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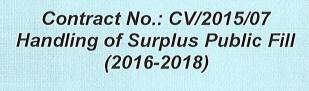
TEST REPORT

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China Harbour – Zhen Hua Joint Venture



TUEN MUN AREA 38 FILL BANK

MONTHLY EM&A REPORT NO.51

(JULY 2021)

Prepared by:

Checked by:

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Environmental Team Leader

Issue Date: 07 September 2021

Report No.: ENA13674

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Our Ref: PL-202109033



23 September 2021 By Email

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

Dear Mr. Lau,

RE: Contract No. CV/2020/08 Handling of Surplus Public Fill (2021-2024) Monthly EM&A Report (No. 51) for July 2021 for the Tuen Mun Area 38 Fill Bank

Reference is made to your submission of the draft Monthly EM&A Report for July 2021 for the Tuen Mun Area 38 Fill Bank received by email on 23 September 2021. We are pleased to inform you that we have no further 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,

Toamp Faulbeary

F. C. Tsang Independent Environmental Checker

cc. CEDD – Mr. T M YEUNG ET Leader – Mr. C L LAU Contract No.: CV/2015/07 Handling of Surplus Public Fill (2016-2018) – Tuen Mun Area 38 Fill Bank ENA13674 Monthly EM&A Report No.51

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東業德勤測試顧問有限公司

EXECUTIVE SUMMARY

This monthly Environmental Monitoring and Audit (EM&A) report No.51 was prepared by Environmental Team (ET) of ETS-Testconsult Ltd (ETL) for the "Contract No. CV/2015/07 Handling of Surplus Public Fill (2016-2018) – 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 July 2021.

Site Activities

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

- 1. Operation of the 2 Public Fill Reception Facilities at TMFB;
- 2. Delivery of public fill to Taishan at TMFB;
- 3. Operation of Crushing plant at TMFB;
- 4. Operation of the Integrated Public Fill Reception at TMFB;
- 5. Personnel Position Tracking and Proximity Detection System of Moving Plant at TMFB;
- 6. Setting up a Digital Works Supervision System (DWSS) for TMFB;
- 7. Carrying out of preliminary sorting of public fill for 3RS project at TMFB;

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: 17 Occasions at 2 designated locations
- Noise, Daytime: 9 Occasions at 2 designated locations
- Marine Water Quality Monitoring: 13 Occasions at 4 designated locations
- Weekly-site inspection: 4 Occasions

Air Monitoring

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 – Zhen Hua Joint Venture (CHZH-JV) appointed Environmental Team (ET) of ETS-Testconsult Limited (ETL) to undertake the Environmental Monitoring and Audit (EM&A) for the "Contract No: CV/2015/07 –Handling of Surplus Public Fill (2016-2018) – 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/D) (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 July 2021.

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	Leo Lam, T M Yeung, May Lau	Engineer's Representative 2762 5555		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 2 Public Fill Reception Facilities at TMFB;
- 2. Delivery of public fill to Taishan at TMFB;
- 3. Operation of Crushing plant at TMFB;
- 4. Operation of the Integrated Public Fill Reception at TMFB;
- 5. Personnel Position Tracking and Proximity Detection System of Moving Plant at TMFB;
- 6. Setting up a Digital Works Supervision System (DWSS) for TMFB;
- 7. Carrying out of preliminary sorting of public fill for 3RS project at TMFB;

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 GMWS2310 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 4.1Air Quality Monitoring Equipment

Equipment	Model and Make
HVS	Greasby GMWS2310
Calibrator	Tisch TE-5025A

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 p	arameters, duratior	, freq	equency of air quality monitoring
Doro	motor	Duration		Fraguanay

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, as HVS, (Greasby GMWS2310) complete with appropriate sampling inlets were employed for both 1-hour 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 TSF	Ρ (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	pring Station Parameter		No. of Depths
	Depth (m)		
Control Stations:	Temperature (°C)		
TM-FC1 (Mid-ebb) and TM-FC2 (Mid-flood)	Dissolved Oxygen	2 daya kwa ak	3 (Surface, mid-
TM-FC2 (Mid-1100d)	(mg/L and % saturation)	3 days/week, 2 tides/day	
Impact Stations:	Turbidity (NTU)	2 liues/uay	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.

Table 5.2Summary of testing procedure

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.

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	01/04/21	30/06/21	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 guality monitoring is detailed in Appendix C2.

				Intoring		
			July 2021			
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2	3
	_				▼	
4	5	6	7	8	9	10
11	12	13	14	15	16	17
11	12	73 ▼	14	15 ▼	10	
18	19	20	21	22	23	24
	•		▼		▼	
25	26	27	28	29	30	31
		•		•		•
Remark:(▼) – Ma	rine water quality mo	nitoring carried out h	, FT	1	1	1

Table 5 5 Time Schedule of Marine Water Quality Monitoring

Remark: $(\mathbf{\nabla}) =$ Marine water quality monitoring carried out by ET

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.

1000 0.0	Cann		eerang pene	a			
		Exceedance	D	0			
Tide	Station	Level	Surface & Middle	Bottom	Turbidity	SS	Total
	TM-FM1	Action	0	0	0	0	0
Mid-Ebb	1 101-1-101 1	Limit	0	0	0	0	0
	TM-FM2	Action	0	0	0	0	0
		Limit	0	0	0	0	0
	TM-FM1 TM-FM2	Action	0	0	0	0	0
Mid-		Limit	0	0	0	0	0
Flood		Action	0	0	0	0	0
		Limit	0	0	0	0	0
т	atal	Action	0	0	0	0	0
Total		Limit	0	0	0	0	0

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

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	Noise Monitoring Ed	quipment
1 0010 0.1		

Equipment	Model
Sound Level Meter	Rion NL-31 / Rion NL-52
Calibrator	Rion NC-73 / Castle GA607

6.3 Monitoring Parameters, Duration and Frequency

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

Table 6.2 Duration, Frequencies and Parameters of Noise Monitoring

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 6.3Action 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 08, 16, 22 and 29 July 2021. Summaries of key findings of weekly ET site inspections in this month are described in Table 7.1.

Date	Key Findings	Action(s) Taken recommended by ET	Action(s) Taken by the Contractor during the site audit	Rectification Status by ET
08 July 2021	No defective work or o	bservation was recorded durir	ng the weekly ET site i	nspection
16 July 2021	Dust emission were observed near wet mud platform. (New item)	Provide water spray to control dust emission properly.		Follow-up
22 July 2021	Dust emission were observed near wet mud platform. (New item)	Provide water spray to control dust emission properly.	Water sprays were provided	Closed
29 July 2021	No defective work or o	bservation was recorded durir	ng the weekly ET site	inspection

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



7.1.2 EPD's Site Inspection

No EPD's site inspection was carried out at TMFB in July 2021..

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/D	25/05/20	31/12/23	Issued
Chemical Waste Producer	5296-421- C4184-01	20/04/17		Spent battery containing heavy metals and spent lubricating oil
Effluent Discharge License	WT0002870 1-2017	25/09/17	30/09/22	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/22- 022	20/07/21	30/09/21	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
Billing Account for Waste Disposal	7027643	22/05/17		

Table 7.2 Summary of environmental licensing and permit status



Notification	415661	12/04/17	
Pursuant to			
Section 3(1) of the			
Air Pollution			
Control			
(Construction			
Dust)			

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 monitoring month.

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

		reninentai eenip		battorio		
Complaints logged		Summor	ns served	Successful Prosecution		
July 2021	Cumulative	July 2021	Cumulative	July 2021	Cumulative	
0	3	0	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.

Table 9.1	Actual amounts of Waste generated in this reporting month

Waste Type	Actual Amount	Disposal Locations
Public Fill ('000m ³)	0	Tuen Mun 38 Fill Bank
C&D Waste ('000kg)	23.38	WENT Landfill
Chemical Waste (kg)/(L)	0(L)	Collected by licensed collector

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.

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; and
- 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:

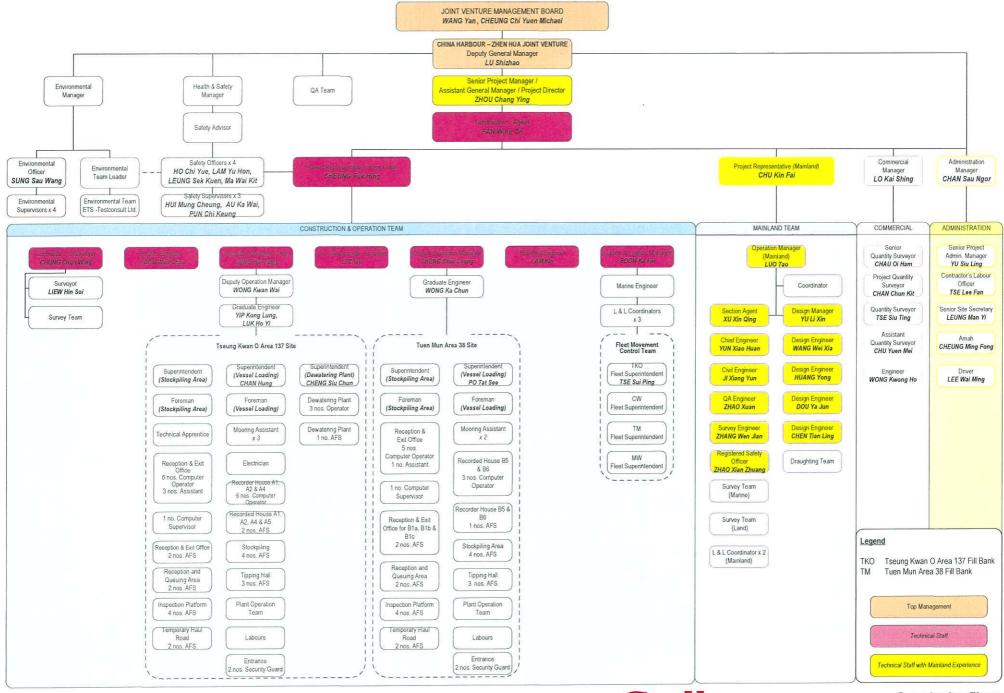
- Dust generation from activities on site, such as vehicular movements along unpaved area and rock crushing activities;
- Noise impact from operating equipment and machinery on site;
- Wastewater and surface runoff from the site discharged into nearby water body;
- Regular checking of the drainage system;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

- END OF REPORT -



Appendix A

Project Organization Chart



Civil Engineering and Development Department Contract No. CV/2015/07 Handling of Surplus Public Fill (2016-2018)



Organization Chart Rev.21

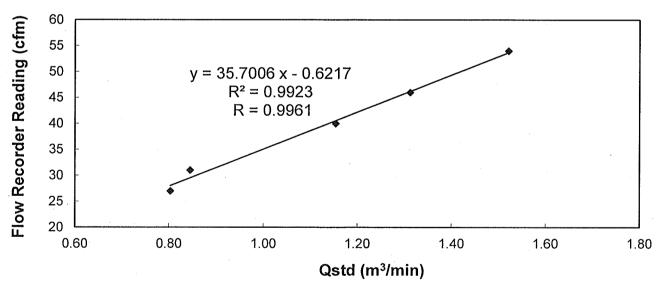


Appendix B1

Calibration Certificates for Impact Air Quality Monitoring Equipments

		頁業德勤測試顧問 [∞] TS-TESTCONSU			TM T E E: eti(8/F Block B, ong Industrial Cen Au Pui Wan Stree Dan, Hong Kong +852 2695 8318 +852 2695 3944 @ets-testconsult.c w.ets-testconsult.c	om
		Calibration Rep	oort				
		of <u>High Volume Air S</u>	ampler				
Manufacturer	:	Graseby GMW Da	ate of Cali	bration	: <u>10 Ju</u>	ne 2021	
Serial No.	:	2484 (ET / EA / 003 / 27) Ca	libration I	Due Date	: <u>09 Au</u>	gust 2021	
Method	:	Five-point calibration by using standard cali Manual	bration kil	t Tisch TE-	5025A refe	er to the Or	perations
Results	•	Flow recorder reading (cfm)	54	46	40	31	27
		Qstd (Actual flow rate, m ³ /min)	1.52	1.31	1.15	0.84	0.80
		Pressure : 762.06 mm Hg	1	Temp. :	303	K	





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

LIAO, Yun Chao (Technician)

- END OF REPORT -

Checked by

LAU, Chi Leung (Environmental Team Leader)



東業德勤測試顧問有限公司 ETS-TESTCONSULT LTD. 8/F Block B, Veristrong Industrial Centre, 34-36 Au Pui Wan Street, Fo Tan, Hong Kong

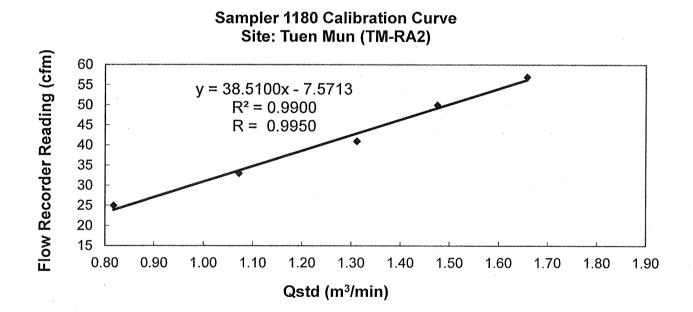
T: +852 2695 8318 F: +852 2695 3944 E: etl@ets-testconsult.com W: www.ets-testconsult.com

Calibration Report

of

High Volume Air Sampler

Manufacturer	:	Graseby GMW	Date of Calib	ration	:	<u>10 Ju</u>	une 2021	
Serial No.	:	1180 (ET/EA/003/04)	Calibration D	ue Date	:	09 A	ugust 2021	
Method	:	Based on Operations Manual for the 5-per manufactured by Tisch TE-5025 A	oint calibratio	on using sta	and	ard ca	alibration kit	•
Results	:	Flow recorder reading (cfm)	57	. 50		41	33	25
		Qstd (Actual flow rate, m ³ /min)	1.66	1.48		1.31	1.07	0.82
		Pressure : 762.06 mm Hg	g	Temp. :		303	К	



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 :

LIAO, Yun Chao (Technician)

Checked by

LAU, Chi Leung

(Environmental Team Leader)

- END OF REPORT -

nvire		ent	al	J			D	ALIBRATION UE DATE: ary 11, 2022
	Ce	rtifa	cate e				tion	
			Calibration					
Cal. Date:	January 11	, 2021	Rootsi	meter S/N:	438320	Ta:	297	°К
Operator:	Jim Tisch					Pa:	750.1	mm Hg
Calibration	Viodel #:	TE-5025A	Calik	prator S/N:	3863			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ]
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4540	3.2	2.00	
	2	3	4	1	1.0210	6.4	4.00	
	3	5	6	1	0.9090	8.0	5.00	
	4	7	8	1	0.8700	8.8	5.50	
	5	9	10	1	0.7190	12.8	8.00	J
		******	<u> </u>	Data Tabula	tion]
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right)}$)(<u>Tstd</u>)		Qa	$\sqrt{\Delta H(Ta/Pa)}$	
	(m3)	(x-axis)	y (y-ax	is)	Va	(x-axis)	(y-axis)	
	0.9860	0.6781	1.40		0.9957	0.6848	0.8899	
	0.9818	0.9616	1.990		0.9915	0.9711	1.2585	
	0.9797	1.0778	2.225		0.9893	1.0884	1.4071	
	0.9786 0.9733	1.1249 1.3538	2.333		0.9883 0.9829	1.1359 1.3671	<u>1.4757</u> 1.7798	
	0.9755	1.5558 m=	2.01		0.9629		1.30351	
	QSTD	b=	-0.009		QA	b=	-0.00577	
		r=	0.999	93		r=	0.99993	
				Calculatio	ns			1
	Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta			∆Vol((Pa-∆F	?)/Pa)	
	Qstd=	Vstd/∆Time			Qa=	Va/∆Time		
	ALTERATION AND AN		For subsequ	ent flow ra	te calculatio	15:		
	Qstd=	1/m((√∆H(Pa (<u>Tstd</u> Pstd Ta	-))-b)	Qa=	1/m ((√ΔH	(Та/Ра))-b)	
		Conditions						
Tstd:	298.15					RECAI	IBRATION	
Pstd:		mm Hg Key			US EPA reco	mmends ar	nual recalibratio	on per 1998
ΔH: calibrato		ter reading (i	n H2O)				egulations Part !	
ΔP: rootsme	ter manom	eter reading	(mm Hg)				Reference Meth	
		perature (°K)			Determinat	ion of Susp	ended Particulat	e Matter in
Pa: actual ba b: intercept	rometric p	ressure (mm	Hg)		the	e Atmosphe	re, 9.2.17, page	30
IN THE CEPT			1					1

sch Environmental, Inc.

15 South Miami Avenue

llage of Cleves, OH 45002

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

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Appendix B2

Impact Air Quality Monitoring Results



Summary of 24-hr TSP Monitoring Results

Monitoring Station : TM-A1

Sta	art	Fin	ish	Elaps	e Time	Sampling	Flow Rate	e (m ³ /min.)	Average	Filter W	leight (g)	0
Date	Time	Date	Time	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	Conc. (µg/m ³)
05/07/21	08:30	06/07/21	08:30	13219.31	13243.31	24.00	1.0258	1.0258	1.0258	2.5319	2.6383	72
11/07/21	08:30	12/07/21	08:30	13246.31	13270.31	24.00	1.0258	1.0258	1.0258	2.8193	2.9212	69
17/07/21	13:00	18/07/21	13:00	13273.31	13297.31	24.00	1.0258	1.0258	1.0258	2.7446	2.8495	71
23/07/21	08:30	24/07/21	08:30	13300.31	13324.31	24.00	1.0258	1.0258	1.0258	2.7784	2.8892	75
29/07/21	11:05	30/07/21	11:05	13327.31	13351.31	24.00	1.0258	1.0258	1.0258	2.7675	2.8724	71

Monitoring Station :

TM-RA2

Sta	art	Fin	ish	Elaps	e Time	Sampling	Flow Rate	(m ³ /min.)	Average	Filter W	/eight (g)	$Cana \left(u \pi (m^3) \right)$
Date	Time	Date	Time	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	Conc. (µg/m ³)
05/07/21	08:30	06/07/21	08:30	28506.53	28530.53	24.00	1.1055	1.1055	1.1055	2.5395	2.6653	79
11/07/21	08:30	12/07/21	08:30	28533.53	28557.53	24.00	1.1314	1.1314	1.1314	2.7386	2.8640	77
17/07/21	13:00	18/07/21	13:00	28560.53	28584.53	24.00	1.1314	1.1314	1.1314	2.7474	2.8745	78
23/07/21	08:30	24/07/21	08:30	28587.53	28611.53	24.00	1.1314	1.1314	1.1314	2.7743	2.9079	82
29/07/21	11:05	30/07/21	11:05	28614.53	28638.53	24.00	1.1055	1.1055	1.1055	2.7719	2.8961	78



Summary of 1-hr TSP Monitoring Results

Monitorin	í	ne	1	-A1 e Time	Sampling	Flow Rate	e (m ³ /min.)	Average	Filter W	eight (g)	
Date	Start	Finish	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	- Conc. (μg/m ³)
03/07/21	08:40	09:40	13216.31	13217.31	1.00	1.0538	1.0538	1.0538	2.5755	2.5864	172
03/07/21	10:01	11:01	13217.31	13218.31	1.00	1.0258	1.0258	1.0258	2.6396	2.6500	169
03/07/21	14:01	15:01	13218.31	13219.31	1.00	1.0258	1.0258	1.0258	2.5471	2.5578	174
06/07/21	13:00	14:00	13243.31	13244.31	1.00	1.0538	1.0538	1.0538	2.5834	2.5948	180
08/07/21	09:40	10:40	13244.31	13245.31	1.00	1.0258	1.0258	1.0258	2.7421	2.7535	185
10/07/21	08:30	09:30	13245.31	13246.31	1.00	1.0258	1.0258	1.0258	2.8664	2.8773	177
13/07/21	13:00	14:00	13270.31	13271.31	1.00	1.0538	1.0538	1.0538	2.7254	2.7363	172
13/07/21	14:16	15:16	13271.31	13272.31	1.00	1.0538	1.0538	1.0538	2.7581	2.7688	169
15/07/21	09:53	10:53	13272.31	13273.31	1.00	1.0258	1.0258	1.0258	2.7378	2.7485	174
20/07/21	13:00	14:00	13297.31	13298.31	1.00	1.0538	1.0538	1.0538	2.7710	2.7814	164
20/07/21	14:32	15:32	13298.31	13299.31	1.00	1.0538	1.0538	1.0538	2.7768	2.7870	161
22/07/21	09:30	10:30	13299.31	13300.31	1.00	1.0258	1.0258	1.0258	2.7742	2.7847	171
24/07/21	08:47	09:47	13324.31	13325.31	1.00	1.0258	1.0258	1.0258	2.7540	2.7644	169
24/07/21	10:00	11:00	13325.31	13326.31	1.00	1.0538	1.0538	1.0538	2.7426	2.7531	166
27/07/21	13:00	14:00	13326.31	13327.31	1.00	1.0538	1.0538	1.0538	2.7354	2.7465	176
31/07/21	09:43	10:43	13351.31	13352.31	1.00	1.0258	1.0258	1.0258	2.7592	2.7689	158
31/07/21	13:30	14:30	13352.31	13353.31	1.00	1.0538	1.0538	1.0538	2.7820	2.7929	172

Summary of 1-hr TSP Monitoring Results



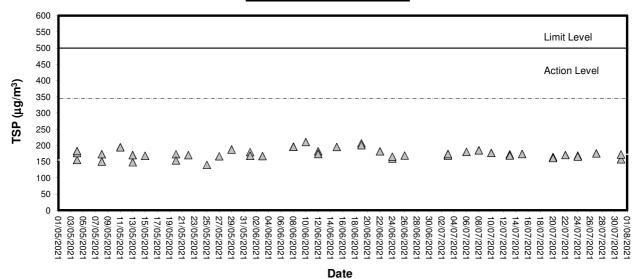
Monitoring	<u></u>	:	1	RA2							1
Date	Tir	ne	Elapse	e Time	Sampling	Flow Rate	e (m ³ /min.)	Average	Filter W	eight (g)	Conc. (µg/m ³
Duio	Start	Finish	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	ουπο. (μg/π
03/07/21	08:45	09:45	28503.53	28504.53	1.00	1.1055	1.1055	1.1055	2.5783	2.5906	185
03/07/21	10:15	11:15	28504.53	28505.53	1.00	1.1314	1.1314	1.1314	2.4928	2.5051	181
03/07/21	13:00	14:00	28505.53	28506.53	1.00	1.1314	1.1314	1.1314	2.5168	2.5293	184
06/07/21	13:00	14:00	28530.53	28531.53	1.00	1.1314	1.1314	1.1314	2.5929	2.6057	189
08/07/21	09:50	10:50	28531.53	28532.53	1.00	1.1055	1.1055	1.1055	2.7260	2.7387	191
10/07/21	08:35	09:35	28532.53	28533.53	1.00	1.1314	1.1314	1.1314	2.7342	2.7467	184
13/07/21	13:00	14:00	28557.53	28558.53	1.00	1.1055	1.1055	1.1055	2.7411	2.7532	182
13/07/21	14:22	15:22	28558.53	28559.53	1.00	1.1055	1.1055	1.1055	2.7466	2.7584	178
15/07/21	09:58	10:58	28559.53	28290.53	1.00	1.1055	1.1055	1.1055	2.7392	2.7519	191
20/07/21	13:00	14:00	28584.53	28585.53	1.00	1.1055	1.1055	1.1055	2.7675	2.7792	176
20/07/21	14:39	15:39	28585.53	28586.53	1.00	1.1055	1.1055	1.1055	2.7715	2.7830	173
22/07/21	09:15	10:15	28586.53	28587.53	1.00	1.1314	1.1314	1.1314	2.7808	2.7936	189
24/07/21	08:54	09:54	28611.53	28612.53	1.00	1.1314	1.1314	1.1314	2.7556	2.7677	178
24/07/21	09:54	10:54	28612.53	28613.53	1.00	1.1055	1.1055	1.1055	2.7438	2.7554	175
27/07/21	13:00	14:00	28613.53	28614.53	1.00	1.1314	1.1314	1.1314	2.7455	2.7585	192
31/07/21	09:28	10:28	28638.53	28639.53	1.00	1.1055	1.1055	1.1055	2.7569	2.7682	170
31/07/21	13:37	14:37	28639.53	28640.53	1.00	1.1314	1.1314	1.1314	2.7577	2.7705	189



Appendix B3

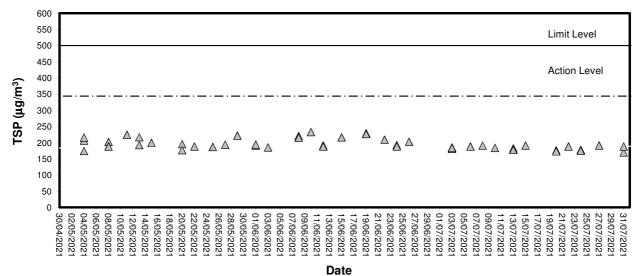
Graphical Plots of Impact Air Quality Monitoring Data



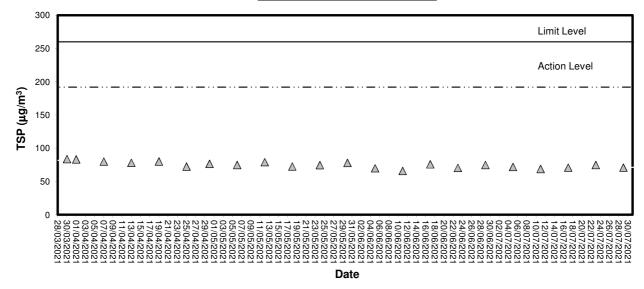


1-hour TSP level at TM-A1

1-hour TSP level at TM-RA2

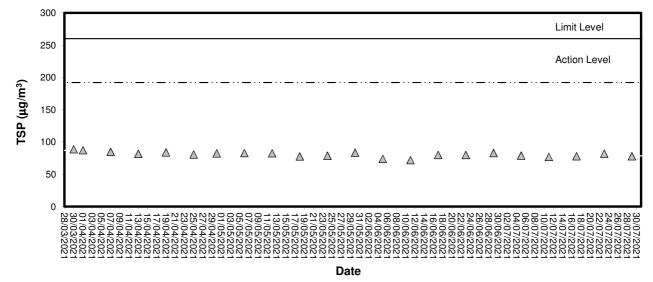






24-hour TSP level at TM-A1







Appendix C1

Calibration Certificates for Impact Marine Water Quality Monitoring Equipments



<u>**Performance Check / Calibration of Multiparameter Water Quality Meter</u>**</u>

Equipment Ref. No. :	:	ET/EW/008/010	Manufacturer	:	YSI
Model No.		Pro DSS	Serial No.	:	18E105421
Date of Calibration :		2/7/2021	Calibration Due Date	:	1/10/2021

<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)
16.2	16.3	+0.1
25.0	25.3	+0.3
29.3	29.4	+0.1

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 (%)
146.9	149.5	+1.8
1412	1435	+1.6
12890	13156	+2.1
58760	59862	+1.9

Tolerance Limit (μ S/cm): ± 10.0%

4. Salinity

(Method Reference: APHA 19ed 2520 B)

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
10.0	9.60	-4.0
20.0	19.30	-3.5
30.0	28.90	-3.7

Tolerance Limit (g/L): $\pm 10.0\%$



Performance Check / Calibration of Multiparameter Water Quality Meter				
Equipment Ref. No. : ET/EW/008/010	Manufacturer	: YSI		
Model No. : Pro DSS	Serial No.	: 18E105421		
Date of Calibration : 2/7/2021				
		Calibration Due Date : <u>1/10/2021</u>		
5. Dissolved Oxygen (Method Reference: APHA 19ed 4500-O C				
Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)		
1.76	1.80	+0.04		
4.21 6.49	4.26	+0.05		
$\frac{0.49}{\text{Tolerance Limit (mg/L): } \pm 0.20}$	6.52	+0.03		
6. Turbidity (Method Reference: APHA 19ed 2130 B) Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)		
10	9.61	-3.9		
40	38.47	-3.8		
100	97.28	-2.7		
400 Tolerance Limit (NTU): ± 10.0%	382.99	-4.2		
	$\mathbf{y}^{\#}$ with the specified requirements and is dee	emed acceptable [#] / unacceptable.[#] for use.		
[#] Delete as appropriate				
Calibrated by :	Approve	ed by :		



Appendix C2

Impact Marine Water Quality Monitoring Results



Monitoring Station :	TM-FC1
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Date	Sampling	Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		d Oxygen tion (%)	Τι	urbidity (NT	U)	Suspe	nded Solids	s (mg/L)
Dale	Duration	Weather Condition	(r	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	28.2	18.1 18.1	18.1	6.68 6.65	6.67		94.7 94.3	94.5	2.09 2.07	2.08		4.5 4.3	4.4	
2/7/21	14:36:01	30/Fine	Middle	11.3	27.0	27.0 27.0	27.0	5.70 5.74	5.72	6.19	83.2 83.7	83.5	1.79 1.75	1.77	2.87	5.6 5.2	- 5.4	5.9
			Bottom	21.6	25.7	29.9 29.9	29.9	4.94 4.91	4.93	4.93	71.7	71.5	4.74	4.76		7.8 7.9	7.9	
			Surface	1.0	28.0	20.7	20.7	7.05	7.03		101.1 100.5	100.8	2.31	2.30		10.6	10.6	
6/7/21	16:36:14	30/Fine	Middle	11.3	26.8	28.6 28.6	28.6	6.26 6.24	6.25	6.64	91.9 91.6	91.8	4.31	4.33	4.48	11.9	12.1	11.2
			Bottom	21.6	25.4	30.2 30.2	30.2	5.88 5.85	5.87	5.87	85.1 84.5	84.8	6.79 6.82	6.81		11.0	- 11.0	
			Surface	1.0	28.5	16.6 16.6	16.6	8.38 8.35	8.37		118.5 118.0	118.3	3.12 3.16	3.14		2.1 2.3	2.2	
8/7/21	17:31:35	30/Fine	Middle	11.3	27.2	28.1 28.1	28.1	7.47 7.44	7.46	7.91	110.1 109.5	109.8	6.07 6.09	6.08	6.15	3.9 3.4	3.7	2.7
			Bottom	21.6	25.9	30.2 30.3	30.2	6.72 6.70	6.71	6.71	98.1 97.6	97.9	9.23 9.25	9.24		2.3 2.3	2.3	
			Surface	1.0	28.7	17.0 17.0	17.0	7.89 7.87	7.88		112.1 112.0	112.1	3.71 3.74	3.73		9.8 9.9	9.9	
10/7/21	18:51:10	30/Fine	Middle	11.3	26.5	26.9 26.9	26.9	6.69 6.66	6.68	7.28	96.8 96.4	96.6	6.57 6.55	6.56	6.67	4.9 5.4	5.2	7.1
			Bottom	21.6	25.8	28.7 28.7	28.7	5.73 5.71	5.72	5.72	82.7 82.3	82.5	9.71 9.75	9.73		6.3 6.1	6.2	
			Surface	1.0	28.3	16.9 16.9	16.9	8.27 8.29	8.28	7.68	116.7 117.0	116.9	3.99 3.96	3.98		6.5 6.7	6.6	
13/7/2021	9:47:22	30/Fine	Middle	11.0	26.3	24.8 24.8	24.8	7.08 7.06	7.07	7.00	100.9 100.4	100.7	6.24 6.28	6.26	6.67	10.9 10.7	10.8	10.1
			Bottom	21.0	25.3	25.4 25.4	25.4	6.54 6.51	6.53	6.53	91.9 91.3	91.6	9.76 9.80	9.78		12.9 12.6	12.8	
			Surface	1.0	29.1	22.8 22.8	22.8	7.43 7.40	7.42	7.08	109.7 109.1	109.4	1.13 1.10	1.12		18.9 18.7	18.8	
15/7/2021	10:44:42	30/Fine	Middle	11.1	28.4	27.8 27.8	27.8	6.76 6.72	6.74	7.00	101.5 100.9	101.2	5.18 5.15	5.17	4.96	18.5 19.3	18.9	18.5
			Bottom	21.3	26.6	30.6 30.6	30.6	6.28 6.32	6.30	6.30	92.9 93.4	93.2	8.58 8.62	8.60		17.6 17.7	17.7	
			Surface	1.0	29.3	20.5 20.5	20.5	7.26 7.24	7.25	7.01	106.2 106.0	106.1	3.58 3.61	3.60		11.8 12.0	- 11.9	
17/7/21	10:54:20	30/Fine	Middle	11.3	27.4	25.9 25.9	25.9	6.78 6.75	6.77	7.01	99.0 98.6	98.8	4.90 4.94	4.92	5.54	13.2 13.5	13.4	14.8
			Bottom	21.5	26.3	28.8 28.8	28.8	6.25 6.22	6.24	6.24	91.1 90.5	90.8	8.12 8.10	8.11		19.0 19.1	19.1	



Monitoring Station :	TM-FC1
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Date	Sampling	Ambient Temp (°C) /	Monitorii	ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		d Oxygen tion (%)	Tu	urbidity (NT	U)	Suspe	nded Solids	s (mg/L)
Dale	Duration	Weather Condition	(r	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	28.7	23.9 24.0	23.9	7.27 7.25	7.26		107.4 107.1	107.3	2.14 2.18	2.16		15.6 16.1	15.9	
19/7/21	15:29:50	30/Fine	Middle	11.3	27.5	27.7 27.7	27.7	6.47 6.44	6.46	6.86	95.7 95.2	95.5	6.85 6.88	6.87	6.13	16.1 15.7	15.9	17.3
			Bottom	21.6	26.5	29.6 29.6	29.6	6.09 6.13	6.11	6.11	89.5 90.2	89.9	9.35 9.37	9.36	+	20.1	20.2	
			Surface	1.0	27.4	22.4 22.4	22.4	6.89 6.86	6.88		98.7 98.3	98.5	1.72 1.75	1.74		16.9 16.5	- 16.7	
21/7/21	16:35:28	30/Fine	Middle	11.3	26.5	26.3 26.3	26.3	6.52 6.54	6.53	6.70	98.3 94.0 94.3	94.2	6.55 6.59	6.57	5.83	15.5 15.7	15.6	16.2
			Bottom	21.6	25.9	28.9 28.9	28.9	6.13 6.17	6.15	6.15	94.3 88.8 89.4	89.1	9.19 9.17	9.18	•	16.5 16.2	16.4	
			Surface	1.0	27.8	23.4	23.4	6.67	6.66		96.7	96.5	5.41	5.43		2.9	2.8	
23/7/21	17:36:41	30/Fine	Middle	11.2	26.4	23.4 24.9	24.9	6.64 6.15	6.17	6.41	96.3 87.8	88.2	5.45 7.18 7.15	7.17	7.08	2.6 8.1 7.9	8.0	5.1
			Bottom	21.5	25.2	24.9 26.0	26.0	6.19 5.74	5.73	5.73	88.6 80.8	80.7	7.15 8.66 8.63	8.65	•	4.3	4.5	
			Surface	1.0	27.6	26.0 25.3	25.3	5.72 7.02	7.03		80.5 102.5	102.7	4.49	4.51		4.6 12.1	12.3	
27/7/21	10:40:38	30/Fine	Middle	11.2	26.3	25.3 27.8	27.8	7.04 6.55	6.57	6.80	102.8 94.9	95.1	4.52 6.49 6.47	6.48	6.20	12.5 9.5	9.6	12.3
			Bottom	21.4	25.1	27.8 29.5 29.5	29.5	6.58 6.15 6.11	6.13	6.13	95.2 88.2 87.8	88.0	6.47 7.64 7.60	7.62	•	9.6 14.9 14.9	14.9	-
			Surface	1.0	27.3	29.5 25.5 25.5	25.5	7.21 7.23	7.22		104.9 105.2	105.1	2.92 2.95	2.94		7.7	- 7.4	
29/7/21	10:14:34	30/Fine	Middle	11.3	25.8	23.3 27.7 27.7	27.7	6.67 6.63	6.65	6.94	95.8 95.4	95.6	4.65 4.61	4.63	4.77	4.3	4.5	7.8
			Bottom	21.6	25.1	29.4 29.4	29.4	6.35 6.38	6.37	6.37	91.0 91.2	91.1	6.74 6.72	6.73		4.7 11.2 11.5	- 11.4	
			Surface	1.0	28.2	29.4 28.3 28.3	28.3	6.38 7.51 7.47	7.49		91.2 112.7 112.3	112.5	6.72 2.52 2.49	2.51		4.5	- 4.5	
31/7/21	11:35:37	30/Fine	Middle	11.3	27.0	28.3 30.7 30.7	30.7	6.42	6.43	6.96	95.7	96.0	2.49 3.51 3.55	3.53	3.65	4.5 6.2 5.8	6.0	5.8
			Bottom	21.7	26.1	30.7 31.6 31.6	31.6	6.44 6.16 6.19	6.18	6.18	96.2 90.9 91.2	91.1	4.89 4.91	4.90		5.8 7.0 6.7	6.9	



Monitoring Sta	ation :	TM-FM1
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Date	Sampling	Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		d Oxygen tion (%)	Τι	urbidity (NT	U)	Suspe	nded Solids	s (mg/L)
Dale	Duration	Weather	(r	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	28.4	19.2 19.3	19.2	6.71 6.73	6.72		96.1 96.2	96.2	1.91 1.95	1.93		2.3 2.7	2.5	
2/7/21	14:11:30	30/Fine	Middle	8.9	27.1	28.6 28.6	28.6	5.85 5.81	5.83	6.28	86.3 85.7	86.0	1.84 1.87	1.86	3.05	8.7 8.1	8.4	6.0
			Bottom	16.8	25.9	29.6 29.6	29.6	5.13 4.95	5.04	5.04	58.9 67.3	63.1	5.34	5.36		6.9 7.2	7.1	
			Surface	1.0	28.2	19.6 19.7	19.6	7.27	7.26		104.0 103.7	103.9	2.36 2.40	2.38		13.0 13.5	13.3	
6/7/21	16:10:26	30/Fine	Middle	8.9	27.1	27.2	27.2	6.59	6.57	6.91	95.5	95.6	3.43	3.44	3.51	4.1	4.1	10.8
			Bottom	16.7	25.6	27.2 29.8	29.8	6.55 6.11	5.53	5.53	95.7 58.9	63.1	3.45 4.68	4.70		4.1	15.0	
			Surface	1.0	28.4	29.8 16.8	16.8	4.95 8.23	8.22		67.3 116.2	116.0	4.71 3.11	3.12		15.3 4.2 4.5	4.4	
8/7/21	17:09:09	30/Fine	Middle	8.8	27.1	16.8 29.5 29.5	29.5	8.20 7.15 7.12	7.14	7.68	115.8 106.0 105.6	105.8	3.13 5.85 5.89	5.87	5.54	4.5 3.4 3.2	3.3	4.0
			Bottom	16.6	26.0	29.5 30.1 30.1	30.1	6.80 4.95	5.88	5.88	58.9 67.3	63.1	7.61 7.64	7.63		4.2	4.3	
			Surface	1.0	28.5	16.6 16.6	16.6	4.95 8.29 8.26	8.28		67.3 1117.1 116.9	617.0	7.64 3.56 3.58	3.57		4.3 3.8 3.2	3.5	
10/7/21	18:33:11	30/Fine	Middle	8.8	26.3	25.2 25.2	25.2	7.64 7.61	7.63	7.95	109.1 108.7	108.9	5.72 5.76	5.74	5.69	5.4 6.1	5.8	5.9
			Bottom	16.7	25.6	23.2 27.3 27.3	27.3	6.85 4.95	5.90	5.90	58.9 67.3	63.1	7.77	7.76		8.3 8.4	8.4	
			Surface	1.0	28.4	17.1	17.1	8.14 8.19	8.17		115.2 116.1	115.7	4.15	4.13		10.0 9.6	9.8	
13/7/2021	9:33:54	30/Fine	Middle	8.9	26.4	24.7	24.7	7.26 7.22	7.24	7.70	103.6	103.3	5.45	5.44	5.70	10.8 10.5	10.7	11.0
			Bottom	16.7	25.5	26.8 26.8	26.8	6.45 4.95	5.70	5.70	58.9 67.3	63.1	7.51 7.54	7.53		12.9	12.6	
			Surface	1.0	28.9	21.1 21.1	21.1	7.21	7.23		105.2 105.7	105.5	1.29	1.30		8.4	8.3	
15/7/2021	10:20:01	30/Fine	Middle	9.1	27.8	24.5 24.5	24.5	6.51 6.49	6.50	6.87	95.0 94.6	94.8	2.44	2.46	3.86	8.6 8.2	8.4	8.2
			Bottom	17.2	26.4	27.3 27.3	27.3	6.13 4.95	5.54	5.54	58.9 67.3	63.1	7.82	7.84		8.2 7.8	8.0	
			Surface	1.0	29.4	19.5 19.5	19.5	7.11	7.13		103.7 104.3	104.0	4.30	4.31		9.0 9.4	9.2	
17/7/21	10:34:02	30/Fine	Middle	8.9	27.6	26.5 26.6	26.5	6.37 6.34	6.36	6.74	93.7 93.3	93.5	5.81 5.85	5.83	5.51	15.8 15.6	15.7	13.2
			Bottom	16.8	26.4	28.5 28.5	28.5	6.09 4.95	5.52	5.52	58.9 67.3	63.1	6.39 6.41	6.40		15.0 14.3	14.7	



Monitoring Station :	TM-FM1
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Date	Sampling	Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		d Oxygen tion (%)	Τι	urbidity (NT	U)	Susper	nded Solids	s (mg/L)
Dale	Duration	Weather Condition	(r	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	28.6	24.7 24.7	24.7	7.00 7.03	7.02	0.70	103.7 104.1	103.9	1.75 1.73	1.74		11.7 11.1	11.4	
19/7/21	15:06:24	30/Fine	Middle	8.9	27.4	29.5 29.6	29.5	6.40 6.37	6.39	6.70	95.4 95.0	95.2	5.35 5.31	5.33	4.72	10.6 10.2	10.4	10.5
			Bottom	16.9	26.5	31.6 31.6	31.6	6.05 4.95	5.50	5.50	58.9 67.3	63.1	7.10	7.09		9.4 9.8	9.6	
			Surface	1.0	27.5	22.5 22.5	22.5	6.92 6.96	6.94		99.4 99.9	99.7	2.24	2.26		15.1 14.7	14.9	
21/7/21	16:12:42	30/Fine	Middle	8.8	26.6	25.8	25.8	6.42	6.44	6.69	92.5	92.7	3.83	3.87	4.30	16.0	15.9	15.7
			Bottom	16.7	25.8	25.8 29.9	29.9	6.45 6.07	5.51	5.51	92.9 58.9	63.1	3.90 6.76	6.77		15.8 16.0	16.2	
			Surface	1.0	27.6	29.9 23.9	23.9	4.95 6.94	6.93		67.3 100.6	100.5	6.78 3.66	3.68		16.3 8.0	8.3	
23/7/21	17:09:48	30/Fine	Middle	8.8	26.3	23.9 25.8	25.8	6.91 6.52	6.50	6.71	100.3 93.4	93.2	3.70 5.03	5.02	5.01	8.6 3.0	2.7	5.1
20/7/21	11.00.40	00/1110	Bottom	16.5	25.3	25.8 27.8	27.8	6.48 6.16	5.56	5.56	93.0 58.9	63.1	5.01 6.30	6.32	0.01	2.4 4.3	4.2	0.1
			Bollom	16.5	20.0	27.8 25.3	27.0	4.95 6.87	5.56	5.56	67.3 100.6	03.1	6.33 3.43	0.32		4.0 12.4	4.2	
			Surface	1.0	27.7	25.3	25.3	6.83	6.85	6.62	100.0	100.3	3.46	3.45		12.1	12.3	
27/7/21	10:15:38	30/Fine	Middle	8.9	26.4	26.3 26.3	26.3	6.39 6.37	6.38		92.0 91.7	91.9	4.03 4.05	4.04	4.30	10.8 10.6	10.7	11.5
			Bottom	16.8	25.3	27.4 27.4	27.4	6.01 4.95	5.48	5.48	58.9 67.3	63.1	5.39 5.43	5.41		11.9 11.4	11.7	
			Surface	1.0	27.5	25.8 25.8	25.8	6.85 6.87	6.86	0.05	100.2 100.5	100.4	2.59 2.57	2.58		16.6 16.8	16.7	
29/7/21	9:56:17	30/Fine	Middle	8.8	26.0	27.0 27.0	27.0	6.45 6.41	6.43	6.65	92.6 91.8	92.2	3.15 3.19	3.17	3.60	10.5 11.3	10.9	12.8
			Bottom	16.7	25.1	28.4 28.4	28.4	6.18 4.95	5.57	5.57	58.9 67.3	63.1	5.03 5.06	5.05		11.1 10.4	10.8	
			Surface	1.0	28.4	27.7	27.7	7.58 7.54	7.56		113.8 113.0	113.4	2.41 2.44	2.43		5.2 5.6	5.4	
31/7/21	11:10:09	30/Fine	Middle	8.8	27.3	29.9	29.9	6.60	6.59	7.07	98.4	98.2	3.27	3.28	3.19	7.1 7.5	7.3	8.0
			Bottom	16.5	26.2	29.9 30.6	30.6	6.57 6.23	5.59	5.59	98.0 58.9	63.1	3.29 3.87	3.85		11.3	11.3	
						30.6		4.95			67.3		3.83			11.2		



Monitoring	Station :	TM-FM2
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Date	Sampling	Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		d Oxygen tion (%)	Τι	urbidity (NT	U)	Suspe	nded Solids	s (mg/L)
Dale	Duration	Weather Condition	(r	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	28.4	19.0 19.0	19.0	6.79 6.81	6.80		97.1 97.4	97.3	1.82 1.87	1.85		11.8 12.2	12.0	
02/07/21	13:51:25	30/Fine	Middle	8.9	27.0	28.8 28.9	28.8	5.77 5.79	5.78	6.29	85.1 85.4	85.3	1.99 1.95	1.97	2.29	12.1 12.2	12.2	10.8
			Bottom	16.8	26.0	30.0	30.0	4.93	4.92	4.92	75.3	75.0	3.04	3.05		8.3	8.3	
			Surface	1.0	28.2	30.0 19.9	19.9	4.91 7.10	7.12		74.7 101.7	101.9	3.06 2.42	2.41		8.3 10.3	10.1	
06/07/21	15:51:01	30/Fine	Middle	9.0	27.0	19.9 28.7	28.7	7.13 6.40	6.39	6.75	102.1 94.3	94.0	2.39 3.55	3.53	3.46	9.8 10.0	9.8	9.3
			Bottom	17.0	25.6	28.7 29.8	29.8	6.37 4.93	4.92	4.92	93.7 75.3	75.0	3.51 4.48	4.45		9.5 7.9	8.1	
						29.8 16.9	16.9	4.91 8.10	8.12	4.52	74.7 114.5		4.42 3.07			8.3 3.1		
			Surface	1.0	28.4	16.9 29.4		8.13 7.28	-	7.69	114.7 107.7	114.6	3.04 4.94	3.06		3.0 2.6	3.1	
08/07/21	16:49:53	30/Fine	Middle	9.0	27.0	29.4 30.2	29.4	7.26 4.93	7.27		107.4 75.3	107.6	4.97 7.29	4.96	5.09	2.3 2.7	2.5	2.8
			Bottom	17.0	25.7	30.2 16.9	30.2	4.91	4.92	4.92	74.7	75.0	7.25	7.27		2.9 9.0	2.8	
			Surface	1.0	28.5	16.9	16.9	8.04	8.05	7.79	113.8	114.0	3.44	3.46		9.5	9.3	-
10/07/21	18:18:09	30/Fine	Middle	9.0	26.4	26.8 26.8	26.8	7.52 7.55	7.54		108.6 108.8	108.7	5.02 5.06	5.04	5.08	7.6 7.2	7.4	8.7
			Bottom	17.0	25.6	28.6 28.6	28.6	4.93 4.91	4.92	4.92	75.3 74.7	75.0	6.73 6.75	6.74		9.5 9.1	9.3	
			Surface	1.0	28.5	18.4 18.4	18.4	8.03 8.05	8.04	7.51	114.6 114.9	114.8	4.30 4.34	4.32		11.3 11.5	11.4	
13/7/2021	9:06:35	30/Fine	Middle	9.0	26.3	23.3 23.3	23.3	6.99 6.95	6.97	7.51	98.8 98.1	98.5	5.92 5.89	5.91	6.11	7.9 7.6	7.8	7.9
			Bottom	17.0	25.3	25.9 25.9	25.9	4.93 4.91	4.92	4.92	75.3 74.7	75.0	8.10 8.12	8.11		4.6 4.7	4.7	
			Surface	1.0	29.0	21.5 21.5	21.5	7.16 7.19	7.18		104.9 105.1	105.0	1.28 1.25	1.27		11.0 10.8	10.9	
15/7/2021	9:59:43	30/Fine	Middle	8.9	27.9	25.2 25.2	25.2	6.59 6.57	6.58	6.88	96.7 96.4	96.6	2.93 2.89	2.91	4.08	5.8 5.7	5.8	7.4
			Bottom	16.9	26.5	28.3 28.3	28.3	4.93 4.91	4.92	4.92	75.3	75.0	8.07 8.03	8.05		5.8 5.3	5.6	
			Surface	1.0	29.2	20.0 20.0	20.0	6.98 6.96	6.97		101.7 101.4	101.6	3.33 3.37	3.35		10.9 11.3	11.1	
17/07/21	10:18:08	30/Fine	Middle	8.9	27.7	25.2	25.2	6.20	6.22	6.59	90.7	90.9	5.29	5.28	5.47	6.1	6.0	11.3
			Bottom	16.9	26.5	25.2 27.8	27.8	6.23 4.93	4.92	4.92	91.1 75.3	75.0	5.27 7.76	7.78		5.8 17.1	16.9	
						27.8	L	4.91			74.7	L	7.79			16.7		



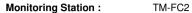
Monitoring Station :	TM-FM2
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Date	Sampling	Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		d Oxygen tion (%)	Tu	urbidity (NT	U)	Suspe	nded Solids	s (mg/L)
Dale	Duration	Weather Condition	1)	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	28.7	23.2 23.2	23.2	7.11 7.14	7.13	0.00	104.6 104.9	104.8	1.63 1.66	1.65		11.9 11.8	11.9	
19/07/21	14:50:34	30/Fine	Middle	9.0	27.4	28.7 28.7	28.7	6.56 6.52	6.54	6.83	97.4 96.9	97.2	4.96 4.94	4.95	4.28	8.7 8.7	8.7	11.6
			Bottom	17.0	26.6	31.0 31.0	31.0	4.93 4.91	4.92	4.92	75.3 74.7	75.0	6.25 6.21	6.23	İ	14.0 14.2	14.1	
			Surface	1.0	27.4	22.4 22.4	22.4	7.13	7.15		102.2	102.5	1.97 1.94	1.96		16.3 16.0	16.2	
21/07/21	15:53:20	30/Fine	Middle	9.0	26.5	24.8 24.8	24.8	6.66 6.69	6.68	6.91	95.2 95.7	95.5	2.86	2.85	3.32	14.3 14.3	14.3	12.9
			Bottom	17.0	25.6	24.8 28.3 28.3	28.3	4.93 4.91	4.92	4.92	95.7 75.3 74.7	75.0	5.13 5.17	5.15		8.3 8.0	8.2	
			Surface	1.0	27.7	24.3 24.3	24.3	6.78 6.76	6.77		98.7 98.4	98.6	3.92 3.90	3.91		6.8 7.2	7.0	
23/07/21	16:51:24	30/Fine	Middle	8.9	26.5	26.0 26.0	26.0	6.34 6.38	6.36	6.57	91.3 91.7	91.5	4.96 4.99	4.98	4.80	7.2 7.4 7.2	7.3	6.8
			Bottom	16.9	25.3	27.6 27.6	27.6	4.93 4.91	4.92	4.92	75.3	75.0	5.50 5.54	5.52		6.0 6.4	6.2	
			Surface	1.0	27.7	25.0 25.1	25.0	7.13 7.10	7.12		104.2 103.6	103.9	3.27 3.25	3.26		8.1 8.3	8.2	
27/07/21	9:53:59	30/Fine	Middle	9.0	26.4	26.2 26.2	26.2	6.69 6.65	6.67	6.89	96.2 95.5	95.9	3.96 4.00	3.98	4.14	10.0 10.6	10.3	11.4
			Bottom	16.9	25.4	27.9 27.9	27.9	4.93 4.91	4.92	4.92	95.3 75.3 74.7	75.0	4.00 5.18 5.15	5.17		15.8 15.8	15.8	
			Surface	1.0	27.5	25.6 25.7	25.6	7.01	7.03		102.4	102.6	2.71	2.73		11.5 11.8	11.7	
29/07/21	9:38:42	30/Fine	Middle	8.9	26.0	27.9 27.9	27.9	6.55 6.52	6.54	6.78	94.5 94.2	94.4	2.95 2.98	2.97	3.51	11.9 11.3	11.6	12.2
			Bottom	16.8	25.4	29.3 29.3	29.3	4.93 4.91	4.92	4.92	75.3 74.7	75.0	4.81 4.83	4.82		13.2 13.3	13.3	
			Surface	1.0	28.3	29.3 28.0 28.0	28.0	7.69 7.67	7.68		115.4 115.1	115.3	4.83 2.53 2.55	2.54		7.8	8.0	
31/07/21	10:52:44	30/Fine	Middle	8.9	27.2	30.0	30.0	6.89	6.90	7.29	102.6	102.9	2.55 3.01 3.05	3.03	3.08	3.8	3.8	5.5
			Bottom	16.9	26.3	30.0 30.8 30.8	30.8	6.91 4.93 4.91	4.92	4.92	103.1 75.3 74.7	75.0	3.05 3.66 3.69	3.68		3.8 4.4 4.8	4.6	



Monitoring Stati	on :	TM-FC2

Date	Sampling	Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		d Oxygen tion (%)	Т	urbidity (NT	U)	Suspe	nded Solids	s (mg/L)
Dale	Duration	Weather Condition	(1	m)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	28.5	20.8 20.8	20.8	6.84 6.86	6.85		98.9 99.1	99.0	1.88 1.92	1.90		11.0 12.0	11.5	
02/07/21	13:30:28	30/Fine	Middle	8.7	27.1	29.6 29.6	29.6	5.88 5.84	5.86	6.36	87.3 86.8	87.1	2.08 2.12	2.10	2.10	6.8 7.1	7.0	9.9
			Bottom	16.4	26.1	31.5	31.5	5.25	5.23	5.23	77.4	77.1	2.27	2.30		10.5	11.2	
			Surface	1.0	28.1	31.5 20.6	20.6	5.21 7.41	7.43		76.8 106.3	106.7	2.32 2.40	2.43		11.8 9.3	9.2	
06/07/21	15:31:03	30/Fine	Middle	8.8	26.9	20.6 29.2	29.2	7.45 6.74	6.76	7.09	107.1 99.4	99.7	2.45 2.87	2.84	2.97	9.1 12.7	12.9	10.5
00/07/21	13.31.03	50/1 me				29.2 30.5		6.77 6.22			99.9 90.6		2.81 3.66		2.57	13.1 9.2		10.5
			Bottom	16.5	25.7	30.5 17.1	30.5	6.24 8.01	6.23	6.23	90.9 113.0	90.8	3.64 3.16	3.65		9.3 2.2	9.3	
			Surface	1.0	28.2	17.2	17.1	7.97	7.99	7.50	112.4	112.7	3.19	3.18		2.0	2.1	-
08/07/21	16:31:20	30/Fine	Middle	8.7	26.8	27.6 27.6	27.6	7.00 7.03	7.02		102.2 102.6	102.4	2.96 2.92	2.94	4.25	2.4 2.3	2.4	2.2
			Bottom	16.4	25.6	29.9 29.9	29.9	6.66 6.63	6.65	6.65	96.5 95.9	96.2	6.61 6.64	6.63		2.2 2.0	2.1	
			Surface	1.0	28.6	18.3 18.3	18.3	8.13 8.17	8.15		116.2 116.8	116.5	3.72 3.76	3.74		9.2 9.1	9.2	
10/07/21	18:01:06	30/Fine	Middle	8.8	26.5	26.5 26.5	26.5	7.63 7.66	7.65	7.90	110.1 110.4	110.3	5.97 5.99	5.98	5.36	8.4 8.2	8.3	10.3
			Bottom	16.6	25.7	27.9 27.9	27.9	6.59 6.57	6.58	6.58	94.6	94.5	6.38 6.35	6.37		13.8 13.1	13.5	
			Surface	1.0	28.6	17.5	17.5	7.87	7.89		112.0	112.4	4.01	4.02		13.1	12.9	
13/7/2021	8:31:11	30/Fine	Middle	8.7	26.4	17.5 24.2	24.2	7.91 7.08	7.06	7.48	112.7 100.7	100.5	4.03 5.44	5.46	5.81	12.6 11.5	11.8	12.1
10///2021	0.0111	00,1110			25.5	24.2 26.5	26.5	7.04 6.35		6.33	100.2 90.1	89.9	5.48 7.92	7.94	0.01	12.1 12.0	11.8	
			Bottom	16.4		26.5 22.5		6.31 6.88	6.33	0.33	89.6 101.7		7.95 1.33	-		11.5 7.0		
			Surface	1.0	29.2	22.6 26.9	22.5	6.91 6.37	6.90	6.62	102.1 95.0	101.9	1.30 4.85	1.32		6.4 11.1	6.7	
15/7/2021	9:37:57	30/Fine	Middle	8.7	28.3	26.9	26.9	6.33	6.35		94.4	94.7	4.88	4.87	4.64	11.3	11.2	11.3
			Bottom	16.4	26.7	29.0 29.0	29.0	5.94 5.96	5.95	5.95	87.3 87.4	87.4	7.72 7.76	7.74		16.1 15.6	15.9	
			Surface	1.0	29.3	19.9 19.9	19.9	7.04	7.03	0.70	102.7 102.4	102.6	2.74 2.76	2.75		16.0 15.9	16.0	
17/07/21	10:01:17	30/Fine	Middle	8.8	27.8	24.9 24.9	24.9	6.44 6.41	6.43	6.73	94.2 93.6	93.9	3.35 3.32	3.34	3.89	14.8 14.3	14.6	15.9
			Bottom	16.6	26.5	27.0	27.0	6.02	6.05	6.05	87.2	87.5	5.59	5.57	ł	17.6	17.3	
						27.0		6.07			87.7		5.55			16.9	L	





Data	Sampling	Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		d Oxygen tion (%)	Τι	urbidity (NT	U)	Susper	nded Solids	s (mg/L)
Date	Duration	Weather Condition		n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	28.8	25.3 25.3	25.3	6.98 6.94	6.96		104.0 103.3	103.7	1.74 1.71	1.73		11.3 11.6	11.5	
19/07/21	14:30:16	30/Fine	Middle	8.7	27.6	29.5 29.5	29.5	6.37 6.34	6.36	6.66	95.3 94.8	95.1	4.11 4.15	4.13	4.41	12.5	12.3	11.5
			Bottom	16.4	26.8	31.0	31.0	5.95	5.94	5.94	88.6	88.5	7.39	7.38		10.8	10.7	
			Surface	1.0	27.5	31.0 22.4	22.4	5.93 7.22	7.24		88.3 103.6	103.8	7.37 2.05	2.06		10.6 17.0	17.4	
01/07/01	45-00-50	00/5:5				22.4 25.4		7.25 6.57		6.91	103.9 94.3		2.07 4.66		4 70	17.8 14.0		45.0
21/07/21	15:30:58	30/Fine	Middle	8.8	26.5	25.4 29.3	25.4	6.59 6.18	6.58		94.7 89.0	94.5	4.64 7.45	4.65	4.73	13.8 15.2	13.9	15.6
			Bottom	16.6	25.4	29.3	29.3	6.16	6.17	6.17	88.8	88.9	7.48	7.47		15.8	15.5	
			Surface	1.0	27.8	23.1 23.1	23.1	6.54 6.50	6.52	6.24	94.7 94.0	94.4	4.56 4.59	4.58		4.0 4.3	4.2	
23/07/21	16:30:47	30/Fine	Middle	8.8	26.3	25.4 25.4	25.4	5.98 5.95	5.97	0.24	85.5 85.0	85.3	5.17 5.15	5.16	5.73	6.3 5.7	6.0	5.9
			Bottom	16.6	25.3	28.0 28.0	28.0	5.27 5.29	5.28	5.28	75.2 75.6	75.4	7.42 7.46	7.44		7.8 7.5	7.7	
			Surface	1.0	27.5	25.2 25.2	25.2	6.98 6.94	6.96		101.7 101.3	101.5	3.61 3.63	3.62		9.4 9.6	9.5	
27/07/21	9:32:17	30/Fine	Middle	8.8	26.3	27.1	27.1	6.46 6.44	6.45	6.71	93.3 92.8	93.1	4.17	4.15	4.41	12.2 11.7	12.0	11.1
			Bottom	16.5	25.5	28.5 28.5	28.5	6.11 6.08	6.10	6.10	87.7 87.3	87.5	5.43 5.46	5.45		11.8	12.0	
			Surface	1.0	27.3	26.1	26.1	6.79	6.80		99.2	99.4	3.42	3.43		13.3	13.1	
29/07/21	9:18:21	30/Fine	Middle	8.8	25.9	26.2 28.4	28.4	6.81 6.34	6.32	6.56	99.6 91.6	91.3	3.44 3.66	3.65	4.12	12.9 11.5	11.8	13.9
			Bottom	16.6	25.2	28.4 29.8	29.8	6.30 6.05	6.04	6.04	91.0 87.0	86.8	3.63 5.30	5.29		12.1 17.0	16.8	
					-	29.8 28.4		6.03 7.45		0.01	86.6 111.9		5.27 2.22			16.5 7.4		
			Surface	1.0	28.2	28.5	28.4	7.48	7.47	7.14	112.3	112.1	2.25	2.24		7.3	7.4	
31/07/21	10:30:35	30/Fine	Middle	8.7	27.1	29.7 29.7	29.7	6.82 6.80	6.81		101.3 101.0	101.2	3.19 3.15	3.17	3.20	7.5 7.0	7.3	6.4
			Bottom	16.4	26.0	31.0 31.0	31.0	6.33 6.37	6.35	6.35	93.0 93.4	93.2	4.18 4.20	4.19		4.7 4.5	4.6	



Monitoring Station : TM-FC1

Date	Sampling	Ambient Temp (°C) /	Monitori	ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		ed Oxygen ation (%)	Т	urbidity (NT	U)	Suspe	nded Solid	s (mg/L)
Date	Duration	Weather Condition	(r	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	28.1	18.4 18.4	18.4	6.45 6.47	6.46		91.4 91.9	91.7	1.93 1.95	1.94		8.9 8.6	8.8	
02/07/21	8:35:44	30/Fine	Middle	11.2	26.8	28.4 28.4	28.4	5.36 5.33	5.35	5.90	78.6 78.3	- 78.5	2.72 2.75	2.74	3.26	8.4 8.2	8.3	9.5
			Bottom	21.4	25.5	29.6 29.6	29.6	4.71 4.68	4.70	4.70	68.0 67.6	67.8	5.09 5.12	5.11		11.4 11.3	11.4	
			Surface	1.0	28.1	19.9 20.0	19.9	6.80 6.82	6.81		97.2 97.5	97.4	2.21	2.24		8.9 8.6	8.8	
06/07/21	9:31:20	30/Fine	Middle	11.1	26.9	28.7 28.7	28.7	6.01 6.05	6.03	6.42	88.5 89.1	88.8	4.82	4.84	4.72	9.0 8.9	9.0	9.7
			Bottom	21.3	25.4	30.3 30.3	30.3	5.74 5.71	5.73	5.73	83.1 82.8	83.0	7.06	7.08		11.4	11.3	_
			Surface	1.0	28.4	16.9 17.0	16.9	8.05 8.03	8.04	_	113.8 113.5	113.7	3.54 3.52	3.53		3.2	3.3	
08/07/21	10:01:25	30/Fine	Middle	11.2	27.3	29.5 29.5	29.5	7.33 7.36	7.35	7.69	109.1 109.5	109.3	7.96 7.92	7.94	7.57	2.1 2.2	2.2	2.9
			Bottom	21.4	25.9	31.6 31.6	31.6	6.45 6.47	6.46	6.46	94.9 95.2	95.1	11.24 11.26	11.25		3.4 3.4	3.4	
			Surface	1.0	28.8	17.6 17.6	17.6	7.63 7.61	7.62		109.0 108.7	108.9	3.80 3.78	3.79		13.7 13.3	13.5	
10/07/21	10:31:11	30/Fine	Middle	11.2	26.7	25.8 25.8	25.8	6.51 6.49	6.50	7.06	93.9 93.5	93.7	7.16 7.12	7.14	7.53	11.3 11.9	11.6	11.5
			Bottom	21.4	25.6	27.8 27.8	27.8	5.55 5.51	5.53	5.53	79.5 79.0	79.3	11.65 11.68	11.67		9.3 9.4	9.4	
			Surface	1.0	28.5	17.6 17.6	17.6	7.98 7.96	7.97	7.00	113.4 113.1	113.3	4.16 4.19	4.18		7.4 7.0	7.2	
13/7/2021	13:30:31	30/Fine	Middle	10.9	26.4	24.3 24.3	24.3	6.76 6.73	6.75	7.36	96.2 96.0	96.1	7.45 7.49	7.47	7.69	13.6 13.9	13.8	11.1
			Bottom	20.9	25.5	26.7 26.7	26.7	6.22 6.20	6.21	6.21	88.4 88.1	88.3	11.45 11.42	11.44		12.9 12.0	12.5	
			Surface	1.0	29.2	21.5 21.5	21.5	7.12 7.16	7.14	6.76	104.6 105.2	104.9	1.37 1.46	1.42		8.9 8.6	8.8	
15/7/2021	14:30:36	30/Fine	Middle	11.0	28.5	26.6 26.6	26.6	6.40 6.37	6.39	0.70	95.6 95.2	95.4	5.66 5.63	5.65	5.79	15.6 15.3	- 15.5	12.4
			Bottom	21.0	26.5	30.2 30.2	30.2	6.01 6.04	6.03	6.03	88.6 89.0	88.8	10.31 10.29	10.30		12.9 13.3	- 13.1	
			Surface	1.0	29.3	19.6 19.6	19.6	7.01 6.97	6.99	6.71	102.1 101.7	101.9	3.96 3.99	3.98		9.3 9.7	9.5	
17/07/21	16:01:10	30/Fine	Middle	11.1	27.3	26.4 26.4	26.4	6.42 6.44	6.43	0./1	93.9 94.3	94.1	5.76 5.78	5.77	6.54	10.2 10.3	10.3	9.6
			Bottom	21.2	26.2	27.1 27.1	27.1	5.93 5.96	5.95	5.95	85.5 85.9	85.7	9.87 9.90	9.89		8.9 9.2	9.1]



Monitoring Station : TM-FC1

Date	Sampling	Ambient Temp (°C) /	Monitorii	ng Depth	Temp	Salini	ty (ppt)	Dissolv	ved Oxygen	(mg/L)		d Oxygen tion (%)	Τι	urbidity (NT	U)	Suspe	nded Solids	s (mg/L)
Date	Duration	Weather Condition	(r	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	28.6	24.8 24.8	24.8	6.99 7.02	7.01		103.5 104.0	103.8	2.67 2.71	2.69		15.6 14.9	15.3	
19/07/21	9:27:13	30/Fine	Middle	11.1	27.4	28.1 28.1	28.1	6.28 6.26	6.27	6.64	92.9 92.7	92.8	7.44 7.41	7.43	6.90	8.2 7.9	8.1	10.9
			Bottom	21.2	26.4	30.2 30.2	30.2	5.91 5.87	5.89	5.89	87.0 86.4	86.7	10.57 10.59	10.58	1	9.8 9.2	9.5	
			Surface	1.0	27.5	23.8	23.8	6.61 6.65	6.63		95.6 96.0	95.8	2.19	2.21		15.3 15.2	15.3	
21/07/21	9:38:11	30/Fine	Middle	11.1	26.6	26.5 26.5	26.5	6.39 6.36	6.38	6.50	92.4 92.0	92.2	6.98 6.96	6.97	6.48	16.0 16.4	16.2	16.1
			Bottom	21.3	25.8	29.1	29.1	6.02	6.01	6.01	87.1	87.0	10.23 10.27	10.25	-	16.4 17.0 16.7	16.9	
			Surface	1.0	27.8	29.1 24.3	24.3	6.00 6.39	6.38		86.8 93.2	93.1	6.05	6.07		6.4	6.3	
23/07/21	10:02:26	30/Fine	Middle	11.1	26.6	24.3 25.8	25.8	6.36 5.82	5.81	6.09	92.9 83.8	83.6	6.08 8.32	8.34	8.29	6.2 5.1	5.0	5.9
			Bottom	21.2	25.4	25.8 26.4	26.4	5.80 5.43	5.45	5.45	83.4 76.9	77.2	8.36 10.44	10.46	•	4.9 6.4	6.3	
			Surface	1.0	27.5	26.4 25.2	25.2	5.47 6.84	6.85		77.5 99.7	99.9	10.48 4.74	4.73		6.2 9.6	9.7	
27/07/21	15:30:18	30/Fine	Middle	11.0	26.2	25.2 27.4	27.4	6.86 6.25	6.27	6.56	100.0 90.2	90.5	4.71 7.16	7.18	6.97	9.8 8.8	8.9	9.8
21/01/21	13.30.10	50/1 me				27.4 29.4		6.29 5.88		5.07	90.7 84.4		7.19 9.01	-	0.57	9.0 10.6		5.0
			Bottom	21.1	25.2	29.4 25.7	29.4	5.85 7.08	5.87	5.87	84.0 103.3	84.2	8.99 3.13	9.00		10.8 10.8	10.7	
			Surface	1.0	27.4	25.7 26.5	25.7	7.06	7.07	6.75	103.2 92.7	103.3	3.16 5.08	3.15	÷	10.2	10.5	
29/07/21	14:30:16	30/Fine	Middle	11.1	26.2	26.5	26.5	6.42	6.44		92.1	92.4	5.10	5.09	5.52	7.6 7.1	7.4	9.9
			Bottom	21.2	25.2	28.8 28.8	28.8	6.19 6.21	6.20	6.20	88.5 88.8	88.7	8.33 8.29	8.31		11.8 11.9	11.9	
			Surface	1.0	28.1	28.5 28.5	28.5	7.35 7.33	7.34	6.81	110.3 109.8	110.1	2.74 2.72	2.73		8.5 8.0	8.3	
31/07/21	16:30:26	30/Fine	Middle	11.2	26.9	30.7 30.7	30.7	6.29 6.25	6.27	0.01	93.6 92.8	93.2	3.87 3.84	3.86	3.91	4.2 3.8	4.0	5.9
			Bottom	21.4	26.2	31.8 31.8	31.8	6.02 5.99	6.01	6.01	89.1 88.6	88.8	5.13 5.17	5.15		5.5 5.1	5.3	



Monitoring Stati	on :	TM-FM1

Date	Sampling	Ambient Temp (°C) /		ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		d Oxygen tion (%)	Τι	urbidity (NT	U)	Suspe	nded Solids	s (mg/L)
Date	Duration	Weather Condition	(r	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	28.2	19.6 19.6	19.6	6.54 6.51	6.53	6.01	93.5 93.2	93.4	2.18 2.22	2.20		11.2 10.4	10.8	
02/07/21	8:54:46	30/Fine	Middle	8.8	26.9	29.4 29.4	29.4	5.51 5.47	5.49	6.01	81.4 80.7	81.1	1.99 1.96	1.98	3.31	9.9 10.2	10.1	10.6
			Bottom	16.5	25.7	30.4 30.4	30.4	4.95 4.92	4.94	4.94	72.1 71.8	72.0	5.72 5.76	5.74		10.8 11.1	11.0	
			Surface	1.0	28.2	19.1 19.1	19.1	6.98 7.02	7.00		99.5 100.1	99.8	2.39 2.35	2.37		8.2 8.7	8.5	
06/07/21	9:51:31	30/Fine	Middle	8.7	26.9	28.6 28.6	28.6	6.32 6.36	6.34	6.67	92.9 93.5	93.2	4.55 4.57	4.56	4.10	8.6 8.4	8.5	8.2
			Bottom	16.5	25.5	29.2 29.2	29.2	5.96 5.93	5.95	5.95	85.9 85.5	85.7	5.35 5.40	5.38		7.9 7.3	7.6	
			Surface	1.0	28.2	17.0 17.0	17.0	7.95 7.97	7.96		112.0 112.5	112.3	3.51 3.48	3.50		3.3 3.4	3.4	
08/07/21	10:24:00	30/Fine	Middle	8.7	26.9	29.1 29.1	29.1	6.90 6.94	6.92	7.44	101.7 102.5	102.1	6.28 6.33	6.31	6.05	3.6 3.4	3.5	3.4
			Bottom	16.5	25.8	31.1 31.1	31.1	6.63 6.61	6.62	6.62	97.1 96.8	97.0	8.34 8.36	8.35		3.2 3.3	3.3	
			Surface	1.0	28.6	16.8 16.8	16.8	7.93 7.97	7.95	7 70	112.4 112.9	112.7	4.11 4.09	4.10		13.4 14.0	13.7	
10/07/21	10:49:23	30/Fine	Middle	8.7	26.4	26.5 26.5	26.5	7.46 7.44	7.45	7.70	107.5 107.4	107.5	6.27 6.23	6.25	6.16	15.6 14.9	15.3	13.6
			Bottom	16.5	25.8	28.5 28.5	28.5	6.59 6.56	6.58	6.58	95.1 94.5	94.8	8.11 8.14	8.13		12.1 11.7	11.9	
			Surface	1.0	28.5	17.3 17.3	17.3	7.87 7.84	7.86	7.40	111.7 111.4	111.6	4.69 4.65	4.67		13.4 13.0	13.2	
13/7/2021	13:57:51	30/Fine	Middle	8.8	26.5	24.4 24.4	24.4	7.04 7.08	7.06	7.46	100.5 101.0	100.8	5.84 5.87	5.86	6.75	8.4 8.4	8.4	11.0
			Bottom	16.6	25.6	26.0 26.0	26.0	6.25 6.23	6.24	6.24	88.6 88.3	88.5	9.72 9.74	9.73		11.5 11.1	11.3	
			Surface	1.0	29.0	21.3 21.3	21.3	7.08 7.04	7.06	6.67	103.5 103.0	103.3	1.51 1.54	1.53		14.2 14.0	14.1	
15/7/2021	14:52:37	30/Fine	Middle	8.9	27.7	24.4 24.4	24.4	6.27 6.29	6.28	0.07	91.3 91.6	91.5	2.98 2.96	2.97	4.73	8.1 7.9	8.0	12.9
			Bottom	16.8	26.6	26.9 26.9	26.9	5.92 5.95	5.94	5.94	85.8 86.3	86.1	9.67 9.69	9.68		16.9 16.5	16.7	
			Surface	1.0	29.3	19.8 19.8	19.8	6.84 6.80	6.82	6.50	99.7 99.1	99.4	4.22 4.26	4.24		146 13.9	13.9	
17/07/21	16:21:07	30/Fine	Middle	8.7	27.5	24.4 24.4	24.4	6.19 6.17	6.18	6.50	89.8 89.4	89.6	6.20 6.17	6.19	6.00	11.8 11.9	11.9	11.1
			Bottom	16.4	26.6	26.7 26.7	26.7	5.78 5.76	5.77	5.77	83.7 83.4	83.6	7.57 7.55	7.56	l	8.9 8.9	8.9	



Monitoring Station :	TM-FM1
monitoring Station .	

Date	Sampling	Ambient Temp (°C) /	Monitorii	ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		d Oxygen tion (%)	Τι	urbidity (NT	U)	Suspe	nded Solids	s (mg/L)
Date	Duration	Weather Condition	(r	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	28.5	25.8	25.8	6.79	6.81		101.0	101.2	1.70	1.69		11.5	11.3	
			Gunace	1.0	20.5	25.8	20.0	6.82	0.01	6.51	101.4	101.2	1.68	1.00		11.1	11.0	
19/07/21	9:44:28	30/Fine	Middle	8.8	27.3	29.8	29.8	6.23	6.22	0.01	92.9	92.7	6.61	6.63	5.59	10.8	10.5	12.3
10/07/21	0.1.1.20	00/1 110	inidalio	0.0	27.0	29.8	20.0	6.20	0.22		92.4	02	6.64	0.00	0.00	10.2		.2.0
			Bottom	16.7	26.4	30.7	30.7	5.89	5.88	5.88	86.9	86.8	8.42	8.44		14.8	15.1	
						30.7		5.87			86.6		8.46			15.4		
			Surface	1.0	27.5	22.3	22.3	6.70	6.72		96.1	96.3	2.49	2.47		16.0	16.0	
						22.3		6.74		6.48	96.5	-	2.45		ļ	16.0		-
21/07/21	10:02:17	30/Fine	Middle	8.7	26.5	26.1	26.1	6.22	6.24		89.6	89.8	4.22	4.23	4.73	17.6	17.7	15.5
						26.1		6.25			90.0		4.24		ł	17.8		
			Bottom	16.5	25.8	28.5	28.5	5.83	5.84	5.84	84.1	84.3	7.48 7.51	7.50		12.9	12.7	
	-					28.5 22.5		5.85 6.62			84.4 95.2	-	3.92			12.5 4.6	-	
			Surface	1.0	27.6	22.5	22.5	6.58	6.60		95.2	94.9	3.92	3.94		4.0	4.4	
						24.9		6.20		6.41	88.6		5.26			2.6		-
23/07/21	10:24:35	30/Fine	Middle	8.7	26.4	24.9	24.9	6.24	6.22		89.3	89.0	5.20	5.24	5.45	3.0	2.8	4.1
						26.7		5.97			84.6		7.19		ł	5.4		
			Bottom	16.4	25.3	26.7	26.7	5.94	5.96	5.96	84.3	84.5	7.17	7.18		5.0	5.2	
						25.2		6.55			95.8		3.54			11.7		
			Surface	1.0	27.7	25.2	25.2	6.52	6.54		95.2	95.5	3.60	3.57		11.5	11.6	
07/07/04	45-54-00	00/Fin -	Madalla	0.7	00.0	26.4	00.4	6.16	0.47	6.35	88.6	00.0	5.67	5.00	F 00	12.2	40.4	44.0
27/07/21	15:51:29	30/Fine	Middle	8.7	26.3	26.4	26.4	6.18	6.17		88.9	88.8	5.69	5.68	5.66	11.9	12.1	11.3
			Bottom	16.4	25.3	28.6	28.6	5.91	5.89	5.89	84.6	84.4	7.70	7.72	Ī	10.5	10.4	1
			Dottom	10.4	20.0	28.6	20.0	5.87	5.65	5.05	84.2	04.4	7.73	1.12		10.2	10.4	
			Surface	1.0	27.6	25.9	25.9	6.64	6.63		97.3	97.1	2.86	2.84		11.2	11.3	
			Ganado	1.0	27.0	25.9	20.0	6.61	0.00	6.42	96.9	07.1	2.82	2.04		11.3	11.0	
29/07/21	14:55:37	30/Fine	Middle	8.7	26.1	26.6	26.6	6.20	6.21	0.42	89.0	89.2	3.49	3.48	4.31	7.6	7.8	11.1
20/07/21	1 1100107	00/1 110	inidailo	0.7	2011	26.6	20.0	6.22	0.2.1		89.4	00.2	3.46	0.10		8.0		
			Bottom	16.3	25.3	28.3	28.3	5.99	6.01	6.01	85.6	85.9	6.61	6.62		14.3	14.2	
						28.3		6.03			86.2		6.63			14.0		
			Surface	1.0	28.3	28.1 28.1	28.1	7.20	7.22		108.1 108.9	108.5	2.39 2.37	2.38		7.1 7.5	7.3	
						29.5		6.33		6.77	93.9		3.48		†	6.3		1
31/07/21	16:54:57	30/Fine	Middle	8.6	27.1	29.5	29.5	6.30	6.32		93.6	93.8	3.45	3.47	3.34	6.1	6.2	5.8
				10.0		31.2		6.06			89.2		4.15		İ	4.0		1
			Bottom	16.2	26.1	31.2	31.2	6.02	6.04	6.04	88.6	88.9	4.19	4.17		3.7	3.9	



	Monitoring Station	: TM-FM2
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Date	Sampling	Ambient Temp (°C) /		ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		ed Oxygen ation (%)	Τι	urbidity (NT		Suspe	nded Solids	
Date	Duration	Weather Condition	(r	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth average
			Surface	1.0	28.3	19.2 19.2	19.2	6.60 6.64	6.62		94.3 95.1	94.7	2.04 2.09	2.07		10.2 10.5	10.4	
00/07/04	0.00.01	00/5:	Malalla		26.9	28.6	00.0	5.49	5.47	6.05	80.8	00 F	2.03	0.00	2.59	11.6	44.7	-
02/07/21	9:09:01	30/Fine	Middle	8.8	26.9	28.6	28.6	5.45	5.47		80.2	80.5	2.32	2.33	2.09	11.8	11.7	11.2
			Bottom	16.6	25.8	30.4 30.4	30.4	4.81 4.84	4.83	4.83	70.2 70.6	70.4	3.38 3.36	3.37		11.6 11.3	11.5	
			Surface	1.0	28.1	20.0	20.0	7.33	7.35		104.8	105.1	2.53	2.54		9.2	9.3	
						20.0 29.2		7.37 6.72		7.03	105.4 99.0		2.55 4.30			9.3 10.5		
06/07/21	10:06:46	30/Fine	Middle	8.9	26.8	29.2	29.2	6.70	6.71		98.9	99.0	4.34	4.32	3.94	10.6	10.6	10.0
			Bottom	16.7	25.5	30.4 30.5	30.4	6.35 6.32	6.34	6.34	92.2 91.7	92.0	4.98 4.94	4.96		10.4 10.1	10.3	
			Surface	1.0	28.3	17.2	17.2	7.79	7.81		110.1	110.3	3.25	3.26		2.3	2.4	
			Gundoo	1.0	20.0	17.2	17.2	7.82	7.01	7.47	110.5	110.0	3.27	0.20	•	2.4	2.4	_
08/07/21	10:41:32	30/Fine	Middle	8.9	27.1	28.9 28.9	28.9	7.15 7.11	7.13		105.7 105.1	105.4	5.52 5.56	5.54	5.51	3.0 3.2	3.1	2.6
			Bottom	16.8	25.9	30.7	30.7	6.48	6.46	6.46	94.8	94.5	7.73	7.72	1	2.2	2.3	
						30.7 17.0	1	6.44 7.75			94.2 110.0		7.71 3.79			2.3 9.1		
			Surface	1.0	28.6	17.0	17.0	7.77	7.76	7.54	110.3	110.2	3.75	3.77		9.5	9.3	
10/07/21	11:05:08	30/Fine	Middle	8.9	26.6	25.6 25.6	25.6	7.33 7.30	7.32	7.54	105.5 105.1	105.3	5.60 5.58	5.59	5.52	6.0 5.9	6.0	10.8
			Bottom	16.8	25.8	28.0	28.0	6.35	6.34	6.34	91.4	91.2	7.22	7.21		17.4	17.1	
						28.0 18.0		6.32 7.79			90.9 111.1	-	7.20 4.80			16.8 3.9		
			Surface	1.0	28.6	18.0	18.0	7.81	7.80	7.26	111.4	111.3	4.82	4.81		4.2	4.1	
13/7/2021	14:11:31	30/Fine	Middle	8.9	26.4	24.4 24.4	24.4	6.70 6.73	6.72	7.20	95.4 96.0	95.7	6.04 6.01	6.03	6.88	8.3 7.5	7.9	5.8
			Bottom	16.7	25.4	26.1	26.1	6.02	6.04	6.04	85.1	85.5	9.78	9.80		5.3	5.5	
			. <i>(</i>			26.1 21.6		6.06 6.98			85.8 102.3		9.81 1.48	1.50		5.7 13.7	10.0	
			Surface	1.0	29.0	21.6	21.6	6.96	6.97	6.64	102.2	102.3	1.51	1.50	+	14.1	13.9	_
15/7/2021	15:15:32	30/Fine	Middle	8.8	28.0	24.8 24.8	24.8	6.30 6.33	6.32		92.4 92.8	92.6	3.12 3.16	3.14	4.97	10.9 10.7	10.8	12.0
			Bottom	16.6	26.7	27.6 27.6	27.6	5.91 5.87	5.89	5.89	86.2 85.7	86.0	10.27 10.29	10.28	Ī	11.2 11.4	11.3	
			Surface	1.0	29.4	19.9	19.9	6.72	6.71		98.2	98.2	3.57	3.59		13.1	12.9	
					-	19.9 24.9		6.70 6.02	-	6.38	98.1 87.8		3.61 5.96		l	12.7 7.5		
17/07/21	16:38:55	30/Fine	Middle	8.8	27.6	24.9	24.9	6.06	6.04		88.4	88.1	5.94	5.95	5.89	7.1	7.3	10.
			Bottom	16.6	26.6	26.7 26.7	26.7	5.64 5.61	5.63	5.63	81.7 81.4	81.6	8.15 8.11	8.13		9.8 9.9	9.9	



Monitoring Station : TM-FM2

Date	Sampling	Ambient Temp (°C) /	Monitori		Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		d Oxygen ition (%)	Τι	ırbidity (NT		Suspe	nded Solids	s (mg/L)
Date	Duration	Weather Condition	(r	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	28.6	24.8 24.8	24.8	6.91 6.93	6.92		102.4 10.7	56.6	1.96 1.93	1.95		12.0 11.7	11.9	
19/07/21	9:58:51	30/Fine	Middle	8.9	27.4	27.4 27.4	27.4	6.35 6.31	6.33	6.63	93.5 92.9	93.2	6.59 6.56	6.58	5.70	12.7 12.9	12.8	12.1
			Bottom	16.8	26.4	30.6 30.6	30.6	5.96 5.94	5.95	5.95	87.9 87.7	87.8	8.55 8.59	8.57		11.5	11.7	
			Surface	1.0	27.5	23.2 23.3	23.2	6.97 6.94	6.96		100.5	100.3	2.53 2.55	2.54		17.4	17.3	
21/07/21	10:20:40	30/Fine	Middle	8.9	26.6	25.6 25.6	25.6	6.50 6.46	6.48	6.72	93.5 93.0	93.3	4.27 4.32	4.30	4.64	17.1	18.1	18.4
			Bottom	16.7	25.4	28.5 28.5	28.5	6.01 6.03	6.02	6.02	86.1 86.6	86.4	7.06 7.09	7.08		20.0 19.7	19.9	
			Surface	1.0	27.8	25.3 25.3	25.3	6.55 6.51	6.53		96.0 95.3	95.7	4.12 4.14	4.13		4.0	4.2	
23/07/21	10:43:16	30/Fine	Middle	8.8	26.4	26.9 26.9	26.9	6.13 6.16	6.15	6.34	88.5 88.8	88.7	5.38	5.40	5.52	7.0	6.9	4.7
			Bottom	16.7	25.4	28.1 28.1	28.1	5.65	5.64	5.64	80.8 80.4	80.6	7.05	7.03		2.7 3.1	2.9	-
			Surface	1.0	27.6	24.9 24.9	24.9	6.90	6.91		100.6 100.9	100.8	3.64 3.68	3.66		10.5	10.8	
27/07/21	16:13:47	30/Fine	Middle	8.9	26.4	24.9 26.4 26.4	26.4	6.92 6.47 6.44	6.46	6.68	93.2 92.8	93.0	4.47 4.50	4.49	4.81	11.0 13.0 13.6	13.3	11.6
			Bottom	16.8	25.1	27.9 27.9	27.9	6.06 6.02	6.04	6.04	86.1 85.7	85.9	6.28 6.26	6.27		10.9 10.3	10.6	
			Surface	1.0	27.5	25.9 25.9	25.9	6.81 6.84	6.83		99.6 100.2	99.9	2.86	2.85		11.2 10.7	11.0	
29/07/21	15:14:16	30/Fine	Middle	8.8	26.2	27.6 27.6	27.6	6.21 6.23	6.22	6.52	89.8 90.2	90.0	3.26 3.28	3.27	3.72	7.3 7.8	7.6	7.6
			Bottom	16.6	25.2	29.9 29.9	29.9	5.91 5.95	5.93	5.93	85.1 85.8	85.5	5.07 5.03	5.05		4.3 4.0	4.2	
			Surface	1.0	28.3	28.3 28.3	28.3	7.40 7.43	7.42		111.2 111.5	111.4	2.66 2.62	2.64		7.9 7.5	7.7	
31/07/21	17:15:49	30/Fine	Middle	8.8	27.3	29.5 29.5	29.5	6.55 6.51	6.53	6.97	97.5 97.0	97.3	3.29 3.26	3.28	3.28	5.3 4.9	- 5.1	7.6
			Bottom	16.6	26.2	31.7 31.7	31.7	6.19 6.21	6.20	6.20	91.5 91.7	91.6	3.92 3.94	3.93		10.1	10.1	

東業德勤測試顧問有限公司 ETS-TESTCONSULT LIMITED

Monitoring Station :	TM-FC2
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Date	Sampling	Ambient Temp (°C) /	Monitorii		Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		d Oxygen tion (%)	Τι	urbidity (NT	U)	Suspe	nded Solids	s (mg/L)
Duio	Duration	Weather Condition	(r	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	28.4	20.6 20.6	20.6	6.61 6.58	6.60	6.11	95.3 94.9	95.1	2.10 2.07	2.09	, v	9.5 10.0	9.8	
02/07/21	9:23:13	30/Fine	Middle	8.6	27.0	29.4 29.5	29.4	5.63 5.60	5.62	6.11	83.3 82.9	83.1	2.25 2.29	2.27	2.31	12.1 11.6	11.9	11.0
			Bottom	16.3	25.9	31.2 31.2	31.2	5.04 4.99	5.02	5.02	74.0 73.2	73.6	2.55 2.58	2.57		11.1 11.4	11.3	
			Surface	1.0	28.1	20.2 20.3	20.2	7.22 7.18	7.20	6.85	103.4 102.9	103.2	2.36 2.38	2.37		9.3 9.3	9.3	
06/07/21	10:21:10	30/Fine	Middle	8.7	26.8	29.3 29.3	29.3	6.49 6.51	6.50	6.65	95.7 96.1	95.9	3.95 3.99	3.97	3.72	9.3 9.2	9.3	9.4
			Bottom	16.4	25.6	31.7 31.7	31.7	6.04 6.01	6.03	6.03	88.4 88.0	88.2	4.82 4.79	4.81		9.3 9.8	9.6	
			Surface	1.0	28.3	17.4 17.4	17.4	7.75 7.71	7.73	7.29	109.6 109.2	109.4	3.36 3.39	3.38		3.5 3.1	- 3.3	
08/07/21	11:05:43	30/Fine	Middle	8.6	27.0	28.1 28.1	28.1	6.86 6.84	6.85	1.29	100.8 100.7	100.8	3.79 3.81	3.80	4.90	3.0 3.2	- 3.1	2.9
			Bottom	16.2	26.2	30.6 30.6	30.6	6.35 6.39	6.37	6.37	93.3 93.9	93.6	7.51 7.56	7.54		2.3 2.5	2.4	
			Surface	1.0	28.5	19.2 19.2	19.2	7.80 7.84	7.82	7.52	111.8 112.4	112.1	3.65 3.68	3.67		13.5 14.1	13.8	
10/07/21	11:23:12	30/Fine	Middle	8.6	26.7	26.7 26.8	26.7	7.21 7.24	7.23	7.52	104.6 104.9	104.8	6.50 6.46	6.48	5.73	13.6 12.9	- 13.3	13.6
			Bottom	16.3	25.9	28.0 28.0	28.0	6.29 6.31	6.30	6.30	90.7 91.0	90.9	7.02 7.05	7.04		13.9 13.7	13.8	
			Surface	1.0	28.7	17.3 17.3	17.3	7.62 7.65	7.64	7.23	108.5 108.9	108.7	4.32 4.35	4.34		4.0 3.6	3.8	
13/7/2021	14:32:40	30/Fine	Middle	8.6	26.6	25.5 25.5	25.5	6.84 6.82	6.83	7.23	98.4 97.9	98.2	6.44 6.41	6.43	6.54	10.8 10.7	10.8	8.3
			Bottom	16.2	25.6	27.7 27.7	27.7	6.08 6.12	6.10	6.10	87.0 87.6	87.3	8.85 8.87	8.86		10.1 10.8	10.5	
			Surface	1.0	29.3	22.9 22.9	22.9	6.66 6.69	6.68	6.42	98.8 99.2	99.0	1.58 1.60	1.59		15.2 14.9	- 15.1	
15/7/2021	15:39:40	30/Fine	Middle	8.6	28.4	25.7 25.7	25.7	6.17 6.15	6.16	0.42	91.6 91.4	91.5	5.96 6.00	5.98	5.34	17.4 16.7	17.1	16.4
			Bottom	16.2	26.7	28.9 28.9	28.9	5.73 5.70	5.72	5.72	84.1 83.7	83.9	8.46 8.44	8.45		16.8 17.2	17.0	
			Surface	1.0	29.4	20.3 20.3	20.3	6.88 6.85	6.87	0.50	100.7 100.3	100.5	3.30 3.26	3.28		16.5 17.1	16.8	
17/07/21	16:56:21	30/Fine	Middle	8.7	27.7	24.6 24.7	24.6	6.28 6.30	6.29	6.58	91.6 91.9	91.8	3.88 3.86	3.87	4.44	6.4 6.8	6.6	10.5
			Bottom	16.4	26.6	26.9 26.9	26.9	5.83 5.87	5.85	5.85	84.5 84.9	84.7	6.17 6.14	6.16		8.0 8.1	8.1	1



Monitoring Station :	TM-FC2
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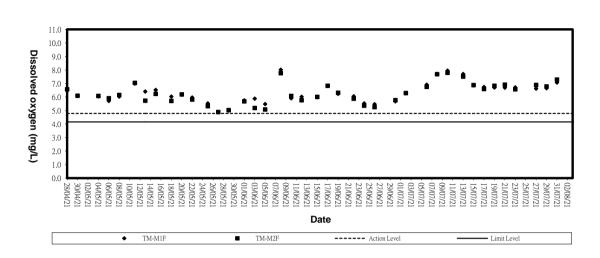
Date	Sampling	Ambient Temp (°C) /	Monitorii	ng Depth	Temp	Salini	ty (ppt)	Dissol	ved Oxygen	(mg/L)		d Oxygen tion (%)	Τι	urbidity (NT	U)	Suspe	nded Solids	s (mg/L)	
Date	Duration	Weather Condition	(r	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average	
			Surface	1.0	28.6	24.7	24.7	6.64	6.63		98.3	98.2	1.78	1.79		8.5	8.6		
						24.8		6.62		6.40	98.0		1.80		-	8.7		-	
19/07/21	10:13:13	30/Fine	Middle	8.6	27.4	28.6 28.6	28.6	6.14 6.18	6.16		91.1 91.7	91.4	5.33 5.37	5.35	4.97	14.7 14.1	14.4	13.3	
						28.6		5.69			91.7 84.2		7.75		ł	14.1	-		
			Bottom	16.3	26.6	30.5	30.5	5.66	5.68	5.68	83.7	84.0	7.78	7.77		16.9	17.0		
						22.4		7.03			101.1		2.00			16.0			
			Surface	1.0	27.6	22.4	22.4	7.07	7.05		101.6	101.4	1.96	1.98		15.4	15.7		
0.1 /07 /04		0.0 / F				26.6		6.31		6.69	91.5	o. 7	6.40			16.3			
21/07/21	10:41:44	30/Fine	Middle	8.6	26.7	26.6	26.6	6.34	6.33		91.9	91.7	6.42	6.41	5.75	16.5	16.4	14.4	
			Bottom	16.2	25.6	28.5	28.5	5.97	5.96	5.96	85.9	85.8	8.84	8.86	Ī	11.5	11.2		
			Dottom	10.2	23.0	28.5	20.5	5.95	3.50	5.50	85.6	00.0	8.87	0.00			10.9	11.2	
			Surface	1.0	27.8	23.4	23.4	6.29	6.28		91.2	91.2	4.81	4.83		5.5	5.3		
			Ganado		27.0	23.4	20.1	6.27	0.20	6.00	91.1	01.2	4.84			5.1	0.0		
23/07/21	11:05:12	30/Fine	Middle	8.6	26.4	25.8	25.8	5.70	5.72		81.8	82.0	5.49	5.47	6.01	3.5	3.7	3.6	
						-	25.8		5.73			82.1		5.45	-		3.8	_	
			Bottom	16.2	25.5	26.7 26.7	26.7	5.06 5.02	5.04	5.04	71.9 71.2	71.6	7.73 7.75	7.74		1.9 2.0	2.0		
			Curfage	1.0	27.4	25.3	05.0	6.69	0.71		97.4	97.7	3.83	0.04		15.8	15.7		
			Surface	1.0	27.4	25.3	25.3	6.72	6.71	6.51	98.0	97.7	3.85	3.84		15.5	15.7		
27/07/21	16:36:54	30/Fine	Middle	8.6	26.1	27.0	27.0	6.30	6.32	0.51	90.6	90.9	4.59	4.57	4.87	10.3	10.0	13.2	
Enonei	10.00.04	00/11110	Middle	0.0	20.1	27.0	27.0	6.33	0.02		91.2	00.0	4.55	4.07	4.07	9.6	10.0	10.2	
			Bottom	16.1	25.3	28.2	28.2	5.75	5.77	5.77	82.1	82.4	6.20	6.21		13.9	13.9		
						28.2		5.79			82.6		6.22			13.9			
			Surface	1.0	27.4	25.7	25.7	6.59	6.61		96.1	96.4	3.54	3.56		8.5	8.6		
						25.7		6.62		6.37	96.6		3.57			8.7			
29/07/21	15:33:14	30/Fine	Middle	8.6	26.1	27.4 27.4	27.4	6.12	6.13		88.2	88.3	4.27 4.30	4.29	4.65	12.9	13.0	11.4	
						27.4		6.14 5.83			88.3 84.0		4.30 6.11		-	13.0 12.8		-	
			Bottom	16.2	25.3	29.8	29.8	5.80	5.82	5.82	83.4	83.7	6.09	6.10		12.5	12.7		
						28.3		7.13			107.0		2.34			7.1			
			Surface	1.0	28.2	28.3	28.3	7.17	7.15	0.00	107.8	107.4	2.38	2.36		8.0	7.6		
01/07/01	17:00:10	20/Find	Middle	0.0	07.0	29.5	00 F	6.66	0.05	6.90	99.1	00.0	3.46	0.40	0.40	7.0	0.7	7.0	
31/07/21	17:36:18	30/Fine	Middle	8.6	27.3	29.5	29.5	6.64	6.65		98.7	98.9	3.49	3.48	3.43	6.4	6.7	7.6	
			Bottom	16.3	26.1	30.7	30.7	6.21	6.23	6.23	91.2	91.4	4.45	4.46	Ι	9.0	8.7]	
			Dottoill	10.0	20.1	30.7	50.7	6.24	0.20	0.20	91.5	51.4	4.47	7.70		8.3	0.7		



Appendix C3

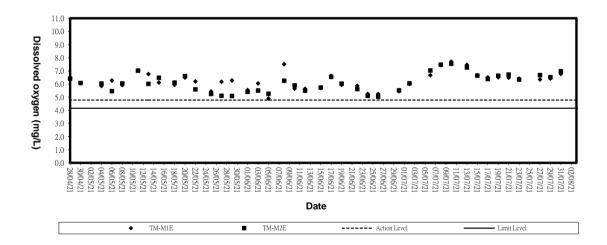
Graphical Plots of Impact Marine Water Quality Monitoring Data





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

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

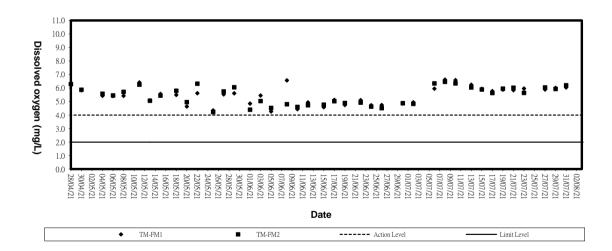




11.0 10.0 Dissolved oxygen (mg/L) 9.0 8.0 7.0 6.0 5.0 4.0 3.0 2.0 1.0 0.0 10/05/21 08/05/21 06/05/21 04/05/21 02/05/21 - 27/07/2 - 25/07/2 - 23/07/2 30/04/21 03/06/2 05/06/2: 15/06/21 13/06/21 · 21/06/21 · 19/06/21 23/06/21 25/06/21 27/06/21 29/06/21 01/07/2 03/07/2 05/07/2 07/07/2 09/07/2 21/07/2 12/05/2 16/05/2 18/05/2 20/05/2 22/05/2 24/05/2 26/05/2 28/05/2 30/05/2 01/06/2 07/06/2: 09/06/2: 17/06/21 13/07/2 15/07/2 19/07/2 02/08/2 14/05/2 11/06/21 11/07/2 17/07/2 29/07/2 31/07/2 -21 Date ٠ TM-FM1 • TM-FM2 ----- Action Level _ - Limit Level

Dissolved Oxygen (Bottom) at Mid-Flood Tide

Dissolved Oxygen (Bottom) at Mid-Ebb Tide

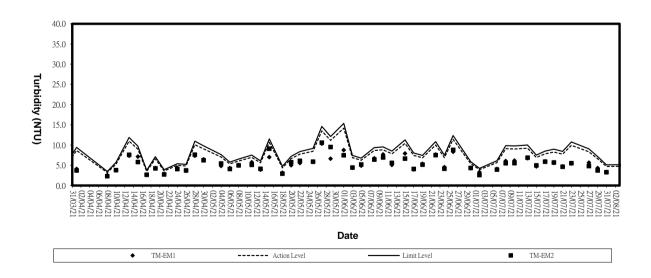




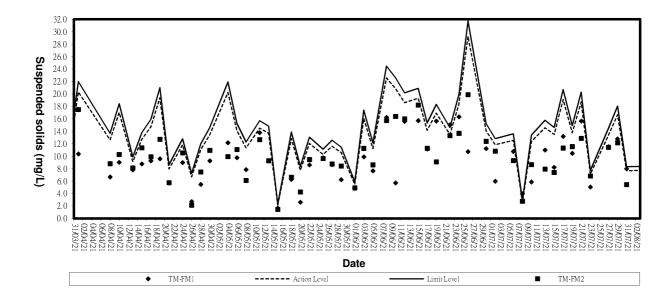
20.0 18.0 16.0 14.0 Turbidity (NTU) 12.0 10.0 8.0 6.0 4.0 2.0 0.0 31/03/21 06/04/2 09/07/21 02/08/2 04/04/2 08/04/ 03/07/2 2/04/2 10/04 2/04/ 4/04 8/04/ 0/05/2)5/06/2 5/06/2 9/06/2 3/06/2 5/06/2 /06/ 11/07/2 1/07/ 3/07/2 5/07/2 9/07/2 5/07/2 3/06/ 7/06/2 1/06/2 7/06/ 1/07/2 707 1/07/2 3/07/12 9/07/2 1/07/2 3/06/2 1/06/2 1/06/2 200% 1/0/1/ Date TM-FM1 TM-FM2 ----- Action Level - Limit Level . ٠

Turbidity (Depth-average) at Mid-Flood Tide



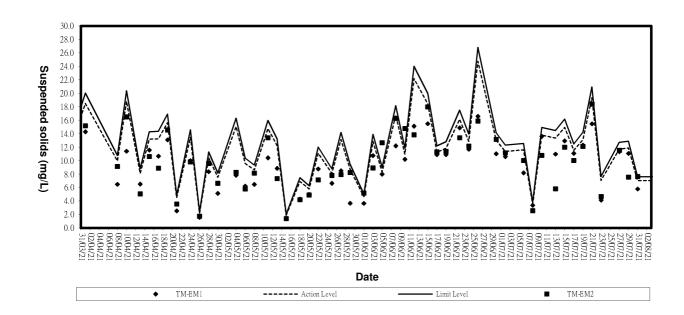






Suspended solids (Depth-average) at Mid-Flood Tide

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





Appendix D1

Calibration Certificates for Impact Noise Monitoring Equipments



Hong Kong Calibration Ltd. 香港校正有限公司

Calibration Certificate

Certificate No.	009927		Page	1	of	2	Pages
Customer :	ETS-Testconsult Limited						
Address :	8/F., Block B, Veristrong Indust	rial Centre, 34-36 Au	i Pui Wan St., Fo	otan,	Hong	Kon	g.
Order No. :	Q04004		Date of receipt	t :			6-Oct-20
Item Tested							
Description :	Sound Level Calibrator						
Manufacturer :	Rion		I.D.	;	ET/E	EN/0	02/01
Model :	NC-73		Serial No.	:	1019) 694	3
Test Conditi	ons						
Date of Test :	15-Oct-20		Supply Voltage	e :			
Ambient Temp	erature : (23 ± 3)°C		Relative Humic	dity	: (50 ±	£ 25)	i %
Test Specifi	cations						
Calibration chec	∧k						
	Procedure : F21, Z02.						
Hon. Doournona							
Test Results	3						
All results were	within the manufacturer's specif	ication.					
The results are	shown in the attached page(s).						
Main Test equip	oment used:						
Equipment No.		<u>Cert. No.</u>		<u>Tra</u>	ceable	<u>e to</u>	
S014	Spectrum Analyzer	005018		NIN	1-PRC) & S	SCL-HKSAR
S240	Sound Level Calibrator	003053		NIM	1-PRC) & S	SCL-HKSAR
S041	Universal Counter	001622		SCI	L-HKS	SAR	
S206	Sound Level Meter	007031		SCI	L-HKS	3AR	
The values given in	this Calibration Certificate only relate to	the values measured at	the time of the test a	nd an	y unce	rtainti	es quoted
will not include allow	wance for the equipment long term drift, andling, or the capability of any other lab	variations with environme	ental changes, vibrati	ion an	ia snoci	k aun	ng transportation,
for any loss or dam	age resulting from the use of the equipr	nent.					

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

Calibrated	by	:	

Elva Chong

Approved by : Alan Chu 15-Oct-20 Date:

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

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Hong Kong Calibration Ltd. 香港校正有限公司

Calibration Certificate

Certificate No. 009927

Page 2 of 2 Pages

Results :

1. Level Accuracy (at 1 kHz)

UUT Nominal Value	Measured Value	Mfr's Spec.			
94.0 dB	94.1 dB	$\pm 1 \text{ dB}$			

Uncertainty : $\pm 0.2 \text{ dB}$

2. Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's Spec.
1 kHz	0.984 kHz	± 2 %

Uncertainty : ± 0.1 %

- 3. Level Stability : 0.0 dBUncertainty : $\pm 0.01 \text{ dB}$
- Total Harmonic Distortion : < 0.5 % Mfr's Spec. : < 3 % Uncertainty : ± 2.3 % of reading

Remarks: 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure : 1 004 hPa

----- END -----

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Calibration Certificate

Certificate No. 009926	Page 1 of 3 Pages
Customer: ETS-Testconsult Limited	
Address : 8/F., Block B, Veristrong Industrial C	entre, 34-36 Au Pui Wan St., Fotan, Hong Kong.
Order No.: Q04004	Date of receipt : 6-Oct-20
Item Tested	
Description : Sound Level Meter	
Manufacturer : Rion	I.D. : ET/EN/003/16
Model : NL-52	Serial No. : 00253765
Test Conditions	
Date of Test: 15-Oct-20	Supply Voltage :
Ambient Temperature : (23 ± 3)°C	Relative Humidity : (50 ± 25) %
Test Specifications	
Calibration check. Ref. Document/Procedure: Z01, IEC 61672.	
Test Results	
All results were within the IEC 61672 Type 1 specifica The results are shown in the attached page(s).	tion. (where applicable)
Main Test equipment used:	
Equipment No. Description Cer	t. No. Traceable to
S017 Multi-Function Generator C19	0926 SCL-HKSAR
S240 Sound Level Calibrator 003	053 NIM-PRC & SCL-HKSAR

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

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

Calibrated by	:
-	Elva Chong
This Certificate is issued	ЭV.

Hong Kong Calibration Ltd.

(Qu Approved by : _ Alan Chu

Date: 15-Oct-20

Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Kong. Tel: 2425 8801 Fax: 2425 8646 The copyright of this certificate is owned by Hong Kong Calibration Ltd.. It may not be reproduced except in full.



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Calibration Certificate

Certificate No. 009926

Page 2 of 3 Pages

Results :

Acoustical signal test

1. Self-generated noise: 22.9dBA

2. Reference Sound Pressure Level

	UUT S				
	Frequency	Time	Octave	Applied	UUT
Range (dB)	Weighting	Weighting	Filter	Value (dB)	Reading (dB)
20~130	A	F	OFF	94.0	94.1
		S	OFF		94.1
	С	F	OFF		94.1
	Z	F	OFF		94.1
	A	F	OFF	114.0	114.1
		S	OFF		114.1
	C	F	OFF		114.1
	Z	F	OFF		114.1

IEC 61672 Type 1 Spec. : \pm 1.1 dB Uncertainty : \pm 0.1 dB

Electrical signal tests

3. Electrical signal tests of frequency weightings (A weighting)

Frequency	Attenuation (dB)	IEC 61672 Type 1 Spec.
31.5 Hz	-39.7	- 39.4 dB, ± 2 dB
63 Hz	-26.4	- 26.2 dB, ± 1.5 dB
125 Hz	-16.4	- 16.1 dB, ± 1.5 dB
250 Hz	-8.8	- 8.6 dB, ± 1 dB
500 Hz	-3.3	- 3.2 dB, ± 1.4 dB
1 kHz	0.0 (Ref)	$0 \text{ dB}, \pm 1.1 \text{ dB}$
2 kHz	+1.2	$+$ 1.2 dB, \pm 1.6 dB
4 kHz	+1.0	$+$ 1.0 dB, \pm 1.6 dB
8 kHz	-1.0	- $1.1 \text{ dB}, +2.1 \text{ dB} \sim -3.1 \text{ dB}$
16 kHz	-8.0	- 6.6 dB, + 3.5 dB ~ - 17.0 dB

Uncertainty : $\pm 0.1 \text{ dB}$

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Calibration Certificate

Certificate No. 009926

Page 3 of 3 Pages

4. Frequency & Time weightings at 1 kHz

4.1 Frequency Weighting (Fast)

UUT	Applied	UUT	Difference	IEC 61672
Setting	Value (dB)	Reading (dB)	(dB)	Type I Spec.
A	94.0	94.0 (Ref.)		± 0.4 dB
С	94.0	94.0	0.0	
Z	94.0	94.0	0.0	

4.2 Time Weighting (A-weighted)

UUT	Applied	UUT	Difference	IEC 61672
Setting	Value (dB)	Reading (dB)	(dB)	Type 1 Spec.
Fast	94.0	94.0 (Ref.)		± 0.3 dB
Slow	94.0	94.0	0.0	
Time-averaging	94.0	94.0	0.0	

Uncertainty : $\pm 0.1 \text{ dB}$

Remarks: 1. UUT: Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure : 1 004 hPa.
- 4. Microphone model: UC-59, S/N: 07824.
- 5. Preamplifier model: NH-25, S/N: 43795
- 6. Firmware Version: 1.5
- 7. Power Supply Check: OK
- 8. The UUT was adjusted with the supplied sound calibrator at the reference sound pressure level before the calibration.

----- END -----

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Hong Kong Calibration Ltd. 香港校正_{有限公司}

Calibration Certificate

Certificate No.	102657		Page	1 of 3	Pages
Customer :	ETS-Testconsult Limited				
Address :	8/F., Block B, Veristrong Industria	al Centre, 34-36 Au	Pui Wan St., Fo	tan, Hong Kor	ng.
Order No. :	Q11106		Date of receipt		25-Mar-21
Item Tested					
Description :	Sound Level Meter				
Manufacturer :	Rion		I.D.	: ET/EN/0	03/17
Model :	NL-52		Serial No.	: 0026451	9
Test Conditi	ons				
Date of Test :	7-Apr-21		Supply Voltage)	
Ambient Temp	erature: (23 ± 3)°C		Relative Humic	lity: (50 ± 25) %
Test Specifie	cations				
Calibration chec Ref. Document/	ck. Procedure: Z01, IEC 61672.				
Test Results	3		nning yn ar yw yn gwlang yn gan yn gwlang yn gwlang yn gwlang yn gwlang yn gwlang yn gwlang yn gwlang yn gwlang		
All results were	within the IEC 61672 Type 1 or m	anufacturer's speci	fication.		
	shown in the attached page(s).				
Main Test equip	oment used:				
Equipment No.		<u>Cert. No.</u>		Traceable to	
S017	Multi-Function Generator	C211339		SCL-HKSAR	
S240	Sound Level Calibrator	003053		NIM-PRC & S	SCL-HKSAR

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

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

				-
Calibrated by :	Approv	/ed by :	Qui	
Elva Chong			Kin Wong	
This Certificate is issued by:	Date:	7-Apr-21		
Hong Kong Calibration Ltd.				
Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong Ko	ong.			
Tel: 2425 8801 Fax: 2425 8646				

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Calibration Certificate

Certificate No. 102657

Page 2 of 3 Pages

Results :

Acoustical signal test

1. Self-generated noise: 15.8dBA (Mfr's Spec \leq 17 dBA)

2. Reference Sound Pressure Level

	UUT Setting				
	Frequency	Time	Octave	Applied	UUT
Range (dB)	Weighting	Weighting	Filter	Value (dB)	Reading (dB)
20~130	A	F	OFF	94.0	94.0
		S	OFF		94.0
	С	F	OFF		94.0
	Z	F	OFF		94.0
	A	F	OFF	114.0	114.0
		S	OFF		114.0
	С	F	OFF		114.0
	Z	F	OFF		114.0

IEC 61672 Type 1 Spec. : \pm 1.1 dB Uncertainty : \pm 0.1 dB

Electrical signal tests

3. Electrical signal tests of frequency weightings (A weighting)

Frequency	Attenuation (dB)	IEC 61672 Type 1 Spec.
31.5 Hz	-39.9	- 39.4 dB, ± 2 dB
63 Hz	-26.5	- 26.2 dB, ± 1.5 dB
125 Hz	-16.4	- 16.1 dB, ± 1.5 dB
250 Hz	-8.8	- $8.6 \text{ dB}, \pm 1 \text{ dB}$
500 Hz	-3.3	- $3.2 \text{ dB}, \pm 1.4 \text{ dB}$
1 kHz	0.0 (Ref)	$0 \text{ dB}, \pm 1.1 \text{ dB}$
2 kHz	+1.3	$+$ 1.2 dB, \pm 1.6 dB
4 kHz	+1.2	$+$ 1.0 dB, \pm 1.6 dB
8 kHz	-0.9	- 1.1 dB, + 2.1 dB ~ -3.1 dB
16 kHz	-7.8	- $6.6 \text{ dB}, + 3.5 \text{ dB} \sim -17.0 \text{ dB}$

Uncertainty : $\pm 0.1 \text{ dB}$



Hong Kong Calibration Ltd. 香港校正有限公司

Calibration Certificate

Certificate No. 102657

Page 3 of 3 Pages

4. Frequency & Time weightings at 1 kHz

4.1 Frequency Weighting (Fast)

UUT	Applied	UUT	Difference	IEC 61672
Setting	Value (dB)	Reading (dB)	(dB)	Type 1 Spec.
А	94.0	94.0 (Ref.)		$\pm 0.4 \text{ dB}$
С	94.0	94.0	0.0	
Z	94.0	94.0	0.0	

4.2 Time Weighting (A-weighted)

UUT	Applied	UUT	Difference	IEC 61672
Setting	Value (dB)	Reading (dB)	(dB)	Type 1 Spec.
Fast	94.0	94.0 (Ref.)		± 0.3 dB
Slow	94.0	94.0	0.0	
Time-averaging	94.0	94.0	0.0	

Uncertainty : $\pm 0.1 \text{ dB}$

Remarks : 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure : 1 002hPa.
- 4. Microphone model: UC-59, S/N: 03558
- 5. Preamplifier model : NH-25, S/N : 64644
- 6. Firmware Version: 1.7
- 7. Power Supply Check: OK
- 8. The UUT was adjusted with the laboratory's sound calibrator at the reference sound pressure level before the calibration.

----- END -----



Calibration Certificate

Certificate No.	101201		Page	1 of 3 Pages
Customer :	ETS-Testconsult Limited			
Address :	8/F., Block B, Veristrong Industr	ial Centre, 34-36 Au	Pui Wan St., Fo	tan, Hong Kong.
Order No. :	Q10544		Date of receipt	: 9-Feb-21
Item Tested			аналаналанан токот со <u>у</u> токалан	
Description	Sound Level Meter			
Manufacturer	: Rion		I.D.	: ET/EN/003/18
Model :	NL-52		Serial No.	: 00264520
Test Condit	ions			
Date of Test :	3-Mar-21		Supply Voltage) :
Ambient Temp	erature : (23 ± 3)°C		Relative Humid	lity: (50 ± 25) %
Test Specifi	cations			
Calibration chee	ck.			
Ref. Document/	Procedure: Z01, IEC 61672.			
Test Results	3			
All results were	within the IEC 61672 Type 1 spec	cification. (where ap	plicable)	
The results are	shown in the attached page(s).			
Main Test equip	oment used:			
Equipment No.	Description	<u>Cert. No.</u>		Traceable to
S017A	Multi-Function Generator	906713		SCL-HKSAR
S240	Sound Level Calibrator	003053		NIM-PRC & SCL-HKSAR

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

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

Calibrated by :	Appro	ved by :	CAL	
Elva Chong		ge economie	Kin Wong	
This Certificate is issued by:	Date:	3-Mar-21		
Hong Kong Calibration Ltd.				
Unit 8B, 24/F., Well Fung Industrial Centre, No. 58-76, Ta Chuen Ping Street, Kwai Chung, NT, Hong I	Kong.			
Tel: 2425 8801 Fax: 2425 8646				



Calibration Certificate

Certificate No. 101201

Page 2 of 3 Pages

Results :

Acoustical signal test

1. Self-generated noise: 25.5dBA

2. Reference Sound Pressure Level

	UUT Setting				
	Frequency	Time	Octave	Applied	UUT
Range (dB)	Weighting	Weighting	Filter	Value (dB)	Reading (dB)
20~130	A	F	OFF	94.0	94.0
		S	OFF		94.0
	C	F	OFF		94.0
	Z	F	OFF		94.0
	A	F	OFF	114.0	114.1
		S	OFF		114.1
	C	F	OFF		114.1
	Z	F	OFF		114.1

IEC 61672 Type 1 Spec. : \pm 1.1 dB Uncertainty : \pm 0.1 dB

Electrical signal tests

3. Electrical signal tests of frequency weightings (A weighting)

Frequency	Attenuation (dB)	IEC 61672 Type 1 Spec.
31.5 Hz	-39.9	- 39.4 dB, ± 2 dB
63 Hz	-26.4	- 26.2 dB, ± 1.5 dB
125 Hz	-16.4	- 16.1 dB, ± 1.5 dB
250 Hz	-8.8	- $8.6 \text{ dB}, \pm 1 \text{ dB}$
500 Hz	-3.4	$- 3.2 \text{ dB}, \pm 1.4 \text{ dB}$
1 kHz	0.0 (Ref)	$0 \text{ dB}, \pm 1.1 \text{ dB}$
2 kHz	+1.3	$+$ 1.2 dB, \pm 1.6 dB
4 kHz	+1.1	$+ 1.0 \text{ dB}, \pm 1.6 \text{ dB}$
8 kHz	-1.0	- 1.1 dB, +2.1 dB \sim -3.1 dB
16 kHz	-7.9	- 6.6 dB, + 3.5 dB ~ - 17.0 dB

Uncertainty : $\pm 0.1 \text{ dB}$



Hong Kong Calibration Ltd. 香港校正有限公司

Calibration Certificate

Certificate No. 101201

Page 3 of 3 Pages

4. Frequency & Time weightings at 1 kHz

4.1 Frequency Weighting (Fast)

UUT	Applied	UUT	Difference	IEC 61672
Setting	Value (dB)	Reading (dB)	(dB)	Type 1 Spec.
А	94.0	94.0 (Ref.)		± 0.4 dB
C	94.0	94.0	0.0	
Z	94.0	94.0	0.0	

4.2 Time Weighting (A-weighted)

r	· · · · · · · · · · · · · · · · · · ·		·····	
UUT	Applied	UUT	Difference	IEC 61672
Setting	Value (dB)	Reading (dB)	(dB)	Type 1 Spec.
Fast	94.0	94.0 (Ref.)		± 0.3 dB
Slow	94.0	94.0	0.0	
Time-averaging	94.0	94.0	0.0	

Uncertainty : $\pm 0.1 \text{ dB}$

Remarks : 1. UUT : Unit-Under-Test

- 2. The uncertainty claimed is for a confidence probability of not less than 95%.
- 3. Atmospheric Pressure : 1 012hPa.
- 4. Microphone model: UC-59, S/N : 09668.
- 5. Preamplifier model : NH-25, S/N : 64646.
- 6. Firmware Version: 1.7
- 7. Power Supply Check: OK
- 8. The UUT was adjusted with the supplied sound calibrator at the reference sound pressure level before the calibration.

----- END -----



Appendix D2

Impact Noise Monitoring Results



Day-time Noise Monitoring`

Monitoring Location: TM-RN1 *

Time	Start Sampling	Noi	bise Level dB (A)		Wind	Major Noise	Weather
	Time (hh:mm)	L _{eq(30min)}	L ₁₀	L ₉₀	Speed (m/s)	Sources	Condition
03/07/2021	10:10	59.6	62.3	57.1	0.1	Vehicle passing by	Cloudy
06/07/2021	13:00	59.1	60.8	55.8	0.2	Vehicle passing by	Fine
08/07/2021	09:25	59.2	60.8	57.0	0.2	Vehicle passing by	Cloudy
13/07/2021	13:21	61.5	63.6	58.2	0.2	Vehicle passing by	Fine
15/07/2021	09:33	64.7	66.2	60.4	0.2	Vehicle passing by	Cloudy
22/07/2021	09:30	60.1	61.7	57.4	0.2	Vehicle passing by	Fine
24/07/2021	08:35	63.8	65.7	60.0	0.2	Vehicle passing by	Cloudy
27/07/2021	16:34	62.5	64.6	58.4	0.2	Vehicle passing by	Fine
29/07/2021	09:25	59.4	60.9	56.3	0.2	Vehicle passing by	Cloudy

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		Noise Level dB (A)			Wind Speed	Major Noise Sources	Weather Condition
	Time (hh:mm)	$L_{eq(30min)}$	L ₁₀	L ₉₀	(m/s)		
03/07/2021	10:45	58.5	60.4	56.9	0.1	Vehicle passing by	Cloudy
06/07/2021	13:05	58.4	59.7	54.3	0.3	Vehicle passing by	Fine
08/07/2021	09:30	57.8	59.2	55.9	0.2	Vehicle passing by	Cloudy
13/07/2021	13.24	60.5	63.0	47.9	0.2	Vehicle passing by	Fine
15/07/2021	09:36	61.8	63.6	59.1	0.1	Vehicle passing by	Cloudy
22/07/2021	09:35	59.2	60.3	56.1	0.2	Vehicle passing by	Fine
24/07/2021	09:12	60.1	62.7	57.4	0.3	Vehicle passing by	Cloudy
27/07/2021	16:37	54.7	58.8	51.4	0.2	Vehicle passing by	Fine
29/07/2021	09:41	58.2	59.5	54.6	0.2	Vehicle passing by	Cloudy

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.

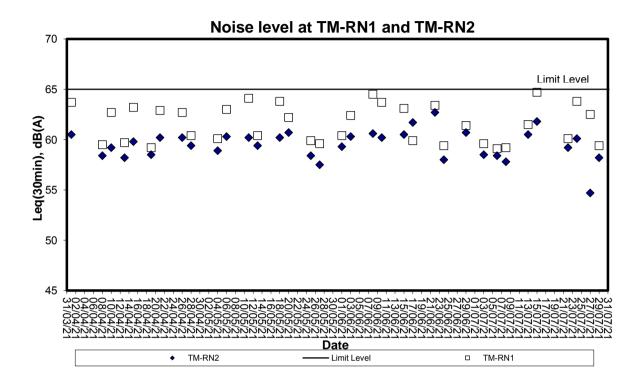


Appendix D3

Graphical Plots of Impact Noise Monitoring Data



Noise Monitoring (Day-time)





Appendix E

Weather Condition

	Mean Pressure	Ai	r Temperatu		Mean Dew	Mean Relative	Total Rainfall	Prevailing Wind	Mean Wind
Day	(hPa)	Absolute	Mean	Absolute	Point (deg. C)	Humidity (%)	(mm)	Direction (degrees)	Speed (km/h)
		Daily Max (deg. C)	(deg.C)	Daily Min (deg. C)					
1	***	32.4	30.3	29.2	25.9	78	0	200	29.6
2	***	32.8	30.6	29.3	26.1	77	0	220	28.5
3	***	33	30.4	29.1	26.3	79	0	200	20.5
4	***	33.2	30.4	28.9	26.3	79	0	130	11.3
5	***	33.8	30.2	28	26.2	79	2.3	80	24.8
6	***	32.7	29.4	26.7	25.6	80	18.4	90	20.4
7	***	33.1	29.4	26.6	25.8	81	11.7	130	28.9
8	***	32.8	29.8	28.4	25.7	79	1.5	130	19.8
9	***	34.8	30.5	28.2	25.6	76	0	110	7.2
10	***	34	30.5	28.2	25.8	76	0	100	12.6
11	***	33.6	30.6	28.8	26	77	0	110	11.6
12	***	34.8	30.9	28.7	25.8	75	0.1	150	12.3
13	***	35.3	31.1	28.8	25.2	72	0	200	8.6
14	***	34.1	30.7	29.1	25.7	75	1.5	130	8
15	***	35.4	31.3	28.9	25.3	71	0	160	10.9
16	***	30.9	29.6	28.7	25.3	78	0	70	8.1
17	***	31.2	28.8	26.9	25	80	0.2	80	19.7
18	***	28.8	26.9	24.9	25.1	90	42.4	70	32.7
19	***	27.9	26.5	25	25.1	93	117.2	90	42.8
20	***	27.1	26.2	25.3	25.2	94	87.8	90	32
21	***	27.8	26.8	25.3	25.7	94	28.4	100	25.1
22	***	32.8	29.3	26.9	25.3	80	0	60	12
23	***	34.1	30.3	27.4	25.8	77	0	240	16.4
24	***	33.2	29.8	26.5	26.4	82	26.5	240	16.4
25	***	33.6	29.6	25.9	25.8	81	8.9	230	18.8
26	***	33.9	30.7	28.7	26.4	78	0	240	19.9
27	***	35.3	31.3	29.5	26.4	75	0	240	20.2
28	***	34.1	30.8	29.1	26.8	79	0	240	27.9
29	***	32.3	29.5	28.3	26	82	7.8	230	12.3
30	***	30.5	28.8	26.5	25.7	83	7.9	230	15
31	***	32.2	29.7	27	26.6	84	16.9	230	31.2

Daily Extract of Meteorological Observations , July 2021 - Tuen Mun

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



Appendix F

Event-Action Plans

	Contractor	4 Rectify any unacceptable		 Submit proposals to remove actions to ICCE) 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 IC(E) within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate.
TY EXCEEDANCE	Ш	Notff. Contractor	2	 Confirm receipt of notification of failure in writing Notify the Contractor Ensure remedial measures properly implemented 		 Confirm receipt of notification of failure in writing Notify the Contractor Ensure remedial measures properly implemented
EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE ACTION	IC(E)	ŀ	 Check monitoring data submitted by the Ei Check contractor's working method 	 Check monitoring data submitted by the ET Leader Check the Contractor's working method Check the Contractor on possible Discuss with ET and Contractor on possible Discuss with ER and Contractor on possible Advise the ER on the effectiveness of the proposed remedial measures Supervise implementation of remedial measures 	LIMIT LEVEL	 Check monitoring data submitted by the ET Leader Check Contractor's working method Discuss with ET and Contractor on possible Discuss with eff and Contractor on possible Advise the ER on the effectiveness of the proposed remedial measures Supervise implementation of remedial measures
Ē	ET Leader		 Identify source, investigate the causes and propose remedial measures inform ER, IC(E) and Contractor Repeat measurement to confirm finding Increase monitoring frequency to daily 	 Identify source, investigate the causes of exceedance and propose remedial measures Inform IC(E) and Contractor Repeat measurements to confirm finding Increase monitoring frequency to daily Increase monitoring frequency to daily Increase monitoring frequency to daily Exceedance confirmes, arrange If exceedance confirmes, arrange If exceedance stops, cease additional 	6 Internet	 Identify source, investigate the causes of exceedance and propose remedial measures Inform ER, Contractor and EPD Repeat measurement to confirm inding Increase monitoring frequency to daily Assess the effectiveness of Contractor's remedial actions and keep ICE. EPD and ER informed of the results
EVENT			1. Exceedance for one sample	2. Exceedance for two or more consecutive samples		1. Exceedance for one sample



	Contractor	 Take immediate action to avoid further exceedances Submit proposals for remedial actions to ICCE) 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 exceedance is abated
ITY EXCEEDANCE	田	 Confirm receipt of notification of failure in writing Notify Contractor In consultation with the IC(E), alre ore with the Contractor on the remedial measures to be implemented Ensure remedial measures to implemented Ensure remedial measures to consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated
EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE	ACTION IC(E)	 Discuss amongst ER, ET and Contractor on the potential remedial actions Review Contractor's remedial actions Whenever necessary to assure their effectiveness and advise the ER accordingly Supervise the implementation of remedial measures
	ET l earler	 Identify source, investigate the causes of exceedance and propose remedial measures Notify IC(E), ER, EPD and Contractor Repeat measurement to confirm finding Repeat measurement to confirm finding Increase monitoring frequency to daily Carry out analysis of contractor's working procedures to determine possible mitigation to be implemented Arrange meeting with IC(E) and ER to discuss the remedial actions to be taken Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results If exceedance stops, cease additional monitoring
EVENT	I.,	2. Exceedance for two or more consecutive samples

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EVENT			ACTION	7			ť
		ET Leader	IC(E)		ER		Contractor
Action Level	-'diri + ui	Notify the IC(E) and the Contractor. Carry out investigation. Report the results of investigation to the IC(E) and the Contractor. Discuss with the Contractor and formulate remedial measures. Increase monitoring frequency to check mitigation effectiveness	 Review the analysed results submitted by the ET. Review the proposed remedial measures by the contractor and advise the ER accontrargy. Supervise the implementation of remedial measures. 	 Confirm failure In Require remedia analyse Ensure propertie 	Confirm receipt of notification of failure in writing. Notify the Contractor. Notify the Contractor to propose remedial measures for the analysed noise problem. Ensure remedial measures are properly implemented.	- ~	Submit noise mitigation proposals to IC(E). Implement noise mitigation proposals.
Level	v: v: v: v: v: v: v: v:	Notify the IC(E), the ER, the EPD and the Contractor. Identify source. Repeat measurement to confirm findings. Increase monitoring requency. 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 informed of the results for construction works stops, cease additional monitoring	 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 assure the ER accordingly. Suprevise the implementation of remedial measures. 	 Confirm failure i allure i Notify ti analyse Require analyse Ensure properte Fexcee Fexcee Nortrat are abated. 	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 propenty 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.	~ ~ ~ ~ ~ ~ ~	Take immediate action to avoid further exceedance Submit proposals for remedial actions to IC(E) within 3 working days of notification. Implement the agreed Resubmit proposals if problem still not under control. Stop the relevant activity of works as determined by the ER until the exceedances is abated.

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	IEC	 Check monitoring data submitted by ET Confirm FT assessment if 	exceedance is due / not due	3. Discuss with ET, ER and	Contractor on the mitigation	4. Review contractor's	mitigation measures	whenever necessary we ensure their effectiveness	and advise the ER	accordingly	• • • •	· sances					-	
<u>5</u>	\square						0											
r quality exceedan	ER	Notify EPD and other relevant governmental agencies in writing	Within 24 hours of the exceedance	Discuss with IEC, ET and Contractor on the proposed	mitigation measures;	Require contractor to propose remedial measures for the	analysed problem if related to the	construction works	property implemented	Assess the effectiveness of the	mitigation measure							
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EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE	Contractor	. Notify the ER and IEC in writing within 24 hours of identification of	exceedance Rectify unacceptable practice;			the identification of an	exceedance 5 Consider changes of working		the construction works niscrites with FT, IEC and ER and		IEC and ER if exceedance is due	to the construction works within 4	wurking udys or ruenumouon of	7. Implement the agreed mitigation	measures within reasonable time	scale		
E		<u> </u>	~		÷											Y		-
EVE		E 1 Leader Identify source(s) of impact; Reneat in-sitit measurement to		24 hours of identification of the	exceedance Chock monitoring data, all plant.	equipment and Contractor's		-		days of Idenuication of exceedance and advise	contractor if exceedance is due to		Discuss mit	Contractor it exceedance is use to the construction works within 4	working days			due to the construction works
		~	; (n'		ŕ	1	റ്ശ്					7.			ŝ		
Event		Action level	ph one	sampling day		فستفري				2 3		140000		1 C 197 M		1	Y - 1700 3	

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FOR WATER QUALIT		ER	1. Notify EPD and other relevant	governmental agencies in	writing within 24 hours of the	identification of the		2. Discuss with IEC, EI and	Contractor on the proposed	-	3. Require contractor to propose	remedial measures for the	analysed proplem it leaded to		4. Ensure remedial measures		5. Assess the effectiveness of	the mitigation measure																
EVENT AND ACTION PLAN FOR WATER QUALITY	ACTION	Contractor	. Notify IEC and ER in writing	within 24 hours of			-	equipment;	 Consider changes of working 	methods;	Submit the results of the	investigation to IEC and ER	within 3 working days of the	identification of an	-	Discuss with ET, IEC and ER	and propose mitigation	measures to IEC and ER	within 4 working days of	identification of an	exceedance	Implement the agreed	mitigation measures within	reasonable time scale										
		ETLeader	Identify s	2. Repeat in-situ measurement	to confirm findings	3. Notify Contractor in writing 2.	within 24 hours of 3	Identification	 Check monitoring data, all 4. 		methods;	-	Report the results of	investigation to the Contractor		identification of exceedance 6	and advise contractor if	exceedance is due to	contractor's construction	works	Discuss mitigation measures	Ē.	4 working of identification of	an exceedance	8. Ensure mitigation measures		Prepare to increase the	monitoring frequency to daily;	10. Repeat measurement on next	day of exceedance.				
Event			Action level	being	exceeded by	more than one	consecutive	sampling days																		2012-54039								



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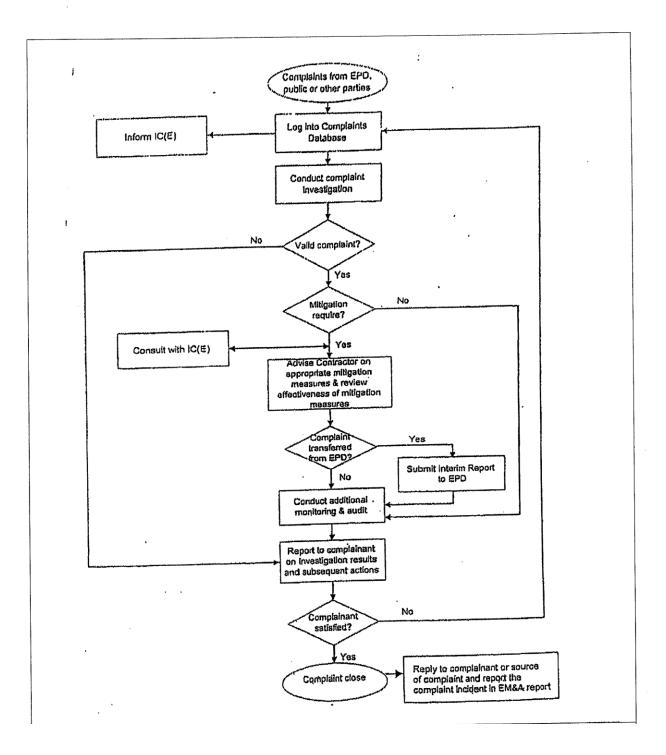
	-		
EC	Chock monitoring data	1	···
	ŀ	- ഗ് ഗ് ഗ്	
		Notity EPD and other relevant governmental agencies in dentification of exceedance Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Ensure remedial measures are properly implemented Assess the effectiveness of the implemented mitigation measures; Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit Level.	
z		പ്ര്യ്ഷ് പ്	
ACTION	Contractor	 Notify ER and IEC in writing within 24 hours of the identification of the exceedance and exceedance and exceedance all plant and equipment; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Submit the results of the investigation to IEC and ER within 3 working days of the identification of an exceedance Discuss with ET, IEC and ER within 4 working days of the identification measures within reasonable time scale As directed by the Engineer, to slow down or to stop all or porton actives. 	
	ET Leader	 Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Notify Contractor in writing within 24 hours of identification of the exceedance Check monitoring data, all plant, equipment and contractor's working methods; Carry out investigation Report the results of investigation to the Contractor within 3 working days of identification of exceedance and advise contractor if exceedance is due to contractor's construction with IEC, ER and Contractor; Biscue mitigation measures with IEC, ER and Contractor; Biscue mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance to daily until no exceedance to daily until no exceedance to daily until no exceedance to daily until no 	
		Limit Level being exceeded by more than one consecutive sampling days	



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Appendix G

Construction Programme

China Harbour - Zhen Hua Joint Venture Contract No. CV/2015/07 Handling of Surplus Public Fill (2016 -2018)

Three Months Rolling Programme for the Period from 1-June-2021 to 31-August-2021 (Supplementary Agreement No.4)

Item	Description	From	To	Jun-21	Jul-21	Aug-21
				1 2 3 4 5 5 7 8 7 10 11 11 12 13 14 15 16 17 10 10 20 11 22 23 26 25 26 27 29 29 30	1 Z J 4 S 6 T 8 9 10 11 12 10 11 12 10 11 15 16 17 18 9 18 21 20 11 12 10 11 15 16 17 18 18 28 21 21 21 21 21 25 25 25 27 28 28 38 34	1 Z 3 4 5 5 1 1 8 9 14 10 12 10 14 15 16 17 18 9 14 10 12 10 14 15 16 11 18 19 28 21 22 23 24 25 26 22 28 29 39 31
1	Section 1C	1-Jun-21	31-Aug-21			
	Operation of Fill Bank, surveillance system, tipping halls and recorder houses	I-Jun-21	31-Aug-21			
1.2	Operation of crushing plants	1-Jun-21	31-Aug-21			
1.3	Operation of the existing and expanded dewatering plants	1-Jun-21	31-Aug-21			
1.4	Collection and delivery of Public Fill from CWPFBP and MWPFRF to TKOFB	1-Jun-21	31-Aug-21			
1.5	Breaking up the incoming precast concrete units	1-Jun-21	31-Aug-21			
1.6	Carry out preliminary sorting on Public Fill and Delivery the pre- sorted Public to Staorage Area for 3RS Project	1-Jun-21	31-Aug-21			
2	Section 2C	I-Jun-21	31-Aug-21			
2,1	Operation of Fill Bank, surveillance system, tipping halls and recorder houses	1-Jun-21	31-Aug-21			
2.2	Breaking up the incoming precast concrete units	I-Jun-21	31-Aug-21			
2.3	Operation of crushing plants	1-Jun-21	31-Aug-21			
2.4	Operation of glass cullet storage compartment at Portion B7	1-Jun-21	31-Aug-21			
2.5	Carry out preliminary sorting on Public Fill and Delivery the pre- sorted Public to Staorage Area for 3RS Project	1-Jun-21	31-Aug-21			
3	Section 4B	1-Jun-21	31-Aug-21	PERFORMANCE AND AND AND AND AND AND AND AND AND AND		
	Collection and delivery of Public Fill to the Designated Reclamation Sites in the Mainland	1-Jun-21	31-Aug-21			



Appendix H

Weekly ET's Site Inspection Record

High Moderate Low

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Time

Weather

Humidity

Wind



8/7/21 Inspection Date : 15=00 : : Sunny / Fine / Cloud) / Overcast / Drizzle / Rain / Storm / Hazy : Calm / Light / Breeze / Strong Temperature 31° :

ΕT Contractor / Sub-Contactor CEDD Inspected by Signature: Mak Name: Silv-suply U.W. CHAN UW Mak Kei War Title E,



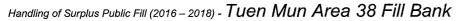
Environmental Checklist	Imple S	ment tages		Remark
	Yes		N/A	
Fugitive Dust Emission		0.14		
 Dust control / mitigation measures shall be provided to prevent dust nuisance. 	\checkmark]	
 Water sprays shall be provided and used to dampen materials. 	\checkmark			
 All stockpile of aggregate or spoil should be enclosed or covered and water applied in dry or windy condition. 	\checkmark			
 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. 	V			
 Unpaved areas should be watered regularly to avoid dust generation. 	\checkmark			
 The designated site main haul road shall be paved or regular watering. 	\checkmark			
The haul road inside the site and public road around the site entrance should be kept clean and free from dust.	\checkmark			
 Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site. 	\checkmark			
 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. 	√			
 Vehicle and equipment should be switched off while not in use. 				
 All plant and equipment should be well maintained e.g. without black smoke emission. 	√			
 Open burning should be prohibited. 	√			
 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). 	1			
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. 	1			
 Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works. 				
 Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials. 				
Air compressors and hand held breakers should have noise labels.	\checkmark			
Compressors and generators should operate with door closed.	√ -			
Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	\checkmark			
 Noisy equipment and mobile plant shall always be site away from NSRs. 				



		Imple	ment	ation	Remark
	Environmental Checklist	Yes	tages No	- N/A	
Wa	ter 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			
•	The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.	√			
	Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding.	\checkmark			
•	The material shall be properly covered to prevent washed away especially before rainstorm.	\checkmark			
•	The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.				
•	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.	√			· · · · · · · · · · · · · · · · · · ·
•	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.	√			
•	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.	√			
	Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided.	\checkmark			
	The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.				
	Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water.	\checkmark			
•	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.	√			
•	All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport.	√			
•	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.	√			
•	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.	√			
•	A waste collection vessel shall be deployed to remove floating debris.				
La	ndscape and Visual				
•	The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD.		ļ	<u> </u>	
•	Surface of outer slopes of the Fill Bank shall preferably be hydroseeded.		<u> </u>	<u> </u>	
	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 northem perimeter of the Site. The height of Casuarina equisetifolia was maintained at bleast 3m above soil level.	√			
•	Lighting shall be set to minimise night-time glare.	V			



Environmental Checklist		ement tages		Remark
	Yes	No	N/A	
Waste 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. 	√			
 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. 	√			
 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. 	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. 	V			
 Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials. 	\checkmark			
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. 	√			
 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 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. 	\checkmark			
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. 	V			
Be enclosed on at least 3 sides and securely closed.	\checkmark			
 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.	\checkmark			
Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary).	√			
Be arranged so that incompatible materials are adequately separated.	√			



Environmental Checklist				Remark
	Yes	No	N/A	
 Warning panels should be displayed at the waste storage area. 	1			
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.	√			
All generators, fuel and oil storage should be within bundle areas.	√			
Oil leakage from machinery, vehicle and plant should be prevented.	√			
 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.	√			
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. 	1			
Training of site personnel in proper waste management and chemical handling procedures should be provided.	\checkmark			
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.	√.			
Proper storage and site practices to minimise the potential for damage or contamination of construction materials.	√			
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.	√			
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.	√			
 Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors. 	√			
To encourage collection of aluminium cans by individual collectors.	1			
 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. 		s		
 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. 				

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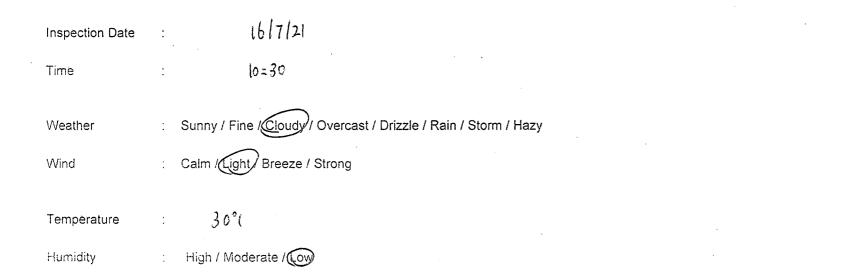
Summary of the Weekly Site Inspection:

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

Remark

	Name	Title	Signature	Date
Checked by	Guy Kong	ET Representative	G	08 July 2021
· · · · ·				





inspected by	CEDD	Contractor / Sub-Contactor	ET
Signature:	P	Aut	Mak
Name:	O.W. CHAN	5.12-144	Mak Lei War
Title	Low MM	Ehr Ihn	EJ



Environmental Checklist		ement Stages	*	Remark
	Yes		N/A	
ugitive Dust Emission				
 Dust control / mitigation measures shall be provided to prevent dust nuisance. 	- Provide Contract	√		Item 1
 Water 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. 	\checkmark			
 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. 	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. 	1	+		
 Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site. 	\checkmark			
 Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank. 				
 The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water. 	√			
 Vehicle and equipment should be switched off while not in use. 	√			
 All plant and equipment should be well maintained e.g. without black smoke emission. 	√			
Open burning should be prohibited.	\checkmark			
 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). 	1			
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. 	1			
 Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works. 	√			
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.	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.	1			
 Noisy equipment and mobile plant shall always be site away from NSRs. 	1		1	



Environmental Checklist				Remark
	Yes	tages 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. 	√			
 The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge. 	\checkmark			
 Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding. 	√			
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. 	√			
 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. 	\checkmark			
 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. 	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. 	√			
 Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided. 	√			
 The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities. 	√			
 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. 	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. 	√			
 Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer. 	√			
 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. 	√			
 A waste collection vessel shall be deployed to remove floating debris. 	√			
Landscape and Visual				
 The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD. 	\checkmark			
Surface of outer slopes of the Fill Bank shall preferably be hydroseeded.	√			
 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. 	√			
 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		ment		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. 	\checkmark				
 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. 	√.				
 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	Sillion)				
 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. 	√				
 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. 	√				
 The set-up of chemical waste storage area should 			Sec. 4		
 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. 	\checkmark				
 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. 	\checkmark			1	
 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				Remark
	Yes	Stages No	N/A	
Warning panels should be displayed at the waste storage area.	\checkmark			· ·
Waste storage area should be cleaned and maintained regularly.	√			
Chemical waste should be transported regularly by a registered chemical waste collector to a facility licensed to receive chemical waste.	\checkmark			
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. 	1			
 The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place. 	√			
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. 	\checkmark	-		
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.	\checkmark	1		
Proper storage and site practices to minimise the potential for damage or contamination of construction materials.	\checkmark			· · · · · · · · · · · · · · · · · · ·
The Environmental Permit should be displaced conspicuously on site.	\checkmark			
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. 	\checkmark	1		
 Chemical storage area provided with lock and located on sealed areas. 	\checkmark	1		
 All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank). 	\checkmark	1		
 Any unused chemicals or those with remaining functional capacity should be recycled. 	\checkmark			• • • • • •
 Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors. 	\checkmark			ναμήθεις Α _{ποδ} ητικής της της τη τη τη τη τη τη τη τη τη τη τη τη τη
To encourage collection of aluminium cans by individual collectors.	1			
 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. 	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
1.	Dust emission were observed near wet mud platform.	Provide water spray to control dust emission properly.	210716_001	Yes	23/07/2021

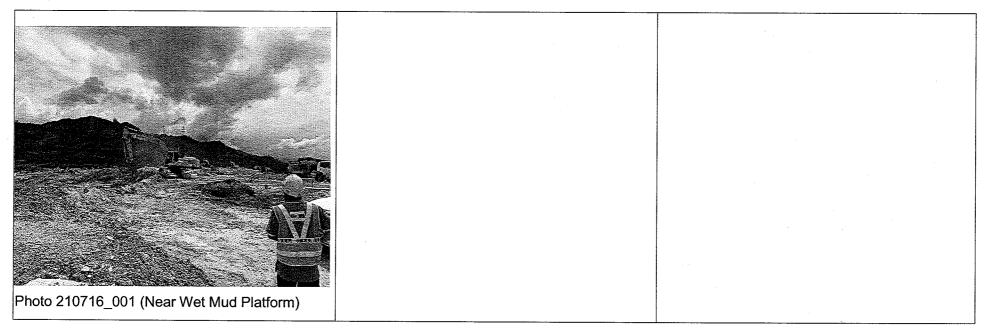
Remark

	Name	Title	Signature	Date
Checked by	Guy Kong	ET Representative	6	16 July 2021
		·····		

CEDD Contract No.: CV/2015/07 Handling of Surplus Public Fill (2016 – 2018) - **Tuen Mun Area 38 Fill Bank**



<u>Photo</u>



Handling of Surplus Public Fill (2016-2018) - Tuen Mun Area 38 Fill Bank



Inspection Date	:	22/7 121
Time	:	15-15
Weather	:	Sunny / Fine Cloudy / Overcast / Drizzle / Rain / Storm / Hazy
Wind	:	Calm / (ight) / Breeze / Strong
Temperature	:	31°(
Humidity	:	High / Moderate / Low

.

Inspected by	CEDD	Contractor / Sub-Contactor	ET
Signature:	12	day	
	Υ	A	Mak
Name:	C.k.Ly	Shr-Sleath	Mak Kei War
Title	ALAN	Emeltin	E,T



Environmental Checklist		ement Stages		Remark
	Yes		N/A	
Fugitive Dust Emission				
 Dust control / mitigation measures shall be provided to prevent dust nuisance. 	√			
 Water 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		-	
 Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting s tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and covered by a clean tarpaulin. 	side and √ shall be			
 Unpaved areas should be watered regularly to avoid dust generation. 	√			
The designated site main haul road shall be paved or regular watering.	√			
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.	1			
 Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank. 	√			
The temporary 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			
 All plant and equipment should be well maintained e.g. without black smoke emission. 	7			
Open burning should be prohibited.	√			
 Approval or exemption Non-road Mobile Machinery (NRMM) labels should be painted or securely fixed on regulated machines and n vehicles at a conspicuous position according to the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation Cap.311). 	on-road √ (APCO			
Noise Impact				
 The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be a 	adapted. $$			
 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. 	√			
 Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials. 	√			
Air compressors and hand held breakers should have noise labels.	√			
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 manual should be should be shut down between work periods or should be throttled down to a manual should be	inimum. √			
 Noisy equipment and mobile plant shall always be site away from NSRs. 	1			



Environmental Checklist				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. 	√				
The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.	\checkmark				
 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.	\checkmark				
 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. 	√				
 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. 	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. 	V				
 Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided. 	\checkmark				
 The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities. 	V			· · · · · · · · · · · · · · · · · · ·	
 Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water. 	\checkmark				
 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. 	√				
 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. 	\checkmark				
 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. 	V				
 A waste collection vessel shall be deployed to remove floating debris. 	\checkmark				
Landscape and Visual					
 The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD. 	\checkmark				
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. 	\checkmark				
 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. 	\checkmark				



Environmental Checklist		ement Stages		Remark	
Waste Management					
Construction Waste Management					
 Relevant licence / permits for disposal of construction waste or excavated materials available for inspection. 	\checkmark				
 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. 	\checkmark				
 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. 	1				
 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. 	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. 	\checkmark				
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. 	Ŋ				
 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 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.	√				
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.	√				
The set-up of chemical waste storage area should		e en el este el este el este el este el este el este el este el este el este el este el este el este el este el		E State	
Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition.	1	<u> </u>			
Be enclosed on at least 3 sides and securely closed.		<u> </u>			
 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.	\checkmark				
 Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary). 	\checkmark				
 Be arranged so that incompatible materials are adequately separated. 	\checkmark				



Environmental Checklist	Implementation Stages*			Remark
	Yes	No	N/A	1
Warning panels should be displayed at the waste storage area.	\checkmark			
Waste storage area should be cleaned and maintained regularly.	\checkmark	·····		· · · · · ·
Chemical waste should be transported regularly by a registered chemical waste collector to a facility licensed to receive chemical waste.	\checkmark			
 All generators, fuel and oil storage should be within bundle areas. 	\checkmark			
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. 	V			
The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place.				
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. 	\checkmark			
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.	\checkmark			
Construction noise permits should be posted at site entrance or available for site inspection.				
 Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. 	\checkmark			
Chemical storage area provided with lock and located on sealed areas.	$\overline{\mathbf{v}}$			
 All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank). 	\checkmark			
 Any unused chemicals or those with remaining functional capacity should be recycled. 	\checkmark			
 Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors. 	\checkmark			
To encourage collection of aluminium cans by individual collectors.	1			
 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. 	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
1.	Follow up action to item no.1 on /03/21, water sprays were provided.		210722_001	No	

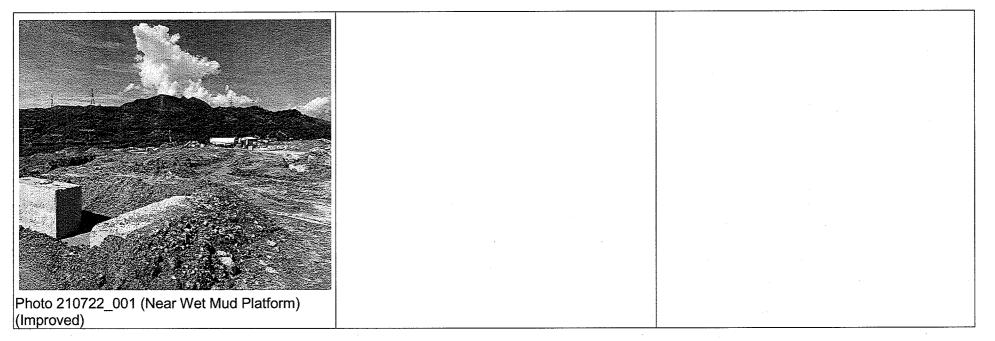
Remark

	Name	Title	Signature	Date
Checked by	Guy Kong	ET Representative		22 July 2021
		·		

Handling of Surplus Public Fill (2016 – 2018) - Tuen Mun Area 38 Fill Bank



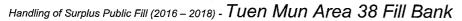
<u>Photo</u>





Inspection Date	:	29/7/21
Time	:	10=00
Weather	:	Sunny / Fine / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy
Wind	:	Calm /(Light)/ Breeze / Strong
Temperature	:	3 i°(
Humidity	:	High / Moderate / ow

CEDD	Contractor / Sub-Contactor	ET
	freet	Mak
	1	
G.W. CHAN	5. M. Sully	Male Kei Wai
[m]m	Gnelf	E.T
	CEDD L C. W. CHAN CM/M	C. W. CHAN S. N. SWAL





Environmental Checklist	•	ement Stages		Remark
	Yes		N/A	
Ugitive Dust Emission Dust control / mitigation measures shall be provided to prevent dust nuisance. 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. Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fittir tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, at covered by a clean tarpaulin. Unpaved areas should be watered regularly to avoid dust generation. The designated site main haul road shall be paved or regular watering. The haul road inside the site and public road around the site entrance should be kept clean and free from dust. Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site. Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank. The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water. Vehicle and equipment should be well maintained e.g. without black smoke emission. Open burning should be prohibited. Approval or exemption Non-road Mobile Machinery (NRMM) labels should be painted or securely fixed on regulated machines an vehicles at a conspicuous position according to the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulatic Cap.311).				
 Dust control / mitigation measures shall be provided to prevent dust nuisance. 	√			
 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. 	1			
	1			- Barran / - Badra
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. 	V			
	\checkmark			
The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.	1			
 Vehicle and equipment should be switched off while not in use. 	\checkmark			
	\checkmark			
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). 	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. 	\checkmark			
	V			
	1			
	√			
	√			
	\checkmark			
Noisy equipment and mobile plant shall always be site away from NSRs.	\checkmark			

Handling of Surplus Public Fill (2016 – 2018) - Tuen Mun Area 38 Fill Bank

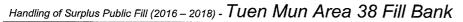


Environmental Checklist		ement		Remark
	Yes		N/A	
Water Quality				
 Drainage system and the sand / silt removal facilities should be adequate and well maintained to prevent flooding and overflow, especially after rain storms. 	1			
 The storm water intercepting system shall be effective to collect of runoff and remove suspended solids before discharge. 	√			
 Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding. 			-	
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. 	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. 	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. 	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.	\checkmark			
 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. 	1			
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 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			
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 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. 				
Landscape and Visual				
 The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD. 	. √			
 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. 	V			
Lighting shall be set to minimise night-time glare.				

Handling of Surplus Public Fill (2016 – 2018) - Tuen Mun Area 38 Fill Bank



Environmental Checklist		ement stages		Remark
	Yes	No	N/A	
Waste Management	- 1945			
Construction Waste Management				
 Relevant licence / permits for disposal of construction waste or excavated materials available for inspection. 	\checkmark			
 Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal. 	\checkmark			
 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. 	1			
 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, 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 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. 				
 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. 				
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. 				
Be enclosed on at least 3 sides and securely closed.	√			
 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. 	√			
 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.	√			



Environmental Checklist		ement Stages		Remark
	Yes		N/A	1
Warning panels should be displayed at the waste storage area.				
 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.	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. 	1			
 The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place. 	√			
Waste storage area should be cleaned and maintained regularly. Chemical waste should be transported regularly by a registered chemical waste collector to a facility licensed to receive chemical waste. All generators, fuel and oil storage should be within bundle areas. Oil leakage from machinery, vehicle and plant should be prevented. In the event of chemical waste / dangerous goods / chemicals spillage or leakage, the procedures as outlined in the Spillage Response Plan be followed. The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place. Dod Site Practices Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for collection and e disposal to an appropriate facility, of all wastes generated at the site. Training of site personnel in proper waste management and chemical handling procedures should be provided. 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 dr into the nearby environment. Proper storage and site practices to minimise the potential for damage or contamination of construction materials. The Environmental Permit should be displaced conspicuously on site. Construction noise permits should be posted at site entrance or available for site inspection. Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. Chemical storage area provided with lock and located on sealed areas. 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. Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors. To encourage collection of aluminium cans by individual collectors. Separate labelled bins should be provided to segregate this waste from other general refuse gene				
 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. 	\checkmark			· ·
 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.	_√			
 Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. 	\checkmark			
 Chemical storage area provided with lock and located on sealed areas. 	\checkmark			
 All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank). 	\checkmark			
 Any unused chemicals or those with remaining functional capacity should be recycled. 	\checkmark			
 Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors. 	\checkmark			
To encourage collection of aluminium cans by individual collectors.	1			
	V			
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			-

東業德勤測試顧問有限公司 ETS-TESTCONSULT LTD.

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	Guy Kong	ET Representative		29 July 2021

東業德勤測試顧問有限公司 ETS-TESTCONSULT LTD.



Appendix I

Implementation Schedule of Mitigation Measures



Environmental Mitigation Implementation Schedule

control / mitigation measures shall be provided to prevent dust nuisance. r sprays shall be provided and used to dampen materials. cxckpile of aggregate or soil should be enclosed or covered and water applied in dry or windy condition. ehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, hall be covered by a clean tarpaulin. ved areas should be watered regularly to avoid dust generation. lesignated site main haul road shall be paved or regular watering. ublic road around the site entrance should be kept clean and free from dust. emporary slope surfaces shall be covered with impermeable sheet or sprayed with water. le and equipment should be switched off while not in use. ant and equipment should be well maintained e.g. without black smoke emission. burning should be prohibited. oval or exemption Non-road Mobile Machinery (NRMM) labels should be painted or securely fixed on regulated machines and cad vehicles at a conspicuous position according to the Air Pollution Control (Non-road Mobile Machinery) (Emission) lation (APCO Cap.311). mpact approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be ted. well maintained plant should be operated on-site and plant should be serviced regularly during the construction works. ered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.	Location	Implementation Status						
Environmental Protection Measures		Implemented	Partially 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	\checkmark						
 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	\checkmark						
 Noisy equipment and mobile plant shall always be site away from NSRs. 	All areas							



Contract No.: CV/2015/07 Handling of Surplus Public Fill (2016-2019) - Tuen Mun Area 38 Fill Bank

	Location	Implementation 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	\checkmark					
 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	\checkmark					
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	\checkmark					
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	\checkmark					
 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	\checkmark					
• 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	\checkmark					
Waste Management							
Construction Waste Management							
Relevant licence / permits for disposal of construction waste or excavated materials available for inspection.	All areas	\checkmark					



Contract No.: CV/2015/07 Handling of Surplus Public Fill (2016-2019) - Tuen Mun Area 38 Fill Bank

		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			
•	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	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.	All areas				
•	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				
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	\checkmark			
•	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				
Tł	ne 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				
•	Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary).	Waste Storage Area	\checkmark			
•	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			



Contract No.: CV/2015/07 Handling of Surplus Public Fill (2016-2019) - Tuen Mun Area 38 Fill Bank

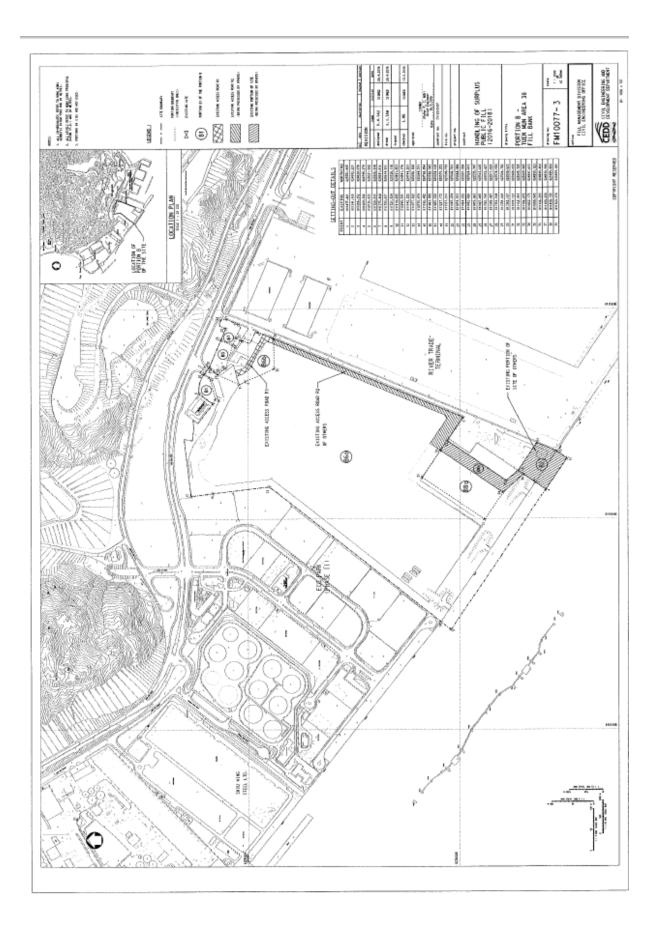
		Location	Implementati	on Status		
Environmental Protection Measures	5		Implemented	Partially implemented	Not implemented	Not Applicable
Waste storage area should be cleaned and maintained regularly.		Waste Storage Area	\checkmark			
Chemical waste should be transported by a registered chemical waste collector to a facili	y licensed to receive chemical waste.	All areas	\checkmark			
All generators, fuel and oil storage should be within bundle areas.		All areas	\checkmark			
Oil leakage from machinery, vehicle and plant should be prevented.		All areas	\checkmark			
 In the event of chemical waste / dangerous goods / chemicals spillage or leakage, th Response Plan should be followed. 	e procedures as outlined in the Spillage	All areas	\checkmark			
• The dangerous goods / chemical spillage or leakage procedures (including equipments) s	hould be in place.	All areas	\checkmark			
Good Site Practices						
Nomination of approved personnel, such as site manager, to be responsible for good s and effective disposal to an appropriate facility, of all wastes generated at the site.	ite practices, arrangements for collection	All areas	\checkmark			
Training of site personnel in proper waste management and chemical handling procedure	s should be provided.	All areas	\checkmark			
Good site practices should be adopted to clean the rubbish and litter on a regular basis s dropping into the nearby environment.	o as to prevent the rubbish and litter from	All areas	\checkmark			
Proper storage and site practices to minimise the potential for damage or contamination of	of construction materials.	All areas	\checkmark			
The Environmental Permit should be displaced conspicuously on site.		Site Entrance	\checkmark			
Construction noise permits should be posted at site entrance or available for site inspecti	on.	Site Entrance				
 Plan and stock construction materials carefully to minimise amount of waste generate waste. 	ed and avoid unnecessary generation of	All areas	\checkmark			
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	√			
Any unused chemicals or those with remaining functional capacity should be recycled.		All areas	\checkmark			
Regular cleaning and maintenance programme for waste storage area, drainage systems	, silt traps, sumps and oil interceptors.	All areas	\checkmark			
To encourage collection of aluminium cans by individual collectors, separate labelled by waste from other general refuse generated by the workforce.	ins should be provided to segregate this	All areas	\checkmark			
 A recording system for the amount of wastes generated, recycled and disposed (includir trip ticket system for chemical waste disposal. Quantities could be determined by weighin 	g the disposal sites) should be used, e.g. g each load or other suitable methods.	All areas	\checkmark			
 A collection area should be provided where waste can be stored and loaded prior to ren area is preferred to reduce the occurrence of 'wind blown' light material. If an open loading/unloading of wastes, then the area should be bunded and all the polluted surfac be diverted into wastewater treatment system. 	area is unavoidable for the storage or	All areas	√			
Remove wastes in a timely manner.		All areas	\checkmark			



Appendix J

Site General Layout plan







Appendix K

Monthly Summary Waste Flow Table

		Actual Quantitie	es of Inert C&I	O Materials Gene	erated Monthly		Actual Quantities of C&D Wastes Generated Monthly					
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	0	0	0	0	78.83	
Feb	0	0	0	0	0	0	0	0	0	0	45.73	
Mar	0	0	0	0	0	0	0	0	0	0	96.48	
Apr	0	0	0	0	0	0	0	0	0	0	152.63	
May	0	0	0	0	0	0	0	0	0	0	127.55	
Jun	0	0	0	0	0	0	0	0	0	3.4	116.35	
Sub-total	0	0	0	0	0	0	0	0	0	3.4	617.57	
Jul	0	0	0	0	0	0	0	0	0	0	72.7	
Aug												
Sep												
Oct												
Nov												
Dec												
Total												

Monthly Summary Waste Flow Table for 2021

Notes: (1) The performance targets are given in PS Clause 1.110(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.



Appendix L

Monitoring Schedule for the Coming Month

Contract No. CV/2015/07 Handling of Surplus Public Fill (2016-2019) 武顧問有限公司 Tuen Mun 38

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

August 2021

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
25-Jul	26-Jul	27-Jul	28-Jul	29-Ju			31-Jul
		1-hr TSP x 1 NM	Weekly SI (pm)	24-hr TSP 24-hr RSP NM		1-hr TSP x 2	
		WQM Mid-flood (09:30-11:00) Mid-ebb (15:30-17:00)	, u ,	WQM Mid-flood (09:00-10:30) Mid-ebb (14:30-16:00)		WQM Mid-flood (10:30-12:00) Mid-ebb (16:30-18:00)	
1-Aug	2-Aug	3-Aug	4-Aug	5-Aug	g 6-Aug		7-Aug
		1-hr TSP x 1 NM WQM	24-hr TSP 24-hr RSP	1-hr TSP x 2 NM Weekly SI (pm) WQM		1-hr TSP x 1 WQM	
8-Aug	9-Aug	Mid-ebb (09:30-11:00) Mid-flood (15:00-16:30) 10-Aug	11-Aug	Mid-ebb (09:00-10:30) Mid-flood (15:00-16:30) 12-Aug	g 13-Aug	Mid-ebb (10:30-12:00) Mid-flood (17:00-18:30)	14-Aug
	ŭ	24-hr TSP 24-hr RSP		1-hr TSP x 2 NM	<u> </u>	1-hr TSP x 1	
		NM WQM Mid-flood (08:30-10:00) Mid-ebb (13:00-14:30)		Weekly SI (pm) WQM Mid-flood (09:30-11:00) Mid-ebb (14:00-15:30)		WQM Mid-flood (09:00-10:30) Mid-ebb (15:00-16:30)	
15-Aug	16-Aug	17-Aug	18-Aug	19-Au	g 20-Aug		21-Aug
	24-hr TSP 24-hr RSP	1-hr TSP x 1 NM WQM Mid-ebb (08:30-10:00) Mid-flood (14:30-16:00)		1-hr TSP x 1 NM Weekly SI (pm) WQM Mid-ebb (10:00-11:30) Mid-flood (16:00-17:30)		1-hr TSP x 1 WQM Mid-ebb (09:30-11:00) Mid-flood (17:00-18:30)	
22-Aug	23-Aug	24-Aug	25-Aug	26-Aug	g 27-Aug	(28-Aug
24-hr TSP 24-hr RSP		1-hr TSP x 2 NM Weekly SI (pm) WQM Mid-flood (08:30-11:00) Mid-ebb (13:30-15:00)		1-hr TSP x 1 NM WQM Mid-flood (09:00-10:30) Mid-ebb (14:30-16:00)		24-hr TSP 24-hr RSP WQM Mid-flood (10:00-11:30) Mid-ebb (16:00-17:30)	
29-Aug	30-Aug	31-Aug					
		1-hr TSP x 2 NM WQM Mid-ebb (08:30-10:00)					
		(08.30-10.00) Mid-flood (13:30-15:00)					



Appendix M

Reporting Month Monitoring Schedule



Contract No. CV/2015/07 Handling of Surplus Public Fill (2016-2018) Tuen Mun 38

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

July 2021

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27-Jun	28-Jun	29-Jun	30-Jun	1-Jul	2-Jul	3-Jul
		24-hr TSP 24-hr RSP NM				1-hr TSP x 3 NM
	WQM		WQM		WQM	
	Mid-flood		Mid-flood		Mid-ebb	
	(09:30-11:00) Mid-ebb		(10:00-11:30) Mid-ebb		(08:00-09:30) Mid-flood	
	(15:00-16:30)		(15:00-16:30)		(13:30-15:00)	
4-Jul	5-Ju	6-Jul	7-Jul	8-Jul	9-Jul	10-Jul
	24-hr TSP 24-hr RSP	1-hr TSP x 1 NM		1-hr TSP x 1 NM		1-hr TSP x 1
				Weekly SI (pm)		
		WQM Mid-ebb		WQM Mid-ebb		WQM Mid-ebb
		(09:00-10:30)		(10:00-11:30)		(10:30-12:00)
		Mid-flood		Mid-flood		Mid-flood
11-Jul	12-Ju	(15:30-17:00) 13-Jul	14-Jul	(16:30-18:00) 15-Jul	16-Jul	(18:00-19:30) 17-Jul
24-hr TSP 24-hr RSP		1-hr TSP x 2 NM			Weekly SI (am)	24-hr TSP 24-hr RSP
		WQM Mid-flood (08:30-10:00) Mid-ebb (13:30-15:00)		WQM Mid-flood (09:30-11:00) Mid-ebb (14:30-16:00)		WQM Mid-flood (10:00-11:30) Mid-ebb (16:00-17:30)
18-Jul	19-Ju	20-Jul	21-Jul	22-Jul	23-Jul	24-Jul
		1-hr TSP x 2		NM Weekly SI (pm)	24-hr TSP 24-hr RSP	1-hr TSP x 2 NM
	WQM Mid-ebb (09:00-10:30) Mid-flood (14:30-16:00)		WQM Mid-ebb (09:30-11:00) Mid-flood (15:30-17:00)		WQM Mid-ebb (10:00-11:30) Mid-flood (16:30-18:00)	
25-Jul	26-Ju	27-Jul	28-Jul	29-Jul	30-Jul	31-Jul
		1-hr TSP x 1 NM		24-hr TSP 24-hr RSP NM Weekly SI (am)		1-hr TSP x 2
		WQM Mid-flood (09:30-11:00) Mid-ebb (15:30-17:00)		WQM Mid-flood (09:00-10:30) Mid-ebb (14:30-16:00)		WQM Mid-flood (10:30-12:00) Mid-ebb (16:30-18:00)



Appendix N

QA/QC Results of Laboratory Analysis



QA/QC Results of Laboratory Analysis of Total Suspended Solids

	QC Sample Analysis	Sample Duplicate		Sample Spike	
Sampling Date	% Recovery *	Sample ID	% Error [#]	Sample ID	% Recovery [@]
	104.9	FC1-S	6.90	FM2-M	101.1
	106.1	FM2-B	4.94	EM1-S	89.6
2021/7/2	105.0	EM1-M	0.00	EC2-B	94.8
	105.3	FC1-S	1.90	FM2-M	109.3
	104.0	FM2-B	1.27	EM1-S	102.8
2021/7/6	108.7	EM1-M	1.17	EC2-B	91.5
	97.2	FC1-S	9.09	FM2-M	103.3
	92.3	FM2-B	3.77	EM1-S	98.9
2021/7/8	101.2	EM1-M	5.71	EC2-B	96.1
	104.1	FC1-S	3.02	FM2-M	86.6
	94.7	FM2-B	1.06	EM1-S	108.2
2021/7/10	103.7	EM1-M	1.29	EC2-B	97.6
202 11110	107.6	FC1-S	4.51	FM2-M	85.1
	104.4	FM2-B	2.20	EM1-S	103.6
2021/7/13	106.1	EM1-M	4.88	EC2-B	104.4
202 11/10	109.5	FC1-S	3.23	FM2-M	101.9
	104.3	FM2-B	1.92	EM1-S	105.6
2021/7/15	106.7	EM1-M	3.77	EC2-B	104.6
202 11110	107.8	FC1-S	3.45	FM2-M	98.9
	105.4	FM2-B	4.79	EM1-S	103.0
2021/7/17	106.2	EM1-M	2.51	EC2-B	105.5
202 11111	108.0	FC1-S	1.94	FM2-M	87.3
	106.3	FM2-B	2.76	EM1-S	97.6
2021/7/19	108.1	EM1-M	0.92	EC2-B	96.4
2021/1/13	104.2	FC1-S	0.59	FM2-M	94.8
	104.4	FM2-B	4.94	EM1-S	108.7
2021/7/21	102.4	EM1-M	0.57	EC2-B	93.5
202 1112 1	103.3	FC1-S	3.51	FM2-M	91.2
	102.1	FM2-B	8.00	EM1-S	98.8
2021/7/23	102.7	EM1-M	3.77	EC2-B	100.8
202 1/1/20	102.7	FC1-S	4.84	FM2-M	90.6
	103.5	FM2-B	0.63	EM1-S	96.7
2021/7/27	105.5	EM1-M	0.00	EC2-B	100.3
	100.1	FC1-S	0.00	FM2-M	105.5
	101.9	FM2-B	0.76	EM1-S	103.2
2021/7/20	102.9	EM1-M	1.31	EC2-B	103.2
2021/7/29	101.0	FC1-S	4.35	FM2-M	98.8
	105.7	FM2-B	6.59	EM1-S	90.3
2021/7/31	104.5	EM1-M	3.23	EC2-B	90.3

Note: (*)% Recovery of QC sample should be between 80% to 120%. ([#])% Error of Sample Duplicate should be between -10% to 10%. ([@])% Recovery of Sample Spike should be between 80% to 120%.



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

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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 路有很多泥頭車出入,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; 	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



Figures



