2310	2.5	NNE
20230615_2320 20230615_2330	3.6	N
20230615_2330	3.3	NNE
20230615 2340	2.8	N NNIE
20230615_2350	3.3	NNE

Date & Time	Wind Speed (m/s)	Wind Direction (From)
(YYYYMMBB HHMM)		
20230616_0000 20230616_0010	3.3 3.9	NNE NNE
20230616_0020	3.3	N N
20230616_0020	3.3	N N
20230616_0030	3.9	N N
20230616_0040	4.2	N N
20230616_0050	3.3	N
20230616_0100	3.3	NNE
20230616 0110	2.8	NNE
20230616_0120	2.2	NNE
20230616_0130	1.9	N
20230616_0140	2.5	N
20230616 0150	2.2	N
20230616_0200	2.2	NNE
20230616_0210	1.7	N
20230616 0220	1.9	N
20230616_0230	2.2	N
20230616_0240	2.8	N
20230616 0250	2.5	N
20230616_0300	2.8	N
20230616_0310	4.2	N N
20230616 0320	4.2	N N
20230616_0330	3.3	N
20230616_0340	2.8	N
20230616 0350 20230616_0400	3.6 3.6	N N
20230616_0400	3.9	N N
20230616_0410	4.4	NNE
20230616_0430	3,3	NNE
20230616_0440	1.7	N
20230616 0450	1.4	NNW
20230616 0500	11	N
20230616_0510	1.1	N
20230616 0520	1.7	N
20230616 0530		N
20230616_0540 20230616_0550	2,5	N
20230616 0550	3.1	N
20230616 0600	3.3	N
20230616_0610	3.9	NNE
20230616 0620	3.3	N
20230616_0630	3.6	NNE
20230616_0640	3.9	N
20230616 0650	3.6	N
20230616_0700	2.5	N
20230616_0710	2.8	N
20230616 0720	3.1	N
20230616_0730	3.9	NNE
20230616_0740	3.9	NNE
20230616 0750	2.5	NNE
20230616_0800 20230616_0810	1.7 0.3	NE NE
20230616_0820	0.3	NE N
20230616_0820	1.7	NNE NNE
20230616_0840	2.2	NNE
20230616_0850	1.7	NNE
20230616_0800	1.4	NNE
20230616_0910	1.4	NNE
20230616_0920	1.7	NNE
20230616_0930	2.2	N
20230616_0940	1.1	N
20230616_0950	1.7	N
20230616 1000	1.4	NNE
20230616_1010	1.1	NNE
20230616_1020	0	N
20230616 1030	0.3	SSE
20230616_1040	0	N
20230616_1050	0	N
20230616 1100	0.3	E
20230616_1110	0.3	SE
20230616_1120	0	N
20230616 1130	0.8	N
20230616 1140	1.7	N

Date & Time		
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230616_1200	2,5	N
20230616_1210	2.2	N
20230616 1220	2.2	N
20230616_1230	2.2	N
20230616 1240	1.4	N
20230616 1250	1.7	N
20230616_1300	2.5	N
20230616 1310	2.5	N
20230616_1320	1.7	N
20230616_1320	2.2	N
20230616_1340	2.8	NNE
20230616_1350	2.8	N
20230616_1330	3.1	N
20230616 1410	3.3	N
20230616_1420	3.1	N
20230616_1420	2.8	NNE
20230616_1440	3.6	NNE
20230616_1450	3.9	NNE
20230616_1490	3.3	NNE
20230616 1510	3.9	NNE
20230616_1510	3.3	NNE
20230616_1520	2.5	NNE
20230616 1540	1.7	NE NE
20230616_1540	1.7	NNE NNE
20230616_1530	1.4	NE NE
20230616 1610	1.4	SE
20230616_1620	0.8	3E -
20230616_1630	0.6	NE
20230616_1640	0.8	INE -
20230616_1650	0.8	E
20230616_1000	0.3	
20230616 1710	0.3	- NE
20230616_1710	1.1	NE N
20230616_1720	2.8	NNE
20230616_1740	3.3	NNE
20230616_1750	2.8	NNE
20230616 1800	1.9	NNE
20230616_1810	1.7	NNE
20230616_1820	2.5	NE NE
20230616 1830	2.5 2.2	
20230616_1840		NE NE
20230616_1850 20230616_1900	0.8 0.3	NE E
20230616_1910	0.3	WNW
20230616_1910	0.3	-
20230616_1920	2.2	NNE
	2.2	
20230616_1940 20230616_1950	3.1 2.8	NNE NNE
	3.3	NNE NNE
20230616 2000		NNE NE
20230616_2010	1.7 2.2	NE NE
20230616_2020 20230616_2030	2.2	NE NE
20230616_2030	3.1	NE NE
20230616_2040	3.1	NNE NNE
20230616_2030	3.3	NE NE
20230616_2110	2.2	NE NE
20230616_2110	2.2	NNE NNE
20230616_2120 20230616_2130	2.8 2.2	NNE
20230616_2140	1.4	ENE
20230616_2140	0.3	ESE
20230616_2130	0.6	S
20230616_2150 20230616_2200 20230616_2210	0.6	S
20230616_2220	0.3	SW
20230616_2220	0.8	NNW
20230616_2230		
20230616 2240	0.8	SSW
20230616_2250 20230616_2300	0.3 0.3	SE
20230010_2300	0.3	
20230616 2220 20230616 2230 20230616 2240 20230616 2240 20230616 2300 20230616 2310 20230616 2310 20230616 2320 20230616 2330 20230616 2340 20230616 2340	0.3	SSW
20230616_2320 20230616_2330	0.3	- 2
20230010_2330		SOM
20230616 2340	0.8	SSW
20230616_2350	0.3	-

Date & Time		
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230617_0000	0.3	SW
20230617_0010 20230617_0020	0.3	N N
20230617_0020	0.3	NE NE
20230617_0040	0.3	SSE
20230617 0050	0	N
20230617_0100	0.3	SE
20230617_0110	0.3	SE
20230617_0120 20230617_0130	0.3	SSE
20230617_0130	0.3	SE SE
20230617_0110	0.5	N
20230617 0200	0	N
20230617_0210	0.3	SE
20230617_0220	0.3	SE
20230617 0230	0	N
20230617_0240 20230617_0250	0 0.3	N SE
20230617_0230	0.3	SSE
20230617 0310	0.5	N
20230617_0320	0	N
20230617 0330	0	N
20230617_0340	0	N
20230617_0350	0.3	SSE
20230617 0400 20230617 0410	0.3	N N
20230617_0410	0	N N
20230617 0430	0	N
20230617_0440	0	N
20230617_0450	0	N
20230617 0500	0	N
20230617_0510	0	N N
20230617_0520 20230617_0530	0	N N
20230617 0530	0	N
20230617 0550	0	N
20230617 0600 20230617_0610	0	N
20230617_0610	0	N
20230617_0620 20230617_0630	0.3	SSE
20230617 0630 20230617 0640	0.3	SSE N
20230617_0650	0	N N
20230617_0000	0	N
20230617 0710	0	N
20230617_0720	0	N
20230617 0730	0	N
20230617_0740 20230617_0750	0	N N
20230617_0750	0.3	N N
20230617_0810	0.3	NE NE
20230617 0820	0.3	-
20230617_0830	1.1	NNW
20230617_0840	0.8	ENE
20230617_0850 20230617_0900	0.3	N N
20230617_0900	0.3	N N
20230617_0910	2.2	N N
20230617_0930	2.8	NNE
20230617_0940	2.5	N
20230617_0950	2.2	NE
20230617_1000	2.2	NNE
20230617 1010 20230617 1020	2.2	NNE NNW
20230617_1020	1.9	N N
20230617_1030	2.2	N N
20230617_1050	2.5	N
20230617_1100	3.3	NNE
20230617 1110	3.3	NNE
20230617_1120	2.8	NNE
20230617_1130 20230617_1140	1.7 2.2	N N
20230617_1140	2.2	N N
20230017_1130	4.4	11

Date & Time	Wind Speed (m/s)	Wind Direction (From)
(YYYYMMBB HHMM)		
20230617_1200	2.5	NNE NNW
20230617_1210 20230617_1220	1.7 1.7	NW
20230617_1230	1.4	NNE
20230617 1240	1.1	NNW
20230617_1250	1.1	NNE
20230617_1300	1.4	N
20230617_1310	1.1	SE
20230617_1320	1.4	S
20230617_1330 20230617_1340	1.1 1.4	WNW
20230617_1350	1.1	SW
20230617_1330	1.7	SW
20230617_1410	1.7	SW
20230617_1420	1.4	SW
20230617 1430	0.8	WSW
20230617_1440	1.7	S
20230617_1450 20230617_1500	1.7	SW
20230617 1500 20230617 1510	1.7 1.4	SSW SW
20230617_1510	1.1	SW
20230617_1520	0.8	-
20230617_1540	2.5	E
20230617_1550	2.5	Е
20230617 1600	2.8	E
20230617_1610	3.3	E
20230617_1620 20230617_1630	2.8 2.8	<u>Е</u> Е
20230617 1640	3.1	<u>Е</u> Е
20230617_1650	3.3	E
20230617 1700	2.5	E
20230617_1710	2.8	ESE
20230617_1720	3.3	ESE
20230617 1730	2.8	ESE
20230617_1740	2.5	ESE E
20230617_1750 20230617_1800	1.7 2.8	ESE
20230617_1810	3.1	ESE
20230617_1820	2.8	ESE
20230617 1830	3.3	ESE
20230617_1840	2.8	ESE
20230617_1850	2.8	ESE
20230617 1900	2.8	ESE
20230617_1910 20230617_1920	2.5 2.8	<u>Е</u> Е
20230617 1930	2.2	E
20230617_1940	2.5	ESE
20230617_1950	2.2	ESE
20230617 2000	1.9	ESE
20230617_2010	2.2	ESE
20230617_2020	2.5 2.2	ESE
20230617_2030 20230617_2040	2.2	ESE ESE
20230617_2040	2.5	ESE
20230617_2100	1.4	ESE
20230617 2110	1.1	SE
20230617_2120	1.4	ESE
20230617_2120 20230617_2130 20230617_2140	1.4	SE
20230617_2140	1.4	SE
20230617_2150 20230617_2200	1.7 1.9	SE SE
20230617_2200	1.7	SE SE
20230617_2220	1.7	ESE
20230617_2230	1.4	SE
20230617 2240	1.7	ESE
20230617 2210	1.7	ESE SE
20230617_2300	1./	SE
20230617 2150 20230617 2200 20230617 2210 20230617 2210 20230617 2220 20230617 2230 20230617 2250 20230617 2250 20230617 2310 20230617 230 20230617 230 20230617 230 20230617 230 20230617 230	1.4	ESE
20230617 2310 20230617 2320 20230617 2330	1.4 1.4 1.7	ESE ESE
20230617_2330	1.1	ENE
20230617_2350	0.8	NW

Date & Time	Wind Speed (m/s)	Wind Direction (From)
(YYYYMMBB HHMM)		
20230618_0000	0.3 0.3	NW
20230618_0010 20230618_0020	0.3	NNW
20230618_0020	0.3	NNW
20230618_0040	0.3	E
20230618_0050	1.1	ESE
20230618_0100	1.1	ESE
20230618_0110	0.8	ESE
20230618 0120	0.3	ESE
20230618 0130	1.1	ESE
20230618_0140	1.4	E
20230618 0150	2.5	ESE
20230618 0200	1.9	Е
20230618_0210	1.7	Е
20230618_0220	2.2	Е
20230618 0230	1.9	Е
20230618_0240	1.7	E
20230618_0250	1.7	ESE
20230618 0300	1.7	ESE
20230618_0310	1.7	SE
20230618_0320	1.7	SE
20230618 0330	1.4	SE
20230618_0340	1.1	ESE
20230618_0350	1.4	ESE
20230618 0400	1.4	ESE
20230618_0410 20230618_0420	1.4	SE SE
20230618_0420 20230618_0430	1.1 0.8	ESE
20230618_0440	0.8	ESE
20230618_0450	0.8	ESE
20230618_0490	1.1	ESE
20230618 0510	0.8	SF
20230618_0520	0.8	SE SE
20230618 0530	0.8	SE
20230618 0540	1.1	SE
20230618_0550 20230618_0600	1.1	SSE
20230618 0600	1.1	SSE
20230618 0610	0.8	S
20230618 0620	0.6	SSE
20230618 0630	0.8	SSE
20230618_0640	0.8	SSE
20230618_0650	0.8	SSE
20230618 0700	0.3	-
20230618_0710	0.8	SSE
20230618_0720	0.8	SSE
20230618 0730	0.8	S
20230618_0740	0.8	SE
20230618_0750	1.4	ENE
20230618 0800	2.2	E
20230618_0810	2.8	E
20230618_0820	2.8	E
20230618_0830	3.3	ESE
20230618_0840 20230618_0850	1.7 3.1	E ENE
20230618_0830	2.8	ESE
20230618_0900	3.9	ESE
20230618_0910	3.3	ESE
20230618 0930	3.3	ESE
20230618_0940	3.6	ESE
20230618_0950	3.9	E
20230618_0000	3.3	E
20230618 1010	3.1	E
20230618_1020	4.2	E
20230618_1030	3.3	Ē
20230618 1040	3.3	E
20230618_1050	3.9	E
20230618_1100	3.1	ESE
20230618 1110	4.2	Е
20230618_1120	3.3	Е
20230618_1130	3.6	Е
20230618 1140	3,3	ESE
20230618 1150	3.6	ENE

Date & Time	TT 10 1/ /	TT 151 1 15 1
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230618_1200	3.9	E
20230618_1210	4.2	E
20230618_1220 20230618_1230	3.3 3.9	E
20230618_1230	3.3	ESE ESE
20230618_1250	3.6	E
20230618_1300	2.8	E
20230618_1310	2.8	ENE
20230618_1320	2.5	-
20230618_1330	2.8	SE
20230618_1340	2.5	ESE
20230618_1350	2.8	E
20230618 1400 20230618 1410	2.8 2.8	ESE ESE
20230618_1420	2.8	SE
20230618_1430	2.5	SE
20230618 1440	2.2	ESE
20230618_1450	2.2	E
20230618 1500	1.9	SE
20230618_1510	2.2	ESE
20230618_1520	2.5	SE
20230618 1530	2.2	ESE
20230618_1540	2.8 2.5	E
20230618_1550		E
20230618 1600 20230618 1610	2.5 3.1	E E
20230618_1620	2.5	E
20230618_1630	2.8	ESE
20230618 1640	2.5	ESE
20230618_1650	2.5	E
20230618 1700	2.5	E
20230618_1710	2.2	E
20230618_1720	1.7	E
20230618 1730	1.9	ESE
20230618_1740 20230618_1750	1.7 1.7	ESE SE
20230618_1730	2.8	ESE
20230618_1810	1.9	E
20230618_1820	2.5	Ē
20230618 1830	1.9	ESE
20230618_1840	1.4	ESE
20230618_1850	1.9	ESE
20230618 1900	1.4	Е
20230618_1910	1.1	ESE
20230618_1920	0.8	ESE
20230618 1930 20230618 1940	0.8 0.6	ESE NE
20230618_1950	1.4	ENE
20230618_1990	1.4	ENE
20230618_2010	1.1	E
20230618_2020	1.1	E
20230618_2030	1.1	E
20230618_2040	0.8	SE
20230618_2050	0.8	SE
20230618_2100	1.1	ESE
20230618_2110	0.3	- N
20230618_2120 20230618_2130	0.3	NE NE
20230618_2130	0.3	ENE
20230618_2150	0.3	SSE
20230618_2150 20230618_2200 20230618_2210	0	N
20230618 2210	0	N
20230618_2220	0.3	NW
20230618_2230	0.8	NE
20230618 2220 20230618 2230 20230618 2240 20230618 2240 20230618 2250 20230618 2300 20230618 2310 20230618 2330 20230618 2330 20230618 2350	0	N
20230618_2250	0	N
20230618_2300	0	N
20230618 2310	0	N N
20230618_2320 20230618_2330	0	N N
20230618_2330	0	N N
20230618_2350	0	N N

Date & Time		
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230619_0000	0.3	SW
20230619_0010 20230619_0020	0	N N
20230619_0020	0.3	ESE
20230619_0040	0.3	SSE
20230619_0050	0	N
20230619 0100	1.1	E
20230619_0110	0.3	ESE
20230619_0120 20230619_0130	0.3	SSE
20230619_0130	0.3	ENE
20230619 0150	0.3	ENE
20230619 0200	0.8	ENE
20230619_0210	0.8	E
20230619_0220	0.6	<u>-</u>
20230619 0230	0.3	E
20230619_0240 20230619_0250	1.1 0.8	<u>Е</u> Е
20230619_0230	1.1	E
20230619_0310	0.8	ENE
20230619_0320	0.8	ENE
20230619 0330	0.8	ENE
20230619_0340	0.8	ENE
20230619_0350	0.8	ESE
20230619 0400 20230619 0410	0.3 0.8	ESE E
20230619_0410	1.1	SE
20230619 0430	1.1	SSE
20230619_0440	1.1	SE
20230619_0450	0.3	SSE
20230619 0500	0.3	SW
20230619_0510 20230619_0520	0.3	SW N
20230619_0520	0	N N
20230619 0540	0	N
20230619_0550 20230619_0600	0	N
20230619 0600	0	N
20230619_0610	0.3	S
20230619_0620 20230619_0630	0.6 0.3	S SSE
20230619_0640	0.3	S
20230619_0650	0.3	SE
20230619 0700	0.3	SE
20230619_0710	1.1	SE
20230619_0720	1.4	SE
20230619 0730 20230619 0740	1.1	SE E
20230619 0750	1.4	SE
20230619 0800	1.4	SE
20230619_0810	1.4	SE
20230619_0820	0.8	ESE
20230619_0830	0.8	SE
20230619_0840 20230619_0850	0.8 1.1	SSE S
20230619_0830	0.8	NE
20230619 0910	0.3	-
20230619_0920	0.8	S
20230619_0930	0.3	S
20230619_0940	0.8	NE
20230619_0950 20230619_1000	0.8 0.8	WNW
20230619_1000	0.8	WSW
20230619_1020	0.3	SSE
20230619_1030	0.8	E
20230619 1040	0.3	NNE
20230619_1050	0.8	SSE
20230619_1100 20230619_1110	1.1	SE S
20230619 1110	0.8 1.7	SE SE
20230619_1120	1.7	SE SE
20230619 1140	1.7	Е
20230619_1150	1.4	Е

Date & Time		
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230619_1200 20230619_1210	1.1 1.7	ENE
20230619_1210	1.7	SE ESE
20230619_1220	1.9	ENE
20230619 1240	2.2	ENE
20230619_1250	2.2	ENE
20230619_1300	1.4	E
20230619_1310	2.2	ESE
20230619_1320 20230619_1330	1.4	ENE N
20230619_1340	1.7	IN .
20230619_1350	2.2	ENE
20230619 1400	0.8	SSW
20230619_1410	1.7	Е
20230619_1420	1.7	SE
20230619 1430 20230619 1440	2.8 2.8	ESE E
20230619_1440	2.5	<u>Е</u> Е
20230619_1500	2.5	E
20230619 1510	2.5	ESE
20230619_1520	3.1	E
20230619 1530	3.3	E
20230619_1540 20230619_1550	3.3 3.3	E
20230619_1550	3.3	E E
20230619 1610	3.1	<u>Е</u> Е
20230619 1620	3.1	Ē
20230619 1630	3.3	Е
20230619_1640	3.9	E
20230619_1650	3.3	ESE
20230619 1700 20230619_1710	2.8 2.8	ESE ESE
20230619_1710	2.8	E
20230619 1730	2.2	E
20230619_1740	2.8	E
20230619_1750	2.5	Е
20230619 1800	2.8	ESE
20230619_1810 20230619_1820	2.5 3.1	ESE E
20230619_1830	2.5	E
20230619_1840	2.5	ESE
20230619_1850	2.5	ESE
20230619 1900	3.1	ESE
20230619_1910 20230619_1920	1.7	E SE
20230619_1920	1.7	SE SE
20230619 1940	2.2 2.5	SE
20230619 1950	3.1	SE
20230619 2000	3.1	SE
20230619_2010	2.8	SE
20230619_2020 20230619_2030	2.2 2.5	SE SE
20220610 2040	3.1	SE SE
20230619 2050	3.3	SE
20230619_2100	3.3	SE
20230619_2110	2.2	SE
20230619 2120	1.9 2.2	SE
20230619_2130 20230619_2140	2.2	SE SE
20230619_2140	2.3	ESE ESE
20230619 2200	1.7	SE
20230619 2210	2.5	ESE
20230619_2220	2.2	SE
20230619_2230	1.7	SE
20230619 2240 20230619 2250	1.4	SE SE
20230619_2230	2.2	SE SE
20230619_2300	2.2	SE
20230619_2320	2.5	SE
20230619_2330	1.7	SE
20230619 2340	2.2	ESE
20230619_2350	2.2	ESE

Date & Time	TT 10 1/ //	TT 151 1 (5 )
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230620_0000	1.7	ESE
20230620_0010	1.1	SE SE
20230620_0020	1.4	SE
20230620_0030	1.7 1.7	ESE
20230620_0040 20230620_0050	0.8	ESE SE
20230620_0030	1.1	ESE
20230620_0100	1.4	SE
20230620_0110 20230620_0120	1.4	SE SE
20230620_0130	1.7	ESE
20230620_0140 20230620_0150	1.1	ESE ESE
20230620_0150	1.1	ESE
20230620 0200	1.1	ESE ESE SE
20230620_0210 20230620_0220	1.4	ESE
20230620_0220	1.9	SE
20230620 0230 20230620 0240 20230620 0250	1.4 1.7	SE
20230620_0240	1.7 1.7	ESE ESE
20230020_0230	2.5	ESE
20230620 0300 20230620 0310	1.7	ESE ESE SSE
20230620_0310	1.1	SSE
20230620 0330	1.4	SE
20230620 0340	1.7	ESE
20230620 0350	1.7	ESE
20230620_0400	2.2 2.2	SE
20230620 0410		ESE
20230620 0420	1.7	ESE
20230620 0430	1.7	ESE
20230620_0440	1.1	SE
20230620_0450	0.8	ESE
20230620 0500	1.4	ESE SE
20230620_0510 20230620_0520	1.4 1.4	ESE ESE
20230620_0520	1.4	ESE
20230620_0540	0.8	SE
20230620_0540	0.8	SSE
20230620 0600	0.8	SE
20230620 0610	1.7	ESE
20230620_0620	1.4	SE
20230620 0630	1.9	SE
20230620_0640	1.7	SE
20230620_0650	2.5	SE
20230620 0700	2.5	SE
20230620_0710 20230620_0720	2.5 3.1	ESE ESE
20230620_0720	2.5	ESE
20230620_0740	2.2	ESE
20230620_0750	1.9	E
20230620 0800	1.9	E
20230620 0810	2.2	Ē
20230620_0820	2.2	Е
20230620_0830	1.7	Е
20230620_0840	2.5	<u>E</u>
20230620_0850	1.9	E
20230620_0900	1.4	NE ESE
20230620 0910 20230620 0920	1.1 1.4	ESE E
20230620_0920	0.8	ESE
20230620_0930	1.7	SSE
20230620 0740	1.4	S
20230620_1000	0.3	-
20230620 1010	1.1	W
20230620_1020	1.4	ESE
20230620_1030	0.8	W
20230620 1040	0.8	NW
20230620_1050	1.4	NNW
20230620_1100	1.7	WSW
20230620 1110 20230620_1120	1.1 1.4	SSW WNW
20230620_1120	0.8	SW
20230620_1130	1.4	WSW
20230620_1150	1.4	S

Date & Time	W. 10 1( ()	W. ID. C. (E.)
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230620_1200	2.2	WSW
20230620_1210	1.7	WSW
20230620_1220	1.7	W
20230620_1230	1.7	W
20230620_1240	2.8	WNW
20230620_1250	2.2	W W
20230620_1300 20230620_1310	1.9 2.2	W
20230620_1310	2.5	WSW
20230620_1320	2.8	SW
20230620_1340	2.5	WSW
20230620_1350	2.8	SSW
20230620 1400	3.1	WSW
20230620_1410 20230620_1420	2.8 3.3	WSW
20230620_1420	3.3	SW
20230620 1430	3.1	WSW
20230620_1440	2.8	SW
20230620_1450	2.8	SW
20230620 1500 20230620 1510	2.5 1.7	SW SW
20230620_1510	2.8	SW
20230620_1520	2.0	SW
20230620 1540	2.8 2.8	SW
20230620_1550	1.9	SW
20230620 1600	1.9	SW
20230620_1610	2.5	ESE
20230620_1620	3.9	ESE
20230620 1630	3.1	ESE
20230620_1640 20230620_1650	3.9	ESE
20230620_1650	3.3	E
20230620 1700 20230620 1710	3.3 3.3	ESE ESE
20230620_1710	3.6	ESE ESE
20230620_1720	3.1	ESE
20230620 1740	3.1	ESE
20230620_1750	3.1	ESE
20230620 1800	3,3	ESE
20230620_1810	3.3	Е
20230620_1820	2.8	ESE
20230620 1830	2.8	ESE
20230620_1840	2.5	ESE
20230620_1850	2.5	ESE
20230620 1900	2.2	ESE SE
20230620_1910 20230620_1920	2.2	ESE ESE
20230620_1920	1.7	SE
20230620 1940	1.9	ESE
20230620 1950	2.8	ESE
20230620 2000	2.2	ESE
20230620_2010	2.8	ESE
20230620_2020	2.5	ESE
20230620_2030	2.5	ESE
20230620_2040	2.8	SE
20230620_2050	1.7	ESE
20230620_2100 20230620_2110	2.2	SE SE
20230620_2110	1.9	SE SE
20230620_2120	1.9 1.7	SE SE
20230620_2140	1.7	SE
20230620 2150	1.7	SE
20230620_2200	1.7	SE
20230620 2210	1.4	ESE
20230620_2220	1.7	SE
20230620_2230	1.7	SE
20230620 2240	1.1	ESE
20230620_2250	0.8	SE
20230620_2300	1.1	SE
20230620 2310	0.8	SE
20230620_2320 20230620_2330	0.6 1.1	E SE
20230620_2330	0.8	SSE
20230620_2350	1.4	SE
20230020_2330	44.1	UL

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230621_0000	1.4	SE
20230621_0010	0.8	ESE
20230621_0020	0.8	ESE
20230621_0030	0.8	SE
20230621_0040	0.8	SSE
20230621_0050	0.6	S
20230621_0100	0	N
20230621_0110	0	N
20230621_0120	0	N
20230621_0130	0.3	SSW
20230621 0140	0.3	S
20230621_0150	0.3	SE
20230621_0100	0.3	SSE
20230621 0200 20230621 0210 20230621 0220	0.6	SE
20230621_0210	0.8	SE
20230621_0220	0.6	SSE
20230621_0240	0.3	SSW
20230621_0240	0.3	S
20230021_0230		
20230621 0300	0.8	SSE
20230621_0310		SSE
20230621_0320	0.3	S
20230621 0330	0.3	SSE
20230621_0340	0.3	SSE
20230621_0350	0.3	S
20230621_0400 20230621_0410	0	N
20230621_0410	0.3	ENE
20230621_0420	0.3	SE
20230621 0430	0	N
20230621_0440	0	N
20230621 0450	0	N
20230621 0500	0	N
20230621 0510	0	N
20230621_0520	0	N
20230621 0530	0	N
20230621_0540	0	N
20230621_0550	0.3	SSE
20230621_0500	0.3	SE
20230621_0610	0.3	SSE
20230621_0010	0.5	N N
20230621_0630	0	N N
20230621 0640	0.3	SSE
20230621_0650	0.3	N N
20230621 0700	0.8	SSE
20230621_0710	0.8	ESE
20230621_0720	1.4	ESE
20230621 0730	1.7	SSE
20230621_0740	1.4	SE
20230621_0750	1.1	SE
20230621 0800	1.4	SE
20230621_0810	1.4	SE
20230621_0820	1.4	SE
20230621_0830	0.8	-
20230621_0840	0.8	-
20230621_0850	0.6	S
20230621_0900	0.8	SW
20230621_0910	0.8	WNW
20230621_0920	0.8	WNW
20230621_0930	1.1	SW
20230621_0940	0.3	-
20230621_0950	0.8	W
20230621_0930	1.4	WNW
20230621_1000	0.8	WSW
20230621 1010		NW NW
20230621_1020	1.1	
20230621_1030	0.8	NE
20230621 1040	1.1	SW
20230621_1050	1.4	SSE
20230621_1100	0.8	SW
20230621 1110	0.3	-
20230621 1120	0.3	-
20230621_1130	2.2	SE
20230621 1140	3,3	ESE
	2.5	ESE

Date & Time	TT 10 1/ /	
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230621_1200	2.5	ESE
20230621_1210	2.5	ESE
20230621_1220	2.2	SE
20230621_1230 20230621_1240	2.5 2.5	E E
20230621_1240	2.2	ENE
20230621_1300	2.8	ENE
20230621_1310	3.1	E
20230621_1320	2.8	ESE
20230621_1330	3.3	ESE
20230621_1340	3.3	E
20230621_1350 20230621_1400	2.8 3.3	<u>Е</u> Е
20230621_1410	2.8	E
20230621_1410	3.9	E
20230621 1430	4.2	E
20230621_1440	3.6	E
20230621_1450	3.3	E
20230621 1500	3.3	E
20230621_1510	3.3	E
20230621_1520 20230621_1530	3.9 3.3	E
20230621_1540	3.3	<u>Е</u> Е
20230621_1550	2.8	E
20230621_1600	3.1	E
20230621_1610	2.8	ESE
20230621_1620	3.3	ESE
20230621 1630	3.9	ESE
20230621_1640	3.3	ESE
20230621_1650 20230621_1700	3.3 2.8	E E
20230621 1700	3.3	<u>Е</u> Е
20230621_1710	3.3	E
20230621 1730	2.8	ESE
20230621_1740	2.5	ESE
20230621_1750	2.5	ENE
20230621 1800	2.8	E
20230621_1810	2.5	E
20230621_1820 20230621_1830	3.1 2.5	E ESE
20230621_1840	2.2	ESE
20230621_1850	2.2	ESE
20230621 1900	2.5	E
20230621_1910	2.5	ESE
20230621_1920	2.5	E
20230621 1930	3.3	ESE
20230621_1940 20230621_1950	2.5 2.5	E ESE
20230621_1930	3.3	ESE
20230621_2010	2.2	ESE
20230621_2020	1.7	ESE
20230621_2030	2.5	ESE
20230621_2040	2.8	ESE
20230621_2050	2.5 2.8	ESE
20230621_2100	2.8	ESE
20230621_2110 20230621_2120	3.3	ESE ESE
20230621_2120 20230621_2130	2.8 2.2	ESE
20230621 2140	3.1	E
20230621_2150	3.3	E
20230621_2200	3.1	ESE
20230621 2210	2.8	ESE
20230621_2220 20230621_2230	2.2 2.8	ESE
20230621_2230	2.8	E
20230621 2240	2.8	E ESE
20230621_2250 20230621_2300	3.3 3.3	ESE ESE
20230621 2310	2.8	ESE
20230621_2320	3.1	E
20230621_2320 20230621_2330	3.3	ESE
20230621 2340	3.1	ESE
20230621_2350	3.3	ESE

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230622 0000	2.8	ESE
20230622_0010	3.9	ESE
20230622_0020	3.9	ESE
20230622_0030	2.8	ESE
20230622_0040	3.9	ESE
20230622_0050	3.3	ESE
20230622 0100	4.2	ESE
20230622_0110	3.9	E
20230622_0120	4.4	E
20230622_0130 20230622_0140	3.9 4.4	ESE
20230622_0140	3.3	ESE ESE
20230622_0140 20230622_0150 20230622_0200 20230622_0210	3.3 3.3	ESE
20230622 0210	3.6	E
20230622_0220	3,9	E
20230622 0230	4.2	Е
20230622_0240	3.9	ESE
20230622_0250	3.3	ESE
20230622 0300 20230622_0310	3.6	ESE ESE
20230622_0310	3.3	ESE
20230622_0320	3.1	E
20230622 0330	3.3	ESE
20230622_0340	2.8	E
20230622 0350 20230622 0400 20230622 0410	3.3 2.8	ESE
20230622 0400	2.8	ESE ESE
20230622_0410	2.5	ESE E
20230622_0420	2.3	E
20230622_0440	2.5	ESE
20230622 0450	2.2	ESE
20230622 0500	2.8	ESE
20230622 0510	2.5	ESE
20230622_0520	2.5	ESE
20230622 0530	3.3	ESE
20230622_0540	3.9	ESE
20230622_0550	3.3	ESE
20230622 0600	3.9	ESE
20230622_0610 20230622_0620	3.3 2.8	ESE ESE
20230622_0620	2.8	ESE
20230622_0640	2.5	ESE
20230622 0650	2.8	ESE
20230622 0700	2.8	ESE
20230622 0710	2.5	ESE
20230622_0720	3.1	ESE
20230622 0730	3.3	ESE
20230622_0740	4.2	ESE
20230622_0750	2.5	ESE
20230622 0800	2.5 2.2	ESE
20230622_0810 20230622_0820	1.7	ESE
20230622_0820	1.7	ESE
20230622_0840	1.7	E E
20230622_0850	1.7	ESE
20230622_0900	2.2	E
20230622 0910	1.9	Е
20230622 0920	2.2	E
20230622_0930	2.8	ESE
20230622_0940	3.3	ESE
20230622_0950	3.3	ESE
20230622_1000	1.9	E
20230622 1010 20230622_1020	3.3 3.3	E
20230622_1020 20230622_1030	2.5	ESE ESE
20230622_1030	3.1	ESE
20230622_1050	3.3	ESE
20230622_1000	2.8	ESE
20230622_1100	2.2	ESE
20230622 1120	3.1	ESE
20230622 1130		Dan
	2.8	ESE
20230622_1130 20230622_1140 20230622_1150	2.8 2.8 3.1	ESE ESE

Date & Time		
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230622_1200	2.5	ESE
20230622_1210 20230622_1220	2.5	E
20230622_1220 20230622_1230	2.8	ENE
20230622_1230	2.8 3.1	ENE
20230622 1230 20230622 1240 20230622 1250 20230622 1300	2.8	ENE E
20230622_1230	2.5	E
20230622 1310	3,3	Ē
20230622_1320	3.3 3.3	Е
20230622_1330	3.3	E
20230622_1340	3.3 3.3	E
20230622_1350	3.3	ESE
20230622 1400	3.0	<u>Е</u> Е Е
20230622_1410	2.8	E E
20230622_1430	3.1	E
20230622_1440	3.3	E
20230622_1450	3.3	Е
20230622 1500	3.3	ESE
20230622_1510	3.1 3.3	E
20230622_1520	3.3	ESE SE
20230622 1530	3.3	SE ESE
20230622_1540	3.9	ESE
20330622 1300 20330622 1300 20330622 1300 20330622 1330 20330622 1330 20330622 1330 20330622 1350 20330622 1400 20330622 1440 20330622 1440 20330622 1440 20330622 1450 20330622 1500	3.3	ESE
20230622_1610	3.3	SE
20230622_1620	3.3	ESE
20230622 1630 20230622 1640 20230622 1650	3.9	SE
20230622_1640	2.8	SE
20230622_1650	2.8	ESE ESE
20230622 1700 20230622 1710	2.8	ESE
20230622 1720	3.3	E
20230622 1730 20230622 1740	2.8	ESE
20230622_1740	2.8	ESE
20230622 1750	3.3	ESE
20230622 1800 20230622 1810	3.3	ESE
20230622_1810 20230622_1820	3.6 3.3	ESE ESE
20230022_1620	3.3	ESE
20230622 1830 20230622 1840	3.1	ESE
20230622_1850	3.1	ESE
20230622 1900	3,3	ESE
20230622_1910	2.2	ESE
20230622_1920	2.2	ESE
20230622 1930	2.2	ESE
20230622_1940 20230622_1950	2.8	SE ESE
20230622_1930	2.5	ESE
20230622 2010	2.8	SE
20230622 2020	3.3	ESE
20230622 2030	2.8	ESE
20230622_2040	2.8	ESE
20230622_2050	3.1	ESE
20230622_2100	3.3	SE
20230622_2110 20230622_2120	3.3	SE SE
20230622_2120	3.3	ESE
20230622 2140	2.2	ESE
20230622 2150	3.1	ESE
20230622_2200	2.5	ESE
20230622 2210	2.5	ESE
20230622_2220	3.3	E
20230622_2230	2.2 3.3	ESE
20230622 2240 20230622_2250	3.3	ESE ESE
20230622_2230	3.9	SE SE
20230622_2300	4.2	SE
20230622 2320	3.9	ESE
20230622_2330	4.2	SE
20230622 2340	4.2	ESE
20230622_2350	3.9	SE

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230623_0000	3.9	SE
20230623_0010	2.8	ESE
20230623_0020	3.1	ESE
20230623_0030	3.3	ESE
20230623_0040	3.3	ESE
20230623_0050	3.3	ESE
20230623_0100	4.2	ESE
20230623_0110	3.3	ESE
20230623_0120	3.6	SE
20230623_0130	3.3	ESE
20230623_0140	3.3	ESE
20230623 0150 20230623 0200 20230623 0210 20230623 0220	3.3	E
20230023 0200	3.3 3.1	<u>Е</u> Е
20230023_0210	3.3	E E
20230623_0220	3.9	E E
20230623 0230 20230623_0240	3.9	ESE
20230623_0240	3.3	ESE
20230623_0230	3.1	
20230623 0310	3.1	ESE ESE
20230623_0310	3.1	E E E
20230623_0320	2.5	SE SE
20230623 0340	2.5	ESE ESE
20230623_0340	2.5	ESE
20230623_0350 20230623_0400 20230623_0410	2.3	ESE
20230623 0400	1.9	ESE E
20230623_0420	1.7	E E
20230623_0420	1.7	ESE
20230623_0440	2.5	ESE
20230623_0440	3.1	ESE
20230623_0450	2.5	ESE
20230623_0510	2.5	ESE
20230623_0520	2.5	ESE
20230623_0520	2.5	E
20230623_0540	3.1	E
20230623_0540	2.5	Ē
20230623_0530	2.5	ESE
20230623 0610	2.5	ESE
20230623_0610	1.7	ESE
20230623_0630	2.8	E
20230623 0640	2.8	Ë
20230623 0650	2.2	ESE
20230623 0700	2.2	ESE
20230623 0710	2.5	ESE
20230623_0720	2.8	ESE
20230623 0730	3.1	ESE
20230623_0740	3,3	ESE
20230623_0750	2.8	ESE
20230623_0750	2.2	E
20230623 0810	3,3	Ë
20230623_0820	3.1	ESE
20230623_0830	3.3	ESE
20230623 0840	3.3	ESE
20230623_0850	3.3	ESE
20230623_0900	2.8	ESE
20230623_0910	2.5	ESE
20230623_0920	2.5	ESE
20230623_0930	2.5	ESE
20230623_0940	2.8	ESE
20230623_0950	3.3	ESE
20230623 1000	3.3	ESE
20230623 1010	3.6 2.8	SE
20230623_1020	2.8	ESE
20230623_1030	3.3	SE
20230623 1040	3.1	ESE
20230623_1050	3.3	ESE
20230623_1100	3.9	ESE
20230623 1110	4.2	ESE
20230623 1120	3,9	Е
20230623_1130	3.3	ESE
20230623 1140	2.8	ESE
20230623 1150	2.5	ESE

Date & Time		
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230623 1200 20230623_1210	3.3	ESE
20230623_1210	2.8	ESE
20230623_1220	2.5	ESE
20230623_1230	2.8	ESE
20230623_1240 20230623_1250	2.8 2.8	ESE ESE
20230623_1230	2.8	ESE
20230623_1310	2.0	E E E E E E E E E E E E E E E E E E E
20230623_1320	3.1	E
20230623 1330	3.3	ESE
20230623_1340	3.3	E
20230623_1350	3.3	Е
20230623 1400	2.5	E
20230623_1410 20230623_1420	2.5 3.1	ESE ESE
20230623_1420	3.3	SE SE
20230623 1440	3.3	SE SE
20230623 1450	3.3	E
20230623 1500	3.1	ESE
20230623 1510	3.3	ESE
20230623_1520	3.1	E
20230623 1530	2.2	ESE
20230623_1540	2.5	ESE
20230623_1550	3.1	ESE
20230623 1600 20230623 1610	2.8 2.8	ESE ESE
20230623_1610	3.1	ESE
20230623_1630	2.8	ESE
20230623 1640	2.2	ESE
20230623_1640 20230623_1650	2.2 2.2	E
20230623 1700	2.2	SE
20230623_1710	2.2	ESE
20230623_1720	2.2	ESE
20230623 1730	1.9	ESE
20230623_1740 20230623_1750	1.7 1.7	ESE
20230623_1730	2.5	E ENE
20230623 1810	2.5	ENE
20230623_1820	2.5	ENE
20230623 1830	1.7	ESE
20230623 1840	2.2	SE
20230623_1850	1.7	SE
20230623 1900	2.5	SE
20230623_1910 20230623_1920	2.2 2.2	SE SE
20230623_1920	2.2	SE
20230623 1930 20230623 1940	2.5 1.9	SE
20230623 1930 20230623 1940 20230623 1950	2.2	ESE ESE
20230623_1750	2.2	SE
20230623 2000 20230623 2010 20230623 2020	2.8 2.5	SE
20230623_2020	3.1	SE
20230623_2030	2.8	SE
20230623_2040	3.3	ESE
20230623 2040 20230623 2050 20230623 2100 20230623 2110	3.3	ESE
20230623_2100 20230623_2110	3.3	ESE
20230623_2110	3.1 2.8	ESE ESE
20230623 2110 20230623 2120 20230623 2130 20230623 2140 20230623 2150	2.8	ESE ESE
20230623_2130	2.3	ESE E
20230623_2150 20230623_2150	3,3	Ē
20230623_2200	2.5	Е
20230623 2210	2.8	E
20230623_2220	2.2	ENE
20230623_2230	2.2	ENE
20230623 2240	2.5	E
20230623_2250	2.5	ENE
20230623_2300	2.2	ENE
20230623 2310 20230623 2320	2.5 2.2	E E
20230623_2320 20230623_2330	2.2	<u>Е</u> Е
20230623_2330	2.5	ESE
20230623_2350	2.2	ESE
20230023_2330	4.4	LAL

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230624_0000	1.9	ESE
20230624_0010	2.2	ESE
20230624_0020	2.5	ESE
20230624_0030	3.1	E
20230624_0040	2.2	E
20230624_0050	2.8	Е
20230624_0100	2.5	ENE
20230624_0110	2.2	Е
20230624_0120	1.9	ENE
20230624 0130	2.2	Е
20230624 0140	2.5	Е
20230624_0150	2.5 2.5	E
20230624 0150 20230624 0200 20230624 0210 20230624 0220	2.5	Ē
20230624_0210	2.5 2.2	Ē
20230624 0220	2.5	Ē
20230624 0230	2.5	E
20230624_0240	2.8	Ē
20230624_0240	2.5	E
20230624_0230	3.3	
	2.8	E
20230624_0310		E
20230624_0320	2.5 1.7	E
20230624 0330		ESE
20230624_0340	1.1	SE
20230624_0350	0.8	E
20230624_0400 20230624_0410	0.8	ESE
20230624_0410	0.8	SSE
20230624_0420	0.8	S
20230624 0430	0.8	SE
20230624_0440	1.7	ESE
20230624 0450	0.8	ESE
20230624 0500	1.1	E
20230624 0510	1.7	ESE
20230624_0520	1.7	E
20230624_0520	0.8	ESE
20230624_0540	1.7	E
20230624_0540	1.1	ESE
	1.1	E ESE
20230624_0610		ESE
20230624_0620	1.1	ESE
20230624 0630	1.4	E
20230624_0640	1.4	ESE
20230624_0650	1.1	ESE
20230624 0700	1.1	ESE
20230624_0710	1.7	ESE
20230624_0720	2.2	E
20230624 0730	2.2	E
20230624_0740	2.2	ESE
20230624_0750	1.7	ESE
20230624 0800	1.9	SE
20230624 0810	2.8	SE
20230624_0820	2.5	SE
20230624 0830	1.7	ESE
20230624_0840	1.7	ESE
20230624_0850	1.7	ESE
20230624_0900	2.5	SE
20230624_0910	1.9	E
20230624_0920	2.8	E
20230624_0930	2.8	ESE
20230624_0940	2.8	ESE
	2.0	SE SE
	2.0	
	2.8 2.5 2.5 1.9	ESE
20230624 1010 20230624_1020	2.3	ESE ESE
20230624_1020		ESE
20230624_1030	2.2	ESE
20230624 1040	2.8	E
20230624_1050	2.8	ESE
20230624_1100	2.8	ESE
20230624 1110	2.8	ESE
20230624 1120	2.8 2.5	ESE
20230624 1130	2.2	E
	3.3	E
20230624 1140		

Date & Time		
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230624 1200	2.5	ESE
20230624 1200 20230624 1210 20230624 1220	2.5 2.5	Е
20230624_1220	2.5	ESE
20230624 1230 20230624 1240	3.3	E
20230624_1240	2.2	ESE
20230624_1250	3.1	ESE
20230624_1300	2.5	ESE
20230624_1310 20230624_1320	2.8 3.3	E ESE
20230624_1320	2.8	
20230624_1330	2.5	E E
20230624_1340 20230624_1350	2.5 2.5	Ē
20230624 1400	3.3	E
20230624_1410 20230624_1420	3.1	E
20230624_1420	2.8	Е
20230624 1430	3.3	E
20230624_1440 20230624_1450	3.3 2.2 2.5	E
20230624_1450	2.5	E
20230624 1500	2.8 2.2	E
20230624 1500 20230624 1510 20230624 1520	2.2	E E
20230624_1520	1.7	ESE
20230624 1540	2.2	ESE E
20230624_1550	2.2	E
20230624_1550	2.5	E
20230624_1610	2.5 2.2	Ē
20230624_1620	2.5	E
20230624 1630	2.5	E
20230624_1640	2.2	Е
20230624_1650	2.2	E
20230624 1700	1.9	E
20230624_1710	1.7	ESE
20230624_1720	1.7	ESE
20230624 1730 20230624 1740	1.7 2.2	E ESE
20230624_1740	1.7	E ESE
20230624_1750	2.2	ESE
20230624_1810	1.7	ESE
20230624_1820	1.4	ESE
20230624 1830	1.4	ESE
20230624 1840	1.7	SE
20230624_1850	0.8	ESE
20230624 1900	1.4	SE
20230624_1910	1.7	SE
20230624_1920	1.7	SE
20230624 1930	1.4	SE
20230624_1940 20230624_1950	1.7 1.7	SE ESE
20230624_1950	2.2	SE SE
20230624 2000	2.2	SE SE
20230624_2010	2.2	SE SE
20230624_2020	1.7	SE
20230624 2040	1.4	SE
20230624 2050	1.4	ESE
20230624_2100	1.1	ESE
20230624_2110	1.7	ESE
20230624_2120	1.4	SE
20230624_2130	1.1	ESE
20230624_2140	1.1	ESE
20230624_2150 20230624_2200	1.1 1.4	E ESE
20230624_2200	1.7	E ESE
20230624_2220	1.7	ESE
20230624_2220	1.7	E
20230624 2240	1.4	E
20230624 2250	1.7	ESE
20230624_2300	1.4	SE
20230624 2310	2.2	SE
20230624_2320	1.4	ESE
20230624_2330	1.4	SE
20230624 2340	1.1	SE
20230624_2350	1.7	SE

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230625 0000	1.1	ESE
20230625_0010	1.1	ESE ESE
20230625 0020	1.7	ESE
20230625 0030	1.7	SE
20230625_0040	2.2	ESE
20230625_0050	2.2	ESE
20230625_0100	1.7	SE
20230625_0110	2.2	SE
20230625_0120	1.7	SE
20230625_0130	1.4	SE
20230625_0140	1.7	SE
20230625_0140	1.4	SE
20230625 0150 20230625 0200 20230625 0200 20230625 0210 20230625 0220	1.4	ESE
20230023 0200	1.4	E
20230023_0210	1.4	<u>Е</u> Е
20230625_0220		
20230625 0230	1.7	E
20230625_0240	1.4	E
20230625_0250	0.6	Е
20230625 0300 20230625_0310	0.3	SE
20230625_0310	0.6	E
20230625 0320	0.8	ENE
20230625 0330	1.1	Е
20230625_0340	1.7	E
20230625 0350 20230625 0400 20230625 0410	1.1	Ē
20230625 0400	1.1	E
20230625 0400	1.1	Ē
20230625_0420	0.8	ESE
20230625_0430	1.4	ESE
20230625_0440		E
20230625_0440	1.1	NE
		INE
20230625 0500		
20230625_0510	0.3	E
20230625_0520	1.1	Е
20230625 0530	1.4	ENE
20230625_0540	0.8	Е
20230625_0550	0.8	Е
20230625 0600	0.3	SE
20230625 0610	1.1	ESE
20230625 0620	1.4	ENE
20230625 0630	1.7	E
20230625 0640	1.9	Е
20230625 0650	1.7	Е
20230625 0700	2,2	E
20230625 0700	1.4	ESE
20230625_0720	1.4	ESE
20230625_0720	1.1	ESE
20230625_0740	1.1	ESE E
	1.7	ESE
20230625 0800	2.2	ESE
20230625_0810	1.4	ESE
20230625_0820	1.7	ESE
20230625_0830	1.9	ESE
20230625_0840	1.7	ESE
20230625_0850	1.4	ESE
20230625_0900	1.4	E
20230625_0910	1.4	Е
20230625_0920	1.4	Е
20230625_0930	1.7	Е
20230625 0940	1.4	ESE
20230625_0950	1.1	E
20230625_1000	1.7	Ē
20230625_1010	1.4	ENE
20230625 1010 20230625_1020	1.4	ESE
20230625_1030		ESE
	1.7	
20230625 1040	1.7	ESE
20230625_1050	1.4	E
20230625_1100	1.7	E
20230625 1110	1.9	E
20230625 1120	1.7	E
20230625_1130	1.9	Е
20230625 1140	2,2	ENE
	2.5	ENE

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(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230625_1200	2.2	ESE
20230625_1210	2.2	E
20230625_1220 20230625_1230	2.8 2.2	ENE E
20230625_1230	2.5	ESE
20230625 1250	2.5	ESE
20230625_1300	2.2	E
20230625_1310	2.2	ESE
20230625_1320	2.2	ESE
20230625_1330	1.7	ESE
20230625_1340	1.4	SE
20230625_1350 20230625_1400	1.7 2.2	ESE SE
20230625_1410	1.7	SSE
20230625_1420	2.5	SE
20230625 1430	2.5	E
20230625 1440	2.8	Е
20230625_1450	2.5	ESE
20230625 1500	3.3	Е
20230625_1510	3.3	E
20230625_1520	3.3	ESE
20230625 1530 20230625 1540	3.3 3.3	E
20230625_1540	2.8	E E
20230625 1600	3.1	E
20230625 1610	2.5	E
20230625_1620	2.8	ESE
20230625 1630	2.5	ESE
20230625 1640	3.3	E
20230625_1650	2.8	Е
20230625 1700	2.8	E
20230625_1710	2.5	E
20230625_1720 20230625_1730	2.5 2.5	ESE E
20230625_1740	1.7	E E
20230625_1750	1.7	E
20230625 1800	1.7	ESE
20230625 1810	2.2	Е
20230625_1820	1.4	Е
20230625 1830	1.4	SE
20230625_1840	1.7	ESE
20230625_1850 20230625_1900	1.7 1.4	E E
20230625_1910	1.9	E E
20230625_1920	2.5	ESE
20230625 1930	2.8	SE
20230625_1940	1.7	SE
20230625_1950	1.4	ESE
20230625 2000	1.7	ESE
20230625_2010	1.4	ESE
20230625_2020	1.4 1.4	ESE ESE
20230625 2010 20230625 2020 20230625 2030 20230625 2040	1.7	ESE E
20230625_2050	1.1	ESE
20230625_2100	1.1	ESE
20230625 2110	1.4	ESE
20230625_2120 20230625_2130 20230625_2140	1.7	ESE
20230625_2130	1.7	Е
20230625_2140	1.7	E
20230625_2150 20230625_2200	1.7	E
20230625_2200	1.7	E
20230625 2210	1.7	ESE
20230625_2220 20230625_2230	1.7 1.7	ESE ESE
20230625_2230	1 9	ESE
20230625 2250	1.7	ESE
20230625_2250 20230625_2300	1.7	ESE E
20230625 2310	1.4	ESE
20230625_2320 20230625_2330 20230625_2340	1.4	ESE
20230625_2330	1./	E
20230625 2340	1.4	ESE
20230625_2350	1.9	E

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230626_0000	2.2	E
20230626_0010	1.7	E
20230626_0020	1.7	E
20230626_0030	1.1	E
20230626_0040	1.1	Е
20230626_0050	1.4	E
20230626_0100	1.1	E
20230020_0100		ESE
20230626_0110	1.1	ESE
20230626_0120	1.4	ESE
20230626_0130	1.4	ESE
20230626_0140	0.8	ESE
20230626 0150 20230626 0200 20230626 0210 20230626 0220	1.1	ESE
20230626_0200	1.1 1.7	ESE ESE
20230626_0210	1.7	FSF
20230626_0210	1.1	ESE
20230020_0220		
20230626 0230	0.8	ESE
20230626_0240	0.8	SE
20230626_0250	1.4	ESE
20230626 0300	1.4	ESE
20230626_0310	0.8	ENE
20230626_0320	0.3	ESE
20230626_0320	0.5	N ESE
20220626 0240		
20230626_0340	0.3	SE
20230626_0350	1.1	E
20230626 0400 20230626 0410	0.8	E
20230626 0410	0	N
20230626_0420	0	N
20230626 0430	0.3	-
20230020 0430		SE
20230626_0440	1.1	SE FOR
20230626_0450	0.8	ESE
20230626 0500	1.1	SE
20230626_0510	0.8	SE
20230626_0520	1.1	ESE
20230626 0530	1.4	ESE
20230626_0540	0.8	SE
20230020_0340		
20230626_0550	0.8	ESE
20230626 0600	0.3	-
20230626_0610	0.3	ESE
20230626_0620	0.6	ESE
20230626 0630	0.8	E
20230626_0640	1.4	ESE
20230626 0650	0.3	SE
20230626_0000	1.4	ESE
20230626_0710	1.7	ESE
20230626_0720	1.7	ESE
20230626 0730	2.5	ESE
20230626_0740	2.2	ESE
20230626 0750	2.2	ESE
20230626 0800	2.2	ESE
20230626 0810	1.7	E
	1.4	<u>E</u> E
20230626_0820	1.4	
20230626_0830	1.9	E
20230626_0840	1.7	E
20230626_0850	2.2	E
20230626_0900	2.2	Е
20230626 0910	1.9	Е
20230626_0920	2.2	ESE
20230626_0930	2.2	E
	2.2	
20230626_0940	2.2	E
20230626_0950	1.7	ESE
20230626_1000	1.7	ESE
20230626 1010	2.5 2.8	ESE ESE
20230626_1020	2.8	ESF.
20230626_1030	2.5	ESE
	2.2	
	2.2	ESE
20230626_1050	2.8	ESE
20230626_1100	2.8	ESE
20230626 1110	3.3	ESE
20230626 1120	3.1	ESE
20230626_1120	2.8	E
20230626_1130	3,6	E
20230626_1150	3.3	E

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230626 1200	3,3	ESE
20230626_1200 20230626_1210 20230626_1220	3.3	E
20230626_1210	3.1	ESE
20230626_1220	2.5	ESE
20230626 1230 20230626 1240 20230626 1250	3.3	ESE
20230626 1250	3.3	Е
20230626 1300	2.8	E
20230626 1310	3.3	E
20230626 1310 20230626_1320	3.9	E
20230626 1330	3.3	E
20230626 1340 20230626_1350	3.3	E
20230626_1350	3.3	Е
20230626 1400	2.8	E
20230626 1410 20230626_1420	2.5 2.2	ESE SE
20230626_1420	2.2	SE
20230626 1430	2.8	SSE
20230626 1430 20230626 1440 20230626 1450	2.5	SSE
20230626_1450	2.5	SSE
20230626 1500 20230626 1510 20230626 1520	2.2	SSE
20230626_1510	1.9	SE
20230626_1520	2.8	SSE
20230626 1530	2.8 2.8	SSE
20230626_1540	2.8	SSE
20230626_1550	2.5	SSE
20230626 1600	2.2	SE ENE
20230626_1610	2.5	
20230626_1620 20230626_1630	2.8	E ESE
20230626_1640	3.1	ESE E
20230626_1650	3.1	ESE
20230626_1700	3.1	ESE E
20230626_1710	2.8	E E
20230626_1720	2.8	E
20230626_1720	3.3	E
20230626_1740	3.1	ESE
20230626_1750	2.8	E
20230626_1750	2.8	Ē
20230626_1810	3.1	Ē
20230626_1820	3.1	ESE
20230626 1830	2.5	E
20230626_1840	2.8	E
20230626_1850	2.5	ESE
20230626 1900	3.1	ESE
20230626_1910	2.2	ESE
20230626_1920	2.5	E
20230626 1930	1.9	E
20230626_1940	2.2	ESE
20230626_1950	1.9	ESE
20230626 2000	1.7	Е
20230626_2010	1.9	Е
20230626_2020	1.7	ESE
20230626_2030	1.9	E
20230626_2040	1.7	E
20230626_2050	1.7	E
20230626_2100	1.4	E
20230626_2110	1.7	E
20230626_2120	1.7	ESE
20230626_2130	1.4	ESE
20230626_2140	1.1	SE
20230626_2150	1.4	ESE
20230626_2200	1.4	SE
20230626 2210	1.1	ESE
20230626_2220	1.4	ESE
20230626_2230	1.4	E
20230626 2240 20230626_2250	0.8 1.4	ESE ESE
20220626_2220	1.4	ESE ESE
20230626_2300 20230626_2310		SSE
20230626_2320	0.8 0.8	55E E
20230626_2320	0.8	SSW
20230626_2330	0.8	SSE
20230626 2350	0.8	SSW
40430040_4330	U.J	30 VV

Date & Time	Wind Speed (m/s)	Wind Direction (From)
(YYYYMMBB HHMM)		
20230627_0000 20230627_0010	0	N N
20230627_0010	0	N N
20230627_0030	0	N N
20230627_0040	0	N
20230627_0050	0.3	SE
20230627_0100	0	N
20230627_0110	0.3	ESE
20230627_0120	0.3	ESE
20230627_0130	0.3	- N
20230627_0140 20230627_0150	0.3	N E
20230627_0130	0.3	ENE
20230627 0200	0.5	N
20230627 0220	0.6	SW
20230627 0230	0.8	S
20230627_0240	0.3	SSE
20230627_0250	0.8	SE
20230627 0300	1.1	SE
20230627_0310	0.3	ESE
20230627_0320	0	N
20230627 0330 20230627 0340	0	N N
20230627_0340	0.3	N N
20230627 0400	0.3	N N
20230627 0400	0.3	NNE
20230627 0420	0.8	ESE
20230627 0410 20230627 0420 20230627 0420 20230627 0430 20230627 0440	0.3	Е
20230627_0440	1.1	Е
20230627 0450	1.1	Е
20230627 0500 20230627_0510	0.3	SSW
20230627_0510	1.1	SSE
20230627_0520	1.7	ESE
20230627 0530	1.4	E
20230627 0530 20230627 0540 20230627 0550 20230627 0600	0.3	SSE S
20230627_0530	0.3 0.3	NNW
20230627_0610	0.3	ENE
20230627_0620	0.6	E
20230627 0630	1.4	ESE
20230627_0640	1.1	ESE
20230627_0650	0.8	ESE
20230627 0700	1.1	E
20230627_0710	1.1	E
20230627_0720	0.8	E
20230627 0730 20230627 0740	0.8	E ESE
20230627_0740	0.8	SE SE
20230627_0730	1.7	E
20230627 0800	2.2	ESE
20230627_0820	2.2	ESE
20230627_0830	1.7	ESE
20230627_0840	1.4	Е
20230627_0850	1.7	ESE
20230627_0900	1.4	SE
20230627_0910	1.7	ESE
20230627_0920	2.2	ESE
20230627_0930 20230627_0940	2.2 0.3	SE NNE
20230627_0940	0.5	SSW
20230627_0930	0.8	N N
20230627_1010	0.3	ENE
20230627_1020	0.8	WNW
20230627 1030	0.3	S
20230627 1040	0.6	WSW
20230627_1050	1.9	WSW
20230627_1100	1.7	NW
20230627 1110	1.7	NNE
20230627_1120	0.5 0.3	NNE
20230627_1130		NNE
20230627 1140 20230627 1150	0 0.3	N
20230027 1130	0.5	ESE

Date & Time		
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230627_1200	0.3	SSW
20230627_1210	0.6	ENE
20230627_1220	0.3	SSE
20230627_1230	0.6	WSW WNW
20230627_1240 20230627_1250	1.1 0.8	S
20230627_1230	0.3	NW
20230627_1310	1.1	ESE
20230627_1320	0.3	N
20230627_1330	1.1	NNE
20230627_1340	0.8	NE
20230627_1350	0.8	SSE
20230627 1400	0.3	SSE
20230627_1410	0.3	SE
20230627_1420	0.8	SE
20230627 1430 20230627 1440	1.1 1.7	S SW
20230627_1450	0.6	SSW
20230627 1500	0.3	E
20230627 1510	1.1	E
20230627_1510	0.6	ENE
20230627 1530	0.3	NNE
20230627_1540	0.3	NNE
20230627_1550	0	N
20230627 1600	0.3	SE
20230627_1610	0.8	ESE
20230627_1620	0.3	W
20230627 1630	0.3	NW
20230627_1640	0	N
20230627_1650 20230627_1700	0.3	SSE E
20230627 1700	1.1	ESE
20230627_1710	0.3	SSE
20230627_1720	0.3	-
20230627_1740	0.3	NE
20230627_1750	0.3	-
20230627 1800	0	N
20230627_1810	0	N
20230627_1820	0.3	SSE
20230627 1830	0.3	E
20230627_1840	0	N
20230627_1850 20230627_1900	0	N
20230627 1900 20230627_1910	0	N N
20230627_1910	0	N N
20230627_1920	0.3	ESE
20230627_1940	0.3	ESE
20230627_1950	0.3	E
20230627 2000	0.6	E
20230627_2010	1.1	ESE
20230627_2020	0.8	SE
20230627_2020 20230627_2030 20230627_2040	1.1	ESE
20230627_2040	1.7 2.2	ESE ESE
20230627_2050 20230627_2100	1.1	ESE
20230627_2050 20230627_2100 20230627_2110	0.3	ESE
20230627_2110	0.5	N N
20230627_2120 20230627_2130 20230627_2140	0.3	ESE
20230627_2140	0.6	S
20230627_2150 20230627_2200	0.3	S
20230627_2200	0	N
20230627 2210	0	N
20230627_2220 20230627_2230	0	N N
20230627_2230	0	N
20230627 2240	0	N
20230627_2250 20230627_2300	0	N
20230627_2300	0.3 1.1	ESE ESE
20230627 2150 20230627 2200 20230627 2210 20230627 2210 20230627 2210 20230627 2230 20230627 2250 20230627 2300 20230627 2310 20230627 230 20230627 230 20230627 230 20230627 2350 20230627 2350 20230627 2350	1.1	ESE
20230627_2320 20230627_2330	0.6	SE
20230627 2340	0.3	SSE
20230627_2350	0.8	SE

Date & Time	Wind Speed (m/s)	Wind Direction (From)
(YYYYMMBB HHMM)		
20230628_0000 20230628_0010	1.4	SE SE
20230628_0010	1.7 1.7	SE SE
20230628_0020	1.7	SE
20230628_0030	1.7 2.2 1.7	ESE
20230628_0040 20230628_0050	1.7	ESE ESE
20230628 0100	1.4	SSE
20230628 0110	1.4	SSE
20230628_0110 20230628_0120	1.7	SSE SE
20230628 0130	1.7	SE
20230628_0140 20230628_0150	1.4	ESE ESE
20230628_0150	1.9	ESE
20230628 0200	1.9	ESE ESE SSE
20230628_0210 20230628_0220	1.4 0.8	ESE
20230028_0220	1.1	SSE
20230628 0230	0.8	SE
20230628 0230 20230628 0240 20230628 0250	0.8	SSE
20230628_0300	1.4	SSE
20230628 0300 20230628 0310 20230628_0320	1.7	SSE
20230628_0320	1.1	SSE
20230628 0330	1.4	SSE
20230628_0340	1.1	SE
20230628 0350	1.1	SSE
20230628 0400	1.4	SE
20230628_0410	1.1	SE
20230628_0420 20230628_0430	1.1	SE S
20230628_0440	0.6 0.3	<u>S</u>
20230628_0450	0.3	SSE
20230628 0500	0.8	SSE
20230628_0510	1.1	SSE
20230628 0520	1.4	SSE
20230628 0530	0.3	S
20230628_0540	0.3	-
20230628_0550	0.3	SSW
20230628 0600	0.3	SW
20230628_0610	0.3	SE
20230628_0620 20230628_0630	0.3	- N
20230628_0640	0	N N
20230628_0650	0.3	WNW
20230628 0700	0.5	N
20230628_0710	0	N
20230628_0720	0.8	SSE
20230628 0730	0.6	SSE
20230628_0740	0.8	S
20230628_0750	0.8	SSE
20230628 0800	0.8	SSE
20230628_0810 20230628_0820	0.8 0.8	SSE S
20230628_0830	0.8	<u>S</u>
20230628_0840	0.3	WSW
20230628_0850	0.3	S
20230628_0900	1.4	SSW
20230628 0910	1.4	SW
20230628_0920	1.4	WSW
20230628_0930	2.2	SSW
20230628_0940	3.1	SSE
20230628_0950	2.5	S
20230628_1000	2.8	S
20230628 1010 20230628_1020	3.3	S S
20230628_1020	3.3	<u>S</u>
20230628_1030	3.3	S
20230628_1050	3.3	S
20230628_1100	4.2	SSE
20230628 1110	3.9	S
20230628 1120	2.8	S
20230628 1130	2.8	SSW
20230628 1140	3.3	SSW
20230628_1150	4.2	S

Date & Time	Wind Cond (m/s)	Wind Direction (Form)
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230628_1200 20230628_1210	4.2 3.3	S SSW
20230628_1210	3.3	SW
20230628 1230	3.3	S
20230628_1240	2.8	SSW
20230628_1250	3.9	S
20230628_1300	4.2	S
20230628_1310 20230628_1320	3.3 4.4	S S
20230628_1320	4.4	S
20230628_1340	4.2	SSW
20230628_1350	4.2	SSW
20230628 1400 20230628_1410	4.2 3.9	SSW S
20230628_1410	3.9	<u>S</u>
20230628 1430	2.8	S
20230628_1440	3.3	SSW
20230628_1450	3.3	SSW
20230628 1500	3.3	S
20230628_1510 20230628_1520	3.3 4.7	<u>S</u> S
20230628_1520	4.2	S
20230628_1540	3.9	S
20230628_1550	3.1	S
20230628 1600	3.6	S
20230628_1610 20230628_1620	3.9 3.9	S S
20230628_1630	3.3	SSW
20230628 1640	3.3	SSW
20230628_1650	3.3	SSW
20230628 1700	2.8	S
20230628_1710 20230628_1720	3.3 3.3	S SSW
20230628_1720	2.2	SSE
20230628_1740	2.8	SSE
20230628_1750	2.8	SE
20230628 1800 20230628_1810	2.2 2.2	SSE SSE
20230628_1820	2.5	SE SE
20230628_1830	1.7	SE
20230628_1840	1.1	ESE
20230628_1850	2.2	SE
20230628 1900 20230628 1910	1.7 1.7	SE
20230628_1910 20230628_1920	1.7 1.1	SE E
20230628 1930	1.1	Ë
20230628_1940	1.1	E
20230628_1950	1.1	ESE
20230628 2000	0.8 0.8	SE SE
20230628 2000 20230628 2010 20230628 2020 20230628 2020 20230628 2030 20230628 2040 20230628 2050 20230628 2100 20230628 2110	0.8	SE SE
20230628_2030	0.6	Е
20230628_2040	0.8	ESE
20230628_2050 20230628_2100	1.1	SE
20230628_2100 20230628_2110	1.7 1.4	ESE ESE
20230628 2120	1.4	SE SE
20230628 2110 20230628 2120 20230628 2130 20230628 2140 20230628 2150	1.4	ESE
20230628_2140	1.4	SE
20230628_2150 20230628_2200	1.4	SE SE
20230628_2200	1.4 1.4	SE SE
20230628 2220	1.4	SE SE
20230628_2230	1.4	SE
20230628 2240	0.8	SSE
20230628_2250	0.8	SE
20230628_2300 20230628_2310	1.1 1.7	ESE ESE
20230628_2320	1.7	SSE
20230628_2330	1.7	SSE
20230628 2340	1.4	SSE
20230628_2350	1.7	SSE

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230629 0000	1.7	SSE
20230629_0010	1.7	SSE
20230629 0020	1.1	SE
20230629_0030	1.1	SSE
20230629_0040	1.1	SE
20230629_0050	1.4	SE
20230629_0100	1.7	SE
20230629_0110	1.4	SSE
20230629_0120	1.1	S
20230629_0130	1.1	S
20230629_0140	1.1	S
20230629_0150 20230629_0200 20230629_0210	1.7 1.4	S
20230629 0200 20230629 0210	1.4	SSE S
20230629_0210	0.8	S
20230629 0230	1.9	S
20230629_0240	1.1	S
20230629 0250	1.4	S
20230629 0300	1.7	S
20230629 0310	0.3	-
20230629_0320	0	N
20230629 0330	0	N
20230629_0340	0	N
20230629_0350 20230629_0400	0.3	NE
20230629 0400	0.3	NNE
20230629 0400	0	N
20230629_0420	0	N
20230629 0430	0	N
20230629_0440 20230629_0450	0.3	N SW
20230629_0430	0.3	WSW
20230629 0500	0.3	N N
20230629_0520	0.3	- 1
20230629 0530	0.5	N
20230629_0540	0	Ň
20230629_0550	0	N
20230629 0600	0	N
20230629_0610	0	N
20230629_0620	0	N
20230629 0630	0	N
20230629_0640	0	N
20230629_0650	0	N
20230629 0700	0	N
20230629_0710	0	N
20230629_0720	0	N
20230629 0730 20230629 0740	0.3 0.8	ESE E
20230629_0740	1.1	ESE
20230629_0730	1.1	SE SE
20230629 0810	1.1	SE SE
20230629_0820	1.1	ESE
20230629_0830	0.8	ESE
20230629 0840	1.7	SSE
20230629_0850	1.4	SSW
20230629_0900	1.4	SW
20230629_0910	1.7	SW
20230629_0920	1.4	WSW
20230629_0930	1.7	SSW
20230629_0940	1.7	SSW
20230629_0950	2.2	SSW
20230629_1000	2.5	SSW
20230629 1010 20230629 1020	1.7	SSE S
20230629_1020	2.5 2.8	SW
20230629_1030	1.7	SW
20230629_1050	2.8	S
20230629_1030	3.3	S
20230629 1110	3.3	S
20230629 1120	3.3	S
20230629_1130	3.3	SSW
20230629 1140	2.8	SSW
20230629 1150	3.9	SW

Date & Time	Wind Cnood (m/s)	Wind Direction (From)
(YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230629_1200 20230629_1210	3.9 3.9	WSW SW
20230629 1220	3.3	SSW
20230629 1230	2.8	SSW
20230629_1240	3.3	SW
20230629_1250	4.4	SSW
20230629_1300 20230629_1310	3.1 3.9	SSW SSW
20230629_1320	2.8	S
20230629_1330	3.3	SW
20230629_1340	3.1	SW
20230629_1350 20230629_1400	3.3	SSW SSW
20230629 1410	3.3	S
20230629_1420	3.1	SSW
20230629 1430	2.8	S
20230629_1440	2.2 2.5	SSW
20230629_1450 20230629_1500	2.5 2.8	SW SW
20230629 1510	2.5	SW
20230629_1520	2.5	SW
20230629 1530	1.9	SW
20230629_1540	2.5	SW
20230629_1550 20230629_1600	1.7 2.5	SW SW
20230629 1610	2.2	SSW
20230629_1620	2.5	SSW
20230629 1630	2.2	SSW
20230629_1640	3.1	SW
20230629_1650 20230629_1700	3.3 3.3	SW SW
20230629 1710	3.3	SW
20230629_1720	2.8	WSW
20230629 1730	2.8	SW
20230629_1740	2.2	SW
20230629_1750 20230629_1800	2.5 2.5	SSW S
20230629_1810	2.8	SSE
20230629_1820	2.5	SSE
20230629 1830	1.9	SSE
20230629_1840 20230629_1850	2.5 2.2	SSE
20230629_1850 20230629_1900	1.1	SSE ESE
20230629 1910	1.7	ESE
20230629_1920	1.9	ESE
20230629 1930	1.4	ESE
20230629_1940 20230629_1950	1.1 1.7	ESE ESE
20230629_1930	2.5	E
20230629 2010	2.2	E
20230629_2020	2.5 2.5	E
20230629_2030	2.5	E
20230629_2040 20230629_2050	2.2	E E
20230629_2030	2.2 2.2	ESE
20230629 2110	2.5	ESE
20230629_2120	2.2 2.5	ESE
20230629_2130	2.5	ESE
20230629_2140	2.2 1.7	ESE E
20230629_2150 20230629_2200	1.1	E
20230629 2210	1.7	Е
20230629_2220 20230629_2230	1.4	ESE
20230629_2230	1./	ESE
20230629 2240	1.7 1.4	E ESE
20230629_2250 20230629_2300	1.4	ESE ESE
20230629 2310	1.7	ESE
20230629_2320 20230629_2330	1.1	ESE ESE
20230629_2330	1.1	ESE
20230629 2340 20230629_2350	0.8 0.8	ESE SE
20230027_2330	U.0	OL

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230630_0000	1.1	SE
20230630_0010	0.8	ESE
20230630_0020	1.1	ESE
20230630_0030	1.1	SE
20230630_0040	0.8	SE
20230630_0050	0.8	ESE
20230630_0100	0.8	ESE
20230630_0110	1.1	SE
20230630_0120	1.4	SE
20230630_0130	1.4	SE
20230630_0140	1.4	SE
20230630_0140	1.1	S
20230630 0200	1.1	SE
20230630_0210 20230630_0220	1.1	SE SSE
20230630_0220	0.8	
20230630_0240	0.8	SE S
20230630_0240	0.3	SE
20230630_0230	0.8	ESE
20230630 0300	0.8	SW
20230630_0310	0.8	WNW
20230630_0320	0.8	WSW
20230630_0340	0.3	SSW
20230630_0350	0.3	NE NE
20230630_0330	0.8	NE NE
20230630 0400 20230630 0410	0.3	E
20230630_0410	0.5	N
20230630 0430	0.3	SE
20230630 0440	0.5	N
20230630_0450	0.3	NNW
20230630 0500	0	N
20230630 0510	Ů,	N
20230630_0520	0.8	SSE
20230630 0530	0,3	ESE
20230630 0540	0	N
20230630_0550	0.3	S
20230630 0600	0	N
20230630 0610	0.3	N
20230630 0620	0.8	ENE
20230630 0630	0.3	ENE
20230630 0640	0	N
20230630 0650	0.3	-
20230630 0700	0.3	-
20230630 0710	1.1	Е
20230630 0720	1.7	Е
20230630 0730	1.4	Е
20230630_0740	1.4	ESE
20230630_0750	1.7	Е
20230630 0800	2.2	ESE
20230630_0810	2.5	Е
20230630_0820	1.7	Е
20230630_0830	1.7	ENE
20230630_0840	1.4	E
20230630_0850	1.7	ESE
20230630_0900	1.9	ENE
20230630_0910	1.7	ENE
20230630_0920	1.4	WSW
20230630_0930	1.1	NNW
20230630_0940	1.1	WSW
20230630_0950	1.4	SW
20230630_1000	1.4	SW
20230630 1010	0.3	NNW
20230630_1020	1.4	NNW
20230630_1030	0.3	APATE:
20230630 1040	0.3	NNE
20230630_1050	1.1	NE NNE
20230630_1100	0.8	NNE
20230630 1110	1.1	NNE
20230630_1120	0.8	NNE
20230630_1130	0.3	NW
20230630 1140	0.6	WNW
20230630 1150	1.1	SSE

Date & Time (YYYYMMBB HHMM)	Wind Speed (m/s)	Wind Direction (From)
20230630 1200	1.7	ENE
20230630_1200	1.4	E
20230630_1210 20230630_1220	1.1	ESE
20230630 1230	0.3	ESE
20230630_1240 20230630_1250	0.8	E
20230630 1250	0.6	NE
20230630 1300	1.1	NNE
20230630 1310	0.8	ENE
20230630_1310 20230630_1320	0.8	NNE
20230630 1330	0.3	N
20230630 1340 20230630 1350	1.1	E E
20230630_1350	1.7	E
20230630 1400	2.2 2.8 3.1	ESE
20230630_1410	2.8	E E
20230630 1410 20230630_1420	3.1	
20230630 1430 20230630 1440 20230630 1450	2.8 2.2 1.7	E
20230630_1440	2.2	ENE
20230630_1450	1.7	Е
20230630 1500 20230630_1510	2.2	E E
20230630_1510	2.5	E
20230630_1520	2.2	ESE
20230630 1530	2.2	E
20230630_1540	2.5	E
20230630_1550	2.8	E
20230630 1600	2.5	ESE
20230630_1610	2.5	ESE
20230630_1620	2.2	ESE
20230630 1630	2.5	E
20230630_1640	2.2	ESE
20230630_1650	1.9	ESE ESE
20230630 1700 20230630 1710	2.2	
20230630_1710	1.4	<u>Е</u> Е
20230630_1720	1.7	ESE
20230630 1740	2.2	ESE
20230630_1750	1.7	ESE
20230630_1730	1.4	ESE E
20230630_1810	1.4	E E
20230630_1820	1.9	ESE
20230630_1820	2.2	ESE
20230630 1840	1.7	ESE
20230630_1850	2.2	ESE
20230630 1900	1.9	E
20230630 1910	1.7	E
20230630 1920	1.4	E
20230630 1930	1.1	E
20230630 1940	0.8	ENE
20230630_1910	1.1	E
20230630 2000	1.4	E
20230630_2010	0.6	ENE
20230630_2020	0.3	NNE
20230630_2030	0.3	Е
20230630_2040	0.6	SE
20230630_2050	1.4	SE
20230630_2100	2.2	ESE
20230630_2110	1.7	ESE
20230630_2120	1.7	ESE
20230630_2130	1.4	SE
20230630_2140	0.8	SE
20230630_2150	0.3	SSW
20230630_2200	0.8	SSE
20230630 2210	0.3	SSE
20230630_2220	0.8	SSE
20230630_2230	0.8	ESE
20230630 2240	1.1	SE
20230630_2250	0.8	ESE
20230630_2300	1.1	SE
20230630 2310	1.7	ESE
20230630_2320	1.4	ESE
20230630_2330	1.9	SE
20230630 2340	2.2	SSE
20230630 2350	1.4	SE

## Appendix I Waste Flow Table

### **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
Total	69,193.45	0.00	0.00	67,337.00	0.00	0.00	0.00	0.00	0.00	22.69	0.00	72.80	1,760.96

#### 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

Inspection Date:	05 June 2023	Inspected By:	Jason Man			
Time:	14:00	Weather Condition:	Fine			
Participants:	Sylvia Ho (ER), Kristy Wong (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 <u>open burning</u> avoided?		$\boxtimes$		
B2	Are <b>plant and equipment</b> well maintained (i.e. without black smoke from powered plant)?		$\boxtimes$		
В3	Any remedial action undertaken?	$\boxtimes$			N/A
B4	Are the worksites wetted with water regularly?		$\boxtimes$		
B5	Are <b>NRMM labels</b> properly affixed on the PMEs?		$\boxtimes$		
B6	Observed dust source(s)				
		☐ Wind eros	sion		
		Vehicle/ E	quipment	Moveme	nts
		☑ Loading/ ເ	unloading	of materia	als
		Others:			
Air P	ollution Control (Construction Dust) Regulation				
Part I	Control Requirements for Notifiable Works				
Demo	olition of building				
B7	Is the area involved demolition activities <a href="mailto:sprayed">sprayed</a> <a href="mailto:with-water">with water</a> or a dust suppression chemical immediately prior to, during and immediately after the activities?	×			N/A
Cons	truction of the superstructure of a building				
B8	Is <u>scaffolding</u> erected around the perimeter of a building under construction?	$\boxtimes$			N/A

B9	Are effective <u>dust screens</u> , <u>sheeting</u> or <u>netting</u> 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?  Is the <u>skip</u> for materials transport enclosed by	×			N/A	
	impervious sheeting?	$\boxtimes$		Ш	N/A	
Part I	Il General Control Requirements					
Site b	oundary and entrance					
B11	Are <u>wheel washing facilities</u> with <u>high pressure</u> <u>water jet</u> provided at all site exits if practicable?		$\boxtimes$			
B12	Are the <u>areas of washing facilities</u> and the <u>road</u> <u>section between the washing facilities</u> and the <u>exit point</u> paved with concrete, bituminous materials or hardcores?		$\boxtimes$			
B13	Are the <u>hoarding</u> ≥ 2.4m tall provided at the site boundary near a road, street, service lane or other area accessible to the public?		$\boxtimes$			
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, hardcorres or metal plates, and kept clear of dusty materials?		$\boxtimes$			
B15	Are every <u>main haul road</u> sprayed with water or a dust suppression chemical?		$\boxtimes$			
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?		$\boxtimes$			
B17	Are appropriate <b>speed limit sign</b> displayed?		$\boxtimes$			
B18	Is <u>unpaved main haul road</u> wet by water spraying?					
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 on the top and 3 sides?	$\boxtimes$			N/O	
B20	Are the activities of loading, unloading, transfer, handing or storage of bulk cement or dry PFA carried out in a totally enclosed system or facility?	$\boxtimes$			N/A	
B21	Is any vent or exhaust fitted with an <u>effective fabric</u> <u>filter or equipment air pollution control system</u> ?	$\boxtimes$			N/A	
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 within 6 months after last construction activity on the construction site or part of the construction site where the exposed earth lies?		$\boxtimes$			

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 impervious sheeting or  (b) placed in an area sheltered on the top and the 3 sides or  (c) sprayed with water 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 excavation or unloading?		$\boxtimes$			
B24	Is the stockpile of dusty materials avoid to be extend beyond the <u>pedestrian barriers</u> , <u>fencing or traffic cones</u> ?		$\boxtimes$			
Load	ng, unloading or transfer of dusty materials					
B25	Are all dusty materials sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet?		$\boxtimes$			
B26	Are <u>all trucks loaded</u> to a level within the side and tail boards?		$\boxtimes$			
Use c	<u>of vehicles</u>					
B27	Are <u>every vehicle washed Immediately</u> to remove any dusty materials from its body and wheels before leaving a construction site?		$\boxtimes$			
B28	Are <u>loaded dump trucks</u> covered by impervious sheeting appropriately before leaving the site?		$\boxtimes$			
B29	Are site <u>vehicle movements</u> confined to designated roads?		$\boxtimes$			
Pneu	matic or power-driven drilling, cutting and polishing	1				
B30	Are <u>surfaces</u> where any <u>pneumatic or power-driven drilling, cutting, polishing or other 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> sheeting 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 <b>debris is dumped</b> into a debris chute?	$\boxtimes$			N/A	

Environmental Site Inspection Checklist (Rev. 3)

Exca	vation or earth moving		
B34	Are the working area of any excavation or earth moving operation <b>sprayed with water</b> or a dust suppression chemical immediately before, during and immediately after the operation?	$\boxtimes$	
Site o	<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 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 <u>well-maintained plant</u> 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> ?		$\boxtimes$		
C4	Are the <u>silencers</u> or <u>mufflers</u> properly fitted on construction equipment and maintained regularly?	$\boxtimes$			N/O
C5	Are <b>mobile</b> and/or <b>noisy plant</b> 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 <u>temporary hoarding</u> installed located on the site boundaries between noisy construction activities and NSRs?	$\boxtimes$			N/O
C8	Are <u>noise barriers</u> (typically density @14kg/m²) <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 <u>operation</u> of <u>construction plants</u> where practicable?		$\boxtimes$		
C10	Is the <u>hoarding</u> 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	<b>QPME</b> used with valid noise labels?				
C14	Major noise source(s)				
		⊠ Construct	ion activiti	es inside	of site
		Construct	ion activiti	es outsid	e of site
		Others:			

D	Water Quality	N/A or Not Observed	Yes	No	Remarks / Photo
Const	ruction 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?		$\boxtimes$		
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?		$\boxtimes$		
D2a	Have <u>dikes</u> or <u>embankments</u> for <u>flood protection</u> implemented around the boundaries of earthwork areas?		$\boxtimes$		
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?		$\boxtimes$		
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?		$\boxtimes$		
D4c	Are <u>exposed slope surfaces</u> covered by tarpaulin sheets?		$\boxtimes$		To be treated with shotcrete at part of slope surface.
D5a	Have the <u>overall slope</u> of the site should be kept a minimum?		$\boxtimes$		
D5b	Are <u>all trafficked areas</u> and <u>access roads</u> protected by coarse stone ballast?		$\boxtimes$		
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 50m³ on site covered with tarpaulin or similar fabric during rainstorms?		$\boxtimes$		
D9a	Are <u>manholes</u> 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		$\boxtimes$	
	sewer always prevented?			
D10a	Are particular attention paid to the control of <u>silty</u> <u>surface runoff</u> during <u>storm event</u> ?		$\boxtimes$	Refer to Reminder 1
	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. Silt removal facilities, channels and manholes should be maintained and the deposited silt and			
	grit should be removed regularly.			
	<ul> <li>ii. <u>Temporarily exposed slope surfaces</u> should be cover by tarpaulin.</li> </ul>			
D10b	iii. <u>Temporary access roads</u> should be protected by crushed stone or gravel.			Refer to Reminder 1
	<ul> <li>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.</li> </ul>			
	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)  i. Silt removal facilities, channels and			
D10c	manholes should be checked to ensure that they can function properly.  ii. Open stockpiles of construction materials (e.g. aggregates, sand and fill materials) on site should be covered with tarpaulin or similar fabric.  iii. All temporary covers to slopes and stockpiles should be secured.			Refer to Reminder 1
	Are the actions to be taken <u>during</u> or <u>after</u> <u>rainstorms</u> ? (Appendix A2 of ProPECC PN 1/94)			
D10d	<ol> <li>Silt removal facilities, channels and manholes should be checked and maintained to ensure satisfactory working conditions. Attention should be given to safety when carrying out this work.</li> </ol>			Refer to Reminder 1
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?		$\boxtimes$	
D11e	Is the section of construction road between the wheel washing bay and the public road paved with backfill?		$\boxtimes$	
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 <b>oil interceptors</b> 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 <b>bypass</b> 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?		$\boxtimes$		
D15	Is <u>Intercepting bund</u> or <u>barrier</u> 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 <u>sedimentation tanks</u> 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	s)			
D19a	Are portable chemical toilets and sewage holding tanks provided?		$\boxtimes$		
D19b	Is the <u>sewage generated from toilets</u> 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?		$\boxtimes$		
Accide	ental Spillage of Chemical (Service workshop and m	aintenance fac	ilities)		
D21a	Are the <u>service workshop</u> and <u>maintenance</u> <u>facilities</u> located within a bunded area, and sumps	$\boxtimes$			N/O
	and oil interceptors?				
D21b	and oil interceptors?  Are all <u>maintenance of equipment</u> involving activities with potential for leakage and spillage undertaken within the areas?	$\boxtimes$			N/O
D21b	Are all <u>maintenance of equipment</u> involving activities with potential for leakage and spillage				N/O N/O
D21c	Are all <u>maintenance of equipment</u> involving activities with potential for leakage and spillage undertaken within the areas?  Is <u>chemical leakage</u> or <u>spillages</u> contained and				
D21c	Are all <u>maintenance of equipment</u> involving activities with potential for leakage and spillage undertaken within the areas?  Is <u>chemical leakage</u> or <u>spillages</u> contained and cleaned up immediately?				
D21c	Are all maintenance of equipment involving activities with potential for leakage and spillage undertaken within the areas?  Is chemical leakage or spillages contained and cleaned up immediately?  See Water Drainage System  Is the temporary surface water drainage system				
D21c Surfac	Are all maintenance of equipment involving activities with potential for leakage and spillage undertaken within the areas?  Is chemical leakage or spillages contained and cleaned up immediately?  The water Drainage System  Is the temporary surface water drainage system provided to manage runoff?  Does the system consist of channel as constructed				
D21c Surfac D22a D22b	Are all maintenance of equipment involving activities with potential for leakage and spillage undertaken within the areas?  Is chemical leakage or spillages contained and cleaned up immediately?  See Water Drainage System  Is the temporary surface water drainage system provided to manage runoff?  Does the system consist of channel as constructed around the perimeter of the site area?  Does the system collect surface water from the areas of higher elevations to those of lower elevations		$\boxtimes$		
D21c Surfac D22a D22b D22c	Are all maintenance of equipment involving activities with potential for leakage and spillage undertaken within the areas?  Is chemical leakage or spillages contained and cleaned up immediately?  The Water Drainage System  Is the temporary surface water drainage system provided to manage runoff?  Does the system consist of channel as constructed around the perimeter of the site area?  Does the system collect surface water from the areas of higher elevations to those of lower elevations and ultimately to the discharge point?		×		

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 <a href="mailto:enclosed bins">enclosed bins</a> or compaction units separately from the construction and chemical wastes?		$\boxtimes$		
E2a	Is the general waste collected properly by using the waste separation facilities for paper, aluminium cans, plastic bottles etc.?		$\boxtimes$		
E2b	Does <u>accumulation</u> of <u>waste</u> 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?		$\boxtimes$		
C&D I	Materials				
E4a	Are there any <b>contract documents</b> provided to allow and promote the <b>use of recycled aggregates</b> where appropriate?		$\boxtimes$		
E4b	Are the <u>C&amp;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 <b>general fill</b> ?		$\boxtimes$		
E6b	Are the <u>steel reinforcement bars</u> 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?		$\boxtimes$		
Е7а	Are the <b>temporary stockpiles</b> maintained regularly?		$\boxtimes$		
E7b	Is the <b>excavated fill material</b> reused for backfilling and reinstatement?		$\boxtimes$		
E8a	Are the <u>excavated slope</u> , <u>stockpile material</u> and <u>bund walls</u> covered by tarpaulin?		$\boxtimes$		
E8b	Are covering trucks or transporting wastes in enclosed containers when <b>transportation of waste</b> ?		$\boxtimes$		
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 <u>nomination</u> of <u>approved personnel</u> to be responsible for good site practices and making arrangements for collection of all wastes generated on-site and effective disposal implemented?		$\boxtimes$		

E11	proper waste ma	of <u>site personnel</u> for cleanliness, anagement procedures including andling, and waste reduction, reuse cept implemented?				
E12		r cleaning and maintenance drainage systems, sumps, oil		$\boxtimes$		
E13a	Are <u>wood</u> , <u>steel</u> a use and/or recyclin	and other metals separated for re-		$\boxtimes$		
E13b	,	materials appear contaminated?			$\boxtimes$	
E13c	If suspected conta followed?	aminated, appropriate procedures	$\boxtimes$			N/A
E14		C&D materials avoided onto any e.g. agricultural lands etc.?		$\boxtimes$		
E15	Are the <b>public fill stored</b> in differen	and <u>C&amp;D waste segregated</u> and it containers or skips to enhance g of materials and their proper		$\boxtimes$		
Chemi	ical Waste / Waste	<u>Oil</u>				
E16	Are <u>chemicals</u> ar properly?	nd <u>waste oil</u> recycled or disposed		$\boxtimes$		Refer to Observation 1
Chemi	ical Packaging					
E17a		ers a capacity of <450 L unless the peen approved by EPD?	$\boxtimes$			
E17b	maintained in a go	rs (holding, resistant to corrosion, nod condition, and securely closed) of chemical wastes?	$\boxtimes$			
Chemi	ical Labelling			L		
E18		or waste oil <b>stored</b> and <b>labelled</b> in <b>lese</b> properly in designated area?  Dimensions of Label  No less than 90 x 100mm  No less than 120 x 150mm  No less than 180 x 200mm				
Chemi	ical Waste / Fuel S	torage Area				
E19a	Are the <u>storage</u> separated (if need	area are clearly labelled and ed)?	$\boxtimes$			N/O
E19b	fence of ≥2m tall capacity (>110%	area enclosed 3 sides by walls/ and bounded with adequate bund of largest container) or do the v storage of 20% of total volume	×			N/O
E19c	and be covered reduce heat from s	-	$\boxtimes$			N/O
E19d		ks and chemical storage areas s and sited on sealed areas?	$\boxtimes$			N/O
E20	collectors and di	te collected by <u>licensed waste</u> sposed of at <u>licensed facility</u> eg. Treatment Centre?		$\boxtimes$		

Recor	<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?	$\boxtimes$	
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 <b>prominent safety warning signs</b> erected on- site to alert all personnel and visitors of LFG hazards during excavation works.?		$\boxtimes$		
F3	Is <u>no smoking</u> or <u>burning</u> permitted on-site?	$\boxtimes$			N/O
F4	Are prominent 'No smoking' and 'No Naked Flames' signs erected on-site?	$\boxtimes$			N/O
F5	Is no worker allowed to <b>work alone</b> 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 onsite?	$\boxtimes$			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 <b>piping assembly or conduit construction</b> , are all valves and seals closed immediately after installation?				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 <u>operation of installed pipeline</u> ?	$\boxtimes$			N/A
F11d	Is <u>forced ventilation</u> implemented for <u>works</u> <u>inside trenches deeper than 1m</u> ?	$\boxtimes$			N/A
F12	Is frequency and location of LFG monitoring within excavation area determined prior to commencement of works?		$\boxtimes$		

	*LFG monitoring in excavations should be conducted at < 10mm from exposed ground surface.		
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?		
F14	Are <u>LFG monitoring</u> conducted periodically when any cracks on ground level encountered on-site?  *Appropriate action should be taken in accordance		
F15a	with the action plan in Table 7.6 of EIA Report.  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?	$\boxtimes$	
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?	$\boxtimes$	
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:  •CH4: 0-100% and LEL: 0-100%/v  •CO <sub>2</sub> : 0-100%  •O <sub>2</sub> : 0-21%		
F17a	Periodically during groundwork construction, Is the works area monitored for CH <sub>4</sub> CO <sub>2</sub> and O <sub>2</sub> 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.	$\boxtimes$	
F17b	Is routine monitoring carried out in all excavations, manholes, created by temporary storage of building materials on-site?	$\boxtimes$	
F17c	Are all measurements in excavations made with monitoring tube located < 10mm from exposed ground surface?	$\boxtimes$	
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	$\boxtimes$	

	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		$\boxtimes$		
	Periodic all whilst excavation remains open.				
F20	For excavations < 300mm, are monitoring omitted at the discretion of Safety Officer or appropriately qualified person?		$\boxtimes$		
G	Landscape and Visual Impacts	N/A or Not Observed	Yes	No	Remarks / Photo
G1	Is the work site <b>confined within</b> site boundaries?		$\boxtimes$		
G2	Is <u>damage</u> to surrounding areas <u>avoided</u> ?		$\boxtimes$		
G3	Are the protective fencing erected along or beyond the perimeter of the <u>tree protection zone</u> of each individual tree?		$\boxtimes$		
Advan	ced screening tree planting				
G4a	Is early planting using fast growing plants and tall shrubs at <b>strategic locations</b> within site implemented?		$\boxtimes$		
G4b	Are the roadside planter and shrub planting implemented in front of <b>Cheung Sha Temple</b> ?		$\boxtimes$		
Bound	lary Green Belt planting				
G5	Are the <u>fast growing</u> and <u>fire-resistant plant</u> <u>species</u> planted around the site perimeter?		$\boxtimes$		
Tempo	orary landscape treatment as green surface cover				
G6	Are grass hydroseeding or synthetic covering material of green colour used as a <u>temporary slope</u> <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?		$\boxtimes$		
	ecological significant preserved whenever		$\boxtimes$		
Н	ecological significant preserved whenever	N/A or Not Observed	Yes	No	Remarks / Photo
	ecological significant preserved whenever possible?			No □	Remarks / Photo
Н	ecological significant preserved whenever possible?  Ecology  Is transplantation of the important plant species implemented? Is post-transplantation maintained		Yes	No	Remarks / Photo
H H1	ecological significant preserved whenever possible?  Ecology  Is transplantation of the important plant species implemented? Is post-transplantation maintained		Yes	No No	Remarks / Photo  Remarks / Photo
<b>H</b>	ecological significant preserved whenever possible?  Ecology  Is transplantation of the important plant species implemented? Is post-transplantation maintained and monitored regularly?	Observed  N/A or Not	Yes		

Environmental Site Inspection Checklist (Rev. 3)

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. The unrooting trees at Portion A was removed by contractor.
- 2. The sand and soil near the channel at Portion E3-1 was removed by contractor.
- 3. The entrance / exit at Portion B2 was cleaned by contractor.

#### Observation(s):

1. The accumulate water is found the drip tray at Portion D.

#### Reminder(s):

1. The contractor has been reminded that the particular attention should be paid to the control of silty surface runoff during storm event in accordance with Appendix A2 of ProPECC PN 1/94.

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

1. The contractor has been recommended that the accumulate water in drip tray should be cleared regularly and after rainy to minimize the potential chemical waste.

Environmental Site Inspection Checklist (Rev. 3)

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:			M	Ho
Name:	Jason Man		Kristy Wong	Sylvia Ho
Date:	5 Jun 2023	1	5 Jun 2023	5 Jun 2023

#### PART I Follow-up status of the previous site inspection

#### Observation and Recommendation

#### 03 April 2023



The exposed slope surface near the stream has been covered with impervious sheets as a temporary mitigation measure. Shotcrete will be applied to the exposed surface by the end of April to prevent surface runoff into channel in long term.

#### Follow-up status



The slope protection in Portion E3-1 is conducting in progress by contractor to minimize the high suspended solid surface runoff to treat by silt removal facilities & avoid it directly discharged to channel.

#### 2 May 2023





Water in the drip tray shall be cleared off at Portion A.

Waiting for Contractor's Input

#### **Observation and Recommendation**

#### Follow-up status

#### 8 May 2023



Waiting for Contractor's Input

The Contractor has been reminded to cover the waste skip with impervious sheets during rainfall, to avoid accumulation of waste and to implement waste sorting.



#### 22 May 2023

#### Observation:

The unrooting trees at Portion A was not covered by impervious sheeting and or placed in an area sheltered on the top and the 3 sides within a day of demolition.



The unrooting trees at Portion A was removed by contractor.

# Observation and Recommendation Follow-up status



# 22 May 2023

# Observation:

The sand and soil near the channel at Portion E3-1 were found. The contractor was recommended to avoid the untreated surface runoff contaminated with related materials discharged to channel directly. All construction runoffs should be collected to silt removal facilities for treatment.



The sand and soil near the channel at Portion E3-1 was removed by

# Portion B2





Portion A



29 May 2023

# Observation:

Portion of road leading to Portion A and Portion B2 shall be kept clear of dusty and muddy materials.

# Follow-up status

# Portion B2



The entrance / exit at Portion B2 was cleaned by contractor.

# Portion A

Waiting for Contractor's Input





Waiting for Contractor's Input

29 May 2023

# Observation:

Slope protection work in Portion A shall be maintained properly to minimize dust dispersion and surface runoff.



Waiting for Contractor's Input

# 29 May 2023

## Observation:

The accumulated uprooting trees is found behind the wetsep in Portion  ${\sf B2}.$ 

# PART II Observation and recommendation identified during the environmental site inspection

# SDG 100 PORT INC.



# Observation:

 The accumulate water is found the drip tray at Portion D. The contractor has been recommended that the accumulate water in drip tray should be cleared regularly and after rainy to minimize the potential chemical waste.

# Follow-up status

# Reminder: 2. The contractor has been reminded that the particular attention should be pai to the control of silty surface runoff during storm event in accordance with Appendix A2 of ProPECC PN 1/94.

# PART III Temporary Drainage System Photo Record during the environmental site inspection





Photo 3 Portion D

Photo 4 Portion B1 Sediment basin & Cut-off drain





Photo 5 Portion B1 Drainage system with silt fence at stockpile area

Photo 6 Portion B1 Existing channel





Photo 7 Portion B1 Existing channel

Photo 8 Portion B1 Existing channel



Photo 10 Portion E3 Silt removal facilities



Photo 11 Portion E3 Sediment Basin



Photo 12 Portion A Earth bunds with Silt fence





Inspection Date:	12 June 2023	Inspected By:	Andy Ng					
Time:	14:00	Weather Condition:	Sunny					
Participants:	Sylvia Ho (ER), V.C. Lau (Contract	/Ivia Ho (ER), V.C. Lau (Contractor), Kristy Wong (Contractor) & Andy Ng (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.		$\boxtimes$		
А3	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 <b>open burning</b> avoided?		$\boxtimes$		
B2	Are <u>plant and equipment</u> well maintained (i.e. without black smoke from powered plant)?		$\boxtimes$		
В3	Any remedial action undertaken?	$\boxtimes$			N/A
B4	Are the worksites wetted with water regularly?			$\boxtimes$	Refer to Observation 2
B5	Are <b>NRMM labels</b> properly affixed on the PMEs?		$\boxtimes$		
B6	Observed dust source(s)				
		☐ Wind eros	sion		
		Vehicle/ E	quipment	Moveme	nts
		Loading/	unloading	of materia	als
		Others:			_
Air Po	ollution Control (Construction Dust) Regulation				
Part I	Control Requirements for Notifiable Works				
Demo	olition of building				
B7	Is the area involved demolition activities <a href="mailto:sprayed">sprayed</a> <a href="mailto:with-water">with water</a> or a dust suppression chemical immediately prior to, during and immediately after the activities?	×			N/A
Cons	truction of the superstructure of a building				
B8	Is <u>scaffolding</u> erected around the perimeter of a building under construction?	$\boxtimes$			N/A

В9	Are effective <u>dust screens</u> , <u>sheeting</u> or <u>netting</u> 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?	$\boxtimes$			N/A
B10	Is the <u>skip</u> for materials transport enclosed by <u>impervious sheeting</u> ?	$\boxtimes$			N/A
Part I	Il General Control Requirements				
Site b	oundary and entrance				
B11	Are wheel washing facilities with high pressure				
	water jet provided at all site exits if practicable?	Ш	$\boxtimes$	Ш	
B12	Are the <u>areas of washing facilities</u> and the <u>road</u>				
D12	section between the washing facilities and the			_	
	exit point paved with concrete, bituminous materials		$\boxtimes$		
	or hardcores?				
B13	Are the <b>hoarding</b> ≥ 2.4m tall provided at the site				
ыз	boundary near a road, street, service lane or other		$\boxtimes$		
	-			ш	
	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,		$\boxtimes$		
	hardcorres or metal plates, and kept clear of dusty				
	materials?				
B15	Are every main haul road sprayed with water or a				
	dust suppression chemical?		$\boxtimes$		
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 <b>speed limit sign</b> displayed?		$\boxtimes$		
D40					
B18	Is <u>unpaved main haul road</u> wet by water spraying?				
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				NIO
	impervious sheeting or placed in an area sheltered	$\boxtimes$		Ш	N/O
	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				
	filter or equipment air pollution control system?	$\boxtimes$		Ш	N/A
<b></b>					
	sed earth		I		
B22	Is the exposed earth properly treated by				
	compaction, turfing, hydroseeding, vegetation				
	planting or sealing with latex, vinyl, bitumen,		[ <del></del> ]		
	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 IV Control Requirements for Individual Activities								
Stock	piling of dusty materials							
B23	Are the stockpiling of dusty materials  (a) covered entirely by impervious sheeting or  (b) placed in an area sheltered on the top and the 3 sides or  (c) sprayed with water 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 excavation or unloading?							
B24	Is the stockpile of dusty materials avoid to be extend beyond the <u>pedestrian barriers, fencing or traffic cones</u> ?		$\boxtimes$					
Loadi	ng, unloading or transfer of dusty materials							
B25	Are all dusty materials sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet?		$\boxtimes$					
B26	Are <u>all trucks loaded</u> to a level within the side and tail boards?		$\boxtimes$					
Use c	Use 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?		$\boxtimes$					
B28	Are <u>loaded dump trucks</u> covered by impervious sheeting appropriately before leaving the site?		$\boxtimes$					
B29	Are site <u>vehicle movements</u> confined to designated roads?		$\boxtimes$					
Pneu	matic or power-driven drilling, cutting and polishing	1						
B30	Are <u>surfaces</u> where any <u>pneumatic or power-driven drilling</u> , <u>cutting</u> , <u>polishing or other 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> sheeting 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</u> is <u>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 <b>sprayed with water</b> or a dust suppression chemical immediately before, during and immediately after the operation?	$\boxtimes$	
Site o	<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 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 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 <u>well-maintained plant</u> 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 <b>NSRs</b> ?		$\boxtimes$		
C4	Are the <u>silencers</u> or <u>mufflers</u> properly fitted on construction equipment and maintained regularly?	$\boxtimes$			N/O
C5	Are <u>mobile</u> and/or <u>noisy plant</u> 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 <u>temporary hoarding</u> installed located on the site boundaries between noisy construction activities and NSRs?	$\boxtimes$			N/O
C8	Are <u>noise barriers</u> (typically density @14kg/m²) <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 <u>operation</u> of <u>construction plants</u> where practicable?		$\boxtimes$		
C10	Is the <b>hoarding</b> 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 <b>compressor</b> operated with doors closed?		$\boxtimes$		
C13	<b>QPME</b> used with valid noise labels?				
C14	Major noise source(s)				
		⊠ Construct	ion activiti	es inside	of site
		Construction activities outside of site			
		Others:			

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-off drains</u> constructed to direct off-site water around the site with internal drainage works and erosion and sedimentation control facilities implemented?		$\boxtimes$				
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?		$\boxtimes$				
D2a	Have <u>dikes</u> or <u>embankments</u> for <u>flood protection</u> implemented around the boundaries of earthwork areas?		$\boxtimes$				
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?		$\boxtimes$				
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?		$\boxtimes$				
D4c	Are <u>exposed slope surfaces</u> covered by tarpaulin sheets?		$\boxtimes$		To be treated with shotcrete at part of slope surface.		
D5a	Have the <u>overall slope</u> of the site should be kept a minimum?		$\boxtimes$				
D5b	Are <u>all trafficked areas</u> and <u>access roads</u> protected by coarse stone ballast?		$\boxtimes$				
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 50m³ on site covered with tarpaulin or similar fabric during rainstorms?		$\boxtimes$				
D9a	Are <u>manholes</u> 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?		$\boxtimes$		
D40	Are particular attention paid to the control of <b>silty</b>			$\square$	Refer to
D10a	surface runoff during storm event?		Ш	$\boxtimes$	Reminder 1
	Are the precautions to be taken at <b>any time</b> of year when rainstorms are likely? (Appendix A2 of ProPECC PN 1/94)				
	<ul> <li>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.</li> </ul>				
	<ul> <li>ii. <u>Temporarily exposed slope surfaces</u> should be cover by tarpaulin.</li> </ul>	_		_	Refer to
D10b	iii. <u>Temporary access roads</u> should be protected by crushed stone or gravel.				Reminder 1
	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				
D10c	<ul> <li>i. Silt removal facilities, channels and manholes should be checked to ensure that they can function properly.</li> <li>ii. Open stockpiles of construction materials (e.g. aggregates, sand and fill materials) on site should be covered with tarpaulin or similar fabric.</li> <li>iii. All temporary covers to slopes and stockpiles should be secured.</li> </ul>			$\boxtimes$	Refer to Reminder 1
	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. Silt removal facilities, channels and manholes should be checked and maintained to ensure satisfactory working conditions. Attention should be given to safety when carrying out this work.				Refer to Reminder 1
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?		$\boxtimes$		
D11e	Is the section of construction road between the wheel washing bay and the public road paved with backfill?		$\boxtimes$		
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 <b>bypass</b> 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?		$\boxtimes$		
D15	Is <u>Intercepting bund</u> or <u>barrier</u> 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 <u>sedimentation tanks</u> provided to treat the large amount of sediment-laden wastewater generated from wheel washing, site runoff and construction works?				
D18	Is there any <b>sediment plume</b> 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	П	$\boxtimes$	П	
	tanks provided?				
D19b	Is the <u>sewage generated from toilets</u> collected by licensed contractor and responsible for disposal and maintenance?		$\boxtimes$		
D20	Are the <b>notices</b> posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment?		$\boxtimes$		
Accide	ental Spillage of Chemical (Service workshop and m	aintenance fac	ilities)		
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 <b>maintenance of equipment</b> 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 temporary surface water drainage system provided to manage runoff?		$\boxtimes$		
D22b	Does the system consist of <b>channel</b> as constructed around the perimeter of the site area?		$\boxtimes$		
D22c	Does the system collect surface water from the <u>areas</u> <u>of higher elevations</u> 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?		$\boxtimes$		
D23b	Is the regular <b>cleaning</b> carried out to prevent blockage of the passage of waste flow in silt fence?		$\boxtimes$		

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 enclosed bins or compaction units separately from the construction and chemical wastes?		$\boxtimes$					
E2a	Is the general waste collected properly by using the waste separation facilities 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?		$\boxtimes$					
C&D N	Materials							
E4a	Are there any <b>contract documents</b> provided to allow and promote the <b>use of recycled aggregates</b> where appropriate?		$\boxtimes$					
E4b	Are the <u>C&amp;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 <b>general fill</b> ?		$\boxtimes$					
E6b	Are the <u>steel reinforcement bars</u> 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 <b>temporary stockpiles</b> maintained regularly?		$\boxtimes$					
E7b	Is the <u>excavated fill material</u> reused for backfilling and reinstatement?		$\boxtimes$					
E8a	Are the <u>excavated slope</u> , <u>stockpile material</u> and <u>bund walls</u> covered by tarpaulin?		$\boxtimes$					
E8b	Are covering trucks or transporting wastes in enclosed containers when <b>transportation of waste</b> ?		$\boxtimes$					
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 <u>nomination</u> of <u>approved personnel</u> to be responsible for good site practices and making arrangements for collection of all wastes generated on-site and effective disposal implemented?		$\boxtimes$					

E11		of <u>site personnel</u> for cleanliness,				
		anagement procedures including		$\boxtimes$		
		andling, and waste reduction, reuse			_	
E12		cept implemented? r cleaning and maintenance				
ETZ		r cleaning and maintenance drainage systems, sumps, oil		$\boxtimes$		
	interceptors?					
E13a	Are wood, steel a use and/or recyclin	and other metals separated for re-		$\boxtimes$		
E13b	•	materials appear contaminated?				
					$\boxtimes$	
E13c	If suspected conta followed?	aminated, appropriate procedures	$\boxtimes$			N/A
E14	Is the disposal of	<u>C&amp;D materials</u> avoided onto any		$\boxtimes$		
	sensitive locations	e.g. agricultural lands etc.?				
E15		and C&D waste segregated and				
		t containers or skips to enhance		$\boxtimes$		
	disposal?	g of materials and their proper				
	uisposai :					
<u>Chemi</u>	cal Waste / Waste	<u>Oil</u>				
E16		nd waste oil recycled or disposed		$\boxtimes$		Refer to
	properly?					Observation 1
Chemi	cal Packaging					
E17a		ers a capacity of <450 L unless the	$\boxtimes$			
		een approved by EPD?				
E17b		rs (holding, resistant to corrosion,				
	maintained in a good condition, and securely closed) used for <b>storage of chemical wastes</b> ?		$\boxtimes$			
		or chemical wastes?				
Chemi	cal Labelling					
E18	Is chemical waste	or waste oil <b>stored</b> and <b>labelled</b> in				
	<b>English and Chin</b>	ese properly in designated area?				
	Capacity of	Dimensions of Label				
	Container					
	< 50L	No less than 90 x 100mm		$\boxtimes$	Ш	
	50 to 450L	No less than 120 x 150mm				
	> 450L	No less than 180 x 200mm				
Chemi	cal Waste / Fuel S	torage Area				
E19a	Are the <b>storage</b>	area are clearly labelled and				
	separated (if need		$\boxtimes$			N/O
E19b		area enclosed 3 sides by walls/				
		and bounded with adequate bund				
	capacity ( <u>&gt;110%</u>	of largest container) or do the	$\boxtimes$			N/O
	storage area allow	storage of 20% of total volume				
	of waste?					
E19c		areas have adequate ventilation				
		to prevent rainfall entering and	$\boxtimes$		Ш	N/O
	reduce heat from s	~				
E19d	·	ks and chemical storage areas	$\boxtimes$			N/O
	provided with locks	s and sited on sealed areas?		ı —		
E00	•					
E20	Is chemical wast	e collected by <u>licensed waste</u>				
E20	Is chemical wast	re collected by <u>licensed waste</u> sposed of at <u>licensed facility</u> eg.		$\boxtimes$		

Recor	Records								
E21	Is a licensed waste hauler used for <u>waste</u>		$\boxtimes$						
	collection?		_	_					
E22	Are the <b>records of quantities of wastes</b> generated,		$\square$						
	recycled and disposed properly kept?			Ш					
E23	For the demolition material / waste, is the <b>number of</b>		$\boxtimes$						
	loads for each day recorded as appropriate?			ш					

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 <u>prominent safety warning signs</u> 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 'No smoking' and 'No Naked Flames' signs erected on-site?	$\boxtimes$			N/O		
F5	Is no worker allowed to <b>work alone</b> at any time in excavated trenches or confined areas on-site?		$\boxtimes$				
F6	Is adequate <b><u>fire fighting equipment</u></b> provided onsite?		$\boxtimes$				
F7	Are <b>construction equipment</b> 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 onsite?	$\boxtimes$			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 <b>piping assembly or conduit construction</b> , 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 <u>operation of installed pipeline</u> ?	$\boxtimes$			N/A		
F11d	Is <u>forced ventilation</u> implemented for <u>works</u> <u>inside trenches deeper than 1m</u> ?	$\boxtimes$			N/A		
F12	Is frequency and location of LFG monitoring within excavation area determined prior to commencement of works?		$\boxtimes$				

	*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?  *Appropriate action should be taken in accordance with the action plan in Table 7.6 of EIA Report.	$\boxtimes$	
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?	$\boxtimes$	
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?	$\boxtimes$	
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 <sub>4</sub> : 0-100% and LEL: 0-100%/v  •CO <sub>2</sub> : 0-100%  •O <sub>2</sub> : 0-21%		
F17a	Periodically during groundwork construction, Is the works area monitored for CH <sub>4</sub> CO <sub>2</sub> and O <sub>2</sub> 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?	$\boxtimes$	
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	$\boxtimes$	

week?

	<ul> <li>Periodically throughout the working day whilst workers are in excavation.</li> </ul>				
F19	For excavations 300mm to 1m, are measurements conducted?  Directly after excavation has been completed; and Periodic all whilst excavation remains open.				
F20	For excavations < 300mm, are monitoring omitted at the discretion of Safety Officer or appropriately qualified person?		$\boxtimes$		
G	Landscape and Visual Impacts	N/A or Not Observed	Yes	No	Remarks / Photo
G1	Is the work site <b>confined within</b> site boundaries?		$\boxtimes$		
G2	Is <u>damage</u> to surrounding areas <u>avoided</u> ?		$\boxtimes$		
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?		$\boxtimes$		
G4b	Are the roadside planter and shrub planting implemented in front of <b>Cheung Sha Temple</b> ?		$\boxtimes$		
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 <u>temporary slope</u> <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?				
I	Environmental Complaint	N/A or Not Observed	Yes	No	Remarks / Photo
l1	Environmental Complaint received during this			$\boxtimes$	

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?		$\boxtimes$		

Report No. <u>0054-20230612</u>

# Follow up action for previous Site Inspection:

- 1. The unrooting trees at Portion A was removed by contractor.
- 2. The sand and soil near the channel at Portion E3-1 was removed by contractor.
- 3. The entrance / exit at Portion B2 was cleaned by contractor.

# Observation(s):

- 1. The stagnant water and silt in the drip trays shall be clear off in Portion B2 and SBA.
- 2. Watering shall be scheduled in Portion A under hot weather.

# Reminder(s):

1. The Contractor has been reminded to ensure channel and silt removal facilities shall be functioning properly for the upcoming rainfall.

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

- 1. The Contractor has been reminded to clear drip trays.
- 2. The Contractor has been reminded to schedule watering in Portion A.
- 3. Silt removal facility and channel shall be maintained properly.

34	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:	1/4	ı	Zon	to.
Name:	Andy Ng	1	VCLAU	Sylvia Ho
Date:	12 Jun 2023	1	12 Jun 2023	12 Jun 2023

# PART I Follow-up status of the previous site inspection

# **Observation and Recommendation**

# 03 April 2023



The exposed slope surface near the stream has been covered with impervious sheets as a temporary mitigation measure. Shotcrete will be applied to the exposed surface by the end of April to prevent surface runoff into channel in long term.

# Follow-up status



The slope protection in Portion E3-1 is conducting in progress by contractor to minimize the high suspended solid surface runoff to treat by silt removal facilities & avoid it directly discharged to channel.

# 2 May 2023

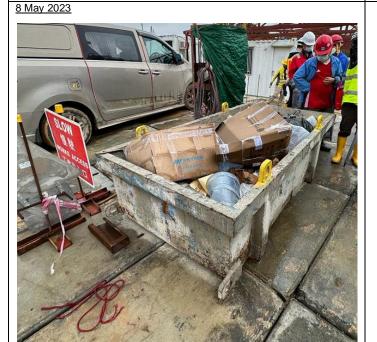




Water in the drip tray shall be cleared off at Portion A.

Waiting for Contractor's Input

### oboor varion and recommendation



The Contractor has been reminded to cover the waste skip with impervious sheets during rainfall, to avoid accumulation of waste and to implement waste sorting.

# Follow-up status

Waiting for Contractor's Input

# 22 May 2023



The unrooting trees at Portion A was not covered by impervious sheeting and or placed in an area sheltered on the top and the 3 sides within a day of demolition.



The unrooting trees at Portion A was removed by contractor.

# Observation and Recommendation Follow-up status

# 22 May 2023



# Observation:

The sand and soil near the channel at Portion E3-1 were found. The contractor was recommended to avoid the untreated surface runoff contaminated with related materials discharged to channel directly. All construction runoffs should be collected to silt removal facilities for treatment.



The sand and soil near the channel at Portion E3-1 was removed by contractor.

# **Observation and Recommendation**

29 May 2023

Portion B2





Portion A



Observation:

Portion of road leading to Portion A and Portion B2 shall be kept clear of dusty and muddy materials.

# Follow-up status

# Portion B2



The entrance / exit at Portion B2 was cleaned by contractor.

# Portion A

Waiting for Contractor's Input



# 29 May 2023



Waiting for Contractor's Input

# Observation:

Slope protection work in Portion A shall be maintained properly to minimize dust dispersion and surface runoff.

# 29 May 2023



Waiting for Contractor's Input

## Observation:

The accumulated uprooting trees was found behind the wetsep in Portion B2.

# 5 June 2023





Waiting for Contractor's Input

# Observation:

The accumulate water was found the drip tray at Portion D. The contractor has been recommended that the accumulate water in drip tray should be cleared regularly and after rainy to minimize the potential chemical waste.

# 5 June 2023



Reminder:

The contractor has been reminded that the particular attention should be paid to the control of silty surface runoff during storm event in accordance with Appendix A2 of ProPECC PN 1/94.

Waiting for Contractor's Input

# PART II Observation and recommendation identified during the environmental site inspection

# Observation and Recommendation SBA PD933003

Portion E3-1





 The stagnant water and silt in the drip trays shall be clear off in Portion B2 and SBA.



2. Watering shall be scheduled in Portion A under hot weather.

# Portion E3-1



<u>SBA</u>



Portion B2



3. The Contractor has been reminded to ensure channel and silt removal facilities shall be functioning properly for the upcoming rainfall.

# PART III Temporary Drainage System Photo Record during the environmental site inspection





Photo 3 Portion B1 Drainage system with silt fence at stockpile area

Photo 4 Portion D





Photo 5 Silt removal facility for Portion D

Photo 6 Portion D







Environmental Site Inspection Checklist (Rev. 3)

Inspection Date:	19 June 2023	Inspected By:	Daisy Au Yeung	
Time:	14:00	Weather Condition:	Sunny	
Participants:	Sylvia Ho (ER), V.C. Lau (Contractor), Kristy Wong (Contractor), Daisy Au Yeung (ET) and Echo Hung (IEC)			

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	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 <b>plant and equipment</b> well maintained (i.e. without black smoke from powered plant)?		$\boxtimes$				
В3	Any remedial action undertaken?	$\boxtimes$			N/A		
B4	Are the worksites wetted with water regularly?		$\boxtimes$				
B5	B5 Are <b>NRMM labels</b> properly affixed on the PMEs?		$\boxtimes$				
B6	Observed dust source(s)						
		☐ Wind eros	sion				
		Vehicle/ Equipment Movements					
		∑ Loading/	unloading	of materi	als		
		Others:					
Air P	ollution Control (Construction Dust) Regulation						
Part l	Part I Control Requirements for Notifiable Works						
Demolition of building							
B7	Is the area involved demolition activities <b>sprayed with water</b> 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	$\boxtimes$			N/A		

B9	Are effective <u>dust screens</u> , <u>sheeting</u> or <u>netting</u> 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?	$\boxtimes$			N/A
B10	Is the <u>skip</u> for materials transport enclosed by <u>impervious sheeting</u> ?	$\boxtimes$			N/A
Part I	Il General Control Requirements				
Site b	oundary and entrance				
B11	Are wheel washing facilities with high pressure				
	water jet provided at all site exits if practicable?	Ш	$\boxtimes$		
B12	Are the <u>areas of washing facilities</u> and the <u>road</u>				
J12	section between the washing facilities and the				
	exit point paved with concrete, bituminous materials		$\boxtimes$	Ш	
	or hardcores?				
B13	Are the <u>hoarding</u> $\geq$ 2.4m tall provided at the site				
<b>D</b> 10	boundary near a road, street, service lane or other		$\boxtimes$		
	area accessible to the public?			Ш	
_	·				
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,		$\boxtimes$	Ш	
	hardcorres 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		$\boxtimes$	Ш	
	clear of dusty materials?				
B17	Are appropriate speed limit sign displayed?		$\boxtimes$		
B18	Is <u>unpaved main haul road</u> wet by water spraying?				
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	$\boxtimes$		Ш	N/O
	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				
	filter or equipment air pollution control system?	$\boxtimes$		Ш	N/A
Expos	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		كا		
	construction site or part of the construction site				
	where the exposed earth lies?				
			<u> </u>		<u> </u>

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 impervious sheeting or  (b) placed in an area sheltered on the top and the 3 sides or  (c) sprayed with water 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 excavation or unloading?							
B24	Is the stockpile of dusty materials avoid to be extend beyond the <u>pedestrian barriers, fencing or traffic cones</u> ?		$\boxtimes$					
Loadi	ng, 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 <u>all trucks loaded</u> to a level within the side and tail boards?		$\boxtimes$					
Use o	Use 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?		$\boxtimes$					
B28	Are <u>loaded dump trucks</u> covered by impervious sheeting appropriately before leaving the site?		$\boxtimes$					
B29	Are site <u>vehicle movements</u> confined to designated roads?		$\boxtimes$					
Pneu	matic or power-driven drilling, cutting and polishing	l						
B30	Are <u>surfaces</u> where any <u>pneumatic or power-driven drilling</u> , <u>cutting</u> , <u>polishing or other 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> sheeting 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</u> is <u>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 <b>sprayed with water</b> or a dust suppression chemical immediately before, during and immediately after the operation?	$\boxtimes$	
Site o	<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 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 <u>well-maintained plant</u> 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 <b>NSRs</b> ?		$\boxtimes$				
C4	Are the <u>silencers</u> or <u>mufflers</u> properly fitted on construction equipment and maintained regularly?	$\boxtimes$			N/O		
C5	Are <u>mobile</u> and/or <u>noisy plant</u> 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 <u>temporary hoarding</u> installed located on the site boundaries between noisy construction activities and NSRs?	$\boxtimes$			N/O		
C8	Are <u>noise barriers</u> (typically density @14kg/m²) <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		
<b>С</b> 9	Is the sequencing <u>operation</u> of <u>construction plants</u> where practicable?		$\boxtimes$				
C10	Is the <b>hoarding</b> 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	QPME used with valid noise labels?		$\boxtimes$				
C14	Major noise source(s)						
		Construction activities inside of site					
		Construct	ion activiti	es outsid	e of site		
		Others: _			_		

D	Water Quality	N/A or Not Observed	Yes	No	Remarks / Photo						
Consti	onstruction Runoff										
D1a	At the start of site establishment, are perimeter <u>cut-</u>										
	off drains constructed to direct off-site water around		$\boxtimes$								
	the site with internal drainage works and erosion and sedimentation control facilities implemented?										
D1b	Are channels, earth bunds or sandbag barriers										
210	provided on site to properly direct stormwater to silt			$\boxtimes$	Refer to						
	removal facilities?	<u> </u>	_		Reminder 2						
D2a	Have <u>dikes</u> or <u>embankments</u> for <u>flood protection</u>										
	implemented around the boundaries of earthwork		$\boxtimes$								
	areas?										
D2b	Have temporary ditches provided to facilitate the										
	runoff discharge into an appropriate watercourse,		$\boxtimes$								
D2c	through a site/ sediment trap?  Are the <b>sediment/ silt traps</b> incorporated in the										
DZC	permanent drainage channels to enhance deposition		$\boxtimes$								
	rate?										
D3	Are the retention time for silt/s and traps of the silt										
	removal facilities be 5 minutes under maximum flow		$\boxtimes$								
	conditions?										
D4a	Are <u>surface excavation works</u> minimised during		$\boxtimes$								
5.4	rainy seasons (April to September), as possible?										
D4b	Are <u>all exposed earth areas</u> completed or vegetated										
	as soon as possible after earthworks completed, or alternatively, within 14 days of the cessation of		$\boxtimes$								
	earthworks where practicable?										
D4c	Are exposed slope surfaces covered by tarpaulin				To be treated with						
	sheets?		$\boxtimes$		shotcrete at part of						
					slope surface.						
D5a	Have the <b>overall slope</b> of the site should be kept a		$\boxtimes$								
	minimum?										
D5b	Are <u>all trafficked areas</u> and <u>access roads</u> protected		$\boxtimes$								
D6a	by coarse stone ballast?  Are all drainage facilities and erosion and										
Doa	sediment control structures inspected regularly?		$\boxtimes$								
D6b	Are all drainage facilities and erosion and										
202	sediment control structures maintained to ensure										
	proper and efficient operation at all times and		$\boxtimes$								
	particularly following rainstorms?										
D6c	Is the <u>deposited silt</u> and <u>grit</u> removed regularly and		$\boxtimes$								
D.7	disposed of by spreading evenly over stable?										
D7a	Have the <u>excavation</u> of <u>trenches</u> in wet periods be dug and backfilled in short sections?		$\boxtimes$								
	Is rainwater pumped out from trenches discharged										
D7b	into storm drains via silt system?		$\boxtimes$								
	Are open stockpiles of construction materials e.g.										
Do	aggregates and sand of more than 50m³ on site										
D8	covered with tarpaulin or similar fabric during		$\boxtimes$								
	rainstorms?										
	Are <u>manholes</u> adequately covered and temporarily										
D9a	sealed so as to prevent silt, construction materials or		$\boxtimes$								
	debris from getting into the drainage?										

D9b	Are the <u>discharges</u> of <u>surface run-off</u> into foul		$\boxtimes$		
	sewer always prevented?  Are particular attention paid to the control of silty				Refer to
D10a	surface runoff during storm event?		Ш	$\boxtimes$	Reminder 1
D10b	Are the precautions to be taken at <a href="mailto:any-time">any-time</a> of year when rainstorms are likely? (Appendix A2 of ProPECC PN 1/94)  i. <a href="mailto:Silt removal facilitie">Silt removal facilitie</a> s, <a href="mailto:channels">channels</a> and <a href="maintained">manholes</a> should be maintained and the <a href="mailto:deposited silt">deposited silt</a> and <a href="mailto:grit">grit</a> should be removed regularly.  ii. <a href="mailto:Temporarily exposed slope surfaces">Temporarily exposed slope surfaces</a> should be cover by tarpaulin.  iii. <a href="mailto:Temporary access roads">Temporary access roads</a> should be protected by crushed stone or gravel.			$\boxtimes$	Refer to Reminder 1
	<ul> <li>iv. Intercepting channels should be provided (e.g. along the crest/edge of excavation) to prevent storm runoff from washing across exposed soil surfaces.</li> <li>v. Trenches should be dug and backfilled in short sections. Measures should be taken to minimize the ingress of rainwater into trenches.</li> </ul>				
D10c	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 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.			$\boxtimes$	Refer to Reminder 1
D10d	Are the actions to be taken <u>during</u> or <u>after 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 be given to safety when carrying out this work.			$\boxtimes$	Refer to Reminder 1
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?		$\boxtimes$		
D11e	Is the section of construction road between the wheel washing bay and the public road paved with backfill?		$\boxtimes$		
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 <b>bypass</b> 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?		$\boxtimes$		
D15	Is <u>Intercepting bund</u> or <u>barrier</u> 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 <u>sedimentation tanks</u> provided to treat the large amount of sediment-laden wastewater generated from wheel washing, site runoff and construction works?		$\boxtimes$		
D18	Is there any <b>sediment plume</b> 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		$\boxtimes$		
	tanks provided? Is the sewage generated from toilets collected by				
D19b	licensed contractor and responsible for disposal and maintenance?		$\boxtimes$		
D20	Are the <b>notices</b> posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment?		$\boxtimes$		
Accide	ental Spillage of Chemical (Service workshop and m	aintenance fac	ilities)		
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 temporary surface water drainage system provided to manage runoff?		$\boxtimes$		
D22b	Does the system consist of <b>channel</b> 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 <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 <b>cleaning</b> carried out to prevent blockage of the passage of waste flow in silt fence?		$\boxtimes$		

E	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 <a href="mailto:enclosed bins">enclosed bins</a> or compaction units separately from the construction and chemical wastes?		$\boxtimes$							
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?		$\boxtimes$							
E2c	Is <u>waste disposed</u> 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?		$\boxtimes$							
C&D I	<u>Materials</u>									
E4a	Are there any <b>contract documents</b> provided to allow and promote the <b>use of recycled aggregates</b> where appropriate?		$\boxtimes$							
E4b	Are the <b>C&amp;D materials</b> 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 <b>general fill</b> ?		$\boxtimes$							
E6b	Are the <u>steel reinforcement bars</u> 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 <b>temporary stockpiles</b> maintained regularly?		$\boxtimes$							
E7b	Is the <b>excavated fill material</b> reused for backfilling and reinstatement?		$\boxtimes$							
E8a	Are the <u>excavated slope</u> , <u>stockpile material</u> and <u>bund walls</u> covered by tarpaulin?		$\boxtimes$							
E8b	Are covering trucks or transporting wastes in enclosed containers when <b>transportation of waste</b> ?		$\boxtimes$							
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 <u>nomination</u> of <u>approved personnel</u> to be responsible for good site practices and making arrangements for collection of all wastes generated on-site and effective disposal implemented?		$\boxtimes$							

E11	proper waste machemical waste ha	of <u>site personnel</u> for cleanliness, anagement procedures including andling, and waste reduction, reuse cept implemented?		$\boxtimes$		
E12	Are the regula	r cleaning and maintenance drainage systems, sumps, oil		$\boxtimes$		
E13a	•	and other metals separated for reng?		$\boxtimes$		
E13b	Do the excavated	materials appear contaminated?			$\boxtimes$	
E13c	If suspected conta followed?	minated, appropriate procedures	$\boxtimes$			N/A
E14	sensitive locations	<u>C&amp;D materials</u> avoided onto any e.g. agricultural lands etc.?		$\boxtimes$		
E15	stored in differen	and <b>C&amp;D waste segregated</b> and t containers or skips to enhance g of materials and their proper		$\boxtimes$		
Chemi	ical Waste / Waste	<u>Oil</u>				
E16	Are <u>chemicals</u> are properly?	nd waste oil recycled or disposed		$\boxtimes$		
Chemi	ical Packaging					
E17a	specification has b	ers a capacity of <450 L unless the peen approved by EPD?	$\boxtimes$			
E17b	maintained in a go	rs (holding, resistant to corrosion, and condition, and securely closed) of chemical wastes?	$\boxtimes$			
Chemi	ical Labelling			•		
E18		or waste oil stored and labelled in ese properly in designated area?  Dimensions of Label  No less than 90 x 100mm  No less than 120 x 150mm  No less than 180 x 200mm		$\boxtimes$		
Chemi	ical Waste / Fuel S	torage Area				
E19a	Are the storage separated (if need	area are clearly labelled and ed)?	$\boxtimes$			N/O
E19b	fence of ≥2m tall capacity (>110%	area enclosed 3 sides by walls/ and bounded with adequate bund of largest container) or do the storage of 20% of total volume	$\boxtimes$			N/O
E19c	Do the storage a	areas have adequate ventilation to prevent rainfall entering and sunlight?	$\boxtimes$			N/O
E19d		s and sited on sealed areas?	$\boxtimes$			N/O
E20		te collected by <u>licensed waste</u> sposed of at <u>licensed facility</u> eg. reatment Centre?		$\boxtimes$		

Recor	Records									
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?		$\boxtimes$							
E23	For the demolition material / waste, is the <u>number of</u> <u>loads</u> for each day recorded as appropriate?		$\boxtimes$							

		NI/A NI . (							
F	Landfill Gas (LFG)	N/A or Not Observed	Yes	No	Remarks / Photo				
Within	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 <b>prominent safety warning signs</b> 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 'No smoking' and 'No Naked Flames' signs erected on-site?	$\boxtimes$			N/O				
F5	Is no worker allowed to <b>work alone</b> at any time in excavated trenches or confined areas on-site?		$\boxtimes$						
F6	Is adequate <b><u>fire fighting equipment</u></b> provided onsite?		$\boxtimes$						
F7	Are <b>construction equipment</b> 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 onsite?	$\boxtimes$			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 <b>piping assembly or conduit construction</b> , 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 <u>operation of installed pipeline</u> ?	$\boxtimes$			N/A				
F11d	Is <u>forced ventilation</u> implemented for <u>works</u> <u>inside trenches deeper than 1m</u> ?	$\boxtimes$			N/A				
F12	Is frequency and location of LFG monitoring within excavation area determined prior to commencement of works?		$\boxtimes$						

	*LFG monitoring in excavations should be conducted at < 10mm from exposed ground surface.		
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		
F14	day when workers are in the excavation?  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 <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 <sub>4</sub> : 0-100% and LEL: 0-100%/v  •CO <sub>2</sub> : 0-100%  •O <sub>2</sub> : 0-21%		
F17a	Periodically during groundwork construction, Is the works area monitored for CH <sub>4</sub> CO <sub>2</sub> and O <sub>2</sub> 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?	$\boxtimes$	
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		

(Constru	ction F	Phase)
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	<ul> <li>Periodically throughout the working day whilst workers are in excavation.</li> </ul>				
F19	For excavations 300mm to 1m, are measurements conducted?  • Directly after excavation has been completed; and  • Periodic all whilst excavation remains open.				
F20	For excavations < 300mm, are monitoring omitted at the discretion of Safety Officer or appropriately qualified person?		$\boxtimes$		
G	Landscape and Visual Impacts	N/A or Not Observed	Yes	No	Remarks / Photo
G1	Is the work site <b>confined within</b> site boundaries?		$\boxtimes$		
G2	Is <u>damage</u> to surrounding areas <u>avoided</u> ?		$\boxtimes$		
G3	Are the protective fencing erected along or beyond the perimeter of the <u>tree protection zone</u> of each individual tree?				
Advan	nced screening tree planting				
G4a	Is early planting using fast growing plants and tall shrubs at <u>strategic locations</u> within site implemented?		$\boxtimes$		
G4b	Are the roadside planter and shrub planting implemented in front of <b>Cheung Sha Temple</b> ?		$\boxtimes$		
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?		$\boxtimes$		
	· · · · · · · · · · · · · · · · · · ·				
Tempo	orary landscape treatment as green surface cover				
<b>Tempo</b> G6			$\boxtimes$		
G6	orary landscape treatment as green surface cover  Are grass hydroseeding or synthetic covering material of green colour used as a temporary slope				
G6	Are grass hydroseeding or synthetic covering material of green colour used as a <u>temporary slope</u> <u>cover</u> ?		×		
G6 Existin	Are graservation  Are existing and affected tree which identified as ecological significant preserved.				
G6 Existin	Are graservation  Are existing and affected tree which identified as ecological significant preserved.	N/A or Not Observed		No	Remarks / Photo
G6 Existin	Are grass hydroseeding or synthetic covering material of green colour used as a temporary slope cover?  Ing tree preservation  Are existing and affected tree which identified as ecological significant preserved whenever possible?			No	Remarks / Photo
G6  Existin G7	Are grass hydroseeding or synthetic covering material of green colour used as a temporary slope cover?  Ing tree preservation  Are existing and affected tree which identified as ecological significant preserved whenever possible?  Ecology  Is transplantation of the important plant species implemented? Is post-transplantation maintained	Observed	Yes	No □	Remarks / Photo
G6  Existin G7	Are grass hydroseeding or synthetic covering material of green colour used as a temporary slope cover?  Ing tree preservation  Are existing and affected tree which identified as ecological significant preserved whenever possible?  Ecology  Is transplantation of the important plant species implemented? Is post-transplantation maintained		Yes	No No	Remarks / Photo  Remarks / Photo
G6  Existin G7  H H1	Are grass hydroseeding or synthetic covering material of green colour used as a temporary slope cover?  Ing tree preservation  Are existing and affected tree which identified as ecological significant preserved whenever possible?  Ecology  Is transplantation of the important plant species implemented? Is post-transplantation maintained and monitored regularly?	Observed  N/A or Not	Yes		

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. The unrooting trees at Portion A was removed by contractor.
- 2. The sand and soil near the channel at Portion E3-1 was removed by contractor.
- 3. The entrance / exit at Portion B2 was cleaned by contractor.

## Observation(s):

Nill

#### Reminder(s):

- 1. The Contractor has been reminded to ensure silt removal facilities shall be functioning properly for the upcoming rainfall.
- 2. The bunding along the slope edge shall be properly maintained to prevent surface runoff during heavy rainfall at Portion A.

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

- 1. Silt removal facility shall be functioning properly to ensure sufficient treatment for all wastewater before discharging to comply with WPCO.
- 2. Earth bund in Portion A shall be properly maintained.

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		Lalw.	M	40.
Name:	Daisy Au Yeung	Echo Hung	Kristy wong.	Sylvia Ho
Date:	19 Jun 2023	19 Jun 2023	19 Jun 2023	19 Jun 2023

#### PART I Follow-up status of the previous site inspection

## **Observation and Recommendation**

## 03 April 2023



The exposed slope surface near the stream has been covered with impervious sheets as a temporary mitigation measure. Shotcrete will be applied to the exposed surface by the end of April to prevent surface runoff into channel in long term.

## Follow-up status



The slope protection in Portion E3-1 is conducting in progress by contractor to minimize the high suspended solid surface runoff to treat by silt removal facilities & avoid it directly discharged to channel.

#### 2 May 2023





Water in the drip tray shall be cleared off at Portion A.

# Observation and Recommendation

## 8 May 2023



The Contractor has been reminded to cover the waste skip with impervious sheets during rainfall, to avoid accumulation of waste and to implement waste sorting.

## Follow-up status



Waste Skip was removed in SBA.

## Observation and Recommendation Follow-up status

## 22 May 2023



## Observation:

The sand and soil near the channel at Portion E3-1 were found. The contractor was recommended to avoid the untreated surface runoff contaminated with related materials discharged to channel directly. All construction runoffs should be collected to silt removal facilities for treatment.



The sand and soil near the channel at Portion E3-1 was removed by contractor.

## **Observation and Recommendation**

29 May 2023

Portion B2





Portion A



Observation:

Portion of road leading to Portion A and Portion B2 shall be kept clear of dusty and muddy materials.

#### Follow-up status

## Portion B2



The entrance / exit at Portion B2 was cleaned by contractor.

## Portion A

## **Observation and Recommendation**

## 29 May 2023



Observation:

Slope protection work in Portion A shall be maintained properly to minimize dust dispersion and surface runoff.

### Follow-up status



Slope surface has paved to minimize dust dispersion and surface runoff.

#### 29 May 2023



Observation:

The accumulated uprooting trees was found behind the wetsep in Portion B2.





Waiting for Contractor's Input

## Observation:

The accumulate water was found the drip tray at Portion D. The contractor has been recommended that the accumulate water in drip tray should be cleared regularly and after rainy to minimize the potential chemical waste.



Reminder:

The contractor has been reminded that the particular attention should be paid to the control of silty surface runoff during storm event in accordance with Appendix A2 of ProPECC PN 1/94.

<u>SBA</u>



Portion E3-1





Observation:

The stagnant water and silt in the drip trays shall be clear off in Portion B2 and SBA.



Waiting for Contractor's Input

Observation:

Watering shall be scheduled in Portion A under hot weather.

Portion E3-1



<u>SBA</u>



Portion B2

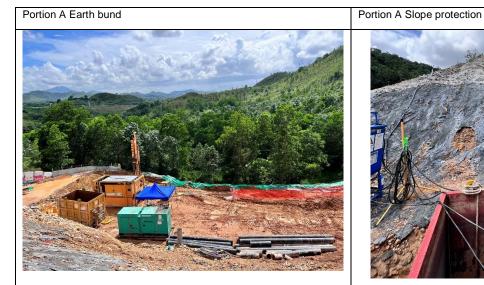


 The Contractor has been reminded to ensure channel and silt removal facilities shall be functioning properly for the upcoming rainfall.

## PART II Observation and recommendation identified during the environmental site inspection

Observation and Recommendation	Follow-up status
Schraf  Schraf	
2. The bunding along the slope edge shall be properly maintained to prevent surface runoff during heavy rainfall at Portion A.	

## PART III Temporary Drainage System Photo Record during the environmental site inspection





Portion E3 Sedimentation Basin and Slope Protection



SBA Silt Fencing



Inspection Date:

Jason Man

Time:		14:00	Wea	ather Condition:		Sunny		
Partic	icipants: Sylvia Ho (ER), V.C. Lau (Contractor), Kristy Wong (Contractor), Jason Man (ET)					n (ET)		
Α	Permits/Lic	enses		N/A or Not Observed	Yes	No	Remarks / Photo	
A1		nmental Permit, license/ other per major site exit and vehicle access?	mit		$\boxtimes$			
A2		uction Noise Permits/ Environmer er permit available for inspection/pos nce.			$\boxtimes$			
A3	Is wastewa	ater discharge licence available	for		$\boxtimes$			
A4	-	ets for chemical waste and construct sal available for inspection?	tion		$\boxtimes$			
A5	Are relevation for inspection	waste or excavated materials availa	of ible		$\boxtimes$			
В	Air Quality			N/A or Not Observed	Yes	No	Remarks / Photo	
B1	ls <u>open bur</u>	ning avoided?			$\boxtimes$			
B2		and equipment well maintained (k smoke from powered plant)?	(i.e.		$\boxtimes$			
В3	Any remedia	al action undertaken?		$\boxtimes$			N/A	
B4	Are the wor	ksites wetted with water regularly?			$\boxtimes$			
B5	Are <b>NRMM</b>	abels properly affixed on the PMEs?	1		$\boxtimes$			
В6	Observed du	ust source(s)						
				☐ Wind eros	sion			
				Vehicle/ E	quipment	Moveme	nts	
				Loading/ ι	unloading	of materia	als	
				Others:				
Air Po	ollution Cont	rol (Construction Dust) Regulation						
Part I	Control Req	uirements for Notifiable Works						
Demo	lition of build	ding						
B7	with water	involved demolition activities spray or a dust suppression chem prior to, during and immediately after	ical	×			N/A	
Cons	truction of th	e superstructure of a building						
B8		ng erected around the perimeter of	of a	$\boxtimes$			N/A	

Inspected By:

B9 B10	Are effective <u>dust screens</u> , <u>sheeting</u> or <u>netting</u> 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?  Is the <u>skip</u> for materials transport enclosed by <u>impervious sheeting</u> ?	$\boxtimes$			N/A
Part I	Il General Control Requirements				
Site b	oundary and entrance				
B11	Are <u>wheel washing facilities</u> with <u>high pressure</u> <u>water jet</u> provided at all site exits if practicable?		$\boxtimes$		
B12	Are the <u>areas of washing facilities</u> and the <u>road</u> <u>section between the washing facilities</u> and the <u>exit point</u> paved with concrete, bituminous materials or hardcores?		$\boxtimes$		
B13	Are the <u>hoarding</u> ≥ 2.4m tall provided at the site boundary near a road, street, service lane or other area accessible to the public?		$\boxtimes$		
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, hardcorres or metal plates, and kept clear of dusty materials?		$\boxtimes$		
B15	Are every <u>main haul road</u> sprayed with water or a dust suppression chemical?		$\boxtimes$		
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?		$\boxtimes$		
B17	Are appropriate <b>speed limit sign</b> displayed?		$\boxtimes$		
B18	Is <u>unpaved main haul road</u> wet by water spraying?			$\boxtimes$	Refer to Reminder 1
Ceme	nt 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 on the top and 3 sides?	$\boxtimes$			N/O
B20	Are the <u>activities of loading, unloading, transfer,</u> <u>handing or storage of bulk cement or dry PFA</u> <u>carried</u> out in a totally enclosed system or facility?	$\boxtimes$			N/A
B21	Is any vent or exhaust fitted with an <u>effective fabric</u> <u>filter or equipment air pollution control system?</u>	$\boxtimes$			N/A
Expos	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 within 6 months after last construction activity on the construction site or part of the construction site where the exposed earth lies?		$\boxtimes$		

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> 3 sides 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> ?		$\boxtimes$		
B24	Is the stockpile of dusty materials avoid to be extend beyond the pedestrian barriers, fencing or traffic cones?				
Load	ng, unloading or transfer of dusty materials				
B25	Are all dusty materials sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet?		$\boxtimes$		
B26	Are <u>all trucks loaded</u> to a level within the side and tail boards?		$\boxtimes$		
Use c	<u>f vehicles</u>				
B27	Are <u>every vehicle washed Immediately</u> to remove any dusty materials from its body and wheels before leaving a construction site?		$\boxtimes$		
B28	Are <u>loaded dump trucks</u> covered by impervious sheeting appropriately before leaving the site?		$\boxtimes$		
B29	Are site <u>vehicle movements</u> confined to designated roads?		$\boxtimes$		
Pneu	matic or power-driven drilling, cutting and polishing	1			
B30	Are <u>surfaces</u> where any <u>pneumatic or power-driven drilling</u> , <u>cutting</u> , <u>polishing or other 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
Debris 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 <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?	$\boxtimes$	
Site o	<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 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 <u>well-maintained plant</u> 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> ?		$\boxtimes$			
C4	Are the <u>silencers</u> or <u>mufflers</u> properly fitted on construction equipment and maintained regularly?	$\boxtimes$			N/O	
C5	Are <u>mobile</u> and/or <u>noisy plant</u> 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 <u>temporary hoarding</u> installed located on the site boundaries between noisy construction activities and NSRs?	$\boxtimes$			N/O	
C8	Are <u>noise barriers</u> (typically density @14kg/m²) <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 <u>operation</u> of <u>construction plants</u> where practicable?		$\boxtimes$			
C10	Is the <u>hoarding</u> 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	<b>QPME</b> used with valid noise labels?		$\boxtimes$			
C14	Major noise source(s)					
		Construction activities inside of site				
		Construction activities outside of site				
		Others:				

D	Water Quality	N/A or Not Observed	Yes	No	Remarks / Photo			
Const	Construction 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?		$\boxtimes$					
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?		$\boxtimes$					
D2a	Have <u>dikes</u> or <u>embankments</u> for <u>flood protection</u> implemented around the boundaries of earthwork areas?		$\boxtimes$					
D2b	Have <b>temporary ditches</b> 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?		$\boxtimes$					
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?		$\boxtimes$					
D4c	Are <u>exposed slope surfaces</u> covered by tarpaulin sheets?		$\boxtimes$		To be treated with shotcrete at part of slope surface.			
D5a	Have the <b>overall slope</b> of the site should be kept a minimum?		$\boxtimes$					
D5b	Are <u>all trafficked areas</u> and <u>access roads</u> protected by coarse stone ballast?		$\boxtimes$					
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?			$\boxtimes$	Refer to Observation 1			
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 <u>open stockpiles</u> of <u>construction materials</u> e.g. aggregates and sand of more than 50m <sup>3</sup> on site covered with tarpaulin or similar fabric during rainstorms?		$\boxtimes$					
D9a	Are <u>manholes</u> 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		$\boxtimes$	
	sewer always prevented?  Are particular attention paid to the control of silty			
D10a	surface runoff during storm event?		$\boxtimes$	
	Are the precautions to be taken at <u>any time</u> of year			
	when rainstorms are likely? (Appendix A2 of ProPECC PN 1/94)			
	<ul> <li>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.</li> </ul>			
	<ul> <li>ii. <u>Temporarily exposed slope surfaces</u> should be cover by tarpaulin.</li> </ul>			
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	<ul> <li>i. <u>Silt removal facilities</u>, <u>channels</u> and <u>manholes</u> should be checked to ensure that they can function properly.</li> <li>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.</li> <li>iii. <u>All temporary covers to slopes and stockpiles</u> should be secured.</li> </ul>			
	Are the actions to be taken <u>during</u> or <u>after</u> <u>rainstorms</u> ? (Appendix A2 of ProPECC PN 1/94)			
D10d	<ol> <li>Silt removal facilities, channels and manholes should be checked and maintained to ensure satisfactory working conditions. Attention should be given to safety when carrying out this work.</li> </ol>			
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?		$\boxtimes$	
D11e	Is the section of construction road between the wheel washing bay and the public road paved with backfill?		$\boxtimes$	
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

Environmental Site Inspection Checklist (Rev. 3)

D12c	Has a <b>bypass</b> provided to prevent flushing during		$\boxtimes$					
DIZC	heavy rain?							
	Are the <u>construction solid waste</u> , <u>debris</u> and							
D13	<u>rubbish</u> on site collected, handled and disposed of		$\boxtimes$	Ш				
	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		$\boxtimes$					
	capacity equal to 110% of the storage capacity of the		<u> </u>					
	largest tank?							
	Is <u>Intercepting bund</u> or <u>barrier</u> along the roadside							
D15	constructed to prevent pollution risk arising from work		$\boxtimes$	Ш				
	area (waste reception area)?							
D16	Are <u>site drainage systems</u> provided over the entire		$\boxtimes$					
	project site with sediment control facilities?		, ,					
	Are <u>sedimentation tanks</u> provided to treat the large							
D17	amount of sediment-laden wastewater generated		$\boxtimes$					
	from wheel washing, site runoff and construction		<u> </u>					
	works?							
D18	Is there any <b>sediment plume</b> observed in nearby			$\boxtimes$				
	watercourses?	_						
Sewag	e Effluent from Workforce (On-site sanitary facilities	s)						
	Are portable chemical toilets and sewage holding							
D19a	tanks provided?		$\boxtimes$	Ш				
	Is the sewage generated from toilets collected by							
D19b	licensed contractor and responsible for disposal and		$\boxtimes$					
	maintenance?							
	Are the notices posted at conspicuous locations to							
D20	remind the workers not to discharge any sewage or		$\boxtimes$					
	wastewater into the nearby environment?							
Accide	ental Spillage of Chemical (Service workshop and m	aintenance fac	·ilitias)					
D21a	Are the <u>service workshop</u> and <u>maintenance</u>							
DZIA	facilities located within a bunded area, and sumps				N/O			
	and oil interceptors?				14/0			
D21b	Are all maintenance of equipment involving							
DZID	activities with potential for leakage and spillage				N/O			
	undertaken within the areas?				14/0			
D21c	Is chemical leakage or spillages contained and	<b>5</b> -7						
	cleaned up immediately?	$\boxtimes$	Ш		N/O			
Surfac	ce Water Drainage System		T	l				
D22a	Is the temporary surface water drainage system		$\boxtimes$					
	provided to manage runoff?							
D22b	Does the system consist of <b>channel</b> as constructed		$\boxtimes$					
	around the perimeter of the site area?							
D00	Does the system collect surface water from the <u>areas</u>							
D22c	of higher elevations to those of lower elevations		$\boxtimes$					
	and ultimately to the discharge point?							
D22d	Is the <u>erosion</u> minimised?		$\boxtimes$					
	Does the system include the use of a silt fence							
D23a	around the <b>soil stockpile areas</b> to prevent sediment		$\boxtimes$					
	from entering the system?	_		_				
Door	Is the regular <u>cleaning</u> carried out to prevent		$\square$					
D23b	blockage of the passage of waste flow in silt fence?		$\boxtimes$					

E	Waste / Chemical Management	N/A or Not Observed	Yes	No	Remarks / Photo		
Waste Management							
General Waste							
E1	Is the general waste generated on-site stored in <a href="mailto:enclosed bins">enclosed bins</a> or compaction units separately from the construction and chemical wastes?		$\boxtimes$				
E2a	Is the general waste collected properly by using the waste separation facilities for paper, aluminium cans, plastic bottles etc.?		$\boxtimes$				
E2b	Does <u>accumulation</u> of <u>waste</u> 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?		$\boxtimes$				
C&D Materials							
E4a	Are there any <b>contract documents</b> provided to allow and promote the <b>use of recycled aggregates</b> where appropriate?		$\boxtimes$				
E4b	Are the <u>C&amp;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 <b>general fill</b> ?		$\boxtimes$				
E6b	Are the <u>steel reinforcement bars</u> 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?		$\boxtimes$				
Е7а	Are the <b>temporary stockpiles</b> maintained regularly?		$\boxtimes$				
E7b	Is the <b>excavated fill material</b> reused for backfilling and reinstatement?		$\boxtimes$				
E8a	Are the <u>excavated slope</u> , <u>stockpile material</u> and <u>bund walls</u> covered by tarpaulin?		$\boxtimes$				
E8b	Are covering trucks or transporting wastes in enclosed containers when <b>transportation of waste</b> ?		$\boxtimes$				
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 <u>nomination</u> of <u>approved personnel</u> to be responsible for good site practices and making arrangements for collection of all wastes generated on-site and effective disposal implemented?		$\boxtimes$				

E11	proper waste machemical waste ha	of <u>site personnel</u> for cleanliness, anagement procedures including andling, and waste reduction, reuse cept implemented?		$\boxtimes$		
E12	Are the <u>regula</u>	r cleaning and maintenance drainage systems, sumps, oil			$\boxtimes$	Refer to Observation
E13a	Are <u>wood</u> , <u>steel</u> a use and/or recyclii	and other metals separated for re-		$\boxtimes$		
E13b	•	materials appear contaminated?			$\boxtimes$	
E13c	If suspected conta followed?	aminated, appropriate <u>procedures</u>	$\boxtimes$			N/A
E14		C&D materials avoided onto any e.g. agricultural lands etc.?		$\boxtimes$		
E15	stored in differen	and <b>C&amp;D</b> waste segregated and it containers or skips to enhance g of materials and their proper				
Chemi	ical Waste / Waste	<u>Oil</u>				
E16	Are <u>chemicals</u> ar properly?	nd <u>waste oil</u> recycled or disposed		$\boxtimes$		
Chemi	ical Packaging					
E17a		ers a capacity of <450 L unless the peen approved by EPD?	$\boxtimes$			
E17b	maintained in a go	rs (holding, resistant to corrosion, nod condition, and securely closed) of chemical wastes?	$\boxtimes$			
Chemi	ical Labelling					
E18		or waste oil <b>stored</b> and <b>labelled</b> in <b>lese</b> properly in designated area?  Dimensions of Label  No less than 90 x 100mm  No less than 120 x 150mm  No less than 180 x 200mm				
Chemi	ical Waste / Fuel S	torage Area				
E19a	Are the storage separated (if need	area are clearly labelled and led)?	$\boxtimes$			N/O
E19b	fence of ≥2m tall capacity (>110%	area enclosed 3 sides by walls/ and bounded with adequate bund of largest container) or do the v storage of 20% of total volume	$\boxtimes$			N/O
E19c		areas have adequate ventilation to prevent rainfall entering and sunlight?	$\boxtimes$			N/O
E19d		ks and chemical storage areas s and sited on sealed areas?	$\boxtimes$			N/O
E20	collectors and di	te collected by <u>licensed waste</u> sposed of at <u>licensed facility</u> eg. Treatment Centre?		$\boxtimes$		

Reco	<u>rds</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?	$\boxtimes$	
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 <b>prominent safety warning signs</b> erected on- site to alert all personnel and visitors of LFG hazards during excavation works.?		$\boxtimes$		
F3	Is <u>no smoking</u> or <u>burning</u> permitted on-site?	$\boxtimes$			N/O
F4	Are prominent 'No smoking' and 'No Naked Flames' signs erected on-site?	$\boxtimes$			N/O
F5	Is no worker allowed to <b>work alone</b> 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 onsite?	$\boxtimes$			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 <b>piping assembly or conduit construction</b> , are all valves and seals closed immediately after installation?				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 <u>operation of installed pipeline</u> ?	$\boxtimes$			N/A
F11d	Is <u>forced ventilation</u> implemented for <u>works</u> <u>inside trenches deeper than 1m</u> ?	$\boxtimes$			N/A
F12	Is frequency and location of LFG monitoring within excavation area determined prior to commencement of works?		$\boxtimes$		

	*LFG monitoring in excavations should be conducted at < 10mm from exposed ground surface.		
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?	$\boxtimes$	
F14	Are <u>LFG monitoring</u> conducted periodically when any cracks on ground level encountered on-site?  *Appropriate action should be taken in accordance	$\boxtimes$	
F15a	with the action plan in Table 7.6 of EIA Report.  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?	$\boxtimes$	
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?	$\boxtimes$	
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 <sub>4</sub> : 0-100% and LEL: 0-100%/v  •CO <sub>2</sub> : 0-100%  •O <sub>2</sub> : 0-21%		
F17a	Periodically during groundwork construction, Is the works area monitored for CH <sub>4</sub> CO <sub>2</sub> and O <sub>2</sub> 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?	$\boxtimes$	
F17c	Are all measurements in excavations made with monitoring tube located < 10mm from exposed ground surface?	$\boxtimes$	
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	$\boxtimes$	

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F19 For excav								
conducted	ers are in excavation. /ations 300mm to 1m, are measurements							
	· · · · · · · · · · · · · · · · · · ·	' Ц	$\boxtimes$					
∣ le Direc	etly after excavation has been completed;							
and								
	dic all whilst excavation remains open.							
	vations < 300mm, are monitoring omitted cretion of Safety Officer or appropriately		$\boxtimes$					
qualified p			Ĭ					
l daamoa b					<u>l</u>			
		N/A or Not						
	pe and Visual Impacts	Observed	Yes	No	Remarks / Photo			
	k site <u>confined within</u> site boundaries?		$\boxtimes$					
	<u>e</u> to surrounding areas <u>avoided</u> ?		$\boxtimes$					
	rotective fencing erected along or beyond		$\boxtimes$					
the perime	eter of the tree protection zone of each		i '					
	ning tree planting							
	lanting using fast growing plants and tall at strategic locations within site		$\boxtimes$					
implemen			I					
G4b Are the	roadside planter and shrub planting		$\boxtimes$					
implemen	ted in front of <u>Cheung Sha Temple</u> ?							
Boundary Green Belt planting								
G5 Are the the	fast growing and fire-resistant plant		$\boxtimes$					
G5 Are the temperature of the species part of	fast growing and fire-resistant plant planted around the site perimeter?							
G5 Are the garage per Species program Temporary lands	fast growing and fire-resistant plant plant plant planted around the site perimeter?  scape treatment as green surface cover							
G5 Are the garage properties of the grass of	fast growing and fire-resistant plant planted around the site perimeter? scape treatment as green surface cover s hydroseeding or synthetic covering							
G5 Are the garage properties of the grass of	fast growing and fire-resistant plant plant plant planted around the site perimeter?  scape treatment as green surface cover							
G5 Are the garage properties of the grass material of the grass ma	fast growing and fire-resistant plant planted around the site perimeter?  scape treatment as green surface cover s hydroseeding or synthetic covering figreen colour used as a temporary slope							
G5 Are the garden per species process	fast growing and fire-resistant plant planted around the site perimeter?  scape treatment as green surface cover as hydroseeding or synthetic covering figreen colour used as a temporary slope reservation							
G5 Are the garage per second of the species of the	fast growing and fire-resistant plant plant planted around the site perimeter?  scape treatment as green surface cover as hydroseeding or synthetic covering figreen colour used as a temporary slope eservation ing and affected tree which identified as I significant preserved whenever							
G5 Are the gase period of the species period	fast growing and fire-resistant plant plant planted around the site perimeter?  scape treatment as green surface cover as hydroseeding or synthetic covering figreen colour used as a temporary slope eservation ing and affected tree which identified as I significant preserved whenever							
G5 Are the garage per second of the species of the	fast growing and fire-resistant plant plant planted around the site perimeter?  scape treatment as green surface cover as hydroseeding or synthetic covering figreen colour used as a temporary slope eservation ing and affected tree which identified as I significant preserved whenever							
G5 Are the garage per second of the species of the	fast growing and fire-resistant plant plant planted around the site perimeter?  scape treatment as green surface cover as hydroseeding or synthetic covering figreen colour used as a temporary slope eservation ing and affected tree which identified as I significant preserved whenever	N/A or Not Observed		No No	Remarks / Photo			
G5 Are the garden period of the species peri	fast growing and fire-resistant plant plant planted around the site perimeter?  scape treatment as green surface cover as hydroseeding or synthetic covering figreen colour used as a temporary slope eservation ing and affected tree which identified as I significant preserved whenever		Yes	No No	Remarks / Photo			
G5 Are the gase pecies	fast growing and fire-resistant plant planted around the site perimeter?  scape treatment as green surface cover is hydroseeding or synthetic covering if green colour used as a temporary slope in green significant preserved whenever is significant preserved whenever is antation of the important plant species ted? Is post-transplantation maintained			No □	Remarks / Photo			
G5 Are the gapecies p  Temporary lands G6 Are grass material or cover?  Existing tree pre G7 Are existing ecological possible?  H Ecology H1 Is transplaimplement	fast growing and fire-resistant plant plant planted around the site perimeter?  scape treatment as green surface cover s hydroseeding or synthetic covering figreen colour used as a temporary slope eservation ing and affected tree which identified as I significant preserved whenever annual significant preserved whenever significant preserved when significant preserved significant preserved whenever significant preserved significant significant preserved significant sign		Yes	No	Remarks / Photo			
G5 Are the gapecies p  Temporary lands G6 Are grass material or cover?  Existing tree pre G7 Are existing ecological possible?  H Ecology H1 Is transplaimplement	fast growing and fire-resistant plant planted around the site perimeter?  scape treatment as green surface cover is hydroseeding or synthetic covering if green colour used as a temporary slope in green significant preserved whenever is significant preserved whenever is antation of the important plant species ted? Is post-transplantation maintained	Observed	Yes	No O	Remarks / Photo			
G5 Are the gapecies p  Temporary lands G6 Are grass material or cover?  Existing tree pre G7 Are existing ecological possible?  H Ecology H1 Is transplimplement and monit	fast growing and fire-resistant plant planted around the site perimeter?  scape treatment as green surface cover is hydroseeding or synthetic covering if green colour used as a temporary slope in green significant preserved whenever is significant preserved whenever is antation of the important plant species ted? Is post-transplantation maintained		Yes	No No	Remarks / Photo			
G5 Are the gapecies process pr	fast growing and fire-resistant plant planted around the site perimeter?  scape treatment as green surface cover as hydroseeding or synthetic covering figreen colour used as a temporary slope reservation  ing and affected tree which identified as I significant preserved whenever whenever antation of the important plant species ted? Is post-transplantation maintained to red regularly?	Observed  N/A or Not	Yes					

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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. The slope protection in Portion E3-1 was implemented by the contractor to minimize the high concentration construction runoff.
- 2. The generator at Portion A was removed by contractor.
- 3. The accumulated unrooting trees behind the silt removal facility at Potion B2 were removed by the contractor.
- 4. The accumulate water in the drip tray at Portion D was cleaned up by the contractor.
- 5. The entrance / exit At Portion A was cleaned by contractor.
- 6. The silt removal facilities was functioning normally by the contractor.
- 7. The frequency of watering at the Potion A was increased by the contractor.

### Observation(s):

- The sediment at the drainage system and site boundary, especially at the lower elevations should be kept cleaning regularly. (Most of sediment was found at the lower elevations of Portion A). The contractor should ensure no untreated construction runoff discharging directly outside the site boundary of the project.
- 2. The accumulate water at the drip tray near Portion E2 was found.

### Reminder(s):

1. The unpaved assess road was dry. The contractor was reminded to increase the frequency of watering at the Portion A.

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

### Observation(s):

- 1. The contractor was recommended that the sediment at the drainage system and site boundary, especially at the lower elevations should be kept cleaning regularly.
- 2. The contractor was recommended that the accumulate water at the drip tray near Portion E2 should be cleaned after the rainy to minimize the potential chemical waste.

### Reminder(s):

1. The contractor was reminded to increase the frequency of watering at the unpaved assess road at the

Environmental Site Inspection Checklist (Rev. 3)

	Environmental Team's Representative:	Independent Environmental Checker's Representative:	Contractor's Representative:	Employee's Representative
Signature:		/	nl	Hv.
Name:	Jason Man	1	Grish wong	Sylvia Ho
Date:	26 Jun 2023	1	26 Jun 2023	26 Jun 2023

### PART I Follow-up status of the previous site inspection

### Observation and Recommendation

### 03 April 2023



The exposed slope surface near the stream has been covered with impervious sheets as a temporary mitigation measure. Shotcrete will be applied to the exposed surface by the end of April to prevent surface runoff into channel in long term.

### Follow-up status



The slope protection in Portion E3-1 was implemented by the contractor to minimize the high concentration construction runoff.

### 2 May 2023





Water in the drip tray shall be cleared off at Portion A.



The generator at Portion A was removed by contractor.

### 29 May 2023

### Portion A



Observation:

Portion of road leading to Portion A and Portion B2 shall be kept clear of dusty and muddy materials.

### Follow-up status

### Portion A



The entrance / exit At Portion A was cleaned by contractor.

### 29 May 2023



Observation:

The accumulated uprooting trees was found behind the wetsep in Portion B2.



The accumulated unrooting trees behind the silt removal facility at Potion B2 were removed by the contractor.

### 5 June 2023





### Observation:

The accumulate water was found the drip tray at Portion D. The contractor has been recommended that the accumulate water in drip tray should be cleared regularly and after rainy to minimize the potential chemical waste.

### Follow-up status



The accumulate water in the drip tray at Portion D was cleaned up by the contractor.

### 5 June 2023



### Reminder:

The contractor has been reminded that the particular attention should be paid to the control of silty surface runoff during storm event in accordance with Appendix A2 of ProPECC PN 1/94.

### Follow-up status







The silt removal facilities was functioning normally by the contractor.

Follow-up status

### **Observation and Recommendation**

5 June 2023

<u>SBA</u>



Portion E3-1





Observation:

The stagnant water and silt in the drip trays shall be clear off in Portion B2 and SBA.

Waiting for Contractor's Input

### 12 June 2023



Observation:

Watering shall be scheduled in Portion A under hot weather.

### Follow-up status



The frequency of watering at the Potion A was increased by the contractor.

Follow-up status

12 June 2023



SBA



Portion B2



 The Contractor has been reminded to ensure channel and silt removal facilities shall be functioning properly for the upcoming rainfall. Waiting for Contractor's Input

## **Observation and Recommendation** Follow-up status 19 June 2023 Reminder: The Contractor has been reminded to ensure silt removal facilities shall be functioning properly for the upcoming rainfall.

# Observation and Recommendation 19 June 2023 Waiting for Contractor's Input Reminder: 1. The bunding along the slope edge shall be properly maintained to prevent surface runoff during heavy rainfall at Portion A.

Follow-up status

### PART II Observation and recommendation identified during the environmental site inspection

## Observation and Recommendation



### Observation:

 The sediment at the drainage system and site boundary, especially at the lower elevations should be kept cleaning regularly. (Most of sediment was found at the lower elevations of Portion A). The contractor should ensure no untreated construction runoff discharging directly outside the site boundary of the project.

## **Observation and Recommendation** Follow-up status Observation: The accumulate water at the drip tray near Portion E2 was found. Reminder: The accumulate water at the drip tray near Portion E2 was found. The contractor was reminded to increase the frequency of watering at the unpaved assess road at the Portion A.

### PART III Temporary Drainage System Photo Record during the environmental site inspection

Temporary Drainage System at Portion D

Temporary Drainage System at Portion D



Temporary Drainage System at Portion D







Suitable Pump at the lower evelvation at Portion D

Earth bunds at Portion A





Earth bunds at Portion A



Cut-off drain with silt fencing at Portion B1-2



Cut-off drain with silt fencing at Portion B1-2



Cut-off drain with silt fencing at Portion B1-2



Silt removal facilities at Portion E3-1 with slope protection



Silt removal facilities at Portion E3-1



Silt removal facilities at Portion E3-1

Silt removal facilities at Portion E3-1



Sedimentation Basins at Portion E3-1

Earth bunds with silt fencing at the site boundary of Portion A





### Appendix K Environmental Mitigation Implementation Schedule (EMIS)

Environm	ental Mitigati	on Implementation Schedule (EMIS) Construction Phase					
EIA Ref.	EM&A Log Ref.	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 Qua	lity						
S3.8.	S3.1.8	<ul> <li>The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation.</li> <li>Dust emission from construction vehicle movement is confined within the worksites area.</li> <li>Watering facilities will be provided at every designated vehicular exit point.</li> <li>Good site practice is recommended during construction phase.</li> </ul>	Good construction site practices to control the dust impact at the nearby sensitive receivers to within the relevant criteria.	Contractor	Entire NENT Landfill Extension site	To control the dust impact to within the HKAQO and TM - EIA criteria (Ref. 1-hr and 24hr TSP levels are 500 μg/m <sup>-3</sup> and 260 μg/m <sup>-3</sup> , respectively)	✓
Constru	ıction Noise						
S4	S4.9	<ol> <li>Use of good site practices to limit noise emissions by considering the following:</li> <li>Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme;</li> <li>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;</li> <li>Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs;</li> <li>Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;</li> <li>Mobile plant should be sited as far away from NSRs as possible and practicable;</li> <li>Material stockpiles, mobile container site officer and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> </ol>	Control construction airborne noise by means of good site practices	Contractor	Entire construction site	Noise Control Ordinance	<b>*</b>
S4	S4.9	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	✓

EIA	EM&A	Recommended Precautionary/Mitigation Measures	Objectives of the	Who to	Location of	What requirement or	Status
Ref.	Log	(to be implemented when the trigger level is exceeded, where	Recommended	implement	the	standards for the	
	Ref	necessary)	Measures & Main	the	measures	measures to achieve?	
			Concerns to address	measures?			
Constru	ction Runo	ff			1		
35.8.1	S5.2.1	Construction on Site Runoff	Control construction	Contractor	Entire	ProPECC PN 1/94	✓
		At the start of site establishment, perimeter cut-off drains to direct	runoff and erosion		construction		
		off-site water around the site should be constructed with internal	from site surface,		site	Water Pollution Control	
		drainage works and erosion and sedimentation control facilities	drainage channel,			Ordinance	
		implemented. Channels (both temporary and permanent drainage	stockpiles, wheel				
		pipes and culverts), earth bunds or sand bag barriers should be	washing facilities, etc				
		provided on site to direct stormwater to silt removal facilities.	to minimize water				
		The dikes or embankments for flood protection should be	quality during				
		implemented around the boundaries of earthwork areas. Temporary	construction stage				
		ditches should be provided to facilitate the runoff discharge into an					
		appropriate watercourse, through a silt/sediment trap. The					
		sediment/silt traps should be incorporated in the permanent					
		drainage channels to enhance deposition rates.					
		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.					
		Construction works should be programmed to minimize surface					
		excavation works during the rainy seasons (April to September). 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. 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.					
		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. 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.					
		All drainage facilities and erosion and sediment control structures					
		should be regularly inspected and maintained to ensure proper and					
		efficient operation at all times and particularly following rainstorms.					
		Deposited silt and grit should be removed regularly and disposed of					
		by spreading evenly over stable, vegetated areas.					

EIA	EM&A	Recommended Precautionary/Mitigation Measures	Objectives of the	Who to	Location of	What requirement or	Status
Ref.	Log	(to be implemented when the trigger level is exceeded, where necessary)	Recommended	implement	the	standards for the	
	Ref	, , , , , , , , , , , , , , , , , , , ,	Measures & Main	the	measures	measures to achieve?	
			Concerns to address	measures?			
Construc	ction Runo	ff (Cont'd)	-				
5.8.1	S5.2.1	Measures should be taken to minimise the ingress of site drainage into	Control construction	Contractor	Entire	ProPECC PN 1/94	✓
		excavations. If the excavation of trenches in wet periods is necessary,	runoff and erosion		Construction		•
		they should be dug and backfilled in short sections wherever	from site surface,		site	Water Pollution Control	
		practicable. Water pumped out from trenches or foundation	drainage channel,			Ordinance	
		excavations should be discharged into storm drains via silt removal	stockpiles, wheel				
		facilities.	washing facilities, etc				
		Open stockpiles of construction materials (for example, aggregates,	to minimize water				
		sand and fill material) of more than 50 m <sup>3</sup> should be covered with	quality during				
		tarpaulin or similar fabric during rainstorms. Measures should be taken	construction stage				
		to prevent the washing away of construction materials, soil, silt or					
		debris into any drainage system.					
		Manholes (including newly constructed ones) should always be					
		adequately covered and temporarily sealed so as to prevent silt,					
		construction materials or debris being washed into the drainage					
		system and storm runoff being directed into foul sewers.					
		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.					
		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. An adequately designed and sited wheel washing bay					
		should be provided at every construction site exit. Wash-water should					
		have sand and silt settled out and removed at least on a weekly basis					
		to ensure the continued efficiency of the process. 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.					
		Oil interceptors should be provided in the site drainage system					
		downstream of any oil/fuel pollution sources. 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. A bypass should be provided for the oil interceptors to					
		prevent flushing during heavy rain.					

EIA Ref.	EM&A Log Ref	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
Constru	ction Runo	ff					
S5.8.1	S5.2.1	<ul> <li>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.</li> <li>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.</li> <li>To prevent pollution risks arising from works area (waste reception area) and haul roads, intercepting bund or barrier along the roadside should be constructed.</li> </ul>	Control construction runoff and erosion from site surface, drainage channel, stockpiles, wheel washing facilities, etc to minimize water quality during construction stage	Contractor	Entire construction site	ProPECC PN 1/94  Water Pollution Control Ordinance	<b>√</b>
S5.8.1	S5.2.1	Sewage Effluent from Workforce     Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.  Notices will be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the Project.  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.	Control sewage effluent arising from the sanitary facilities provided for the on- site construction workforce	Contractor	On-site sanitary facilities	ProPECC PN 1/94  Water Pollution Control Ordinance  Waste Disposal Ordinance	<b>√</b>
S5.8.1	S5.2.1	Accidental Spillage of Chemical Any service workshop and maintenance facilities shall be located within a bunded area, and sumps and oil interceptors shall be provided. Maintenance of equipment involving activities with potential for leakage and spillage will only be undertaken within the areas.	Control of chemical leakage	Contractor	Service workshop and maintenance facilities	ProPECC PN 1/94  Water Pollution Control Ordinance  Waste Disposal Ordinance	<b>√</b>

EIA	EM&A	Recommended Precautionary/Mitigation Measures	Objectives of the	Who to	Location of	What requirement or	Status
Ref.	Log	(to be implemented when the trigger level is exceeded, where necessary)	Recommended	implement	the	standards for the	
	Ref		Measures & Main	the	measures	measures to achieve?	
			Concerns to	measures?			
			address				
Erosion	Control Me	easures		•			•
55.8.2	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				Water Pollution Control	
		vegetation to the greatest extent possible during the construction				Ordinance	
		process. and after construction where appropriate. Maintaining natural					
		vegetation is 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.					

EIA Ref.	EM&A Log Ref	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
S5.8.2	\$5.2.2	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. 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	

EIA Ref.	EM&A	Recommended Precautionary/Mitigation Measures	Objectives of the	Who to implement	Location of the	What requirement	Status
	Log Ref	(to be implemented when the trigger level is exceeded, where	Recommended	the measures?	measures	or standards for the	
		necessary)	Measures & Main			measures to	
			Concerns to			achieve?	
			address				
Surface W	ater Draina	ge System					
\$5.8.2	S5.2.2	Temporary surface water drainage system will be provided to	Surface Water	Contractor	Surface water	Water Pollution	✓
		manage runoff during construction and operation. This system will	Management/		system	Control Ordinance	
		consist of channels as constructed around the perimeter of the site	Control run off		Construction		
		area. This system will collect surface water from the areas of higher				TM-water	
		elevations to those of lower elevations and ultimately to the point					
		of discharge. Erosion will therefore be minimised.					
		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. Regular cleaning will be carried out to					
		prevent blockage of the passage of water flow in silt fence.					
		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.					
		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.					

EIA	EM&A	ation Implementation Schedule (EMIS) Construction Phase   Recommended Precautionary/Mitigation Measures	Objectives of the	Who to	Location of	What	Status
Ref.	Log Ref	(to be implemented when the trigger level is exceeded, where necessary)	Recommended Measures & Main Concerns to address	implement the measures?	the measures	requirement or standards for the measures to achieve?	
	Manageme	ent					
S6	WM1	C&D Materials 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.  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.  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. The contract specifications should specify no excavated materials should be removed from the landfill extension site, but should be fully reused.  Careful design, planning and good site management to minimise over-ordering and waste materials such as concrete, mortars and cement grouts. The design of formwork should maximise the use of standard wooden panels so that high reuse levels can be achieved. Alternatives such as steel formwork or plastic fencing should be considered to increase the potential for reuse.  The Contractor should recycle as much as possible the C&D waste on-site through proper waste segregation on-site. 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 cons	Good site practice to minimise C&D waste generation and reuse/recycle all C&D on-site as far as possible	Contractor	Entire construction site	Waste Disposal Ordinance ETWB TC(W) No. 19/2005 DEVB TC(W) No. 6/2010	<b>√</b>

EIA	EM&A	ation Implementation Schedule (EMIS) Construction Phase   Recommended Precautionary/Mitigation Measures	Objectives of the	Who to	Location of	What	Status
Ref.	Log Ref	(to be implemented when the trigger level is exceeded, where necessary)	Recommended Measures & Main Concerns to address	implement the measures?	the measures	requirement or standards for the measures to achieve?	Cidido
S6	WM1	C&D Materials (Cont'd)  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. Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.  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.  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.  Training of site personnel for cleanliness, proper waste management procedures including chemical waste handling, and waste reduction, reuse and recycling concepts.  Regular cleaning and maintenance programme systems, sumps and oil interceptors. Prior to disposal of C&D waste, wood, steel and other metals should be separated for reuse and/or recycling to minimise the quantity of waste to be disposed of to landfill. Proper storage and site practices should be implemented to minimise the potential for damage or contamination of construction materials.  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.	Good site practice to minimise C&D waste generation and reuse/recycle all C&D on-site as far as possible	Contractor	Entire construction site	Waste Disposal Ordinance ETWB TC(W) No. 19/2005 DEVB TC(W) No. 6/2010	
S6	WM2	Chemical Waste 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.  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	Ensure proper disposal of chemical waste generated on-site to minimise the associated hazards on human health and environment	Contractor	Entire construction site	Waste Disposal (Chemical Waste) General Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Waste	✓

EIA	EM&A	Recommended Precautionary/Mitigation Measures	Objectives of the	Who to	Location of	What	
Ref.	Log Ref	(to be implemented when the trigger level is exceeded, where necessary)	Recommended Measures & Main Concerns to address	implement the measures?	the measures	requirement or standards for the measures to achieve?	
S6	WM2	Chemical Waste (Cont'd) 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.  The storage area for chemical wastes should be clearly labelled and used solely for storage of chemical waste, 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, whichever is the greatest, having adequate ventilation, being covered to prevent rainfall entering, and being arranged so that incompatible materials are adequately separated.  Chemical waste should be collected by licensed waste collectors and disposed of at licensed facility, e.g. Chemical Waste Treatment Centre.	Ensure proper disposal of chemical waste generated on-site to minimise the associated hazards on human health and environment.	Contractor	Entire construction site	Waste Disposal (Chemical Waste) General Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Waste	<b>√</b>
S6	WM3	General Refuse General refuse generated on-site should be properly stored in enclosed bins or compaction units separately from construction and chemical wastes.  All recyclable materials (separated from the general waste) should be stored on-site in appropriate containers with cover prior to collection by a local recycler for subsequent reuse and recycling. Residual, non-recyclable, general waste should be stored in appropriate containers to avoid odour. Regular collection should be arranged by an approved waste collector in purpose-built vehicles that minimise environmental impacts during transportation  Reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimise odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law.  Aluminium cans should be separated from general waste stream and collected by recyclers. Proper collection bins should be provided on- site to facilitate the waste sorting.	Minimise generation of general refuse to avoid odour, pest and visual nuisance	Contractor	Entire construction site	Waste Disposal Ordinance	<b>✓</b>

EIA	EM&A	Recommended Precautionary/Mitigation Measures	Objectives of the	Who to	Location of	What	
Ref.	Log	(to be implemented when the trigger level is exceeded, where necessary)	Recommended	implement	the measures	requirement or	
	Ref		Measures & Main	the		standards for the	
			Concerns to	measures?		measures to	
			address			achieve?	
S6	WM3	General Refuse (Cont'd)	Minimise	Contractor	Entire	Waste Disposal	✓
		Office waste paper should recycled if the volume warrant collection by recyclers.	generation of		construction	Ordinance	
		Participation in community waste paper recycling programme should be considered by	general refuse to		site		
		the Contractor, including waste paper, aluminium cans, plastic bottles, waste batteries,	avoid odour, pest				
		etc.	and visual				
			nuisance				

EIA	EM&A	Recommended Precautionary/Mitigation Measures	Objectives of the	Who to	Location of	What requirement or	Status
Ref.	Log Ref	(to be implemented when the trigger level is exceeded, where necessary)	Recommended Measures & Main Concerns to address	implement the measures?	the measures	standards for the measures to achieve?	
LFG							
		dfill Extension		T =	T = .		
S7	LFG1	Special LFG precautions should be taken due to close proximity of NENT landfill extension site to existing landfill to avoid potential hazards of LFG exposure (ignition, explosion, asphyxiation, toxicity).	To minimise the risk of LFG hazards to personnel in construction site	Contractor	Entire construction site	Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97)	✓
S7	LFG2	Prominent safety warning signs should be erected on-site to alert all personnel and visitors of LFG hazards during excavation works.				F&IU (Confined Spaces) Regulations	✓
S7	LFG3	No smoking or burning should be permitted on-site.				Code of Practice on Safety	✓
S7	LFG4	Prominent 'No smoking' and 'No Naked Flames' signs should be erected on-site.				and Health at Work in Confined Spaces	✓
S7	LFG5	No worker should be allowed to work alone at any time in excavated trenches or confined areas on-site.					✓
S7	LFG6	Adequate fire fighting equipment should be provided on-site.					✓
S7	LFG7	Construction equipment should be equipped with vertical exhaust at least 0.6m above ground installed with spark arrestors.					✓
S7	LFG8	Electrical motors and extension cords should be explosion-proof and intrinsically safe for use on-site.					✓
S7	LFG9	'Permit to Work' system should be implemented.					✓
S7	LFG10	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.					✓
S7	LFG11	For piping assembly or conduit construction, all valves and seals should be closed immediately after installation to avoid accumulation and migration of LFG. If installation of large diameter pipes (diameter >600mm) is required, the pipe ends should be sealed on one side during installation. Forced ventilation is required prior to operation of installed pipeline. Forced ventilation should also be required for works inside trenches deeper than 1m.	To minimise the risk of LFG hazards to personnel in construction site	Contractor	Entire construction site	Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97)  F&IU (Confined Spaces) Regulations  Code of Practice on Safety	<b>√</b>
S7	LFG12	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.				and Health at Work in Confined Spaces	✓

EIA Ref.	EM&A Log Ref	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
	NFNT Lan	dfill Extension					
S7	LFG13	For excavation works, LFG monitoring should be conducted (1) at ground surface prior to excavation, (2) immediately before workers entering excavations, (3) at the beginning of each half-day work, and (4) periodically throughout the working day when workers are in the excavation.	To minimise the risk of LFG hazards to personnel in construction site	Contractor	Entire construction site	Landfill Gas Hazard Assessment Guidance Note (EPD/TR8/97) F&IU (Confined Spaces)	~
S7	LFG14	Any cracks on ground level encountered on-site should be monitored for LFG periodically. Appropriate action should be taken in accordance with the action plan in Table 7.6 of EIA Report.				Regulations  Code of Practice on Safety and Health at Work in Confined Spaces	<b>√</b>
S7	LFG15	LFG precautionary measures involved in excavation and piping works should be provided in accordance with LFG Guidance Note and included in Safety Plan of construction phase. Temporary offices or buildings should be located where free LFG has been proven or raised clear of ground at a separation distance of at least 500mm.					✓
S7	LFG16	For large development such as NENT landfill extension, a Safety Officer trained in the use of gas detection equipment and LFG-related hazards should be present on-site throughout the groundwork phase. The Safety Officer should be provided with an intrinsically safe portable instrument appropriately calibrated and capable of measuring the following gases:  •CH <sub>4</sub> : 0-100% and LEL: 0-100%/v  •CO <sub>2</sub> : 0-100%  •O <sub>2</sub> : 0-21%					✓
S7	LFG17	Periodically during groundwork construction, the works area should be monitored for CH <sub>4</sub> CO <sub>2</sub> and O <sub>2</sub> 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. Routine monitoring should be carried out in all excavations, manholes, created by temporary storage of building materials on-site. All measurements in excavations should be made with monitoring tube located not more than 10mm from exposed ground surface.					<b>✓</b>

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		dfill Extension (Cont'd)					
S7	LFG18	For excavations deeper than 1m, measurements should be	To minimise the	Contractor	Entire construction	Landfill Gas Hazard	✓
		conducted:	risk of LFG		site	Assessment	
		<ul> <li>At ground surface before excavation commences;</li> </ul>	hazards to			Guidance Note	
	Immediatel	<ul> <li>Immediately before any worker enters the excavation;</li> </ul>	personnel in construction site			(EPD/TR8/97)	
		At the beginning of each working day for entire period the	CONSTRUCTION SILC				
		excavation remains open; and				F&IU (Confined	
		Periodically throughout the working day whilst workers are in				Spaces) Regulations	
		excavation.					
S7	LFG19	For excavations between 300mm and 1m, measurements should be				Code of Practice on	✓
		conducted:				Safety and Health at	
		Directly after excavation has been completed; and				Work in Confined Spaces	
		Periodic all whilst excavation remains open.				- CPGCCC	
S7	LFG20	For excavations less than 300mm, monitoring may be omitted at the discretion of Safety Officer or appropriately qualified person.					✓

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

		gation Implementation Schedule (EMIS) Construction Phase					
EIA	EM&A	Recommended Precautionary/Mitigation Measures	Objectives of the	Who to	Location of	What requirement or	Status
Ref.	Log	(to be implemented when the trigger level is exceeded, where	Recommended	implement	the measures	standards for the measures	
	Ref	necessary)	Measures & Main	the		to achieve?	
			Concerns to	measures?			
			address				
Lands	cape and \	Visual Phases		•			
S8	LV1	Advanced screening tree planting	To minimise the	Contractor	Entire	DEVB TC(W) No. 4/2020 -	Advanced screen tree
		Early planting using fast growing trees and tall shrubs at	impact on existing		construction	Tree Preservation	planting is under planning.
		strategic locations within site to block major view corridors	vegetation retained		site		
		to the site from the VSRs, and to locally screen haul roads,	by personnel in			DEVB TC(W)) No. 6/2015 -	
		excavation works and site preparation works.	construction			Maintenance of Vegetation	
		Roadside planter and shrub planting design in front of	To provide initiation			and Hard Landscape	
		Cheung Shan Temple.	on permanent			Features	
S8	LV2	Boundary Green Belt planting	landscape and				To be implemented during
		Considerable planting belts proposed around the site	visual mitigation			DEVB TC(W) No. 6/2011 -	operation phase
		perimeter and the construction of temporary soil bunds will	measures			Maintenance of Man-made	
		screen the landfill operations to a certain degree. Fast				Slopes and Emergency	
		growing and fire resistant plant species will be used.				Repair on Stability of Land	
S8	LV3	Temporary landscape treatment as green surface cover					Grass hydroseeding will be
		For certain areas where landfilling operations would have					applied at Portion E3-2.
		to be suspended temporarily for periods of years, simple					
		temporary landscape treatment such as hydroseeding					
		should be considered. During construction and operational					
		phases, grass hydroseeding or synthetic covering material					
		of green colour should also be used as a temporary slope					
		cover if applicable.					
S8	LV4	Existing tree preservation					<b>√</b>
	- ۷ -	Transplant existing trees and vegetation, which are					<b>'</b>
		identified as ecologically significant in Ecological Impact					
		Assessment and as rare tree species recorded in the tree					
		survey, under circumstances where technically feasible.					
		For all affected trees, the principle of avoidance of tree					
		felling and tree transplanting of tree before felling should					
		apply whenever possible. A tree felling application should					
		be submitted to DEVB-GLTMS and be approved before					
		any trees are felled or transplanted.					

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

EIA	EM&A	Recommended Precautionary/Mitigation Measures	Objectives of the	Who to	Location of	What requirement or	Status
Ref.	Log	(to be implemented when the trigger level is exceeded, where	Recommended	implement	the measures	standards for the measures to	
	Ref	necessary)	Measures & Main	the		achieve?	
			Concerns to	measures?			
			address				
Ecolog	ЭУ						
Gener	al Protection	on Measures:					
S10	E1	Restriction of construction activities to the work areas that	To minimise	Contractor	Entire	Practice Note for Professional	✓
		would be clearly demarcated.	environmental		construction	Persons (ProPECC),	
S10	E2	Reinstatement of the work areas immediately after completion	impacts and		site	Construction Site Drainage	✓
		of the works.	therefore potential			(PN1/94)	
S10	E3	Only well-maintained plant should be operated on-site and plant	ecological impacts				✓
		should be serviced regularly during the construction	within and near the			Code of Practice on the	
		programme.	construction site			Packaging, Labelling and	
S10	E4	Machines and plant (such as trucks, cranes) that may be in				Storage of Chemical Wastes,	✓
		intermittent use should be shut down between work periods or				EPD (1992)	·
		should be throttled down to a minimum.					
S10	E5	Plant known to emit noise strongly in one direction, where				ETWB TC(W)) No. 33/2002	<b>√</b>
		possible, be orientated so that the noise is directed away from				Management of Construction	, The state of the
		nearby NSRs.				and Demolition Material	
S10	E6	Silencers or mufflers on construction equipment should be				Including Rock	To be implemented
		properly fitted and maintained during the construction works.					
S10	E7	Mobile plant should be sited as far away from NSRs as possible				DEVB TC(W) No. 6/2010 Trip	✓
0.0		and practicable.				Ticket System for Disposal of	*
S10	E8	Material stockpiles, site office and other structures should be				Construction and Demolition	<b>√</b>
2.0		effectively utilised, where practicable, to screen noise from on-				Materials	•
		site construction activities.					
		Site Seriou deurinos.				ETWB TC(W)No.19/2005	
S10	E9	Use of "quiet" plant and working methods.				Environmental Management	✓
S10	E10	Construction phase mitigation measures in the Practice Note				on Construction Sites	<b>√</b>
		for Professional Persons on Construction Site Drainage.					

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

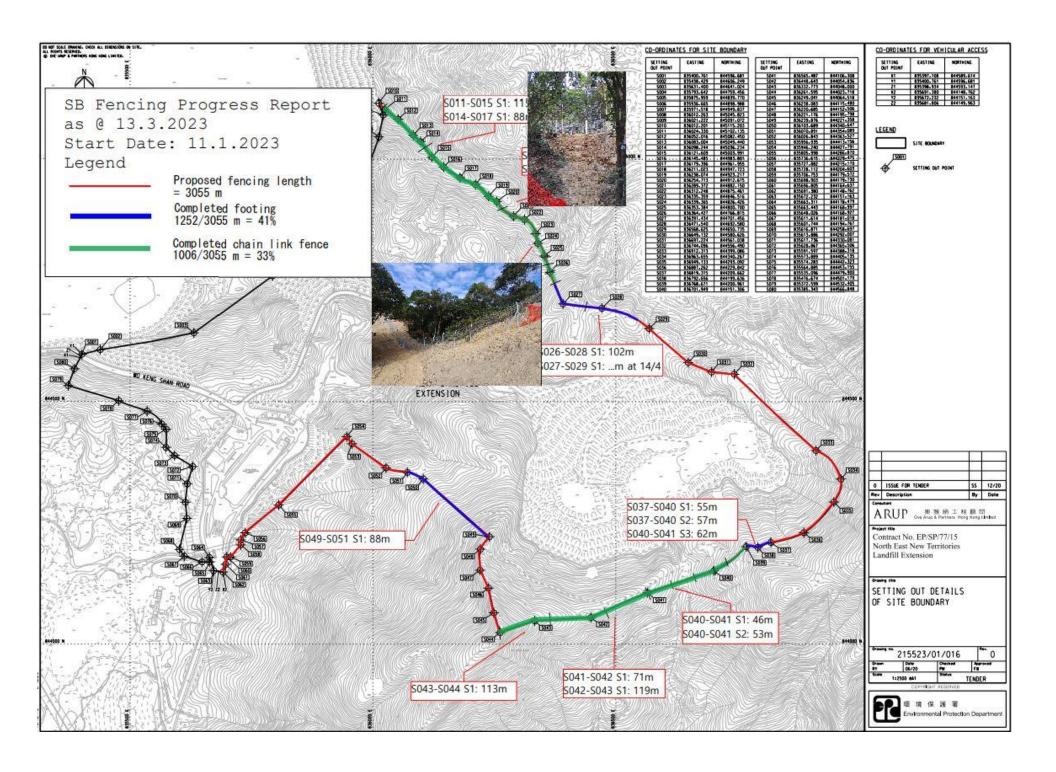
EIA Ref.	••	Recommended Precautionary/Mitigation Measures (to be implemented when the trigger level is exceeded, where necessary)	Objectives of the Recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	What requirement or standards for the measures to achieve?	Status
S10	E11	tion Measures:  Design and set up of the temporary on-site drainage system will be undertaken by the contractor prior to the commencement of construction.	To minimise environmental impacts and	Contractor	Entire construction	WBTC No. 12/2002, Specifications Facilitating the Use of Recycled Aggregates	<b>√</b>
S10	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.	therefore potential ecological impacts within and near the			WBTC Nos. 25/99,25/99A and 25/99C. Incorporation of Information on Construction	✓
S10	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.	construction site			and Demolition Material Management in Public Works Subcommittee Papers	✓
S10	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.					✓
S10	E15	Provision of oil interceptors in the drainage system downstream of any oil/fuel pollution sources					<b>✓</b>

## Appendix L Construction Site Activities

Construction Activities	Photos	When	Where	Who	What - ENV Impacts	Mitigation Measures
Material loading and unloading, site traffic	The of the	Dec 22 to Dec 23	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
Permanent site office foundation works with pouring of concrete		Dec 22 to Aug 23	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		1	Portion A, Portion B1, Portion E4	PYE	Dust	Covering of cement storage area, enclosure of mixing area
Site formation		Dec 22 to Dec 23	Portion A, Portion E3-1	PYE	Generation of C&D waste	Implementation of trip ticket system, waste recycling, internal waste transfer
Tree Felling		Dec 22 to Aug 23	Portion E3-1, E4, E1/B2	PYE	Generation of yard waste	Implementation of trip ticket system, waste recycling, internal waste transfer

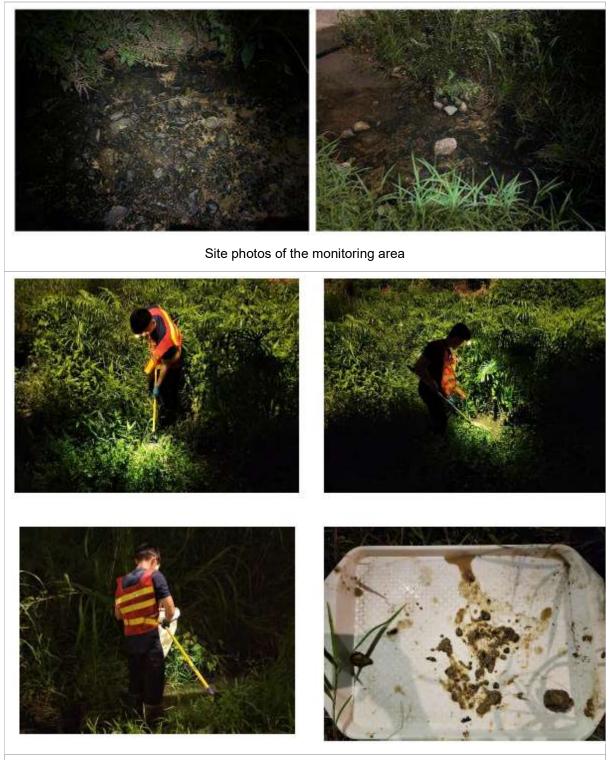
Remark:
PYE is the Sub-contractor for this project.

# Appendix M Mitigation Measures of Cultural Landscape Features



## Appendix N Ecological Monitoring Record

Post-translocation monitoring photo record extracted from post-translocation report (June 2023)



Hand netting to search for S. zanklon



Kick-netting to search for S. zanklon





Direct Observation to search for *S. zanklon* 

### B.1 Incense Tree Aquilaria sinensis



Photo B.1.1.: General view of the transplanted individual AS-03.



Photo B.1.2.: Stem condition of the transplanted individual AS-03.



Photo B.1.3.: General view of the transplanted individual AS-02.



Photo B.1.4.: Stem condition of the transplanted individual AS-02.



### B.2 Lamb of Tartary *Cibotium barometz*



Photo B.2.1.: General view of the transplanted individual CB-01.



Photo B.2.2.: New foliage of the transplanted individual CB-01.



Photo B.2.3.: Leaf condition of the new foliage.



Photo B.2.4.: Leaf condition of the new foliage.



### B.3 Bottlebrush Orchid Goodyera procera



Photo B.3.1: Individual GP-01.



Photo B.3.3: Individual GP-02.



Photo B.3.2: Individual GP-01.



Photo B.3.4: Individual GP-04.





Photo B.3.5: Individual GP-05. Dead.



Photo B.3.7: Individual GP-07.



Photo B.3.6: Individual GP-06. Wilted flower.



Photo B.3.8: Individual GP-08.





Photo B.3.9: Individual GP-09.



Photo B.3.11: Individual GP-11. Dead.



Photo B.3.10: Individual GP-10.



Photo B.3.12: Individual GP-12. Partially wilted leaf.





Photo B.3.13: Individual GP-13.



Photo B.3.15: Individual GP-14.



Photo B.3.14: Individual GP-13. Chlorotic leaves.



Photo B.3.16: Individual GP-15.





Photo B.3.17: Individual GP-16.



Photo B.3.18: Individual GP-17.



Photo B.3.19: Individual GP-19. Dead.



## Appendix O Detail Status of EP Submission

### Detail Status of Submissions required under the FEP & EP

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

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

Appendix P 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 June 2023	EPD-RNG	ET	Water Quality	TBC	It was noted from EPD-RNG's email to the ET on 14 June 2023 that EPD received complaint lodged regarding the muddy water was observed at Lin MA Hang International Bridge.  Investigation results and conclusion will be presented when the investigation finished.	ТВС

### Remarks:

- "ET" equal to "Environmental Team"
   "EPD-RNG" equal to "Environmental Protection Department-Regional Office (North)"

### **Environmental Enquiries Log**

Enquiry Ref. No.	Date of Enquiry Received	Received from	Received by	Aspect of Complaint	Date of Investigation	Investigation Summary & Conclusion	Date of Reply
E001_20230615	15 Jun 2023	EPD-RNG	ET	Water Quality	ТВС	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). Investigation results and conclusion will be presented when the investigation finished.	ТВС

### Remarks:

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

### **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	0	1	1
Waste Management	0	0	0
Total	1	1	2

### Prepared by:

Aurecon Hong Kong Limited

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

223 - 231 Wai Yip Street, Kwun Tong,

Kowloon Hong Kong S. A. R.

T: +852 3664 6888

F: +852 3664 6999

E: hongkong@aurecongroup.com



