

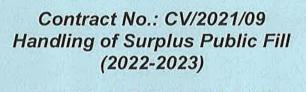
TEST REPORT

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China Harbour Engineering Co Ltd



TUEN MUN AREA 38 FILL BANK

MONTHLY EM&A REPORT NO.22

(OCTOBER 2023)

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Assistant Environmental Officer

Checked by:

LAU, Chi Leung Environmental Team Leader

Issue Date: 22 November 2023

Report No.: ENA37456

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Our Ref: PL-202401005

ETS-Testconsult Limited 8/F, Block B, Veristrong Industrial Centre 34-36 Au Pui Wan Street Fo Tan, Hong Kong

Attention: Mr. C L Lau

5 January 2024

Dear Mr. Lau,

RE: Contract No. CV/2021/09 Handling of Surplus Public Fill (2022-2023) Monthly EM&A Report (No. 22) for October 2023 for the Tuen Mun Area 38 Fill Bank

Reference is made to your submission of the Monthly EM&A Report for October 2023 for the Tuen Mun Area 38 Fill Bank, we are pleased to inform you that we have no adverse comment on the captioned report.

Thank you for your attention. Please do not hesitate to contact the undersigned should you have any queries.

Yours faithfully,

Toang Jankeorg

F. C. Tsang Independent Environmental Checker

cc. CEDD – Mr. T M YEUNG

Contract No.: CV/2021/09 Handling of Surplus Public Fill (2022-2023) – Tuen Mun Area 38 Fill Bank ENA37456 Monthly EM&A Report No.22

東業德勤測試顧問有限公司 ETS-TESTCONSULT LTD.

TABLE OF CONTENTS

Page

EXECUTI	VE SUMMARY	
1.0	INTRODUCTION	1
2.0	PROJECT INFORMATION	
	2.1 Construction Programme	1
	2.2 Project Organization and Management Structure	1
	2.3 Contact Details of Key Personnel	1
3.0	CONSTRUCTION PROGRESS IN THIS REPORTING MONTH	2
4.0	AIR QUALITY MONITORING	
	4.1 Monitoring Requirement	2
	4.2 Monitoring Equipment	2
	4.3 Monitoring Parameters, Frequency and Duration	2
	4.4 Monitoring Locations and Schedule	2
	4.5 Monitoring Methodology	3
	4.6 Action and Limit levels	4 4
	4.7 Event-Action Plans 4.8 Results and Observations	4
5.0	MARINE WATER QUALITY MONITORING	4
5.0	5.1 Monitoring Requirements	4
	5.2 Monitoring Locations	4
	5.3 Monitoring Parameters and Frequency	4
	5.4 Monitoring Methodology and Equipment Used	- 5 – 6
	5.5 Action and Limit Levels	6 – 7
	5.6 Event and Action Plan	7
	5.7 Monitoring Duration and Period in this reporting month	7
	5.8 Marine Water Monitoring Results	7
6.0	NOISE MONITORING	
	6.1 Monitoring Requirements	8
	6.2 Monitoring Equipment	8
	6.3 Monitoring Parameters, Duration and Frequency	8
	6.4 Monitoring Locations and Period	8
	6.5 Monitoring Procedures and Calibration Details	8 – 9
	6.6 Action and Limit levels	9
	6.7 Event-Action Plans	9
	6.8 Results and Observation	9
7.0	ENVIRONMENTAL AUDIT	
	7.1 Weekly Site Inspection and EPD's Site Inspection	9 – 10
	7.2 Review of Environmental Monitoring Procedures	10
	7.3 Status of Environmental Licensing and Permitting	11
	7.4 Implementation Status	11 - 12
8.0	LANDSCAPE AND VISUAL	12
9.0	WASTE MANAGEMENT	
	9.1 Summary of Waste disposed of in this month	12
	9.2 Advice on the Solid and Liquid Waste Management Status	12
10.0	ENVIRONMENATL NON-CONFORMANCE	
	10.1 Summary of air quality, noise and marine water quality	13
	10.2 Summary of Environmental Complaints	13
44.0	10.3 Summary of Notification of Summons and Prosecution	13
11.0	CONCLUSIONS AND RECOMMENTATIONS	13 - 14
12.0	FUTURE KEY ISSUE	14

APPENDIX

AFFENDIA	
А	Organization Chart and Lines of Communication
B1	Calibration Certificates for Impact Air Quality Monitoring Equipments
B2	Impact Air Quality Monitoring Results
B3	Graphical Plots of Impact Air Quality Monitoring Data
C1	Calibration Certificates for Impact Marine Water Quality Monitoring Equipments
C2	Impact Marine Water Quality Monitoring Results
C3	Graphical Plots of Impact Marine Water Quality Monitoring Data
D1	Calibration Certificates for Impact Noise Monitoring Equipments
D2	Impact Noise Monitoring Results
D3	Graphical Plots of Impact Noise Monitoring Data
E	Weather Condition
F	Event-Action Plans
G	Construction Programme
Н	Weekly ET's Site Inspection Record
I	Implementation Schedule of Mitigation Measures
J	Site General Layout Plan
К	Monthly Summary Waste Flow Table
L	Monitoring Schedule for the Coming Month
Μ	Reporting Month Monitoring Schedule
Ν	QA/QC Results of Laboratory Analysis
0	Complaint Log
	· •

FIGURES

Figure 1	Locations of Air Quality Monitoring Stations – Tuen Mun Area 38 Fill Bank
Figure 2	Locations of Water Quality Monitoring Stations – Tuen Mun Area 38 Fill Bank
Figure 3	Locations of Noise Monitoring Stations – Tuen Mun Area 38 Fill Bank

TABLES

2.1	Contact Details of Key Personnel
4.1	Air Quality Monitoring Equipment
4.2	Monitoring parameters, duration and frequency of air quality monitoring
4.3	Action and Limit levels for 24-hr TSP and 1-hr TSP
5.1	Monitoring Parameters and Frequency of the marine water
5.2	Summary of testing procedure
5.3	Details of Water Quality Monitoring Equipment (In-site measurement)
5.4	Water Quality Action and Limit Levels
5.5	Time Schedule of Water Quality Monitoring
5.6	Summary of Marine Water Quality Exceedances in this reporting month
6.1	Noise Monitoring Equipment
6.2	Duration, Frequencies and Parameters of Noise Monitoring
6.3	Action and Limit Levels for noise monitoring
7.1	Key Findings of Weekly ET Site Inspections in this reporting month
7.2	Summary of environmental licensing and permit status
7.3	Summary of Environmental Complaints and Prosecutions
9.1	Actual amounts of waste generated in this reporting month

EXECUTIVE SUMMARY

This monthly Environmental Monitoring and Audit (EM&A) report No.22 was prepared by Environmental Team (ET) of ETS-Testconsult Ltd (ETL) for the "Contract No. CV/2021/09 Handling of Surplus Public Fill (2022-2023) – Tuen Mun (TM) Area 38 Fill Bank" (The Project).

This report documented the findings of EM&A Works conducted during the operation phase of Fill Bank at TM Area 38 in October 2023.

Site Activities

As informed by the Contractor, the site activities in this reporting period were as below:

- 1. Operation of the Public Fill Reception Facilities at Tuen Mun Fill Bank (TMFB);
- 2. Operation and Maintenance of Crushing plant at TMFB;
- 3. Delivery of public fill to Taishan at TMFB;
- 4. Operation of the Integrated Public Fill Reception at TMFB;
- 5. Operation and Maintenance of Wheel Washing Bays and Facilities at TMFB;
- 6. Operation and Maintenance of Wash House at TMFB
- 7. Personnel Position Tracking and Proximity Detection System of Moving Plant at TMFB;
- 8. Operation and Maintenance a Digital Works Supervision System (DWSS) for TMFB;
- 9. Operation of a New Soil Platform for Preliminary Sorting of Public Fill at TMFB;
- 10. Operation of Concrete Slab at Wet Deposition Platform in TMFB
- 11. Operation of AI System for Crushing Plant at TMFB
- 12. Implementation of C Easy system at TMFB (phase 1)
- 13. Carry out GCO Probe test and SRT

Environmental Monitoring Progress

The summary of the monitoring activities in this monitoring month is listed below:

- 24-hour TSP Monitoring: 5 Occasions at 2 designated locations
- 1-hour TSP Monitoring: 15 Occasions at 2 designated locations
- Noise, Daytime: 9 Occasions at 2 designated locations
- Marine Water Quality Monitoring: 12 Occasions at 4 designated locations
- Weekly-site inspection: 5 Occasions

<u>Air Monitoring</u>

No exceedance of Action and Limit level was recorded for 1-hr and 24-hr TSP monitoring in the reporting period.

Noise Monitoring

No exceedance of Action and Limit level for noise monitoring was recorded in the reporting period.

Marine Water Quality Monitoring

No exceedance of action and limit level was recorded in the reporting period.

Weekly Site Inspection

In general, performance on environmental mitigation measures implemented was found to be satisfactory in this reporting period. The major findings observed during site inspections are presented in the Section 7.0.

Environmental Complaints, Notification of summons and successful prosecutions

No complaint, notification of summon and prosecution with respect to environmental issues was received in this reporting period.

Future Key Issues

Based on the site inspections and forecast of engineering works in the coming month, key issues to be considered are as follows:

- Dust generation from activities on site, such as vehicular movements along unpaved area and rock crushing activities;
- Noise impact from operating equipment and machinery on site;
- Wastewater and surface runoff from the site discharged into nearby water body; and
- Storage and usage of chemicals / fuel and chemical waste / waste oil.



1.0 INTRODUCTION

China Harbour Engineering Co Ltd (CHEC) appointed Environmental Team (ET) of ETS-Testconsult Limited (ETL) to undertake the Environmental Monitoring and Audit (EM&A) for the "Contract No: CV/2021/09 –Handling of Surplus Public Fill (2022-2023) – Tuen Mun (TM) Area 38 Fill Bank" (The Project).

In accordance with the Condition 4 of Part C of Environmental Permit (No.: EP-210/2005/E) (the EP), an EM&A programme as set out in the Project Profile should be implemented.

The EM&A programme requires environmental monitoring for air quality, water quality and environmental site inspections for air quality, water quality, landscape and visual, and waste management. The EM&A requirements for each parameter described in the following sections include:

- All monitoring parameters;
- Monitoring schedules for the reporting month and forthcoming months;
- Action and Limit levels for all environmental parameters;
- Event/Action Plans;
- Environmental mitigation measures, as recommended in the Project Profile; and
- Environmental requirements in contract documents.

Baseline monitoring was completed in May 2003 by Stanger Asia Ltd. Action and Limit Levels were established for air and water quality parameters based on the baseline monitoring results.

This report documented the findings of EM&A Works conducted during the operation phase of Fill Bank at Tuen Mun Area 38 in October 2023.

2.0 **PROJECT INFORMATION**

2.1 Construction Programme

Details of construction programme are shown in Appendix G.

2.2 Project Organization and Management Structure

The organization chart and lines of communication with respect to the on-site environmental management and monitoring program are shown in Appendix A.

2.3 Contact Details of Key Personnel

The key personnel contact names and telephone numbers are shown in Table 2.1.

Organization	Name of Key Staff	Project Role	Tel. No.	Fax No.	
CEDD	Mr. C W Au Yeung, Andrew Cheung	Engineer's Representative	2623 9267 / 2762 5588	2714 0113	
IEC (Acuity)	Mr. F C Tsang	IEC	2698 9097	2333 1316	
Contractor (CHZH-JV)	Zhou Chang Ying	Senior Project Manager	96266299	22474108	
ET (ETL)	C. L. Lau	ET Leader	2946 7791	2695 3944	

 Table 2.1
 Contact Details of Key Personnel



3.0 CONSTRUCTION PROGRESS IN THIS REPORTING MONTH

As informed by the Contractor, the activities in the reporting month include:

- 1. Operation of the Public Fill Reception Facilities at Tuen Mun Fill Bank (TMFB);
- 2. Operation and Maintenance of Crushing plant at TMFB;
- 3. Delivery of public fill to Taishan at TMFB;
- 4. Operation of the Integrated Public Fill Reception at TMFB;
- 5. Operation and Maintenance of Wheel Washing Bays and Facilities at TMFB;
- 6. Operation and Maintenance of Wash House at TMFB
- 7. Personnel Position Tracking and Proximity Detection System of Moving Plant at TMFB;
- 8. Operation and Maintenance a Digital Works Supervision System (DWSS) for TMFB;
- 9. Operation of a New Soil Platform for Preliminary Sorting of Public Fill at TMFB;
- 10. Operation of Concrete Slab at Wet Deposition Platform in TMFB
- 11. Operation of AI System for Crushing Plant at TMFB
- 12. Implementation of C Easy system at TMFB (phase 1)
- 13. Carry out GCO Probe test and SRT

4.0 AIR QUALITY MONITORING

4.1 Monitoring Requirement

1-hr and 24-hr TSP levels were monitored in the reporting month. Table 4.3 shows the Action and Limit Levels for the environmental monitoring works.

4.2 Monitoring Equipment

Both 1-hour and 24-hour TSP air quality monitoring was performed using a High Volume Air Sampler (HVS) located at each of the designated monitoring station. Table 4.1 summarizes the equipment used in the air quality monitoring programme. Copies of the calibration certificates for the HVS and calibrator are attached in Appendix B1.

Table 4.1	Air Quality Monitoring Equipment	

Table 1.1 , an Quality Monitoring Equip	non
Equipment	Model and Make
HVS	Graseby GMW 2484 & 1180
Calibrator	Tisch TE-5025A 4128

4.3 Monitoring Parameters, Frequency and Duration

Table 4.2 summarizes the monitoring parameters, monitoring duration and frequencies of air quality monitoring.

 Table 4.2
 Monitoring parameters, duration, frequency of air quality monitoring

Parameter	Duration	Frequency
24-hr TSP	24 hr	Once per six days
1-hr TSP	1 hr	Three times per six days

4.4 Monitoring Locations and Schedule

In accordance with the Project Profile, two air-quality monitoring stations, namely TM-A1 and TM-A2, were selected for the 1-hr TSP and 24-hr TSP sampling.

Since the area for existing air monitoring station TM-A2 near Tipping Hall No.1 was handed over to EcoPark, air monitoring station TM-A2 was cancelled and the air monitoring was carried out at an alternative air monitoring station TM-RA2 (refer to Figure 1 attached) from 28 October 2008.

The locations of monitoring stations are shown in Figure 1.



During the reporting month, 1-hr and 24-hr TSP monitoring were carried out as the schedule. The details for 24-hr and 1-hr TSP monitoring carried out in this reporting month are summarized in Appendix B2.

4.5 Monitoring Methodology

Both 1-hr and 24-hr air quality monitoring (High Volume Sampler)

Instrumentation

High volume sampler (HVS) complete with appropriate sampling inlets were employed for both 1hour and 24-hour TSP monitoring. The sampler is composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complies with that required by USEPA standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).

Installation

The installation of HVS refers to the requirement stated in Appendix D2 "General Technical Requirements of Environmental Monitoring" in the Environmental Monitoring and Audit Guidelines for Development Projects in Hong Kong published by EPD.

Operation/Analytical Procedures

Operating/analytical procedures for the operation of HVS are as below:

- Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 0.6m³/min and 1.7m³/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50. The flow rate is indicated on the flow rate chart.
- For TSP sampling, fiberglass filters (GA-55) were used.
- The power supply was checked to ensure the sampler worked properly.
- On sampling, the sampler was operated 5 minutes to establish thermal equilibrium before placing any filter media at designated air monitoring station.
- The filter holding frame was then removed by loosening the four nuts and carefully a weighted and conditioned filter was centered with the stamped number upwards, on a supporting screen.
- The filter was aligned on the screen so that the gasket formed an air-tight seal on the outer edges of the filter. Then the filter holder frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- The programmable timer will be set for a sampling period of 1 hour / 24 hours. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number.).
- After sampling, the filter was transferred from the filter holder of the HVS to a sealed plastic bag and sent to the laboratory for weighting. The elapsed time was also recoded.
- Before weighting, all filters were equilibrated in a 3esiccators for 24 hour with the temperature of 25°C <u>+</u> 3°C and the relative humidity (RH) <50% <u>+</u>5%.

Maintenance & Calibration

- The HVS and their accessories should be maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
- HVS should be calibrated at bi-monthly intervals.

Wind Data Monitoring

Wind data included wind speed and wind direction were directly extracted from Tuen Mun Station of Hong Kong Observatory during this reporting month. The wind data are presented in Appendix E.



4.6 Action and Limit Levels

Table 4.3 shows the Action and Limit levels for 24-hr TSP and 1-hr TSP monitoring.

Monitoring	24-hr TSP (μg/m³)		1-hr TSP (μg/m³)		
Location	Action Level	Limit Level	Action Level	Limit Level	
TM-A1	192	260	344	500	
TM-RA2 *	192	260	344	500	

Table 4.3 Action and Limit Levels for 24-hr TSP and 1-hr TSP

Remark (*): Since the area for existing air monitoring station TM-A2 near Tipping Hall No.1 was handed over to EcoPark, air monitoring station TM-A2 was cancelled and the air monitoring was carried out at an alternative air monitoring station TM-A2 from 28 October 2008. Since dust monitoring stations TM-A2 and TM-RA2 are located close to the major dust emission sources and no significant difference between them on the prevailing meteorological conditions, the baseline data from TM-A2 can also be valid in the case of TM-RA2.

4.7 Event-Action Plans

Please refer to Appendix F for details.

4.8 Results and Observations

All monitoring data of both 1-hr and 24-hr TSP monitoring is provided in Appendix B2. Graphical presentation of 1-hr and 24-hr TSP monitoring results for the reporting period is shown in Appendix B3. Wind data, including wind speed and wind direction, are annexed in Appendix E.

No exceedance of Action and Limit level was recorded for 1-hr and 24-hr TSP monitoring in the reporting month.

Generally, the Contractor implemented sufficient dust mitigation measures, including operation of wheel washing facilities and road dampening by water bowsers on the main haul roads and unpaved areas.

5.0 MARINE WATER QUALITY MONITORING

5.1 Monitoring Requirements

In accordance with the Project Profile, impact marine water quality monitoring was conducted three days per week. Measurements were taken at both mid-flood and mid-ebb tides at three depths (i.e. 1m below surface, mid depth and 1m from seabed) at two control monitoring stations (TM-FC1 and TM-FC2) and two impact monitoring stations (TM-FM1and TM-FM2).

5.2 Monitoring Locations

As stipulated in the EM&A requirement, there were four monitoring stations undertaken during the impact monitoring. Figure 2 shows the locations of the marine water quality monitoring stations.

5.3 Monitoring Parameters and Frequency

Monitoring of the marine water quality parameters and frequency are listed in Table 5.1.

Monitoring Station	Parameter	Frequency	No. of Depths
	Depth (m)		
Control Stations:	Temperature (°C)		
TM-FC1 (Mid-ebb) and TM-FC2 (Mid-flood)	Dissolved Oxygen (mg/L and % saturation)	3 days/week,	3 (Surface, mid-
Impact Stations:	Turbidity (NTU)	2 tides/day	depth & bottom)
TM-FM1 and TM-FM2	Salinity (ppt)		
	Suspended solids (mg/L)		

Table 5.1 Monitoring Parameters and Frequency of the marine water



5.4 Monitoring Methodology and Equipment Used

For Location of the monitoring stations

Global Positing System (GPS)

A hand-held digital GPS was used to identify the designated monitoring stations prior to water sampling.

For Water Depth measurement

Echo Sounder

A portable, battery-operated echo sounder was used for the determination of water depth at each designated monitoring station.

For In-situ Water Quality Measurement

All in-situ monitoring instruments were checked, calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use, and subsequently recalibrated at 3 monthly intervals or sometimes longer throughout all stages of the water quality monitoring.

Dissolved Oxygen, Salinity, Turbidity and Temperature Measuring Equipment

A portable, weatherproof multiparameter water quality meter (YSI Pro DSS) which complete with cable, sensor and DC power source were used for measuring DO, turbidity, salinity, pH and temperature:

■a dissolved oxygen level in the range of 0 to 50 mg/L and 0-500 % saturation;

- ■a turbidity in range 0-4000 NTU;
- ■a salinity in range 0-70 ppt;
- ■a temperature of -5-70 degree Celsius

A membrane electrode with automatic temperature compensation complete with a cable was installed.

For Water Sampling and Sample Analysis

In-situ monitoring was carried out at three depths: 1 meter below water surface, at mid-depth and 1 meter above the seabed. At each sampling depth, duplicate readings of dissolved oxygen content and turbidity were taken. The probes were drop into water, two consecutive measurements of dissolved oxygen (DO), dissolved oxygen saturation (DOS), turbidity and salinity were taken. The difference between the two readings of each set was more than 25% of the value of the first reading while a third measurement would be conducted to ensure data precision.

Water Sampler

A water sampler comprising a transparent PVC cylinder, with a capacity of not less than 2 liters, was lowered into the water body at the predetermined depth. The both opening ends of the sampler were then closed accordingly by dead weight and water samples were collected.

Water Container

The sample container, made by high-density polythene, was rinsed with a portion of the water sample. The water sample was then transferred to the container, labeled with a unique sample ID and sealed with a screw cap. The water samples were stored in a cool box maintained at 4°C. The water samples were then delivered to a local HOKLAS-accredited laboratory (Environmental Laboratory, ETS-Testconsult Ltd, HOKLAS Registration No. 022) on the same day for analysis.

The summary of testing method of testing parameter as recommended by EIA or required by EPD, with the QA/QC results in accordance with the requirement of HOKLAS or international accredited scheme is shown in Table 5.2. For the QA/QC procedures, one QC sample, one duplicate sample



and one sample spike of every batch of 20 samples were analysis. The QA/QC results are summarized in Appendix N.

Laboratory Analysis	Testing Procedure	Detection Limit
Total suspended solids	In house method based on APHA 19 th ed 2540D	1.0 mg/L

In-situ measurement

All in-situ monitoring instruments were checked, calibrated and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use. Responses of sensors and electrodes were checked with certified standard solutions before each use. The DO sensor was calibrated by wet bulb method and a zero check in distilled water was performed with the turbidity and salinity sensor before the strat of measurement.

At each measurement/sampling depth, two consecutive measurements of dissolved oxygen (DO), dissolved oxygen saturation (DOS), turbidity and salinity were taken. For DO, DOS, Turbidity and Salinity, measurements were conducted three days per week at both mid-ebb and mid-flood tides at three depths (i.e. 1m below surface, mid depth and 1m from seabed). The duplicate measurements were averaged if the difference was not greater than 25%. If the difference is greater than 25%, repeat measurement will be required to be carried out.

Table 5.3 shows the equipment used for in-situ monitoring of water quality. The calibration certificates are attached in Appendix C1.

			ng Equipment (in elle mee	1
Parameter	Model	Date of Calibration	Due Date	Equipment No.
Coordinate of Monitoring stations	Garmin eTrex 10			ET/EW/005/09
Dissolved Oxygen (Saturation), Temperature, Salinity, Turbidity	YSI Pro DSS Multiparameter Water Quality Meter	31/08/23	30/11/23	ET/EW/008/010*
Water Depth	Speedtech SM- 5			ET/EW/002/08

 Table 5.3
 Details of Marine Water Quality Monitoring Equipment (In-site measurement)

Remark: Indicates the instrument should be calibrated on site.

5.5 Action and Limit Levels

The water quality criteria, namely Action and Limit (A/L) levels are presented in the table below.

Parameter	Action Level	Limit Level
DO (mg/L)	Surface & Middle	Surface & Middle
	<4.78 mg/L (5%-ile of baseline data)	<4.00 mg/L (1%-ile of baseline data)
	<u>Bottom</u>	<u>Bottom</u>
	<4.16 mg/L (5%-ile of baseline data)	<2.00 mg/L
SS (mg/L)	>120% of the upstream control station's	>130% of the upstream control station's
(Depth-	SS at the same tide on the same day	SS at the same tide on the same day
averaged)		
Turbidity (NTU)	>120% of the upstream control station's	>130% of the upstream control station's
(Depth-	turbidity at the same tide on the same	turbidity at the same tide on the same
averaged)	day	day

Table 5.4Water Quality Action and Limit Levels



5.6 **Event and Action Plan**

Please refer to the Appendix F for details.

5.7 Monitoring Duration and Period in this reporting period

Table 5.5 is the time schedule for the marine water quality monitoring events that were conducted in this reporting period. Duration of marine water quality monitoring is detailed in Appendix C2.

			October-20)23			
Sunday	Monday	Tuesday	Wednesda	y Thursday	Friday	Saturday	
1	2	3	▼ 4	5	v ⁶	7	•
8	9	10	▼ 11	12	▼ ¹³	14	
15	16	▼ 17	18	1 9 ▼	20	2 1	
22	23	24	₹25 ▼	26	v ²⁷	28	T
29	30	31	•				

Remark: $(\mathbf{\nabla}) =$ Marine water quality monitoring carried out by ET *Water quality monitoring on 02/09/2023 was rescheduled to 03/09/2023 due to the adverse weather condition (The Tropical Cyclone Signal No.8).

5.8 **Marine Water Quality Monitoring Results**

The impact water quality measurement results are detailed in Appendix C2. Appendix C3 presents the water quality monitoring data and graphical presentations of monitoring results respectively. The summary of marine water quality exceedances is shown in Table 5.6.

1 4010 0.0	Burning of Marine Water Quality Exceedances in this reporting period						
		Exceedance	D	0			
Tide Statio	Station	Level	Surface & Middle	Bottom	Turbidity	SS	Total
	TM-FM1	Action	0	0	0	0	0
Mid-Ebb	1101-1-1011	Limit	0	0	0	0	0
WIIQ-EDD	TM-FM2	Action	0	0	0	0	0
		Limit	0	0	0	0	0
Mid-	TM-FM1	Action	0	0	0	0	0
	1101-1-1011	Limit	0	0	0	0	0
Flood	TM-FM2	Action	0	0	0	0	0
		Limit	0	0	0	0	0
Т	Total		0	0	0	0	0
70			0	0	0	0	0

Table 5.6 Summary of Marine Water Quality Exceedances in this reporting period

According to the summary of marine water monitoring results, no exceedance of action and limit level was recorded in this reporting month.

6.0 **Noise Monitoring**

6.1 **Monitoring Requirements**

Noise monitoring was conducted at 2 designated monitoring stations as specified in the Sections 25.10A of the Particular Specification for good site practice.

The equipment, parameter, frequency, duration, methodology, calibration details, results and observations of the noise monitoring for the reporting month are presented in this section.



6.2 Monitoring Equipment

An Integrating Sound Level Meter was used for noise monitoring. It was a Type 1 sound level meter capable of giving a continuous readout of the noise level reading including equivalent continuous sound pressure level (L_{eq}) and percentile sound pressure level (Lx). It complies with International Electro Technical Commission Publications IEC 61672 Type 1 specification, and speed in m/s was used to monitor the wind speed.

Table 6.1 summarizes noise monitoring equipment model being used. A copy of the calibration certificate for noise meter and calibrator are attached in Appendix D1.

Table 6.1 N	loise Monitoring Equipment	
-------------	----------------------------	--

Equipment	Model		
Sound Level Meter	Rion NL-52 / Rion NL-31		
Calibrator	Rion NC-73		

6.3 Monitoring Parameters, Duration and Frequency

Duration, frequencies and parameters of noise measurement are presented in Table 6.2.

Time period	Duration/min	Parameters	Frequency
Day-time: 0700-1900 hrs on normal weekday	30	L _{eq} , L ₁₀ , L ₉₀	Twice per week

6.4 Monitoring Locations and Period

Since Lands Dept did not approve to carry out noise monitoring at their own area where the noise monitoring stations TM-N1 and TM-N2 located due to the security, noise monitoring carried out at two noise monitoring stations TM-RN1 and TM-RN2 (refer to the figure 3 attached) from 18 December 2007.

The noise monitoring locations, TM-RN1 and TM-RN2 are shown in Figure 3. The noise measurement at TM-RN1 and TM-RN2 are façade measurement.

The noise-monitoring period of monitoring stations is summarized in Appendix D2.

6.5 Monitoring Procedures and Calibration Details

Operation/Analysis Procedures

- The Sound Level Meter was set on a tripod at a height of 1.2m above the ground.
- For free field measurement, the meter was positioned away from any nearby reflective surfaces.
- The battery condition was checked to ensure the correct 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
 - Time measurement : 30 min
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94 dB at 1000HZ. If the difference in the calibration level before and after measurement was more than 1dB, the measurement would be considered invalid and repeat measurement would be required after re-calibration or repair of the equipment.
- The wind speed was frequently checked with a portable wind meter.
- During the monitoring period, the Leq, L10 and L90 were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Free Field correction to the measurements should be made. Correction factor of +3dB(A) should be made to the free Field measurements. Noise monitoring would be cancelled in the presence of fog, rain, wind with a steady speed exceeding 5m/s, or wind gusts exceeding 10m/s.



Maintenance and Calibration

- The microphone head of the sound level meter and calibrator are cleaned with soft cloth in quarterly intervals.
- The meter is sent to the supplier or HOKLAS laboratory to check and calibrated in yearly intervals.

6.6 Action and Limit Levels

The Action and Limit levels for noise levels derived as illustrated in Table 6.3.

Table 6.3 Action and Limit Levels for noise monitoring

Time Period	Action	Limit
0700-1900 hrs on normal weekdays	When one documented complaint is received	65 dB(A)

6.7 Event-Action Plans

Please refer to the Appendix F for details.

6.8 Results and Observation

The detail of the noise monitoring is provided in Appendix D2. Graphical presentation of the monitoring result for the reporting period is shown in Appendix D3.

Since no documented complaint on noise issue was received in this reporting period, no Action Level exceedance was recorded. Besides, no exceedance in Limit Level was recorded according to the result from Day-time noise monitoring.

The major sources of noise pollution observed in this reporting month were noise from the traveling dump trucks and from the operation of site machines.

7.0 ENVIRONMENTAL AUDIT

7.1 Weekly ET Site Inspections and EPD's Site Inspection

7.1.1 Weekly ET Site Inspections

Weekly site inspections were carried out by ET to monitor the timely implementation of proper environmental pollution control and mitigation measures for the Project. In this reporting month, four weekly site inspections were conducted on 05, 12, 19, 26 and 30 October 2023. Summaries of key findings of weekly ET site inspections in this month are described in Table 7.1.

	Key Findings of Weekly ET Site inspections in this reporting month				
Date	Key Findings	Action(s) Taken	Action(s) Taken by	Rectification	
		recommended by ET	the Contractor	Status by ET	
			during the site audit		
05					
October	No defective work or obse	ervation was recorded durir	ng the weekly ET site i	inspection	
2023					
12					
October	No defective work or obse	ervation was recorded durir	ng the weekly ET site i	inspection	
2023					
19					
October	No defective work or obse	ervation was recorded duri	ng the weekly ET site	inspection	
2023					
26					
October	No defective work or obse	ervation was recorded duri	ng the weekly ET site	inspection	
2023					
30					
October	No defective work or obse	ervation was recorded duri	ng the weekly ET site	inspection	
2023				-	

Table 7.1 Key Findings of Weekly ET Site Inspections in this reporting month



7.1.2 The State of Air Quality Control of 3RS area in TMFB

As there was the concern about the dust emission in the 3RS collection area of TMFB, EPD arranged a joint site inspection on 06 October 2022 and the contractor carried out mitigation measures, including increasing the frequency of water spraying by water lorries, setting up water spraying machine in the 3RS area and providing cleaning at the site haul road, to minimize the dust emission. The location of 3RS and discharge point would be inspected in every weekly environmental audit.

7.1.3 EPD's Site Inspection

EPD's site inspection was carried out on 03 October 2023.

7.2 Review of Environmental Monitoring Procedures

The monitoring works conducted by the ET were inspected internally on a regular basis. The following observations have been recorded for the monitoring works:

Air Quality Monitoring

- The monitoring team recorded the observations around the monitoring stations within and outside of the construction site.
- The monitoring team recorded the temperature, air pressure and general weather condition on the monitoring day.

Water Quality Monitoring

- The monitoring team recorded the observations around the monitoring stations, which might affect the results; and
- Major water pollution sources were identified and recorded.

Noise Monitoring

- The monitoring team recorded the observations around the monitoring station, which might affect the results.
- Major noise sources were identified and recorded.

7.3 Status of Environmental Licensing and Permitting

All permits/licenses valid in this reporting month are summarized in Table 7.2.

Description	Permit No.	Valid	Period	Section
		From	То	
Environmental Permit	EP- 210/2005/E	22/12/21	31/12/23	Issued
Chemical Waste Registration	5296-421- C1186-33	20/04/17		Spent battery containing heavy metals and spent lubricating oil
Effluent Discharge License	WT0004275 5-2022	21/02/23	29/02/28	Effluent arising from vehicle washing and dust suppression activities and contaminated surface runoff treated by screening facilities and sedimentation tanks (sedimentation and chemical precipitation).
Marine Dumping Permit	EP/MD/24- 028	01/09/23	31/12/23	Approval for dumping 499,999 tons (approximately equal to 277,777 cu.m. bulked quantity) of Public Fill (Reclamation Materials) from Tseung Kwan O Area 137 Fill Bank and Tuen Mun Area 38 Fill Bank to designated dumping area at Guanghaiwan of Taishan

Table 7.2 Summary of environmental licensing and permit status



Billing Account for Waste Disposal	7042821	22/05/17	
Notification Pursuant to Section 3(1) of the Air Pollution Control (Construction Dust)	475208	12/04/17	

7.4 Implementation Status

7.4.1 Implementation Status of Environmental Mitigation Measures

An updated summary of the Environmental Mitigation Implementation Schedule (EMIS) is presented in Appendix I. Most of the necessary mitigation measures were implemented properly.

7.4.2 Implementation Status of Event and Action Plan

No exceedance of Action and Limit levels was recorded for 1-hr and 24-hr TSP monitoring in the reporting month. Apart from this, there was no exceedance on noise recorded in this month.

According to the marine water monitoring results, no action-level and limit-level exceedance was recorded in this reporting period.

Hence, no further action was required to be implemented.

7.4.3 Implementation Status of Environmental Complaint, Notification of Summon and Successful Prosecution Handling

No complaint, notification of summon and prosecution with respect to environmental issues was received in this reporting period.

A summary of environmental complaints, notifications of summons and successful prosecutions was given in Table 7.3.

Γ	Complaints	logged	Summons s	served	Successful Prosecution			
	October 2023 Cumulative		October 2023	Cumulative	October 2023	Cumulative		
	0	0 7		0	0	0		

 Table 7.3
 Summary of Environmental Complaints and Prosecutions

8.0 LANDSCAPE AND VISUAL

Landscape and visual site audit was carried out on a weekly basis to monitor environmental issues in order to ensure that all mitigation measures were implemented timely and properly. The findings in this reporting period were:

- The maximum stockpiling height at the Fill Bank was limited to a maximum of +40 mPD;
- The Contractor hydroseeded the outer slopes of the Fill Bank as far as practicable;
- The Contractor removed the stockpile of public fill in a sequence to allow the outer hydroseeded to be removed later than other portions as far as practicable; and
- Lighting was set to minimize night-time glare.

9.0 WASTE MANAGEMENT

9.1 Summary of Waste disposed of in this period

The actual amounts of different types of waste disposed of by the activities of the Project in the period are shown in Table 9.1 and the Monthly Summary Waste Flow Table is shown in Appendix K.



	<u> </u>	0
Waste Type	Actual Amount	Disposal Locations
Public Fill ('000m³)	0	Tuen Mun 38 Fill Bank
C&D Waste (Others – e.g. general refuse) ('000kg)	39.61	WENT Landfill
Chemical Waste (kg)/(L)	0(L)	Collected by licensed collector

Table 9.1 Actual amounts of Waste generated in this reporting month

9.2 Advice on the Solid and Liquid Waste Management Status

The Contractor should provide sufficient preventive measures during equipment maintenance works so as to avoid oil leakage on the ground. In the event of any oil leakage, the Contractor should clean up the polluted soil and handle all the materials used for this cleaning works as chemical waste.

The drain outlet of all the bunded areas should be plugged properly. Besides, pre-cast drip trays were provided for oil drums at several areas, such as workshop and chemical storage area. The Contractor should collect and dispose of any stagnant water accumulated in the concrete bunding and drip trays and handle them as chemical waste.

The Contractor should use suitable containers with proper labels to store chemical wastes in accordance with Code of Practice on the Packaging, Labeling and Storage of Chemical Waste. The Contractor should also advise their workers of the proper procedures in handling the chemical waste. All the trip tickets for chemical waste disposal should be properly kept in the site office.

The Contractor was reminded to increase the frequency of inspection and cleaning of the site drainage system, including permanent desilting chambers, desilting facilities, oil interceptor bypass tank and all the trapezoidal channels. Moreover, the Contractor should apply approved pesticides in the stagnant water ponds.

All the runoff from the parking area should be pumped to the desilting facilities and oil interceptors to remove suspended solids and oil & grease prior to discharge.

All the discharge measures were managed under Effluent Discharge License. No discharge is allowed before the approval of discharge permit.

10.0 ENVIRONMENTAL NON-CONFORMANCE

10.1 Summary of air quality, noise and marine water quality

No exceedance of Action and Limit level was recorded for 1-hr and 24-hr TSP monitoring in the reporting period.

According to the marine water monitoring results, no action-level and limit-level exceedance was recorded in the reporting period.

The noise level measured at the monitoring station complied with the Limit Level of 65dB(A). No complaint was received regarding noise issue in this reporting period.

10.2 Summary of Environmental Complaints

No complaint was received in this reporting period.

10.3 Summary of Notification of Summons and Prosecution

There was no notification of summon and prosecution respect to environmental issues registered in this reporting period.

11.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

Impact monitoring of air quality, noise and water quality were carried out at designated locations in this reporting period.

According to the summary of air monitoring results, no exceedance of Action and Limit levels was recorded for 1-hr and 24-hr TSP monitoring in the reporting period.

According to the marine water monitoring results, no action-level and limit-level exceedance was recorded in the reporting period.

The noise level measured at the monitoring station complied with the Limit Level of 65dB(A). No complaint was received regarding noise issue in this reporting period.

According to the weekly site inspections carried out in this reporting period, the Contractor generally implemented sufficient dust mitigation measures, including operation of the mist spraying systems and automatic wheel washing facilities, dampening of haul roads and stockpiling areas.

No complaint, prosecution or notification of summons was received in this reporting period.

Recommendations

According to the environmental site inspections performed in the reporting period, the following recommendations were provided:

Air Quality

- Ensure the frequency of water spraying on haul roads, unloading areas and stockpiles to be sufficient to suppress the dust sources;
- Provide proper maintenance for the powered mechanical equipment and barges to avoid emission of dark smoke;
- Provide water spraying onto the truckloads during inspection of fill material;
- Conduct road sweeping on all paved haul roads and public roads especially outside and near the site egress by the road sweeper. Undertake water spraying on stockpiling area by water bowser;
- Erect adequate speed limit signs to advise the truck drivers of the speed limit;
- Operate mist spraying systems and automatic water sprinklers in the Fill Bank;
- Implement the dust mitigation measures for the construction activities;
- Designate proper haul roads to ensure effective water spraying; and
- Ensure all vehicles to be washed before leaving the site egress by provision, operation and maintenance of automatic wheel washing facilities.

Noise

- Conduct noisy activities at a farther location from the NSRs.
- Proper schedule of noisy operation and use of quiet machineries on site.

Water Quality

- Maintain the drainage system, including the trapezoidal channels and permanent desilting chambers regularly; and
- Remove the stagnant water or provide approved pesticides for the stagnant water in the permanent desilting chambers, if any.

Chemical and Waste Management

- Remove waste materials from the site to avoid accumulation regularly;
- Handle and store chemical wastes properly;
- Remove unwanted material in the existing stockpiles and avoid further dumping of such material;
- Provide and maintain sufficient drip trays for diesel drums, chemical containers, chemical waste storage drums and diesel operated generator set;
- Maintain good housekeeping at the workshop area;
- Ensure sufficient tarpaulin sheets are provided to cover drip trays; and
- Avoid soil being polluted during oil filling and equipment maintenance; hence, properly remove and store the contaminated soil, if any.

Landscape and Visual

Provide hydroseeding on the exposed slopes, on which the final profile has been formed;



- Erect all the site hoarding/chaining fences in accordance with agreed design at proper location;
- Maintain the hydroseeded slopes properly.

12.0 FUTURE KEY ISSUES

Based on the site inspections and forecast of engineering works in the coming month, key issues to be considered are as follows:

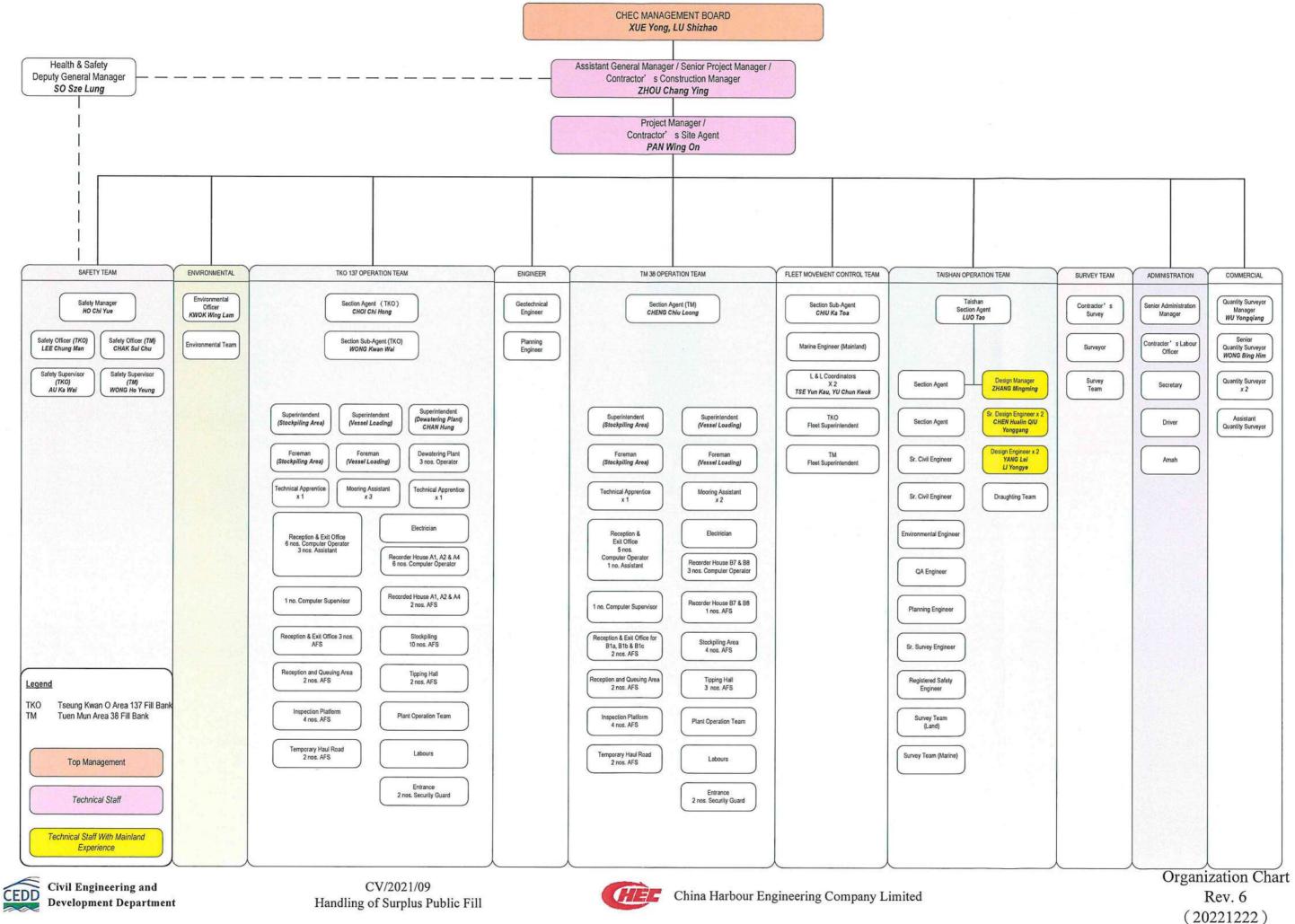
- Dust generation from activities on site, such as vehicular movements along unpaved area and rock crushing activities;
- Noise impact from operating equipment and machinery on site;
- Wastewater and surface runoff from the site discharged into nearby water body;
- Regular checking of the drainage system;
- Flood prevention; and
- Noise from operation of the crushing plant.

- END OF REPORT -



Appendix A

Project Organization Chart







Appendix B1

Calibration Certificates for Impact Air Quality Monitoring Equipments



RECALIBRATION DUE DATE:

January 17, 2024

i*ficate d* Salibration **Calibration Certification Information** °К Ta: 294 Rootsmeter S/N: 438320 Cal. Date: January 17, 2023 Pa: 741.4 mm Hg Operator: Jim Tisch Calibrator S/N: 4128 Calibration Model #: TE-5025A ΔH Vol. Init Vol. Final ΔVol. **ATime** ΔΡ (in H2O) (mm Hg) (m3) (min) Run (m3) (m3) 2.00 1.4370 3.2 1 2 1 1 4.00 3 4 1 1.0170 6.4 2 0.9140 8.0 5.00 3 6 1 5 5.50 0.8640 8.8 4 7 8 1 5 9 10 1 0.7170 12.8 8.00 **Data Tabulation** ΔH(Pa)(Tstd) /ΔH(Ta/Pa Qa Qstd Vstd (y-axis) (x-axis) Va (x-axis) (m3) (y-axis) 0.9957 0.6929 0.8905 0.6852 1.4063 0.9846 0.9914 0.9748 1.2594 0.9803 0.9639 1.9888 1.4081 1.0702 2.2235 0.9892 1.0823 0.9782 1.4768 0.9881 1.1437 0.9771 1.1309 2.3321 1.7811 0.9718 1.3553 2.8126 0.9827 1.3706 1.31296 2.09676 m= m= -0.01917 -0.03027b= b= OA OSTD 0.999910.99991 r= r= Calculations $Va=\Delta Vol((Pa-\Delta P)/Pa)$ Vstd= $\Delta Vol((Pa-\Delta P)/Pstd)(Tstd/Ta)$ Qa= Va/ATime Qstd= Vstd/ATime For subsequent flow rate calculations: Pa Tstd ΔH(Ta/Pa Qa= 1/m Qstd= 1/m AH Pstd Ta **Standard Conditions** RECALIBRATION 298.15 °K Tstd: Pstd: 760 mm Hg US EPA recommends annual recalibration per 1998 Key 40 Code of Federal Regulations Part 50 to 51, ΔH: calibrator manometer reading (in H2O) Appendix B to Part 50, Reference Method for the ΔP: rootsmeter manometer reading (mm Hg) Ta: actual absolute temperature (°K) Determination of Suspended Particulate Matter in Pa: actual barometric pressure (mm Hg) the Atmosphere, 9.2.17, page 30 b: intercept

Tisch Environmental, Inc. 145 South Miami Avenue

m: slope

Village of Cleves, OH 45002

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



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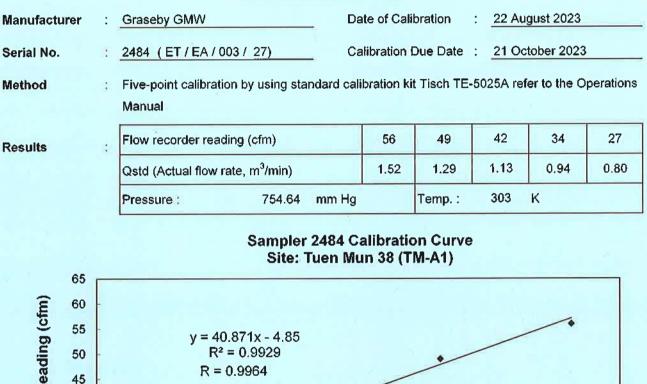
T: +652 2695 8318 F: +052 2695 3944 E: eti@ets-testconsult.com W: www.ets-testconsult.com

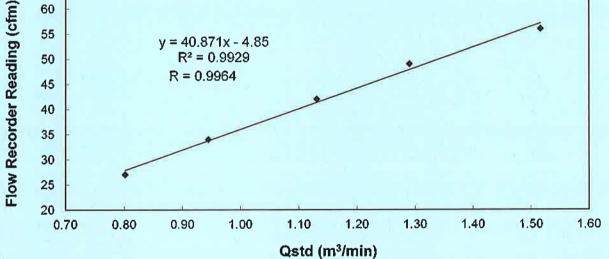
TEST REPORT

Calibration Report

of

High Volume Air Sampler





Acceptance Criteria : Correlation coefficient (r) of the calibration curve greater than 0.990 after a 5-point calibration

The high volume sampler complies* / does not comply* with the specified requirements and is deemed acceptable*/ unacceptable* for use.

Calibrated by

MAK, Kei Wai

(Assistant Supervisor)

Checked by 🗧

LAU, Chi Leung (Environmental Team Leader)

- END OF REPORT -



TEST REPORT

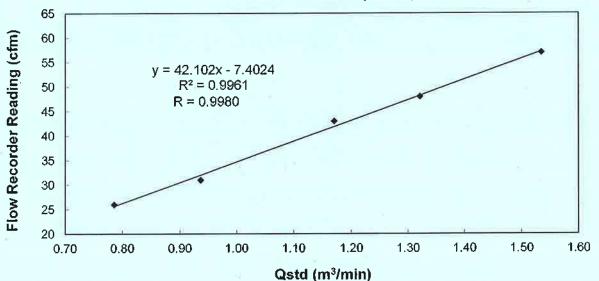
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Calibration Report of **High Volume Air Sampler** Graseby GMW Date of Calibration 21 October 2023 Manufacturer 2 ٠ Calibration Due Date : 20 December 2023 2484 (ET/EA/003/27) Serial No. Five-point calibration by using standard calibration kit Tisch TE-5025A refer to the Operations Method • Manual 43 48 31 57 Flow recorder reading (cfm) Results ÷

26 1.17 0.94 0.79 1.53 1.32 Qstd (Actual flow rate, m³/min) 763.86 296 Κ Pressure : mm Hg Temp. :

Sampler 2484 Calibration Curve Site: Tuen Mun 38 (TM-A1)



Acceptance Criteria : Correlation coefficient (r) of the calibration curve greater than 0.990 after a 5-point calibration

The high volume sampler complies* / does not comply* with the specified requirements and is deemed acceptable*/ unacceptable* for use.

Calibrated by

MAK, Kei Wai (Assistant Supervisor)

Checked by LAU, Chi Leung

- END OF REPORT -

(Environmental Team Leader)



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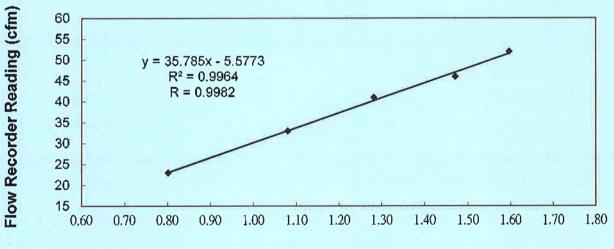
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TEST REPORT

<u>Calibration Report</u> of <u>High Volume Air Sampler</u>

Manufacturer	:	Graseby GMW Da	ate of Calib	ration	00	22 August 2023				
Serial No.	14.0	1180 (ET / EA / 003 / 04) Calibration Due Date : 21 October 2023								
Method	1	Based on Operations Manual for the 5-poi manufactured by Tisch TE-5025 A	int calibratio	n using sta	anda	ard cal	libration kit			
Results	ţ.	Flow recorder reading (cfm)	52	46		41	33	23		
		Qstd (Actual flow rate, m ³ /min)	1.60	1.47	1	.28	1.08	0.80		
		Pressure: 754.64 mm Hg	5	Temp. :	:	303	К			

Sampler 1180 Calibration Curve Site: Tuen Mun (TM-RA2)



Qstd (m3/min)

Acceptance Criteria : Correlation coefficient (r) of the calibration curve greater than 0.990 after a 5-point calibration

The high volume sampler complies* / does not comply* with the specified requirements and is deemed acceptable* / unacceptable * for use.

Calibrated by :

Wai

MAK, Kei Wai (Assistant Supervisor)

Checked by

LAU, Chi Leung (Environmental Team Leader)

- END OF REPORT -



TEST REPORT

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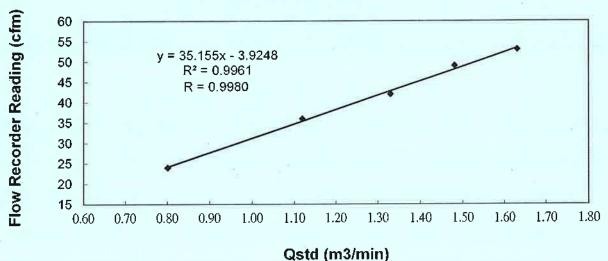
Calibration Report of **High Volume Air Sampler** Graseby GMW Date of Calibration 21 October 2023 Manufacturer * 2 20 December 2023 Calibration Due Date Serial No. 1180 (ET/EA/003/04) 1 Based on Operations Manual for the 5-point calibration using standard calibration kit 1 manufactured by Tisch TE-5025 A

Results

Method

Flow recorder read	ding (cfm)		53	49	42	36	24
Qstd (Actual flow	rate, m ³ /min)		1.63	1.48	1.33	1.12	0.80
Pressure :	763.86	mm Hg	10	Temp. :	296	К	

Sampler 1180 Calibration Curve Site: Tuen Mun (TM-RA2)



Acceptance Criteria : Correlation coefficient (r) of the calibration curve greater than 0.990 after a 5-point calibration

The high volume sampler complies* / does not comply* with the specified requirements and is deemed acceptable* unacceptable * for use.

Wa Calibrated by :

MAK, Kei Wai (Assistant Supervisor)

Checked by LAU, Chi Leung (Environmental Team Leader)

- END OF REPORT -



Appendix B2

Impact Air Quality Monitoring Results



Summary of 24-hr TSP Monitoring Results

Sta	art	Finish		Elapse Time		Sampling	Flow Rate (m ³ /min.)		Average	Filter Weight (g)		$C_{2222} \left(u_{12} (m^3) \right)$
Date	Time	Date	Time	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	Conc. (μg/m ³)
04/10/23	11:00	05/10/23	11:00	16918.31	16942.31	24.00	0.9016	0.9016	0.9016	3.2435	3.3279	65
10/10/23	11:00	11/10/23	11:00	16945.31	16969.31	24.00	0.9016	0.9016	0.9016	3.0649	3.1532	68
16/10/23	08:30	17/10/23	08:30	16972.31	16996.31	24.00	0.9261	0.9261	0.9261	2.5897	2.6871	73
22/10/23	09:30	23/10/23	09:30	16999.31	17023.31	24.00	0.9596	0.9596	0.9596	3.0634	3.1560	67
28/10/23	11:00	29/10/23	11:00	17026.31	17050.31	24.00	0.9834	0.9834	0.9834	2.5746	2.6666	65

Monitoring Station : TM-A1

Monitoring Station

: TM-RA2

Sta	art	Fin	ish	Elapse	e Time	Sampling	Flow Rate	(m ³ /min.)	Average	Filter W	/eight (g)	Conc. (μg/m ³)
Date	Time	Date	Time	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	Conc. (µg/m)
04/10/23	11:10	05/10/23	11:10	32205.53	32229.53	24.00	1.0780	1.0780	1.0780	3.1463	3.2519	68
10/10/23	11:10	11/10/23	11:10	32232.53	32256.53	24.00	1.0780	1.0780	1.0780	3.1976	3.3078	71
16/10/23	08:30	17/10/23	08:30	32259.53	32283.53	24.00	1.1060	1.1060	1.1060	2.5915	2.7094	74
22/10/23	09:40	23/10/23	09:40	32286.53	32310.53	24.00	1.0219	1.0219	1.0219	3.2226	3.3315	74
28/10/23	11:10	29/10/23	11:10	32313.53	32337.53	24.00	1.0503	1.0503	1.0503	2.5598	2.6642	69



Summary of 1-hr TSP Monitoring Results

Monitoring	g Station	:	ТМ	-A1							
Date	Time		Elapse Time		Sampling	Flow Rate (m ³ /min.)		Average	Filter W	$C_{\rm ope}$ $(\mu q/m^3)$	
Dale	Start	Finish	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	Conc. (µg/m ³)
02/10/23	09:30	10:30	16917.31	16918.31	1.00	0.9016	0.9995	0.9016	3.2087	3.2180	172
05/10/23	13:30	14:30	16942.31	16943.31	1.00	0.9016	0.9750	0.9016	3.2056	3.2155	183
05/10/23	15:00	16:00	16943.31	16944.31	1.00	0.9016	0.9016	0.9016	3.1587	3.1687	184
06/10/23	08:30	09:30	16944.31	16945.31	1.00	0.9016	0.9016	0.9016	3.1962	3.2057	175
12/10/23	09:30	10:30	16969.31	16970.31	1.00	0.9261	0.9261	0.9261	3.1605	3.1698	168
12/10/23	11:00	12:00	16970.31	16971.31	1.00	0.9261	0.9261	0.9261	3.1600	3.1692	166
14/10/23	09:00	10:00	16971.31	16972.31	1.00	0.9261	0.9261	0.9261	2.6159	2.6256	175
17/10/23	09:30	10:30	16996.31	16997.31	1.00	0.9261	0.9261	0.9261	2.5940	2.6041	182
17/10/23	13:00	14:00	16997.31	16998.31	1.00	0.9261	0.9261	0.9261	2.6054	2.6157	185
19/10/23	09:30	10:30	16998.31	16999.31	1.00	0.9261	0.9261	0.9261	3.1799	3.1901	183
24/10/23	09:30	10:30	17023.31	17024.31	1.00	0.9596	0.9596	0.9596	3.1521	3.1622	175
24/10/23	11:00	12:00	17024.31	17025.31	1.00	0.9834	0.9834	0.9834	3.0209	3.0315	180
26/10/23	09:30	10:30	17025.31	17026.31	1.00	0.9834	0.9834	0.9834	2.5713	2.5816	175
31/10/23	13:00	14:00	17050.31	17051.31	1.00	0.9834	0.9834	0.9834	3.1719	3.1818	168
31/10/23	14:00	15:00	17051.31	17052.31	1.00	0.9834	0.9834	0.9834	3.0434	3.0534	170



Summary of 1-hr TSP Monitoring Results

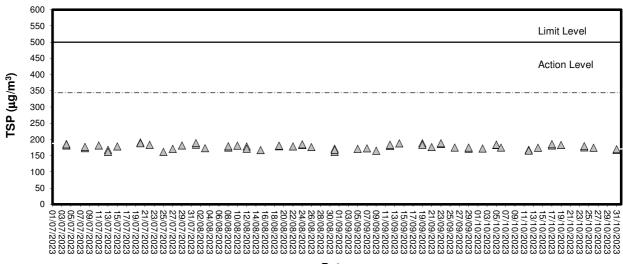
Monitoring	g Station	:	TM-	RA2							
Date	Tir	Time		Elapse Time		Flow Rate (m ³ /min.)		Average	Filter W	C_{222} (u_{π}/m^3)	
Dale	Start	Finish	Initial	Final	Time (hrs)	Initial	Final	(m³/min.)	Initial	Final	Conc. (µg/m ³)
02/10/23	09:40	10:40	32204.53	32205.53	1.00	1.0780	1.0780	1.0780	3.1766	3.1879	174
05/10/23	13:40	14:40	32229.53	32230.53	1.00	1.0780	1.0780	1.0780	3.2741	3.2862	187
05/10/23	15:10	16:10	32230.53	32231.53	1.00	1.0780	1.0780	1.0780	3.1705	3.1827	188
06/10/23	08:30	09:30	32231.53	32232.53	1.00	1.0780	1.0780	1.0780	3.1582	3.1698	179
12/10/23	09:40	10:40	32256.53	32257.53	1.00	1.1060	1.1060	1.1060	3.1669	3.1783	172
12/10/23	11:10	12:10	32257.53	32258.53	1.00	1.1060	1.1060	1.1060	3.2029	3.2140	168
14/10/23	09:10	10:10	32258.53	32259.53	1.00	1.1060	1.1060	1.1060	2.6228	2.6345	177
17/10/23	09:40	10:40	32283.53	32284.53	1.00	1.1060	1.1060	1.1060	2.5914	2.6037	186
17/10/23	13:00	14:00	32284.53	32285.53	1.00	1.1060	1.1060	1.1060	2.6155	2.6279	187
19/10/23	09:40	10:40	32285.53	32286.53	1.00	1.1060	1.1060	1.1060	3.0557	3.0682	189
24/10/23	09:40	10:40	32310.53	32311.53	1.00	1.0219	1.0219	1.0219	3.1978	3.2088	179
24/10/23	11:10	12:10	32311.53	32312.53	1.00	1.0503	1.0503	1.0503	3.0451	3.0566	182
26/10/23	09:40	10:40	32312.53	32313.53	1.00	1.0503	1.0503	1.0503	2.5780	2.5893	179
31/10/23	13:10	14:10	32337.53	32338.53	1.00	1.0503	1.0503	1.0503	3.4040	3.4149	173
31/10/23	14:10	15:10	32338.53	32339.53	1.00	1.0503	1.0503	1.0503	3.0819	3.0929	174



Appendix B3

Graphical Plots of Impact Air Quality Monitoring Data

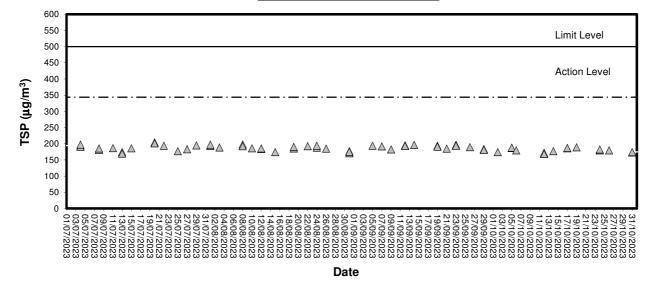




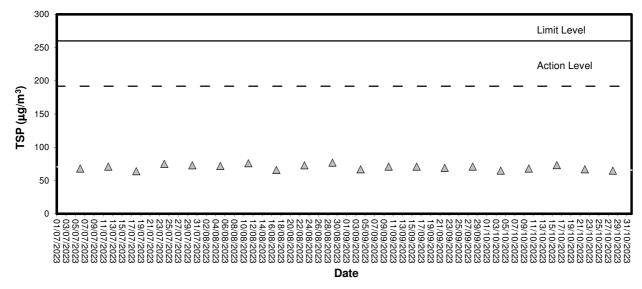
1-hour TSP level at TM-A1

Date

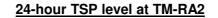
1-hour TSP level at TM-RA2

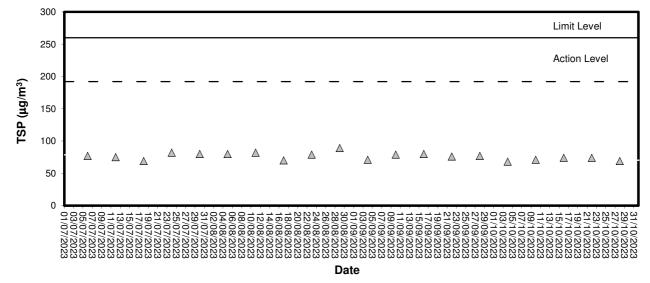






24-hour TSP level at TM-A1







Appendix C1

Calibration Certificates for Impact Marine Water Quality Monitoring Equipments



Performance Check / Calibration of Multiparameter Water Quality Meter

Equipment Ref. No.		ET/EW/008/010	Manufacturer	3	YSI
Model No.	:	Pro DSS	Serial No.	2	18E105421
Date of Calibration		31/8/2023	Calibration Due Date	:	30/11/2023

<u>Results</u>

1. Temperature

(Method Reference: Section 6 of internation Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure)

Reading of Reference Thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)
15.6	15.5	-0.1
25.1	25.0	-0.1
29.3	29.6	0,3

Tolerance Limit (°C): ± 2.0

2. pH

(Method Reference: APHA 19ed 4500-H⁺ B)

Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.00		
6.86		
9.18		

Tolerance Limit (pH unit): ± 0.10

3. Conductivity

(Method Reference: APHA 19ed 2510 B)

Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)
145.2	145.8	+0.4
1414	1409	-0.4
12892	12957	+0.5
56761	56916	+0.3

Tolerance Limit (µS/cm): ± 10.0%

4. Salinity

(Method Reference: APHA 19ed 2520 B)

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
10.0	10.20	+2.0
20.0	19.83	-0.9
30.0	29.91	-0.3

Tolerance Limit (g/L): ± 10.0%



Performance Check / Calibration of Multiparameter Water Quality Meter

Equipment Ref. No. :	ET/EW/008/010	Manufacturer	3 3 3	YSI
Model No.	Pro DSS	Serial No.		18E105421
Date of Calibration	31/8/2023	Calibration Due Date		30/11/2023

5. Dissolved Oxygen

(Method Reference: APHA 19ed 4500-O G)

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
1.73	1.79	+0.06
4.62	4.55	-0.07
5.91	5.94	+0.03

Tolerance Limit (mg/L): ± 0.20

6. Turbidity

(Method Reference: APHA 19ed 2130 B)

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
10	9.9	-1.0
40	40.6	+1.50
100	101.7	+1.70
400	403.8	+0.95

Tolerance Limit (NTU): ± 10.0%

The equipment complies # / does not comply " with the specified requirements and is deemed acceptable # / unacceptable." for use.

[#] Delete as appropriate

Calibrated by :

Cheng, Hei Man

Cheng, Hei Ma (Technician)

Approved by : Guy, Kong Ping Ki (Laboratory Manager) Date: 04 109 12023



Appendix C2

Impact Marine Water Quality Monitoring Results



Monitoring Station : TM-FC1

Data		Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissolv	ved Oxygen	(mg/L)		d Oxygen tion (%)	Tu	rbidity (NT	'U)	Susper	nded Solids	s (mg/L)
Date	Time	Weather Condition		m)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
		28	Surface	1.0	29.3	28.2	28.2	5.68	5.68		86.7	86.7	2.39	2.38		3.3	4.6	
03/10/23	9:47:09	20	Middle	10.1	29.2	28.2 28.8	28.9	5.68 5.56	5.54	5.61	86.7 85.1	84.8	2.37 2.73	2.73	2.66	5.9 5.6	4.6	4.4
00/10/20	5.47.00	/ Fine				29.0 29.6		5.52 5.37			84.5 82.4		2.73 2.90		2.00	3.5 4.1		
			Bottom	19.3	29.2	29.7	29.6	5.35	5.36	5.36	82.1	82.3	2.84	2.87		3.9	4.0	
		28	Surface	1.0	29.6	26.1 26.1	26.1	5.86 5.86	5.86	5.00	88.9 89.0	89.0	1.64 1.60	1.62		3.1 5.1	4.1	
05/10/23	10:48:12		Middle	10.1	29.5	29.0 29.1	29.1	5.35 5.33	5.34	5.60	82.4 82.0	82.2	2.17 2.18	2.18	2.06	2.6 3.0	2.8	3.1
		/ Fine	Bottom	19.2	29.3	30.0 30.3	30.2	5.33 5.19 5.16	5.18	5.18	80.1 79.6	79.9	2.18	2.39		2.9 2.0	2.5	
		27	Surface	1.0	27.7	28.4 28.4	28.4	5.89 5.87	5.88	5.78	87.7 87.4	87.6	3.56 3.59	3.58		2.6 4.0	3.3	
10/10/23	15:00:04		Middle	11.0	27.6	28.5 28.5	28.5	5.68 5.66	5.67	5.76	84.5 84.3	84.4	3.75 3.76	3.76	3.78	2.1 2.6	2.4	3.4
		/ Fine	Bottom	21.1	27.7	28.5	28.5	5.52	5.52	5.52	82.3	82.1	4.01	4.02		4.7	4.7	
						28.6 28.7		5.51 5.68		0.02	82.0 84.4		4.03 3.82			4.6 2.7		
		27	Surface	1.0	27.5	28.7	28.7	5.69	5.69	5.67	84.5	84.5	3.79	3.81		3.7	3.2	
12/10/23	16:00:05		Middle	11.5	27.5	28.7 28.7	28.7	5.65 5.65	5.65		83.9 83.9	83.9	4.46 4.46	4.46	4.36	3.1 4.4	3.8	3.6
		/ Fine	Bottom	22.1	27.5	28.7 28.7	28.7	5.63 5.62	5.63	5.63	83.7 83.5	83.6	4.81 4.83	4.82		5.4 2.2	3.8	
			Surface	1.0	27.3	33.0	33.0	5.72	5.72		86.8	86.8	5.49	5.46		6.2	7.6	
		26				33.0 33.1		5.72 5.70		5.70	86.8 86.5		5.43 6.12			8.9 5.7		
14/10/23	9:22:07	(Fire -	Middle	10.1	27.3	33.1	33.1	5.67	5.69		86.1	86.3	6.15	6.14	6.01	6.2	6.0	6.4
		/ Fine	Bottom	19.1	27.4	33.1 33.1	33.1	5.61 5.60	5.61	5.61	85.2 85.2	85.2	6.44 6.45	6.45		4.8 6.3	5.6	
		26	Surface	1.0	27.3	33.0 33.0	33.0	5.91 5.91	5.91		89.8 89.8	89.8	2.64 2.67	2.66		6.1 7.6	6.9	
16/10/23	9:52:16	20	Middle	10.2	27.3	33.0	33.0	5.89	5.88	5.90	89.4	89.3	3.98	3.97	4.04	4.8	6.0	6.6
		/ Fine	Bottom	19.4	27.3	33.0 33.1	33.1	5.87 5.82	5.82	5.82	89.1 88.3	88.3	3.96 5.48	5.49		7.1 6.8	7.1	1
						33.1 33.1		5.81 6.36		5.62	88.2 95.8		5.50 3.03			7.4 5.8		-
		26	Surface	1.0	26.8	33.1	33.1	6.34	6.35	6.28	95.5	95.7	3.04	3.04	-	7.9	6.9	
18/10/23	10:55:14		Middle	11.4	26.9	33.1 33.1	33.1	6.22 6.21	6.22		93.8 93.6	93.7	3.69 3.64	3.67	3.90	8.4 8.1	8.3	8.0
		/ Fine	Bottom	21.8	26.8	33.1 33.1	33.1	6.16 6.16	6.16	6.16	92.8 92.8	92.8	4.99 5.02	5.01		9.5 8.4	9.0	
			Surface	1.0	26.4	33.0	33.0	6.45	6.44		96.4	96.3	3.38	3.41		4.9	4.2	
		25				32.9 32.9		6.42 6.34		6.38	96.1 95.0		3.43 4.16			3.4 6.3		-
20/10/23	13:56:16	/ Fine	Middle	11.9	26.5	32.9	32.9	6.32	6.33		94.7	94.9	4.18	4.17	4.31	5.6	6.0	5.1
		/ Fille	Bottom	22.8	26.4	33.0 33.0	33.0	6.25 6.25	6.25	6.25	93.5 93.5	93.5	5.37 5.36	5.37		6.2 4.0	5.1	
		25	Surface	1.0	26.0	33.3 33.3	33.3	6.01 6.00	6.01		89.4 89.2	89.3	1.60 1.62	1.61		6.0 8.3	7.2	
24/10/23	14:30:59		Middle	11.7	26.1	33.4 33.4	33.4	5.93 5.90	5.92	5.96	88.4 87.9	88.2	1.83	1.85	1.90	6.5 5.8	6.2	7.2
		/ Fine	Bottom	22.3	26.2	33.6 33.6	33.6	5.71 5.70	5.71	5.71	85.3 85.2	85.3	2.24 2.25	2.25		9.1 7.2	8.2	
		25	Surface	1.0	26.2	32.8 32.8	32.8	6.12 6.10	6.11		91.1 90.8	90.9	1.21	1.22		5.6 7.1	6.4	
26/10/23	15:30:55		Middle	11.3	26.2	33.0 33.1	33.0	6.05 6.02	6.04	6.07	90.2 89.7	89.9	1.37	1.38	1.46	6.5 4.7	5.6	6.1
		/ Fine	Bottom	21.6	26.3	33.4 33.4	33.4	5.82 5.79	5.81	5.81	87.0 86.6	86.8	1.76	1.77		6.4 6.0	6.2	
		25	Surface	1.0	26.5	32.5	32.5	6.21	6.20		92.7	92.5	1.99	1.98		4.1	5.1	
28/10/23	17:01:16	20	Middle	11.7	26.4	32.5 32.7 32.8	32.8	6.18 5.87 5.84	5.86	6.03	92.3 87.6 87.2	87.4	1.97 3.05 3.07	3.06	2.87	6.0 5.4 5.4	5.4	4.8
		/ Fine	Bottom	22.4	26.4	32.8 32.8	32.8	5.64 5.71 5.71	5.71	5.71	85.4 85.3	85.4	3.57 3.58	3.58		5.4 5.0 3.1	4.1	1
		25	Surface	1.0	26.5	31.3 31.3	31.3	6.74 6.69	6.72		100.0 99.2	99.6	2.42	2.43		5.2 5.5	5.4	<u> </u>
31/10/23	9:01:27		Middle	11.3	26.4	31.6	31.7	6.19	6.17	6.44	91.9	91.6	2.76	2.77	3.28	4.4	4.7	5.4
		/ Fine				31.7 32.1		6.14 5.79		E 70	91.2 86.2		2.78 4.64			5.0 5.4		•
			Bottom	21.5	26.4	32.1	32.1	5.78	5.79	5.79	86.0	86.1	4.65	4.65		6.7	6.1	



Monitoring Station : TM-FM1

Date	Time	Ambient Temp (°C) /		ng Depth	Temp	Salini	ty (ppt)	Dissolv	ved Oxygen	(mg/L)		d Oxygen tion (%)	Tu	urbidity (NT	Ū)	Susper	nded Solids	s (mg/L)
Dule	Time	Weather Condition	1)	m)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
		28	Surface	1.0	29.3	28.2 28.2	28.2	5.67 5.67	5.67		86.5 86.5	86.5	2.46 2.48	2.47		3.9 2.9	3.4	
03/10/23	9:33:09	20	Middle	9.3	29.2	28.6	28.7	5.60	5.58	5.63	85.5	85.3	2.65	2.68	2.65	4.4	4.1	4.5
		/ Fine	Bottom	17.5	29.2	28.7 29.4	29.5	5.56 5.42	5.41	5.41	85.0 83.2	83.0	2.70 2.79	2.79	-	3.8 6.3	6.1	
						29.6 26.2		5.39 5.77		5.41	82.8 87.6		2.79 1.72			5.8 2.6		
		29	Surface	1.0	29.7	26.2	26.2	5.79	5.78	5.56	87.9	87.8	1.67	1.70		2.8	2.7	
05/10/23	10:33:07		Middle	9.1	29.5	28.7 28.7	28.7	5.35 5.33	5.34		82.2 81.9	82.1	2.19 2.26	2.23	2.06	2.5 1.5	2.0	2.4
		/ Fine	Bottom	17.3	29.3	30.4 30.4	30.4	5.13 5.12	5.13	5.13	79.3 79.1	79.2	2.27 2.24	2.26		3.0 1.9	2.5	
		27	Surface	1.0	27.7	28.4 28.4	28.4	5.83 5.80	5.82	5.71	86.8 86.4	86.6	3.62 3.61	3.62		2.0 3.8	2.9	
10/10/23	15:20:19		Middle	8.8	27.6	28.5 28.5	28.5	5.62 5.60	5.61	0.71	83.6 83.3	83.4	3.88 3.87	3.88	3.82	4.9 2.3	3.6	3.0
		/ Fine	Bottom	16.6	27.6	28.5 28.5	28.5	5.54 5.50	5.52	5.52	82.4 81.8	82.1	3.96 3.97	3.97		3.6 1.6	2.6	
		27	Surface	1.0	27.5	28.7 28.7	28.7	5.65 5.64	5.65		84.0 83.8	83.9	4.09	4.10		3.9 4.2	4.1	
12/10/23	16:19:05		Middle	8.8	27.5	28.7	28.7	5.62	5.62	5.63	83.4	83.4	4.56	4.56	4.54	2.4	2.7	3.1
		/ Fine	Bottom	16.6	27.5	28.7 28.7	28.7	5.62 5.61	5.61	5.61	83.4 83.3	83.3	4.55 4.95	4.96	-	3.0 2.8	2.7	
						28.7 33.0		5.60 5.68		0.01	83.3 86.3		4.97 5.49			2.5 5.9		
		26	Surface	1.0	27.3	33.0 33.1	33.0	5.69 5.67	5.69	5.67	86.3 86.1	86.3	5.47 6.13	5.48	-	3.0 4.9	4.5	
14/10/23	9:06:38		Middle	9.0	27.3	33.1	33.1	5.65	5.66		85.9	86.0	6.11	6.12	6.07	3.5	4.2	4.1
		/ Fine	Bottom	17.0	27.4	33.1 33.1	33.1	5.59 5.59	5.59	5.59	85.0 85.0	85.0	6.59 6.63	6.61		2.9 4.6	3.8	
		26	Surface	1.0	27.3	33.0 33.0	33.0	5.90 5.90	5.90		89.5 89.6	89.6	2.89 2.88	2.89		6.9 5.5	6.2	
16/10/23	9:37:12		Middle	9.2	27.3	33.0 33.0	33.0	5.89 5.88	5.89	5.89	89.4 89.3	89.4	3.68 3.69	3.69	3.97	4.2 6.9	5.6	6.7
		/ Fine	Bottom	17.4	27.3	33.0 33.0	33.0	5.84 5.83	5.84	5.84	88.6 88.4	88.5	5.31 5.36	5.34		8.2 8.6	8.4	
		26	Surface	1.0	26.8	33.1 33.1	33.1	6.47 6.43	6.45		97.5 96.8	97.2	2.75	2.77		7.2	7.8	
18/10/23	10:33:59		Middle	8.6	26.8	33.1 33.1	33.1	6.28 6.25	6.27	6.36	94.6 94.2	94.4	3.52	3.54	3.99	8.8 9.7	9.3	8.5
		/ Fine	Bottom	16.2	26.8	33.1	33.1	6.19	6.19	6.19	93.2	93.2	5.64	5.66	-	8.6	8.5	
		25	Surface	1.0	26.4	33.1 33.0 32.9	32.9	6.19 6.57 6.53	6.55		93.1 98.1 97.7	97.9	5.68 3.39 3.42	3.41		8.4 7.2 9.2	8.2	
20/10/23	13:36:16	25	Middle	9.3	26.5	32.9	32.9	6.31	6.30	6.43	94.6	94.4	4.49	4.50	4.39	2.6	3.3	5.7
		/ Fine	Bottom	17.5	26.5	33.0 33.0	33.0	6.29 6.25	6.25	6.25	94.2 93.5	93.5	4.51 5.26	5.25	-	4.0 7.0	5.6	
						33.0 33.3		6.24 5.84			93.5 86.9		5.24 1.61			4.1 4.9		
		25	Surface	1.0	26.0	33.3 33.4	33.3	5.82 5.73	5.83	5.78	86.6 85.4	86.7	1.62 2.02	1.62		5.8 8.3	5.4	_
24/10/23	14:51:03	/ Fine	Middle	8.8	26.1	33.4 33.6	33.4	5.72	5.73		85.3 84.6	85.3	2.05	2.04	2.04	8.1 9.3	8.2	7.6
		/ Fille	Bottom	16.6	26.2	33.6	33.6	5.65	5.66	5.66	84.5	84.5	2.48	2.47		9.1	9.2	
		25	Surface	1.0	26.2	33.0 33.0	33.0	5.84 5.81	5.83	5.76	87.0 86.6	86.8	1.49 1.50	1.50		7.2 5.4	6.3	
26/10/23	15:49:52		Middle	8.6	26.3	33.3 33.3	33.3	5.69 5.68	5.69	0.70	85.1 84.9	85.0	1.45 1.47	1.46	1.61	6.2 6.0	6.1	5.9
		/ Fine	Bottom	16.2	26.3	33.4 33.4	33.4	5.66 5.65	5.66	5.66	84.7 84.5	84.6	1.85 1.88	1.87		4.2 6.1	5.2	
		25	Surface	1.0	26.1	32.8 32.6	32.7	6.35 6.08	6.22		94.4 90.5	92.5	1.92	1.92		4.5 3.8	4.2	
28/10/23	16:36:17		Middle	9.1	26.4	32.7 32.7	32.7	5.90 5.89	5.90	6.06	88.2 87.9	88.1	2.51	2.54	2.57	3.8 3.4	3.6	4.4
		/ Fine	Bottom	17.1	26.4	32.8	32.8	5.73	5.73	5.73	85.6	85.6	3.27	3.25	1	5.1	5.5	
		25	Surface	1.0	26.5	32.8 31.3 31.3	31.3	5.72 6.62 6.56	6.59		85.5 98.1 97.2	97.7	3.23 2.39 2.42	2.41		5.8 5.1 6.7	5.9	
31/10/23	9:22:06	20	Middle	8.9	26.4	31.6	31.6	6.03	6.02	6.31	89.5	89.4	2.65	2.67	3.34	4.2	4.1	5.8
		/ Fine	Bottom	16.8	26.4	31.7 31.9	32.0	6.01 5.85	5.84	5.84	89.2 86.9	86.8	2.69 4.93	4.95		4.0 7.4	7.4	
			Doatom	10.0	20.4	32.0	02.0	5.82	0.04	0.04	86.6	55.5	4.97	4.35		7.4	7.4	



Monitoring Station : TM-FM2

Monitorin	-	Ambient Temp (°C) /	I M-HM	ng Depth	Temp	Salini	ty (ppt)	Dissolv	red Oxygen	(mg/L)		d Oxygen tion (%)	Tu	urbidity (NT	'U)	Suspe	nded Solids	s (mg/L)
Date	Time	Weather Condition		m)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
		28	Surface	1.0	29.3	28.2 28.2	28.2	5.68 5.68	5.68		86.6 86.6	86.6	2.47 2.52	2.50		3.7 4.3	4.0	
03/10/23	9:16:10		Middle	8.2	29.2	28.7 28.8	28.8	5.57 5.53	5.55	5.62	85.1 84.7	84.9	2.81 2.84	2.83	2.78	4.2 4.9	4.6	4.1
		/ Fine	Bottom	15.4	29.2	29.3 29.5	29.4	5.44 5.41	5.43	5.43	83.4 83.0	83.2	3.03 3.02	3.03		3.4 4.2	3.8	
		28	Surface	1.0	29.6	26.7 26.7	26.7	5.63 5.62	5.63	5 50	85.7 85.5	85.6	1.86 1.86	1.86		4.7 3.9	4.3	
05/10/23	10:16:09		Middle	8.1	29.5	27.8 28.3	28.1	5.46 5.39	5.43	5.53	83.5 82.6	83.1	2.33 2.34	2.34	2.20	3.5 3.7	3.6	4.4
		/ Fine	Bottom	15.2	29.3	29.5 29.8	29.7	5.21 5.19	5.20	5.20	80.2 80.0	80.1	2.41 2.38	2.40		4.1 6.3	5.2	
		27	Surface	1.0	27.7	28.4 28.4	28.4	5.84 5.81	5.83	5.72	86.9 86.5	86.7	3.54 3.57	3.56		4.0 3.2	3.6	
10/10/23	15:42:13		Middle	8.6	27.7	28.5 28.5	28.5	5.62 5.59	5.61	5.72	83.7 83.3	83.5	3.72 3.73	3.73	3.73	1.8 3.5	2.7	3.3
		/ Fine	Bottom	16.1	27.6	28.5 28.5	28.5	5.51 5.51	5.51	5.51	82.0 82.0	82.0	3.88 3.91	3.90		3.2 3.8	3.5	
		27	Surface	1.0	27.5	28.7 28.7	28.7	5.69 5.68	5.69	5.68	84.5 84.4	84.5	3.71 3.74	3.73		4.4 6.2	5.3	
12/10/23	16:31:58		Middle	8.9	27.5	28.7 28.7	28.7	5.68 5.68	5.68	5.00	84.5 84.5	84.5	3.93 3.94	3.94	3.97	3.8 2.8	3.3	4.1
		/ Fine	Bottom	16.8	27.5	28.7 28.7	28.7	5.67 5.67	5.67	5.67	84.3 84.2	84.3	4.25 4.27	4.26		3.4 3.9	3.7	
		26	Surface	1.0	27.4	33.1 33.1	33.1	5.66 5.66	5.66	5.65	85.9 85.9	85.9	5.24 5.26	5.25		6.2 7.5	6.9	
14/10/23	8:48:09		Middle	8.2	27.4	33.1 33.1	33.1	5.65 5.64	5.65	5.65	85.8 85.7	85.8	6.04 6.05	6.05	5.90	7.3 6.5	6.9	6.7
		/ Fine	Bottom	15.4	27.4	33.1 33.1	33.1	5.62 5.62	5.62	5.62	85.4	85.4	6.38 6.40	6.39		7.1 5.6	6.4	
		26	Surface	1.0	27.3	33.0 33.0	33.0	5.92 5.92	5.92	E 00	89.9 89.8	89.9	2.94 2.95	2.95		7.7 7.7	7.7	
16/10/23	9:18:17		Middle	8.1	27.3	33.0 33.0	33.0	5.88 5.87	5.88	5.90	89.2 89.1	89.2	4.04 4.08	4.06	4.09	7.6 7.0	7.3	7.8
		/ Fine	Bottom	15.1	27.3	33.0 33.1	33.0	5.83 5.83	5.83	5.83	88.6 88.5	88.6	5.27 5.24	5.26		7.5 9.2	8.4	
		26	Surface	1.0	26.7	33.1 33.1	33.1	6.26 6.25	6.26	6.23	94.1 93.9	94.0	2.69 2.70	2.70		8.2 10.8	9.5	
18/10/23	10:19:09		Middle	8.4	26.8	33.1 33.1	33.1	6.20 6.19	6.20	0.20	93.2 93.1	93.2	3.72 3.73	3.73	4.03	9.1 9.0	9.1	8.7
		/ Fine	Bottom	15.8	26.8	33.1 33.1	33.1	6.14 6.13	6.14	6.14	92.5 92.4	92.5	5.67 5.68	5.68		6.9 8.4	7.7	
		26	Surface	1.0	26.5	32.9 32.9	32.9	6.57 6.54	6.56	6.42	98.3 97.8	98.1	3.54 3.56	3.55		3.1 3.6	3.4	
20/10/23	13:21:16		Middle	9.8	26.5	33.0 33.0	33.0	6.29 6.28	6.29	0.42	94.3 94.1	94.2	4.62 4.63	4.63	4.54	2.8 5.0	3.9	4.4
		/ Fine	Bottom	18.5	26.5	33.0 33.0	33.0	6.23 6.23	6.23	6.23	93.3 93.3	93.3	5.42 5.47	5.45		4.9 6.7	5.8	
		25	Surface	1.0	26.0	33.2 33.3	33.2	5.99 5.97	5.98	5.97	89.1 88.8	88.9	1.63 1.64	1.64		2.8 6.3	4.6	
24/10/23	15:04:55		Middle	8.7	26.0	33.3 33.3	33.3	5.96 5.95	5.96	3.37	88.7 88.5	88.6	1.59 1.60	1.60	1.88	7.4 5.8	6.6	6.3
		/ Fine	Bottom	16.4	26.1	33.5 33.5	33.5	5.83 5.81	5.82	5.82	86.9 86.6	86.8	2.39 2.41	2.40		9.0 6.7	7.9	
		25	Surface	1.0	26.2	32.9 32.9	32.9	6.03 6.03	6.03	6.04	89.8 89.8	89.8	1.37 1.32	1.35		5.0 7.5	6.3	
26/10/23	16:02:57		Middle	8.5	26.2	32.9 32.9	32.9	6.04 6.05	6.05	0.04	89.9 90.1	90.0	1.35 1.33	1.34	1.43	8.1 6.6	7.4	6.6
		/ Fine	Bottom	16.0	26.2	33.2 33.3	33.3	5.93 5.87	5.90	5.90	88.5 87.8	88.1	1.57 1.61	1.59		6.7 5.5	6.1	
		25	Surface	1.0	26.4	32.6 32.6	32.6	6.29 6.23	6.26	6.04	93.9 93.0	93.5	2.09 2.11	2.10		5.5 4.3	4.9	
28/10/23	16:21:10		Middle	9.5	26.4	32.7 32.7	32.7	5.82 5.81	5.82	0.04	87.0 86.8	86.9	2.79 2.84	2.82	2.78	5.3 4.9	5.1	5.2
		/ Fine	Bottom	18.0	26.4	32.8 32.8	32.8	5.73 5.72	5.73	5.73	85.6 85.5	85.6	3.42 3.45	3.44		6.0 5.0	5.5	
		25	Surface	1.0	26.5	31.3 31.3	31.3	6.49 6.46	6.48	6.05	96.3 95.8	96.1	2.36 2.40	2.38		5.6 5.8	5.7	
31/10/23	9:36:16		Middle	8.7	26.4	31.7 31.7	31.7	6.04 6.01	6.03	6.25	89.7 89.3	89.5	2.57 2.56	2.57	2.96	4.8 5.5	5.2	5.7
		/ Fine	Bottom	16.4	26.4	31.8 31.9	31.8	5.89 5.87	5.88	5.88	87.5 87.2	87.4	3.96 3.93	3.95		6.6 5.9	6.3	
	i					. · · ·	i							i	i			



Monitoring Station :

TM-FC2

	Monitorir	Date Time Temp (%		Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissolv	ved Oxygen	(mg/L)		d Oxygen tion (%)	Τι	irbidity (NT	U)	Susper	nded Solids	s (mg/L)
	Date	Time	Weather				Value	Average	Value	Average			1	Value	Average		Value	Average	
<th< th=""> <th< th=""> <</th<></th<>				Surface	1.0	29.2		28.2		5.71			87.2		2.57			3.2	
<th< th=""> <th< th=""> <</th<></th<>	03/10/23	9:01:05		Middle	8.1	29.2	28.9	28.9	5.56	5.55	5.63	85.1	84.9	2.76	2.79	2.73	4.4	4.0	4.5
9 10 10 2 10 2 10 <td></td> <td></td> <td>/ Fine</td> <td>Bottom</td> <td>15.2</td> <td>29.2</td> <td>29.4</td> <td>29.5</td> <td>5.42</td> <td>5.41</td> <td>5.41</td> <td>83.2</td> <td>83.1</td> <td>2.82</td> <td>2.83</td> <td></td> <td>5.9</td> <td>6.3</td> <td></td>			/ Fine	Bottom	15.2	29.2	29.4	29.5	5.42	5.41	5.41	83.2	83.1	2.82	2.83		5.9	6.3	
				Surface	1.0	29.6	26.5	26.5	5.79	5.79		88.0	88.1	1.86	1.84		3.8	3.9	
	05/10/23	10:01:01	29	Middle	8.2	29.5	28.7	28.7	5.38	5.37	5.58	82.7	82.6	2.28	2.31	2.24		4.9	4.2
image: bold imag			/ Fine				29.2		5.27		5.26	81.0		2.57					
							28.4		5.86			87.2		3.65					
	10/10/23	15:59:11	27				28.5		5.61		5.72	83.6		3.84		3.84			3.6
i i			/ Fine				28.5		5.50		5.50	81.9		4.02					
10000 10000 1000 <																			
12 (10) 15 (3) 16 (3) 16 (3) 21 (3) 21 (3) 21 (3) 22 (3) 23 (3) 4.2 (3			27								5.65								
Image: bolic	12/10/23	16:50:02	/ Fine	Middle	9.0			28.7		5.64			83.7		4.41	4.34	3.6	3.6	3.6
4400 57.0 <t< td=""><td></td><td></td><td>, 1 110</td><td>Bottom</td><td>16.9</td><td>27.5</td><td>28.7</td><td>28.7</td><td>5.62</td><td>5.62</td><td>5.62</td><td>83.5</td><td>83.5</td><td>4.65</td><td>4.64</td><td></td><td>2.8</td><td>2.6</td><td></td></t<>			, 1 110	Bottom	16.9	27.5	28.7	28.7	5.62	5.62	5.62	83.5	83.5	4.65	4.64		2.8	2.6	
14102 52/08 - Made 82 2 4 31 53 56 56 66 81 61 61 71 71 75 75 16'024 - 4 10 10 10 10 23 300 560 560 560 661 90 2.78			26	Surface	1.0	27.4	33.1	33.1	5.72	5.73	5.68	87.0	87.1	5.69	5.68		5.9	6.9	
Image: state in the s	14/10/23	8:27:08		Middle	8.2	27.4		33.1		5.63			85.7		6.16	6.13		7.6	6.5
16:102 900:14 6.0 900:30 <td></td> <td></td> <td>/ Fine</td> <td>Bottom</td> <td>15.4</td> <td>27.4</td> <td></td> <td>33.2</td> <td></td> <td>5.60</td> <td>5.60</td> <td></td> <td>85.2</td> <td></td> <td>6.56</td> <td></td> <td></td> <td>5.1</td> <td></td>			/ Fine	Bottom	15.4	27.4		33.2		5.60	5.60		85.2		6.56			5.1	
Inf i			26	Surface	1.0	27.3		33.0		5.96	5 93		90.5		2.79			6.6	
Image: state in the s	16/10/23	9:00:14		Middle	8.2	27.3		33.0		5.90	0.00		89.5		3.75	3.89		7.1	6.9
18/10/23 26 Sunte 10 26.3 31.1 33.3 6.27 6.39 28.9 <th28.9< th=""> 28.9 28.9 <th< td=""><td></td><td></td><td>/ Fine</td><td>Bottom</td><td>15.4</td><td>27.3</td><td></td><td>33.0</td><td></td><td>5.85</td><td>5.85</td><td></td><td>88.8</td><td></td><td>5.14</td><td></td><td></td><td>6.9</td><td></td></th<></th28.9<>			/ Fine	Bottom	15.4	27.3		33.0		5.85	5.85		88.8		5.14			6.9	
18/10/23 10.00 is intermating intermatint intermating intermating intermating intermating interm			26	Surface	1.0	26.3		33.3		6.39	6.27		95.9		2.90			8.1	
1 1	18/10/23	10:00:58		Middle	8.3	26.8	33.1	33.1		6.16	0.27	92.6	92.7	3.66	3.64	4.11		8.4	8.9
201023 32.9 32.9 32.9 6.32 6.33 6.32 6.32 6.33 6.32 6.33 6.32 6.33 6.33 6.32 6.33 6.33 6.32 6.33 6.34 6.34 6.34 6.34 6.34 6.34 6.34 6.34 6.3 6.34 6.3 <th< td=""><td></td><td></td><td>/ Fine</td><td>Bottom</td><td>15.6</td><td>26.8</td><td>33.1</td><td>33.1</td><td></td><td>6.13</td><td>6.13</td><td></td><td>92.2</td><td></td><td>5.78</td><td></td><td></td><td>10.4</td><td></td></th<>			/ Fine	Bottom	15.6	26.8	33.1	33.1		6.13	6.13		92.2		5.78			10.4	
2010/23 1 1 1 1 2 2 6 2 6 2 6 3 6 6 6 6 <td></td> <td></td> <td>26</td> <td>Surface</td> <td>1.0</td> <td>26.5</td> <td></td> <td>32.9</td> <td></td> <td>6.42</td> <td>6.37</td> <td></td> <td>96.1</td> <td></td> <td>3.32</td> <td></td> <td></td> <td>5.0</td> <td></td>			26	Surface	1.0	26.5		32.9		6.42	6.37		96.1		3.32			5.0	
indical indical <t< td=""><td>20/10/23</td><td>13:01:16</td><td></td><td>Middle</td><td>8.7</td><td>26.5</td><td>32.9</td><td>32.9</td><td>6.31</td><td>6.32</td><td>0.07</td><td></td><td>94.6</td><td>4.41</td><td>4.43</td><td>4.29</td><td></td><td>6.1</td><td>5.5</td></t<>	20/10/23	13:01:16		Middle	8.7	26.5	32.9	32.9	6.31	6.32	0.07		94.6	4.41	4.43	4.29		6.1	5.5
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			/ Fine	Bottom	16.4	26.5		33.0		6.23	6.23		93.3		5.13			5.4	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			25	Surface	1.0	26.0		33.3		5.83	5 70		86.6		1.58		-	8.3	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	24/10/23	15:23:58		Middle	8.0	26.1		33.4		5.73	3.70		85.4		2.08	2.14		5.4	6.8
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			/ Fine	Bottom	15.0	26.2		33.6		5.67	5.67		84.7		2.75			6.8	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			25	Surface	1.0	26.2		33.0		5.87	5 90		87.5		1.32			8.3	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	26/10/23	16:23:56		Middle	8.5	26.2		33.2		5.73	3.60		85.4		1.54	1.56	-	6.5	6.9
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			/ Fine	Bottom	15.9	26.3		33.4		5.68	5.68		84.9		1.84			5.9	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			25	Surface	1.0	26.5		32.7		6.11	E OF		91.1		2.48			5.7	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	28/10/23	16:01:14		Middle	8.9	26.4		32.8		5.80	0.95		86.7		2.84	2.86	6.1	6.0	5.6
31/10/23 10:01:09 25 Surface 1.0 26.4 31.3 31.3 6.43 6.45 95.3 95.6 2.39 2.40 31/10/23 10:01:09 Middle 7.7 26.4 31.6 6.06 6.05 95.3 95.6 2.39 2.40 90.0 89.8 2.54 2.53 2.54 3.43 4.4 4.8 90.0 89.5 89.8 2.53 2.54 5.3 5.3 90.0 89.8 2.53 2.54 5.3 5.3 5.3			/ Fine	Bottom	16.8	26.4		32.8		5.71	5.71		85.4		3.25		5.4	5.2	
31/10/23 10:01:09 Middle 7.7 26.4 31.6 6.06 6.05 90.0 89.8 2.54 2.54 3.43 4.9 5.1 / Fine Bottom 14.4 26.4 31.9 5.85 5.84 5.84 86.9 86.8 5.33 5.35 5.4			25	Surface	1.0	26.4		31.3		6.45	6.05		95.6		2.40			4.8	
/ Fine Bottom 14.4 26.4 31.9 31.9 5.85 5.84 5.84 86.9 86.8 5.33 5.35 4.7 5.4	31/10/23	10:01:09		Middle	7.7	26.4	31.6	31.6	6.06	6.05	6 .25	90.0	89.8	2.54	2.54	3.43	4.9	5.1	5.1
			/ Fine	Bottom	14.4	26.4		31.9		5.84	5.84		86.8		5.35		4.7	5.4	



Monitoring Station : TM-FC1

Date	Time	Ambient Temp (°C) /		ng Depth	Temp	Salini	ty (ppt)	Dissolv	ved Oxygen	(mg/L)		d Oxygen tion (%)	Tu	ırbidity (NT	,	Susper	nded Solids	
		Weather Condition	(1	m)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
		28	Surface	1.0	29.3	28.1 28.1	28.1	5.68 5.69	5.69		86.7 86.8	86.8	2.48 2.49	2.49		2.2 2.7	2.5	
03/10/23	14:02:56		Middle	10.0	29.2	28.9	29.0	5.52	5.51	5.60	84.6	84.4	2.76	2.76	2.70	3.1	3.5	3.9
		/ Fine				29.0 29.3		5.49 5.42			84.1 83.1		2.75 2.83			3.8 6.3		ł
			Bottom	19.0	29.2	29.4	29.3	5.40	5.41	5.41	82.8	83.0	2.86	2.85		5.3	5.8	
		29	Surface	1.0	29.7	26.0 26.0	26.0	5.88 5.89	5.89	5.00	89.3 89.4	89.4	1.64 1.64	1.64		4.9 3.5	4.2	
05/10/23	16:00:56		Middle	10.1	29.5	28.2	28.4	5.37	5.36	5.62	82.3	82.2	2.26	2.29	2.08	4.1	3.5	3.8
		/ Fine	Detterm	19.2	29.3	28.6 30.6	30.6	5.35 5.12	5.12	5.12	82.0 79.2	79.1	2.32 2.33	2.31		2.9 3.0	3.8	1
			Bottom	19.2	29.3	30.7 28.4	30.0	5.11 5.80	5.12	5.12	79.0 86.4	75.1	2.29 4.03	2.31		4.6 3.6	3.0	
		27	Surface	1.0	27.7	28.4	28.4	5.80	5.79	5.66	85.9	86.1	4.03	4.05		5.2	4.4	
10/10/23	10:59:58		Middle	11.1	27.6	28.5 28.5	28.5	5.53 5.52	5.53	5.00	82.2 82.1	82.2	4.19 4.21	4.20	4.21	2.4 3.1	2.8	3.6
		/ Fine	Bottom	21.1	27.7	28.5	28.5	5.48	5.47	5.47	81.6	81.5	4.38	4.37		4.4	3.6	1
			Bottom			28.5 28.7		5.46 5.65	0.17	0.11	81.3 83.9	01.0	4.36 4.40			2.7 3.7	0.0	
		27	Surface	1.0	27.5	28.7	28.7	5.65	5.65	5.64	83.9	83.9	4.42	4.41		5.5	4.6	
12/10/23	10:55:00		Middle	11.1	27.5	28.7 28.7	28.7	5.63 5.63	5.63		83.6 83.6	83.6	4.31 4.34	4.33	4.48	3.0 4.8	3.9	4.3
		/ Fine	Bottom	21.2	27.5	28.7	28.7	5.62	5.62	5.62	83.6	83.6	4.72	4.72		4.6	4.5	1
						28.7 33.0		5.62 5.73			83.5 87.0		4.71 4.96			4.3 5.3		
		26	Surface	1.0	27.3	33.0	33.0	5.73	5.73	5.68	87.0	87.0	4.98	4.97		5.7	5.5	
14/10/23	13:00:08		Middle	10.3	27.4	33.1 33.1	33.1	5.64 5.63	5.64		85.7 85.5	85.6	5.92 5.93	5.93	5.84	7.6 6.6	7.1	6.6
		/ Fine	Bottom	19.7	27.4	33.1	33.1	5.60	5.60	5.60	85.1	85.1	6.63	6.64		7.0	7.2	
			Surface	1.0	27.3	33.1 33.0	33.0	5.60 5.90	5.90		85.1 89.6	89.6	6.64 2.94	2.98		7.4 6.1	6.5	
		26	Sunace	1.0	27.3	33.0 33.0	33.0	5.90 5.88	5.90	5.89	89.6 89.3	05.0	3.01 3.91	2.90		6.9 5.9	0.5	
16/10/23	13:00:55		Middle	10.2	27.3	33.0	33.0	5.87	5.88		89.1	89.2	3.91	3.94	4.16	5.1	5.5	6.3
		/ Fine	Bottom	19.5	27.3	33.1 33.1	33.1	5.81 5.80	5.81	5.81	88.3 88.1	88.2	5.55 5.56	5.56		7.4 6.1	6.8	
			Surface	1.0	26.6	33.3	33.3	6.26	6.26		94.0	94.0	3.12	3.14		9.8	9.7	
		26				33.3 33.1		6.25 6.17		6.21	93.9 93.0		3.16 4.25			9.6 7.7		-
18/10/23	16:00:57		Middle	11.0	26.8	33.1	33.1	6.16	6.17		92.9	93.0	4.27	4.26	4.45	6.9	7.3	8.0
		/ Fine	Bottom	21.1	26.8	33.1 33.1	33.1	6.15 6.15	6.15	6.15	92.6 92.6	92.6	5.94 5.97	5.96		7.0 7.1	7.1	
			Surface	1.0	26.5	32.9	32.9	6.54	6.53		97.9	97.8	3.35	3.36		3.8	4.1	
00/10/00	7:31:35	26	Middle	11.1	26.5	32.9 33.0	33.0	6.52 6.31	6.31	6.42	97.6 94.6	94.5	3.36 4.83	4.84	4 5 1	4.3 3.4	3.8	4.0
20/10/23	7.31.35	/ Fine	wilddie	11.1	20.5	33.0	33.0	6.30	0.31		94.4	94.5	4.84	4.04	4.51	4.2	3.0	4.9
		/ Fille	Bottom	21.3	26.5	33.0 33.0	33.0	6.25 6.25	6.25	6.25	93.5 93.4	93.5	5.31 5.34	5.33		7.4 6.0	6.7	
		25	Surface	1.0	26.0	33.3 33.3	33.3	5.83 5.81	5.82		86.7 86.4	86.6	1.62 1.64	1.63		8.5 7.6	8.1	
24/10/23	9:56:25		Middle	11.1	26.2	33.5	33.5	5.68	5.68	5.75	84.9	84.8	2.21	2.22	2.11	6.1	6.4	8.0
		/ Fine				33.5 33.6		5.67 5.65			84.7 84.5		2.22 2.47			6.6 9.8		
			Bottom	21.2	26.2	33.6	33.6	5.64	5.65	5.65	84.3	84.4	2.51	2.49		9.2	9.5	
		25	Surface	1.0	26.2	32.9 32.9	32.9	5.89 5.86	5.88		87.7 87.3	87.5	1.33 1.35	1.34		5.4 8.1	6.8	
26/10/23	9:55:55		Middle	11.0	26.3	33.4	33.4	5.66	5.64	5.76	84.7	84.4	1.96	1.98	1.75	6.8	7.5	7.1
		/ Fine				33.4 33.5		5.62 5.60			84.1 83.8		2.00 1.92			8.2 6.4		
			Bottom	20.9	26.3	33.5	33.5	5.58	5.59	5.59	83.5	83.7	1.96	1.94		7.7	7.1	ļ
		25	Surface	1.0	26.4	32.6 32.6	32.6	6.36 6.31	6.34	6.10	94.9 94.1	94.5	2.29 2.25	2.27		4.7	4.5	
28/10/23	10:31:21		Middle	11.4	26.4	32.8 32.8	32.8	5.91 5.89	5.90	6.12	88.3 87.9	88.1	3.00	3.02	3.10	6.5	6.5	5.5
		/ Fine	Bottom	21.8	26.4	32.8 32.9	32.9	5.89 5.73	5.73	5.73	87.9 85.7	85.7	3.03 3.98	4.00		6.5 5.2	5.5	1
			BOLLOM	∠1.8	20.4	32.9	JZ.9	5.73 6.45	5.73	0.73	85.6 95.7	00./	4.02	4.00		5.8 4.4	5.5	
		25	Surface	1.0	26.5	31.3 31.3	31.3	6.45 6.40	6.43	6.15	95.7 94.9	95.3	2.36 2.37	2.37		4.4	4.2	
31/10/23	14:58:15		Middle	11.8	26.4	31.9 31.9	31.9	5.88 5.86	5.87	0.10	87.3 87.1	87.2	2.82 2.82	2.82	3.15	4.8 5.8	5.3	5.1
		/ Fine	Bottom	22.5	26.4	32.1	32.1	5.74	5.74	5.74	85.3	85.3	4.25	4.27		6.4	5.8	1
			Beatom		20.4	32.1	02.1	5.73	0.14	0.74	85.2	00.0	4.28			5.2	0.0	



Monitoring Station : TM-FM1

	Depth-average 5.61 5.40 5.63 5.19 5.70 5.48 5.65 5.63	Saturat Value 87.2 84.5 84.1 82.6 88.8 88.9 83.0 82.8 80.5 80.6 86.9 86.5 83.3 83.0 81.8 81.2 84.0 83.8 83.8	Average 87.2 84.3 82.8 88.9 82.9 80.3 86.7 83.1 81.5 84.0	Value 2.30 2.34 2.76 2.95 2.92 1.70 1.68 2.14 2.27 2.31 2.22 3.94 3.95 4.02 4.04 4.23 4.25 4.05 4.06	Average 2.32 2.76 2.94 1.69 2.21 2.27 3.95 4.03 4.24 4.06	Depth- average 2.67 2.05 4.07	Value 3.8 4.4 3.7 4.6 3.2 5.6 3.5 3.3 3.3 1.5 3.8 2.9 3.2 5.9 3.0 2.7 3.6 2.3	Average 4.1 4.2 4.4 3.4 2.4 3.4 4.6 2.9	Depth- average 4.2 3.1 3.5
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	5.61 5.40 5.63 5.19 5.70 5.48 5.65	87.2 84.5 84.1 82.9 82.6 88.8 88.9 83.0 82.8 80.0 82.8 80.0 86.9 86.5 83.3 83.0 81.8 81.2 84.0 84.0 83.8	84.3 82.8 88.9 82.9 80.3 86.7 83.1 81.5	2.34 2.76 2.95 2.92 1.70 1.68 2.14 2.27 2.31 2.22 3.94 3.95 4.02 4.04 4.23 4.25 4.05 4.06	 2.76 2.94 1.69 2.21 2.27 3.95 4.03 4.24 	2.67	4.4 3.7 4.6 3.2 5.6 3.5 3.3 1.5 3.8 2.9 3.0 2.7 3.6	4.2 4.4 3.4 2.4 3.4 4.6 2.9	4.2
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	5.40 5.63 5.19 5.70 5.48 5.65	84.5 84.1 82.9 82.6 88.8 83.0 83.0 82.8 80.5 80.0 86.9 86.5 83.3 83.0 81.8 81.2 84.0 84.0 83.8	82.8 88.9 82.9 80.3 86.7 83.1 81.5	2.76 2.76 2.95 2.92 1.70 1.68 2.14 2.27 2.31 2.22 3.94 3.95 4.02 4.04 4.23 4.25 4.05	2.94 1.69 2.21 2.27 3.95 4.03 4.24	2.05	3.7 4.6 3.2 5.6 3.5 3.3 1.5 3.8 2.9 3.2 5.9 3.0 2.7 3.6	- 4.4 - 3.4 - 2.4 - 3.4 - 4.6 - 2.9	3.1
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	5.63 5.19 5.70 5.48 5.65	82.9 82.6 88.8 88.9 83.0 82.8 80.5 80.0 86.9 86.5 83.3 83.0 81.2 84.0 84.0 83.8	88.9 82.9 80.3 86.7 83.1 81.5	2.95 2.92 1.70 1.68 2.14 2.27 2.31 2.22 3.94 3.95 4.02 4.04 4.23 4.25 4.05 4.06	 1.69 2.21 2.27 3.95 4.03 4.24 		3.2 5.6 3.5 3.3 1.5 3.8 2.9 3.2 5.9 3.0 2.7 3.6	3.4 2.4 3.4 4.6 2.9	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	5.19 5.70 5.48 5.65	88.8 88.9 83.0 82.8 80.5 80.0 86.9 86.5 83.3 83.0 81.8 81.2 84.0 84.0 83.8	82.9 80.3 86.7 83.1 81.5	1.70 1.68 2.14 2.27 2.31 2.22 3.94 3.95 4.02 4.04 4.23 4.25 4.06	2.21 2.27 3.95 4.03 4.24		3.5 3.3 1.5 3.8 2.9 3.2 5.9 3.0 2.7 3.6	2.4 3.4 4.6 2.9	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	5.19 5.70 5.48 5.65	83.0 82.8 80.5 86.9 86.5 83.3 83.0 81.8 81.2 84.0 84.0 83.8	80.3 86.7 83.1 81.5	2.14 2.27 2.31 2.22 3.94 3.95 4.02 4.04 4.23 4.25 4.05 4.06	2.27 3.95 4.03 4.24		3.3 1.5 3.8 2.9 3.2 5.9 3.0 2.7 3.6	3.4 4.6 2.9	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	5.70 5.48 5.65	80.5 80.0 86.9 86.5 83.3 83.0 81.8 81.2 84.0 83.8	86.7 83.1 81.5	2.31 2.22 3.94 3.95 4.02 4.04 4.23 4.25 4.05 4.06	3.95 4.03 4.24	4.07	3.8 2.9 3.2 5.9 3.0 2.7 3.6	4.6	3.5
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5.48	86.9 86.5 83.3 83.0 81.8 81.2 84.0 84.0 83.8	83.1 81.5	3.94 3.95 4.02 4.04 4.23 4.25 4.05 4.06	4.03	4.07	3.2 5.9 3.0 2.7 3.6	- 2.9	3.5
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	5.48	83.3 83.0 81.8 81.2 84.0 84.0 83.8	81.5	4.02 4.04 4.23 4.25 4.05 4.06	4.24	4.07	3.0 2.7 3.6		3.5
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	5.65	81.8 81.2 84.0 84.0 83.8		4.23 4.25 4.05 4.06			3.6		ţ
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		84.0 84.0 83.8	84.0	4.05 4.06	4.06			3.0	i i
12/10/23 10:35:03 Middle 10.0 27.5 28.7 5.64 5.64 / Fine Bottom 18.9 27.5 28.7 28.7 5.64 5.64 12/10/23 / Fine Bottom 18.9 27.5 28.7 28.7 5.63 5.63 12.10 18.9 27.5 28.7 28.7 5.63 5.63 12.10 18.9 27.5 28.7 28.7 5.63 5.63 12.10 18.9 27.5 28.7 5.63 5.63 5.63		83.8					3.8 5.5	4.7	
/ Fine Bottom 18.9 27.5 28.7 5.63 5.63 33.0 5.63 5.63 5.63 5.63 5.63 5.63	5.63	00.0	83.8	4.31 4.32	4.32	4.28	5.4 5.4	5.4	4.6
33.0 5.76		83.6 83.6	83.6	4.45	4.47		4.9	3.6	t
26 Surface 1.0 27.3 33.0 5.76 5.76		87.4 87.4	87.4	4.13	4.15		3.8 6.0	4.9	
14/10/23 13:16:47 Middle 9.1 27.3 33.1 5.72 5.71	5.73	86.8 86.5	86.7	5.16	5.17	5.30	5.5 7.0	6.3	5.1
/ Fine Bottom 17.1 27.4 33.1 33.1 5.62 5.62	5.62	85.5 85.3	85.4	6.57 6.59	6.58		4.6	4.3	t
26 Surface 1.0 27.3 33.0 5.91 5.91 5.91		89.6 89.6	89.6	2.84	2.85		5.9 6.1	6.0	
16/10/23 13:15:31 Middle 9.2 27.3 33.0 5.88 5.88 5.88	5.89	89.3 89.1	89.2	3.93 3.92	3.93	4.00	7.5	7.4	7.2
/ Fine Bottom 17.4 27.3 33.1 33.1 5.81 5.81 5.81	5.81	88.3 88.1	88.2	5.20 5.24	5.22		7.3 8.8	8.1	
26 Surface 1.0 26.8 33.1 33.1 6.51 6.49		98.0 97.3	97.7	3.22 3.23	3.23		3.7 4.5	4.1	
18/10/23 16:20:58 Middle 8.5 26.8 33.1 33.1 6.29 6.28	6.39	94.7 94.3	94.5	4.43 4.46	4.45	4.48	3.8 6.1	5.0	5.8
/ Fine Bottom 16.0 26.8 33.1 33.1 6.18 6.18	6.18	93.1 93.0	93.1	5.74 5.78	5.76		9.2 7.5	8.4	
26 Surface 1.0 26.5 32.9 32.9 6.56 6.55	0.45	98.3 97.8	98.1	3.34 3.39	3.37		4.1 5.3	4.7	
20/10/23 7:51:38 Middle 8.7 26.5 32.9 6.36 6.35 6.35	6.45	95.3 94.9	95.1	4.36 4.35	4.36	4.41	5.8 4.3	5.1	5.6
/ Fine Bottom 16.4 26.5 33.0 33.0 6.25 6.25	6.25	93.5 93.5	93.5	5.46 5.53	5.50		7.0 7.3	7.2	
25 Surface 1.0 26.0 33.2 33.3 6.14 6.07	5.04	91.3 89.3	90.3	1.53 1.57	1.55		8.1 6.5	7.3	
24/10/23 9:36:57 Middle 11.5 26.2 33.5 5.77 5.76	5.91	86.2 85.8	86.0	2.29 2.30	2.30	2.09	7.0 7.2	7.1	7.1
/ Fine Bottom 22.0 26.2 33.6 33.6 5.67 5.66	5.66	84.8 84.5	84.6	2.41 2.43	2.42		6.6 7.0	6.8	
25 Surface 1.0 26.2 32.7 32.7 6.22 6.21	6.17	92.5 92.2	92.4	1.32 1.34	1.33		7.6 7.7	7.7	
26/10/23 9:36:55 Middle 9.9 26.2 33.0 6.14 6.12	0.17	91.5 90.9	91.2	1.47 1.49	1.48	1.58	7.5 7.0	7.3	6.5
/ Fine Bottom 18.7 26.3 33.4 5.82 5.81 5.79 5.81 5.79 5.81 5.81 5.79 5.81 5.81 5.79 5.81 5.81 5.79 5.81 5.81 5.81 5.79 5.81 5.81 5.79 5.81 5.81 5.79 5.79 5.81 5.79 5.79 5.79 5.79 5.79 5.71 5.71 5.71 5.71 5.71 <t< td=""><td>5.81</td><td>87.0 86.6</td><td>86.8</td><td>1.92 1.95</td><td>1.94</td><td></td><td>5.1 4.3</td><td>4.7</td><td></td></t<>	5.81	87.0 86.6	86.8	1.92 1.95	1.94		5.1 4.3	4.7	
25 Surface 1.0 26.3 32.7 6.02 6.00 5.97 6.00	5.00	89.8 89.2	89.5	2.34 2.39	2.37		3.6 5.6	4.6	
28/10/23 10:51:24 Middle 8.7 26.4 32.7 32.7 5.88 5.87	5.93	87.7 87.4	87.6	2.52 2.58	2.55	2.81	6.7 7.8	7.3	5.5
/ Fine Bottom 16.3 26.4 32.8 32.8 5.76 5.76 5.76	5.76	86.1 86.0	86.1	3.47 3.55	3.51		3.8 5.6	4.7	
25 Surface 1.0 26.5 <u>31.2</u> 31.2 <u>6.51</u> 6.49	6.25	96.6 96.0	96.3	2.49 2.51	2.50		6.5 5.9	6.2	
31/10/23 14:37:12 Middle 9.5 26.5 31.5 6.01 6.01	0.20	89.2 89.0	89.1	2.55 2.57	2.56	2.97	6.3 5.3	5.8	5.7
/ Fine Bottom 18.0 26.4 31.9 31.9 5.88 5.87	5.87	87.4 87.1	87.3	3.84 3.85	3.85]	5.3 4.8	5.1	[



Monitoring Station : TM-FM2

Monitorir	- j	Ambient	IM-FM		Temp	Salini	ty (ppt)	Dissolv	ved Oxygen	(mg/L)		d Oxygen tion (%)	Τι	urbidity (NT	U)	Suspe	nded Solids	s (mg/L)
Date	Time	Temp (°C) / Weather		ng Depth m)	(°C)	Value	Average	Value	Average	Depth-	Value	Average	Value	Average	Depth-	Value	Average	Depth-
		Condition	Surface	1.0	29.3	28.1	28.1	5.71	5.71	average	87.1	87.2	2.38	2.40	average	5.6	4.7	average
03/10/23	14:35:09	28	Middle	8.2	29.2	28.1 28.6	28.7	5.71 5.62	5.59	5.65	87.2 85.8	85.5	2.42 2.78	2.79	2.67	3.8 3.1	4.0	3.9
03/10/23	14.55.05	/ Fine	Widdle			28.8 29.3		5.56 5.40			85.1 82.7		2.80 2.82		2.07	4.8 3.4		0.0
		,	Bottom	15.4	29.2	29.4	29.4	5.38	5.39	5.39	82.6	82.7	2.79	2.81		2.4	2.9	
		29	Surface	1.0	29.7	26.0 26.0	26.0	5.89 5.90	5.90	5.00	89.4 89.5	89.5	1.67 1.69	1.68		3.4 4.0	3.7	
05/10/23	16:35:30		Middle	8.1	29.5	27.4 27.9	27.6	5.43 5.40	5.42	5.66	82.9 82.6	82.8	2.15 2.26	2.21	2.11	3.1 2.7	2.9	3.0
		/ Fine	Bottom	15.3	29.4	30.4	30.4	5.27	5.26	5.26	81.7	81.4	2.43	2.43		2.7	2.5	
			Surface	1.0	27.7	30.4 28.4	28.4	5.24 5.94	5.93		81.1 88.4	88.3	2.43 3.82	3.83		2.2 4.7	4.5	
10/10/23	10:20:06	27	Middle	9.3	27.7	28.4 28.5	28.5	5.92 5.53	5.52	5.73	88.1 82.4	82.2	3.83 3.97	3.98	4.00	4.2 4.4	4.8	3.9
10/10/23	10.20.00	/ Fine	Widdle	3.5	21.1	28.5 28.5	20.5	5.51 5.48	3.52		81.9 81.7	02.2	3.98 4.18	3.30	4.00	5.2 1.9	4.0	0.0
			Bottom	17.7	27.7	28.5	28.5	5.48	5.48	5.48	81.7	81.7	4.19	4.19		3.2	2.6	
		27	Surface	1.0	27.5	28.7 28.7	28.7	5.65 5.65	5.65	5.65	83.9 83.9	83.9	4.28 4.27	4.28		5.8 3.6	4.7	
12/10/23	10:18:58		Middle	9.7	27.5	28.7 28.7	28.7	5.64 5.64	5.64	5.65	83.9 83.9	83.9	4.26 4.22	4.24	4.27	2.9 4.5	3.7	4.4
		/ Fine	Bottom	18.5	27.5	28.7	28.7	5.64	5.64	5.64	83.8	83.8	4.28	4.28		6.8	4.9	
			Ourface	1.0	07.0	28.7 33.1	00.4	5.64 5.69	5.00		83.8 86.4	00.0	4.28 5.08	5.00		3.0 5.6	4.0	
		26	Surface	1.0	27.3	33.1 33.1	33.1	5.67 5.64	5.68	5.66	86.2 85.7	86.3	5.09 5.79	5.09		3.5 3.5	4.6	
14/10/23	13:33:08		Middle	8.4	27.3	33.1	33.1	5.63	5.64		85.6	85.7	5.82	5.81	5.70	5.0	4.3	4.8
		/ Fine	Bottom	15.8	27.4	33.1 33.1	33.1	5.62 5.62	5.62	5.62	85.4 85.4	85.4	6.16 6.23	6.20		5.8 5.1	5.5	
		26	Surface	1.0	27.3	33.0 33.0	33.0	5.92 5.92	5.92		89.8 89.8	89.8	2.80 2.74	2.77		4.5 7.7	6.1	
16/10/23	13:35:57		Middle	8.2	27.3	33.0 33.0	33.0	5.90 5.88	5.89	5.91	89.5 89.3	89.4	3.64 3.65	3.65	4.04	5.2 5.1	5.2	6.8
		/ Fine	Bottom	15.4	27.3	33.0	33.0	5.83	5.83	5.83	88.5	88.5	5.70	5.71		9.0	9.1	
			Surface	1.0	26.8	33.1 33.1	33.1	5.83 6.46	6.44		88.4 97.2	96.9	5.71 3.46	3.47		9.2 5.6	5.7	
18/10/23	16:35:59	26	Middle	8.6	26.8	33.1 33.1	33.1	6.41 6.23	6.22	6.33	96.6 93.9	93.7	3.47 4.45	4.44	4.68	5.8 6.5	7.1	7.0
10/10/20	10.00.00	/ Fine				33.1 33.1		6.21 6.14			93.5 92.6		4.42 6.13		4.00	7.7 6.7		
			Bottom	16.1	26.9	33.1 32.9	33.1	6.13 6.53	6.14	6.14	92.4 97.8	92.5	6.14 3.27	6.14		9.8 4.8	8.3	
		26	Surface	1.0	26.5	32.9	32.9	6.50	6.52	6.43	97.4	97.6	3.24	3.26	-	5.4	5.1	
20/10/23	8:06:15		Middle	8.9	26.5	32.9 32.9	32.9	6.35 6.33	6.34		95.0 94.7	94.9	4.40 4.37	4.39	4.21	6.9 6.7	6.8	5.4
		/ Fine	Bottom	16.8	26.5	33.0 33.0	33.0	6.26 6.24	6.25	6.25	93.7 93.4	93.6	5.02 4.96	4.99		5.2 3.6	4.4	
			Surface	1.0	26.0	33.3	33.3	5.87	5.86		87.3	87.1	1.61	1.62		6.2	7.6	
24/10/23	9:20:55	25	Middle	9.4	26.1	33.3 33.4	33.5	5.85 5.69	5.69	5.77	87.0 84.8	84.8	1.63 1.93	1.95	1.98	8.9 4.5	6.0	7.8
2.,.0,23	0.20.00	/ Fine				33.5 33.6		5.68 5.66			84.7 84.6		1.97 2.37			7.5 9.9		
			Bottom	17.8	26.2	33.6 32.8	33.6	5.66	5.66	5.66	84.6 89.4	84.6	2.38	2.38		10.0	10.0	
		25	Surface	1.0	26.2	32.8	32.8	6.01 5.97	5.99	5.82	88.9	89.1	1.33	1.33		6.2	5.5	
26/10/23	9:23:56		Middle	9.8	26.3	33.4 33.4	33.4	5.66 5.64	5.65		84.7 84.4	84.5	1.82 1.85	1.84	1.72	4.1 4.0	4.1	5.5
		/ Fine	Bottom	18.5	26.3	33.5 33.5	33.5	5.65 5.62	5.64	5.64	84.5 84.1	84.3	1.99 2.01	2.00		6.9 6.9	6.9	
		25	Surface	1.0	26.1	32.8 32.7	32.8	6.28 6.22	6.25		93.3 92.6	93.0	2.25	2.23		5.6 6.4	6.0	
28/10/23	11:06:12		Middle	8.6	26.4	32.8	32.8	5.78	5.78	6.01	86.3	86.3	2.78	2.81	2.82	5.8	6.0	6.2
		/ Fine	Bottom	16.2	26.4	32.8 32.8	32.8	5.77 5.71	5.71	5.71	86.2 85.3	85.3	2.84 3.44	3.43		6.1 6.1	6.8	
						32.8 31.3		5.71 6.49			85.3 96.3		3.42 2.50			7.4 4.4		
		25	Surface	1.0	26.5	31.3 31.5	31.3	6.45 6.21	6.47	6.33	95.7 92.2	96.0	2.46 2.49	2.48		4.0 5.2	4.2	ł
31/10/23	14:21:10	15	Middle	9.3	26.5	31.6	31.5	6.15	6.18		91.2	91.7	2.47	2.48	3.08	5.5	5.4	4.9
		/ Fine	Bottom	17.6	26.4	31.9 31.9	31.9	5.87 5.85	5.86	5.86	87.3 86.9	87.1	4.28 4.27	4.28		4.4 5.7	5.1	



Monitoring Station : TM-FC2

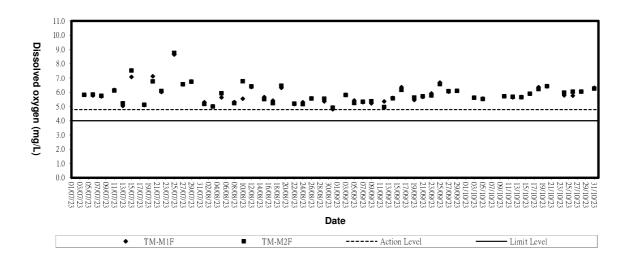
<	Monitorir		Ambient	TM-FG	-				1			Disastus	10				1		
<th< th=""></th<>	Date	Time	Temp (°C) /				Salinit	ty (ppt)	Dissolv	ved Oxygen	(mg/L)			Tu	irbidity (NT	U)	Susper	nded Solids	s (mg/L)
				(1	n)	(°C)		Average		Average			Average		Average			Average	
Image: share			28	Surface	1.0	29.2		28.2		5.64			86.1		2.40			4.1	
<th< th=""></th<>	03/10/23	14:51:06	-	Middle	8.1	29.2	28.6	28.7	5.59	5.57	5.61	85.4	85.1	2.61	2.64	2.58	5.0	5.1	4.3
			/ Fine																-
				Bottom	15.1	29.2		29.4		5.38	5.38	-	82.6		2.69			3.8	
<th< th=""> <th< th=""> <</th<></th<>			29	Surface	1.0	29.7		26.0		5.92			89.8		1.59			3.0	
	05/10/23	16:51:07	20	Middle	82	29.5		28.0		5 41	5.66		82.8		2.32	2 07	-	34	37
	00,10,20	10.01.07	/ Fine	maaro	0.2	20.0		20.0		0.11			02.0		2.02	2.07		0.1	
1m				Bottom	15.4	29.4	30.4	30.4	5.23	5.25	5.25	81.1	81.3	2.26	2.29		5.5	4.8	
1000 1000 <td></td> <td></td> <td>27</td> <td>Surface</td> <td>1.0</td> <td>27.7</td> <td></td> <td>28.4</td> <td></td> <td>5.84</td> <td></td> <td></td> <td>87.0</td> <td></td> <td>3.79</td> <td></td> <td></td> <td>3.0</td> <td></td>			27	Surface	1.0	27.7		28.4		5.84			87.0		3.79			3.0	
	10/10/23	10:00:16		Middle	8.5	27.7		28.5		5.54	5.69	82.5	82.5		3.83	3.93		3.0	3.3
<td></td> <td></td> <td>/ Fine</td> <td></td> <td>ł</td>			/ Fine																ł
<th< td=""><td></td><td></td><td></td><td>Bottom</td><td>16.1</td><td>27.6</td><td></td><td>28.5</td><td></td><td>5.47</td><td>5.47</td><td></td><td>81.3</td><td></td><td>4.17</td><td></td><td></td><td>4.0</td><td></td></th<>				Bottom	16.1	27.6		28.5		5.47	5.47		81.3		4.17			4.0	
1 1 1 1 2 2 2 2 5 2 4 6 3 6 6 6 6 <			27	Surface	1.0	27.5		28.7		6.05	5.00		89.8		4.08			5.1	
index index <td>12/10/23</td> <td>10:10:55</td> <td></td> <td>Middle</td> <td>8.6</td> <td>27.5</td> <td></td> <td>28.7</td> <td></td> <td>5.73</td> <td>5.89</td> <td>-</td> <td>85.3</td> <td>-</td> <td>3.91</td> <td>4.12</td> <td></td> <td>4.7</td> <td>4.4</td>	12/10/23	10:10:55		Middle	8.6	27.5		28.7		5.73	5.89	-	85.3	-	3.91	4.12		4.7	4.4
i i			/ Fine																1
14102 14102 24 310 10 <				Bottom	16.1	27.5		28.7		5.67	5.67		84.3		4.38			3.4	
14102 12.47 14.47 <td></td> <td></td> <td>26</td> <td>Surface</td> <td>1.0</td> <td>27.3</td> <td></td> <td>33.1</td> <td></td> <td>5.70</td> <td>5.07</td> <td></td> <td>86.5</td> <td></td> <td>5.12</td> <td></td> <td></td> <td>7.1</td> <td></td>			26	Surface	1.0	27.3		33.1		5.70	5.07		86.5		5.12			7.1	
	14/10/23	13:47:51		Middle	8.0	27.4		33.1		5.65	5.67		85.9		5.74	5.88		4.0	4.7
<td></td> <td></td> <td>/ Fine</td> <td>Detterre</td> <td>45.4</td> <td>07.4</td> <td></td> <td>00.4</td> <td></td> <td>5.04</td> <td>5.04</td> <td></td> <td>05.0</td> <td></td> <td>0.70</td> <td></td> <td></td> <td></td> <td>1</td>			/ Fine	Detterre	45.4	07.4		00.4		5.04	5.04		05.0		0.70				1
14100 1410 2 3 3 3 5 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3 5 3				Bollom	15.1	27.4		33.1		5.61	5.01		00.3		0.70			3.1	ļ
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			26	Surface	1.0	27.3		33.0		5.89	E 00		89.4		2.82			7.3	
	16/10/23	13:51:16		Middle	8.3	27.3		33.0		5.87	5.00		89.0		3.75	4.08		8.5	6.9
1 1 1 3 1 5 1 1 6 6			/ Fine	Bottom	15.5	27.3		33.1		5.81	5.81		88.2		5.67			49	
18 2 5 5 3 3 6 6 6 7 3 6 7 6 7 7 6 3 6 7 6 3 6 7 7 6 3 6 7 7 6 7 7 6 7 7 6 7 <th7< th=""> 7 7</th7<>	-			Bottom	10.0	27.0				0.01	0.01		00.2		0.07				
14102 141 - 4 - - -			26	Surface	1.0	26.8		33.1		6.14	6.13		92.5	3.49	3.48		9.6	8.5	
1 1 1 1 1 1 3 3 6 0 0 9 9 6 6 9 6 9 6 9 6 9 6 9 6	18/10/23	16:54:11		Middle	7.7	26.9		33.1		6.12			92.2		4.58	4.65		8.1	8.5
ind			/ Fine	Bottom	14.5	26.9	33.1	33.1	6.09	6.09	6.09	91.8	91.8	5.89	5.91		8.5	9.0	1
1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +				a (
201023 823:18 Mide 82.6 32.6 32.9 32.9 6.33 6.34 9.0 94.8 95.0 4.86 4.87 4.83 3.9 3.6 4.7 4.80 4.80 4.80 4.80 4.80 4.80 4.80 4.80 4.80 4.80 4.80 4.80 3.9 3.9 3.0 3.0 6.24 6.24 93.6 93.5 5.18 5.19 5.19 5.19 5.19 5.19 5.19 5.19 5.19 5.19 5.19 5.10 </td <td></td> <td></td> <td>26</td> <td>Surface</td> <td>1.0</td> <td>26.5</td> <td></td> <td>32.9</td> <td></td> <td>6.49</td> <td>6.42</td> <td></td> <td>97.2</td> <td></td> <td>3.54</td> <td></td> <td></td> <td>5.8</td> <td>]</td>			26	Surface	1.0	26.5		32.9		6.49	6.42		97.2		3.54			5.8]
$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	20/10/23	8:23:18		Middle	8.2	26.5		32.9		6.34		-	95.0		4.87	4.53		3.6	4.7
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			/ Fine	Bottom	15.3	26.5		33.0		6.24	6.24		93.5		5.19			4.9	
4 1				Curfooo	1.0	06.0		22.0		6 10			01.0		1.65				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			25	Surface	1.0	20.0		33.Z		0.10	6.10		51.9		1.00			0.0	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	24/10/23	9:03:04	-	Middle	8.6	26.1		33.4		6.03		-	89.8		1.82	1.84		7.5	7.2
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			/ Fine	Bottom	16.2	26.2		33.5		5.70	5.70		85.2		2.06			6.0	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$				Surface	1.0	26.2	32.6	32.6	6.73	6.72		100.1	99.9	1.14	1.16		6.5	6.2	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			25								6.27								
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	26/10/23	9:03:48		Middle	8.8	26.3	33.3	33.3	5.80	5.82		86.7	86.9	1.79	1.79	1.64	5.2	5.9	7.1
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			/ Fine	Bottom	16.6	26.3		33.4		5.78	5.78	-	86.4	-	1.97			9.3	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $				Surface	1.0	26.2	32.8	32.8	6.09	6.05		90.6	90.1	2.46	2.49		5.2	6.0	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	00// 0/22	44.05	25								5.95					6.07			
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	28/10/23	11:23:14	15	Middle	8.4	26.4	32.8	32.8		5.85		87.2	87.4	2.79	2.77	2.86		6.4	6.5
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			/ Fine	Bottom	15.8	26.4		32.8		5.73	5.73	-	85.5	-	3.33			7.0	
31/10/23 14:01:12 Middle 8.8 26.5 31.5 6.17 6.14 / Fine Battom 16.5 26.4 31.8 31.8 5.91 5.90 5.90 87.8 87.6 4.17 4.16 5.2 5.6 5.8			05	Surface	1.0	26.5		31.3		6.45		-	95.7		2.45			2.8	
/ Fine Bottom 165 264 31.8 31.8 5.91 5.90 5.90 87.8 87.6 4.17 4.16 6.3 5.8	31/10/00	14-01-10	20	Middle	0.0	26 F		01 5		E 14	6.30		01.0		0.44	2.04	-	50	47
Bottom 165 264 318 590 590 876 416 58	31/10/23	14.01.12	/ Fine	WIGGIE	0.0	20.0		31.3		0.14			31.2		۷.41	3.01		5.0	4./
			/ 1110	Bottom	16.5	26.4		31.8		5.90	5.90		87.6		4.16			5.8	



Appendix C3

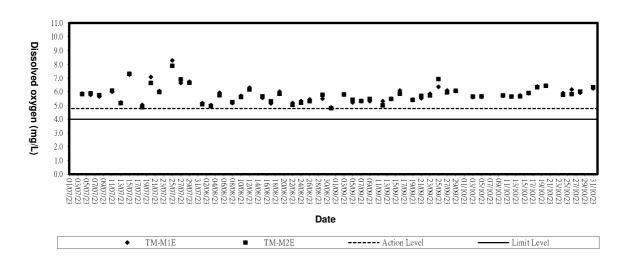
Graphical Plots of Impact Marine Water Quality Monitoring Data





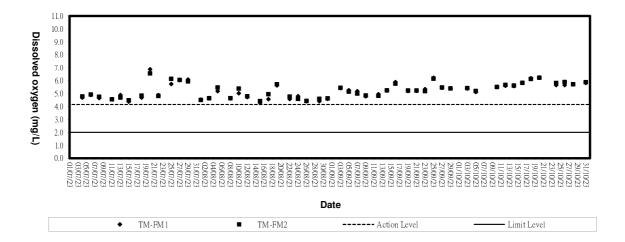
Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide

Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide

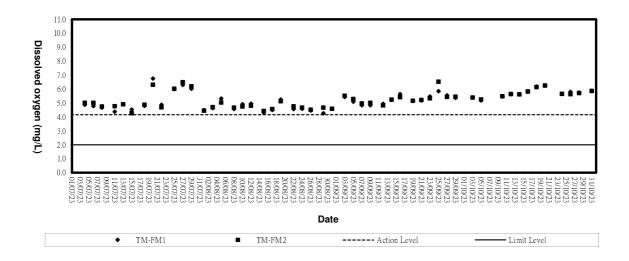




Dissolved Oxygen (Bottom) at Mid-Flood Tide

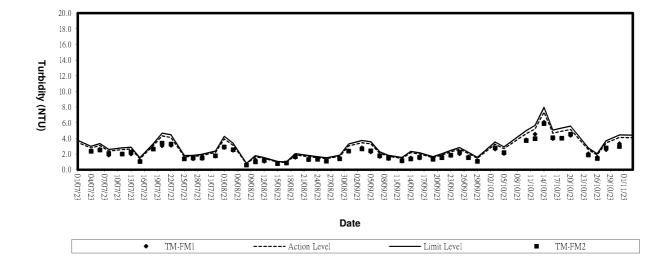


Dissolved Oxygen (Bottom) at Mid-Ebb Tide

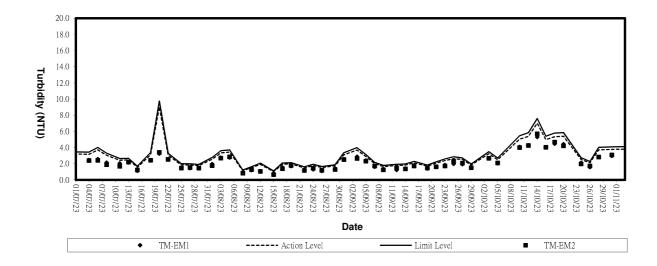




Turbidity (Depth-average) at Mid-Flood Tide

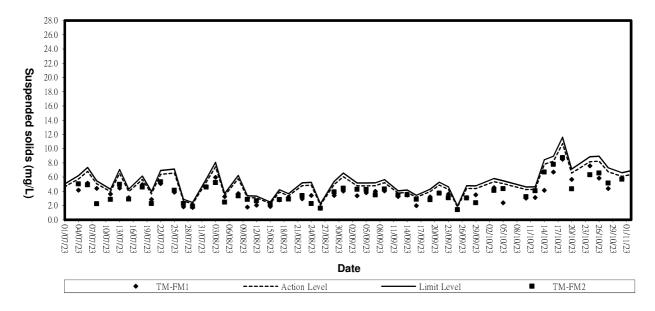


Turbidity (Depth-average) at Mid-Ebb Tide

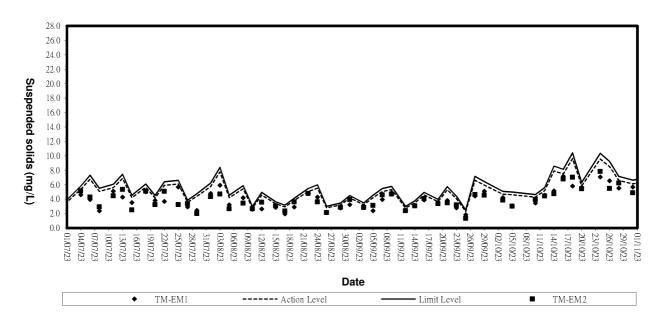








Suspended Solids (Depth-average) at Mid-Ebb Tide





Appendix D1

Calibration Certificates for Impact Noise Monitoring Equipments



6/F Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, Hong Kong

T: +852 2695 6318 F: +652 2695 3944 E: etl@ets-testconsult.com W: www.ets-testconsult.com



Form Q/AS/C/02 Issue 1(1/4) [02/22]

Calibration Certificate

			00407000
		Certificate No.	CSA27669
		Page	: 1 of 2
Information Prov	vided by Customer		
Customer	: ETS - Testconsult Limited		
Address	•	al Centre, 34 - 36 Au Pui Wan S	Street, Fotan, Shatin, Hong Kong
Information of U	Init-under-test (UUT)		
Description	: Sound Level Calibrator		
Manufacturer	; RION	Equipment I.D.	ET/EN/002/01
Туре	: NC-73	Serial No.	10196943
Laboratory Infor	mation		
Lab. Ref. No.	: Q/CAL/22/9442/l	Procedure	CQS/002/A
Date of Calibration	: 7-Nov-2022	Date of Receipt	: 1-Nov-2022
Date of Issue	: 10-Nov-2022	Calibration Location	: Calibration Laboratory
Calibration Con	dition	9	
Ambient Temperature	• ; (20±3) °C	Relative Humidity	: (50±20) %
Stabilizing Time	: 30 minutes	Sampling	; As received
Ambient Pressure	: (1000±5) hPa		
Reference equip	ment		
Street and the second sec	nd calibrator, ET/2801/01		
- Measuring Amplifi	ier, ET/2702/01/01		
- Signal generator,	ET/2503/01		
- Reference Oscillo	scope, ET/2502/01		
Calibration spec	<i>ification</i>		
- To perform the ca	libration of sound level calibrator,		
Calibration resu	<u>II</u>		
- The results are de	stailed on the subsequent pages.		
<u>Remarks</u>			
	sults apply to the particular unit-under-te		Δ
	in this calibration certificate only to the		
	nce for the equipment long term drift, va		
transportation, ove	erloading, mis-handling, or the capability	y of any other laboratory to repe	at the measurement

Calibrated By :

Tommy TAM & Tony MA (Technician)

Approved By: _____CHAN Chi Wai

The results shown in this certificate are traceable to the International System of Units (SI) or recognised measurement standards. This report shall not be reproduced unless with prior written approval from this laboratory.



8/F Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, Hong Kong

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Calibration Certificate

Certificate No. © CSA27669

Page 2 of 2

Calibration Result:

1. Measured Sound Pressure Level:

Nominal Frequency (Hz)	Nominal Output Sound Pressure (dB)	Measured Output (dB)	Expanded Uncertatiny (dB)	Coverage Factor
1000	94.0	94.0	0,13	2.0

2. Actual Output Frequency:

Nominal Frequency	Nominal Output	Measured Output (Hz)	Expanded	Coverage
(Hz)	Sound Pressure (dB)		Uncertatiny (Hz)	Factor
1000	94.0	981.906	0.13	2.0

Remark:

- The uncertainty quoted is based on 95 % confidence level.

- Measured output are mean of three measurements.

End of certificate



8/F Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, Hong Kong

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Form Q/AS/C/01 Issue 1(1/7) [09/21]

Calibration Certificate

Certificate	No,	: CS	A30088

Page

1

; CQS/001/A

9-Jan-2023

Calibration Laboratory

3 ി

Information Provided by Customer : ETS - Testconsult Limited

Customer Address

8/F., Block B, Veristrong Industrial Centre, 34 - 36 Au Pui Wan Street, Fotan, Shatin, Hong Kong ÷

Information of Unit-under-test (UUT)

	Sound Level Meter	Microphone	Pre-amplifier
Manufacturer	RION	RION	RION
Туре	NL-31	UC-53A	NH-21
Equipment I.D. no.	ET/EN/003/12		
Serial No.	00773032	01291	25043
Adaptors used			
Resolution	0.1 dB		

Laboratory Information

: Q/CAL/23/0178/I Lab. Ref. No. Procedure : 11-Jan-2023 Date of Calibration Date of Receipt : 12-Jan-2023. Calibration Location Date of Issue

Calibration Condition

(50 ± 20) % Ambient Temperature : (20 ± 3) °C **Relative Humidity** As received Stabilizing Time : 30 minutes Sampling : (1000 ± 50) hPa Ambient Pressure

Reference equipment

- Multi-function sound calibrator, ET/2801/01

- Signal generator, ET/2503/01

Calibration specification

To perform the calibration of linearity and frequecny response by multi-function sound calibrator.

Calibration result

- The results are detailed on the subsequent pages.

Remarks

- The calibration results apply to the particular unit-under-test only.
- The values given in this calibration certificate only to the values measureed at the time of test & any uncertainties quoted will not include allowance for the equipment long term drift, varifications with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measuremen

Calibrated By:

Tommy TAM &. **Tony MA** (Technician)

Approved By:

CHAN Chi Wai

The results shown in this certificate are traceable to the International System of Units (SI) or recognised measurement standards. This report shall not be reproduced unless with prior written approval from this laboratory.



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Calibration Certificate

Page : 2 of 3

Certificate No. : CSA30088

Calibration Result:

1 Reference Sound Pressure Level : (Unit in: dB)

Ra	nge / Mode		Reference Level	REF Frequency (kHz)	UUT Reading	Deviation	Expanded Uncertatiny	Coverage Factor
	Self-cal	Before	94.0		93.2	-0.8	0.13	2.0
	Range	40 to 130	104.0	1	103.2	-0.8	0.13	2.0
a sat r here.	Mode	Fast	114.0		113.2	-0.8	0.13	2.0
A-Weighting	Self-cal	Before	94.0		93.1	-0.9	0.13	2.0
	Range	40 to 130	104.0	1 1	103.1	-0.9	0.13	2.0
	Mode	Slow	114.0		113.2	-0.8	0.13	2.0
	Self-cal	After	94.0	1	94.0	0.0	0.13	2.0
	Range	40 to 130	104.0		104.0	0.0	0.13	2.0
	Mode	Fast	114.0		114.0	0.0	0.13	2.0
A-Weighting	Self-cal	After	94.0		94.0	0.0	0.13	2.0
	Range	40 to 130	104.0	1	104.0	0.0	0.13	2.0
	Mode	Slow	114.0		114.0	0.0	0.13	2.0
	Self-cal	After	94.0		94.0	0.0	0.13	2.0
	Range	40 to 130	104.0	1	104.0	0.0	0.13	2.0
O Mariah da	Mode	Fast	114.0		114.0	0.0	0.13	2.0
C-Weighting	Self-cal	After	94.0		94.0	0.0	0.13	2.0
-	Range	40 to 130	104.0	1	104.0	0.0	0.13	2.0
	Mode	Slow	114.0		114.0	0.0	0.13	2.0

2 Measurement for other range on reference sound pressure level: (Unit in: dB)

Ra	nge / Mode		Reference Level	REF Frequency (kHz)	UUT Reading	Deviation	Expanded Uncertatiny	Coverage Factor
	Range	20 to 100	94.0 1		94.0	0.0	0.13	2.0
A-Weighting	Mode	Fast	04.0		0-110	010		
A-weighting	Range	0	94.0	1	0.0	-94.0	0.13	2.0
	Mode 0		54.0		0.0	-04.0	0.10	AIG

Remark:

- The uncertainty quoted is based on 95 % confidence level.

- UUT reading are mean of three measurements.

- Deviation = UUT Reading - Reference Level

- Laboratory reference multi-function sound calibrator was used to adjust the "Self cal" reading of UUT.

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Form Q/AS/C/01 Issue 1(3/7) [09/21]

Certificate No.	2	¢s/	1300	B8
Page	2	3	of	3

Calibration Result:

Acoustic Sensitivity and Frequency Response:

3 Frequency Response A-Weighting (Unit in: dB)

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	IEC 61672-1:2002 class 1 Specification
		-	31.5	54.6	54.7	0.1	-39.4 +/- 2.0
			63	67.8	68.0	0.2	-26.2 +/- 1.5
12			125	77.9	78.1	0.2	-16.1 +/- 1.5
			250	85.4	85.6	0.2	-8.6 +/- 1.4
			500	90.8	90.9	0.1	-3.2 +/- 1.4
40 to 130	Fast	94	1000 (Ref.)	94.0	94.0	0.0	0 +/- 1.1
			2000	95.1	94.9	-0.2	+1.2 +/- 1.6
			4000	94.9	94.0	-0.9	+1.0 +/- 1.6
			8000	92.9	90.2	-2.7	-1.1 (+2.1 ; - 3.1)
			12500	89.7	85.3	-4.4	-4.3 (+3.0 ; -6.0)
			16000	87.5	79.4	-8.1	-6.6 (+3.5 ; -17.0)

Frequency Response C-Weighting : (Unit in: dB) 4

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	JEC 61672-1:2002 class 1 Specification
			31.5	91.0	91.0	0.0	-3.0 +/- 2.0
			63	93.2	93.3	0.1	-0.8 +/- 1.5
			125	93.8	94.0	0.2	-0.2 +/- 1.5
			250	94.0	94.2	0.2	0.0 +/- 1.4
			500	94.0	94.1	0.1	0.0 +/- 1.4
40 to 130	Fast	94	1000 (Ref.)	94.0	94.0	0.0	0 +/- 1.1
			2000	93.7	93.5	-0.2	-0.2 +/- 1.6
			4000	93.1	92.2	-0.9	-0.8 +/- 1.6
			8000	91.0	88.3	-2.7	-3.0 (+2.1 ; -3.1)
			12500	87.8	83.4	-4.4	-6.2 (+3.0 ; -6.0)
		- V - 1	16000	85.6	77.4	-8.2	-8.5 (+3.5 ; -17.0)

- Expended uncertainty of measurement:

	Range (Hz)	(dB)	Range (Hz)	(dB)
94 dB	31.5	0.15	2000	0.13
	63	0.13	4000	0.13
	125	0.13	8000	0.14
	250	0.12	12500	0.14
	500	0.12	16000	0.14
	1000	0.13		

Remark:

IEC 61672 class 1 - Manufacturer specification:

- Signal level at 1000 Hz is set as indication of reference sound pressure level.

- The uncertainty quoted is based on 95 % confidence level with coverage factor k=2.0.

- UUT reading are mean of three measurements.

- Deviation = UUT Reading - Reference Level

End of certificate



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Calibration Certificate

Certific	ate No.
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CSA34546

Page

1 of

3

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Information Provided by Customer

Customer ; ETS - Testconsult Limited

Address

: 8/F., Block B, Veristrong Industrial Centre, 34 - 36 Au Pui Wan Street, Fotan, Shatin, Hong Kong

Information of Unit-under-test (UUT)

	Sound Level Meter	Microphone	Pre-amplifier
Manufacturer	RION	RION	RION
Туре	NL-52	UC-59	NH-25
Equipment I.D. no.	ET/EN/003/17	-	*
Serial No.	00264519	03558	64644
Adaptors used			
Resolution	0.1 dB	4	

Laboratory Information

Lab. Ref. No.: Q/CAL/23/5141/IProcedure: CQS/001/ADate of Calibration: 28-Jun-2023Date of Receipt: 21-Jun-2023Date of Issue: 28-Jun-2023Calibration Location: Calibration Laboratory

Calibration Condition

 Ambient Temperature
 : (20 ± 3) °C
 Relative Humidity
 : (50 ± 20) %

 Stabilizing Time
 : 30 minutes
 Sampling
 : As received

 Ambient Pressure
 : (1000 ± 50) hPa
 : As received

Reference equipment

- Multi-function sound calibrator, ET/2801/01

- Signal generator, ET/2503/01

Calibration specification

- To perform the calibration of linearity and frequency response by multi-function sound calibrator.

Calibration result

- The results are detailed on the subsequent pages.

<u>Remarks</u>

- The calibration results apply to the particular unit-under-test only.
- The values given in this calibration certificate only to the values measureed at the time of test & any uncertainties quoted will
 not include allowance for the equipment long term drift, varifications with environmental changes, vibration and shock during
 transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement.

Calibrated By :

Tony MA (Technician)

Approved By: CHAN Chi Wai

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Calibration Certificate

Certificate No. : CSA34546

Page : 2 of 3

Calibration Result:

Reference Sound Pressure Level : (Unit in: dB) 1

Range / Mode		Reference Level	REF Frequency (kHz)	UUT Reading	Deviation	Expanded Uncertatiny	Coverage Factor	
	Self-cal	Before	94.0		93.7	-0.3	0.13	2.0
A-Weighting	Range	30 to 130	104.0	1	103.7	-0.3	0.13	2.0
	Mode	Fast	114.0		113.7	-0.3	0.13	2.0
A-Weighting Mode Self-cal	After	94.0		94.0	0.0	0.13	2.0	
	Range	30 to 130	104.0	1	104.1	0.1	0.13	2.0
	Mode	Fast	114.0		114.1	0.1	0.13	2.0
	Self-cal	After	94.0		94.0	0.0	0.13	2.0
	Range	30 to 130	104.0	1	104.1	0.1	0.13	2.0
	Mode	Slow	114.0		114.1	0.1	0.13	2.0
	Self-cal		94.0	1	94.0	0.0	0.13	2.0
	Range	30 to 130	104.0		104.1	0.1	0.13	2.0
A.W. 1.1.4	Mode	Fast	114.0		114.0	0.0	0.13	2.0
C-Weighting	Self-cal	-	94.0		94.0	0.0	0.13	2.0
	Range	30 to 130	104.0	1	104.1	0.1	0.13	2.0
	Mode	Slow	114.0		114.0	0.0	0.13	2.0
	Self-cal	-	94.0		94.0	0.0	0.13	2.0
	Range	30 to 130	104.0	1	104.1	0.1	0.13	2.0
T 111 1 1 1	Mode	Fast	114.0		114.1	0.1	0.13	2.0
Z-Weighling	Self-cal		94.0		94.0	0.0	0.13	2.0
1. A.	Range	30 to 130	104.0	1	104.1	0.1	0.13	2.0
	Mode	Slow	114.0		114.0	0.0	0.13	2.0

Remark:

- The uncertainty quoted is based on 95 % confidence level.

- UUT reading are mean of three measurements.

- Deviation = UUT Reading - Reference Level

- Laboratory reference multi-function sound calibrator was used to adjust the "Self cal" reading of UUT.



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Form Q/AS/C/01 Issue 1(3/7) [09/21]

Calibration Certificate

CSA34546 Certificate No. 3 of 3 Page 2

Calibration Result:

Acoustic Sensitivity and Frequency Response:

2 Frequency Response A-Weighting (Unit in: dB)

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	Expanded Uncertainty	Coverage Factor			
			31.5	54.6	40.5	-14.1	0.29	2.6			
			63	67.8	57.2	-10.6	0.22	2,3			
		125	77.9	72.2	-5.7	0.13	2.0				
		94	94		1.1.1	250	85.4	83,6	-1.8	0.12	2.0
				500	90,8	90.9	0.1	0.12	2.0		
30 to 130	Fast			94	94	94	94	1000 (Ref.)	94.0	94.0	0.0
			2000	95.1	94.0	-1,1	0.13	2.0			
			4000	94,9	92,3	-2,6	0.13	2.0			
				8000	92.9	85.4	-7.5	0.14	2.0		
		12500	89.7	76.0	-13,7	0.14	2.0				
		16000	87.5	71,6	-15.9	0.16	2.0				

3 Frequency Response C-Weighting (Unit in: dB)

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	Expanded Uncertainty	Coverage Factor													
		31.5	91.0	74.6	-16.4	0.22	2.3														
		63	93.2	82.4	-10.8	0.15	2.0														
		125	93.8	. 88.1	-5.7	0.15	2.0														
		94	94													250	94.0	92.2	-1.8	0.14	2.0
				500	94.0	94.1	0.1	0.12	2.0												
30 to 130	Fasl			94	94	1000 (Ref.)	94.0	94.0	0.0	0.13	2.0										
			2000	93.7	92.6	-1.1	0,13	2.0													
			4000	93.1	90.5	-2.6	0.13	2.0													
		8000	91.0	83.5	-7.5	0.14	2.0														
	9	12500	87.8	74.1	-13.7	0,16	2.0														
	j i	16000	65.6	69.8	-15.8	0.20	2.2														

Frequency Response Z-Weighting (Unit in: dB) 4

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	Expanded Uncertainty	Coverage Factor									
			31.5	94.0	77.6	-16.4	0.14	2.0									
			63	94.0	83.2	-10.8	0.15	2.0									
			125	94.0	88.3	-5.7	0.13	2.0									
												250	94.0	92.2	-1.8	0.14	2.0
		500	94.0	94.0	0.0	0.12	2.0										
30 to 130	Fast	94	94	1000 (Ref.)	94.0	94.0	0.0	0.13	2.0								
			2000	94.0	92.8	-1.2	0.13	2.0									
			4000	94.0	91.3	-2.7	0.13	2.0									
		8000	94.0	86.4	-7.6	0.14	2.0										
			12500	94.0	80.7	-13.3	0.14	2.0									
			16000	94.0	79.4	-14.6	0.14	2.0									

Remark:

- Signal level at 1000 Hz is set as indication of reference sound pressure level.

- The uncertainty quoted is based on 95 % confidence level with coverage factor k=2.0.

- UUT reading are mean of three measurements.

- Deviation = UUT Reading - Reference Level



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Form Q/AS/C/01 Issue 1(1/7) [09/21]

Calibration Certificate

Certificate N	۱o. ÷	CSA32590
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Page

Information Provided by Customer Customer : ETS - TESTCONSULT LIMITED

Customer Address

: 8/F., Block B, Veristrong Industrial Centre, 34 - 36 Au Pui Wan Street, Fotan, Shatin, Hong Kong

Information of Unit-under-test (UUT)

	Sound Level Meter	Microphone	Pre-amplifier
Manufacturer	RION	RION	
Туре	NL-52	UC-59	NH-25
Equipment I.D. no.	ET/EN/003/18	•	
Serial No.	00264520	09668	64646
Adaptors used	96	*	
Resolution	0.1 dB		*

Laboratory Information

Lab. Ref. No. : Q/CAL/23/2956/I Date of Calibration : 19-Apr-2023 Date of Issue : 20-Apr-2023

Tioeedale	
Date of Receipt	
Calibration Location	

Procedure

: CQS/001/A : 13-Apr-2023

: Calibration Laboratory

Calibration Condition

Ambient Temperature	: (20 ± 3) °C	Relative Humidity	: (50 ± 20) %
Stabilizing Time	: 30 minutes	Sampling	: As received
Ambient Pressure	: (1000 ± 50) hPa		

Reference equipment

- Multi-function sound calibrator, ET/2801/01

- Signal generator, ET/2503/01

Calibration specification

- To perform the calibration of linearily and frequency response by multi-function sound calibrator.

Calibration result

- The results are detailed on the subsequent pages.

<u>Remarks</u>

- The calibration results apply to the particular unit-under-test only.
- The values given in this calibration certificate only to the values measureed at the time of test & any uncertainties quoted will
 not include allowance for the equipment long term drift, varifications with environmental changes, vibration and shock during
 transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement

Calibrated By :

Tommy TAM (Technician)

Approved By:

CHAN Chi Wai

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Form Q/AS/C/01 Issue 1(2/7) [09/21]

Page : 2 of 3

Calibration Certificate

Certificate No. :: CSA32590

Calibration Result:

1 Reference Sound Pressure Level : (Unit in: dB)

Ra	Range / Mode			REF Frequency (kHz)	UUT Reading	Deviation	Expanded Uncertatiny	Coverage Factor
	Self-cal	Before	94.0		94.8	0.8	0.13	2.0
A-Weighting	Range	30 to 130	104.0	1	104.8	0.8	0.13	2.0
	Mode	Fast	114.0		114.8	0.8	0.13	2.0
	Self-cal	After	94.0		94.0	0.0	0.13	2.0
	Range	30 to 130	104.0	1	104.1	0.1	0.13	2.0
A-Weighting	Mode	Fast	114.0		114.0	0.0	0.13	2.0
	Self-cal	After	94.0		94.0	0.0	0.13	2.0
	Range	30 to 130	104.0	1	104.1	0.1	0.13	2.0
	Mode	Slow	114.0		114.0	0.0	0.13	2.0
	Self-cal	After	94.0	1	94.0	0.0	0,13	2.0
	Range	30 to 130	104.0		104.0	0.0	0.13	2.0
A.4	Mode	Fast	114.0		114.0	0.0	0.13	2.0
C-Weighling	Self-cal	After	94.0		94.0	0.0	0.13	2.0
	Range	30 to 130	104.0	1	104.0	0.0	0.13	2.0
	Mode	Slow	114.0		114.0	0.0	0.13	2.0
	Self-cal	After	94.0		94.0	0.0	0.13	2.0
	Range	30 to 130	104.0	1	104.0	0.0	0.13	2.0
	Mode	Fast	114.0		114.0	0.0	0.13	2.0
Z-Weighting	Self-cal	After	94.0		94.0	0.0	0.13	2.0
	Range	30 to 130	104.0	1	104.0	0.0	0.13	2.0
	Mode	Slow	114.0		114.0	0.0	0.13	2.0

Remark:

- The uncertainty quoted is based on 95 % confidence level.

- UUT reading are mean of three measurements.

- Deviation = UUT Reading - Reference Level

- Laboratory reference multi-function sound calibrator was used to adjust the "Self cal" reading of UUT,



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Calibration Certificate

Certificate No.	2	CS/	1325	90
Page	*	3	of	3

Calibration Result:

Acoustic Sensitivity and Frequency Response:

2 Frequency Response A-Weighting (Unit in: dB)

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	IEC 61672-1:2002 class 1 Specification
			31.5	54,6	54.7	0.1	-39.4 +/- 2.0
			63	67.8	67.9	0.1	-26.2 +/- 1.5
			125	77.9	78.0	0.1	-16.1 +/- 1.5
		i i	250	86.4	85.4	0.0	-8.6 +/- 1.4
		i i	500	90.8	90.8	0.0	-3.2 */- 1.4
30 to 130	Fast	94	1000 (Ref.)	94.0	94.0	0.0	0 +/- 1.1
			2000	95.1	95.2	0.1	+1.2 +/- 1.6
		1 1	4000	94,9	94.9	0.0	+1.0 +/- 1.6
			0000	92.9	92.0	-0.9	-1.1 (+2.1 ; - 3.1)
			12500	89.7	85.1	-4.6	-4.3 (+3.0 ; -6.0)
			16000	87.5	79.8	-7.7	-6.6 (+3.5 ; -17.0)

3 Frequency Response C-Weighting : (Unit in: dB)

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	IEC 61672-1:2002 class 1 Specification
			31.5	91.0	90.9	-0.1	-3.0 +/- 2.0
			63	93.2	93.2	0.0	-0.8 +/- 1.5
		1	125	93.8	93.9	0.1	-0.2 +/- 1.5
		250	94.0	94.0	0.0	0.0 +/- 1.4	
			500	94.0	94.0	0.0	0.0 +/- 1.4
30 to 130	Fast	94	1000 (Ref.)	94.0	94.0	0.0	0 +/- 1.1
			2000	93.7	93.8	0.1	-0.2 +/- 1.6
			4000	93.1	93.1	0.0	-0.0 +/- 1.6
			0000	91.0	90.1	+0.9	-3.0 (+2.1 ; -3.1)
			12500	87.8	83.2	~4.6	-6.2 (+3.0 ; -6.0)
			16000	85.6	77.9	-7.7	-8.5 (+3.5 ; -17.0)

4 Frequency Response Z-Weighting : (Unit in: dB)

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	IEC 61672-1:2002 class 1 Specification	
			31.5	94.0	94.0	0.0	0.0 +/- 2.0	
			63	94.0	94.0	0.0	0.0 +/- 1.5	
			125	94.0	94.0	0.0	0.0 +/- 1.5	
				250	94.0	94.0	0.0	0.0 +/- 1.4
			500	94.0	94.0	0.0	0.0 +/- 1.4	
30 to 130	Fast	94	1000 (Ref.)	94.0	94.0	0.0	0 +/- 1.1	
			2000	94.0	94.0	0.0	0.0 +/- 1.6	
		1	4000	94.0	93.9	0.0	0.0 +/- 1.6	
			8000	94.0	93.0	-1.0	0.0 (+2.1 ; -3.1)	
			12500	94.0	89.7	-4.3	0.0 (+3.0 ; -6.0)	
			16000	94.0	87.6	-6.4	0.0 (+3.5 ; -17.0)	

- Expended uncertainty of measurement:

[Range (Hz)	(dB)	Range (Hz)	(dB)
	31.5	0.15	2000	0.13
i i	63	0.15	4000	0.13
	125	0.15	8000	0.14
94 dB	250	0.14	12500	0.14
1	500	0.12	16000	0.14
	1000	0.13		

Remark:

- Signal level at 1000 Hz is set as indication of reference sound pressure level.

- The uncertainty quoted is based on 95 % confidence level with coverage factor k=2.0.

IEC 61672 class 1

- UUT reading are mean of three measurements.

- Deviation = UUT Reading - Reference Level

Manufacturer specification:



Appendix D2

Impact Noise Monitoring Results



Day-time Noise Monitoring`

Monitoring Location: TM-RN1 *

Data	Start Sampling	Noi	se Level dB	(A)	Wind	Major Noise	Weather	
Date	Time (hh:mm)	L _{eq(30min)}	L_{10}	L_{90}	Speed (m/s)	Sources	Condition	
3/10/2023	11:00	59.4	61.6	56.2	0.2	General site work	Fine	
5/10/2023	11:00	58.9	60.8	55.3	0.2	General site work	Fine	
10/10/2023	13:00	59.5	61.1	56.3	0.2	General site work	Fine	
12/10/2023	13:00	60.5	62.1	57.3	0.2	General site work	Fine	
17/10/2023	9:15	57.8	59.4	54.1	0.2	General site work	Fine	
19/10/2023	13:00	59.6	61.2	56.4	0.2	General site work	Cloudy	
24/10/2023	11:00	59.5	62.0	56.3	0.2	General site work	Fine	
26/10/2023	13:00	59.4	61.0	55.9	0.2	General site work	Fine	
31/10/2023	11:00	58.6	60.2	56.4	0.2	General site work	Fine	

Remark: Since Lands Department did not approve us to enter their own area where the noise monitoring stations TM-N1 located due to the security, noise monitoring was carried out at noise monitoring stations TM-RN1 (refer to the figure 3 attached) in this reporting month.

Monitoring Location: TM-RN2 *

Date	Start Sampling	Noi	se Level dB	(A)	Wind Speed	Major Noise Sources	Weather Condition
	Time (hh:mm)	L _{eq(30min)}	L_{10}	L ₉₀	(m/s)		
3/10/2023	11:35	58.3	60.4	55.7	0.2	General site work	Fine
5/10/2023	11:35	57.4	59.6	54.8	0.2	General site work	Fine
10/10/2023	13:35	58.4	60.6	55.8	0.2	General site work	Fine
12/10/2023	13:35	59.4	61.6	56.8	0.2	General site work	Fine
17/10/2023	9:20	57.2	58.8	53.8	0.2	General site work	Fine
19/10/2023	13:35	58.5	60.7	55.9	0.2	General site work	Cloudy
24/10/2023	11:35	58.0	59.6	55.8	0.2	General site work	Fine
26/10/2023	13:35	58.3	60.5	54.7	0.2	General site work	Fine
31/10/2023	11:00	58.5	61.4	55.9	0.2	General site work	Fine

Remark: Since Lands Department did not approve us to enter their own area where the noise monitoring stations TM-N2 located due to the security, noise monitoring was carried out at noise monitoring stations TM-RN2 (refer to the figure 3 attached) in this reporting month.

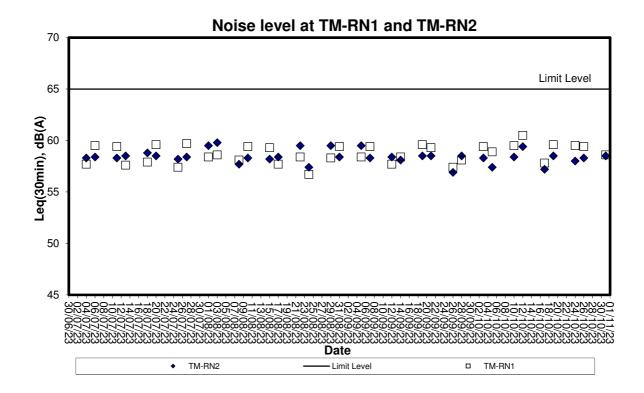


Appendix D3

Graphical Plots of Impact Noise Monitoring Data



Noise Monitoring (Day-time)





Appendix E

Weather Condition

	-		eleonolog			-			
	Mean				Mean	Mean	Total	Prevailing	Mean
	Pressure	Ai	r Temperatı	ıre	Dew	Relative	Rainfall	Wind	Wind
	(hPa)				Point	Humidity	(mm)	Direction	Speed
Day		Absolute	Mean	Absolute	(deg. C)	(%)		(degrees)	(km/h)
		Daily	(deg.C)	Daily					
		Max	(deg.C)	Min					
		(deg. C)		(deg. C)					
- 1	1000.0	(deg. c) 34	30		0E 4	77		00	10 F
1	1009.8	-		28	25.4	77	-	90	10.5
2	1011.3	32.3	29.5	27.9	24.7	76	0.4	80	26.1
3	1010.6	31.4	29.3	27.7	25.1 25.1	78 73	Trace	90 270	11.5
4 5	1009	34.6	30.8	28.3			-		12.8
	1007.3	34.1	30.5	28.5	21.4	58	-	350	27.2
6 7	1008.3 1008.1	32.2	28.3 25.1	26.7	20.3 20.2	62 74	Trace	360 350	30.2
		27.2		23.5			1.9		48.8
8	1008.1	25.1	24.2	22.7	21.9	87	92.2	360	71.3
9	1013.2	25	24.5	23.4	23.4	94	369.7	60	48.3
10	1015.6	26.9	25.3	23.8	22.1	83	2.3	60	39.7
11	1016.9	29.2	25.6	23.7	20.7	75 72	-	10	25.3
12	1017.6	29.2	25.7	23.5	20.3			10	21
13	1015.5	30.2	26.7	24.8	20	67	-	10	18.7
14	1013.2	30	26.6	24.7	19.6	66 72	-	360 70	13.3
15 16	1013.3 1014.9	29.9 28.9	26.9 26.5	25.1 25.4	21.4 20.6	72	0.1	70	21.6
16							-	-	39.6
17	1015.4 1015.2	28.2 25.4	25.8 24.6	24.5 23.4	17.7 21.8	61 85	Trace 38.3	60 70	47.7 50.3
18	1015.2	25.4 26	24.6	23.4	21.0	91	27.9	80	32.8
20	1014.7	27.6	25.9	24.6	23.7	82	0.2	60	25.9
20	1015.2	27.0	23.3	24.0	18.8	76	Trace	10	32.1
21	1018.4	27.8	23.5	22.4	18.8	70	Trace	20	22.9
22	1017.4	27.8	24.5	23.8	21.5	77	Trace	70	22.9
23	1017.4	30.1	26.8	23.8	22.2	76	-	60	22.2
24	1015.5	29.7	26.6	25.3	22.2	80	-	60	18.7
25	1013.5	29.7	26.2	23.3	22.0	78		70	17.3
20	1014.0	29.2	26.6	24.0	22.1	81	_	70	17.5
28	1014.8	23.0	25.8	24.3	23.1	85	9.5	80	24.4
20	1014.0	27.1	25.3	24.1	21.3	79	3.5	80	30
30	1017.1	29.3	26.1	24.6	21.3	77	Trace	80	19.3
30	1017.1	28.6	25.8	24.0	19.9	70	-	80	29.5
51	1010.4	20.0	20.0	27.1	19.9	10	-	00	20.0

Daily Extract of Meteorological Observations , October 2023 - Tuen Mun

Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected



Appendix F

Event-Action Plans

	Contractor		 Rectify any unacceptable practise Amend working methods if appropriate 	 Submit proposals for remedial actions to IC(E) within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate 	 Take Immediate action to avoid further exceedance Submit proposals for remedial actions to fC(E) within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate.
LITY EXCEEDANCE	Ē		1. Notify Contractor	 Confirm receipt of notification of fallure in writing Notify the Contractor Ensure remedial measures property implemented 	 Confirm receipt of notification of faiture in writing Notify the Contractor Ensure remedial measures properly implemented
EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE ACTION			 Check monitoring data submitted by the ET Check contractor's working method 	 Check monitoring data submitted by the ET Leader Check the Contractor's working method Check the Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise the ER on the effectiveness of the proposed remedial measures Supervise implementation of remedial measures 	 Check monitoring data submitted by the ET Leader Check Contractor's working method Check Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise the ER on the effectiveness of the proposed remedial measures Supervise implementation of remedial measures
E		EI Leader	 Identify source, investigate the causes of exceedance and propose remedial measures Inform ER, IC(E) and Contractor Repeat measurement to confirm finding Increase monitoring frequency to daily 	rrce, investigate the causes nce and propose remedial :) and Contractor asurements to confirm onitoring frequency to daily in IC(E) and Contractor on ctions nce continues, arrange th IC(E) and ER.	 Identify source, investigate the causes of exceedance and propose remedial measures Inform ER, Contractor and EPD Repeat measurement to confirm finding A. Increase monitoring frequency to daily for Assess the effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results
EVENT	I		1. Exceedance for one sample	2. Exceedance for two or more consecutive samples	1. Exceedance for one sample

		EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE		Y EXCEEDANCE	
		ACTION			
	ET Leader	IC(E)		ER	Contractor
Ž	Identify source, investigate the causes	1. Discuss amongst ER, ET and Contractor on	÷	Confirm receipt of notification	1. Take Immediate action to
Ъ	of exceedance and propose remedial	the potential remedial actions		of failure in writing	
Ĕ	measures	2. Review Contractor's remedial actions	ŝ	Notify Contractor	2. Submit proposals for remediat
ž	Notify IC(E), ER, EPD and Contractor	whenever necessary to assure their	ė	In consultation with the IC(E),	actions to IC(E) within 3
ď	Repeat measurement to confirm	effectiveness and advise the ER accordingly		agree with the Contractor on	working days of notification
g	lindina	3. Supervise the implementation of remediat		the remedial measures to be	Implement the agreed
Ē	Increase monitoring frequency to daily	measures		implemented	proposals
Ö	Carry out analysis of contractor's		4	Ensure remedial measures	Resubmit proposals if
ž	working procedures to determine			are property implemented	problem still not under control
8	possible mitigation to be implemented		ഗ്	If exceedances continues,	Stop the relevant activity of
4	Arrance meeting with IC(E) and ER to			consider what portion of the	works as determined by the
÷	discuss the remedial actions to be			work is responsible and	ER until the exceedance is
g	taken			instruct the Contractor to stop	abated
Ř	Assess effectiveness of Contractor's			that portion of work until the	•
e	remedial actions and keep IC(E), EPD	•		exceedance is abated	
ā	and ER informed of the results				
#	if exceedance stops, cease additional				
F	monitoring				

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	Contractor	 Submit noise mitigation proposals to IC(E). Implement noise mitigation proposals. 	 Take immediate action to avoid further exceedance Submit proposals for remedial actions to IC(E) within 3 working days of notification. Implement the agreed proposals. Resubmit proposals if problem still not under control. Stop the relevant activity of works as determined by the ER until the exceedances is abated. 	
	ЯЛ	 Confirm receipt of notification of failure in writing. Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. Ensure remedial measures are properly implemented. 	 Confirm receipt of notification of failure in writing. Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. Ensure remedial measures are properly implemented. If exceedances continue, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedances is abated. 	
EVENT/ACTION PLAN FOR NOISE EXCEEDANCE ACTION	IC(E)	 Review the analysed results submitted by the ET. Review the proposed remedial measures by the Contractor and advise the ER accordingly. Supervise the implementation of remedial measures. 	 Discuss amongst the ER, the ET Leader and the Contractor on the potential remedial actions. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. Supervise the Implementation of remedial measures. 	
	ET Leader	I the Contractor. Ion. f investigation to ontractor. intractor and measures. infrequency to ectiveness	 Notify the IC(E), the ER, the EPD and the Contractor. Identify source. Repeat measurement to confirm findings. Repeat measurement to confirm findings. Increase monitoring frequency. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. Inform the IC(E), the ER and the EPD the causes & actions taken for the exceedances. Assess effectiveness of Contractor's remedial actions and keep the IC(E), the EPD and the ER informed of the results If exceedance due to the construction works stops, cease additional monitoring 	
EVENT		Action Level	Limit Levej	

			1		ξ		Į		
				ACTION	Ň				Т
<u> </u>		ET Leader	L	Contractor		ER		IEC	T
Action level	÷	Identify source(s) of impact:	-	Notify the ER and IEC in writing	÷.	Notify EPD and other relevant	.	Check monitoring data	
papa	5	Reneat in-situ measurement to		within 24 hours of identification of		governmental agencies in writing		submitted by ET	
	i	confirm findings		exceedance		within 24 hours of the	2	Confirm ET assessment if	
- day	¢	Notify Contractor in writing within	~	Rectify unacceptable practice:		identification of the exceedance		exceedance is due / not due	æ
	÷	24 hours of Identification of the	ं लं	Check all plant and equipment:	,	Discuss with IEC, ET and		to the works	
			4	Submit investigation report to IEC		Contractor on the proposed	ಲ	Discuss with ET, ER and	
	Þ	Check monitoring data, all plant.	:	and ER within 3 working days of		mitigation measures;		Contractor on the mitigation	_
	f	automent and Contractor's		the identification of an	č	Require contractor to propose		measures	
		working methods:		exceedance	;	remedial measures for the	4	Review contractor's	
	¢	Carry out investigation	ŝ	Consider changes of working		analysed problem if related to the		mitigation measures	
	່	Report the results of investigation	i	method if exceedance is due to		construction works		whenever necessary to	
	;	In the Contractor within 3 working	_	the construction works	4.	Ensure remedial measures are		ensure their effectiveness	
		clave of identification of	ý	Discuss with ET. IEC and ER and		property implemented		and advise the ER	
		avreadance and advise		propose mitigation measures to	ഗ	Assess the effectiveness of the		accordingly	
		contractor if exceedance is due to		IEC and ER if exceedance is due	_	mitigation measure	ഗ്	Supervise the	
	_	contractor's construction works		to the construction works within 4		1		implementation of mitigation	c
	2.	Discuss mitigation measures with		working days of identification of				measures .	
		Contractor if exceedance is due		an exceedance					
<u> </u>		to the construction works within 4	~	Implement the agreed mitigation					
		working days		measures within reasonable time					
	ω	Repeat measurement on next day		scale					
		of exceedance if exceedance is							
		due to the construction works							٦

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Event	<u> </u>			EVENT AND ACTION PLAN FOR WATER QUALITY	N TO	R WATER QUALITY		
				ACTION	N			
	ŀ	ET Leader		Contractor		ER	IEC	0
Action level	÷.	Identify source(s) of impact;	-	Notify IEC and ER in writing	~ :	Notify EPD and other relevant	1. Check monitoring data	itoring data
being	R	Repeat in-situ measurement		within 24 hours of		governmental agencies in	submitted by ET	y ET
exceeded by		to confirm findings		identification of exceedance		writing within 24 hours of the	2. Confirm ET	Confirm ET assessment
more than one	က်	Notify Contractor in writing	2			identification of the	if exceedance is due	ce is due /
consecutive		within 24 hours of	က်	Check all plant and		exceedance	not due to the works	he works
sampling days		identification		equipment;	ы М	Discuss with IEC, ET and	3. Discuss with	Discuss with ET, ER and
	4	Check monitoring data, all	4			Contractor on the proposed	Contractor on the	on the
		plant, equipment and		methods;		mitigation measures;	mitigation measures.	neasures.
		Contractor's working methods;	ഗ്		က်	Require contractor to propose	4. Review contractor's	itractor's
	ശ്			investigation to IEC and ER		remedial measures for the	mitigation measures	neasures
	ശ			within 3 working days of the		analysed problem if related to	whenever n	whenever necessary to
		investigation to the Contractor		identification of an		the construction works	ensure their	
		within 3 working days of		exceedance	4	Ensure remedial measures	effectivenes	effectiveness and advise
		identification of exceedance	ö	Disc		are properly implemented		ordingly
		and advise contractor if		and propose mitigation	ທ່	Assess the effectiveness of	5. Assess the	Assess the effectiveness
		exceedance is due to		measures to IEC and ER		the mitigation measure	of the implemented	mented
		contractor's construction		within 4 working days of			mitigation measures.	neasures.
		works		identification of an				
	~			exceedance				
		with IEC and Contractor within	~	Implement the agreed				
<u>,</u>		4 working of identification of		mitigation measures within				
		an exceedance		reasonable time scale		-		
	ю	Ensure mitigation measures						
		are implemented;						
	တ်	Prepare to increase the						
		monitoring frequency to daily;						
	ő							
		day of exceedance.						

EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE	
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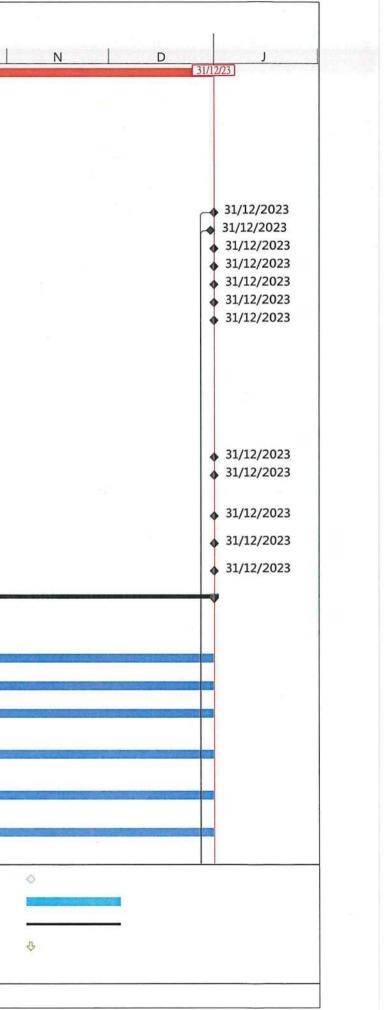
Event		EVEN	ĭ₹	EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE	ATE	R QUALITY EXCEEDANCI	ш		
				ACTION	N				-
• •••••••••••••••••••••••••••••••••••••		ET Leader		Contractor		ER		IEC	
Limit Level	F	Repeat in-situ measurement	-	Notify ER and IEC in writing	÷	Notify EPD and other relevant	÷	Check monitoring data	
beina				within 24 hours of the		governmental agencies in		submitted by ET	
exceeded by	2			Identification of the		writing within 24 hours of	ri,	Confirm ET assessment	
more than one	i m	_		exceedance and		identification of exceedance		if exceedance is due /	
consecutive			ri	Rectify unacceptable practice;	c,i	Discuss with IEC, ET and		not due to the works	
samoling days		identification of the	က်	Check all plant and		Contractor on the proposed	က်	Discuss with ER, ET and	
		exceedance		equipment;		mitigation measures;		Contractor on the	
	4	Check monitoring data, all	4	Consider changes of working	ń	Request Contractor to critically		mitigation measures.	
		plant, equipment and		methods;		review the working methods;	4	Review proposals on	
	_	Contractor's working methods:	ω.	Submit the results of the	ശ്	Ensure remedial measures		mitigation measures	
	ي م	-		investigation to IEC and ER		are properly implemented		submitted by Contractor	
	ģ			within 3 working days of the	4	Assess the effectiveness of		and advise the ER	
	;			identification of an		the implemented mitigation		accordingly.	
		within 3 working days of		exceedance		measures;	ശ്	Assess the effectiveness	
		Identification of exceedance	പ	Discuss with ET, IEC and ER	ഗ	Consider and instruct, if		of the implemented	
		and advise contractor if	-	and propose mitigation		necessary, the Contractor to		mitigation measures.	
		exceedance is due to		measures to IEC and ER		slow down or to stop all or part			• •
		contractor's construction		within 4 working days;		of the marine work until no			
		works	ú	Implement the agreed		exceedance of Limit Level.			
	~	Discuss mitigation measures		mitigation measures within					
		-		reasonable time scale					
-	α		~	As directed by the Engineer,					
		are implemented;		to slow down or to stop all or					
	တ်	Increase the monitoring		part of the marine work or					
		frequency to daily until no		construction actives.					
		exceedance of Limit Level for							
		two consecutive days.			_				Ĩ



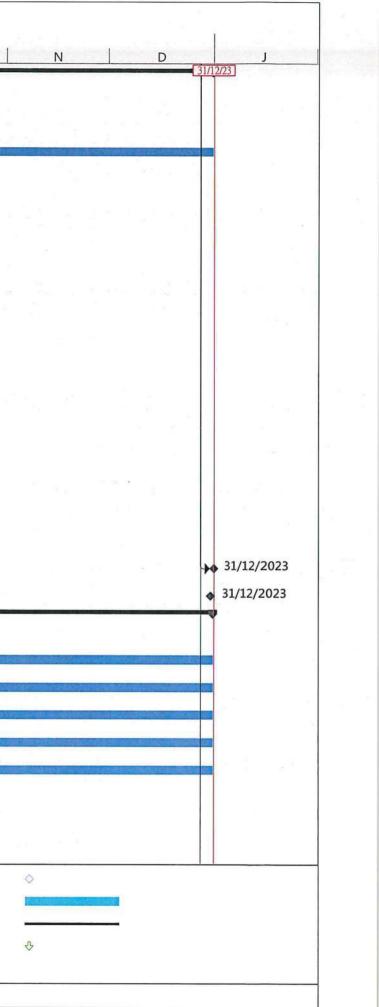
Appendix G

Construction Programme

4 \mathbf{m} 5 \mathbf{m} 5 \mathbf{m} 6 \mathbf{m} 9 \mathbf{m} 1 \mathbf{m} 2 \mathbf{m} 3 \mathbf{m} 4 \mathbf{m} 5 \mathbf{m} 6 \checkmark 7 \checkmark 8 \checkmark 9 \checkmark		Contract duration of Contract CV/2021/9			and the balance			allowa							Half 2, 20		
$\begin{array}{c}$			e.		and the second second second			-	1.18	-		Α		S		0	-
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$. 10		50	at 1/1/22	Sun 31/12/23	730 days			NA	NA	0%	al Conclusion	1/9/23	a second to a second		and the second second	
4 \mathbf{m} 5 \mathbf{m} 5 \mathbf{m} 6 \mathbf{m} 9 \mathbf{m} 1 \mathbf{m} 2 \mathbf{m} 3 \mathbf{m} 4 \mathbf{m} 5 \mathbf{m} 6 \checkmark 7 \checkmark 8 \checkmark 9 \checkmark 9 \checkmark	11.11	Contract date, Date of the Letter of Acceptance (assumed)	e M	on 20/12/21	Mon 20/12/21	0 days			NA	NA	0%						
5 7 7 7 7 7 7 7 7 7 7		Starting Date of the Works	Sa	at 1/1/22	Sat 1/1/22	0 days			NA	NA	0%						
5 7 1 7 1 1 1 1 1 1 1 1 1 1		Starting Date of Section 1 of the Works	Sa	at 1/1/22	Sat 1/1/22	0 days			NA	NA	0%						
7 1 3 1 9 1 1 1 2 1 3 1 4 1 5 1 6 7 8 9		Starting Date of Section 2 of the Works	Sa	at 1/1/22	Sat 1/1/22	0 days			NA	NA	0%						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		Starting Date of Section 3 of the Works	Sa	at 1/1/22	Sat 1/1/22	0 days			NA	NA	0%						
$\begin{array}{c c} \hline 0 \\ \hline 0 \\ \hline 1 \\ \hline 2 \\ \hline 3 \\ \hline 4 \\ \hline 5 \\ \hline 6 \\ \hline 7 \\ \hline 8 \\ \hline 9 \\ \hline 0 \\ \hline 1 \\ 1 \\ \hline 1 \\ \hline 1 \\ \hline 1 \\ 1 \\ 1 \\ \hline 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\$	2	Date for Completion of the Works	Si	un 31/12/23	Sun 31/12/23	0 days			NA	NA	0%						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Completion Date of Section 1 of the Works	Su	un 31/12/23	Sun 31/12/23	0 days	-		NA	NA	0%						
1 1 2 1 3 1 4 1 5 1 6 1 7 1 8 1 9 1 90 1		Completion Date of Section 2 of the Works	Si	un 31/12/23	Sun 31/12/23	0 days			NA	NA	0%						
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		Completion Date of Section 3 of the Works	Su	un 31/12/23	Sun 31/12/23	0 days	-		NA	NA	0%						
3 Ⅲ 4 Ⅲ 5 Ⅲ 6 ✓ 7 ✓ 8 ✓ 9 ✓ 9 ✓		Planned completion dates	SI	un 31/12/23	Sun 31/12/23	0 days			NA	NA	0%						
3 Ⅲ 4 Ⅲ 5 Ⅲ 6 ✓ 7 ✓ 8 ✓ 9 ✓ 9 ✓		Planned competion date of Section 1	Su	un 31/12/23	Sun 31/12/23	0 days		-	NA	NA	0%						
4 III 5 III 6 ✓0 7 ✓0 8 ✓0 9 ✓ 00 III		Planned competion date of Section 2	S	un 31/12/23	Sun 31/12/23	0 days		-	NA	NA	0%						
5 III 6 /1 7 /1 8 /1 9 / 9 /		Planned competion date of Section 3	S	un 31/12/23	Sun 31/12/23	0 days		-	NA	NA	0%						
.6 √[.7 √[.8 √[.9 √ .0 Ⅲ		Access Date of the Site	Sa	at 1/1/22	Sat 1/1/22	0 days			NA	NA	0%						
.8 🗸 9 🗸		Portion A2, A3a, A3b, A3c, A4, A5a, A5b, A7c2, A1 (within 60 days after starting date)			Sat 1/1/22	0 days			Sat 1/1/22	Sat 1/1/22	100%						
9 🗸	- (Portion B1, B3, B6a, B6b and B7 (within 60 days af date)		at 1/1/22	Sat 1/1/22	0 days			Sat 1/1/22	Sat 1/1/22	100%						
0	P.	Portion A1. A7a, A7b, A7c1, A9, A9a and B6c (7 da advance notice after starting date)	ay's Sa	at 1/1/22	Sat 1/1/22	0 days			Sat 1/1/22	Sat 1/1/22	100%						
	1	Portion B6c (7 day's advance notice after starting d	date) Sa	at 1/1/22	Sat 1/1/22	0 days			Sat 1/1/22	Sat 1/1/22	100%						
1		Hand back of the Site	S	un 31/12/23	Sun 31/12/23	0 days			NA	NA	0%						
		Portion A2, A3a, A3b, A3c, A4, A5a, A7c2, A10 and at an earlier date notified by the Project Manager w days' advance notice)		un 31/12/23	Sun 31/12/23	0 days			NA	NA	0%						
2	12,1	Portion A1, A7b, A7c1, A9 and A9a (or at an earlier notified by the Project Manager with 30 days' advar	r date as Sunce notice)	un 31/12/23	Sun 31/12/23	0 days			NA	NA	0%						
3		Portion B1, B3, B6a, B6b and B7 (or at an earlier d notified by the Project Manager with 30 days' advar	nce notice)		Sun 31/12/23				NA	NA	0%		1				
		Portion B6c (or at an earlier date as notified by the Manager with 30 days' advance notice)			Sun 31/12/23				NA	NA	0%						
:5		Section 1 of the Works - Tseung Kwan O Area 1 Bank			Sun 31/12/23	-			Sat 1/1/22	NA	80%						
6		Taking over the existing facilities at the Tseung Area 137 Fill Bank within Portion A of the Site			Sat 1/1/22		4SS	0	Sat 1/1/22	Sat 1/1/22	100%						
7		Operation of the the Tseung Kwan O Area 137 F within Portion A of the Site Operation and maintenance of the surveillance s			Sun 31/12/23 Sun 31/12/23			0	Sat 1/1/22 Sat 1/1/22	NA	86%						
		within Portion A of the Site Operation and maintenance of the existing tippin			Sun 31/12/23			0	Sat 1/1/22	NA	86%						
9 🛒	P-	the Tseung Kwan O Area 137 Fill Bank within Po the Site			001101112120	100 0035	2000	U	out mille		0070						
0		Provision, operation and maintenance of the Cru Plant at the Tseung Kwan O Area 137 Fill Bank Portion A of the Site		at 1/1/22	Sun 31/12/23	730 days	26SS	0	Sat 1/1/22	NA	86%						200
1	2	Operation and maintenance of the dewatering p Tseung Kwan O Area 137 Fill Bank within portio	plant at the Saon A of the	at 1/1/22	Sun 31/12/23	730 days	26SS	0	Sat 1/1/22	NA	86%						
2 -	R.	Site. Collection and delivery of Public Fill by barges fi Chai Wan and Mui Wo Barging Points to the TK 137 Fill Bank within Portion A of the Site		at 1/1/22	Sun 31/12/23	730 days	26SS	0	Sat 1/1/22	NA	86%						
		Task				Externa	l Tasks				Duration-on	ly			Exterr	nal Tasks	5
		Split				Externa	l Milest	tone	\diamond		Manual Sum	mary Rollup	•		Exterr	nal Miles	ton
ject: 3 m te: [22/09		rolling Programme Oct 23 to Dec23		٠		Inactive					Manual Sum		•		Progr		
			ne														
						Inactive	Summ	narv	11111111		Start-only		TRANSPORT NO.	and the second	Dead	line	



ID		Task Name		Baseline Start	Baseline Finish	Duration	Predeo	risk allowa	Actual Start	Actual Finish	% Complet [,]			н	alf 2, 202	3
	0		Sector Sector				Post in			1		А		S		0
33	,	Construction of Gabion wall	and statement for	NA Oct 40/2/22	NA	681 days			Sat 19/2/22		27%		1/9/23			
34	~	Preparing and submitting a meth approval	hod statement for	Sat 19/2/22	Fri 4/3/22	12 days		2	Sat 19/2/22	Wed 2/3/22	100%					
35	~	Preparing and submitting the ma	aterial submission	Sat 5/3/22	Fri 18/3/22	12 days		2	Sat 19/2/22	Wed 2/3/22	100%					
36	~	Obtaining approval from the Pro	ject Manager	Sat 19/3/22	Fri 1/4/22	1 day	35,34	2	Tue 26/4/22	Tue 26/4/22	100%					
37	-	Construction of Gabion wall		Sat 2/4/22	Sun 31/12/23	546 days		7	Mon 4/7/22	NA	24%			WARD OF	Contractor	and the second second
38	~	Re-surfacing of the access road	at A11 TKOFB	Mon 21/3/22	Fri 22/4/22	33 days			Mon 21/3/22	Fri 22/4/22	100%		1 a 1			
39	~	Submission of method statemer access road	t of re-surfacing the	Mon 21/3/22	Fri 25/3/22	5 days		0	Mon 21/3/22	Fri 25/3/22	100%					
40	~	Obtaining approval from the Pro	ject Manager	Thu 7/4/22	Thu 7/4/22	1 day	39	2	Thu 7/4/22	Thu 7/4/22	100%		1. I .			
41	~	Milling off the existing pavement pavement on the access road	, overlaying new	Fri 15/4/22	Fri 22/4/22	8 days	40	1	Fri 15/4/22	Fri 22/4/22	100%					
42	~	PMI no.3 Trial Production of blan recycled from public fill	ket layer material	Tue 28/6/22	Wed 24/8/22	156 days			Tue 28/6/22	Wed 30/11/2	2 100%					
43	~	Submission of method statemer	it	Tue 28/6/22	Fri 29/7/22	32 days		1	Tue 28/6/22	Fri 29/7/22	100%					
44	~	Obtaining approval from the Pro	ject Manager	Sat 30/7/22	Sat 20/8/22	1 day		2	Wed 17/8/22	Wed 17/8/22	100%					
45	~	Manufacturing and delivery of so	creening machine	Fri 22/7/22	Thu 11/8/22	21 days		2	Fri 22/7/22	Thu 11/8/22	100%					
46	~	Trial Production of blanket layer	material	Mon 22/8/22	Wed 24/8/22	45 days		1	Mon 17/10/22	Wed 30/11/2	2 100%					
47		PMI no.24 Implementation of C ea	asy system at TKOFB	Mon 22/8/22	Tue 27/12/22	94 days			Tue 30/8/22	NA	99%					
48	1	Submission of method statemen	t for approval	Mon 22/8/22	Sun 28/8/22	1 day			Tue 30/8/22	Tue 30/8/22	100%					
49	V	Obtaining approval from the Pro	ject Manager	Mon 29/8/22	Sun 18/9/22	1 day	48	2	Wed 31/8/22	Wed 31/8/22	100%					
50	~	Ordering and delivery of C easy site	system hardware to	Mon 19/9/22	Wed 2/11/22	8 days	49	3	Thu 1/9/22	Thu 8/9/22	100%					
51	1	Installation of the C Easy system	n	Thu 3/11/22	Wed 16/11/22	19 days	50	2	Fri 9/9/22	Tue 27/9/22	100%					
52	1	Trail run of the system		Thu 17/11/22	Wed 30/11/22	9 days	51	2	Tue 22/11/22	Wed 30/11/2	2 100%					
53		Parallel run with the old system		Thu 1/12/22	Mon 26/12/22	0 days	52	2	Tue 22/11/22	NA	95%					
54		Operation with C easy system in	dividually	Tue 27/12/22	Sat 30/9/23	1 day	53	0	Thu 1/12/22	NA	95%					
55		Handing over the facilities at the Ts Fill Bank within Portion A of the Site	eung Kwan O Area 137 to the Employer	Sun 31/12/23	Sun 31/12/23	0 days	8SS	0	NA	NA	0%					
56	-	Planned Completion Date (Section 1)		Sun 31/12/23	Sun 31/12/23	0 days			NA	NA	0%					
57	H	Section 2 of the Works - Tuen Mun A	Area 38 Fill Bank	Sat 1/1/22	Sun 31/12/23	730 days			Sat 1/1/22	NA	86%					
58	~	Taking over the existing facilities at Fill Bank within Portion B of the Site	2		Sat 1/1/22	1 day	5SS	0	Sat 1/1/22	Sat 1/1/22	100%					
59		Operation of the Tuen Mun Area 38 B of the Site	Fill Bank within Portion	Sat 1/1/22	Sun 31/12/23	730 days	5SS	0	Sat 1/1/22	NA	86%				And States	
60		Operation and maintenance of the s within Portion B of the Site	surveillance system	Sat 1/1/22	Sun 31/12/23	730 days	5SS	0	Sat 1/1/22	NA	86%					
61		Operation and maintenance of the e the Tuen Mun Area 38 Fill Bank with	hin Portion B of the Site	Sat 1/1/22	Sun 31/12/23	730 days	5SS	0	Sat 1/1/22	NA	86%			No. of Concession, Name		
62	P.	Operation and Maintenance of the C Tuen Mun Area 38 Fill Bank within I	Crushing Plant at the	Sat 1/1/22	Sun 31/12/23	730 days	5SS	0	Sat 1/1/22	NA	86%					
63	H	Operation and maintemnance of gla compartment at the Tuen Mun Area	ass cullet storage	Sat 1/1/22	Sun 31/12/23	730 days	5SS	0	Sat 1/1/22	NA	86%					
64	~	Portion B of the Site PMI no.05 Construction of vehicle facilities	e washing house	Wed 6/4/22	Fri 2/9/22	180 days			Wed 6/4/22	Sun 2/10/22	100%					
65	~	Submission of method statemen house facilities	t of vehicle washing	Wed 6/4/22	Wed 6/4/22	1 day		1	Wed 6/4/22	Wed 6/4/22	100%					
			Task			Externa	l Tasks		T. C.		Duration-only	v			External	Tasks
			Split			Externa		one	\$							
oject:	3 mont	h rolling Programme Oct 23 to Dec23		11111					\checkmark		Manual Sumr		•			Milestone
	2/09/20		Milestone	•		Inactive	Mileste	one]	Manual Sumr	nary	•		Progress	S
			Summary		~	Inactive	Summ	ary			Start-only				Deadline	е
			Project Summary		\bigtriangledown	Manual	Task	- 22	0		Finish-only	1		10		
			,		·						intern only		1. C			



ID		Task Name	and have a set	Baseline Start	Baseline Finish	Duration	Predeo	risk allow	Actual Start a	Actual Finish	% Complet	1.		Half 2, 20	23
~~	0	Obtaning approval from the Proj	ant Managar	Man 05/4/00	Man 05/4/00	4 4 4 4 4	05	-	Mar 05/4/00	Mar 05/4/0		A	S		0
66	~	Obtaning approval from the Proj Fabrication and delivery of the v		Mon 25/4/22 Fri 10/6/22	Mon 25/4/22 Mon 8/8/22	1 day 70 days	65	2	Mon 25/4/22			L	1/9/23		
67	×	facilities materials on site							Fri 10/6/22						
68	~	Installation of the vehicle washin		Tue 9/8/22	Thu 1/9/22	17 days		2	Tue 13/9/22	Thu 29/9/22	2 100%				
69	V .	Trial run of vehicle washing hous	se facilities	Fri 2/9/22	Fri 2/9/22	1 day	68	0	Sun 2/10/22	Sun 2/10/22	2 100%				
70		PMI no.20 Implementation of C ea	asy system at TMFB	Mon 22/8/22	Tue 27/12/22	118 days			Wed 31/8/22	NA	97%				
71	~	Submission of method statemen	t for approval	Mon 22/8/22	Sun 28/8/22	1 day		1	Wed 31/8/22	Wed 31/8/2	2 100%				
72	~	Obtaining approval from the Pro	ject Manager	Mon 29/8/22	Sun 18/9/22	1 day	71	2	Thu 1/9/22	Thu 1/9/22	100%				
73	~	Ordering and delivery of C easy site	system hardware to	Mon 19/9/22	Wed 2/11/22	5 days	72	3	Sat 17/9/22	Wed 21/9/2	2 100%		1 × 1		
74	\checkmark	Installation of the C Easy system	ı	Thu 3/11/22	Wed 16/11/22	18 days	73	2	Thu 22/9/22	Sun 9/10/22	2 100%				
75	V	Trail run of the system		Thu 17/11/22	Wed 30/11/22	0 days	74	2	Tue 1/11/22	Thu 1/12/22	2 100%				
76		Parallel run with the old system		Thu 1/12/22	Mon 26/12/22	26 days	75	2	Thu 1/12/22	NA	95%		1. 1. 1. 1.		
77	P.	Operation with C easy system in	dividually	Tue 27/12/22	Sat 30/9/23	1 day	76	0	Thu 1/12/22	NA	95%				
78		Handing over the facilities at the Tu Bank within Portion B of the Site to		Sun 31/12/23	Sun 31/12/23	1 day	9SS	0	NA	NA	0%		1.1		
79	E	Planned Completion Date (Section 2)			Sun 31/12/23				NA	NA	0%		4		
80		Section 3 of the Works - Designated the Mainland	Reclamation Sites in	Mon 20/12/21	Sun 31/12/23	755 days		1.10	Tue 7/12/21	NA	51%				
81	~	Collection and delivery of 2 millio Fill by vessels from Tseung Kwar and the Tuen Mun Area 38 Fill Ba Reclamation Sites in the Mainlan	n O Area 137 Fill Bank nk to the Desiognated		Sun 31/12/23	442 days			Tue 7/12/21	Tue 21/2/23	3 100%				
82	~	1st and 2nd quarter of first yea	ar	Mon 20/12/21	Thu 31/3/22	190 days			Tue 7/12/21	Tue 14/6/22	2 100%		nőn -		
90	~	3rd quarter of first year		Fri 20/5/22	Fri 30/9/22	168 days			Tue 28/12/	Mon 13/6/2	2 100%				
97	~	4th quarter of first year		Sat 20/8/22	Sat 31/12/22	71 days			Fri 22/7/22	Fri 30/9/22	100%		1 2 2 2 1		
104	~	1st quarter of second year		Sun 20/11/22		76 days			Thu 8/12/22	Tue 21/2/23	3 100%		1.8 1 1.3	5-3 - 5-5	
105	~	Submitting application docum application of dumping permi	ts		Sun 18/12/22			0	Thu 8/12/22		2 100%			S	
106	~	Obtaining the dumping permi on 31/12/22)	t from EPD (assumed	Mon 19/12/22	Sat 31/12/22	1 day	105	2	Tue 7/2/23	Tue 7/2/23	100%		1 10 10		
107	~	Submiting Application docum for the application of the dum the sea	ents to the Employer ping permit of waste at	Sun 20/11/22	Sun 20/11/22	1 day		0	Thu 8/12/22	Thu 8/12/22	2 100%				
108	~	Obtaining the dumping perm Ecology and environment of t of China through the Employe	he People's Republic	Mon 21/11/22	Sat 31/12/22	1 day	107	14	Sat 4/2/23	Sat 4/2/23	100%				
109	~	Obtaining all necessary perm and concents		Sun 18/12/22	Sat 31/12/22	1 day		2	Tue 7/2/23	Tue 7/2/23	100%		1.1		
110	~	Collection and delivery of 250	0000 tonnes of Public F	Sun 1/1/23	Fri 31/3/23	14 days	103,109	9, 14	Wed 8/2/23	Tue 21/2/23	3 100%				
111		PMI no.60 for delivering the cumu exceeding 2 million tonnes under works		Sat 18/2/23	Sun 31/12/23	306 days		-	Sat 18/2/23	NA	83%	· · ·			
112	1	2nd quarter of second year		Sat 18/2/23	Fri 30/6/23	133 days			Sat 18/2/23	Fri 30/6/23	100%				
113	~	Submitting application docum application of dumping permit		Sat 18/3/23	Sat 18/3/23	1 day		0	Sat 18/3/23				she wi		
114	~	Obtaining the dumping permi on 31/3/23)		Sun 19/3/23	Fri 31/3/23	13 days	113	2	Sun 19/3/23	Fri 31/3/23	100%				
115	~	Submiting Application docum for the application of the dum the sea		Sat 18/2/23	Sat 18/2/23	1 day		0	Sat 18/2/23	Sat 18/2/23	100%				
			Task			Externa	al Tasks			AND 2501.0	Duration-onl	v		Externa	al Tasks
			Split			Externa	Milect	one	0			nary Rollup 🔷			al Milestone
		th rolling Programme Oct 23 to Dec23	Milestone	▲		Inactive					Manual Sumi				
Date: [2	2109/20	20]		×								nary 🗸		Progre	
			Summary Project Summary		~	Inactive Manua		ary	¢		Start-only			Deadlin	ne
			rioject summary	V	~	wanua	I I dSK		Ŷ	2000	Finish-only				
	_									Page 3					

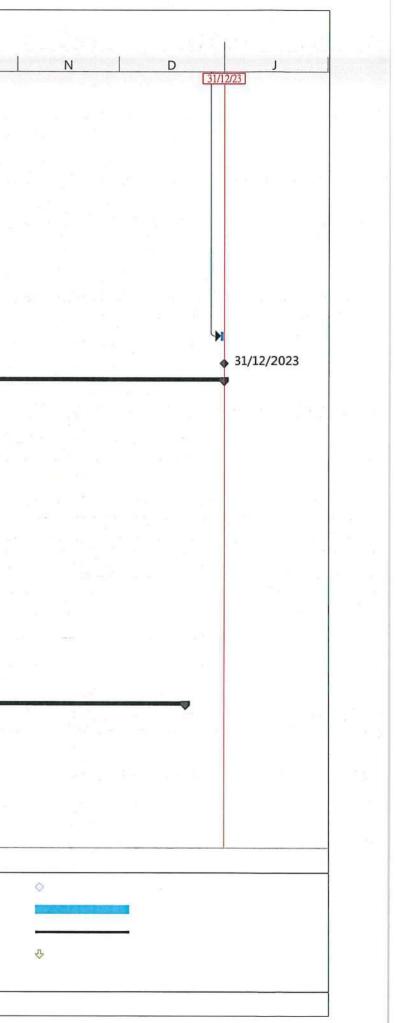
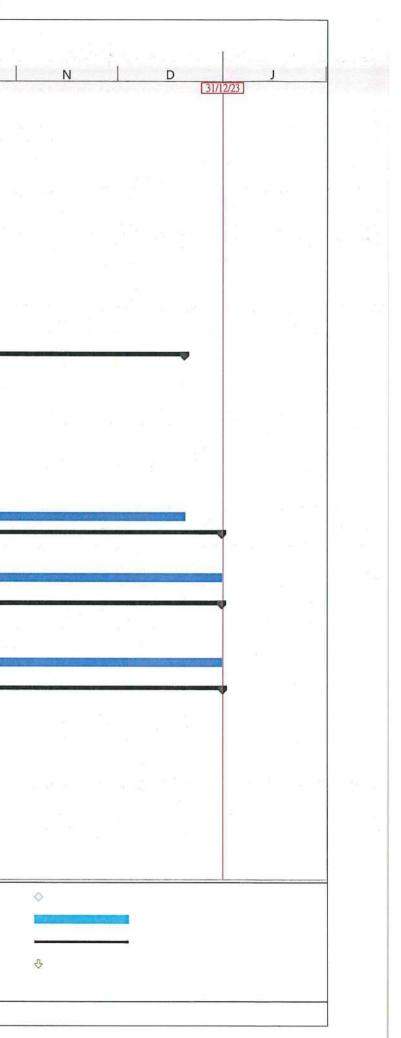
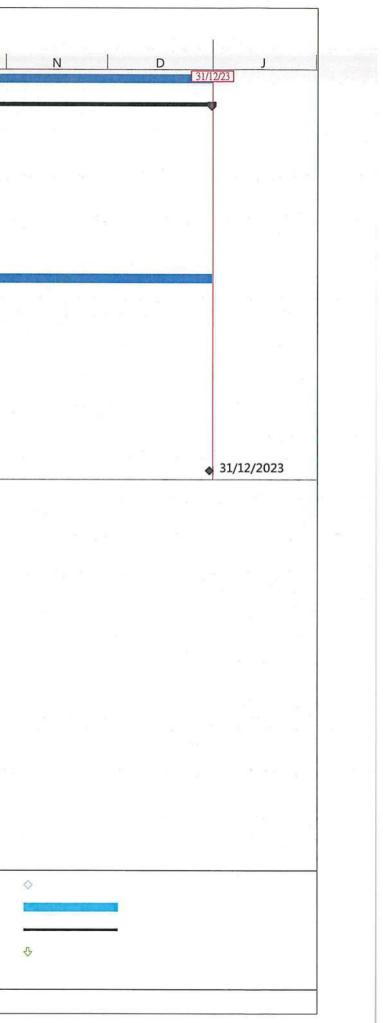


Image: Constraint of example in general is non Meany constraint of the constrai	ID		Task Name		Baseline Start	Baseline Finish	Duratior	Predec	etime risk allowa	Actual Start	Actual Finish	% Complet				160.00	22
1316 Claiming the daming particle for Michaely of Sur 1922 4: 4 3ps 113 14 90.1 1922 1139 14 90.1 1922 1139 14 90.1 1922 1139 14 90.1 1922 1139 14 90.1 1922 1139 14 90.1 1922 1139 14 90.1 1922 1139 14 90.1 1922 1139 14 90.1 1922 1139 14 90.1 1922 1139 14 130 14 130 14 130 14 130 14 130 14 130 14 </th <th></th> <th>0</th> <th>and the second states and</th> <th></th> <th></th> <th>and the second second</th> <th>and the local diversion of</th> <th>and the</th> <th>anowa</th> <th>a</th> <th>the second</th> <th>in the second second</th> <th>٨</th> <th>1</th> <th>c Ha</th> <th>alt 2, 20</th> <th></th>		0	and the second states and			and the second second	and the local diversion of	and the	anowa	a	the second	in the second second	٨	1	c Ha	alt 2, 20	
111 V Obtaining and encodenty permits. Increase services is the DAD. Fi 10022 Fi 10022 Fi 10022 1005 113 V Section and encodency fields Fill Set 10023 Set 20023 1005 113 V Section and encodency fields Fill Set 10023 1004 1005 113 V Section and encodency fields Fill Set 10023 1004 1005 113 V Section and encodency field F	116	1	Ecology and environment of	he People's Republic	Sun 19/2/23	Fri 31/3/23	41 days	115	14	Sun 19/2/23	Fri 31/3/23	100%		1/9/23	3		
100 20 3d quarter of second year Set 209/23 64 409/23 103 dyap 5 at 200/23 V 6400/21 Non-200/21 Non-200/22	117	~	Obtaining all necessary perm		Sat 18/3/23	Fri 31/3/23	14 days		2	Sat 18/3/23	Fri 31/3/23	100%					
120 ✓ Submitting application occuments to be PD for submitting application occuments to be PD for Sub PD for Submitting application occuments to be PD for Submitting application occuments to	118	~		olic Fill	Sat 1/4/23	Fri 30/6/23	91 days	110,114	, 14	Sat 1/4/23	Fri 30/6/23	100%					
Image: Control of during germine Image: Control of during germine Control during germine <thcontrol during="" germine<="" th=""> Control during germine<td>119</td><td>1</td><td>3rd quarter of second year</td><td></td><td>Sat 20/5/23</td><td>Sat 30/9/23</td><td>103 days</td><td></td><td></td><td>Sat 20/5/23</td><td>Wed 30/8/23</td><td>100%</td><td></td><td></td><td></td><td></td><td></td></thcontrol>	119	1	3rd quarter of second year		Sat 20/5/23	Sat 30/9/23	103 days			Sat 20/5/23	Wed 30/8/23	100%					
121 V Oblamming the sample input for the CP (secamed 8 unit 189/22 14 solution 100% 100% 100% 100% 100% 100% 100% 100	120	~			Sat 17/6/23	Sat 17/6/23	1 day		0	Thu 8/6/23	Thu 8/6/23	100%				- ee	
122 Submitting Application documents is the Employme Submitting Application documents is the Employme Submitting Application documents is the Employme Submitting Application documents Submitting Application docum	121	~	Obtaining the dumping permi		Sun 18/6/23	Fri 30/6/23	13 days	120	14	Fri 9/6/23	Wed 21/6/23	100%					
123 Celeting the during permits Sin 21/5/23 Fi 30/6/23 Fi	122	~	Submiting Application docum for the application of the dum		Sat 20/5/23	Sat 20/5/23	1 day		0	Sat 20/5/23	Sat 20/5/23	100%					
124 Obtaining all noises y Emrits, license approvals Sat 17/223 If a days 2 Sat 17/223 Fil 300/23 100% 125 Coluction and divery of Public Fill Sat 17/23 Sat 300/23 10 days 14 days 2 Sat 17/23 Wed 300/23 100% 126 Utility application documents for Ministry of Public Fill Sat 17/23 Sat 17/23 Wed 300/23 100% 127 Submitting application documents for Ministry of Public Fill San 17/242 Sat 17/23 Yell Yell </td <td>123</td> <td>~</td> <td>Obtaining the dumping perm Ecology and environment of the</td> <td>he People's Republic</td> <td>Sun 21/5/23</td> <td>Fri 30/6/23</td> <td>41 days</td> <td>122</td> <td>14</td> <td>Sun 21/5/23</td> <td>Fri 30/6/23</td> <td>100%</td> <td></td> <td></td> <td></td> <td></td> <td></td>	123	~	Obtaining the dumping perm Ecology and environment of the	he People's Republic	Sun 21/5/23	Fri 30/6/23	41 days	122	14	Sun 21/5/23	Fri 30/6/23	100%					
125 ✓ Collection and delayer of Public Fill Stat 1/7.23 Stat 3/7.23 Ed days 113,724, 14 Stat 1/7.73 Wed 300/23 Using 1 126 411 gruater of second yeer Stat Mirzles Stat Mirzles Stat Mirzles 153 days 127 ✓ Stat Mirzles Stat Mirzles 153 days 164 yr Pi 12/17/23 Wed 300/23 100% 128 ✓ Oblaining the durping permits from Fib Mon 188/23 Stat 300/23 1 day	124	~	Obtaining all necessary perm		Sat 17/6/23	Fri 30/6/23	14 days		2	Sat 17/6/23	Fri 30/6/23	100%		1. 1. 1.			
126 44h quater of second year Sun 20022 Sun 31/12/22 1 day P 12 177/23 NA 21% 127 Submitting application documents to the Employer for the application of the during parmits Mon 189022 1 day 0 Total 31/16/23 Total 31/16/23 <td>125</td> <td>1</td> <td></td> <td>olic Fill</td> <td>Sat 1/7/23</td> <td>Sat 30/9/23</td> <td>61 days</td> <td>118,124</td> <td>, 14</td> <td>Sat 1/7/23</td> <td>Wed 30/8/23</td> <td>100%</td> <td></td> <td></td> <td>- Carlor</td> <td></td> <td></td>	125	1		olic Fill	Sat 1/7/23	Sat 30/9/23	61 days	118,124	, 14	Sat 1/7/23	Wed 30/8/23	100%			- Carlor		
127 Submitting application documents to EPD for splication of during permits from EPD Mon 19923 Sun 17923 1 day 0 Tue 1923 100% 128 Chaining the during permits from EPD Mon 19923 Sun 17923 1 day 0 Fig 217023 100% 130 Chaining the during permits from EPD Ecology and environment of the People's Republic Colline in requirement, Lenses approvals Mon 216923 Gu days 129 14 Wed 30823 100% 131 Collection and delvery of Public Fill Fill 17723 O days 129 14 Wed 30823 100% 132 Collection and delvery of Public Fill Fill 17723 O days 129 14 Wed 30823 100% 30/8/2023 133 Collection and delvery of Public Fill Fill 17723 Sun 311223 50 days 125 14 Nu 129 14 Wed 30823 100% 134 Temmonal cocyclustical and delvery of Public Fill with the besplated Reclamation Stee in the Mainland Sat 17122 Sun 311223 730 days 14 Sat 17122 NA 85% 135 Temmonal cocyclustical and maintranse of the oxisting avaigation the colleging on and maintranse of the besplated Reclamation Stee in the Mainla	126	1	4th quarter of second year		Sun 20/8/23								TAL OUT OWNER THE TAL				
application of durping permits Mon 169/23 Sat 30/3/22 1 day 1/27 2 Thu 31/3/22 Thu 31/3/22 <t< td=""><td>127</td><td>~</td><td>Submitting application docum</td><td></td><td></td><td></td><td></td><td></td><td>0</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	127	~	Submitting application docum						0								
129 ✓ Submitting Application documents to the Employer for the application of the dumping permits from Ministry of Ecology and environment of the dumping permits from Ministry of Ecology and environment of the dumping permits from Ministry of Ecology and environment of the movies approvals and concernis Mon 21/8/23 1 day 0 Fi 21/7/23 100% 131 ✓ Obtaining the dumping permits from Ministry of Ecology and environment of the function and concernis Mon 21/8/23 1 hu 31/8/23 0 days 129 14 Wed 30/8/2 100% 132 ✓ Obtaining the dumping permits from Ministry of Ecology and environment of the dumping permits from Ministry of Ecology and environment of the dumping permits from Ministry of Ecology and environment of the dumping permits from Ministry of Ecology and environment of the ecologitate and/or deposited public fill Mon 21/8/23 Nu 21/8/		. 1			Mon 18/9/23	Sat 30/9/23	1 day	127	2	Thu 31/8/23	Thu 31/8/23	100%		Ţ			
Interpretation Interpretation <thinterpretation< th=""> Interpretation Interp</thinterpretation<>		×,			COMPLET CLERCHEROPELA			121	1								
Ecclopy and environment of the People's Republic Image: Control of the Engine Separation of Stockpilde Mon 21/8/23 Tru 10/8/23 Tru 10/8/23 Yeed 30/8/23 Yeed 30/8		×	for the application of the dum the sea	ping permit of waste at	1												
and concerts and concerts Fit 1/9/2 Sun 31/12/2 50 days 125,131,14 Mon 2/10/23 NA 15% 133 11 Removal, excavation and deposition of stockpiled and/or deposited public Fill within the Designated Reclamation Sites in the Mainland Ski 11/122 Sun 31/12/23 730 days 65S Ski 11/122 NA 86% 134 11 Removal, excavation and deposition of stockpiled and/or deposited public fill within the Designated Reclamation Sites in the Mainland Ski 11/122 Sun 31/12/23 730 days 65S Ski 11/122 NA 86% 135 11 Operation and maintenance of the existing navigation channel and turning basins in association with the existing berthing the dumping permits Ski 11/122 Sun 31/12/23 730 days 65S Ski 11/122 NA 86% 136 12 Operation and maintenance of the existing navigation channel and turning basins in association with the new berthing leftlift at 200 B Ski 12/12/09 Ski 12/12/19 Ski 12/12/19 Ski 13/12/21 MA	130	~	Ecology and environment of t	he People's Republic	Mon 21/8/23	Thu 31/8/23	0 days	129	14	Wed 30/8/23	Wed 30/8/23	100%		3 0,	/8/2023		
133 13 13 13 13 Removal, excavation and deposition of stockpiled Reclamation Sites in the Mainland Sat 1/1/22 Sun 31/12/23 730 days Sst Sst 1/1/22 NA 86% 134 134 Removal, excavation and deposition of stockpiled Reclamation Sites in the Mainland Sat 1/1/22 Sun 31/12/23 730 days 14 Sat 1/1/22 NA 86% 135 13 Operation and maintenance of the existing navigation channel and turning basins in sociation with the Designanded Reclamation Sites in the Mainland Sat 1/1/22 Sun 31/12/23 730 days 14 Sat 1/1/22 NA 86% 136 136 Operation and maintenance of the existing navigation channel and turning basins in sociation with the new parking the initiag basins in sociation with the new parking the initiag basins in sociation with the new parking the initiag basins in sociation with the new parking the initiag basins in the Mainland Sat 1/1/22 Sat 1/1/22 NA	131	~		its, licenses,approvals	Mon 21/8/23	Thu 31/8/23	0 days		0	Thu 10/8/23	Wed 30/8/23	100%		♦ 30	/8/2023		
and/or deposited Public Fill within the Designated Reclamation Sites in the Mainland Sat 1/1/22 Value of the Sat Virize Value of Va	132	-	Collection and delivery of Put	olic Fill	Fri 1/9/23	Sun 31/12/23	80 days	125,131	, 14	Mon 2/10/23	NA	18%				-	-
and/or deposited public fill and/or deposited public fill sat 1/1/22 Ya days SS Sat 1/1/22 NA 86% 135 136 Operation and maintenance of the existing navigation channel and turning basins in association with the existing perturbing facility at 20ne E of the Designated Reclamation Sites in the Mainland Sat 1/1/22 Van 31/12/23 730 days SS Sat 1/1/22 NA 86% 136 137 Design, construction, operation and maintenance of the existing navigation fass in association with the new hardigation channel and turning basins in association with the new barding facility at 20ne B of the Designated Reclamation Sites in the Mainland (subject to Project's Manager's instruction) Sat 1/1/22 Sat 1/1/22 Sat 1/1/22 NA NA NA 0% 138 139 139 139 139 Project's Manager's instruction) Sat 1/1/22 Sat 1/1/22 1 day 0 NA NA 0% 141 138 139 139 139 Task Sat 1/1/22 Sat 1/1/22 30 days 138 7 NA NA 0% 141 139 13 Obtaining the dumping perusition Sat 1/1/22 Sun 31/1/22 30 days 139 7 NA	133		and/or deposited Public Fill withi	n the Designated	Sat 1/1/22	Sun 31/12/23	730 days	6SS		Sat 1/1/22	NA	86%					
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137 Design, construction, operation and maintenance of the new navigation channel and turning basins in association with the new borthing facility at Zone B of the Designated Reclamation Sites in the Mainland (subject to Project S Manager's instruction) Sat 12/12/09 Sat 12/12/09 S64 days NA NA NA Off 138 Image: Construction of the new navigation channel and turning basins Fri 31/12/21 Mon 31/1/22 I day O NA NA Off 139 Image: Construction of design submission Sat 11/1/22 Su days 138 7 NA NA Off 141 Image: Construction of design submission Sat 11/1/22 Su days 138 7 NA NA Off 142 Obtaining all necessary design approvals and concents Mon 31/1/22 Tu 1/3/22 30 days 140 14 NA NA Off 142 Image: Construction of the new navigation channel and turning Wed 2/3/22 Fri 29/7/22 10 days 141 T NA NA Off 141 Image: Construction completion certificate Sat 30/7/22 Su days 141 T NA NA Off External Tasks External Tasks	136	-	Operation and maintenance of th channel and turning basins	e existing navigation	Sat 1/1/22	Sun 31/12/23	730 days		14	Sat 1/1/22	NA	86%	and proto and a second		and the second		
Ecology and environment of the People's Republic of China through the Employer for Zone A & B (assumed on 31/12/21) Sat 1/1/22 Sun 30/1/22 30 days 138 7 NA NA 0% 139 139 Preparation of design submission Sat 1/1/22 Sun 30/1/22 30 days 138 7 NA NA 0% 140 139 Obtaining all necessary design approvals and concents Mon 31/1/22 Tue 1/3/22 30 days 139 7 NA NA 0% 141 139 Construction of the new navigation channel and turning basins Wed 2/3/22 Fri 29/7/22 150 days 140 14 NA NA 0% 142 139 Obtaining the construction completion certificate Sat 30/7/22 Sun 28/8/22 30 days 141 7 NA NA 0% 142 139 Obtaining the construction completion certificate Sat 30/7/22 Sun 28/8/22 30 days 141 7 NA NA 0% 142 139 Obtaining the construction completion certificate Sat 30/7/22 Sun 28/8/22 30 days 141 7 NA NA 0% </td <td>137</td> <td></td> <td>Design, construction, operation a the new navigation channel and t association with the new berthing the Designated Reclamation Sites</td> <td>urning basins in g facility at Zone B of s in the Mainland</td> <td>Sat 12/12/09</td> <td>Sat 12/12/09</td> <td>564 days</td> <td></td> <td></td> <td>NA</td> <td>NA</td> <td>0%</td> <td></td> <td></td> <td></td> <td></td> <td></td>	137		Design, construction, operation a the new navigation channel and t association with the new berthing the Designated Reclamation Sites	urning basins in g facility at Zone B of s in the Mainland	Sat 12/12/09	Sat 12/12/09	564 days			NA	NA	0%					
139 Image: Preparation of design submission Sat 1/1/22 Sun 30/1/22 30 days 138 7 NA NA 0% 140 Image: Obtaining all necessary design approvals and concents Mon 31/1/22 Tue 1/3/22 30 days 138 7 NA NA 0% 141 Image: Construction of the new navigation channel and turning basins Wed 2/3/22 Fri 29/7/22 150 days 140 14 NA NA 0% 142 Image: Obtaining the construction completion certificate Sat 30/7/22 Sun 28/8/22 30 days 141 7 NA NA 0% 142 Image: Obtaining the construction completion certificate Sat 30/7/22 Sun 28/8/22 30 days 141 7 NA NA 0% Project: 3 month rolling Programme Oct 23 to Dec23 Direct Summary External Tasks Split Image: Colspan="4">Manual Task Start-only External Milestone Summary Inactive Summary Manual Task Start-only Deadline Project Summary Inactive Summary Inactive Summary Finish-only Deadline	138		Ecology and environment of the China through the Employer for 2	People's Republic of	Fri 31/12/21	Mon 31/1/22	1 day		0	NA	NA	0%					
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142 basins Obtaining the construction completion certificate Sat 30/7/22 Sun 28/8/22 30 days 141 7 NA NA 0% Task External Tasks Duration-only External Tasks Split Split External Milestone Manual Summary Rollup ◆ External Milestone Milestone Inactive Milestone Manual Summary Progress Summary Inactive Summary Start-only Deadline Project Summary Manual Task Finish-only External View	140	-	Obtaining all necessary design a	pprovals and concents	Mon 31/1/22	Tue 1/3/22	30 days	139	7	NA	NA	0%					
Project: 3 month rolling Programme Oct 23 to Dec23 Date: [22/09/2023] Task Task Task Split Task Spl	141			on channel and turning	Wed 2/3/22	Fri 29/7/22	150 days	140	14	NA	NA	0%					
Project: 3 month rolling Programme Oct 23 to Dec23 Split Imactive Milestone Manual Summary Rollup ◆ External Milestone Milestone Imactive Milestone Imactive Milestone Manual Summary o Progress Summary Project Summary Manual Task Manual Task Finish-only Progress	142	11	Obtaining the construction comp	letion certificate	Sat 30/7/22	Sun 28/8/22	30 days	141	7	NA	NA	0%					
Project: 3 month rolling Programme Oct 23 to Dec23 Milestone Inactive Milestone Manual Summary Progress Summary Inactive Summary Inactive Summary Start-only Deadline Project Summary Manual Task Manual Task Finish-only Manual Summary				Task	6 (S. 1		Externa	l Tasks		10, 19,071	and an and a state	Duration-on	ly			Extern	al Tasks
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Summary Inactive Summary Start-only Deadline Project Summary V Manual Task Finish-only V				2.5.5	٠								· · · · · · · · · · · · · · · · · · ·	٠			
Project Summary 🗸 🗸 Manual Task 🔅 Finish-only	- 5.0. [2																
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				, , , , , , , , , , , , , , , , , , , ,							Page 4	sing sing		2			



ID	0	Task Name	Baseline Start	Baseline Finish	Duration	Predec	etime risk allowa	Actual Start	Actual Finish	% Complet ⁱ	-	н	lalf 2, 2	023
	0										A	S		0
143	(HB	Operation and maintenance of navigation channel and turning basins	Mon 29/8/22	Sun 31/12/23	321 days	142	14	NA	NA	0%	1/	9/23		and the second
144		Design, construction, operation and maintenance of new berthing facilities at Zone B of the Designated Reclamation Sites in the Mainland (subject to Project's Manager's instruction)		Sun 31/12/23	564 days			NA	NA	0%				
145		Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer for Zone A & B (assumed on 31/12/21)	Fri 31/12/21	Fri 31/12/21	1 day			NA	NA	0%		2.1		
146	III	Preparation of design submission	Sat 1/1/22	Sun 30/1/22	30 days	145	7	NA	NA	0%				
147	III	Obtaining all necessary design approvals and concents	Mon 31/1/22	Tue 1/3/22	30 days	146	7	NA	NA	0%		· · · ·	-	
148		Construction of the berthing facilities	Wed 2/3/22	Sun 28/8/22	180 days	147	14	NA	NA	0%				
149		Obtaining the construction completion certificate	Mon 29/8/22	Tue 27/9/22	30 days	148	7	NA	NA	0%				
150		Operation and maintenance of new berthing facilities	Wed 28/9/22	Sun 31/12/23	293 days	149	14	NA	NA	0%			Contra Ch	
151		Design and construction of seawalls (approximate 200m) in association with new berthing facility at Zone B of the Designated Reclamation Sites in the Mainland		Sat 4/2/23	181 days			NA	NA	0%		2 at 1		e Sae La chia
152		Obtaining the permits from Ministry of Ecology and environment of the People's Republic of China through the Employer for Zone A & B	Sat 1/1/22	Sat 1/1/22	1 day		0	NA	NA	0%				
153		Preparation of design submission (PMI no18)	Sun 2/1/22	Mon 31/1/22	30 days	152	7	NA	NA	0%				
154		Obtaining all necessary design approvals and concents	Tue 1/2/22	Wed 2/3/22	30 days	153	7	NA	NA	0%		1 . V		
155		Construction of seawalls (subject to Project's Manager's instruction)	Thu 3/3/22	Tue 31/5/22	90 days	154	14	NA	NA ·	0%				
156		Obtaining the construction completion certificate (subject to Project's Manager's instruction)	Wed 1/6/22	Thu 30/6/22	30 days	155	7	NA	NA	0%				
157	H	Planned Completion Date (Section 3)	Sun 31/12/23	Sun 31/12/23	0 days			NA	NA	0%				

	Task		External Tasks		Duration-only		External Tasks
	Split		External Milestone	\diamond	Manual Summary Rollup	٠	External Milestone
Project: 3 month rolling Programme Oct 23 to Dec23 Date: [22/09/2023]	Milestone	•	Inactive Milestone		Manual Summary	•	Progress
,	Summary	♥────♥	Inactive Summary		Start-only		Deadline
	Project Summary	\diamond	Manual Task	¢	Finish-only	~	
				Page 5			





Appendix H

Weekly ET's Site Inspection Record

CEDD Contract No.: CV/2021/09

Handling of Surplus Public Fill (2022-2023) - Tuen Mun Area 38 Fill Bank



		>
Inspection Date	•	1-10-23
Time		10:00
		6
Weather	5	Sunny / Fine / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy
Wind		Calm / Light / Breeze / Strong
Temperature		3A'C
Humidity	z.	High Moderate / Low
i runnung -		right (moverate / com

Inspected by	CEDD	Contractor / Sub-Contactor	ET
Signature:	¥		
Name:	Edmond FONG	KWOK WING LAM	chan Aon Can
Title	E/P8	EO	Technican

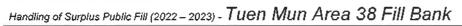


	Environmental Checklist		ement itages		Remark
		Yes	No	N/A	
Fugitive Dust Emission					
	Dust control / mitigation measures shall be provided to prevent dust nuisance.	V			
•	Vater sprays shall be provided and used to dampen materials.	1			
•/	All stockpile of aggregate or spoil should be enclosed or covered and water applied in dry or windy condition.	1			
1	Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and ail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be povered by a clean tarpaulin.	4			
	Inpaved areas should be watered regularly to avoid dust generation.	V	1		
	The designated site main haul road shall be paved or regular watering.	V			
1 6	The haul road inside the site and public road around the site entrance should be kept clean and free from dust.	V			
	Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.	1			
•	Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.	1			
	The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.	1			
	/ehicle and equipment should be switched off while not in use.	1			
• .	All plant and equipment should be well maintained e.g. without black smoke emission.	1			
	Open burning should be prohibited.	V			
	Approval or exemption Non-road Mobile Machinery (NRMM) labels should be painted or securely fixed on regulated machines and non-road rehicles at a conspicuous position according to the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation (APCO Cap.311).	7			
Noise	Impact				
•	The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	7			
•	The constructions works should be scheduled to minimize noise nuisance.	1			
•	Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.	1			
•	Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.	7			
•	Air compressors and hand held breakers should have noise labels.	1			
	Compressors and generators should operate with door closed.	1			
•	Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	V			
	Noisy equipment and mobile plant shall always be site away from NSRs.	1			

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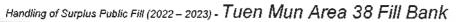


Environmental Checklist	Impleme Stag			Remark
				1
Vater Quality				
 Drainage system and the sand / silt removal facilities should be adequate and well maintained to prevent flooding and overflow, especially after rain storms. 	V			
 The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge. 	V			
 Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding. 	V			
 The material shall be properly covered to prevent washed away especially before rainstorm. 	V			
The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.	1			
 Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD. 	1			
 Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. 	V			
A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains.	1			
 The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains. 	1			
Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided.	V			
 The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities. 	1			
 Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water. 	~			
The barges shall be in right size such that adequate clearance in maintained between the vessels and the seabed at all states of the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller wash.	4			
 All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport. 	1			8
 Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal. 	V			
 Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer. 	1		1	
The work activities shall not cause any visible foam, oil, grease, scum, titter or other objectionable matters to be present on the water in the vicinity of the barging facilities.	4			
 A waste collection vessel shall be deployed to remove floating debris. 	1			
Landscape and Visual				
 The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD. 	V		2.5	
 Surface of outer slopes of the Fill Bank shall preferably be hydroseeded. 	1			
Stockpile of public fill shall be removed in a sequence to allow the outer hydrseeded to be removed later than other portions as far as practicable.	V			
 Casuarina equisetifolia were planted as buffer tree along the northern perimeter of the Site. The height of Casuarina equisetifolia was maintained at bleast 3m above soil level. 	7			
 Lighting shall be set to minimise night-time glare. 	~			





Environmental Checklist		ement tages		Remark	
			N/A		
Naste Management					
Construction Waste Management					
Relevant licence / permits for disposal of construction waste or excavated materials available for inspection.	~				
Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal.	1		1		
Mud and debris should be removed from waterworks access roads and associated drainage systems.	V				
Provision of sufficient waste disposal points and regular collection for disposal. Appropriate measures should be employed to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.	V				
 Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. 	~				
Prior to disposal of C&D waste, recyclable materials should be salvaged for reuse (such as wood and metal) and inert waste utilised as public fill to minimise the quantity of waste to be disposed of to landfill.	7				
In order to monitor the disposal of C&D material and solid wastes at public filling areas and landfills, and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements.	V				
Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.	V				
Chemical Waste Management					
It is required to register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	7				
After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	7				
 Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation. 	1				
Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility.	1				
Chemical wastes including waste oil should be stored property in designated areas, e.g. chemical waste storage area.	1				
 The designated chemical waste storage area should only be used for storing chemical wastes. 	1				
The set-up of chemical waste storage area should		1			
 Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition. 	V				
 Be enclosed on at least 3 sides and securely closed. 	1				
 Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest. 	7				
Have adequate ventilation.	1				
 Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary). 	1				
 Be arranged so that incompatible materials are adequately separated. 	1				





Environmental Checklist		ement		Remark	
	Yes		N/A		
Warning panels should be displayed at the waste storage area.	V				
Waste storage area should be cleaned and maintained regularly.	1				
Chemical waste should be transported regularly by a registered chemical waste collector to a facility licensed to receive chemical waste.	1				
All generators, fuel and oil storage should be within bundle areas.	1	-			
Oil leakage from machinery, vehicle and plant should be prevented.	1				
In the event of chemical waste / dangerous goods / chemicals spillage or leakage, the procedures as outlined in the Spillage Response Plan should be followed.	4				
The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place.	1				
Good Site Practices					
 Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site. 	4				
 Training of site personnel in proper waste management and chemical handling procedures should be provided. 	V				
Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment.	1				
 Proper storage and site practices to minimise the potential for damage or contamination of construction materials. 	V				
The Environmental Permit should be displaced conspicuously on site.	V				
Construction noise permits should be posted at site entrance or available for site inspection.	1				
Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	V				
Chemical storage area provided with lock and located on sealed areas.	1				
All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank).	~				
Any unused chemicals or those with remaining functional capacity should be recycled.	1				
Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors.	V				
To encourage collection of aluminium cans by individual collectors.	V				
Separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce.	V				
A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods.	V				
A collection area should be provided where waste can be stored and loaded prior to removal from site. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light material. If an open area is unavoidable for the storage or loading/unloading of wastes, then the area should be bunded and all the polluted surface run-off collected within this area should be diverted into wastewater treatment system.	1				



Summary of the Weekly Site Inspection:

Item	Details of defective works or observations	Proposed Follow Up Action	Photo Ref.	Further Action Required (Yes/No)	Target Completion Date

Remark

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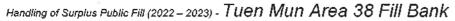
Remark			

	Name	Title	Signature	Date
Checked by	June Lau	ET Representative	/ re	05 October 2023
			U	



Inspection Date	12-10-23
Time	2 10:00
Weather	Sunny / Fine / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy
Wind	: Calm / Light / Breeze / Strong
Temperature	: 28C
Humidity	: High / Moderate / Low

Inspected by	CEDD	Contractor / Sub-Contactor	ET
Signature:	M	d	A S
Name:	(k/b	Kwok Winh LAM	chan Hon Lon
Title	ALO W	ĒO	Technician





	Environmental Checklist			ation	Remark
		Yes	No	N/A	
Fugitive Dust I	Emission				
 Dust control 	I / mitigation measures shall be provided to prevent dust nuisance.	1			
 Water spray 	/s shall be provided and used to dampen materials.	4			
 All stockpile 	of aggregate or spoil should be enclosed or covered and water applied in dry or windy condition.	1			
tail boards,	with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be a clean tarpaulin.	4			
 Unpaved an 	eas should be watered regularly to avoid dust generation.	V			
 The designation 	ated site main haul road shall be paved or regular watering.	1	-		
 The haul ros 	ad inside the site and public road around the site entrance should be kept clean and free from dust.	1			
 Wheel wash 	ning facilities including high-pressure water jet shall be provided at the entrance of work site.	1			
 Every vehic 	le shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.	V			
The tempora	ary slope surfaces shall be covered with impermeable sheet or sprayed with water,	V		1	
 Vehicle and 	equipment should be switched off while not in use.	1			
 All plant and 	d equipment should be well maintained e.g. without black smoke emission.	1			
 Open burnir 	ng should be prohibited.	V			
 Approval or vehicles at Cap.311). 	exemption Non-road Mobile Machinery (NRMM) labels should be painted or securely fixed on regulated machines and non-road a conspicuous position according to the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation (APCO	1			
Noise Impact					
 The approve 	ed method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	V			
 The constru 	actions works should be scheduled to minimize noise nuisance.	V			
 Only well m 	aintained plant should be operated on-site and plant should be serviced regularly during the construction works.	V			
 Powered me 	echanical equipment (PME) should be covered or shielded by appropriate acoustic materials.	1			
	ssors and hand held breakers should have noise labels.	4			
	ors and generators should operate with door closed.	4			
 Machines a 	ind plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	1			
 Noisy equip 	oment and mobile plant shall always be site away from NSRs.	V			



Environmental Checklist		ement. tages		Remark	
	Yes No N/A				
Water Quality					
 Drainage system and the sand / silt removal facilities should be adequate and well maintained to prevent flooding and overflow, especially after rain storms. 	4				
The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.	1				
Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding.	V				
The material shall be properly covered to prevent washed away especially before rainstorm.	V				
 The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water. 	1				
 Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD. 	1				
 Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning property at all times. 	1				
 A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains. 	V				
The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	1				
Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided.	V				
 The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities. 	1				
 Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water. 	1				
The barges shall be in right size such that adequate clearance in maintained between the vessels and the seabed at all states of the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller wash.	V				
 All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport. 	V				
 Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal. 	1				
 Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer. 	V				
The work activities shall not cause any visible foam, oil, grease, scurn, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities.	1				
 A waste collection vessel shall be deployed to remove floating debris. 	~				
Landscape and Visual					
 The maximum stockpilling height at the fill bank shall be limited to a maximum of +40mPD. 	V				
 Surface of outer slopes of the Fill Bank shall preferably be hydroseeded. 	V				
Stockpile of public fill shall be removed in a sequence to allow the outer hydrseeded to be removed later than other portions as far as practicable.	V				
 Casuarina equisetifolia were planted as buffer tree along the northern perimeter of the Site. The height of Casuarina equisetifolia was maintained at bleast 3m above soil level. 	1				
Lighting shall be set to minimise night-time glare.	~				



Environmental Checklist			ation	Remark	
			N/A		
Vaste Management					
Construction Waste Management					
Relevant licence / permits for disposal of construction waste or excavated materials available for inspection.	V				
Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal.	V				
Mud and debris should be removed from waterworks access roads and associated drainage systems.	1				
Provision of sufficient waste disposal points and regular collection for disposal. Appropriate measures should be employed to minimise windblow litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.	1				
Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and theil proper disposal.	. 1				
Prior to disposal of C&D waste, recyclable materials should be salvaged for reuse (such as wood and metal) and inert waste utilised as public fill to minimise the quantity of waste to be disposed of to landfill.					
In order to monitor the disposal of C&D material and solid wastes at public filling areas and landfills, and to control fiy-tipping, a trip-ticket system should be included as one of the contractual requirements.	V				
Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.	1				
Chemical Waste Management					
It is required to register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Dispose Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observe and complied with for control of chemical wastes.					
After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	• 1				
Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other license facility in accordance with the Chemical Waste (General) Regulation.	3 1				
Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility.	1				
Chemical wastes including waste oil should be stored property in designated areas, e.g. chemical waste storage area.	1				
The designated chemical waste storage area should only be used for storing chemical wastes.	V				
The set-up of chemical waste storage area should	-				
Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition.	1				
 Be enclosed on at least 3 sides and securely closed. 	1				
 Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest. 					
 Have adequate ventilation. 	1				
 Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary). 	1				
Be arranged so that incompatible materials are adequately separated.	V				



Environmental Checklist	Imple	menta tages	ation *	Remark
	Yes		N/A	
 Warning panels should be displayed at the waste storage area. 	1			
 Waste storage area should be cleaned and maintained regularly. 	V			
 Chemical waste should be transported regularly by a registered chemical waste collector to a facility licensed to receive chemical waste. 	V			
 All generators, fuel and oil storage should be within bundle areas. 	1			
 Oil leakage from machinery, vehicle and plant should be prevented. 	1			
 In the event of chemical waste / dangerous goods / chemicals spillage or leakage, the procedures as outlined in the Spillage Response Plan should be followed. 	V			
The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place.	1			
Good Site Practices				
 Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site. 	V			
 Training of site personnel in proper waste management and chemical handling procedures should be provided. 	V			
 Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment. 	V			
 Proper storage and site practices to minimise the potential for damage or contamination of construction materials. 	V			
The Environmental Permit should be displaced conspicuously on site.	V			T
 Construction noise permits should be posted at site entrance or available for site inspection. 	V			
 Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. 	1			
 Chemical storage area provided with lock and located on sealed areas. 	1			
 All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank). 	1			
 Any unused chemicals or those with remaining functional capacity should be recycled. 	V			
 Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors. 	V			
To encourage collection of aluminium cans by individual collectors.	7			
 Separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce. 	1			
 A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods. 	1			
A collection area should be provided where waste can be stored and loaded prior to removal from site. An enclosed and covered area is preferred to reduce the occurrence of wind blown' light material. If an open area is unavoidable for the storage or loading/unloading of wastes, then the area should be bunded and all the polluted surface run-off collected within this area should be diverted into wastewater treatment system.	V			



Summary of the Weekly Site Inspection:

ltem	Details of defective works or observations	Proposed Follow Up Action	Photo Ref.	Further Action Required (Yes/No)	Target Completion Date

Remark

	Name	Title	Signature	Date
Checked by	June Lau	ET Representative	100	12 October 2023
			0	

CEDD Contract No.: CV/2021/09

Handling of Surplus Public Fill (2022-2023) - Tuen Mun Area 38 Fill Bank



Inspection Date

Time

: 19. 10.23 : 10:00

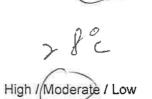
Weather	: Sunny / Fine / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy

Wind

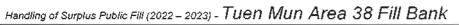
: Calm / Light Breeze / Strong

Temperature

Humidity



Inspected by	CEDD	Contractor / Sub-Contactor	ET
Signature:			
	24	d-c	Any
Name:			
	K.C. Usung	KNOK WIND LAM	das Hon lan
Title			11.
	her.	Eo	Technicion





	Environmental Checklist			ation *	Remark
				N/A	1
Fugitive Du	st Emission				
 Dust cor 	ntrol / mitigation measures shall be provided to prevent dust nuisance.	V			
 Water sp 	prays shall be provided and used to dampen materials.	V			
 All stock 	pile of aggregate or spoil should be enclosed or covered and water applied in dry or windy condition.	1			
tail boar	icle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and ds. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be by a clean tarpaulin.	1			
 Unpaved 	d areas should be watered regularly to avoid dust generation.	V			
 The des 	ignated site main haul road shall be paved or regular watering.	V			
 The hau 	I road inside the site and public road around the site entrance should be kept clean and free from dust.	V			
 Wheel w 	vashing facilities including high-pressure water jet shall be provided at the entrance of work site.	1			
 Every very 	ehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.	V			
 The tem 	porary slope surfaces shall be covered with impermeable sheet or sprayed with water.	1			
Vehicle	and equipment should be switched off while not in use.	1			
	and equipment should be well maintained e.g. without black smoke emission.	1			
	urning should be prohibited.	1			
	al or exemption Non-road Mobile Machinery (NRMM) labels should be painted or securely fixed on regulated machines and non-road at a conspicuous position according to the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation (APCO 1).	4			
Noise Impa	ct				
The app	proved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	7			
 The con 	structions works should be scheduled to minimize noise nuisance.	1			
 Only we 	Il maintained plant should be operated on-site and plant should be serviced regularly during the construction works.	V			
Powered	d mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.	1			
	pressors and hand held breakers should have noise labels.	V			
	essors and generators should operate with door closed.	V			
	es and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	1			
 Noisy ed 	quipment and mobile plant shall always be site away from NSRs.	√.			



Environmental Checklist		ement tages	Remark
	Yes No N/		
Water Quality			
 Drainage system and the sand / silt removal facilities should be adequate and well maintained to prevent flooding and overflow, especially after rain storms. 	1		0
 The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge. 	V		
 Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding. 	V		
 The material shall be properly covered to prevent washed away especially before rainstorm. 	V		
The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.	V		
 Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD. 	7		
Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	~		
 A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains. 	1		
 The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains. 	1		
Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided.	V		
The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.	1		
Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water.	V		
The barges shall be in right size such that adequate clearance in maintained between the vessels and the seabed at all states of the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller wash.	7		
 All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport. 	1		
 Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal. 	7		
Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.	V		
The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities.	7		
A waste collection vessel shall be deployed to remove floating debris.	V		
Landscape and Visual			
The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD.	1		
Surface of outer slopes of the Fill Bank shall preferably be hydroseeded.	V		
Stockpile of public fill shall be removed in a sequence to allow the outer hydrseeded to be removed later than other portions as far as practicable.	1		
Casuarina equisetifolia were planted as buffer tree along the northern perimeter of the Site. The height of Casuarina equisetifolia was maintained at bleast 3m above soil level.	1		
Lighting shall be set to minimise night-time glare.	V		



Environmental Checklist			ation *	Remark	
		No			
Vaste Management					
Construction Waste Management					
Relevant licence / permits for disposal of construction waste or excavated materials available for inspection.	V		1		
Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal.	1				
Mud and debris should be removed from waterworks access roads and associated drainage systems.	1				
Provision of sufficient waste disposal points and regular collection for disposal. Appropriate measures should be employed to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.	V				
Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.	V				
Prior to disposal of C&D waste, recyclable materials should be salvaged for reuse (such as wood and metal) and inert waste utilised as public fill to minimise the quantity of waste to be disposed of to landfill.	1				
In order to monitor the disposal of C&D material and solid wastes at public filling areas and landfills, and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements.	1				
Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.	7				
Chemical Waste Management					
It is required to register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	V				
After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	1				
Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other ticensed facility in accordance with the Chemical Waste (General) Regulation.	1				
Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility.	V				
Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area.	\checkmark				
The designated chemical waste storage area should only be used for storing chemical wastes.	1				
The set-up of chemical waste storage area should			1		
Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition.	1				
Be enclosed on at least 3 sides and securely closed.	V				
 Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest. 	V				
Have adequate ventilation.	1	1	ļ		
 Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary). 	\sim				
Be arranged so that incompatible materials are adequately separated.	1				



Environmental Checklist	Implementation Stages*			Remark
	Yes		N/A	
Warning panels should be displayed at the waste storage area.	V			
 Waste storage area should be cleaned and maintained regularly. 	1			
 Chemical waste should be transported regularly by a registered chemical waste collector to a facility licensed to receive chemical waste. 	1			
All generators, fuel and oil storage should be within bundle areas.	1			
Oil leakage from machinery, vehicle and plant should be prevented.	V			
 In the event of chemical waste / dangerous goods / chemicals spillage or leakage, the procedures as outlined in the Spillage Response Plan should be followed. 	1			
The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place.	1			
Good Site Practices	ALC: NO			
 Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site. 	1			
 Training of site personnel in proper waste management and chemical handling procedures should be provided. 	1			
 Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment. 	V			
 Proper storage and site practices to minimise the potential for damage or contamination of construction materials. 	1			
The Environmental Permit should be displaced conspicuously on site.	1			1
 Construction noise permits should be posted at site entrance or available for site inspection. 	V			
Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	V			
 Chemical storage area provided with lock and located on sealed areas. 	V			
 All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank). 	1			
 Any unused chemicals or those with remaining functional capacity should be recycled. 	1			
 Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors. 	V			
To encourage collection of aluminium cans by individual collectors.	V			
Separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce.	V			Pr
A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods.	1			
 A collection area should be provided where waste can be stored and loaded prior to removal from site. An enclosed and covered area is preferred to reduce the occurrence of wind blown' light material. If an open area is unavoidable for the storage or loading/unloading of wastes, then the area should be bunded and all the polluted surface run-off collected within this area should be diverted into wastewater treatment system. 	V			



Summary of the Weekly Site Inspection:

Item	Details of defective works or observations	Proposed Follow Up Action	Photo Ref.	Further Action Required (Yes/No)	Target Completion Date
		2			

Remark

x

1.1	

Checked by June Lau ET Representative	19 October 2023

CEDD Contract No.: CV/2021/09

Handling of Surplus Public Fill (2022-2023) - Tuen Mun Area 38 Fill Bank

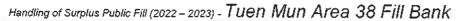


Inspection Date	•	26-10-23
Time	:	10:00
Weather Wind		Sunny / Fine / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy Calm / Light Breeze / Strong
Temperature Humidity	:	High / Moderate / Low

Inspected by	CEDD	Contractor / Sub-Contactor	ET
Signature:		2	
			45
	13Kg		
Name:			
	So Tak fin	Kwok winch LAM	chan From Lan
Title	J. and J. C.	-	- 1 -
	Alow	EO	Technician



Environmental Checklist	Implementation Stages*					Remark
		Yes No N/A				
Fugitive Dust Emission						
 Dust control / mitigation measures shall be provided to prevent dust nuisance. 	1					
 Water sprays shall be provided and used to dampen materials. 						
All stockpile of aggregate or spoil should be enclosed or covered and water applied in dry or windy condition.	1					
 Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. 	1					
 Unpaved areas should be watered regularly to avoid dust generation. 	4					
 The designated site main haul road shall be paved or regular watering. 	V					
 The haul road inside the site and public road around the site entrance should be kept clean and free from dust. 	1					
 Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site. 	4					
Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.	V					
 The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water. 	V					
 Vehicle and equipment should be switched off while not in use. 	V					
 All plant and equipment should be well maintained e.g. without black smoke emission. 	V					
Open burning should be prohibited.	1					
 Approval or exemption Non-road Mobile Machinery (NRMM) labels should be painted or securely fixed on regulated machines and non-road vehicles at a conspicuous position according to the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation (APCO Cap.311). 	V					
Noise Impact						
 The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted. 	V					
 The constructions works should be scheduled to minimize noise nuisance. 	V					
 Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works. 	1					
 Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials. 	1					
Air compressors and hand held breakers should have noise labels.	1					
Compressors and generators should operate with door closed.	4					
 Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum. 	1					
 Noisy equipment and mobile plant shall always be site away from NSRs. 	V					





Environmental Checklist	Implementation Stages*		Implementation Remark Stages*		
		Yes No N/A			
Water Quality					
Drainage system and the sand / silt removal facilities should be adequate and well maintained to prevent flooding and overflow, especially after rain storms.	V				
The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.	V				
Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding.	V				
The material shall be properly covered to prevent washed away especially before rainstorm.	V				
The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.	1				
Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.	7				
Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	1				
A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains.	4				
The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	V				
Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided.	V				
The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.	2				
Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water.	V				
The barges shall be in right size such that adequate clearance in maintained between the vessels and the seabed at all states of the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller wash.	V				
All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport.	4				
Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal.	1	·			
Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.	1				
The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities.	4				
A waste collection vessel shall be deployed to remove floating debris.	4				
Landscape and Visual					
The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD.	V				
Surface of outer slopes of the Fill Bank shall preferably be hydroseeded.	V				
Stockpile of public fill shall be removed in a sequence to allow the outer hydrseeded to be removed later than other portions as far as practicable.	V				
Casuarina equisetifolia were planted as buffer tree along the northern perimeter of the Site. The height of Casuarina equisetifolia was maintained at bleast 3m above soil level.	1				
Lighting shall be set to minimise night-time glare.	V				



Environmental Checklist	Implementation Stages*			Remark
		No		
Waste Management				
Construction Waste Management				
Relevant licence / permits for disposal of construction waste or excavated materials available for inspection.	1			
Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal,	V			
Mud and debris should be removed from waterworks access roads and associated drainage systems.	1	1		
Provision of sufficient waste disposal points and regular collection for disposal. Appropriate measures should be employed to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.	V			
Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.	V			
Prior to disposal of C&D waste, recyclable materials should be salvaged for reuse (such as wood and metal) and inert waste utilised as public fill to minimise the quantity of waste to be disposed of to landfill.	V			
 In order to monitor the disposal of C&D material and solid wastes at public filling areas and landfills, and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements. 	V			
Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.	1			
Chemical Waste Management				
It is required to register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	V			
 After use, chemical wastes (e.g. cleaning fluids, solvents, tubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. 	1			
Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation.	1			
Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility.	1			
 Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area. 	V			
 The designated chemical waste storage area should only be used for storing chemical wastes. 	1			
The set-up of chemical waste storage area should		Sale of		
Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition.	1			
Be enclosed on at least 3 sides and securely closed.	1			
 Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest. 	1			
Have adequate ventilation.	V			
 Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary). 	V			
 Be arranged so that incompatible materials are adequately separated. 	1			



Handling of Surplus Public Fill (2022 - 2023) - Tuen Mun Area 38 Fill Bank

Environmental Checklist	Implementation Stages*					Remark
		Yes No N/A				
 Warning panels should be displayed at the waste storage area. 	V					
 Waste storage area should be cleaned and maintained regularly. 	V					
 Chemical waste should be transported regularly by a registered chemical waste collector to a facility licensed to receive chemical waste. 	1					
All generators, fuel and oil storage should be within bundle areas.	V	-				
Oil leakage from machinery, vehicle and plant should be prevented.	1					
 In the event of chemical waste / dangerous goods / chemicals spillage or leakage, the procedures as outlined in the Spillage Response Plan should be followed. 	1					
 The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place. 	1					
Good Site Practices						
 Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site. 	V	24.053				
 Training of site personnel in proper waste management and chemical handling procedures should be provided. 	1					
 Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment. 	1					
 Proper storage and site practices to minimise the potential for damage or contamination of construction materials. 	1					
The Environmental Permit should be displaced conspicuously on site.	V					
 Construction noise permits should be posted at site entrance or available for site inspection. 	1					
 Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. 	V					
 Chemical storage area provided with lock and located on sealed areas. 	1					
All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank).	1					
 Any unused chemicals or those with remaining functional capacity should be recycled. 	V					
Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors.	V					
To encourage collection of aluminium cans by individual collectors.	V					
 Separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce. 	V					
 A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods. 	1					
A collection area should be provided where waste can be stored and loaded prior to removal from site. An enclosed and covered area is preferred to reduce the occurrence of wind blown' light material. If an open area is unavoidable for the storage or loading/unloading of wastes, then the area should be bunded and all the polluted surface run-off collected within this area should be diverted into wastewater treatment system.	V					



Summary of the Weekly Site Inspection:

Item	Details of defective works or observations	Proposed Follow Up Action	Photo Ref.	Further Action Required (Yes/No)	Target Completion Date

Remark

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	Name	Title	Signature	Date
Checked by	June Lau	ET Representative		26 October 2023
			0	

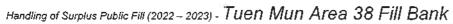
CEDD Contract No.: CV/2021/09

Handling of Surplus Public Fill (2022-2023) - Tuen Mun Area 38 Fill Bank



Inspection Date	30-10-23
Time	: 14:30
Weather	: Sunny / Fine / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy
Wind	Calm / Light / Breeze / Strong
Temperature	2fc
Humidity	: High Moderate / Low

Inspected by	CEDD	Contractor / Sub-Contactor	ET
Signature:	11.		
Name:	C.K.+6	Knok winh upon	char Iton Lan
Title	AZOL	ĒO	Techu i crom





Environmental Checklist			Implementation Stages*		Remark	
		Yes		N/A		
Fugitive Dust Emission						
•	Dust control / mitigation measures shall be provided to prevent dust nuisance.	7				
•	Water sprays shall be provided and used to dampen materials.	4				
	All stockpile of aggregate or spoil should be enclosed or covered and water applied in dry or windy condition.	V				
	Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin.	1				
8	Unpaved areas should be watered regularly to avoid dust generation.	V				
	The designated site main haul road shall be paved or regular watering.	V				
•	The haul road inside the site and public road around the site entrance should be kept clean and free from dust.	4				
•	Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.	1				
•	Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.	V				
•	The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.	V				
	Vehicle and equipment should be switched off while not in use.	V				
•) 9	Ail plant and equipment should be well maintained e.g. without black smoke emission.	V				
•	Open burning should be prohibited.	V				
	Approval or exemption Non-road Mobile Machinery (NRMM) labels should be painted or securely fixed on regulated machines and non-road vehicles at a conspicuous position according to the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation (APCO Cap.311).	4				
Nois	se Impact					
16	The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	V				
(#)	The constructions works should be scheduled to minimize noise nuisance.	V				
	Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.	1				
•	Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials,	1				
•	Air compressors and hand held breakers should have noise labels.	V				
•	Compressors and generators should operate with door closed.	1				
٠	Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	1				
•	Noisy equipment and mobile plant shall always be site away from NSRs.	1				



Environmental Checklist			ation	Remark
	Yes		N/A	-
Water Quality				
 Drainage system and the sand / silt removal facilities should be adequate and well maintained to prevent flooding and overflow, especially after rain storms. 	~			
The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.	V			
 Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding. 	V			
 The material shall be properly covered to prevent washed away especially before rainstorm. 	1			
The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.	V			
 Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD. 	1			
 Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. 	7			
 A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains. 	1			
 The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains. 	1			
 Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided. 	V			
 The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities. 	1			
 Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water. 	V			
 The barges shall be in right size such that adequate clearance in maintained between the vessels and the seabed at all states of the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller wash. 	1			
 All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport. 	1			
 Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal. 	1			
Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.	1			
 The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities. 	1			
A waste collection vessel shall be deployed to remove floating debris.	1			
Landscape and Visual				
 The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD. 	V			
 Surface of outer slopes of the Fill Bank shall preferably be hydroseeded. 	V			
Stockpile of public fill shall be removed in a sequence to allow the outer hydrseeded to be removed later than other portions as far as practicable.	V			
 Casuarina equisetifolia were planted as buffer tree along the northern perimeter of the Site. The height of Casuarina equisetifolia was maintained at bleast 3m above soil level. 	V			
 Lighting shall be set to minimise night-time glare. 	1			

Handling of Surplus Public Fill (2022 – 2023) - Tuen Mun Area 38 Fill Bank



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	Environmental Checklist		menta tages		Remark
			No		1
Wa	ste Management				
Co	nstruction Waste Management				
301	Relevant licence / permits for disposal of construction waste or excavated materials available for inspection.	4			
	Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal.	1			
	Mud and debris should be removed from waterworks access roads and associated drainage systems,	1			
-	Provision of sufficient waste disposal points and regular collection for disposal. Appropriate measures should be employed to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.	7			
•	Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.	1			
	Prior to disposal of C&D waste, recyclable materials should be salvaged for reuse (such as wood and metal) and inert waste utilised as public fill to minimise the quantity of waste to be disposed of to landfill.	7			
	In order to monitor the disposal of C&D material and solid wastes at public filling areas and landfills, and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements.	7			
	Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.	V			
Ch	Chemical Waste Management				
	It is required to register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	V			
•	After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	V			
	Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation.	V			
•	Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility.	V			
	Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area.	V			
	The designated chemical waste storage area should only be used for storing chemical wastes.	1			
	The set-up of chemical waste storage area should				
	 Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition. 	7			
	Be enclosed on at least 3 sides and securely closed.	V			
	 Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest. 	V			
	Have adequate ventilation.	V			
	 Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary). 	V			
	Be arranged so that incompatible materials are adequately separated.	1			



Environmental Checklist		menta tages		Remark
	Yes		N/A	
 Warning panels should be displayed at the waste storage area. 	V			
 Waste storage area should be cleaned and maintained regularly. 	4			
 Chemical waste should be transported regularly by a registered chemical waste collector to a facility licensed to receive chemical waste. 	1			
 All generators, fuel and oil storage should be within bundle areas. 	1			
Oil leakage from machinery, vehicle and plant should be prevented.	1			
In the event of chemical waste / dangerous goods / chemicals spillage or leakage, the procedures as outlined in the Spillage Response Plan should be followed.	V			
 The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place. 	V			
Good Site Practices	1240-50			
 Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site. 	V			
 Training of site personnel in proper waste management and chemical handling procedures should be provided. 	1			
 Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment. 	V			
 Proper storage and site practices to minimise the potential for damage or contamination of construction materials. 	1			
The Environmental Permit should be displaced conspicuously on site.	1			
 Construction noise permits should be posted at site entrance or available for site inspection. 	1			
 Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. 	V			
 Chemical storage area provided with lock and located on sealed areas. 	1			
 All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank). 	1			
 Any unused chemicals or those with remaining functional capacity should be recycled. 	1			
 Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors. 	1	-		
To encourage collection of aluminium cans by individual collectors.	7			
 Separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce. 	V			
 A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods. 	V			
A collection area should be provided where waste can be stored and loaded prior to removal from site. An enclosed and covered area is preferred to reduce the occurrence of wind blown' light material. If an open area is unavoidable for the storage or loading/unloading of wastes, then the area should be bunded and all the polluted surface run-off collected within this area should be diverted into wastewater treatment system.	V			



Summary of the Weekly Site Inspection:

Item	Details of defective works or observations	Proposed Follow Up Action	Photo Ref.	Further Action Required (Yes/No)	Target Completion Date

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	Name	Title	Signature	Date
Checked by	June Lau	ET Representative	1 And	30 October 2023



Appendix I

Implementation Schedule of Mitigation Measures



Environmental Mitigation Implementation Schedule

	Location					
Environmental Protection Measures		Implemented		Not implemented	Not Applicable	
Air Quality						
 Dust control / mitigation measures shall be provided to prevent dust nuisance. 	All areas					
 Water sprays shall be provided and used to dampen materials. 	All areas					
 All stockpile of aggregate or soil should be enclosed or covered and water applied in dry or windy condition. 	All areas					
 Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. 	All areas	V				
 Unpaved areas should be watered regularly to avoid dust generation. 	Site Egress					
 The designated site main haul road shall be paved or regular watering. 	All haul roads					
 The public road around the site entrance should be kept clean and free from dust. 	All areas					
 Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site and wash-water shall have sand and silt settled out or removed before being discharged into storm drains. 	Site Egress					
 Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank. 	Site Egress					
 The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water. 	All areas					
 Vehicle and equipment should be switched off while not in use. 	All areas					
 All plant and equipment should be well maintained e.g. without black smoke emission. 	All areas					
Open burning should be prohibited.	All areas					
 Approval or exemption Non-road Mobile Machinery (NRMM) labels should be painted or securely fixed on regulated machines and non-road vehicles at a conspicuous position according to the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation (APCO Cap.311). 	All areas	~				
Noise Impact						
 The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted. 	All areas	\checkmark				
Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.	All areas					
 Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials. 	All areas					
 Air compressors and hand held breakers should have noise labels. 	All areas					
 Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum. 	All areas					
 Noisy equipment and mobile plant shall always be site away from NSRs. 	All areas	\checkmark				



	Location	Implementati	on Status				
Environmental Protection Measures		Implemented	Partially implemented	Not implemented	Not Applicable		
Water Quality							
The existing / realigned intercepting channels and the sand / silt removal facilities shall be used and maintained.	All areas						
 Temporary intercepting drains should be used at the stockpiling area to divert polluted stormwater to the intercepting channels. Earth bunds and sand bay barriers shall be used to assist the diversion of polluted stormwater to the intercepting channels. 	All areas						
 The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge. 	All areas	\checkmark					
 The material shall be properly covered to prevent washed away especially before rainstorm. 	All areas						
 Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding. 	All areas						
 The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water. 	Temporary Slopes						
 Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. 	All areas	\checkmark					
 A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains. 	Wheel Washing facility						
 The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains. 	Site Egress	\checkmark					
 Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided. 	Site Office	\checkmark					
 The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities. 	All areas	\checkmark					
 Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water. 	All areas	\checkmark					
 Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer. 	Along the seafront	\checkmark					
 A waste collection vessel shall be deployed to remove floating debris. 	Along the seafront	\checkmark					
Landscape and Visual							
The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD.	All areas						
Surface of outer slopes of the Fill Bank shall preferably be hydroseeded.	Completed slopes	\checkmark					
• Stockpile of public fill shall be removed in a sequence to allow the outer hydrseeded to be removed later than other portions as far as practicable.	Completed slopes	V					
• Casuarina equisetifolia were planted as buffer tree along the northern perimeter of the Site. The height of Casuarina equisetifolia was maintained at least 3m above soil level.	Site boundary	\checkmark					
Lighting shall be set to minimise night-time glare.	All areas						
Waste Management							
Construction Waste Management							
Relevant licence / permits for disposal of construction waste or excavated materials available for inspection.	All areas						



		Location	Implementati	on Status		
	Environmental Protection Measures		Implemented	Partially implemented	Not implemented	Not Applicable
•	Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal.	All areas	\checkmark			
٠	Mud and debris should be removed from waterworks access roads and associated drainage systems.	All areas				
•	Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.	All areas				
•	Prior to disposal of C&D waste, recyclable materials should be salvaged for reuse (such as wood and metal) and inert waste utilised as public fill to minimise the quantity of waste to be disposed of to landfill.	All areas	\checkmark			
•	In order to monitor the disposal of C&D material and solid wastes at public filling areas and landfills, and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements.	All areas	\checkmark			
•	Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.	All areas	\checkmark			
С	hemical Waste Management					
•	It is required to register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	Waste Storage Area	\checkmark			
•	After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	Waste Storage Area	\checkmark			
•	Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation.	Waste Storage Area				
•	Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility.	Waste Storage Area	\checkmark			
•	Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area.	Waste Storage Area	\checkmark			
•	The designated chemical waste storage area should only be used for storing chemical wastes.	Waste Storage Area				
T	he set-up of chemical waste storage area should					
•	Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition.	Waste Storage Area				
•	Be enclosed on at least 3 sides and securely closed.	Waste Storage Area				
•	Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest.	Waste Storage Area				
•	Have adequate ventilation.	Waste Storage Area	\checkmark			
•	Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary).	Waste Storage Area				
•	Be arranged so that incompatible materials are adequately separated.	Waste Storage Area				
•	Warning panels should be displayed at the waste storage area.	Waste Storage Area	\checkmark			



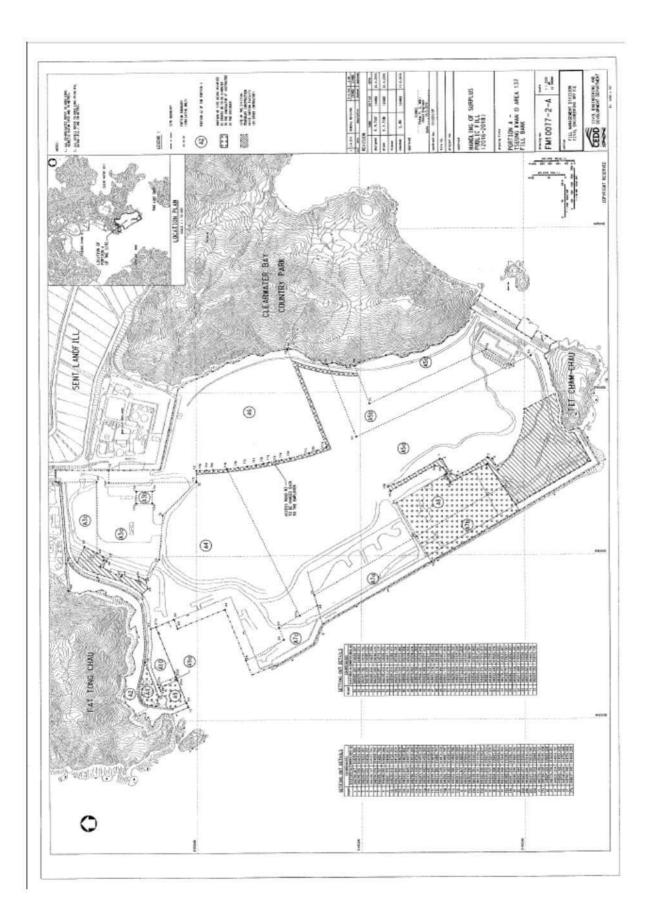
		Location	Implementati	on Status		
	Environmental Protection Measures		Implemented	Partially implemented	Not implemented	Not Applicable
• \	Vaste storage area should be cleaned and maintained regularly.	Waste Storage Area	\checkmark			
• (Chemical waste should be transported by a registered chemical waste collector to a facility licensed to receive chemical waste.	All areas	\checkmark			
• A	All generators, fuel and oil storage should be within bundle areas.	All areas	\checkmark			
• (Dil leakage from machinery, vehicle and plant should be prevented.	All areas				
• F	n the event of chemical waste / dangerous goods / chemicals spillage or leakage, the procedures as outlined in the Spillage Response Plan should be followed.	All areas	V			
• 1	The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place.	All areas				
Goo	d Site Practices					
• N a	Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.	All areas	V			
• 1	Fraining of site personnel in proper waste management and chemical handling procedures should be provided.	All areas				
	Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment.	All areas				
• F	Proper storage and site practices to minimise the potential for damage or contamination of construction materials.	All areas				
• 1	The Environmental Permit should be displaced conspicuously on site.	Site Entrance				
• (Construction noise permits should be posted at site entrance or available for site inspection.	Site Entrance				
	Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	All areas				
• (Chemical storage area provided with lock and located on sealed areas.	Chemical Storage Area	\checkmark			
	All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank).	Chemical Storage Area	\checkmark			
• A	Any unused chemicals or those with remaining functional capacity should be recycled.	All areas	\checkmark			
• F	Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors.	All areas	\checkmark			
• 1 v	To encourage collection of aluminium cans by individual collectors, separate labelled bins should be provided to segregate this vaste from other general refuse generated by the workforce.	All areas	\checkmark			
• A ti	A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. rip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods.	All areas	\checkmark			
a Io	A collection area should be provided where waste can be stored and loaded prior to removal from site. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light material. If an open area is unavoidable for the storage or bading/unloading of wastes, then the area should be bunded and all the polluted surface run-off collected within this area should be diverted into wastewater treatment system.	All areas	V			
• F	Remove wastes in a timely manner.	All areas				



Appendix J

Site General Layout plan







Appendix K

Monthly Summary Waste Flow Table

Monthly Summary Waste Flow Table for 2023

		Actual Quantitie	es of Inert C&I	O Materials Gene	erated Monthly			Actual Quantitie	es of C&D Was	stes Generated Mo	nthly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)
Jan	0	0	0	0	0	0	158.46	0	0	0.071	100.72
Feb	0	0	0	0	0	0	267.41	0	0	0	470.82
Mar	0	0	0	0	0	0	264.10	0	0	0	1339.48
Apr	0	0	0	0	0	0	140.31	0	0	0	89.08
May	0	0	0	0	0	0	153.19	0	0	0	87.17
Jun	0	0	0	0	0	0	145.63	0	0	0	118.30
Sub-total	0	0	0	0	0	0	1129.10	0	0	0	2205.57
Jul	0	0	0	0	0	0	182.88	0	0	0	140.63
Aug	0	0	0	0	0	0	174.89	0	0	0	101.76
Sep	0	0	0	0	0	0	153.37	0	0	0	198.60
Oct	0	0	0	0	0	0	172.15	0	0	0	136.14
Nov											
Dec											
Total	0	0	0	0	0	0	1812.39	0	0	0.071	2782.7

Notes: (1) The performance targets are given in **PS Clause 1.108(14)**.

(2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material

(4) The *Contractor* shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the *works*, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the *works* is equal to or exceeding 50,000 m³.



Appendix L

Monitoring Schedule for the Coming Month



Time Schedule for Impact Water Quality Monitoring (WQM), Impact Air Monitoring (1-hrTSP, 24-hr TSP and 24-hr RSP), Weekly Site Inspection (Weekly SI) and Impact Noise Monitor November 2023

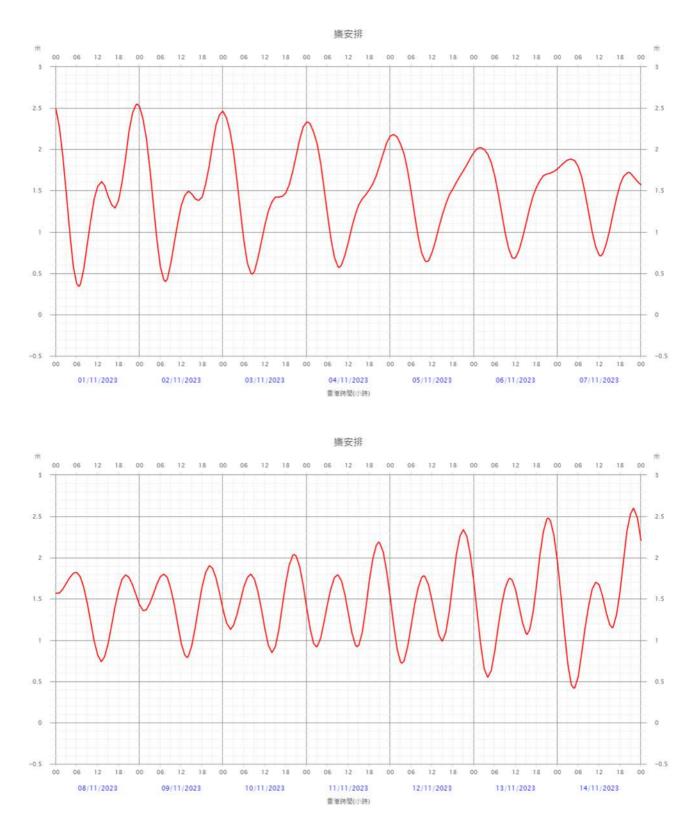
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
29-Oct	30-Oc	31-Oct	1-Nov	2-Nov	3-Nov	4-Nov
		1-hr TSP x 2 NM WQM Mid-flood		1-hr TSP x 1 Set 24 hr (3/11) NM Weekly SI (am) WQM Mid-flood	24-hr TSP 24-hr RSP	1-hr TSP x 2 WQM Mid-ebb
		(09:00-10:30) Mid-ebb (14:00-15:30)		(09:00-10:30) Mid-ebb (14:30-16:00)		(08:00-09:30) Mid-flood (13:00-14:30)
<u>5-Nov</u>	6-Nov	7-Nov 1-hr TSP x 1 NM WQM	8-Nov	9-Nov 24-hr TSP 24-hr TSP NM Weekly SI (am) WQM	<u>10-Nov</u>	11-No 1-hr TSP x 2 WQM
12-Nov	13-Nov	Mid-ebb (09:00-10:30) Mid-flood (14:00-15:30) 14-Nov	15-Nov	Mid-ebb (09:00-10:30) Mid-flood (14:30-16:00) 16-Nov	17-Nov	Mid-ebb (10:30-12:00) Mid-flood (15:30-17:00) 18-No
	WQM Mid-flood (08:30-10:00) Mid-ebb (13:00-14:30)	1-hr TSP x 1 Set 24 hr (15/11) NM	24-hr TSP 24-hr TSP WQM Mid-flood (09:00-10:30) Mid-ebb (13:30-15:00)	1-hr TSP x 2 NM Weekly SI (am)	1-hr TSP x 1 WQM Mid-flood (09:30-11:00) Mid-ebb (15:00-16:30)	
19-Nov	20-Nov	21-Nov 24-hr TSP 24-hr TSP NM WQM Mid-ebb (08:30-10:00) Mid-flood (13:00-14:30)	22-Nov	23-Nov 1-hr TSP x 2 NM Weekly SI (am) WQM Mid-ebb (09:00-10:30) Mid-flood (14:00-15:30)	24-Nov	25-Nc 1-hr TSP x 1 Set 24 hr (27/11) WQM Mid-ebb (10:00-11:30) Mid-flood (15:00-16:30)
26-Nov	27-Nov 24-hr TSP 24-hr TSP WQM Mid-flood (08:30-10:00) Mid-ebb (13:00-14:30)	28-Nov 1-hr TSP x 2 NM	29-Nov WQM Mid-flood (09:00-10:30) Mid-ebb (13:00-14:30)	30-Nov 1-hr TSP x 1 M Weekly SI (am)	1-Dec WQM Mid-flood (10:00-11:30) Mid-ebb (14:00-15:30)	2-De

Remarks:

The monitoring schedule may be changed due to unforeseen circumstances such as adverse weather.
 RSP measurement is not required in the EM&A manual and RSP would not presented in EM&A report.



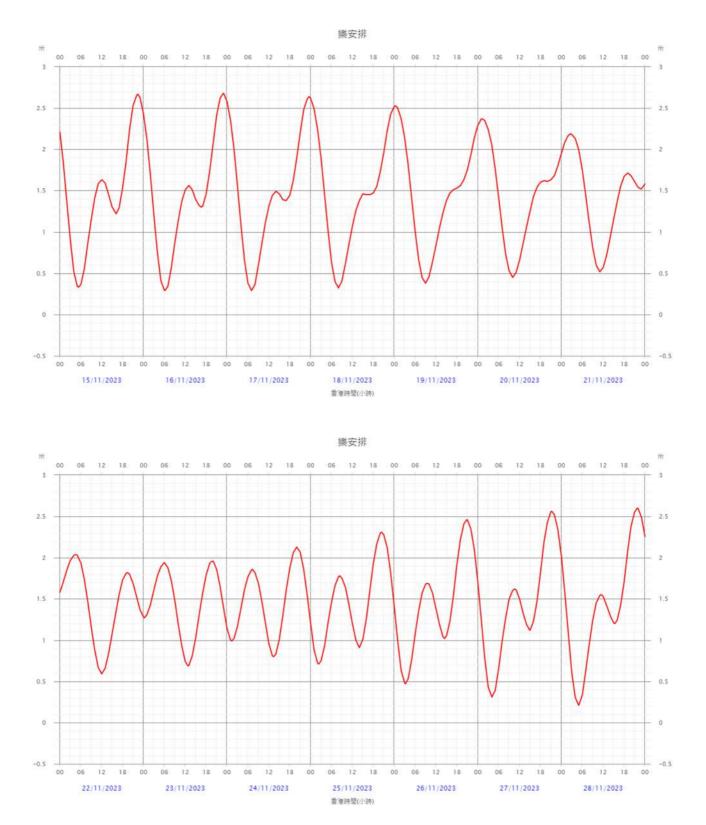
Predicted tide schedule from the Hong Kong Observatory for Impact Water Quality Monitoring (WQM)



November 2023



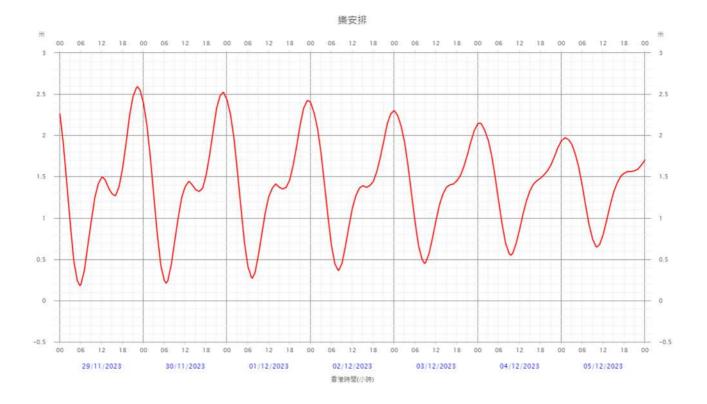
Predicted tide schedule from the Hong Kong Observatory for Impact Water Quality Monitoring (WQM)



November 2023



Predicted tide schedule from the Hong Kong Observatory for Impact Water Quality Monitoring (WQM)



November 2023



Appendix M

Reporting Month Monitoring Schedule



Time Schedule for Impact Water Quality Monitoring (WQM), Impact Air Monitoring (1-hrTSP, 24-hr TSP and 24-hr RSP), Weekly Site Inspection (Weekly SI) and Impact Noise Monitor October 2023

24-5mp 25-5mp 28-5mp 28-5mp 28-5mp 29-5mp 29-5mp Weekty SI (am) 1-hr TSP x 1 MM 1-hr TSP x 1 MM 24-hr TSP 24-hr TSP 1-hr TSP x 2 MM 1-hr TSP x 1 MM 1-hr TSP x 1 MM <th>Thursday Friday Saturday</th> <th>Thursday</th> <th>Wednesday</th> <th>Tuesday</th> <th>Monday</th> <th>Sunday</th>	Thursday Friday Saturday	Thursday	Wednesday	Tuesday	Monday	Sunday
Weekly SI (am) Wide-ubb Mid-abb 1-hr TSP x 1 MM NM WOM Mid-abb Mid-abb 24-hr TSP 24-hr RSP 1-hr TSP x 2 WOM Weekly SI (am) 1-hr TSP x 2 WoM Mid-abb 1-hr TSP x 1 WoM Mid-abb 1-hr TSP x 1 Wide-abb 2-hr TSP TSP x 1 Wide-abb 2-hr TSP T2-hr TSP		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Image: set of the set	24-hr TSP 24-hr RSP NM Weekly SI (am) WQM Mid-flood (07:30-09:00) Mid-ebb	24-hr TSP 24-hr RSP NM	WQM Mid-ebb (10:00-11:30) Mid-flood	1-hr TSP x 1	Weekly SI (am) WQM Mid-ebb (09:30-11:00) Mid-flood	
Set 24 hr (4/10) NM WQM Mid-flood (09:00-10:30) Mid-ebb Set 24 hr (8P (10:00-17:30) NM Weekly SI (am) WOM Mid-flood (10:00-17:30) Weekly SI (am) WGM Mid-flood (10:00-17:30) WCM Mid-flood (10:00-17:30) WCM Mid-flood (10:00-17:30) WCM Mid-flood (10:00-17:30) WCM Mid-flood (10:00-17:30) WCM Mid-flood (10:00-17:30) WCM Mid-flood (10:00-17:30) WCM Mid-flood (10:00-17:30) WCM Mid-flood (10:00-17:30) WCM Mid-flood (10:00-17:30) Hr TSP x 1 Set 24 hr (16/ WCM Mid-flood (10:00-17:30) Hr TSP x 1 Set 24 hr (16/ WCM Mid-flood (10:00-17:30) Hr TSP x 1 Set 24 hr (16/ WCM Mid-flood (10:00-17:30) WCM Mid-flood (10:00-17:30) WCM Mid-flood (10:00-17:30) WCM Mid-flood (10:00-17:30) WCM Mid-flood (10:00-17:30) Hr TSP x 1 Set 24 hr (27/0) NM debb Set 24 hr (27/0) NM debb WCM Mid-flood (10:00-17:30) MCM Mid-flood (10:00-17:30) WCM Mid-flood (10:00-17:30) WCM Mid-flood (10:00-17:30) MCM Mid-flood (10:00-17:30) Z+hr TSP x 1 Set 24 hr (27/0) NM debb MCM Mid-flood (10:00-17:30) Z+hr TSP x 1 Set 24 hr (27/0) NM debb MCM Mid-flood (10:00-17:30) 24-hr TSP 24-hr TSP 1-hr TSP x 1 Set 24 hr (37/1) 2-hr TSP x 1 Set 24 hr (37/1) </th <th>4-Oct 5-Oct 6-Oct 7-Oct</th> <th>5-</th> <th>4-Oct</th> <th>3-Oct</th> <th>2-Oct</th> <th>1-Oct</th>	4-Oct 5-Oct 6-Oct 7-Oct	5-	4-Oct	3-Oct	2-Oct	1-Oct
24-hr TSP 24-hr RSP NM WQM Mid-ebb 1-hr TSP x 2 NM Weekly SI (am) WQM Mid-flood 1-hr TSP x 1 NM Weekly SI (am) WQM Mid-flood 1-hr TSP x 1 Set 24 hr (16/ Weekly SI (am) WQM Mid-flood Set 24 hr (16/ Weekly SI (am) WQM Mid-flood 15-0x 16-0xt 17-0xt 18-0xt 19-0xt 20-0xt 24-hr TSP 24-hr RSP 1-hr TSP x 2 NM 1-hr TSP x 1 Set 24 hr (22/10) Mid-flood 19-0xt 20-0xt 24-hr TSP 24-hr RSP 1-hr TSP x 2 NM 1-hr TSP x 1 Set 24 hr (22/10) Mid-flood 1-hr TSP x 1 Set 24 hr (22/10) Mid-flood 20-0xt 24-hr RSP 1-hr TSP x 2 NM 1-hr TSP x 1 Set 24 hr (22/10) Mid-flood 20-0xt 20-0xt 24-hr RSP 1-hr TSP x 2 NM 1-hr TSP x 1 Set 24 hr (22/10) NM 20-0xt 20-0xt 24-hr RSP 1-hr TSP x 2 NM 24-0xt 25-0xt 26-0xt 27-0xt 24-hr RSP 1-hr TSP x 2 NM 24-0xt 25-0xt 26-0xt 27-0xt 24-hr RSP 1-hr TSP x 2 NM 24-0xt 26-0xt 27-0xt 24-hr TSP 24-hr TSP 24-hr RSP 1-hr TSP x 2 NM 1-hr TSP x 1 NM 24-hr TSP 24-hr RSP 1-hr TSP x 1 NM 24-hr TSP 24-hr TSP	NM Weekly SI (am) WQM WQM Mid-flood Mid-ebb (10:00-11:30) (09:00-10:30) Mid-ebb Mid-flood (16:00-17:30) (13:00-14:30)	NM Weekly SI (am) WQM Mid-flood (10:00-11:30) Mid-ebb (16:00-17:30)	24-hr RSP	Set 24 hr (4/10) NM WQM Mid-flood (09:00-10:30) Mid-ebb (14:00-15:30)		
24-hr RSP NNi Set 24 hr (16/ Weekly SI (am) Set 24 hr (16/ Weekly SI (am) WQM WQM WQM WQM Mid-lood Mid-bb (10:00-11:30) Mid-lood Mid-lood (10:00-11:30) Mid-lood (10:00-11:30) Mid-lood 15:00 16:00 17:00 18:00 19:00 20:00 24-hr RSP 1-hr TSP x 2 Set 24 hr (22/10) Mid-lood (10:00-11:30) Mid-lood WQM Mid-lood 10:00 18:00 19:00 20:00 20:00 24-hr RSP NM WQM WQM WGM WQM Mid-lood W0M Mid-lood (10:00-11:30) 1-hr TSP x 1 20:00 27:00 (13:00-14:30) 24-hr RSP NM WQM Mid-lood (13:00-14:30) 27:00 24-hr RSP 24-hr RSP NM Weekly SI (am) WQM WQM Mid-lood (13:00-14:30) 24-hr RSP 24-hr RSP NM Mid-lood (16:00-17:30) 26-00 27:00	1-Oct 12-Oct 13-Oct 14-Oct	12-	11-Oct	10-Oct	9-Oct	8-Oct
15-0ct 16-0ct 17-0ct 18-0ct 19-0ct 20-0ct 24-hr TSP 24-hr RSP 1-hr TSP x 2 NM 1-hr TSP x 1 NM Set 24 hr (22/10) NM WQM WQM WQM WQM WQM WQM WQM WQM WQM WQM WQM WQM WQM WQM WQM WQM WQM WQM WQM W1d-flood (D1:00-11:30) (D1	NM Set 24 hr (16/10) Weekly SI (am) WQM Wid-ebb Mid-flood (10:00-11:30) (08:00-09:30) Mid-flood Mid-ebb	NM Weekly SI (am) WQM Mid-ebb (10:00-11:30) Mid-flood		24-hr RSP NM WQM Mid-ebb (10:00-11:30) Mid-flood		
24-hr TSP 24-hr RSP 1-hr TSP x 2 NM 1-hr TSP x 2 NM 1-hr TSP x 1 Set 24 hr (22/10) NM wQM WQM Mid-flood (09:00-10:30) Mid-ebb (13:00-14:30) WQM WQM Mid-flood (10:00-11:30) WQM Mid-flood (10:00-11:30) WQM Mid-flood (10:00-11:30) WQM Mid-flood (13:00-14:30) WQM Mid-flood (13:00-14:30) 22-brt TSP 24-hr TSP 24-hr RSP 1-hr TSP x 2 NM 24-oct 25-oct 26-oct 27-oct 24-hr TSP 24-hr RSP 1-hr TSP x 2 NM 1-hr TSP x 1 Set 24 hr (28/10) NM 24-hr TSP 24-hr RSP 24-hr TSP 24-hr RSP VQM Mid-flood (14:00-15:30) 1-hr TSP x 1 Set 24 hr (28/10) NM 24-hr TSP 24-hr RSP 24-hr TSP 24-hr RSP VQM Mid-flood (14:00-15:30) 1-hr TSP x 1 Set 24 hr (28/10) NM 24-hr TSP 24-hr RSP 24-hr TSP 24-hr RSP VQM Mid-flood (09:00-10:30) 31-0ct 1-hr TSP x 1 Set 24 hr (3/11) 24-hr TSP 24-hr RSP 1-hr TSP x 1 Weekly SI (pm) 1-hr TSP x 2 NM NM VQM Mid-flood (09:00-10:30) WQM Mid-flood (09:00-10:30) WQM Mid-flood (09:00-10:30) WQM Mid-flood (09:00-10:30) WQM Mid-flood (09:00-10:30) WQM Mid-flood (09:00-10:30)			18-Oct		16-Oct	15-Oct
24-hr TSP 24-hr RSP 1-hr TSP x 2 NM 1-hr TSP x 2 NM 1-hr TSP x 1 Set 24 hr (28/10) NM 24-hr TSP 24-hr RSP WQM I-hr CSP x1 So -0x1 31-0x1 1-hr TSP x 1 So -0x1 So -0x1 31-0x1 1-hr TSP x 1 So -0x1	1-hr TSP x 1 Set 24 hr (22/10) NM Weekly SI (am) WQM Mid-ebb (07:30-09:00) Mid-flood (13:00-14:30)	1-hr TSP x 1 Set 24 hr (22/10) NM Weekly SI (am)	WQM Mid-flood (10:00-11:30) Mid-ebb (16:00-17:30)	1-hr TSP x 2 NM	24-hr TSP 24-hr RSP WQM Mid-flood (09:00-10:30) Mid-ebb (13:00-14:30)	
24-hr TSP 24-hr RSP 1-hr TSP x 2 NM Set 24 hr (28/10) NM 24-hr TSP 24-hr RSP WQM WQM WQM WQM Mid-ebb Mid-ebb Mid-ebb Mid-ebb (09:00-10:30) Mid-flood Mid-flood Mid-flood (14:00-15:30) 1-hr TSP x 1 Set 24 hr (3/11) 24-hr TSP 29-Oct 30-Oct 31-Oct 1-Nov 2-Nov 3-Nov Weekly SI (pm) 1-hr TSP x 2 NM Set 24 hr (3/11) 24-hr TSP 1-hr TSP x 1 Weekly SI (pm) 1-hr TSP x 2 NM 2-Nov 3-Nov 3-Nov WQM WQM WQM WQM WQM Mid-flood 1-hr TSP x 1 Weekly SI (pm) 1-hr TSP x 2 NM Set 24 hr (3/11) 24-hr TSP 1-hr TSP x 1 WQM WQM WQM WQM Mid-flood Mid-flood 1-hr TSP x 1 (09:00-10:30) 09:00-10:30) 09:00-10:30) 09:00-10:30) 07:30-09:00) 07:30-09:00)			25-Oct	24-Oct	23-Oct	22-Oct
Weekly SI (pm) 1-hr TSP x 2 NM 1-hr TSP x 1 Set 24 hr (3/11) 24-hr TSP 24-hr RSP 1-hr TSP x 1 WQM Wid-flood (09:00-10:30) (07:30-09:00)	Set 24 hr (28/10) 24-hr TSP NM 24-hr RSP Weekly SI (am) WQM Wid-ebb Mid-ebb (09:00-10:30) (10:30-12:00) Mid-flood Mid-flood (15:00-16:30) (16:00-17:30)	Set 24 hr (28/10) NM Weekly SI (am) WQM Mid-ebb (09:00-10:30) Mid-flood (15:00-16:30)		NM WQM Mid-ebb (09:00-10:30) Mid-flood (14:00-15:30)		24-hr RSP
Weekly SI (pm) 1-hr TSP x 2 NM Set 24 hr (3/11) NM 24-hr TSP 24-hr RSP 1-hr TSP x 1 WQM			1-Nov	31-Oct	30-Oct	29-Oct
Мід-еро Мід-еро Мід-еро Мід-тоод (14:00-15:30) (14:30-16:00) (13:00-14:30)	Set 24 hr (3/11) 24-hr TSP 24-hr RSP 1-hr TSP x 1 WQM WQM Mid-flood Mid-ebb (09:00-10:30) (07:30-09:00) Mid-flood Mid-ebb Mid-flood Mid-flood	Set 24 hr (3/11) NM WQM Mid-flood (09:00-10:30) Mid-ebb		NM WQM Mid-flood (09:00-10:30) Mid-ebb	Weekly SI (pm)	

Remarks:

The monitoring schedule may be changed due to unforeseen circumstances such as adverse weather.
 RSP measurement is not required in the EM&A manual and RSP would not presented in EM&A report.
 Water quality monitoring (Mid-Flood &Ebb) on 7/10/2023 was cancelled due to the adverse weather condition (The Tropical Cyclone Signal No.3).



Appendix N

QA/QC Results of Laboratory Analysis



QA/QC Results of Laboratory Analysis of Total Suspended Solids

	QC Sample				
	Analysis	Sample Du	iplicate	Sample	
Sampling Date	% Recovery *	Sample ID	% Error #	Sample ID	% Recovery @
Camping Date	97.6	FC1-S	3.08	FM2-M	84.2
	98.6	FM2-B	6.06	EM1-S	97.9
2023/10/3	100.6	EM1-M	2.74	EC2-B	85.9
	100.1	FC1-S	3.28	FM2-M	91.2
	99.6	FM2-B	4.76	EM1-S	116.4
2023/10/5	97.7	EM1-M	3.08	EC2-B	98.6
	98.2	FC1-S	7.41	FM2-M	97.3
	102.5	FM2-B	6.45	EM1-S	81.9
2023/10/10	103.0	EM1-M	6.90	EC2-B	118.6
	97.4	FC1-S	3.64	FM2-M	116.1
	95.6	FM2-B	5.71	EM1-S	105.3
2023/10/12	102.3	EM1-M	1.83	EC2-B	111.7
	98.5	FC1-S	3.28	FM2-M	93.1
	102.6	FM2-B	1.40	EM1-S	91.8
2023/10/14	102.9	EM1-M	9.52	EC2-B	112.6
	97.6	FC1-S	3.23	FM2-M	88.6
	101.6	FM2-B	1.34	EM1-S	113.2
2023/10/16	102.0	EM1-M	1.32	EC2-B	96.4
	95.6	FC1-S	3.39	FM2-M	111.9
	101.5	FM2-B	1.44	EM1-S	90.7
2023/10/18	103.7	EM1-M	8.22	EC2-B	88.6
	100.3	FC1-S	0.00	FM2-M	90.4
	100.9	FM2-B	0.00	EM1-S	118.1
2023/10/20	101.9	EM1-M	1.74	EC2-B	107.4
	98.4	FC1-S	3.28	FM2-M	110.5
	101.1	FM2-B	1.10	EM1-S	97.7
2023/10/24	100.3	EM1-M	1.42	EC2-B	114.3
	96.9	FC1-S	3.51	FM2-M	93.0
	101.0	FM2-B	3.03	EM1-S	114.9
2023/10/26	102.0	EM1-M	2.70	EC2-B	91.6
	97.6	FC1-S	2.47	FM2-M	85.1
	100.9	FM2-B	8.70	EM1-S	117.1
2023/10/28	101.5	EM1-M	1.48	EC2-B	91.9
	96.5	FC1-S	8.00	FM2-M	96.7
	100.7	FM2-B	7.87	EM1-S	93.5
2023/10/31	104.4	EM1-M	6.56	EC2-B	95.8



Appendix O

Complaint Log



Complaint Log

Log Ref.	Location	Received Date	Details of Complaint	Investigation / Mitigation Action	Status
001	Lung Mun Road near Tuen Mun Area 38 Fill Bank	24 May 2017	One complaint received on 24 May 2017, which was forwarded to ET on 03 June 2017, from public against the rocks and debris deposited on the road surface along Lung Mun Road near Tuen Mun Area 38 Fill Bank. The complainant complained that waste generated caused an environmental nuisance.	 Refer to the ET site investigation on 06 June 2017, the condition of Lung Mun Road near Tuen Mun Area 38 Fill Bank was found satisfactory. Details of Action(s) Taken by the Contactor: Regular water spraying by water lorries is provided for road cleaning at Lung Mun Road; Regular cleaning on Lung Mun Road and the access road at the site exit by road sweeper to remove mud and gravel is arranged four times on each working day; Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving; Site vehicle for transporting materials are covered properly by using clean tarpaulin sheets; Regular cleaning at the site haul road is provided to minimize the fugitive dust emission. 	Closed
002	Lung Mun Road near Tuen Mun Area 38 Fill Bank	16 April 2018	One complaint received on 16 April 2018 from public and forwarded to ET by email at 10:51 on 25 May 2018. The complaint detail was"來往屯門第 38 區填料庫的龍 門路沿路有很多泥頭車出人,泥頭會從車上掉至路面 上,要求部門跟進及回覆。"	 Refer to the ET site investigation on 26 May 2018, the condition of Lung Mun Road near Tuen Mun Area 38 Fill Bank was found satisfactory. Details of Action(s) Taken by the Contactor: Regular cleaning on Lung Mun Road and the access road at the site exit by road sweeper to remove mud and gravel is arranged four times on each working day; Regular water spraying by water lorries is provided for road cleaning at Lung Mun Road; Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving; Site vehicles for transporting materials are covered properly by using clean tarpaulin sheets; Regular cleaning at the site haul road is provided. 	Closed



003	Lung Mun Road near Tuen Mun Area 38 Fill Bank	26 June 2018	One complaint received on 26 June 2018 from public and forwarded to ET by email at 13:58 on 03 July 2018. The complaint detail was" 當天水車於 6 時出動洗街,導 致交通阻塞."	 Refer to the ET site investigation on 07 July 2018, the condition of Lung Mun Road near Tuen Mun Area 38 Fill Bank was found satisfactory. Details of Action(s) Taken by the Contactor: Improve the road washing plan to avoid washing in traffic peak peroid Revised the road washing schedule as soon as possible once there is traffic jam 	Closed
004	Tuen Mun Area 38 Fill Bank	06 October 2021	A complaint was received on 06 October 2021 from public regarding dust nuisance within TM38 Fill Bank and was forwarded to ET by email on 06 October 2021 for investigation.	 Refer to the ET site investigation on 12 October 2021, no defective observation related to dust emission was recorded during the investigation. Details of Action(s) Taken by the Contactor: Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank. Regular cleaning at the site haul road is provided to minimize the dust emission. 	Closed



005	Tuen Mun Area 38 Fill Bank	28 June 2022	A complaint was received on 28 June 2022, which was forwarded to ET by email on 28 June 2022 for investigation, from public against "土木工程署屯門第 38 區填料庫經常發出異味,致現場的空氣及環境被受污 染,土木工程拓展署難辭其咎,環保署亦應就現場大量 大型車輛造成的空氣污染作出跟進。"	 Refer to the ET site investigation on 30 June 2022, no defective observation related to dust emission was recorded during the investigation Details of Action(s) Taken by the Contactor: Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank; Regular cleaning at the site haul road is provided to minimize the dust emission; Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving; 	Closed
006	Tuen Mun Area 38 Fill Bank	05 July 2022	A complaint was received on 05 July 2022, which was forwarded to ET by email on 15 July 2022 for investigation, from an environmental group against "為 何 TM38 區之斜坡不同蓋上帆布" .	 Refer to the ET site investigation on 14 July 2022, no defective observation related to dust emission was recorded during the investigation. Details of Action(s) Taken by the Contactor: Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank. Regular cleaning at the site haul road is provided to minimize the dust emission. 	Closed

東業德勤測詞 ETS-TESTC		
be complainant showed that there		

007	Tuen Mun Area 38 Fill Bank	30 September 2022	A complaint was received on 30 September 2022, which was forwarded to ET by email on 03 October 2022 for investigation, against "In recent days, we found that there was significant dust emission from the fill bank. As you are aware that we need to conduct RSP and TSP monitoring at the site boundary with very tight limits. We worry that these situations might affect our measurement. Please see the videos attached. They are taken on 21 Sept and one on 26 Sept. Grateful if you could investigate the cases and ensure dust is properly controlled.".	The video provided by the complainant showed that there was serious dust emission in 3RS collection area of public fill. Based on this situation, mitigation measures implemented in TM38 Fill Bank were reviewed and enhanced to avoid dust emission. A joint site inspection and meeting was carried out on 06 October 2022 to discuss the dust emission at TM38 Fill Bank. The location of 3RS and discharge point would be inspected in every weekly environmental audit. The status of 3RS location would be recorded to monthly EM&A report. Details of Action(s) Taken by the Contactor: 1. Increasing the frequency of water spraying by water lorries inside the Fill Bank. 2. Setting up water spraying machine in the 3RS area 3. Regular cleaning at the site haul road is provided to minimize the dust emission.	Closed
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Figures



