

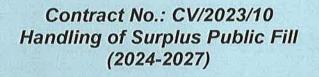
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TEST REPORT



China Harbour Engineering Co Ltd



TSEUNG KWAN O AREA 137 FILL BANK

MONTHLY EM&A REPORT NO.04

(NOVEMBER 2024)

LAU, Wing Sum

Prepared by:

Environmental Officer

Checked by:

LAU, Chi Leung Environmental Team Leader

Issue Date: 05 December 2024

Report No.: ENA46866

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UMWELT CONSULTING LIMITED

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By Post

Our Ref : P231104-EMA-TKOFB-202411-V Date : 6th December 2024

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

Attn: Mr. LAU Chi Leung

Environmental Permit (EP) No. EP-134/2002/Q Fill Bank at Tseung Kwan O Area 137 Monthly EM&A Report for November 2024

Dear Sir,

Pursuant to Condition 3.4 of Environmental Permit (EP) No. EP-134/2002/Q, please note the report *"Tseung Kwan O Area 137 Fill Bank Monthly EM&A Report No. 04 (November 2024)"* dated 5 December 2024 submitted under the EP, certified by the Environmental Team Leader on 5 December 2024, had been reviewed and is hereby verified.

Should you have any query, please feel free to contact the undersigned at 3756 9590 or ivanting@umwelt.consulting .

Your faithfully, For and on behalf of: Umwelt Consulting Limited

Ting Po Chung Ivan Independent Environmental Checker



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ENA46866 Monthly EM&A Report No.04

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ENA46866 Monthly EM&A Report No.04

東業德勤測試顧問有限公司 ETS-TESTCONSULT LTD.

EXECUTIVE SUMMARY

This monthly Environmental Monitoring and Audit (EM&A) report No.04 was prepared by ETS-Testconsult Ltd (ET) for "Contract No: CV/2021/09 – Handling of Surplus Public Fill (2022-2023) – Tseung Kwan O (TKO) Area 137 Fill Bank" (The Project) and "Contract No: CV/2023/10 – Handling of Surplus Public Fill (2024-2027) – Tseung Kwan O (TKO) Area 137 Fill Bank" (The Project).

This report documented the findings of EM&A Works conducted during the operation phase of Fill Bank at TKO Area 137 in November 2024.

Site Activities

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

- 1. Operation of the Public Fill Reception Facilities at Tseung Kwan O Fill Bank (TKOFB);
- 2. Operation of dewatering plant at TKOFB;
- 3. Operation and Maintenance of Artificial Intelligent System for Crushing Number 2, 3 and 4 (Model QJ241) at TKOFB;
- 4. Operation of the Integrated Public Fill Reception (Fixed Rigid Platform) at TKOFB;
- 5. Operation and maintenance of Wheel Washing Bays and Facilities at TKOFB;
- 6. Operation and Maintenance of the Wash House at TKOFB;
- 7. Personnel Position Tracking and Proximity Detection System of Moving Plant at TKOFB;
- 8. Operation and Maintenance a Digital Works Supervision System (DWSS) for TKOFB;
- 9. Maintenance of the Drainage Systems at TKOFB;
- 10. Operation and Maintenance of crushing plants at TKOFB;
- 11. Delivery of Public Fill to Taishan at TKOFB;
- 12. Construction of Gabion Wall at TKOFB;
- 13. Implementation of C Easy system at TKOFB (Phase 1)
- 14. Carry out GCO Probe test and SRT
- 15. Operation of recycling public fill as blanket layer material of reclamation projects
- 16. PMI No. 94 Post Geotechnical Monitoring at TKOFB
- 17. Construction of concrete access road to fixed rigid platform

Environmental Monitoring Progress

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

- Noise Monitoring (Day-time): 1 Occasion at 1 designated location
- 24-hour TSP Monitoring: 5 Occasions at 2 designated locations
- 1-hour TSP Monitoring: 16 Occasions at 2 designated locations
- Marine Water Quality Monitoring: 13 Occasions at 2 designated locations
- Weekly-site inspection: 4 Occasions

Noise Monitoring

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

Air Monitoring

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

Marine Water Quality Monitoring

According to the summary of marine water monitoring results, no exceedance of Action and Limit levels was recorded in this reporting period.

Weekly Site Inspections

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 summons or successful prosecutions with respect to environmental issues was received in this reporting period.

Future Key Issues

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

- Noise and air quality impact due to site works;
- Maintain wheel washing facilities properly;
- Maintain all drainage and desilting facilities properly;
- Use and maintain silt curtain properly;
- Clean up the fill material on concrete pavement along the BHA frequently;
- Sufficient drip trays for all oil drums / chemical containers;
- Implement all necessary preventive measures to avoid oil leakage. In the event an oil leakage happens, the Contractor should properly remove the leaked oil and handle the contaminated soil and all materials using for this cleaning works as chemical waste;
- Maintain good site practice and waste management to minimize environmental impacts at the site; and
- Follow-up improvements on waste management issues.

1.0 INTRODUCTION

China Harbour Engineering Co Ltd (CHEC) appointed Environmental Team (ET) of ETS-Testconsult Limited (ETL) to undertake the Environmental Monitoring and Audit (EM&A) for the "Contract No: CV/2023/10 –Handling of Surplus Public Fill (2024-2027) – Tseung Kwan O (TKO) Area 137 Fill Bank" (The Project)".

In accordance with the Environmental Permit (No.: EP-134/2002/Q) (the EP), an EM&A programme should be implemented in accordance with the procedures and requirements in the EM&A Manual of the approved EIA report (Registration No. AEIAR-060/2002). The EM&A programme for this study as stated in Section 2.3.1 of the EM&A Manual covers the following environmental aspects during the establishment, operation and removal phases of the Fill Bank at Tseung Kwan O Area 137:

- Fugitive Dust;
- Noise generation from onsite activities;
- Water Quality; and
- Landscape and Visual.

The EM&A programme requires environmental monitoring for air quality, noise and water quality and environmental site inspections for air quality, noise, 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 period and the next reporting period;
- Action and Limit levels for all environmental parameters;
- Event/Action Plans;
- Environmental mitigation measures, as recommended in the Project EIA study final report; and
- Environmental requirements in contract documents.

Baseline monitoring was completed in August and October 2002 by MateriaLab. 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 Tseung Kwan O Area 137 in November 2024.

2.0 **PROJECT INFORMATION**

2.1 Scope of the Project

The scale and scope of the Project as stated in the EP include:

- Site clearance;
- Construction of a temporary storm water system;
- Stockpiling of 6 million m³ of public fill;
- Setting up two barging points: one at the TKO Basin and one at the Construction and Demolition Material Sorting Facility (C&DMSF) for transporting the stockpiled public fill by barges;
- Setting up a temporary barging point at the existing Explosive Off-loading Barging Point located in the south-eastern part of Area 137 for the month of May 2004 to December 2004 for transporting the stockpiled public fill by barge;
- Construction and operation of a Construction and Demolition Material Sorting Facility (C&DMSF);
- Setting up a Construction and Demolition Material Crushing Facility at the TKO Basin; and
- Remove the temporary fill bank.

2.2 Site Description

TKO Area 137 Fill Bank is located at the southern end of Wan Po Road. In the vicinity of the site are other industrial uses such as SENT landfill, TKO Industrial Estate, etc. Both Island Resort and Fullview Garden are also situated at more than 1.8km from the site. Other existing Air Sensitive Receivers (ASRs) and Noise Sensitive Receivers (NSRs), including resident developments and schools, are located at a further distance away from TKO Area 137.

2.3 Work Programme

Details of work programme are shown in Appendix G.

2.4 Project Organization and Management Structure

The project organization chart is shown in Appendix A.

2.5 Contact Details of Key Personnel

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

Table 2.1	Contact Details of Key	/ Personnel
	Contract Dotallo of 100	

Organization	Name of Key Staff	Project Role	Tel. No.	Fax No.	
CEDD	Mr. C W Au Yeung, Andrew Cheung	Engineer's Representative	2623 9267 / 2762 5588	2714 0113	
IEC (Umwelt) Mr. Ivan Ting		IEC	3756 9590	3582 3310	
Contractor (CHZH-JV) Zhou Chang Ying		Senior Project Manager	9626 6299	2247 4108	
ET (ETL)	C. L. Lau	ET Leader	2946 7791	2695 3944	

3.0 WORK PROGRESS IN THIS REPORTING PERIOD

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

- 1. Operation of the Public Fill Reception Facilities at Tseung Kwan O Fill Bank (TKOFB);
- 2. Operation of dewatering plant at TKOFB;
- 3. Operation and Maintenance of Artificial Intelligent System for Crushing Number 2, 3 and 4 (Model QJ241) at TKOFB;
- 4. Operation of the Integrated Public Fill Reception (Fixed Rigid Platform) at TKOFB;
- 5. Operation and maintenance of Wheel Washing Bays and Facilities at TKOFB;
- 6. Operation and Maintenance of the Wash House at TKOFB;
- 7. Personnel Position Tracking and Proximity Detection System of Moving Plant at TKOFB;
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- 15. Operation of recycling public fill as blanket layer material of reclamation projects
- 16. PMI No. 94 Post Geotechnical Monitoring at TKOFB
- 17. Construction of concrete access road to fixed rigid platform

4.0 AIR QUALITY MONITORING

4.1 Monitoring Requirement

TSP levels were monitored in the reporting period in accordance with the EM&A Manual. Table 4.4 shows the Action and Limit Levels for the environmental monitoring works.

4.2 Monitoring Equipment

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

able 4.1 Air Quality	/ Monitoring Equipment
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Equipment	Model and Make
HVS	Graseby 105, Andersen G1051
Calibrator	Tisch TE-5025A

Та

4.3 Monitoring Parameters, Frequency and Duration

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

Table 4.2	Monitoring parameters,	duration .	f	·	مصاحبه المعرم مصادر المالي مرا	
	Monitoring parameters	ouration	irequency	/ 01 alr 0	JUAIITY MONITORING	1
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Parameter	Duration	Frequency
24-hr TSP	TSP 24 hr Once every six days	
1-hr TSP 1 hr Three		Three times per every six days

4.4 **Monitoring Locations**

Due to the operation of the SENTX Landfill Extension and Tseung Kwan O Desalination Plant, the ET started monitoring events at location TKO-A3 and TKO-A4 from 01 August 2024.

Table 4.3 tabulates the air quality monitoring locations of this project.

	Table 4.3	Air quality monitoring locations	3
Monitoring station		Monitoring station	Location
		TKO-A1	Site Egress
		TKO-A2a	CREO
TKO-A3		TKO-A3	A4 Gabion Wall
		TKO-A4	TKO Desalination Plant

Table 1.2 Air quality manitaring lagotions

4.5 Monitoring Methodology

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

Instrumentation

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

Installation

The installation of HVS refers to the requirement stated in EM&A Manual.

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 was indicated on the flow rate chart.
- For TSP sampling, fiberglass filters (Whatman G653) 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 month of 1 hour or 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 desiccator for 24 hour with the temperature of 25°C <u>+</u> 3°C and the relative humidity (RH) <50% <u>+</u>5%.
- All measurement procedures in Section 2.3 of the EM&A Manual were followed during the reporting period.

Maintenance & Calibration

- 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 (wind speed and wind direction) were directly extracted from Tseung Kwan O Station of Hong Kong Observatory. All wind data during this reporting period are shown in Appendix E.

4.6 Action and Limit Levels

Table 4.4 shows the Action and Limit levels for 24-hr TSP and 1-hr TSP monitoring.

Monitoring Logotion	24-hr TSP (µg/m³)		1-hr TSP (μg/m³)	
Monitoring Location	Action Level	Limit Level	Action Level	Limit Level
TKO-A1	210	260	376	500
TKO-A2a *	210	260	376	500
TKO-A3	210	260	376	500
TKO-A4	210	260	376	500

Table 4.4Action and Limit Levels for 24-hr TSP and 1-hr TSP

Remark (*): Since dust monitoring stations TKO-A2 and TKO-A2a are located close to the major dust emission sources and also close to the same sensitive receptor and no significant difference between them on the prevailing meteorological conditions, the baseline data from TKO-A2 (August and September 2002 by MateriaLab) can also be valid in the case of TKO-A2a.

4.7 Event-Action Plans

Please refer to Appendix F for details.

4.8 Results and Observation

4.8.1 1-hour and 24-hour TSP Monitoring results

Monitoring data of both 1-hour and 24-hour TSP monitoring carried out in this reporting period are summarized in Appendix B2. Graphical presentation of 1-hour and 24-hour TSP monitoring results for the reporting period is shown in Appendix B3. Wind data included wind speed and wind direction was extracted from Tseung Kwan O Station of Hong Kong Observatory during this reporting period and is presented in Appendix E.

No exceedance of Action and Limit Level of 1-hr TSP and 24-hour TSP monitoring results was recorded during the reporting period.

The monitoring results for 1-hour TSP and 24-hour TSP are summarized in Table 4.5 and 4.6 respectively.

Monitoring Location	Average (μg/m3)	Range (μg/m3)	Action Level (μg/m3)	Limit Level (µg/m3)	
TKO-A1	248	222-268			
TKO-A2a	251	224-271	376 500	500	
TKO-A3	112	94-130		500	
TKO-A4	105	87-125			

Table 4.5Summary of 1-hr TSP monitoring results



Table 4.6	Su	mmary of 24-hr TSP	monitoring results		
Monitoring Location		Average (µg/m3)	Range (µg/m3)	Action Level (μg/m3)	Limit Level (µg/m3)
TKO-A1		145	122-158		
TKO-A2a		147	123-159	210	260
TKO-A3		50	41-65	- 210 260	200
TKO-A4		46	35-60		

4.8.2 Observation

Generally, the Contractor implemented sufficient dust mitigation measures, including operation of the mist spraying systems at the CEDD Combined Reception Office and crushing plants. And the site egress area provided wheel washing facilities; Road dampening, water bowsers and automatic water sprinklers on the main haul roads. Other dust sources near TKO Area 137 also included operation of the temporary Construction Waste Sorting Facilities (CWSF) and dumping activities at the SENT Landfill.

5.0 Noise Monitoring

5.1 Monitoring Requirements

Noise monitoring was conducted at 1 monitoring station as specified in the approved EM&A Monitoring Proposal for good site practice. The equipment, parameter, frequency, duration, methodology, calibration details, results and observations of the noise monitoring for the reporting period are presented in this section.

5.2 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 5.1 summarizes noise monitoring equipment model being used. A copy of the calibration certificate for noise meter and calibrator are attached in Appendix C1

 Table 5.1
 Noise Monitoring Equipment

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

5.3 Monitoring Parameters, Duration and Frequency

Duration, frequencies and parameters of noise measurement are presented in Table 5.2.

Table 5.2 Duration, Frequencies and Parameters of Noise Monitoring

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

5.4 Monitoring Locations

One Noise monitoring was conducted at the noise monitoring location, TKO-N1 as shown in Figure 2 during the reporting period. Table 5.3 describes the location of the monitoring station.

 Table 5.3
 Noise Monitoring Location

Monitoring station	Location	Type of Measurement
TKO-N1	Outside site Egress along Wan Po Road	Free Field

5.5 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 mins
- 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.
- 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.

5.6 Action and Limit Levels

The Action and Limit levels for noise levels derived as illustrated in Table 5.4.

Table 5.4Action and Limit Levels for noise monitoring

Time Period	Action	Limit
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A)

5.7 Event-Action Plans

Please refer to the Appendix F for details.

5.8 Results and Observation

5.8.1 Results

Only Day-time noise monitoring was carried out at monitoring station TKO-N1 in this reporting period. The detail of the noise monitoring is provided in Appendix C2. Graphical presentation of the monitoring result for the reporting period is shown in Appendix C3.

Since no documented complaints on noise issue were 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 monitoring.

5.8.2 Observation

The major noise source during the monitoring event was the dump truck traffic and crushing plant.

6.0 MARINE WATER QUALITY MONITORING

6.1 Monitoring Requirements

In accordance with the EM&A Manual, 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 Control Station, C1 & C1a and Monitoring Station, M4 & M4a & M5.

6.2 Monitoring Locations

For the Reclamation Project, there were 4 Designated Monitoring Stations and 2 Designated Control Stations specified in the EM&A Manual. Upon the completion of the monitoring programme under Stage 2 reclamation works, the ET started monitoring events at the impact station M4 and the control station C1 from 18 May 2004 onwards.

Figure 1 shows the location of the marine water quality monitoring stations. Table 6.1 describes the locations of the monitoring stations in the reporting period.

Table 6.1	Locations of Marine Water Monitoring Stations
-----------	---

Station Description	Code	HK Metric Grid E	HK Metric Grid N
Control Station (Ebb tide)	TKO-C1	844 740.208	815 371.502
Monitoring Station, Tung Lung Chau Fish Culture Zone	TKO-M4	847 741.029	812 977.878

Due to "Hong Kong International Airport, Three Runway System Project Contract 3206 – Main Reclamation Works "(3RS project) operation of the additional barging point at TKO Area 137, the ET started monitoring events at the impact station M4a, M5 and the control station C1a from 14 May 2018 onwards. The water quality survey/monitoring frequency and parameters at stations C1a, M4a and M5 shall be same as the requirements set out in the EM&A Manual and the monitoring results shall be incorporated in the monthly EM&A reports.

Figure 4 shows the location of water control station C1a and water monitoring station M4a and M5.

Table 6.2 describes the locations of the additional marine water monitoring stations

Station Description	Code	HK Metric Grid E	HK Metric Grid N	
Control Station (Ebb tide)	C1a	845647	814146	
	M4a	845922	813973	
Impact Monitoring Station	M5	847005	813678	

 Table 6.2
 Locations of Additional Marine Water Monitoring Stations (3RS project)

6.3 Monitoring Parameters

Monitoring of the marine water quality parameters are listed in Table 6.3. Table 6.3 Marine Water Quality Monitoring Parameters

· · · · · · · · · · · · · · · · · · ·	
In-situ measurement	Laboratory analysis
Depth (m)	Suspended solids (mg/L)
Temperature (°C)	
Dissolved Oxygen (mg/L and % saturation)	
Turbidity (NTU)	
Salinity (ppt)	

6.4 Monitoring Frequency

The monitoring frequency of the marine water monitoring is summarized in Table 6.4.



Table 6.4 Monitoring frequency of the marine water			
Parameter	Frequency	No. of Location	No. of Depths
Temperature		2	
Salinity		(TKO-C1 and TKO-	3
Dissolved Oxygen (DO)	3 days/week,	M4)	(Surface, mid-depth
Turbidity	2 tides/day	and 3	& bottom)
Suspended solids (SS)		(C1a, M4a and M5)	

6.5 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, 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, labelled 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



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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 6.5.

	C		
Table 6.5	Summary	or testing	procedures

Laboratory Analysis	Testing Procedure	Detection Limit
Total suspended solids	In house method based on APHA 19th 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 6.6 shows the equipment used for in-situ monitoring of water quality. The calibration certificates are attached in Appendix D1.

	2			· · · · · · · · · · · · · · · · · · ·
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	14/10/24	13/01/25	ET/EW/008/011*
Water Depth	Speedtech SM-5			ET/EW/002/08

 Table 6.6
 Details of Marine Water Quality Monitoring Equipment (In-site measurement)

Remark: (*) indicates the instrument should be calibrated on use.

6.6 Action and Limit Level

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

Table 6.7Water Quality Action and Limit Levels

Parameter	Action Level	Limit Level
DO (mg/L)	<u>Surface & Middle</u> <5.45 mg/L (5%-ile of baseline data) <u>Bottom</u> <4.72 mg/L (5%-ile of baseline data)	<u>Surface & Middle</u> <5.10 mg/L (1%-ile of baseline data) <u>Bottom</u> <2.00 mg/L
SS (mg/L) (Depth- averaged)	>6.74 mg/L (95%-ile of baseline data) or >120% of the upstream control station's SS at the same tide on the same day	>7.67 mg/L (99%-ile of baseline data) or >130% of the upstream control station's SS at the same tide on the same day
Turbidity (NTU) (Depth- averaged)	>4.28 NTU (95%-ile of baseline data) or >120% of the upstream control station's turbidity at the same tide on the same day	>4.58 NTU (99%-ile of baseline data) or >130% of the upstream control station's turbidity at the same tide on the same day



The water quality Action and Limit Levels (3RS project) are presented in the table below.

Table 6.8 Water Quality Action and Limit Levels (3RS project)								
Parameter	Action Level	Limit Level						
DO (mg/L)	<u>Surface & Middle</u> <5.5 mg/L <u>Bottom</u> <5.2 mg/L	<u>Surface & Middle</u> <4.00 mg/L (1%-ile of baseline data) <u>Bottom</u> <2.00 mg/L						
SS (mg/L) (Depth- averaged)	>4.9 mg/L or >120% of the upstream control station's SS at the same tide on the same day	>5.2 mg/L or >130% of the upstream control station's SS at the same tide on the same day						
Turbidity (NTU) (Depth- averaged)	>3.9NTU or >120% of the upstream control station's turbidity at the same tide on the same day	>4.2 NTU or >130% of the upstream control station's turbidity at the same tide on the same day						

6.7 Event and Action Plan

Please refer to the Appendix F for details.

6.8 Monitoring Duration in this reporting period

Below is the time schedule for the marine water quality monitoring events that were conducted in this reporting period:

November 2024											
Sunday	iday Monday Tuesday Wednesday Thursday Friday Satu										
					1	2					
						•					
3	4	5	6	7	8	9					
		•			•	•					
10	11	12	13	14	15	16					
		•		•		•					
17	18	19	20	21	22	23					
		•			•	•					
24	25	26	27	28	29	30					
		•		•		•					

 Table 6.9
 Time Schedule of Impact Marine Water Quality Monitoring

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

*Water quality monitoring (Mid-Flood) on 13/11/2024 was cancelled due to the adverse weather condition (The Tropical Cyclone Signal No.3).

6.9 Marine Water Quality Monitoring Results

The impact water quality measurement results are detailed in Appendix D2. Appendix D3 presents the water quality monitoring data and graphical presentations of monitoring results. The summary of marine water quality exceedances is shown in Table 6.10.

 Table 6.10
 Summary of Impact Marine Water Quality Exceedances

Station	Exceedance	D	0	Turk	oidity	S	S	Тс	otal
	Level	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb
TKO MA	Action	0	0	0	0	0	0	0	0
TKO-M4	Limit	0	0	0	0	0	0	0	0



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The impact water quality measurement results (3RS project) are detailed in Appendix D4. Appendix D5 presents the water quality monitoring data and graphical presentations of monitoring results. The summary of marine water quality exceedances (3RS project) is shown in Table 6.11.

Station	Exceedance	DO		Turbidity		SS		Total	
Station	Level	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb
M4a	Action	0	0	0	0	0	0	0	0
IVI4a	Limit	0	0	0	0	0	0	0	0
145	Action	0	0	0	0	0	0	0	0
М5	Limit	0	0	0	0	0	0	0	0

 Table 6.11
 Summary of Impact Marine Water Quality Exceedances (3RS project)

According to the summary of marine water monitoring results, no exceedance of Action and limit levels was recorded for this reporting period.

7.0 ENVIRONMENTAL AUDIT

7.1 Weekly ET Site Inspections and EPD's Site Inspection

7.1.1 Weekly ET Site Inspections

Weekly ET 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 period, four weekly site inspections were conducted (06, 13, 20 and 27 November 2024). Table 7.1 presents the key findings of weekly ET site inspection in this reporting period.

	Rey Findings of Weekly ET Site Addits in this reporting period								
Date	Key Findings	Action(s) Taken recommended by ET	Action(s) Taken by the Contractor during the ET weekly site audit	Rectification Status by ET					
06 November 2024	No defective work or obs	No defective work or observation was recorded during the weekly ET site inspection							
13 November 2024	No defective work or obs	No defective work or observation was recorded during the weekly ET site inspection							
20 November 2024	No defective work or obs	No defective work or observation was recorded during the weekly ET site inspection							
27 November 2024	No defective work or obs	servation was recorded dur	ing the weekly ET site ins	spection					

Table 7.1	Key Findings of Weekly ET Sit	te Audits in this reporting period

7.1.2 EPD's Site Inspection

EPD's site inspection was carried out on 12 November 2024 in this reporting period.

7.2 Review of Environmental Monitoring Procedures

The monitoring works conducted by the Environmental Team were inspected regularly. The observations for the monitoring works were recorded and summarized as follows:

Air Quality Monitoring

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

Noise Monitoring

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

Water Quality Monitoring

• The monitoring team recorded the observations around the monitoring stations, which might affect the results.

7.3 Assessment of Environmental Monitoring Results

All monitoring results were audited against the Action and Limit levels and any exceedance would be validated.

No exceedance was recorded in water quality, air quality and noise monitoring in this reporting period.

The monitoring results in this reporting period were comparable with those of baseline month. Detailed discussions were given in Section 4, 5 and 6 of this Report.

7.4 Advice on the Solid and Liquid Waste Management Status

The Contractor usually disposed of non-inert waste, including general refuse and materials segregated from the existing stockpiles, to SENT landfill. Table 7.2 summarizes data on offsite waste disposal in this reporting period and the Monthly Summary Waste Flow Table is shown in Appendix K.

Waste Type	Actual Amount	Disposal Locations						
Public Fill ('000m³)	0	TKO 137 Fill Bank						
C&D Waste ('000kg)	67.67	SENT Landfill / Refuse Collection Point						
Chemical Waste (kg/L)	0 (L)	Collected by licensed collector						

Table 7.2 Actual amounts of Waste generated in this reporting period

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.

Concrete bunding has erected outside the CEDD combined reception office and near the automatic wheel washing facilities for storing generator sets and oil drums. 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 were 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, DP3 and DP4 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.

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8.0 Status of Environmental Licensing and Permitting

All permits/licenses valid in this reporting period are summarized in Table 8.1.

Table 8.1	Summary of env	vironment	al licensin	ng and permit status
Description	Permit No.	Valid	Period	Section
		From	То	
Environmental Permit	EP-134/2002/Q	31/10/23	01/01/27	 Site clearance Construction of a temporary storm water system Stockpiling of 12 million m3 of public fill Setting up two barging points for transporting the stockpiled public fill by barges Setting up a temporary barging point at the existing Explosive Off-loading Barging Point for the month of May 2004 to December 2004 for transporting the stockpiled public fill by barge Construction of operation of a construction and Demolition Material Sorting Facility (C&DMSF) Setting up a Construction and Demolition
Chemical Waste Registration	5213-839- C3750-05	19/04/17		 Spent battery cell containing heavy metals and spent lubricating oil
Effluent Discharge License	WT00041169- 2022	06/06/22	30/06/26	 Effluent, Surface Run-off, and all other wastewater discharges from screen and sedimentation tank
Marine Dumping Permit	EP/MD/25-026	03/10/24	30/11/24	 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	7051970	22/05/17	End of project	
Notification Pursuant to Section 3(3) of the Air Pollution Control (Construction Dust)	10007977	12/04/17	End of project	

Table 8.1 Summary of environmental licensing and permit status

9.0 ENVIRONMENTAL NON-CONFORMANCE

9.1 Summary of air quality, noise and marine water quality

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

Since no documented complaints on noise issue were 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 monitoring.

According to the summary of marine water monitoring results, no exceedance of Action and Limit levels was recorded for this reporting period.

9.2 Summary of Environmental Complaints

No complaint was received in this reporting period.

9.3 Summary of Notification of Summons and successful Prosecution

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

10.0 IMPLEMENTATION STATUS

10.1 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. Any deficiencies were noted in the remarks of the schedule.

10.2 Implementation Status of Event and Action Plan

Since no exceedance of Action and Limit level of air quality, noise and marine water monitoring results was recorded for this reporting period, no further action was required.

10.3 Implementation Status of Environmental Complaint, Notifications of Summons and Successful Prosecutions Handling

A summary of environmental complaints, notifications of summons and successful prosecutions was given in Table 10.1 and further details of the complaint could be found in the Complaint Log (Appendix N).

Table 10.1	Summary	of Environmental	Complaints and Prosecutions	

Complaints	logged	Summons	served	Successful prosecution received			
November 2024	Cumulative	November 2024	Cumulative	November 2024 Cumulative			
0	19	0	0	0	0		

11.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

Impact monitoring of air quality, noise and water quality were carried out at designated locations in accordance with the EM&A Manual in this reporting period.

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

Since no documented complaints on noise issue were 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 monitoring.

According to the summary of marine water monitoring results, no exceedance of Action and Limit levels was recorded for this reporting period.

No complaint, prosecutions and notifications of summons were received in this reporting period.

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

Recommendations

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

Air Quality



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- Ensure the frequency of water spraying on haul roads, crushing plant, 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;
- Provide continuously water spraying system for crushing plant including receiving point and unloading point;
- Provide enclosed conveyor belt for transporting the crushed material directly to the unloading point
- Provide dust screen fenced for crushing plant, and the receiving point of crushing facility would be situated inside an enclosure with one side opening for vehicular access;
- 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 site 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, permanent desilting chambers, regularly;
- Operate and maintain the silt curtains regularly;
- Operate the cleaning vessel within the TKO Basin regularly;
- Clean up the fill material on the concrete pavement at BHA frequently; and
- Remove the stagnant water or provide approved pesticides for the stagnant water in the permanent desilting chambers, if any.

Landscape and Visual

- Provide hydroseeding on the exposed slopes, on which the final profile has been formed;
- Erect all the site hoarding/chaining fences in accordance with agreed design at proper location;
- Maintain the hydroseeded slopes in accordance with the Landscape Plan.

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 mesh screen on top of the additional drainage to avoid improper dumping of rubbish;
- 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

12.0 FUTURE KEY ISSUES

12.1 Work Programme for the Coming Month

- 1. Operation of the Public Fill Reception Facilities at Tseung Kwan O Fill Bank (TKOFB);
- 2. Operation of dewatering plant at TKOFB;
- 3. Operation and Maintenance of Artificial Intelligent System for Crushing Number 2, 3 and 4 (Model QJ241) at TKOFB;
- 4. Operation of the Integrated Public Fill Reception (Fixed Rigid Platform) at TKOFB;
- 5. Operation and maintenance of Wheel Washing Bays and Facilities at TKOFB;
- 6. Operation and Maintenance of the Wash House at TKOFB;
- 7. Personnel Position Tracking and Proximity Detection System of Moving Plant at TKOFB;
- 8. Operation and Maintenance a Digital Works Supervision System (DWSS) for TKOFB;
- 9. Maintenance of the Drainage Systems at TKOFB;



- 10. Operation and Maintenance of crushing plants at TKOFB;
- 11. Delivery of Public Fill to Taishan at TKOFB;
- 12. Construction of Gabion Wall at TKOFB;
- 13. Implementation of C Easy system at TKOFB (Phase 1)
- 14. Carry out GCO Probe test and SRT
- 15. Operation of recycling public fill as blanket layer material of reclamation projects PMI No.70
- 16. PMI No. 94 Post Geotechnical Monitoring at TKOFB
- 17. Construction of concrete access road to fixed rigid platform

12.2 Key Issues for the Coming Month

Key issues to be considered in the coming month include:

- Chemical and waste management;
- Treatment of runoff and wastewater prior to discharge;
- Dust generated from loading and unloading activities;
- Dust generated from dump trucks traffic;
- Regular checking of the drainage system;
- Flood prevention; and
- Noise from operation of the crushing plant.

Mitigation measures to be required in the coming month:

Air Quality Impact

- To provide adequate water spraying on haul roads and working platform;
- To operate and maintain automatic wheel washing facilities properly;
- To dampen the fill material prior to unloading or movement;
- To provide road sweeping on haul road near site egress and public roads outside site egress;
- To ensure implementation of the dust mitigation measures for the site activities;
- To maintain proper operation of the mist spraying system;
- To provide proper maintenance for vehicles and machines on site; and
- To investigate any other dust sources around the air sensitive receivers

<u>Noise</u>

- To switch off equipment if not in use;
- To operate silent equipment;
- To identify the noise sources inside and outside of the site;
- To follow up any exceedance caused by the Fill Bank operation; and
- To re-schedule the work activities in the event of valid noise exceedance.

Water Quality Impact

- To maintain the drainage system in the Fill Bank;
- To ensure the cleanliness of oil interceptor bypass tanks and all the drainage channels;
- To maintain the existing silt trap to ensure good efficiency of wheel wash facilities;
- To repair, inspect and maintain the silt curtains regularly;
- To provide covers for the drip trays to avoid stagnant water pond due to rainfall;
- To deploy a cleaning vessel to remove floating rubbish in the TKO Basin;
- To clean up the concrete paved area at Portion I every night to avoid fill materials from being washed into the sea;
- To avoid any stagnant water or provide insecticide to avoid mosquito breeding in the Fill Bank.
- To prevent untreated wastewater directly discharge into nullahs; and
- To provide desilting facilities such as granular rock filter and geotextile filter at nullah.

Chemical and Waste Management

- To remove waste from the site regularly;
- To properly store and handle chemical wastes on site;
- To implement trip ticket system for all the imported public fill and general refuse disposal;
- To provide and manage sufficiently sized drip trays for diesel drums or chemical containers;
- To remove existing unwanted material in the stockpiles and avoid improper disposal at the Fill Bank through inspection of imported truckloads;
- To maintain proper housekeeping at the workshop area;
- To remove the oil stains in the event of leakage and handle all materials using for this cleaning works as chemical waste;



- To maintain mesh screen on top of the additional drainage, DP3 opening to avoid improper dumping of rubbish into this channel; and
- To identify C&D material by packaging, labeling, storage, transportation and disposal in accordance with statutory regulations.

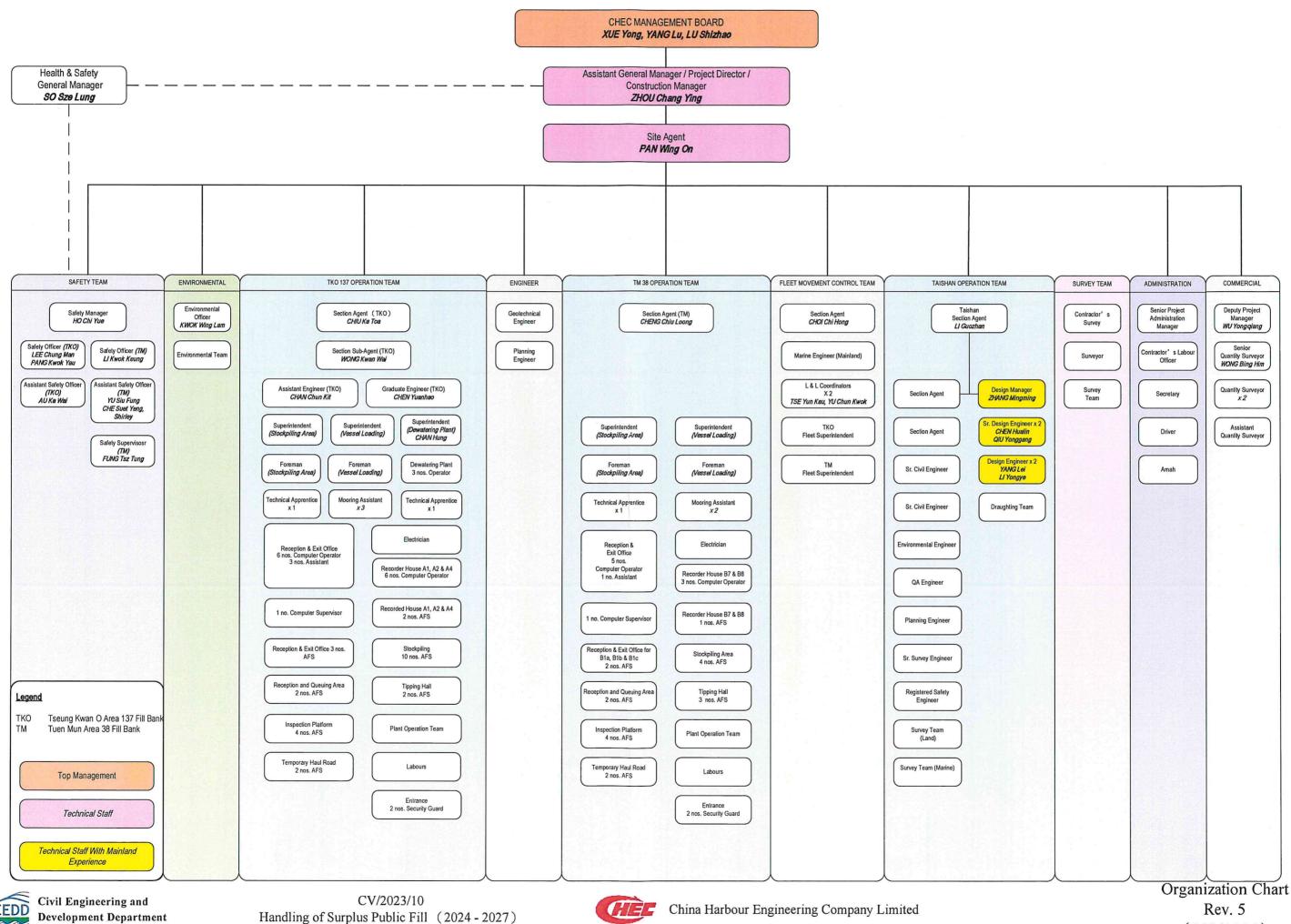
12.3 Monitoring Schedule for the Coming Month

The proposed EM&A program of the coming month and predicted tide schedule from the Hong Kong Observatory are attached in Appendix L.



Appendix A

Project Organization Chart



CEDD nor Handling of Surplus Public Fill (2024 - 2027)

(20241114)



Appendix B1

Calibration Certificates for Impact Air Quality Monitoring Equipment



RECALIBRATION DUE DATE: January 15, 2025

Certificate of Calibration

	Calibration Certification Information									
Cal. Date:	January 15,	2024	Rootsr	smeter S/N: 438320 Ta: 2			295	°K		
Operator:	Jim Tisch					Pa:	756.4	mm Hg		
Calibration Model #: TE-5025A C				orator S/N:	4228					
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ	1		
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)			
	1	1	2	1	1.4400	3.3	2.00			
	2	3	4	1	1.0250	6.4	4.00			
	3	5	6	1	0.9240	8.0	5.00			
	4	7	8	1	0.8780	8.9	5.50			
	5	9	10	1	0.7230	12.8	8.00			
			C	ata 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-axi	is)	Va	(x-axis)	(y-axis)			
	1.0010	0.6951		1,4180		0.6914	0.8832			
	0.9969	0.9726	2.005	54	0.9915	0.9674	1.2490	1		
	0.9948	1.0766	2.242	21	0.9894	1.0708	1.3964			
	0.9936	1.1316	2.3515 2.8361 2.11633 - 0.04857		0.9882	1.1256	1.4646			
	0.9884	1.3671			0.9831	1.3597	1.7664			
		m=				m=	1.32521			
		b=			QA [b=	-0.03025			
		r=	0.999	87		r=	0.99987			
					Calculations					
			/Pstd)(Tstd/Ta	n)		∆Vol((Pa-∆	P)/Pa)	1		
	Qstd=	Vstd/∆Time				Va/∆Time				
			For subsequ	ent flow ra	te calculation	ns:				
	Qstd=	1/m((√∆H(Pa Tstd Pstd Ta))-b)	Qa= $1/m\left(\left(\sqrt{\Delta H(Ta/Pa)}\right)-b\right)$					
	Standard	Conditions								
Tstd						RECA	LIBRATION			
Pstd		mm Hg				ommonde o	nnual recalibratio	on ner 1002		
Ally on like -+		(ey Ior roading (i	n H2O)				Regulations Part			
		er reading (i eter reading					, Reference Meth			
		perature (°K)					ended Particulat			
		essure (mm				•	ended Particulat ere, 9.2.17, page			
b: intercept					LIN [®]	e Aunosphe	sie, 3.2.17, page	50		
m: slope										

Tisch Environmental, Inc. 145 South Miami Avenue

Village of Cleves, OH 45002

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



TEST REPORT

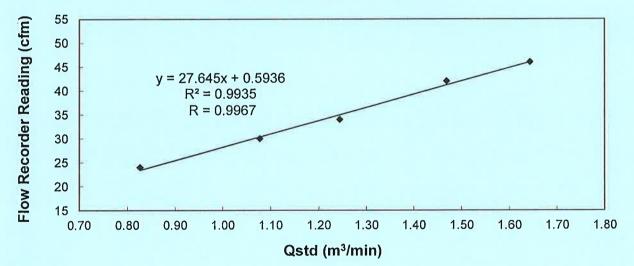
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<u>Calibration Report</u> of High Volume Air Sampler

Manufacturer	:	Graseby 105 Da	te of Calibra	ation	: 09 0	ctober 2024				
Serial No.	:	9795 (ET/EA/003/18) Ca	libration Du	e Date	: <u>08 D</u>	ecember 20	24			
Method	:	Five-point calibration by using standard ca Operations Manual	Five-point calibration by using standard calibration kit Tisch TE-5025A refer to the Operations Manual							
Results	;	Flow recorder reading (cfm)	46	42	34	30	24			
		Qstd (Actual flow rate, m ³ /min)	1.64	1.47	1.24	1.08	0.83			
		Pressure : 760.19 mm Hg		Temp. :	299	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 :	Mak Ster War	
	MAK, Kei Wai	
	(Assistant Supervisor)	

Checked by :

LAU, Chi Leung

(Environmental Team Leader)



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

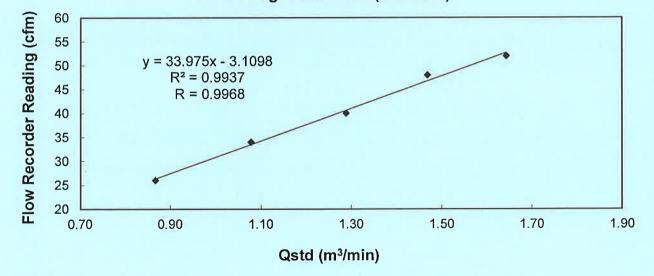
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TEST REPORT

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

Manufacturer	:	Andersen G1051 Date	e of Calib	ration		09 October 2024								
Serial No.	3	1176 (ET / EA / 003 / 05) Calibration Due Date : 08 December 2024												
Method	÷	Based on Operations Manual for the 5-point manufactured by Tisch TE-5025 A	Based on Operations Manual for the 5-point calibration using standard calibration kit manufactured by Tisch TE-5025 A											
Results	Ĩ	Flow recorder reading (cfm)	52	48		40	34	26						
		Qstd (Actual flow rate, m ³ /min)	1.64	1.47	1	.29	1.08	0.87						
		Pressure: 760.19 mm Hg		Temp. :	2	299	К							

Sampler 1176 Calibration Curve Site: Tseung Kwan O 137 (TKO-A2a)



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

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

Calibrated by :	Mak	Yei	Wai
	MAK, Kei	Wai	
	(Assistant	Super	visor)

Checked by

LAU, Chi Leung (Environmental Team Leader)



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TEST REPORT

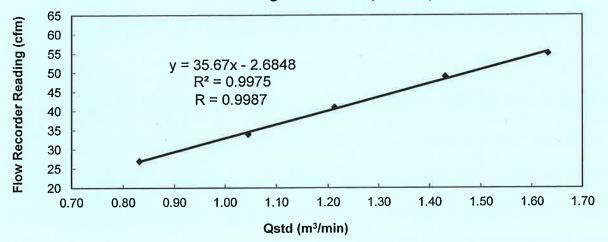
Calibration Report

of

High Volume Air Sampler

Manufacturer	:	Graseby (Model No. GS2310)	Date of Calibration : <u>30 September 2024</u>					
Serial No.	:	1934 (ET/EA/003/25)	Calibration	Due Date	: 29 No	vember 20)24	
Method	:	Five-point calibration by using standard ca Manual	alibration kit	Tisch TE-5	025A refe	r to the Op	perations	
Results		Flow recorder reading (cfm)	55	49	41	34	27	
		Qstd (Actual flow rate, m ³ /min)	1.63	1.43	1.21	1.05	0.83	
		Pressure: 754.19 mm	n Hg	Temp. :		303.5	к	

Sampler 1934 Calibration Curve Site: Tseung Kwan O 137 (TKO-A3)



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

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

Calibrated by : MAK, Kei Wai (Assistant Supervisor)

Approved by :

(Environmental Team Leader)



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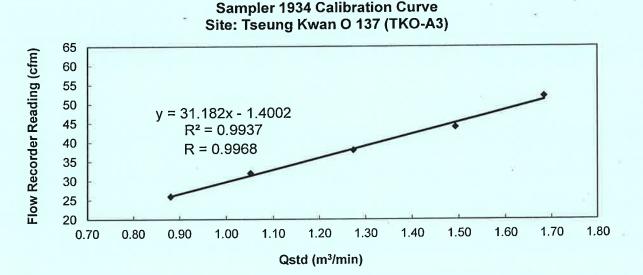
TEST REPORT

Calibration Report

of

High Volume Air Sampler

Manufacturer	:	Graseby (Model No. GS2310)	Date of Cal	ibration	: <u>29 No</u>	29 November 2024							
Serial No.	:	1934 (ET/EA/003/25)	034 (ET / EA / 003 / 25) Calibration Due Date : 28 January 2025										
Method	12	ve-point calibration by using standard calibration kit Tisch TE-5025A refer to the Operations anual											
Results	:	Flow recorder reading (cfm)	52 1.68	44 1.49	38 1.27	32 1.05	26 0.88						
		Qstd (Actual flow rate, m ³ /min) Pressure : 765.74 mm	n Hg	Temp. :	1.27		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 :

ei War MAK, Kei Wai

(Assistant Supervisor)

Approved by

LAU, Chi Leung (Environmental Team Leader)



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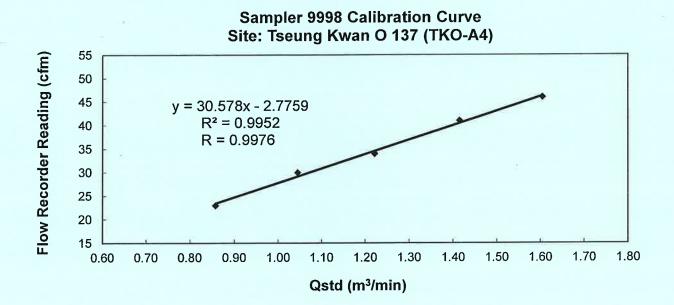
TEST REPORT

Calibration Report

of

High Volume Air Sampler

Manufacturer	:	Graseby (Model No. GS2310)	30 Se	30 September 2024									
Serial No.	:	9998 (ET/EA/003/12)	Calibration	Due Date	29 No	29 November 2024							
Method	:	Five-point calibration by using standard Manual	ve-point calibration by using standard calibration kit Tisch TE-5025A refer to the Operations anual										
Results	:	Flow recorder reading (cfm)	46	41	34	30	23						
		Qstd (Actual flow rate, m ³ /min)	1.61	1.41	1.22	1.05	0.86						
		Pressure : 754.19 mm Hg		Temp. :	303.5	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 Mak Ki Win

(Assistant Supervisor)

Checked by :

LAU, Chi Leung (Environmental Team Leader)



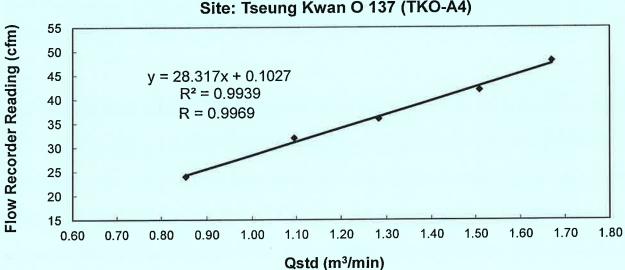
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TEST REPORT

Calibration Report of **High Volume Air Sampler**

Manufacturer	:	Graseby (Model No. GS2310)	Date of Cal	ibration	29 No	29 November 2024						
Serial No.	:	9998 (ET/EA/003/12)	Calibration	Due Date	: <u>28 Ja</u> r	nuary 2025						
Method	:	ive-point calibration by using standard calibration kit Tisch TE-5025A refer to the Operations Ianual										
Results	:	Flow recorder reading (cfm)	48	42	36	32	24					
		Qstd (Actual flow rate, m ³ /min)	1.67	1.51	1.28	1.10	0.85					
		Pressure : 765.74 mm Hg		Temp. :	291.8	К						



Sampler 9998 Calibration Curve Site: Tseung Kwan O 137 (TKO-A4)

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.

Tei Wei

Calibrated by : MAK, Kei Wai (Assistant Supervisor)

Checked by

LAU, Chi Leung (Environmental Team Leader)



Appendix B2

Impact Air Quality Monitoring Results

Summary of 24-hr TSP Monitoring Results



Monitoring Station : TKO-A1

Location : Site Egress

Sta	art	Finish Elapse Time Sampling Flow Rate (m ³ /min.)		Elapse Time		Elapse Time		Flow Rate (m ³ /min.)		Average	Filter W	
Date	Time	Date	Time	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	'Conc. (μg/m³)
2/11/2024	08:30	3/11/2024	08:30	29480.74	29504.74	24.00	1.2084	1.2084	1.2084	2.8427	3.1176	158
8/11/2024	09:20	9/11/2024	09:20	29507.74	29531.74	24.00	1.2084	1.2084	1.2084	2.8004	3.0684	154
14/11/2024	08:30	15/11/2024	08:30	29534.74	29558.74	24.00	1.2446	1.2446	1.2446	2.6207	2.8662	137
20/11/2024	15:25	21/11/2024	15:25	29561.74	29585.74	24.00	1.2446	1.2446	1.2446	2.7106	2.9293	122
26/11/2024	08:30	27/11/2024	08:30	29588.74	29612.74	24.00	1.2084	1.2084	1.2084	2.7618	3.0315	155

Monitoring Station : TKO-A2a

Location : CREO

Sta	art	Fin	ish	Elapse	Elapse Time Sampling		Flow Rate (m ³ /min.) Average Filter Weight (g)		Flow Rate (m ³ /min.) Averag		Flow Rate (m ³ /min.)		
Date	Time	Date	Time	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	Conc. (µg/m³)	
2/11/2024	08:30	3/11/2024	08:30	31484.71	31508.71	24.00	1.0628	1.0628	1.0628	2.7889	3.0322	159	
8/11/2024	09:25	9/11/2024	09:25	31511.71	31535.71	24.00	1.0628	1.0628	1.0628	2.8271	3.0674	157	
14/11/2024	08:30	15/11/2024	08:30	31538.71	31562.71	24.00	1.0923	1.0923	1.0923	2.6394	2.8580	139	
20/11/2024	15:30	21/11/2024	15:30	31565.71	31589.71	24.00	1.0923	1.0923	1.0923	2.7584	2.9519	123	
26/11/2024	08:30	27/11/2024	08:30	31592.71	31616.71	24.00	1.0628	1.0628	1.0628	2.7885	3.0288	157	

Summary of 1-hr TSP Monitoring Results



Monitoring Station : TKO-A1

Location : Site Egress

Sta	art	Fin	ish	Elapse	e Time	Sampling	Flow Rate	e (m ³ /min.)	Average	Filter W	eight (g)	Conc. (µg/m ³)	
Date	Time	Date	Time	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	ουπο. (μg/m)	
1/11/2024	09:25	1/11/2024	10:25	29479.74	29480.74	1.00	1.2084	1.2084	1.2084	2.7338	2.7532	268	
4/11/2024	10:20	4/11/2024	11:20	29504.74	29505.74	1.00	1.2084	1.2084	1.2084	2.7418	2.7593	241	
4/11/2024	14:00	4/11/2024	15:00	29505.74	29506.74	1.00	1.2084	1.2084	1.2084	2.7215	2.7392	244	
6/11/2024	09:15	6/11/2024	10:15	29506.74	29507.74	1.00	1.2084	1.2084	1.2084	2.7362	2.7552	262	
11/11/2024	09:20	11/11/2024	10:20	29531.74	29532.74	1.00	1.2446	1.2446	1.2446	2.7158	2.7346	252	
11/11/2024	10:25	11/11/2024	11:25	29532.74	29533.74	1.00	1.2446	1.2446	1.2446	2.7151	2.7341	254	
13/11/2024	13:30	13/11/2024	14:30	29533.74	29534.74	1.00	1.2446	1.2446	1.2446	2.7415	2.7590	234	
15/11/2024	09:35	15/11/2024	10:35	29558.74	29559.74	1.00	1.2446	1.2446	1.2446	2.7361	2.7529	225	
15/11/2024	10:55	15/11/2024	11:55	29559.74	29560.74	1.00	1.2446	1.2446	1.2446	2.7501	2.7667	222	
18/11/2024	14:15	18/11/2024	15:15	29560.74	29561.74	1.00	1.2446	1.2446	1.2446	2.8121	2.8305	246	
22/11/2024	13:07	22/11/2024	14:07	29585.74	29586.74	1.00	1.2446	1.2446	1.2446	2.7183	2.7376	258	
22/11/2024	14:13	22/11/2024	15:13	29586.74	29587.74	1.00	1.2446	1.2446	1.2446	2.7536	2.7726	254	
25/11/2024	09:13	25/11/2024	10:13	29587.74	29588.74	1.00	1.2084	1.2084	1.2084	2.7161	2.7337	243	
27/11/2024	09:20	27/11/2024	10:20	29612.74	29613.74	1.00	1.2084	1.2084	1.2084	2.7457	2.7643	257	
27/11/2024	13:10	27/11/2024	14:10	29613.74	29614.74	1.00	1.2084	1.2084	1.2084	2.7347	2.7532	255	
29/11/2024	09:05	29/11/2024	10:05	29614.74	29615.74	1.00	1.2084	1.2084	1.2084	2.7725	2.7903	246	



Monitoring Station : TKO-A2a

Location : CREO

Sta	art	Fin	ish	Elapse	e Time	Sampling	Flow Rate	e (m ³ /min.)	Average	Filter W	eight (g)	0
Date	Time	Date	Time	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	Conc. (µg/m ³)
1/11/2024	09:30	1/11/2024	10:30	31483.71	31484.71	1.00	1.0628	1.0628	1.0628	2.7631	2.7804	271
4/11/2024	10:25	4/11/2024	11:25	31508.71	31509.71	1.00	1.0628	1.0628	1.0628	2.7993	2.8149	245
4/11/2024	14:05	4/11/2024	15:05	31509.71	31510.71	1.00	1.0628	1.0628	1.0628	2.8202	2.8360	248
6/11/2024	09:20	6/11/2024	10:20	31510.71	31511.71	1.00	1.0628	1.0628	1.0628	2.7956	2.8125	265
11/11/2024	09:25	11/11/2024	10:25	31535.71	31536.71	1.00	1.0923	1.0923	1.0923	2.7532	2.7699	255
11/11/2024	10:30	11/11/2024	11:30	31536.71	31537.71	1.00	1.0923	1.0923	1.0923	2.7034	2.7204	259
13/11/2024	13:35	13/11/2024	14:35	31537.71	31538.71	1.00	1.0923	1.0923	1.0923	2.7267	2.7422	237
15/11/2024	09:40	15/11/2024	10:40	31562.71	31563.71	1.00	1.0923	1.0923	1.0923	2.7267	2.7417	229
15/11/2024	11:00	15/11/2024	12:00	31563.71	31564.71	1.00	1.0923	1.0923	1.0923	2.7873	2.8020	224
18/11/2024	14:20	18/11/2024	15:20	31564.71	31565.71	1.00	1.0923	1.0923	1.0923	2.7218	2.7382	250
22/11/2024	13:10	22/11/2024	14:10	31589.71	31590.71	1.00	1.0923	1.0923	1.0923	2.7542	2.7714	262
22/11/2024	14:17	22/11/2024	15:17	31590.71	31591.71	1.00	1.0923	1.0923	1.0923	2.7419	2.7587	256
25/11/2024	09:17	25/11/2024	10:17	31591.71	31592.71	1.00	1.0628	1.0628	1.0628	2.7538	2.7695	246
27/11/2024	09:25	27/11/2024	10:25	31616.71	31617.71	1.00	1.0628	1.0628	1.0628	2.7069	2.7236	262
27/11/2024	13:15	27/11/2024	14:15	31617.71	31618.71	1.00	1.0628	1.0628	1.0628	2.8053	2.8218	259
29/11/2024	09:10	29/11/2024	10:10	31618.71	31619.71	1.00	1.0628	1.0628	1.0628	2.7665	2.7824	249

Summary of 24-hr TSP Monitoring Results



Monitoring Station : TKO-A3

Location : A4 Gabion Wall

Sta	art	Fin	ish	Elapse Time Sar		Sampling Flow Rate (r		e (m ³ /min.)	Average	Filter Weight (g)		Conc. (µg/m³)
Date	Time	Date	Time	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	Conc. (µg/m)
2/11/2024	08:30	3/11/2024	08:30	31143.29	31167.29	24.00	1.0004	1.0004	1.0004	2.8183	2.8774	41
8/11/2024	09:36	9/11/2024	09:36	31170.29	31194.29	24.00	1.0284	1.0284	1.0284	2.7653	2.8616	65
14/11/2024	08:30	15/11/2024	08:30	31197.29	31221.29	24.00	1.0284	1.0284	1.0284	2.7255	2.8055	54
20/11/2024	15:41	21/11/2024	15:41	31224.29	31248.29	24.00	1.0284	1.0284	1.0284	2.7362	2.7999	43
26/11/2024	08:30	27/11/2024	08:30	31251.29	31275.29	24.00	1.0004	1.0004	1.0004	2.7806	2.8469	46

Monitoring Station : TKO-A4

Location : TKO Desalination Plant

Sta	art	Fin	ish	Elapse	e Time	Sampling	Flow Rate (m ³ /min.)		Average	Filter Weight (g)		
Date	Time	Date	Time	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	'Conc. (μg/m ³)
2/11/2024	08:30	3/11/2024	08:30	27655.24	27679.24	24.00	1.1373	1.1373	1.1373	2.7873	2.8446	35
8/11/2024	09:43	9/11/2024	09:43	27682.24	27706.24	24.00	1.1700	1.1700	1.1700	2.8157	2.9168	60
14/11/2024	08:30	15/11/2024	08:30	27709.24	27733.24	24.00	1.1700	1.1700	1.1700	2.8049	2.8908	51
20/11/2024	15:48	21/11/2024	15:48	27736.24	27760.24	24.00	1.1700	1.1700	1.1700	2.7414	2.8088	40
26/11/2024	08:30	27/11/2024	08:30	27763.24	27787.24	24.00	1.1373	1.1373	1.1373	2.8339	2.9043	43

Summary of 1-hr TSP Monitoring Results



Monitoring Station : TKO-A3

Location : A4 Gabion Wall

Sta	art	Fini	ish	Elapse	e Time	Sampling	Flow Rate	e (m ³ /min.)	Average	Filter W	eight (g)	Conc. (µg/m ³)
Date	Time	Date	Time	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	- 00nc. (μg/m)
1/11/2024	09:41	1/11/2024	10:41	31142.29	31143.29	1.00	1.0004	1.0004	1.0004	2.8144	2.8220	127
4/11/2024	10:36	4/11/2024	11:36	31167.29	31168.29	1.00	1.0284	1.0284	1.0284	2.7624	2.7693	112
4/11/2024	14:17	4/11/2024	15:17	31168.29	31169.29	1.00	1.0284	1.0284	1.0284	2.7601	2.7669	110
6/11/2024	09:33	6/11/2024	10:33	31169.29	31170.29	1.00	1.0284	1.0284	1.0284	2.6514	2.6589	122
11/11/2024	09:40	11/11/2024	10:40	31194.29	31195.29	1.00	1.0284	1.0284	1.0284	2.8421	2.8489	110
11/11/2024	10:43	11/11/2024	11:43	31195.29	31196.29	1.00	1.0284	1.0284	1.0284	2.7032	2.7098	107
13/11/2024	13:48	13/11/2024	14:48	31196.29	31197.29	1.00	1.0284	1.0284	1.0284	2.7682	2.7755	118
15/11/2024	09:50	15/11/2024	10:50	31221.29	31222.29	1.00	1.0284	1.0284	1.0284	2.7849	2.7907	94
15/11/2024	11:13	15/11/2024	12:13	31222.29	31223.29	1.00	1.0284	1.0284	1.0284	2.8357	2.8418	99
18/11/2024	14:30	18/11/2024	15:30	31223.29	31224.29	1.00	1.0284	1.0284	1.0284	2.7361	2.7441	130
22/11/2024	13:22	22/11/2024	14:22	31248.29	31249.29	1.00	1.0004	1.0004	1.0004	2.7533	2.7601	113
22/11/2024	14:30	22/11/2024	15:30	31249.29	31250.29	1.00	1.0004	1.0004	1.0004	2.6088	2.6154	110
25/11/2024	09:25	25/11/2024	10:25	31250.29	31251.29	1.00	1.0004	1.0004	1.0004	2.6927	2.6989	103
27/11/2024	09:35	27/11/2024	10:35	31275.29	31276.29	1.00	1.0004	1.0004	1.0004	2.7297	2.7365	113
27/11/2024	13:25	27/11/2024	14:25	31276.29	31277.29	1.00	1.0004	1.0004	1.0004	2.7373	2.7440	112
29/11/2024	09:23	29/11/2024	10:23	31277.29	31278.29	1.00	1.1032	1.1032	1.1032	2.7347	2.7425	118



Monitoring Station : TKO-A4

Location : TKO Desalination Plant

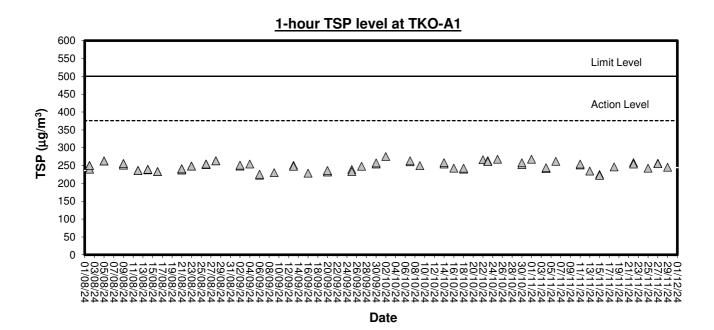
Sta	art	Fin	ish	Elapse	e Time	Sampling	Flow Rate	e (m ³ /min.)	Average	Filter W	eight (g)	0 (
Date	Time	Date	Time	Initial	Final	Time (hrs)	Initial	Final	(m ³ /min.)	Initial	Final	-Conc. (µg/m ³)
1/11/2024	09:48	1/11/2024	10:48	27654.24	27655.24	1.00	1.1373	1.1373	1.1373	2.7452	2.7535	122
4/11/2024	10:43	4/11/2024	11:43	27679.24	27680.24	1.00	1.1700	1.1700	1.1700	2.6135	2.6209	105
4/11/2024	14:24	4/11/2024	15:24	27680.24	27681.24	1.00	1.1700	1.1700	1.1700	2.8119	2.8191	103
6/11/2024	09:41	6/11/2024	10:41	27681.24	27682.24	1.00	1.1700	1.1700	1.1700	2.7426	2.7507	115
11/11/2024	09:48	11/11/2024	10:48	27706.24	27707.24	1.00	1.1700	1.1700	1.1700	2.7598	2.7671	104
11/11/2024	10:51	11/11/2024	11:51	27707.24	27708.24	1.00	1.1700	1.1700	1.1700	2.6913	2.6984	101
13/11/2024	13:58	13/11/2024	14:58	27708.24	27709.24	1.00	1.1700	1.1700	1.1700	2.6221	2.6299	111
15/11/2024	09:57	15/11/2024	10:57	27733.24	27734.24	1.00	1.1700	1.1700	1.1700	2.8279	2.8340	87
15/11/2024	11:21	15/11/2024	12:21	27734.24	27735.24	1.00	1.1700	1.1700	1.1700	2.8137	2.8200	90
18/11/2024	14:39	18/11/2024	15:39	27735.24	27736.24	1.00	1.1700	1.1700	1.1700	2.7084	2.7172	125
22/11/2024	13:28	22/11/2024	14:28	27760.24	27761.24	1.00	1.1373	1.1373	1.1373	2.7274	2.7347	107
22/11/2024	14:37	22/11/2024	15:37	27761.24	27762.24	1.00	1.1373	1.1373	1.1373	2.6799	2.6871	106
25/11/2024	09:35	25/11/2024	10:35	27762.24	27763.24	1.00	1.1373	1.1373	1.1373	2.6772	2.6838	97
27/11/2024	09:40	27/11/2024	10:40	27787.24	27788.24	1.00	1.1373	1.1373	1.1373	2.7561	2.7632	104
27/11/2024	13:29	27/11/2024	14:29	27788.24	27789.24	1.00	1.1373	1.1373	1.1373	2.8217	2.8286	101
29/11/2024	09:30	29/11/2024	10:30	27789.24	27790.24	1.00	1.1265	1.1265	1.1265	2.7501	2.7575	109

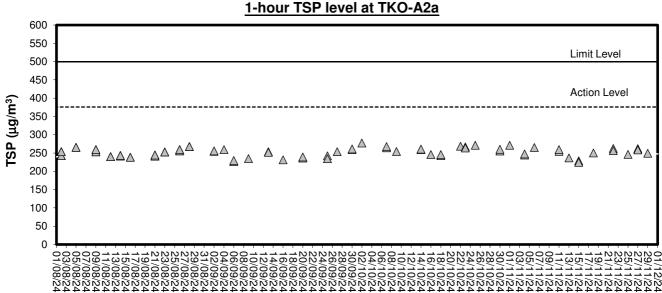


Appendix B3

Graphical Plots of Impact Air Quality Monitoring Data

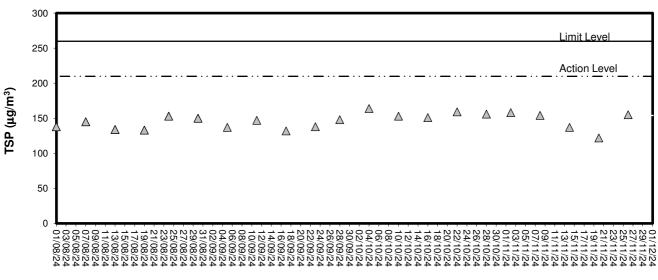






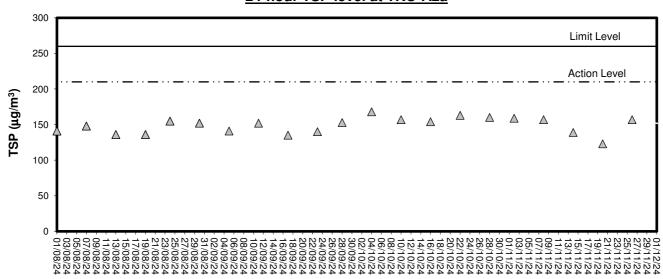
Date





24-hour TSP level at TKO-A1



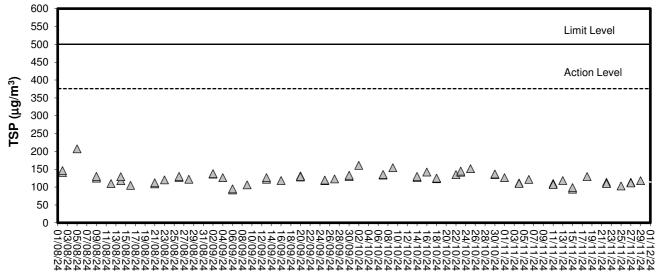


Date

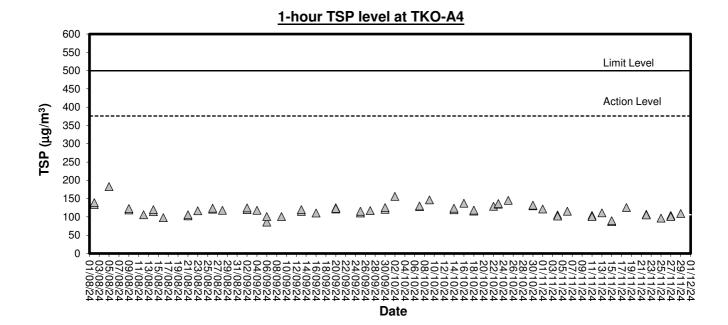
24-hour TSP level at TKO-A2a



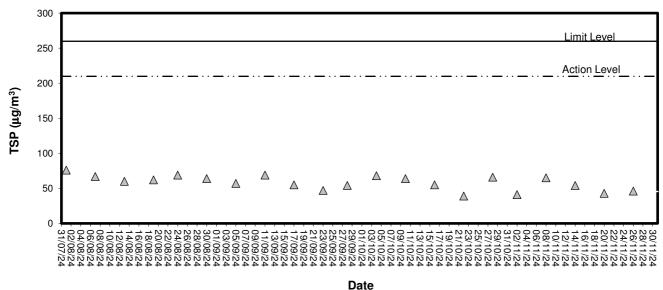




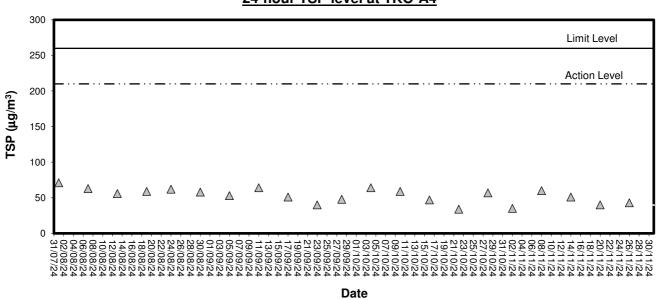
Date







24-hour TSP level at TKO-A3



24-hour TSP level at TKO-A4



Appendix C1

Calibration Certificates for Impact Noise Monitoring Equipment



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

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

Calibration Certificate

*	Certificate No.	CSA38446
a		
	Page	: 1 of 2
Information Provided by Customer		
Customer : ETS - Testconsult Limited		
Address : 8/F., Block B, Veristrong Industrial C	entre. 34 - 36 Au Pui Wan S	treet, Fotan, Shatin, Hong Kong
Information of Unit-under-test (UUT)		
Description : Sound Level Calibrator		
Manufacturer RION	Equipment I.D.	ET/EN/002/01
Type : NC-73	Serial No.	10196943
Laboratory Information		
Lab. Ref. No. : Q/CAL/23/9463/I	Procedure	CQS/002/A
Date of Calibration : 23-Nov-2023	Date of Receipt	15-Nov-2023
Date of Issue : 24-Nov-2023	Calibration Location	Calibration Laboratory
Calibration Condition		
Ambient Temperature : (20 ± 3) °C	Relative Humidity	: (50±20) %
Stabilizing Time : 30 minutes	Sampling	: As received
Ambient Pressure : (1000 ± 50) hPa	2	
Reference equipment		
Multi-function sound calibrator, ET/2801/01		
 Measuring Amplifier, ET/2702/01/01 		
- Signal generator, ET/2503/01		
- Reference Oscilloscope, ET/2502/01		
Calibration specification		
 To perform the calibration of sound level calibrator. 		
Calibration result		
- The results are detailed on the subsequent pages.		1
Remarks		
- The calibration results apply to the particular unit-under-test c	only.	1

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

Calibrated By :

Tony MA (Technician) Approved By: CHAN Chi Wai

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



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Form Q/AS/C/02 Issue 1(2/4) [02/22]

Page : 2 of 2

Calibration Certificate

Certificate No. CSA38446

Calibration Result:

1. Measured Sound Pressure Level:

Nominal Frequency (Hz)	Nominal Output Sound Pressure (dB)	Measured Output (dB)	Expanded Uncertatiny (dB)	Coverage Factor
1000	94.0	93.9	0.13	2.0

2. Actual Output Frequency:

Nominal Frequency	Nominal Output	Measured Output (Hz)	Expanded	Coverage
(Hz)	Sound Pressure (dB)		Uncertatiny (Hz)	Factor
1000	94.0	980.783	0.057	2.0

Remark:

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

- Measured output are mean of three measurements.

End of certificate



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

Calibration Certificate

: CSA44621

Page

3

1 of

Information Provided by Customer : ETS - Testconsult Limited

Customer Address

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

Information of Unit-under-test (UUT)

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

Laboratory Information

Q/CAL/24/5138/I Lab. Ref. No. : 16-Jul-2024 Date of Calibration Date of Issue 18-Jul-2024

Procedure	
Date of Receipt	
Calibration Location	

: CQS/001/A : 25-Jun-2024

: Calibration Laboratory

Calibration Condition

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

Reference equipment

Multi-function sound calibrator, ET/2801/01

- Signal generator, ET/2503/01

Calibration specification

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

Calibration result

The results are detailed on the subsequent pages.

Remarks

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

Calibrated By :

Tommy TAM (Technician) Approved By:

CHAN Chi Wai

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Calibration Certificate

Certificate No. CSA44621

Page 2 of 3

Calibration Result:

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

Ra	nge / Mode		Reference Level	REF Frequency (kHz)	UUT Reading	Deviation	Expanded Uncertatiny	Coverage Factor
	Self-cal	1.50	94.0		93.9	-0.1	0.13	2.0
	Range	30 to 130	104.0	1	103.9	-0.1	0.13	2.0
	Mode	Fast	114.0		113.9	-0.1	0.13	2.0
A-Weighting	Self-cal		94.0		93.8	-0.2	0.13	2.0
	Range	30 to 130	104.0	1	103.9	-0.1	0.13	2.0
	Mode	Slow	114.0	1	113.9	-0.1	0.13	2.0
	Self-cal		94.0	1	93.8	-0.2	0.13	2.0
	Range	30 to 130	104.0		103.9	-0.1	0.15	2.0
	Mode	Fast	114.0		113.8	-0.2	0.13	2.0
C-Weighting	Self-cal		94.0		93.8	-0.2	0.13	2.0
	Range	30 to 130	104.0	1	103.9	-0.1	0.15	2.0
	Mode	Slow	114.0	1	113.9	-0.1	0.13	2.0
	Self-cal		94.0		93.8	-0.2	0.13	2.0
	Range	30 to 130	104.0	1	103.9	-0.1	0.13	2.0
	Mode	Fast	114.0		113.9	-0.1	0.13	2.0
Z-Weighting	Self-cal	345	94.0		93.8	-0.2	0.13	2.0
	Range	30 to 130	104.0	1	103.9	-0.1	0.13	2.0
	Mode	Slow	114.0		113.9	-0.1	0.13	2.0

Remark:

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

- UUT reading are mean of three measurements.

- Deviation = UUT Reading - Reference Level



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

Calibration Certificate

Certificate No. CSA44621 3 of 3

Page

Calibration Result:

Acoustic Sensitivity and Frequency Response:

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

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	Expanded Uncertainty	Coverage Factor
			31.5	54.6	32.2	-22.4	0.15	2.0
			63	67.8	50.0	-17.8	0.13	2.0
			125	77.9	65.5	-12.4	0.13	2.0
			250	85.4	78.1	-7.3	0.12	2.0
			500	90.8	87.8	-3.0	0.14	2.0
30 to 130	Fast	94	1000 (Ref.)	94.0	93.8	-0.2	0.13	2.0
			2000	95.1	95.0	-0.1	0.13	2.0
			4000	94.9	93.5	-1.4	0.13	2.0
			8000	92.9	89.6	-3.3	0.14	2.0
			12500	89.7	83.4	-6.3	0.14	2.0
		2	16000	87.5	79.5	-8.0	0.14	2.0

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

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	Expanded Uncertainly	Coverage Factor
			31.5	91.0	67.6	-23.4	0.15	2.0
			63	93.2	75.4	-17.8	0.15	2.0
			125	93.8	81.6	-12.2	0.15	2.0
			250	94.0	86.8	-7.2	0.12	2.0
			500	94.0	91.2	-2.8	0.12	2.0
30 to 130	Fast	94	1000 (Ref.)	94.0	93.8	-0.2	0.13	2.0
			2000	93.7	93.6	-0.1	0.13	2.0
			4000	93.1	91.7	-1.4	0.13	2.0
			8000	91.0	87.7	-3.3	0.14	2.0
			12500	87.8	81.5	-6.3	0.14	2.0
			16000	85.6	77.5	-8.1	0.14	2.0

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

Range	Mode	Applied Level	Frequency (Hz)	Reference Level	UUT Reading	Deviation	Expanded Uncertainty	Coverage Factor
			31.5	94.0	70.6	-23.4	0.14	2.0
			63	94.0	76.3	-17.7	0.15	2.0
			125	94.0	81.8	-12.2	0.15	2.0
			250	94.0	86.8	-7.2	0.14	2.0
			500	94.0	91.1	-2.9	0.12	2.0
30 to 130	Fast	94	1000 (Ref.)	94.0	93.8	-0.2	0.13	2.0
			2000	94.0	93.8	-0.2	0.13	2.0
			4000	94.0	92.5	-1.5	0.13	2.0
			8000	94.0	90.6	-3.4	0.14	2.0
			12500	94.0	88.0	-6.0	0.14	2.0
			16000	94.0	87.2	-6.8	0.14	2.0

Remark:

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

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

- UUT reading are mean of three measurements:

- Deviation = UUT Reading - Reference Level



Appendix C2

Impact Noise Monitoring Results



Day-time Noise Monitoring

Monitoring Location: TKO-N1 (Site Egress)

Date	Start Sampling Time	Noise Level dB (A)			Wind	Weather	Major Noise
Date	(hh:mm)	L _{eq(30min)}	L ₁₀	L ₉₀	Speed (m/s)	Condition	Source
04/11/2024	09:15	63.4	65.0	60.7	0.2	Cloudy	Dump Truck passing by

Remark: 3dB(A) correction was added to the results during the free-field noise measurements

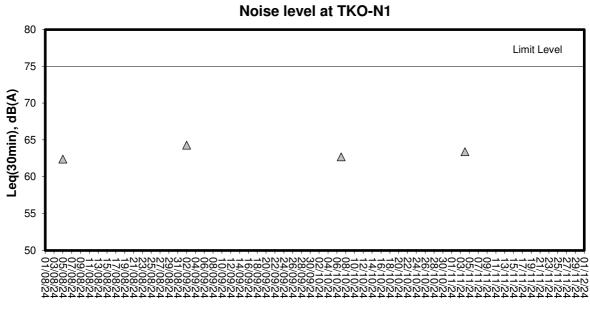


Appendix C3

Graphical Plots of Impact Noise Monitoring Data



Noise Monitoring (Day-time)



Date



Appendix D1

Calibration Certificates for Impact Marine Water Quality Monitoring Equipments



Performance Check / Calibration of Multiparameter Water Quality Meter

Manufacturer		YSI
Serial No.	:	18M101760
Calibration Due Date	:	13/1/2025
	Serial No.	Serial No.

<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)
20.2	20.3	+0.1
25.5	25.3	-0.2
28.6	28.7	+0.1

Tolerance Limit (°C): ± 2.0

2. pH

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

Displayed Reading (pH unit)	Tolerance (pH unit)
	Displayed Reading (pH unit)

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	144.4	-1.7	
1412	1425	+0.9	
12890	12973	+0.6	
58760	59385	+1.1	

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	10.11	+1.1	
20.0	20.18	+0.9	
30.0	30.46	+1.5	

Tolerance Limit (g/L): ± 10.0%



Performance Check / Calibration of Multiparameter Water Quality Meter

Equipment Ref. No. :	ET/EW/008/011	Manufacturer	i:	YSI
Model No.	Pro DSS	Serial No.	:	18M101760
Date of Calibration	14/10/2024	Calibration Due Date	8	13/1/2025

5. Dissolved Oxygen

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
1.96	2.00	+0.04
4.56	4.64	+0.08
5.88	6.16	+0.28

Tolerance Limit (mg/L): ± 0.20

6. Turbidity

(Method Reference: APHA 19ed 2130 B)

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)	
10	10.2	+2.00	
40	39.1	-2.25	
100	106	+6.00	
400	402	+0.50	

Tolerance Limit (NTU): ± 10.0%

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

[#] Delete as appropriate

Calibrated by

:

Approved by :



Appendix D2

Impact Marine Water Quality Monitoring Results

Monitoring Station : TKO-C1



_		Ambient Temp	Monitori	ng Depth	Temp	Salinit	ty (ppt)	Dissolv	ed Oxyger	ı (mg/L)		d Oxygen tion (%)	Tu	irbidity (NT	Ū)	Susper	nded Solids	s (mg/L)
Date	Time	(°C) / Weather Condition	(r		(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
		26	Surface	1.0	26.5	34.4 34.4	34.4	5.94 5.93	5.94	F 00	89.7 89.5	89.6	2.80 2.78	2.79		5.2 5.5	5.4	
1/11/2024	16:15:21		Middle	10.6	26.4	34.4 34.5	34.4	5.91 5.92	5.92	5.93	89.1 89.2	89.2	2.90 2.93	2.92	3.03	5.1 3.6	4.4	5.3
		/ Fine	Bottom	20.1	26.3	34.5 34.5	34.5	6.02 6.03	6.03	6.03	90.6 90.8	90.7	3.36	3.38		5.4 6.9	6.2	
		26	Surface	1.0	26.0	34.6 34.6	34.6	6.51 6.47	6.49	0.00	97.5 97.0	97.3	2.78 2.78	2.78		3.0 2.8	2.9	
4/11/2024	8:13:35		Middle	10.8	26.0	34.6 34.6	34.6	6.24 6.22	6.23	6.36	93.6 93.3	93.5	3.72 3.78	3.75	3.50	1.2 1.2	1.2	2.2
		/ Cloudy	Bottom	20.2	26.0	34.6 34.6	34.6	6.07 6.06	6.07	6.07	91.0 90.8	90.9	3.95 3.99	3.97		3.4 1.7	2.6	
		24	Surface	1.0	25.9	34.6 34.6	34.6	6.19 6.19	6.19	6.19	92.6 92.7	92.7	3.02 3.03	3.03		1.8 1.4	1.6	
7/11/2024	10:25:38		Middle	11.6	25.9	34.6 34.6	34.6	6.18 6.18	6.18		92.5 92.4	92.5	3.12 3.14	3.13	3.22	1.6 2.6	2.1	2.1
		/ Cloudy	Bottom	21.9	25.9	34.6 34.6	34.6	6.16 6.16	6.16	6.16	92.2 92.1	92.2	3.51 3.52	3.52		1.9 3.0	2.5	
		25	Surface	1.0	25.7	34.5 34.5	34.5	6.36 6.38	6.37	6.36	94.7 94.9	94.8	1.84	1.84		1.5 3.3	2.4	-
9/11/2024	13:19:12	(Olavata	Middle	11.4	25.6	34.5 34.6	34.5	6.35 6.35	6.35		94.5 94.5	94.5	1.95	1.95	1.97	2.8 4.9	3.9	4.1
		/ Cloudy	Bottom	21.7	25.6	34.6 34.6	34.6	6.32 6.31 6.24	6.32	6.32	94.1 93.9	94.0	2.09	2.12		5.5 6.6	6.1	
		24	Surface	1.0	25.5	34.5 34.5 34.5	34.5	6.24 6.25 6.23	6.25	6.24	92.7 92.7 92.5	92.7	2.62	2.63		2.7 2.7	2.7	
11/11/2024	14:00:50	/ Fine	Middle	12.2	25.5	34.5 34.5 34.5	34.5	6.23 6.14	6.23		92.5 92.4 91.2	92.5	2.96 3.08 3.46	3.02	3.03	1.9 1.6 4.3	1.8	2.8
		/ 1 1110	Bottom	21.4	25.5	34.5	34.5	6.12	6.13	6.13	90.8	91.0	3.43	3.45		3.4	3.9	
			-															
						34.7		6.36			94.2		2.32			2.8		
		24	Surface	1.0	25.3	34.7 34.8	34.7	6.35 6.30	6.36	6.33	94.1 93.2	94.2	2.34	2.33		1.9	2.4	
15/11/2024	15:30:45	/ Rain	Middle	10.9	25.2	34.8 34.8	34.8	6.30 6.25	6.30		93.2 92.5	93.2	2.50 2.76	2.49	2.53	2.9 2.8	2.9	3.0
			Bottom	20.7	25.2	34.8 34.1	34.8	6.23 6.70	6.24	6.24	92.2 98.5	92.4	2.79 3.39	2.78		4.7 2.9	3.8	
10/11/0004	0.10.10	24	Surface Middle	1.0	25.1	34.1 34.1	34.1	6.57 6.21	6.64	6.42	96.7 91.4	97.6	3.35 3.03	3.37	3.29	2.6 2.3	2.8	
18/11/2024	8:18:12	/ Cloudy	Bottom	22.0	25.1 25.1	34.1 34.0	34.1 34.0	6.21 6.14	6.21 6.13	6.13	91.4 90.4	91.4 90.2	3.04 3.52	3.04 3.47	3.29	2.0 2.4	3.4	2.8
			Surface	1.0	24.3	34.0 33.6	33.6	6.12 6.16	6.16	0.15	90.0 89.2	89.2	3.41 2.66	2.66		4.3 5.2	5.2	
21/11/2024	10:13:19	19	Middle	11.5	24.3	33.6 33.7	33.7	6.16 6.15	6.15	6.16	89.2 89.1	89.1	2.65 3.19	3.22	3.21	5.2 6.3	6.2	5.7
21/11/2024	10.10.10	/ Rain	Bottom	21.7	24.4	33.7 33.7	33.7	6.15 6.15	6.15	6.15	89.1 89.1	89.1	3.24 3.74	3.75	0.21	6.1 5.2	5.7	0.7
			Surface	1.0	23.7	33.7 33.5	33.5	6.14 6.44	6.44		89.0 92.3	92.3	3.76 2.37	2.38		6.1 3.0	2.4	
23/11/2024	12:14:12	20	Middle	11.3	23.7	33.5 33.5	33.5	6.44 6.43	6.43	6.44	92.3 92.2	92.2	2.39 2.46	2.49	2.61	1.8 1.3	1.6	2.1
		/ Cloudy	Bottom	21.1	23.8	33.6 33.7	33.7	6.43 6.44	6.45	6.45	92.2 92.5	92.6	2.51	2.95		1.8 1.8	2.4	
		22	Surface	1.0	23.7	33.7 33.5	33.5	6.45 6.61	6.62		92.6 94.6	94.7	2.95	2.67		2.9 1.9	2.0	
25/11/2024	13:00:26	22	Middle	11.2	23.6	33.5 33.5 33.6	33.5	6.62 6.57 6.55	6.56	6.59	94.8 93.9 93.6	93.8	2.67 2.94 2.96	2.95	2.92	2.0 1.9	2.2	2.1
		/ Cloudy	Bottom	21.2	23.6	33.6 33.6 33.6	33.6	6.55 6.52 6.52	6.52	6.52	93.6 93.2 93.2	93.2	2.96 3.12 3.16	3.14		2.4 2.1 2.5	2.3	
		19	Surface	1.0	23.1	33.8 33.8	33.8	6.80 6.80	6.80		95.2 96.6 96.6	96.6	2.28	2.28		2.5 3.0 4.8	3.9	
27/11/2024	14:19:07		Middle	11.4	23.1	33.8 33.8	33.8	6.79 6.80	6.80	6.80	96.4 96.5	96.5	2.35	2.37	2.36	4.8 3.3 2.7	3.0	3.1
		/ Fine	Bottom	21.4	23.1	33.8 33.8	33.8	6.80 6.80	6.80	6.80	96.5 96.5	96.5	2.43	2.43		2.7 2.7 2.0	2.4	
		18	Surface	1.0	22.2	34.0 33.9	34.0	7.26	7.26	.	101.4 101.3	101.4	1.67	1.72		3.9 3.2	3.6	
29/11/2024	15:00:07	-	Middle	11.3	22.3	33.8 33.8	33.8	7.16	7.16	7.21	100.3	100.3	1.81	1.79	1.81	2.9 2.4	2.7	2.8
1		/ Fine	Bottom	21.7	22.3	33.9	33.9	7.12	7.12	7.12	99.7	99.7	1.89	1.93		2.1	2.1	1

Remark: The SS value below 1.0 mg/L is reported as "1.0" mg/L and highlighted in yellow in the table. Water quality monitoring (Mid-Flood) on 13/11/2024 was cancelled due to the adverse weather condition (THe Tropical Cyclone Signal No.3).

Monitoring Station : TKO-M4



Monitoring		IKO-M4 Ambient Temp				Salinit	y (ppt)	Dissolv	ved Oxyger	n (mg/L)		d Oxygen	Τι	urbidity (NT	-U)	Susper	nded Solids	s (mg/L)
Date	Time	(°C) / Weather Condition	Monitorir (n		Temp (°C)	Value	Average	Value	Average	Depth-	Satura Value	tion (%) Average	Value	Average	Depth-	Value	Average	Depth-
			Surface	1.0	26.6	34.4	34.4	5.90	5.90	average	89.2	89.2	2.69	2.68	average	6.6	5.8	average
1/11/2024	17:20:04	26	Middle	5.5	26.5	34.4 34.4	34.4	5.89 5.88	5.88	5.89	89.1 88.8	88.8	2.67 2.77	2.78	2.77	4.9 6.9	6.9	5.7
		/ Fine	Bottom	10.2	26.4	34.4 34.5	34.5	5.88 5.95	5.96	5.96	88.8 89.7	89.8	2.78 2.84	2.85		6.8 6.0	4.6	
			Surface	1.0	26.1	34.5 34.6	34.6	5.96 6.04	6.04	0.00	89.8 90.6	90.6	2.85 3.44	3.43		3.1 2.1	2.3	
4/11/2024	9:13:04	26	Middle	4.7	26.1	34.6 34.6	34.6	6.04 6.04	6.04	6.04	90.6 90.5	90.5	3.41 3.46	3.43	3.58	2.5 3.8	3.9	3.3
4/11/2024	9.13.04	/ Cloudy				34.6 34.6		6.04 6.03			90.5 90.5		3.49 3.82		3.30	3.9 4.3		3.3
			Bottom	8.4	26.0	34.6 34.6	34.6	6.03 6.20	6.03	6.03	90.4 92.7	90.5	3.83 2.41	3.83		2.9 1.2	3.6	
		24	Surface	1.0	26.0	34.6 34.6	34.6	6.20 6.19	6.20	6.20	92.7 92.7	92.7	2.43 2.51	2.42		1.8	1.5	
7/11/2024	11:56:07	/ Cloudy	Middle	5.9	26.0	34.6 34.6	34.6	6.19 6.19	6.19		92.7 92.6	92.7	2.51 2.63	2.51	2.52	4.1	3.1	2.5
			Bottom	10.9	26.0	34.6	34.6	6.18	6.19	6.19	92.6	92.6	2.61	2.62		2.9	2.9	
		25	Surface	1.0	25.6	34.5 34.5	34.5	6.49 6.49	6.49	6.47	96.6 96.6	96.6	1.95 1.93	1.94		4.9 2.9	3.9	
9/11/2024	14:45:20		Middle	5.2	25.6	34.5 34.5	34.5	6.46 6.45	6.46		96.2 96.0	96.1	1.85 1.90	1.88	1.91	6.3 5.2	5.8	5.4
		/ Cloudy	Bottom	9.4	25.6	34.5 34.6	34.5	6.42 6.41	6.42	6.42	95.5 95.4	95.5	1.90 1.91	1.91		6.9 6.4	6.7	
		24	Surface	1.0	25.5	34.5 34.4	34.4	6.23 6.23	6.23	6.22	92.4 92.5	92.5	2.93 2.87	2.90		3.6 3.6	3.6	
11/11/2024	15:15:45		Middle	5.8	25.5	34.5 34.5	34.5	6.21 6.22	6.22	6.22	92.2 92.2	92.2	3.01 3.03	3.02	3.16	2.3 4.6	3.5	3.3
		/ Fine	Bottom	9.5	25.5	34.5 34.5	34.5	6.18 6.18	6.18	6.18	91.7 91.8	91.8	3.58 3.56	3.57		3.7 2.1	2.9	
												-					-	
			Surface	1.0	25.2	34.7	34.7	6.43	6.43		95.1	95.1	2.22	2.24		3.4	4.2	
15/11/2024	16:41:43	24	Middle	5.0	25.2	34.7 34.7	34.7	6.43 6.39	6.39	6.41	95.1 94.5	94.5	2.25 2.36	2.36	2.36	4.9 4.3	5.0	4.1
		/ Rain	Bottom	9.1	25.2	34.7 34.7	34.7	6.38 6.35	6.34	6.34	94.4 93.9	93.8	2.36 2.47	2.48		5.7 2.5	3.2	
			Surface	1.0	25.1	34.8 34.1	34.1	6.33 6.21	6.21		93.7 91.4	91.4	2.49 3.47	3.41		3.9 3.9	4.6	
18/11/2024	9:28:07	24	Middle	5.1	25.1	34.1 34.1	34.1	6.21 6.20	6.20	6.21	91.4 91.2	91.2	3.35 3.65	3.69	3.56	5.2 4.2	4.2	4.0
10/11/2024	3.20.07	/ Cloudy				34.1 34.1		6.20 6.20		0.00	91.2 91.2		3.73 3.62		0.00	4.1 3.4		4.0
			Bottom	9.2	25.1	34.1 33.2	34.1	6.19 6.05	6.20	6.20	91.2 87.2	91.2	3.56 2.29	3.59		3.4 4.6	3.4	
		19	Surface	1.0	24.2	33.3 33.4	33.3	6.05 6.06	6.05	6.05	87.3 87.5	87.3	2.33 2.68	2.31		5.1 3.4	4.9	
21/11/2024	11:29:04	/ Rain	Middle	5.3	24.3	33.5 33.7	33.4	6.05 6.03	6.06		87.6 87.5	87.6	2.75	2.72	2.83	6.4 5.9	4.9	5.0
		/ Hain	Bottom	9.8	24.4	33.7	33.7	6.02	6.03	6.03	87.4	87.5	3.53	3.48		4.8	5.4	
		20	Surface	1.0	23.8	33.6 33.6	33.6	6.45 6.45	6.45	6.45	92.5 92.5	92.5	2.49 2.47	2.48		1.1 2.0	1.6	-
23/11/2024	13:30:04		Middle	5.3	23.8	33.6 33.6	33.6	6.45 6.45	6.45		92.5 92.5	92.5	2.58	2.60	2.61	2.9 2.0	2.5	2.3
		/ Cloudy	Bottom	9.6	23.8	33.6 33.6	33.6	6.45 6.45	6.45	6.45	92.5 92.5	92.5	2.75 2.77	2.76		3.0 2.6	2.8	
		22	Surface	1.0	23.6	33.5 33.5	33.5	6.58 6.58	6.58	6.58	94.0 94.0	94.0	2.53 2.56	2.55		1.4 2.3	1.9	
25/11/2024	14:05:15		Middle	5.0	23.6	33.6 33.6	33.6	6.58 6.58	6.58	0.00	94.1 94.1	94.1	2.88 2.89	2.89	2.84	4.4 3.5	4.0	3.2
		/ Cloudy	Bottom	9.2	23.6	33.6 33.6	33.6	6.57 6.57	6.57	6.57	94.0 94.0	94.0	3.07 3.08	3.08		3.3 4.2	3.8	
		19	Surface	1.0	23.1	33.8 33.8	33.8	6.81 6.81	6.81		96.6 96.6	96.6	2.30 2.29	2.30		2.7 3.1	2.9	
27/11/2024	15:28:08		Middle	5.6	23.1	33.8 33.8	33.8	6.81 6.80	6.81	6.81	96.6 96.6	96.6	2.25 2.21	2.23	2.24	1.6	2.2	3.0
		/ Fine	Bottom	10.5	23.1	33.8 33.8	33.8	6.80 6.80	6.80	6.80	96.5 96.5	96.5	2.23	2.21		4.5	4.1	
		18	Surface	1.0	22.3	33.8	33.8	7.40	7.39		103.6	103.4	1.54 1.45	1.50		3.9	3.2	
29/11/2024	16:15:01	10	Middle	5.7	22.3	33.8 33.8	33.8	7.37	7.23	7.31	103.2 101.4	101.2	1.88	1.87	1.79	2.4 3.6	3.4	3.4
		/ Fine	Bottom	9.0	22.3	33.8 33.8	33.8	7.21 7.14	7.14	7.14	100.9 99.9	99.9	1.86 2.03	2.02		3.2 2.9	3.7	
			Dottom	0.0	0	33.8	00.0	7.13			99.8	00.0	2.00	2.02		4.4	0.7	

Remark: The SS value below 1.0 mg/L is reported as "1.0" mg/L and highlighted in yellow in the table. Water quality monitoring (Mid-Flood) on 13/11/2024 was cancelled due to the adverse weather condition (THe Tropical Cyclone Signal No.3).

Mid-Ebb Tide

Monitoring Station : TKO-C1



Monitoring	Station .										Discolvo	d Ovvaon	1		1	<u>r</u>		
Date	Time	Ambient Temp (°C) / Weather		ng Depth	Temp	Salinit	y (ppt)	Dissolv	ed Oxyger			d Oxygen tion (%)	Tu	rbidity (NT		Susper	nded Solids	
		Condition	(f	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- averag
		26	Surface	1.0	26.5	34.4 34.4	34.4	5.95 5.95	5.95	5.04	89.8 89.7	89.8	2.92 2.90	2.91		7.0 6.3	6.7	
1/11/2024	11:13:05		Middle	10.2	26.4	34.4 34.4	34.4	5.93 5.93	5.93	5.94	89.4 89.5	89.5	2.84 2.80	2.82	3.09	5.4 5.3	5.4	6.1
		/ Fine	Bottom	19.2	26.3	34.5 34.5	34.5	6.06 6.06	6.06	6.06	91.2 91.3	91.3	3.49 3.56	3.53		6.4 6.4	6.4	
		26	Surface	1.0	26.1	34.6 34.6	34.6	6.02 6.03	6.03		90.3 90.4	90.4	3.61 3.65	3.63		3.3 3.5	3.4	
4/11/2024	12:48:46	20	Middle	11.7	26.1	34.6 34.6	34.6	6.03 6.03	6.03	6.03	90.5 90.4	90.5	3.71 3.73	3.72	3.77	3.3 2.6	3.0	2.8
		/ Cloudy	Bottom	23.1	26.1	34.6 34.6	34.6	6.00 5.99	6.00	6.00	89.9 89.9	89.9	3.95 3.94	3.95		1.8	2.0	
		24	Surface	1.0	26.0	34.5 34.5	34.5	6.73 6.66	6.70		100.7 99.7	100.2	2.13	2.13		4.8	3.8	
7/11/2024	5:24:38		Middle	11.2	26.0	34.6 34.6	34.6	6.22	6.22	6.46	93.2 93.1	93.2	2.52	2.55	2.62	4.7	5.2	3.8
		/ Cloudy	Bottom	21.5	25.9	34.6 34.6	34.6	6.19 6.19	6.19	6.19	92.6 92.6	92.6	3.21 3.18	3.20		2.3 2.6	2.5	
		25	Surface	1.0	25.6	34.4 34.4	34.4	7.07 7.01	7.04		105.0 104.2	104.6	1.89 1.89	1.89		5.5 4.4	5.0	
9/11/2024	7:20:19		Middle	11.8	25.6	34.6 34.6	34.6	6.66 6.63	6.65	6.84	99.1 98.7	98.9	1.98 1.94	1.96	2.14	6.6 4.7	5.7	4.9
		/ Cloudy	Bottom	22.5	25.6	34.6 34.6	34.6	6.50 6.49	6.50	6.50	96.8 96.6	96.7	2.53 2.61	2.57		4.8 3.3	4.1	
		24	Surface	1.0	25.5	34.3 34.3	34.3	7.10 6.84	6.97	6.71	105.2 101.4	103.3	1.99 1.96	1.98		4.0 5.2	4.6	
11/11/2024	8:01:12		Middle	11.1	25.6	34.5 34.5	34.5	6.46 6.43	6.45	6.71	96.1 95.6	95.9	2.27 2.31	2.29	2.45	6.9 3.5	5.2	4.5
		/ Fine	Bottom	20.8	25.5	34.5 34.5	34.5	6.23 6.23	6.23	6.23	92.6 92.6	92.6	3.09 3.08	3.09		4.7 2.4	3.6	
		25	Surface	1.0	25.5	34.5 34.4	34.5	6.29 6.30	6.30	6.28	93.3 93.4	93.4	2.69 2.59	2.64		3.1 4.4	3.8	
13/11/2024	9:45:34		Middle	11.2	25.4	34.6 34.6	34.6	6.27 6.27	6.27	0.20	93.0 93.0	93.0	2.77 2.71	2.74	2.90	3.5 3.1	3.3	4.1
		/ Rain	Bottom	21.3	25.4	34.6 34.6	34.6	6.25 6.25	6.25	6.25	92.8 92.8	92.8	3.24 3.37	3.31		4.5 5.9	5.2	
		24	Surface	1.0	25.2	34.7 34.7	34.7	6.56 6.55	6.56	6.51	97.0 96.9	97.0	2.45 2.42	2.44		5.9 5.1	5.5	
15/11/2024	11:10:40		Middle	11.1	25.2	34.8 34.8	34.8	6.48 6.45	6.47	0.01	95.9 95.4	95.7	2.61 2.64	2.63	2.68	2.6 5.8	4.2	3.8
		/ Rain	Bottom	21.2	25.2	34.8 34.8	34.8	6.43 6.43	6.43	6.43	95.2 95.2	95.2	2.98 3.00	2.99		2.0 1.2	1.6	
		24	Surface	1.0	25.1	34.1 34.1	34.1	6.21 6.21	6.21	6.21	91.4 91.4	91.4	2.86 2.80	2.83		2.1 3.5	2.8	
18/11/2024	12:44:18		Middle	11.1	25.1	34.1 34.1	34.1	6.21 6.22	6.22		91.4 91.5	91.5	3.53 3.58	3.56	3.35	6.5 6.5	6.5	4.8
		/ Cloudy	Bottom	21.3	25.1	34.1 34.1	34.1	6.23 6.24	6.24	6.24	91.7 91.8	91.8	3.68 3.66	3.67		5.3 4.6	5.0	
		19	Surface	1.0	24.2	33.5 33.5	33.5	6.53 6.48	6.51	6.38	94.5 93.6	94.1	2.63 2.74	2.69		4.8 5.9	5.4	
21/11/2024	6:10:26		Middle	11.9	24.3	33.6 33.6	33.6	6.26 6.25	6.26		90.6 90.5	90.6	3.02 3.13	3.08	3.19	6.3 6.2	6.3	5.9
		/ Rain	Bottom	22.7	24.4	33.7 33.7	33.7	6.21 6.21	6.21	6.21	90.0 90.0	90.0	3.80 3.81	3.81		6.2 5.7	6.0	
		20	Surface	1.0	23.7	33.5 33.5	33.5	6.77 6.73	6.75	6.63	96.9 96.4	96.7	2.34 2.41	2.38		2.2 3.0	2.6	
23/11/2024	7:20:15	(0)	Middle	11.7	23.8	33.6 33.6	33.6	6.52 6.51	6.52		93.5 93.4	93.5	2.61 2.59	2.60	2.63	4.1 3.9	4.0	3.1
		/ Cloudy	Bottom	22.1	23.8	33.7 33.7	33.7	6.48 6.49	6.49	6.49	93.1 93.1	93.1	2.92 2.92	2.92		2.0 3.4	2.7	<u> </u>
		22	Surface	1.0	23.8	33.3 33.3	33.3	6.82 6.82	6.82	6.80	97.7 97.7	97.7	2.45 2.46	2.46		2.9 4.0	3.5	
25/11/2024	8:00:44	/ Cloudy	Middle	11.5	23.8	33.5 33.5	33.5	6.79 6.78	6.79		97.4 97.2	97.3	2.97 2.99 3.05	2.98	2.83	3.9 3.3	3.6	3.8
		, cioudy	Bottom	22.1	23.7	33.6 33.6 33.8	33.6	6.75 6.73 6.86	6.74	6.74	96.7 96.4 97.3	96.6	3.05 3.06 2.28	3.06		3.1 5.8 3.3	4.5	
		19	Surface	1.0	23.1	33.8 33.8	33.8	6.85 6.81	6.86	6.83	97.3 97.2 96.6	97.3	2.26 2.35	2.27		2.8 4.4	3.1	-
27/11/2024	9:15:19	/ Fine	Middle	11.2	23.1	33.8 33.8	33.8	6.81 6.81	6.81		96.6 96.6	96.6	2.34 2.34	2.35	2.32	4.4 3.8 1.3	4.1	3.1
			Bottom	21.8	23.1	33.8 33.8	33.8	6.81 7.95	6.81	6.81	96.6 111.3	96.6	2.34 2.35 1.68	2.35		2.7	2.0	
		18	Surface	1.0	22.3	33.8 33.8	33.8	7.93 7.50	7.94	7.71	111.3 111.1 105.0	111.2	1.70	1.69		2.9 2.6 3.8	2.8	-
29/11/2024	10:30:12	/ Fine	Middle	10.6	22.3	33.8 33.9	33.8	7.47	7.49		103.0 104.7 102.2	104.9	1.90 1.85	1.90	1.81	2.4 3.9	3.1	3.3
		, 1 113	Bottom	20.0	22.3	33.9	33.9	7.29	7.30	7.30	102.2	102.1	1.82	1.84		3.9 4.4	4.2	

Mid-Ebb Tide

Monitoring Station : TKO-M4



		Ambient Temp			Temp	Salinit	ty (ppt)	Dissolv	ed Oxyger	n (mg/L)		d Oxygen tion (%)	Τι	rbidity (NT	U)	Susper	ided Solids	s (mg/L)
Date	Time	(°C) / Weather Condition	Monitoring I	Depth (m)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	26.5	34.4	34.4	5.90	5.90		89.0	89.0	2.77	2.76		3.5	4.4	
		26				34.4 34.4		5.90 5.89		5.90	89.0 88.9		2.75 2.79			5.3 3.7		
1/11/2024	12:21:05		Middle	4.7	26.5	34.4	34.4	5.89	5.89		88.9	88.9	2.76	2.78	2.82	4.3	4.0	4.7
		/ Fine	Bottom	8.1	26.4	34.5	34.5	5.92 5.93	5.93	5.93	89.3 89.4	89.4	2.91 2.92	2.92		6.8	5.6	
						34.5 34.6		6.02			89.4 90.3		3.51			4.4 2.5		
		26	Surface	1.0	26.0	34.6	34.6	6.02	6.02	6.02	90.3	90.3	3.48	3.50		1.8	2.2	
4/11/2024	13:58:08		Middle	5.6	26.1	34.6 34.6	34.6	6.03 6.02	6.03	0.02	90.3 90.3	90.3	3.50 3.55	3.53	3.60	2.4 4.1	3.3	3.0
		/ Cloudy			00.0	34.6		6.02		0.04	90.3	00.4	3.55	0.77		4.1		
			Bottom	9.4	26.0	34.6	34.6	6.01	6.01	6.01	90.1	90.1	3.79	3.77		3.2	3.6	
		24	Surface	1.0	26.0	34.6 34.6	34.6	6.20 6.19	6.20		92.8 92.7	92.8	2.36 2.33	2.35		2.7 3.0	2.9	
7/11/2024	6:30:09		Middle	4.2	26.0	34.6	34.6	6.19	6.19	6.19	92.7	92.7	2.44	2.46	2.47	3.3	3.4	2.9
7/11/2024	0.50.05	(0)	Widdle	7.2	20.0	34.6	34.0	6.19	0.15		92.7	52.7	2.48	2.40	2.47	3.5	0.4	. 2.5
		/ Cloudy	Bottom	7.5	26.0	34.6 34.6	34.6	6.18 6.18	6.18	6.18	92.6 92.5	92.6	2.61 2.59	2.60		3.5	2.3	
			Surface	1.0	25.6	34.5	34.5	6.52	6.52		96.9	96.9	1.81	1.81		4.9	4.8	
		25	Gundoo		20.0	34.5 34.5	0 1.0	6.52	0.02	6.52	96.9	00.0	1.80			4.6		
9/11/2024	8:39:03		Middle	4.9	25.6	34.5	34.5	6.52 6.51	6.52		96.9 96.8	96.9	1.82 1.83	1.83	1.82	4.3 5.7	5.0	4.9
		/ Cloudy	Bottom	8.6	25.6	34.5	34.6	6.46	6.45	6.45	96.1	95.9	1.83	1.84		5.0	5.0	
						34.6 34.4		6.43 6.27			95.7 93.1		1.84 2.45			5.0 2.8		
		24	Surface	1.0	25.5	34.4	34.4	6.27	6.27	6.28	93.1	93.1	2.45	2.45		2.0	2.4	
11/11/2024	9:14:34		Middle	4.9	25.5	34.4	34.4	6.28	6.28	0.20	93.1	93.1	2.37	2.36	2.43	3.8	4.0	3.6
	/ Fine				34.4 34.4		6.28 6.27	-		93.1 93.0		2.35 2.48			4.2 3.8		1	
		,	Bottom	9.4	25.5	34.4	34.4	6.26	6.27	6.27	92.9	93.0	2.49	2.49		5.1	4.5	
		25	Surface	1.0	25.4	34.5	34.5	6.28 6.28	6.28		93.2	93.2	2.92 2.99	2.96		3.7	4.7	
10/11/0001	10 50 10	25	NC LU	47	05.4	34.5 34.5	04.5	6.28	0.07	6.28	93.2 93.0	00.0	3.21	0.01	0.10	5.6 3.2		
13/11/2024 10:52:48		Middle	4.7	25.4	34.5	34.5	6.27	6.27		93.0	93.0	3.20	3.21	3.13	3.0	3.1	4.3	
		/ Rain	Bottom	7.8	25.4	34.5 34.5	34.5	6.27 6.27	6.27	6.27	93.0 93.0	93.0	3.22 3.24	3.23		5.3 4.8	5.1	
			Surface	1.0	25.2	34.7	34.7	6.55	6.54		96.9	96.7	2.41	2.43		3.9	3.3	
		24	Guilace	1.0	20.2	34.8	54.7	6.52	0.34	6.50	96.5	30.7	2.44 2.47	2.40		2.6	0.0	
15/11/2024	12:22:52		Middle	4.6	25.2	34.8 34.8	34.8	6.46 6.45	6.46		95.6 95.5	95.6	2.47	2.48	2.55	3.9 2.0	3.0	3.4
		/ Rain	Bottom	8.3	25.2	34.8	34.8	6.38	6.37	6.37	94.4	94.3	2.72	2.74		4.4	4.1	
						34.8 34.1		6.36 6.16			94.1 90.6		2.75 2.62			3.7 3.1		
		24	Surface	1.0	25.1	34.1	34.1	6.15	6.16	6.16	90.6	90.6	2.74	2.68		2.4	2.8	
18/11/2024	14:09:05		Middle	4.6	25.1	34.1	34.1	6.15	6.16	0.10	90.6	90.7	3.09	3.13	2.97	6.3	5.6	4.7
		/ Cloudy				34.1 34.1		6.16 6.18			90.7 90.9		3.16 3.12			4.9 4.9		1
			Bottom	8.1	25.1	34.1	34.1	6.18	6.18	6.18	91.0	91.0	3.10	3.11		6.8	5.9	
		19	Surface	1.0	24.3	33.6 33.6	33.6	6.16 6.16	6.16		89.1 89.1	89.1	2.37 2.39	2.38		5.8 5.9	5.9	
21/11/2024	7:06:17		Middle	4.7	24.3	33.6	33.6	6.15	6.15	6.16	89.1	89.1	2.55	2.60	2.61	4.7	5.0	5.4
21/11/2024	7.00.17	(Dein	Widdle	4.7	24.5	33.6	55.0	6.15	0.15		89.1	00.1	2.65	2.00	2.01	5.3	5.0	
		/ Rain	Bottom	8.9	24.3	33.6 33.6	33.6	6.15 6.15	6.15	6.15	89.0 89.0	89.0	2.88 2.84	2.86		6.1 4.7	5.4	
			Surface	1.0	23.7	33.5	33.5	6.44	6.44		92.2	92.2	2.33	2.37		1.1	1.3	
		20				33.5 33.5		6.44 6.44		6.44	92.2 92.2		2.40 2.40			1.5 2.3		
23/11/2024	8:19:07		Middle	4.3	23.7	33.5	33.5	6.44	6.44		92.2	92.2	2.42	2.41	2.41	2.2	2.3	2.2
		/ Cloudy	Bottom	7.5	23.8	33.6	33.6	6.44	6.44	6.44	92.3	92.3	2.47	2.47		3.2	2.9	
			0.4		00.7	33.6 33.4	00.4	6.44 6.58	0.50		92.3 94.2		2.46 2.50	0.50		2.6 5.6	4.5	
		22	Surface	1.0	23.7	33.4	33.4	6.57	6.58	6.57	94.0	94.1	2.50	2.50		3.3	4.5	
25/11/2024	9:14:06		Middle	4.5	23.7	33.5 33.5	33.5	6.56 6.56	6.56		93.9 93.9	93.9	2.87 2.88	2.88	2.78	3.7 4.5	4.1	3.9
		/ Cloudy	Bottom	8.0	23.6	33.5	33.5	6.53	6.53	6.53	93.3	93.3	2.95	2.97		4.4	3.2	1
			Bottom	0.0	23.0	33.5	33.5	6.53	0.55	0.00	93.3	55.5	2.98	2.57		2.0	5.2	
		19	Surface	1.0	23.1	33.8 33.8	33.8	6.80 6.80	6.80		96.5 96.5	96.5	2.34 2.38	2.36		2.0 2.7	2.4	
27/11/2024	10:26:13		Middle	4.1	23.1	33.8	33.8	6.79	6.79	6.80	96.4	96.4	2.33	2.31	2.33	3.4	3.4	3.2
		/ Fino			_0.1	33.8	00.0	6.79	0.70		96.4	00.4	2.29	2.01	2.00	3.3	0.7	0.2
		/ Fine	Bottom	7.7	23.1	33.8 33.8	33.8	6.79 6.80	6.80	6.80	96.4 96.5	96.5	2.30 2.31	2.31		3.1 4.5	3.8	
			Surface	1.0	22.3	33.8	33.8	7.37	7.36		103.2	103.0	1.95	1.95		4.1	4.2	
		18				33.8 33.8		7.34 7.21		7.28	102.8 100.9		1.94 1.86			4.2		
29/11/2024	11:38:02		Middle	4.8	22.3	33.8	33.8	7.21	7.20		100.9	100.8	1.86	1.83	1.86	2.8 3.2	3.0	3.7
		/ Fine	Bottom	7.4	22.3	33.8	33.8	7.13	7.13	7.13	99.8	99.8	1.81	1.81		3.3	4.0	
		1	1	1		33.8		7.12			99.7		1.80			4.7		I

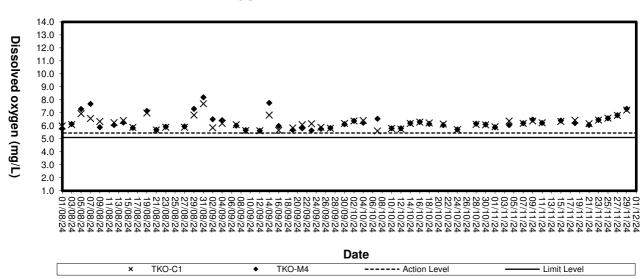
Remark: The SS value below 1.0 mg/L is reported as "1.0" mg/L and highlighted in yellow in the table.



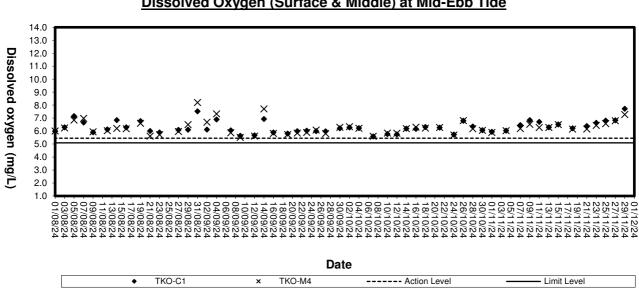
Appendix D3

Graphical Plots of Impact Marine Water Quality Monitoring Data



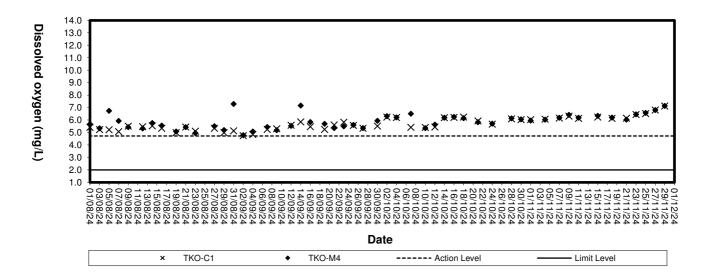


Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide



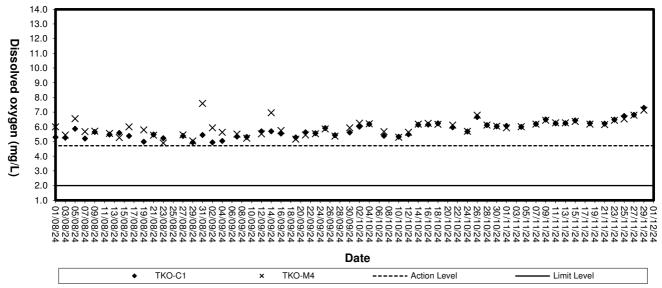
Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide



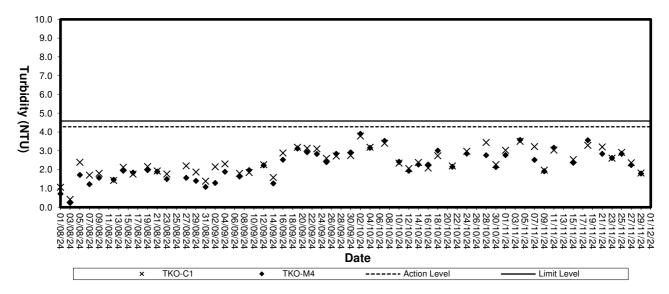


Dissolved Oxygen (Bottom) at Mid-Flood Tide



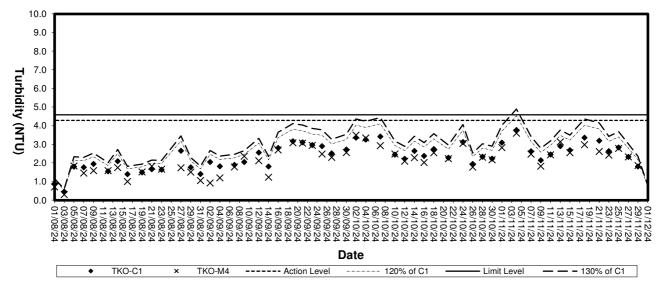




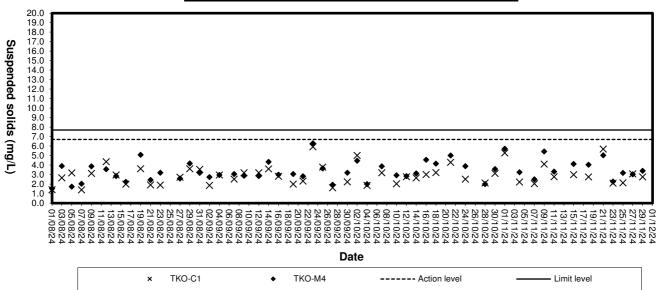


Turbidity (Depth-average) at Mid-Flood Tide



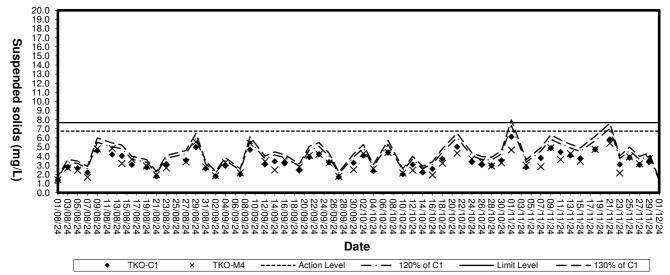






Suspended solids (Depth-average) at Mid-Flood Tide

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





Appendix D4

Impact Marine Water Quality Monitoring Results (3RS Project)

東 業 徳 勤 測 試 顧 問 有 限 公 司 ETS-TESTCONSULT LIMITED

Monitoring Station : TKO-C1a

Monitoring	Station .	TKO-C1a	-												1			
Date	Time	Ambient Temp	Monitorir	ng Depth	Temp	Salinit	ty (ppt)	Dissolv	ed Oxyger	n (mg/L)		d Oxygen tion (%)	Tı	urbidity (NT	'U)	Susper	nded Solids	s (mg/L)
Date	Time	(°C) / Weather Condition	(n	n)	(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
			Surface	1.0	26.6	34.4	34.4	5.88	5.88	u. e. uge	88.9	88.8	2.57	2.58	u. e. uge	3.7	4.1	u. c. ugo
1/11/0004	10.01.05	26		10.7	00.5	34.4 34.4		5.87 5.86	5.07	5.87	88.7 88.4	00.5	2.58 2.76	0.70	0.07	4.5 4.9	4.5	
1/11/2024	16:31:05	(5)	Middle	10.7	26.5	34.4	34.4	5.87	5.87		88.6	88.5	2.79	2.78	2.87	4.1	4.5	3.9
		/ Fine	Bottom	19.9	26.3	34.5 34.5	34.5	5.98 6.00	5.99	5.99	90.1 90.3	90.2	3.24 3.27	3.26		3.0 3.4	3.2	
		00	Surface	1.0	26.1	34.6	34.6	6.04	6.04		90.5	90.6	3.56	3.55		2.1	3.3	
4/11/0004	0.00.00	26	Mistella	10.0	00.0	34.6 34.6	04.0	6.04 6.03	C 00	6.04	90.6 90.4	00.4	3.53 3.63	0.04	0.05	4.5 3.4		
4/11/2024	8:28:08	/ Cloudy	Middle	10.2	26.0	34.6	34.6	6.03	6.03		90.4	90.4	3.64	3.64	3.65	2.5	3.0	3.6
		/ Cloudy	Bottom	19.5	26.0	34.6 34.6	34.6	6.03 6.03	6.03	6.03	90.4 90.4	90.4	3.73 3.83	3.78		4.6 4.4	4.5	
		24	Surface	1.0	25.9	34.6 34.6	34.6	6.19 6.19	6.19		92.6 92.6	92.6	3.05 3.06	3.06		3.1 4.8	4.0	
7/11/2024	10:57:06	24	Middle	10.1	25.9	34.6	34.6	6.18	6.18	6.19	92.0	92.4	3.29	3.28	3.24	3.3	3.2	3.8
//11/2024	10.57.00	/ Cloudy	Wildule	10.1	20.0	34.6 34.6	34.0	6.18 6.17	0.10		92.4 92.2	32.4	3.27 3.37	5.20	5.24	3.1 3.9	5.2	5.0
		/ Oloudy	Bottom	19.4	25.9	34.6	34.6	6.17	6.17	6.17	92.2	92.3	3.38	3.38		4.3	4.1	
		25	Surface	1.0	25.6	34.5 34.5	34.5	6.37 6.39	6.38		94.8 95.1	95.0	1.92 1.92	1.92		3.1 2.9	3.0	
9/11/2024	13:34:08	20	Middle	10.5	25.6	34.6	34.6	6.37	6.37	6.38	94.8	94.8	2.22	2.18	2.19	5.1	5.1	3.9
5/11/2024	10.04.00	/ Cloudy	Wilddie	10.0	20.0	34.6 34.6	04.0	6.37 6.35	0.07		94.8 94.5	04.0	2.14 2.50	2.10	2.10	5.1 3.4	0.1	0.0
		/ Oloudy	Bottom	20.2	25.6	34.6	34.6	6.35	6.35	6.35	94.5	94.5	2.46	2.48		3.5	3.5	
		24	Surface	1.0	25.5	34.5 34.5	34.5	6.23 6.23	6.23		92.4 92.4	92.4	2.79 2.79	2.79		2.1 4.1	3.1	
11/11/2024	14:20:47	24	Middle	10.8	25.5	34.5	34.5	6.22	6.22	6.22	92.3	92.3	3.03	3.03	3.13	5.1	4.9	4.1
11/11/2024	14.20.47	/ Fine	Wilddie			34.5 34.5		6.21 6.17			92.2 91.6		3.03 3.59		0.10	4.7		
		71110	Bottom	20.8	25.5	34.5	34.5	6.17	6.17	6.17	91.6	91.6	3.56	3.58		4.6	4.3	
		24	Surface	1.0	25.2	34.6 34.6	34.6	6.51 6.48	6.50		96.2 95.8	96.0	2.30 2.33	2.32		1.2 3.0	2.1	
15/11/2024	15:50:19		Middle	10.7	25.2	34.6	34.6	6.44	6.43	6.46	95.2	95.1	2.51	2.52	2.57	4.0	4.0	3.2
		/ Rain				34.6 34.7		6.42 6.35			94.9 93.9		2.53 2.87			3.9 4.4		
			Bottom	20.3	25.2	34.7	34.7	6.33	6.34	6.34	93.6	93.8	2.86	2.87		2.8	3.6	
		24	Surface	1.0	25.1	34.1 34.1	34.1	6.21 6.21	6.21		91.4 91.4	91.4	3.15 3.27	3.21		4.2 3.0	3.6	
18/11/2024	8:37:04		Middle	10.3	25.1	34.1	34.1	6.24	6.24	6.22	91.8	91.8	3.38	3.39	3.41	2.6	2.0	2.4
		/ Cloudy	D	10.7	05.4	34.1 34.1		6.23 6.22	0.00	0.00	91.7 91.6		3.40 3.62	0.04		1.4 1.4	4.5	
			Bottom	19.7	25.1	34.1	34.1	6.23	6.23	6.23	91.6	91.6	3.65	3.64		1.6	1.5	
		19	Surface	1.0	24.3	33.6 33.6	33.6	6.15 6.15	6.15	0.10	89.1 89.1	89.1	2.55 2.55	2.55		2.8 2.9	2.9	
21/11/2024	10:28:08		Middle	10.9	24.3	33.7	33.7	6.16	6.16	6.16	89.2	89.2	3.25	3.23	3.04	4.8	4.3	3.8
		/ Rain	Pottom	20.3	24.4	33.6 33.7	33.7	6.16 6.15	6.15	6.15	89.2 89.1	90.1	3.20 3.36	2.25		3.7 4.8	4.3	
			Bottom	20.3	24.4	33.7 33.5	33.7	6.15 6.45	0.10	0.10	89.1 92.5	89.1	3.34 2.53	3.35		3.8 2.3	4.3	
		20	Surface	1.0	23.8	33.5	33.5	6.45	6.45	6.45	92.5 92.4	92.5	2.51	2.52		1.6	2.0	
23/11/2024	12:28:04		Middle	10.5	23.8	33.6 33.6	33.6	6.45 6.45	6.45	5.40	92.6 92.6	92.6	2.76 2.73	2.75	2.67	3.6 4.0	3.8	3.1
		/ Cloudy	Bottom	20.2	23.8	33.7	33.7	6.45	6.45	6.45	92.6	92.6	2.77	2.76		2.6	3.6	
						33.7 33.4		6.45 6.59		5.10	92.6 94.3		2.74 2.71			4.6 3.0		
		22	Surface	1.0	23.7	33.4	33.4	6.56	6.58	6.56	93.9	94.1	2.72	2.72		2.9	3.0	
25/11/2024	13:24:26		Middle	10.3	23.6	33.5 33.5	33.5	6.54 6.54	6.54	2.00	93.5 93.5	93.5	3.05 3.08	3.07	2.98	4.2 3.6	3.9	3.8
		/ Cloudy	Bottom	19.7	23.6	33.5	33.5	6.53	6.53	6.53	93.3	93.3	3.14	3.15	1	4.3	4.6	
						33.5 33.8		6.52 6.82			93.2 96.8		3.16 2.35			4.8 1.8		
		19	Surface	1.0	23.1	33.8	33.8	6.82	6.82	6.82	96.7	96.8	2.35	2.35		2.1	2.0	
27/11/2024	14:35:08	<u> </u>	Middle	10.3	23.1	33.8 33.8	33.8	6.82 6.82	6.82	-	96.8 96.8	96.8	2.47 2.42	2.45	2.40	3.3 4.1	3.7	3.3
		/ Fine	Bottom	19.7	23.1	33.8	33.8	6.81	6.81	6.81	96.6	96.6	2.38	2.40		4.3	4.1	
			-			33.8 33.8		6.81 7.32			96.6 102.4		2.42 1.91			3.9 4.0		
		18	Surface	1.0	22.3	33.8	33.8	7.30	7.31	7.22	102.1	102.3	1.84	1.88		4.0	4.0	
29/11/2024	15:18:02		Middle	10.5	22.3	33.8 33.8	33.8	7.13 7.12	7.13		99.8 99.7	99.8	1.81 1.82	1.82	1.84	4.3 3.2	3.8	3.8
		/ Fine	Bottom	20.3	22.3	33.8	33.8	7.09	7.09	7.09	99.2	99.2	1.83	1.83	1	3.6	3.7	
				-	-	33.9	-	7.08	-	-	99.2	I	1.82	-		3.7		

Remark: The SS value below 1.0 mg/L is reported as "1.0" mg/L and highlighted in yellow in the table. Water quality monitoring (Mid-Flood Ebb) on 13/11/2024 was cancelled due to the adverse weather condition (THe Tropical Cyclone Signal No.3).

Monitoring Station : TKO-M4a



Monitoring		Ambient Temp	Monitorir	na Denth	Temp	Salinit	ty (ppt)	Dissolv	ed Oxyger	n (mg/L)		d Oxygen tion (%)	Tu	irbidity (NT	-U)	Susper	nded Solids	s (mg/L)
Date	Time	(°C) / Weather Condition	(n		(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
		26	Surface	1.0	26.6	34.4 34.4	34.4	5.87 5.86	5.87		88.7 88.6	88.7	2.68 2.67	2.68		4.5 4.5	4.5	
1/11/2024	16:44:05	20	Middle	8.5	26.5	34.4	34.4	5.86	5.86	5.86	88.4	88.5	2.75	2.76	2.82	4.0	3.6	4.1
		/ Fine		15.9	26.4	34.4 34.5	34.5	5.86 5.95	5.96	5.96	88.5 89.7	89.8	2.76 3.01	3.03		3.1 4.8	4.4	
			Bottom	15.9		34.5 34.6	34.5	5.97 6.05		5.96	89.9 90.7		3.04 3.53			3.9 4.6	4.4	
		26	Surface	1.0	26.1	34.6	34.6	6.05	6.05	6.04	90.7	90.7	3.58	3.56		3.5	4.1	
4/11/2024	8:38:09		Middle	9.8	26.0	34.6 34.6	34.6	6.04 6.03	6.04		90.5 90.5	90.5	3.66 3.65	3.66	3.69	3.6 3.3	3.5	3.8
		/ Cloudy	Bottom	18.7	26.0	34.6 34.6	34.6	6.02 6.02	6.02	6.02	90.3 90.2	90.3	3.88 3.81	3.85		4.1 3.5	3.8	
		24	Surface	1.0	26.0	34.6 34.6	34.6	6.20 6.20	6.20		92.8 92.8	92.8	2.55 2.56	2.56		3.7 4.6	4.2	
7/11/2024	11:19:05		Middle	10.3	25.9	34.6 34.6	34.6	6.18 6.18	6.18	6.19	92.5 92.5	92.5	2.94	2.93	2.84	3.8	4.1	3.9
		/ Cloudy	Bottom	19.6	25.9	34.6	34.6	6.16	6.16	6.16	92.2	92.2	3.03	3.03		4.3 4.4	3.5	1
			Surface	1.0	25.6	34.6 34.5	34.5	6.15 6.50	6.50		92.1 96.7	96.7	3.03 1.88	1.91		2.6 5.0	4.7	
		25				34.5 34.5		6.50 6.45		6.47	96.7 96.0		1.93 1.93			4.3 3.4		
9/11/2024	14:02:07	/ Cloudy	Middle	10.7	25.6	34.6 34.6	34.5	6.43	6.44		95.7 94.5	95.9	1.93 2.15	1.93	2.01	4.6	4.0	4.1
		/ Cloudy	Bottom	20.1	25.6	34.6	34.6	6.35 6.35	6.35	6.35	94.5	94.5	2.24	2.20		4.0 3.4	3.7	
		24	Surface	1.0	25.5	34.5 34.5	34.5	6.19 6.20	6.20	0.40	91.9 92.0	92.0	2.92 2.91	2.92		2.8 3.1	3.0	
11/11/2024	14:37:01		Middle	10.4	25.5	34.5 34.5	34.5	6.17 6.17	6.17	6.18	91.6 91.6	91.6	3.22 3.31	3.27	3.30	4.0 4.0	4.0	3.3
		/ Fine	Bottom	19.9	25.5	34.5	34.5	6.16	6.16	6.16	91.4	91.4	3.71	3.73		3.7	3.1	1
						34.5		6.16			91.4		3.74			2.4		
												ļ						l
												-						
		24	Surface	1.0	25.3	34.8 34.8	34.8	6.48 6.46	6.47	6.44	96.0 95.6	95.8	2.26 2.24	2.25		2.7 3.0	2.9	
15/11/2024	16:07:19		Middle	10.3	25.2	34.8 34.8	34.8	6.42 6.41	6.42	6.44	95.0 94.9	95.0	2.45 2.45	2.45	2.52	2.1 3.4	2.8	2.3
		/ Rain	Bottom	19.7	25.2	34.9	34.9	6.36	6.36	6.36	94.2	94.2	2.85	2.87		1.1	1.2	1
			Surface	1.0	25.1	34.9 34.1	34.1	6.36 6.19	6.19		94.2 91.1	91.1	2.89 2.81	2.88		1.2 2.4	2.1	
		24				34.1 34.1		6.19 6.19		6.19	91.1 91.0		2.94 3.33			1.8 4.0		
18/11/2024	8:48:06	/ Cloudy	Middle	10.8	25.1	34.1 34.1	34.1	6.19 6.22	6.19		91.1 91.5	91.1	3.46 3.71	3.40	3.32	4.3 3.2	4.2	3.1
		/ Cloudy	Bottom	20.0	25.1	34.1	34.1	6.23	6.23	6.23	91.7	91.6	3.68	3.70		3.0	3.1	
		19	Surface	1.0	24.4	33.6 33.6	33.6	6.08 6.07	6.08	6.06	88.1 88.0	88.1	2.32 2.34	2.33		4.0 4.6	4.3	
21/11/2024	10:42:11		Middle	10.8	24.4	33.6 33.7	33.6	6.03 6.04	6.04	6.06	87.5 87.6	87.6	2.91 2.91	2.91	2.95	5.0 4.9	5.0	4.5
		/ Rain	Bottom	20.1	24.4	33.7	33.7	6.08	6.09	6.09	88.2	88.3	3.56	3.61		4.4	4.3	
			Surface	1.0	23.7	33.7 33.5	33.5	6.09 6.45	6.45		88.3 92.4	92.4	3.65 2.34	2.33		4.1 1.4	1.6	
00/11/00001	10.45.00	20				33.5 33.6		6.45 6.44		6.45	92.4 92.3		2.32 2.59		0.50	1.7 1.4		
23/11/2024	12:45:03	/ Cloudy	Middle	10.6	23.8	33.6 33.7	33.6	6.44 6.43	6.44		92.3 92.4	92.3	2.64 2.74	2.62	2.56	1.7 1.3	1.6	1.7
			Bottom	20.5	23.8	33.7	33.7	6.44	6.44	6.44	92.4	92.4	2.74	2.74		2.7	2.0	
		22	Surface	1.0	23.7	33.4 33.4	33.4	6.56 6.56	6.56	6.56	93.9 93.9	93.9	2.65 2.67	2.66		3.7 4.6	4.2	
25/11/2024	13:41:31		Middle	10.4	23.6	33.4 33.5	33.5	6.55 6.55	6.55		93.6 93.6	93.6	2.98 3.00	2.99	2.90	4.4 2.8	3.6	3.8
		/ Cloudy	Bottom	19.9	23.6	33.5 33.5	33.5	6.53 6.53	6.53	6.53	93.3 93.3	93.3	3.04 3.07	3.06		4.7 2.3	3.5	
		19	Surface	1.0	23.1	33.8 33.8	33.8	6.80 6.80	6.80		96.5 96.5	96.5	2.31 2.30	2.31		4.7 4.9	4.8	
27/11/2024	14:48:14	10	Middle	10.6	23.1	33.8	33.8	6.80	6.80	6.80	96.5	96.5	2.35	2.35	2.39	2.9	3.1	3.8
-		/ Fine	Bottom	20.2	23.1	33.8 33.8	33.8	6.80 6.80	6.80	6.80	96.4 96.5	96.5	2.34 2.52	2.52	-	3.3 4.5	3.6	
						33.8 33.9		6.80 7.27		0.00	96.5 101.6		2.52 1.56			2.6 4.8		
		18	Surface	1.0	22.2	33.9	33.9	7.26	7.27	7.21	101.5	101.6	1.56	1.56		3.2	4.0	
29/11/2024	15:35:01		Middle	9.6	22.3	33.8 33.8	33.8	7.15 7.14	7.15		100.1 99.9	100.0	1.81 1.80	1.81	1.74	4.1 4.0	4.1	3.5
		/ Fine	Bottom	18.2	22.3	33.8 33.8	33.8	7.07	7.07	7.07	99.0 98.9	99.0	1.87 1.84	1.86		1.5 3.6	2.6	

Remark: The SS value below 1.0 mg/L is reported as "1.0" mg/L and highlighted in yellow in the table. Water quality monitoring (Mid-Flood Ebb) on 13/11/2024 was cancelled due to the adverse weather condition (THe Tropical Cyclone Signal No.3).

Monitoring Station : TKO-M5



Monitoring		TKO-M5				Salinit	y (ppt)	Dissolv	ed Oxyger	n (ma/L)		d Oxygen	Tı	urbidity (NT	ັ ນາ	Susper	nded Solids	s (ma/L)
Date	Time	Ambient Temp (°C) / Weather Condition	Monitorir (n		Temp (°C)	Value	Average	Value	Average	Depth-	Satura Value	tion (%) Average	Value	Average	Depth-	Value	Average	Depth-
		Condition	Surface	1.0	26.6	34.4	34.4	5.90	5.90	average	89.2	89.1	2.77	2.77	average	3.6	4.0	average
1/11/2024	17:03:05	26	Middle	7.5	26.5	34.4 34.4	34.4	5.89 5.90	5.91	5.90	89.0 89.0	89.1	2.77 2.98	3.00	3.03	4.4 3.0	3.8	3.9
		/ Fine	Bottom	13.9	26.3	34.4 34.5 34.5	34.5	5.91 6.00 6.01	6.01	6.01	89.1 90.4 90.6	90.5	3.02 3.36 3.26	3.31		4.6 4.3 3.7	4.0	
		26	Surface	1.0	26.1	34.5 34.6 34.6	34.6	6.04 6.04	6.04		90.6 90.6 90.6	90.6	3.26 3.45 3.50	3.48		2.7 5.1	3.9	
4/11/2024	08:49:24		Middle	7.6	26.0	34.6 34.6	34.6	6.03 6.03	6.03	6.04	90.3 90.5	90.4	3.52 3.44	3.48	3.60	4.0	3.9	3.6
		/ Cloudy	Bottom	13.6	26.0	34.6 34.6	34.6	6.02 6.02	6.02	6.02	90.2 90.2	90.2	3.85 3.82	3.84		2.6 3.2	2.9	
		24	Surface	1.0	26.0	34.6 34.6	34.6	6.19 6.19	6.19	6.19	92.6 92.7	92.7	2.52	2.54		4.9	4.7	
7/11/2024	11:38:10	/ Cloudy	Middle	8.2	26.0	34.6 34.6 34.6	34.6	6.18 6.18 6.17	6.18		92.5 92.5 92.3	92.5	2.64 2.66 2.85	2.65	2.67	4.6 4.6 4.6	4.6	4.5
			Bottom	15.6	26.0	34.6 34.5	34.6	6.17 6.36	6.17	6.17	92.3 94.6	92.3	2.82	2.84		4.0	4.3	
9/11/2024	14:29:10	25	Surface Middle	1.0 8.7	25.6 25.6	34.5 34.6	34.5 34.6	6.37 6.36	6.37 6.36	6.36	94.7 94.6	94.7 94.6	1.86 1.92	1.86	2.00	4.8	4.6 3.8	4.0
3/11/2024	14.23.10	/ Cloudy	Bottom	16.5	25.6	34.6 34.6	34.6	6.35 6.34	6.34	6.34	94.5 94.4	94.4	1.92 2.30	2.22	2.00	3.2 4.0	3.7	4.0
		24	Surface	1.0	25.5	34.6 34.4 34.4	34.4	6.34 6.27 6.27	6.27		94.4 92.9 92.9	92.9	2.13 2.59 2.60	2.60		3.3 3.0 4.2	3.6	
11/11/2024	14:51:30	24	Middle	8.6	25.5	34.4 34.5 34.5	34.5	6.27 6.20 6.20	6.20	6.24	92.9 92.0 92.0	92.0	3.73 3.79	3.76	3.37	4.2 3.2 4.8	4.0	3.8
		/ Fine	Bottom	16.3	25.5	34.5 34.5	34.5	6.18 6.18	6.18	6.18	91.8 91.8	91.8	3.81 3.71	3.76		3.0 4.8	3.9	
						34.7		6.37	-		94.2		2.38	-		3.5	-	
		24	Surface	1.0	25.2	34.7 34.7 34.7	34.7	6.34 6.30	6.36	6.32	93.8 93.2	94.0	2.41 2.64	2.40		4.6	4.1	
15/11/2024	16:24:37	/ Rain	Middle Bottom	8.4	25.2 25.2	34.8 34.8	34.7 34.8	6.28 6.25	6.29 6.25	6.25	92.9 92.5	93.1 92.4	2.66 2.83	2.65 2.85	2.63	3.4 2.5	4.1 2.6	3.6
			Surface	1.0	25.2	34.8 34.1	34.0	6.24 6.19	6.20	0.25	92.3 91.2	91.2	2.87 3.04	3.04		2.6 3.0	3.4	
18/11/2024	09:10:09	24	Middle	8.7	25.1	34.1 34.1 34.1	34.1	6.20 6.21 6.20	6.21	6.20	91.2 91.3 91.2	91.3	3.03 3.38 3.28	3.33	3.25	3.8 3.3 3.4	3.4	3.2
		/ Cloudy	Bottom	15.6	25.1	34.1 34.1 34.1	34.1	6.20 6.22 6.21	6.22	6.22	91.2 91.5 91.3	91.4	3.28 3.36 3.40	3.38		3.4 3.4 2.5	3.0	
		19	Surface	1.0	24.3	33.5 33.4	33.4	6.04 6.04	6.04	6.05	87.5 87.4	87.5	2.21 2.23	2.22		4.7 3.9	4.3	
21/11/2024	11:07:18		Middle	8.4	24.4	33.7 33.7	33.7	6.05 6.05	6.05	0.05	87.8 87.7	87.8	3.38 3.37	3.38	3.06	3.8 4.4	4.1	4.3
		/ Rain	Bottom	15.4	24.4	33.7 33.7	33.7	6.05 6.06	6.06	6.06	87.8 87.9	87.9	3.58 3.61	3.60		4.4	4.6	
		20	Surface	1.0	23.8	33.6 33.6 33.6	33.6	6.45 6.45 6.46	6.45	6.45	92.5 92.5 92.6	92.5	2.60 2.54 2.69	2.57		2.2 1.0 3.6	1.6	
23/11/2024	13:16:09	/ Cloudy	Middle	8.7	23.8	33.6 33.7	33.6	6.45 6.46	6.46		92.6 92.8	92.6	2.66 2.86	2.68	2.70	1.1 1.6	2.4	1.8
			Bottom Surface	16.1	23.8 23.6	33.7 33.5	33.7 33.5	6.46 6.55	6.46 6.55	6.46	92.8 93.6	92.8 93.6	2.83 2.83	2.85		1.5 3.7	1.6 4.1	
25/11/2024	13:53:30	22	Middle	8.4	23.6	33.5 33.5	33.5	6.55 6.55	6.55	6.55	93.6 93.6	93.6	2.85 3.11	3.12	3.08	4.5 4.8	3.7	4.2
		/ Cloudy	Bottom	15.9	23.6	33.5 33.6	33.6	6.54 6.54	6.54	6.54	93.5 93.5	93.5	3.12 3.26	3.27		2.6 5.1	4.7	
		19	Surface	1.0	23.1	33.6 33.8 33.8	33.8	6.54 6.82 6.82	6.82		93.5 96.8 96.8	96.8	3.28 2.26 2.21	2.24		4.3 3.8 4.9	4.4	
27/11/2024	15:08:10		Middle	8.5	23.1	33.8 33.8	33.8	6.82 6.82	6.82	6.82	96.8 96.8	96.8	2.21 2.38 2.37	2.38	2.34	2.9 3.7	3.3	4.0
		/ Fine	Bottom	15.5	23.1	33.8 33.8	33.8	6.82 6.82	6.82	6.82	96.7 96.7	96.7	2.40 2.42	2.41		4.0 4.6	4.3	
		18	Surface	1.0	22.3	33.8 33.8	33.8	7.44	7.43	7.34	104.1 103.7	103.9	1.55 1.60	1.58		3.4 2.4	2.9	
29/11/2024	15:55:01	/ Eine	Middle	8.3	22.3	33.8 33.8	33.8	7.27	7.26		101.8 101.4	101.6	1.81	1.84	1.77	3.5 2.9	3.2	3.3
		/ Fine	Bottom	15.2	22.3	33.8 33.8	33.8	7.08 7.07	7.08	7.08	99.1 99.0	99.1	1.92 1.90	1.91		3.9 3.9	3.9	

Remark: The SS value below 1.0 mg/L is reported as "1.0" mg/L and highlighted in yellow in the table. Water quality monitoring (Mid-Flood Ebb) on 13/11/2024 was cancelled due to the adverse weather condition (THe Tropical Cyclone Signal No.3).

Mid-Ebb Tide

Monitoring Station : TKO-C1a



Monitoring		Ambient Temp	Monitori	ng Depth	Temp	Salinit	y (ppt)	Dissolv	ed Oxyger	n (mg/L)		d Oxygen tion (%)	Tu	urbidity (NT	TU)	Susper	nded Solids	s (mg/L)
Date	Time	(°C) / Weather Condition	(r		(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
		26	Surface	1.0	26.5	34.4 34.4	34.4	5.90 5.90	5.90		89.1 89.0	89.1	2.81 2.84	2.83	urorugo	3.7 4.1	3.9	urorug
1/11/2024	11:29:06		Middle	10.0	26.5	34.4 34.4	34.4	5.89 5.89	5.89	5.90	88.8 88.9	88.9	2.85	2.85	2.88	4.5	4.4	4.3
		/ Fine	Bottom	18.8	26.4	34.5 34.5	34.5	5.97 5.98	5.98	5.98	89.9 90.1	90.0	2.94 2.97	2.96		4.2	4.6	1
		26	Surface	1.0	26.1	34.6 34.6	34.6	6.03 6.03	6.03		90.4 90.5	90.5	3.49	3.44		3.4 3.6	3.5	
4/11/2024	13:15:06		Middle	10.5	26.0	34.6 34.6	34.6	6.01 6.01	6.01	6.02	90.0 90.1	90.1	3.86 3.87	3.87	3.71	4.5	4.3	4.1
		/ Cloudy	Bottom	21.6	26.1	34.6 34.6	34.6	5.99 5.99	5.99	5.99	89.9 89.9	89.9	3.79 3.85	3.82		5.0 4.1	4.6	
		24	Surface	1.0	26.0	34.6 34.6	34.6	6.20 6.20	6.20		92.8 92.9	92.9	2.54 2.53	2.54		3.4 3.8	3.6	
7/11/2024	5:40:22		Middle	10.7	26.0	34.6 34.6	34.6	6.19 6.19	6.19	6.20	92.6 92.6	92.6	3.10 3.10	3.10	2.94	3.9 4.0	4.0	3.9
		/ Cloudy	Bottom	20.4	25.9	34.6 34.6	34.6	6.17 6.17	6.17	6.17	92.4 92.4	92.4	3.18 3.19	3.19		4.3 4.2	4.3	
		25	Surface	1.0	25.6	34.5 34.5	34.5	6.40 6.42	6.41	0.40	95.2 95.5	95.4	1.86 1.84	1.85		3.3 3.2	3.3	-
9/11/2024	7:36:10		Middle	10.6	25.6	34.6 34.6	34.6	6.42 6.42	6.42	6.42	95.6 95.5	95.5	2.16 2.06	2.11	2.17	3.6 4.3	4.0	3.6
		/ Cloudy	Bottom	20.2	25.6	34.6 34.6	34.6	6.41 6.41	6.41	6.41	95.4 95.4	95.4	2.52 2.59	2.56	Ī	4.0 3.4	3.7	
		24	Surface	1.0	25.5	34.4 34.3	34.4	6.21 6.22	6.22	6.19	92.1 92.3	92.2	2.26 2.25	2.26		2.9 2.8	2.9	
11/11/2024	8:19:53		Middle	10.8	25.6	34.5 34.5	34.5	6.16 6.16	6.16	6.19	91.6 91.5	91.6	2.40 2.36	2.38	2.53	3.0 4.1	3.6	3.3
		/ Fine	Bottom	20.1	25.5	34.5 34.5	34.5	6.19 6.19	6.19	6.19	92.0 91.9	92.0	2.98 2.90	2.94	Ī	2.4 4.5	3.5	
		25	Surface	1.0	25.5	34.4 34.4	34.4	6.32 6.32	6.32	6.31	93.7 93.7	93.7	2.45 2.39	2.42		3.3 4.1	3.7	
13/11/2024	10:00:35		Middle	10.2	25.5	34.5 34.5	34.5	6.30 6.29	6.30	0.31	93.5 93.4	93.5	2.72 2.78	2.75	2.73	3.2 4.0	3.6	4.0
		/ Rain	Bottom	20.6	25.4	34.6 34.6	34.6	6.25 6.25	6.25	6.25	92.7 92.7	92.7	2.99 3.05	3.02		4.7 4.5	4.6	
		24	Surface	1.0	25.2	34.7 34.7	34.7	6.54 6.52	6.53	6.50	96.7 96.4	96.6	2.52 2.54	2.53		3.2 2.6	2.9	
15/11/2024	11:30:55		Middle	10.7	25.2	34.7 34.7	34.7	6.46 6.46	6.46	0.00	95.6 95.6	95.6	2.67 2.68	2.68	2.76	4.0 2.2	3.1	3.5
		/ Rain	Bottom	20.2	25.2	34.7 34.7	34.7	6.41 6.38	6.40	6.40	94.8 94.4	94.6	3.06 3.07	3.07		4.6 4.5	4.6	
		24	Surface	1.0	25.1	34.1 34.1	34.1	6.24 6.23	6.24	6.24	91.7 91.6	91.7	3.26 3.20	3.23	+	4.2 2.2	3.2	
18/11/2024	13:02:01	(0)	Middle	10.6	25.1	34.1 34.1	34.1	6.25 6.25	6.25		92.0 92.0	92.0	3.46 3.34	3.40	3.48	3.9 3.3	3.6	3.3
		/ Cloudy	Bottom	20.5	25.1	34.1 34.1	34.1	6.24 6.24	6.24	6.24	91.8 91.7	91.8	3.77 3.84	3.81		2.3 3.6	3.0	
		19	Surface	1.0	24.3	33.6 33.6 33.7	33.6	6.19 6.17 6.20	6.18	6.19	89.6 89.4 89.8	89.5	2.69 2.56 3.75	2.63	+	3.6 4.8	4.2	
21/11/2024	6:23:09	/ Rain	Middle	10.8	24.4	33.7 33.7 33.7	33.7	6.20 6.20 6.20	6.20		89.8 90.0	89.8	3.75 3.77 3.86	3.76	3.42	3.3 4.7	4.0	4.2
		/ hain	Bottom	20.8	24.4	33.7	33.7	6.20	6.20	6.20	90.0	90.0	3.88	3.87		4.6 4.0	4.3	
		20	Surface	1.0	23.7	33.5 33.5 33.6	33.5	6.47 6.47 6.48	6.47	6.48	92.7 92.7 93.0	92.7	2.36 2.35 2.59	2.36	ł	2.6 2.4	2.5	
23/11/2024	7:36:02	/ Cloudy	Middle	10.5	23.8	33.6 33.6 33.7	33.6	6.48 6.48 6.49	6.48		93.0 92.9 93.2	93.0	2.59 2.50 2.71	2.55	2.54	2.2 2.7 3.5	2.5	2.7
		, cloudy	Bottom	20.4	23.8	33.7 33.5	33.7	6.49 6.68	6.49	6.49	93.1 95.5	93.2	2.70 2.48	2.71		2.9 4.2	3.2	
		22	Surface	1.0	23.6	33.5 33.5	33.5	6.65 6.63	6.67	6.65	95.0 94.8	95.3	2.50	2.49		4.2 3.4 4.7	3.8	
25/11/2024	8:15:35	/ Cloudy	Middle	10.7	23.6	33.5 33.6	33.5	6.62 6.60	6.63		94.6 94.5	94.7	3.04 3.13	3.03	2.89	4.5	4.6	4.0
			Bottom	20.3	23.7	33.6 33.8	33.6	6.58 6.81	6.59	6.59	94.3 96.6	94.4	3.15 2.37	3.14		3.1 3.0	3.7	
07/1/2000		19	Surface	1.0	23.1	33.8 33.8	33.8	6.81 6.82	6.81	6.82	96.6 96.8	96.6	2.33	2.35		3.1 2.3	3.1	
27/11/2024	9:27:07	/ Fine	Middle	10.2	23.1	33.8 33.8	33.8	6.82 6.81	6.82		96.8 96.7	96.8	2.35	2.34	2.36	3.2 4.3	2.8	3.2
			Bottom	19.4	23.1	33.8 34.2	33.8	6.81 7.38	6.81	6.81	96.7 102.7	96.7	2.42	2.41		3.3 3.7	3.8	
20/11/0001	10-47-04	18	Surface	1.0	21.8	34.2 33.8	34.2	7.36 7.18	7.37	7.27	102.5 100.6	102.6	2.05 1.78	2.07	1.00	3.5	3.6	
29/11/2024	10:47:01	/ Fine	Middle	10.7	22.3	33.8 33.8	33.8	7.17 7.10	7.18	7 10	100.4 99.4	100.5	1.78 1.77	1.78	1.88	4.5 4.2	3.4	3.7
			Bottom	20.5	22.3	33.8	33.8	7.10	7.10	7.10	99.4	99.4	1.80	1.79		3.9	4.1	

Remark: The SS value below 1.0 mg/L is reported as "1.0" mg/L and highlighted in yellow in the table.

Mid-Ebb Tide

Monitoring Station : TKO-M4a



	Station :	TKO-M4a				<u> </u>	(Dissolve	d Oxygen	_		<u> </u>	6		
Date	Time	Ambient Temp (°C) / Weather	Monitoring [Depth (m)	Temp (°C)		y (ppt)		ed Oxyger	n (mg/L) Depth-	Saturat	tion (%)		irbidity (NT	U) Depth-		nded Solids	s (mg/L) Depth-
		Condition				Value 34.4	Average	Value 5.91	Average	average	Value 89.3	Average	Value 2.73	Average	average	Value 4.5	Average	average
		26	Surface	1.0	26.5	34.4	34.4	5.91	5.91	5.91	89.2	89.3	2.70	2.72		4.3	4.4	
1/11/2024	11:42:06		Middle	7.6	26.4	34.4 34.4	34.4	5.90 5.91	5.91		89.0 89.1	89.1	2.86 2.89	2.88	2.92	4.4	4.3	4.4
		/ Fine	Bottom	14.2	26.3	34.5 34.5	34.5	6.04 6.05	6.05	6.05	90.9 91.0	91.0	3.13 3.18	3.16		4.7 4.1	4.4	
			Surface	1.0	26.1	34.6	34.6	6.05	6.05		90.7	90.8	3.15	3.13		4.0	3.6	
		26				34.6 34.6		6.05 6.03		6.04	90.8 90.4		3.10 3.75			3.1 2.8		
4/11/2024	13:32:06	/ Cloudy	Middle	10.6	26.1	34.6 34.6	34.6	6.03 6.00	6.03		90.3 89.9	90.4	3.83 3.93	3.79	3.62	4.8 3.7	3.8	3.9
		/ Cloudy	Bottom	20.4	26.0	34.6	34.6	6.00	6.00	6.00	89.9	89.9	3.96	3.95		4.9	4.3	
		24	Surface	1.0	26.0	34.6 34.6	34.6	6.20 6.20	6.20	6.19	92.8 92.8	92.8	2.28 2.27	2.28		4.6 4.3	4.5	
7/11/2024	5:54:06		Middle	10.2	25.9	34.6 34.6	34.6	6.18 6.18	6.18	0.19	92.6 92.5	92.6	3.21 3.22	3.22	3.02	4.4 3.6	4.0	4.0
		/ Cloudy	Bottom	19.5	25.9	34.6	34.6	6.17	6.17	6.17	92.3	92.3	3.58	3.58		4.3	3.7	1
			Surface	1.0	25.6	34.6 34.5	34.5	6.16 6.52	6.52		92.2 96.9	96.9	3.58 1.78	1.77		3.0 4.6	3.6	
		25				34.5 34.5		6.52 6.48		6.50	96.9 96.5		1.76 1.89			2.5 4.7		-
9/11/2024	7:49:08	(0)	Middle	9.4	25.6	34.5	34.5	6.46	6.47		96.1	96.3	1.91	1.90	1.92	4.4	4.6	4.1
		/ Cloudy	Bottom	17.8	25.6	34.6 34.6	34.6	6.38 6.38	6.38	6.38	95.0 95.0	95.0	2.08 2.12	2.10		3.8 4.6	4.2	
		24	Surface	1.0	25.5	34.4 34.4	34.4	6.26 6.26	6.26		92.9 93.0	93.0	2.07 2.08	2.08		4.2 3.7	4.0	
11/11/2024	8:40:28		Middle	9.3	25.5	34.4 34.4	34.4	6.26 6.25	6.26	6.26	93.0 92.8	92.9	2.26 2.24	2.25	2.31	3.9	3.8	3.8
		/ Fine	Bottom	19.2	25.6	34.5	34.5	6.25	6.15	6.15	91.5	91.5	2.57	2.62		3.7 3.5	3.8	
						34.5 34.4		6.15 6.29			91.4 93.4		2.66 2.93			4.0 2.0		
		25	Surface	1.0	25.5	34.4 34.5	34.4	6.30 6.26	6.30	6.28	93.4 92.9	93.4	2.97 2.88	2.95		2.7 4.7	2.4	-
13/11/2024	10:20:23		Middle	9.8	25.5	34.5	34.5	6.26	6.26		92.9	92.9	2.86	2.87	3.04	4.4	4.6	2.9
		/ Rain	Bottom	18.3	25.4	34.6 34.6	34.6	6.24 6.24	6.24	6.24	92.7 92.7	92.7	3.31 3.27	3.29		1.6 1.9	1.8	
		24	Surface	1.0	25.3	34.6 34.6	34.6	6.49 6.49	6.49		96.1 96.1	96.1	2.48 2.49	2.49		2.9 3.2	3.1	
15/11/2024	11:47:00		Middle	10.1	25.2	34.6	34.6	6.43	6.43	6.46	95.1	95.0	2.60	2.62	2.71	3.2	4.2	3.8
		/ Rain	Bottom	19.2	25.2	34.6 34.7	34.7	6.42 6.37	6.37	6.37	94.9 94.2	94.2	2.63 3.02	3.03		5.2 3.5	4.0	
						34.7 34.1		6.36 6.20	-	0.37	94.1 91.2		3.03 2.77			4.5 3.5		
		24	Surface	1.0	25.1	34.1	34.1	6.20	6.20	6.20	91.2	91.2	2.65	2.71		3.5	3.5	
18/11/2024	13:28:12		Middle	9.6	25.1	34.1 34.1	34.1	6.19 6.19	6.19		91.0 91.0	91.0	3.45 3.47	3.46	3.26	4.2 4.0	4.1	3.7
		/ Cloudy	Bottom	17.1	25.1	34.1 34.1	34.1	6.18 6.19	6.19	6.19	91.0 91.0	91.0	3.61 3.58	3.60		4.1 2.9	3.5	
		19	Surface	1.0	24.3	33.6 33.6	33.6	6.14 6.14	6.14		88.9 88.9	88.9	2.63 2.79	2.71		4.7 4.1	4.4	
21/11/2024	6:38:16	13	Middle	9.4	24.4	33.7	33.7	6.14	6.14	6.14	88.9	89.0	3.43	3.51	3.32	4.2	4.3	4.2
		/ Rain				33.7 33.7		6.14 6.14		6.14	89.0 89.1		3.58 3.75			4.3 3.5		
			Bottom	17.7	24.4	33.7 33.5	33.7	6.14 6.47	6.14	6.14	89.1 92.6	89.1	3.72 2.34	3.74		4.6 1.8	4.1	
		20	Surface	1.0	23.7	33.5	33.5	6.47	6.47	6.47	92.6	92.6	2.34	2.34		2.4	2.1	
23/11/2024	7:50:03		Middle	9.3	23.7	33.5 33.5	33.5	6.46 6.46	6.46		92.6 92.6	92.6	2.42 2.42	2.42	2.50	2.1 2.5	2.3	2.6
		/ Cloudy	Bottom	17.7	23.8	33.6 33.7	33.6	6.45 6.45	6.45	6.45	92.5 92.5	92.5	2.70 2.79	2.75		3.2 3.5	3.4	
			Surface	1.0	23.7	33.5	33.5	6.67	6.66		95.5	95.4	2.54	2.55		4.2	4.5	
25/11/2024	8:34:29	22	Middle	10.0	23.6	33.5 33.5	33.5	6.65 6.62	6.62	6.64	95.2 94.6	94.6	2.55 3.17	3.18	2.99	4.8 3.0	2.8	3.4
LOFTIFLOLY	0.04.20	/ Cloudy				33.6 33.6		6.62 6.59		0.50	94.6 94.2		3.18 3.22		2.00	2.5 2.4		
			Bottom	19.0	23.6	33.6	33.6	6.58	6.59	6.59	94.1	94.2	3.25	3.24		3.6	3.0	
		19	Surface	1.0	23.1	33.8 33.8	33.8	6.80 6.80	6.80	6.80	96.6 96.5	96.6	2.24 2.22	2.23		2.1 3.8	3.0	
27/11/2024	9:47:07		Middle	9.3	23.1	33.8 33.8	33.8	6.79 6.79	6.79	5.00	96.4 96.4	96.4	2.33 2.33	2.33	2.33	3.2 4.2	3.7	3.1
		/ Fine	Bottom	17.5	23.1	33.8 33.8	33.8	6.80 6.80	6.80	6.80	96.5 96.5	96.5	2.44 2.41	2.43		2.9	2.7	
			Surface	1.0	22.3	33.8	33.8	7.30	7.29		102.1	102.0	1.62	1.63		3.9	3.9	
20/11/2024	11.00-00	18				33.8 33.8		7.28 7.19		7.24	101.9 100.7		1.63 1.76		1 74	3.9 3.2		
29/11/2024	11:02:03	/ Fine	Middle	9.8	22.3	33.8 33.8	33.8	7.18 7.10	7.19		100.5 99.4	100.6	1.75 1.84	1.76	1.74	3.0 4.5	3.1	3.9
		71110	Bottom	18.1	22.3	33.8	33.8	7.09	7.10	7.10	99.4 99.3	99.4	1.83	1.84		4.5	4.6	

Mid-Ebb Tide

Monitoring Station : TKO-M5



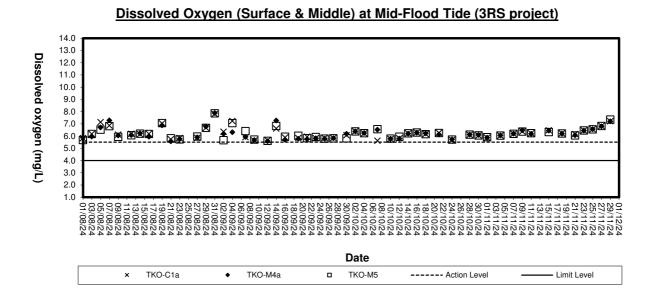
	Station :					1					Discolvo	Ovugon			1	1		
Date	Time	Ambient Temp (°C) / Weather	Monitoring I	Depth (m)	Temp	Salinit	ty (ppt)	Dissolv	ved Oxyger		Saturat	d Oxygen ion (%)	Τι	urbidity (NT		Susper	ided Solids	
		Condition	-		(°C)	Value	Average	Value	Average	Depth- average	Value	Average	Value	Average	Depth- average	Value	Average	Depth- average
		26	Surface	1.0	26.5	34.4 34.4	34.4	5.91 5.90	5.91		89.1 89.1	89.1	2.90 2.90	2.90		3.8 4.6	4.2	
1/11/2024	12:04:05		Middle	7.5	26.5	34.4 34.4	34.4	5.90 5.91	5.91	5.91	89.0	89.1	2.92 2.95	2.94	2.95	4.0	4.2	4.3
		/ Fine	Bottom	13.8	26.3	34.4	34.5	6.02	6.03	6.03	89.1 90.6	90.8	3.00	3.01		4.3 4.8	4.4	1
			Bottom	10.0	20.5	34.5 34.6	34.3	6.04 6.02	0.00	0.00	90.9 90.2	50.0	3.02 3.68	3.01		4.0 4.1	7.7	
		26	Surface	1.0	26.0	34.6	34.6	6.02	6.02	6.02	90.2	90.2	3.67	3.68		2.4	3.3	
4/11/2024	13:46:12		Middle	8.5	26.0	34.6 34.6	34.6	6.01 6.01	6.01		90.0 90.1	90.1	3.63 3.63	3.63	3.69	3.0 2.1	2.6	2.9
		/ Cloudy	Bottom	15.2	26.0	34.6	34.6	6.00	6.00	6.00	89.9	89.9	3.78	3.77		2.7	2.9	
			Surface	1.0	26.0	34.6 34.6	34.6	6.00 6.18	6.19		89.9 92.6	92.6	3.76 2.63	2.64		3.0 4.3	4.2	
		24				34.6 34.6		6.19 6.18		6.18	92.6 92.5		2.64 2.92			4.1 4.8		
7/11/2024	6:14:12	(0)	Middle	7.4	26.0	34.6	34.6	6.18	6.18		92.5	92.5	2.93	2.93	2.97	4.6	4.7	4.0
		/ Cloudy	Bottom	13.7	25.9	34.6 34.6	34.6	6.17 6.17	6.17	6.17	92.3 92.3	92.3	3.35 3.33	3.34		2.8 3.6	3.2	
		25	Surface	1.0	25.7	34.5 34.5	34.5	6.37 6.37	6.37		94.7 94.8	94.8	1.85 1.83	1.84		4.1 3.4	3.8	
9/11/2024	8:15:21	20	Middle	7.9	25.7	34.6	34.6	6.36	6.36	6.37	94.9	94.9	1.84	1.83	1.93	4.2	3.8	3.8
0,11,2021	0.10.21	/ Cloudy				34.6 34.6		6.36 6.30			94.8 93.9		1.82 2.09			3.4 3.4		
		,	Bottom	14.6	25.7	34.6	34.6	6.30	6.30	6.30	93.9	93.9	2.12	2.11		4.5	4.0	
		24	Surface	1.0	25.5	34.4 34.4	34.4	6.23 6.24	6.24	6.18	92.5 92.6	92.6	2.40 2.41	2.41		3.4 3.2	3.3	
11/11/2024	8:54:31		Middle	7.7	25.6	34.5 34.5	34.5	6.12 6.13	6.13	0.10	91.0 91.1	91.1	2.35 2.38	2.37	2.35	4.0 3.7	3.9	3.7
		/ Fine	Bottom	15.2	25.6	34.5	34.5	6.11	6.11	6.11	90.9	90.9	2.28	2.29		3.9	3.9	1
						34.5 34.5		6.11 6.29		-	90.9 93.3		2.30 2.90			3.9 3.6		
		25	Surface	1.0	25.5	34.5	34.5	6.29	6.29	6.29	93.3	93.3	2.92	2.91		2.8	3.2	
13/11/2024	10:35:39		Middle	7.2	25.5	34.5 34.5	34.5	6.28 6.28	6.28		93.2 93.1	93.2	3.06 3.09	3.08	3.05	3.8 3.4	3.6	3.5
		/ Rain	Bottom	13.7	25.5	34.5 34.5	34.5	6.27 6.26	6.27	6.27	92.9 92.9	92.9	3.15 3.16	3.16		4.3 3.2	3.8	
			Surface	1.0	25.3	34.7	34.7	6.46	6.44		95.7	95.3	2.56	2.57		4.0	3.3	
15/11/2024	12:03:42	24	Middle	7.7	25.2	34.7 34.7	34.7	6.42 6.39	6.38	6.41	94.9 94.5	94.3	2.58 2.73	2.74	2.81	2.6 2.3	2.5	3.4
13/11/2024	12.05.42	/ Rain	Middle	1.1		34.7 34.7		6.36 6.33	0.30		94.1 93.6	54.5	2.75 3.11	2.74	2.01	2.6 4.3	2.0	- 3.4
		, nam	Bottom	14.4	25.2	34.7	34.7	6.32	6.33	6.33	93.5	93.6	3.14	3.13		4.6	4.5	
		24	Surface	1.0	25.1	34.1 34.1	34.1	6.17 6.17	6.17		90.8 90.8	90.8	2.82 2.84	2.83		3.7 3.9	3.8	
18/11/2024	13:47:10		Middle	7.4	25.1	34.1 34.1	34.1	6.19 6.19	6.19	6.18	91.1 91.1	91.1	3.33 3.24	3.29	3.04	3.4 3.7	3.6	3.8
		/ Cloudy	Bottom	14.0	25.1	34.1	34.1	6.19	6.15	6.15	91.1	90.5	3.24 2.96	2.99		3.7	4.1	1
						34.1 33.6		6.16 6.16		0.10	90.6 89.2		3.02 2.59			4.3 4.4		<u> </u>
		19	Surface	1.0	24.3	33.6	33.6	6.16	6.16	6.16	89.1	89.2	2.46	2.53		3.4	3.9	
21/11/2024	6:51:14		Middle	7.3	24.4	33.7 33.7	33.7	6.16 6.16	6.16		89.3 89.3	89.3	3.55 3.53	3.54	3.31	3.7 3.5	3.6	4.0
		/ Rain	Bottom	13.5	24.4	33.7 33.7	33.7	6.15 6.15	6.15	6.15	89.1 89.2	89.2	3.84 3.88	3.86		5.0 4.2	4.6	
			Surface	1.0	23.7	33.5	33.5	6.46	6.46		92.5	92.5	2.40	2.40		2.3	2.6	<u> </u>
00/14/0004	0.00.00	20	NC 1 II.	7.5		33.5 33.6		6.46 6.47	0.47	6.47	92.5 92.8		2.39 2.60	0.57	0.50	2.8 3.3		
23/11/2024	8:08:08	/ Cloudy	Middle	7.5	23.8	33.6 33.7	33.6	6.47 6.47	6.47		92.8 93.0	92.8	2.54 2.72	2.57	2.56	2.7 3.9	3.0	3.0
		/ Cloudy	Bottom	14.0	23.8	33.7	33.7	6.47	6.47	6.47	92.9	93.0	2.72	2.72		2.9	3.4	
		22	Surface	1.0	23.7	33.6 33.6	33.6	6.56 6.56	6.56		93.9 94.0	94.0	2.44 2.46	2.45		4.9 4.6	4.8	
25/11/2024	8:52:25		Middle	7.6	23.6	33.6	33.6	6.54	6.54	6.55	93.5	93.5	3.06	3.07	2.89	3.2	4.3	3.7
		/ Cloudy	Bottom	14.2	23.6	33.6 33.6	33.6	6.53 6.50	6.50	6.50	93.4 93.0	93.0	3.08 3.15	3.16		5.3 2.0	2.1	1
			Bottom	14.2		33.7 33.8		6.50 6.81		0.50	93.0 96.7		3.16 2.31			2.1 4.0		
		19	Surface	1.0	23.1	33.8	33.8	6.81	6.81	6.82	96.7	96.7	2.34	2.33		2.2	3.1	
27/11/2024	10:06:10		Middle	7.6	23.1	33.8 33.8	33.8	6.82 6.82	6.82		96.8 96.8	96.8	2.40 2.37	2.39	2.37	2.4 4.8	3.6	3.4
		/ Fine	Bottom	14.3	23.1	33.8 33.8	33.8	6.82 6.82	6.82	6.82	96.8 96.8	96.8	2.36 2.41	2.39		3.6 3.3	3.5	
			Surface	1.0	22.3	33.8	33.8	7.29	7.29		102.1	102.0	1.74	1.78		3.8	3.1	<u> </u>
00/14/00001	11 00 00	18				33.8 33.8		7.28 7.21		7.24	101.9 100.9		1.82 1.82			2.4 4.7		
29/11/2024	11:20:02	/ Fine	Middle	8.3	22.3	33.8	33.8	7.19	7.20		100.6	100.8	1.82	1.82	1.83	4.4	4.6	3.8
		/ Fille	Bottom	15.5	22.3	33.8 33.8	33.8	7.09 7.09	7.09	7.09	99.3 99.2	99.3	1.89 1.87	1.88		4.5 2.9	3.7	

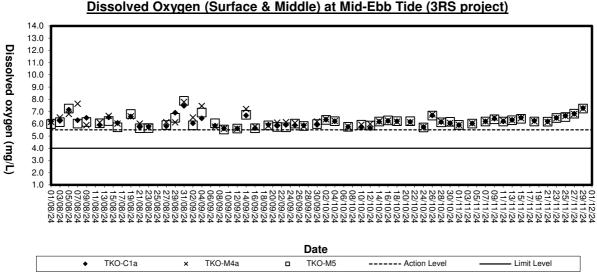


Appendix D5

Graphical Plots of Impact Marine Water Quality Monitoring Data (3RS Project)

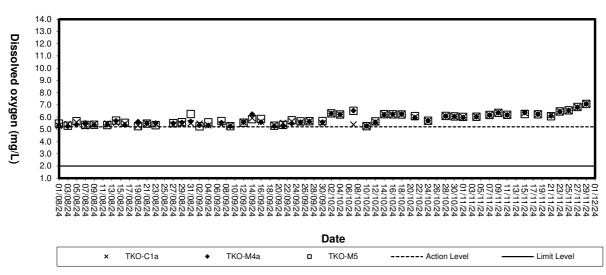




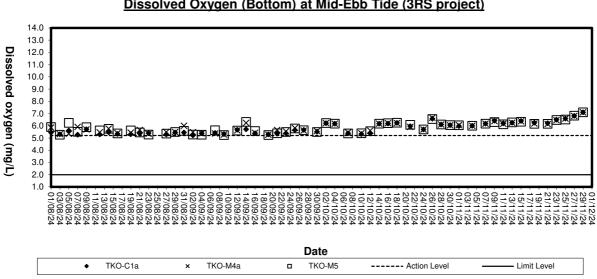


Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide (3RS project)



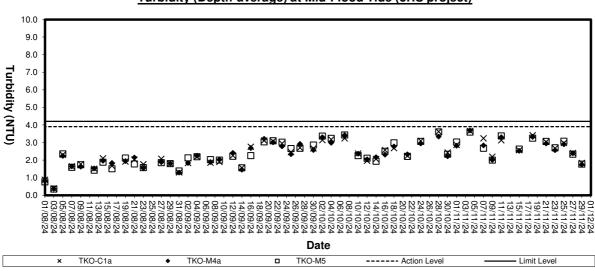


Dissolved Oxygen (Bottom) at Mid-Flood Tide (3RS project)



Dissolved Oxygen (Bottom) at Mid-Ebb Tide (3RS project)



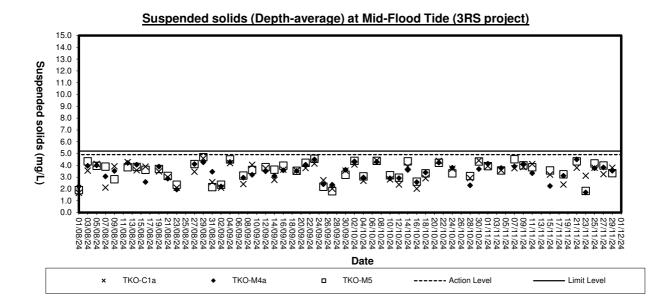


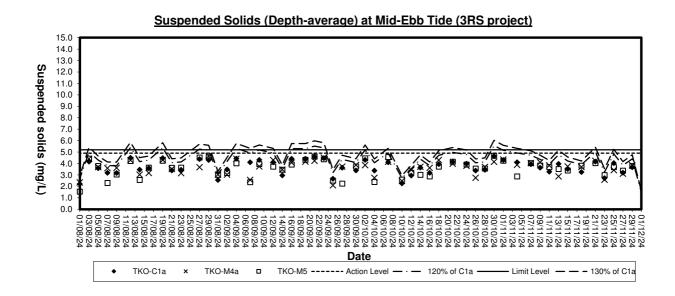
10.0 9.0 8.0 7.0 **Turbidity (NTU)** 6.0 5.0 4.0 ~: 3.0 Ø ₿ П Č 2.0 R ð 8 1.0 0.0 08/09/ 06/09/ 02/09/ 31/08/ 27/08/ 25/ 23/ 21/ 03 /90 25/ 09/ <u>ω</u>5 08/09/ -হ 29 ω 26 3/08/24 1/08/24 88 88 $\begin{array}{c} (1) \\$ 80 8 8 8 8 8 8 10/24 10/24 09/24 09/24 Date TKO-C1a TKO-M4a TKO-M5 ----- Action Level ----- 120% of C1a -- Limit Level — — - 130% of C1a ٠ x

Turbidity(Depth-average) at Mid-Ebb Tide (3RS project)

Turbidity (Depth-average) at Mid-Flood Tide (3RS project)









Appendix E

Weather Condition

Daily			noiogicai	Observa	10115,1	overnbei	2024 -	i seung K	wan O
	Mean				Mean	Mean	Total	Prevailing	Mean
	Pressure	Ai	ir Temperatu	ıre	Dew	Relative	Rainfall	Wind	Wind
	(hPa)				Point	Humidity	(mm)	Direction	Speed
Day		Absolute	Mean	Absolute	(deg. C)	(%)		(degrees)	(km/h)
		Daily	(deg.C)	Daily					
		Max		Min					
		(deg. C)		(deg. C)					
1	1009.7	30.6	26.8	24	17.2	56	-	360	28.4
2	1016.3	27.6	25.1	22.9	17.8	64	-	360	28.5
3	1017.1	29.2	26	24.6	20.7	73	-	70	27.9
4	1016.9	29	26.2	24.8	21.4	75	Trace	80	21.5
5	1017.8	29.2	26	24.1	19.2	67	Trace	80	23.5
6	1018.9	28	25	23.3	17.6	64	Trace	80	24.1
7	1019.4	27	23.9	22.3	13.8	54	Trace	80	22.4
8	1016.6	27.3	24.1	20.9	12.4	48	-	360	21.1
9	1014.5	27.9	25.2	23.4	18.2	66	1.9	70	41.1
10	1014.8	26.4	24.9	23.4	21.1	80	6.2	60	37.5
11	1014.4	26.3	24.9	24	20.6	77	-	80	26
12	1012.3	29.4	25.9	23.3	21.1	75	-	80	13.3
13	1010.1	26.2	25	23.2	21.7	82	14.8	360	30.5
14	1009.6	25.6	24.8	24.2	22.7	88	6.3	70	56.4
15	1010	25.1	24.2	23.5	23.2	94	36.6	70	17.6
16	1011.7	27.9	25.5	23.8	23.2	88	33.3	90	6.2
17	1014.4	26.2	24.3	22.9	22.2	88	6.1	80	18.1
18	1016.8	25.5	24.2	23.2	19.1	73	Trace	70	28.5
19	1018.6	23.2	20.1	18.4	17	83	7.3	360	33.4
20	1018.4	18.6	18.1	17.5	17.2	95	73.8	360	31
21	1018.2	21.1	19.2	17.9	16.7	85	5.6	360	26
22	1018.9	22.6	20.2	18.8	15.4	74	Trace	360	24.5
23	1020	22.5	20.4	18.4	15	71	Trace	10	26.9
24	1019.5	23	21.4	19.8	16.5	74	1	50	30.2
25	1018.4	23.5	22.3	21.1	18.2	78	Trace	60	27.9
26	1019	23.4	20.8	18.7	13.1	63	1.2	360	32.6
27	1020.8	21.5	19.2	17	6.7	45	-	360	28.2
28	1022	21.5	19.2	17	3.7	36	-	360	32.1
29	1020.9	21.2	18.8	16.6	2.2	34	-	360	24.3
30	1017.7	22	19	16.5	9.8	55	-	80	14.2

Daily Extract of Meteorological Observations , November 2024 - Tseung Kwan O

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



Appendix F

Event-Action Plans

	Contractor			 Submit proposals for remediat actions to IC(E) within 3 working days of notification Implement the agreed proposals Amend proposal if appropriate 	 Take Infinedate 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.
ITY EXCEEDANCE	ER		1. Notify Contractor	 Confirm receipt of notification of failure in writing Notify the Contractor Ensure remedial measures property 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			 Check monitoring data submitted by the ET Check contractor's working method 	 Check monitoring data submitted by the ET Leader Check the Contractor's working method Check the Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise the ER on the effectiveness of the proposed remedial measures Supervise implementation of remedial measures 	 Check monitoring data submitted by the ET Leader Check Contractor's working method Check Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise the ER on the effectiveness of the proposed remedial measures Supervise implementation of remedial measures
Ē		EI Leader	 Identify source, investigate the causes of exceedance and propose remedial measures Inform ER, IC(E) and Contractor Repeat measurement to confirm finding Increase monitoring frequency to daily 	 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 for remedial actions Discuss with IC(E) and Contractor on remedial actions If exceedance continues, arrange meeting with IC(E) and ER. If exceedance stops, cease additional monitoring 	 Identify source, investigate the causes of exceedance and propose remedial measures Inform ER, Contractor and EPD Repeat measurement to confirm finding Increase monitoring frequency to daily Assess the effectiveness of Contractor's remedial actions and keep IC(E), 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

	- 1	Ţ	
		Contractor	 Take immediate action to avoid further exceedances Submit proposals for remedial actions to IC(E) within 3 working days of notification Implement the agreed proposals Resubmit proposals if problem still not under control Stop the relevant activity of works as determined by the ER until the exceedance is abated
TY EXCEEDANCE		ER	 Confirm receipt of notification of failure in writing Notify Contractor In consultation with the IC(E), agree with the Contractor on the remedial measures to be implemented Ensure remedial measures to the exceedances continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated
ALI			·····
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 Leader	 Identify source, investigate the causes of exceedance and propose remedial measures Notify IC(E), ER, EPD and Contractor 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 possible meting with IC(E) and ER to discuss the remedial actions to be taken Assess effectiveness of Contractor's remediai actions and keep IC(E), EPD and ER informed of the results If exceedance stops, cease additional monitoring
		<u> </u>	
EVENT			2. Exceedance for two or more consecutive samples

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

					-			
<u>. </u>				ACIION	z			
		ET Leader		Contractor		ER		lec
Action level	<u> </u>	Identify source(s) of impact;	<i></i>	Notify the ER and IEC in writing	÷	Notify EPD and other relevant		Check monitoring data
heinn evreeded	: ~	Reneat in-situ measurement to		within 24 hours of identification of		governmental agencies in writing		submitted by ET
by one	i	confirm findings:		exceedance		within 24 hours of the	ы.	Confirm ET assessment if
samnling dav	٣.	Notify Contractor in writing within	2	Rectify unacceptable practice;		Identification of the exceedance		exceedance is due / not due
for Buildings	;	24 hours of identification of the	റ്	Check all plant and equipment;	2.	Discuss with IEC, ET and		to the works
		exceedance	4	Submit investigation report to IEC		Contractor on the proposed	က်	Discuss with ET, ER and
	4	Check monitoring data, all plant,		and ER within 3 working days of		mitigation measures;		Contractor on the mitigation
		equipment and Contractor's		the identification of an	ю.	Require contractor to propose		measures
		working methods:		exceedance		remedial measures for the	4	Review contractor's
	ي م	Carv out investigation	ហ៍	Consider changes of working		analysed problem if related to the		mitigation measures
	jœ	Renort the results of investigation		method if exceedance is due to		construction works		whenever necessary to
	5	to the Contractor within 3 working		the construction works	4.	Ensure remedial measures are		ensure their effectiveness
		dave of identification of	ç	Discuss with ET. IEC and ER and		properly implemented		and advise the ER
			;	pronose mitigation measures to	ŝ	Assess the effectiveness of the		accordingly
		excertance and advise		IEC and ED if exceedance is due	;	mitination measure	Ś	
		contractor if exceedance is due to			-		5	
*		contractor's construction works		to the construction works within 4				
	~	Discuss mitigation measures with		working days of identification of				measures
		Contractor if exceedance is due		an exceedance				
		to the construction works within 4		Implement the agreed mitigation				
		working days		measures within reasonable time				
	ώ	Repeat measurement on next day		scale				
		of exceedance if exceedance is						
		due to the construction works			_			

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Action level ET Leader Action ET Leader ET Leader Contractor Noity ETD and other relevant 1. Noity ETD and other relevant 1. Check monitoring data periodes in writing 24 hours of the summerial agencies in writing 24 hours of the same sampling days 2. Repeat In-situ measurement 2. Confin Tassessment Processourie 3. Noity/Contractor in writing periodes in writing 24 hours of the same same sampling days 3. Confin Tassessment 3. Confin Tassessment Consecutive Within 24 hours of sampling days 3. Consecutive writing processedance 3. Confin Tassessment 3. Confin Tassessment Consecutive Secury out investigation to the Contractor in writing addise contractor in the proposed measures for the miligation measures in writing addise contractor in and dote to the construction works 3. Discuss with ET, ET and Contractor is addise contractor in writing addise contractor in and dote to the works and dote contractor in writing addise contractor in and dote to the miligation measures in the construction works 4. Ensure remedial measures for the miligation measures in the constructor works 1. Construction in a exceedance 0. Constador the constructor works 0. Stasses the effect	Event	<u> </u>		Ľ	EVENT AND ACTION PLAN FOR WATER QUALITY	E E	IR WATER QUALITY		
ET Leader Contractor ER Ieveil 1. Identify source(s) of impact; Notify ED and other relevant 1. ded by 2. Repart in writing 1. Notify ED and other relevant 1. ded by 2. Repart in writing 2. Notify Contractor in writing athon of exceedance writing writin A hours of the identification of the relevant 2. active 3. Notify Contractor in writing 2. Rectify unacceptable practice; 3. Writing writin A hours of the identification of the identification of the exceedance 3. active 3. Notify Contractor in writing 2. Check monitoring data, all 4. Check monitoring data, all 3. Check all plant and writing writin A hours of the identification of exceedance 3. Require contractor to proposed 4. 5. Carry out investigation to the Contractor if methods; 5. Submit the results of the investigation to the Contractor of an investigation to the contractor if an indigation measures identification of exceedance 4. Check and ER 4. 5. Assess the effectiveneedance 5. 6. Investigation to the Contractor if an acceedance identification of exceed					ACTIO	N			
Tievel1.Identify source(s) of impact; than one1.Notify EPD and other relevant acvertanted in measurement itentification of exceedance 		Ŀ	ET Leader		Contractor		ER		IEC
2. Repeat m-surrement within 24 nours of the than one cutive 3. worting within 24 nours of the than one cutive 3. confirm findings 3. conting within 24 hours of the than one identification of the cutive identification of the cutive identification of the than one identification of the contractor on the proposed methods; 3. Check and part and thours of the identification of the than one identification of the contractor on the proposed methods; 3. Check monitoring data, all the results of the investigation to the contractor on the proposed methods; 3. Contractor on the proposed methods; 3. Check monitoring data, all the results of the investigation to the contractor on the proposed methods; 3. Check monitoring data, all measures identification of an investigation to the contractor on the proposed methods; 3. Check and pays of the investigation to the construction works and advise contractor if investigation to the construction of an investigation to the construction works are indentification of an works are indentification of an works are implemented; 4. constactor if the results of the investores of the inves	Action level	·		<u>-</u>	Notify IEC and ER in writing		Notify EPD and other relevant	~`	Check monitoring data
a 3. Notify Contractor in writing within 24 hours of the anothin 24 hours of the writing within 24 hours of the writing within 24 hours of the writing within 24 hours of the identification of the writin 24 hours of the identification of the writin 24 hours of the identification of the exceedance actions identification of the exceedance actions identification of the exceedance actions investigation the results of the investigation the contractor if and advise contractor if the mitigation measures for the exceedance is due to writin 3 working days of the investigation to IEC and ER writin 3 working days of the investigation to exceedance is due to writin 3 working days of the mitigation measures for the analysed problem if related to the exceedance is due to works and advise contractor if measures to identification of anot actor actor actor actor writing and advise contractor if and advise contractor if measures to identification of exceedance are integration measures and advise contractor if and propose mitigation measures are integration measures to identification of an acceedance is due to writing and advise contractor if and propose mitigation measures are intigation measures are individued and advise contractor if and propose are integrated and advise contractor if and propose are intigation measures are intigation measures are indigation measures are individued and advise contractor if and propose are individued and advise contractor if and advise contractor if and propose are individued at a acceledance are individued at a acceledance are are indigatiton measures are indigatiton measures are individued	being	~	_		within 24 hours of		governmental agencies in		submitted by EI
3. Notify Contractor in writing within 24 hours of writing atto. 3. Notify Contractor in writing atto	exceeded by		to confirm findings		identification of exceedance		writing within 24 hours of the	તં	Confirm ET assessment
yswithin 24 hours of adentification3. Check all plant and equipment;3. Contractor on the proposed mitigation measures;3. Contractor on the proposed measures for the prant dentification of an and advise contractor if and advise contractor if and advise contractor within 3 working days of and advise contractor if and advise contractor if and advise contractor if and advise contractor within 4 working days of within 4 working days of and bropose mitigation measures the mitigation measures of day of exceedance and propose mitigation an exceedance with EC and CER and bropose mitigation an exceedance b. Ensure mitigation measures3. Check all plant measures within 4 working days of the mitigation measures b. Assess the effectiveness of the mitigation measure b. Contractor within b. Contractor within 4 working days of the mitigation measures3. Check and ER the mitigation measures b. Contractor within 4 working days of the mitigation measures4. Ensure remedial measures the mitigation measures b. Contractor within 4 working days of the mit	more than one	က် —		2 N	Rectify unacceptable practice;		identification of the		if exceedance is due /
ys identification 4. Check monitoring data, all pand, equipment; and contractor's working methods; contractor's working methods; contractor's working methods; contractor's working methods; contractor's working methods; contractor's working methods; contractor within 3 working days of the investigation to the Contractor within 3 working days of the investigation to the Contractor within 3 working days of the and advise contractor if and advise contractor if works 2. Discuss with IEC, ET and contractors on the proposed investigation measures of investigation to the Contractor within 3 working days of and advise contractor if and advise contractor if an exceedance are implemented; 2. Discuss with IEC, ET and and advise contractor if and advise contractor if and advise contractor if and advise contractor if and advise contractor if an exceedance are implemented; 3. 2. Discuss with iEC, ET and and advise contractor if and advise contract	consecutive		within 24 hours of	က်	Check all plant and		exceedance		not due to the works
4. Check monitoring data, all plant, equipment and contractor's working methods; Contractor's working methods;4. Consider changes of working methods;Contractor on the proposed mitigation measures;5. Carry out investigation (a contractor's working days of investigation to the contractor investigation to the contractor investigation to the contractor investigation of exceedance and advise contractor if and advise contractor if exceedance is such in 3 working days of identification of exceedance and advise contractor if exceedance is such in 3 working days of identification of exceedance investigation4. Constactor on the proposed miligation measures of the investigation and propose mitigation and advise contractor if and advise contractor if and advise contractor if exceedance be writhin 3 working days of the miligation measures of the miligation measures4. Ensure remedial measures and propose the miligation measures the miligation measures4.7. Discuss mitigation an exceedance with IEC and Contractor within an exceedance are implemented7. Implement the agreed monitoring frequency to daily; to Repeat measurement on next8.8.8. Ensure miligation an exceedance are implemented9.9.9.9. Prepare to increase the monitoring frequency to daily; day of exceedance.9.9.9. Prepare to increase the and y of exceedance.9.9.9. Repeat measurement to measures.9.9.9. Repeat measurement to measures.9.9. Repeat measurement ton	sampling days		identification		equipment;	~i	Discuss with IEC, ET and	က်	Discuss with ET, ER and
plant, equipment and Contractor's working methods;methods;methods;methods;Carry out investigation Carry out investigation investigation to the contractor investigation to the contractor investigation to the contractor investigation to the contractor within 3 working days of and advise contractor if entification of exceedance and advise contractor if entification of and advise contractor3. Require contractor to propose investigation to the contractor identification of an and advise contractor if entification of and advise contractor4.Report the results of investigation and advise contractor identification of exceedance5.4.Report the results of inhin 3 working days of and advise contractor exceedance6.Discuss with T4.Report intigation and advise contractor within works7.Method identification of an method and for and advise contractor within the miligation measures for intigation measures and advise contractor within the miligation measures the miligation measures the miligation measures for and ER within 4 working days of the miligation measures the miligation	- -	4	-	4.	Consider changes of working		Contractor on the proposed		Contractor on the
Contractor's working methods;5. Submit the results of the investigation to the Card ER within 3 working days of investigation to the Contractor 			plant, equipment and		methods;		mitigation measures;		mitigation measures.
Carry out investigation Report the results of investigation to the Contractor within 3 working days of investigation to the Contractor within 3 working days of identification of exceedance and advise contractor if exceedance is due to contractor's construction worksinvestigation to IEC and ER analysed problem if related to the construction works f. Ensure remedial measures of f. Biscuss with ET, IEC and ER and advise contractor if exceedanceinvestigation to IEC and ER analysed problem if related to the construction works f. Ensure remedial measures worksCarry out investigation and advise contractor worksG. Discuss with ET, IEC and ER and propose miligation measures to IEC and ER worksA. Ensure remedial measures f. Ensure remedial measures f. Ensure remedial measures f. Ensure remedial measures f. Assess the effectiveness of f. Implement the agreed miligation measure f. Prepare to increase the monitoring frequency to daily.S. Assess the effectiveness of f. Ensure miligation measures f. Ensure miligation measures f. Ensure miligation measures are implemented;S. Assess the effectiveness of f. Assess the effectiveness of f. Assess the effectiveness of f. Ensure miligation measures are implemented;T. Repeat measurement on nextA. Exceedance monitoring frequency to daily, day of exceedance.A. Ensure Ensure f. Ensure and ER f. Ensure			Contractor's working methods;	പ	Submit the results of the	က်	Require contractor to propose	4	Review contractor's
Report the results of investigation to the Contractor within 3 working days of investigation to the Contractor within 3 working days of and advise contractor if and advise contractor if exceedance and advise contractor if exceedance is due to contractor's construction workswithin 3 working days of identification of an exceedance and advise contractor if measures to IEC and ER within 16 contractor within and propose mitigation measures to IEC and ER within 16 contractor within and propose mitigation morkswithin 3 working days of the construction works are properly implemented and propose mitigation fector and ER within 16 contractor within an exceedance mitigation measures the mitigation measures the mitigation measures the mitigation measures the mitigation measures the mitigation measures the mitigation measure the mitigation measure		ы. С	-		investigation to IEC and ER		remedial measures for the		mitigation measures
investigation to the Contractoridentification of an within 3 working days of identification of exceedanceidentification of an exceedancethe construction workswithin 3 working days of 		ö			within 3 working days of the		analysed problem if related to		whenever necessary to
within 3 working days of identification of exceedance and advise contractor if exceedance is due to contractor's construction worksexceedance and propose mitigation and propose mitigation b. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 4 working days of the mitigation measures the mitigation measures of the mitigation measures the mitigation measure the mitigation measure4. Ensure remedial measures are properly implemented 5. Assess the effectiveness of the mitigation measures the mitigation measure the mitigation measure5.Thus an exceedance are implemented; Prepare to increase the monitoring frequency to daily;1. Ensure remedial measures and propose mitigation the mitigation measures within 4 working days of the mitigation measures the mitigatio			investigation to the Contractor		identification of an		the construction works		ensure their
identification of exceedance and advise contractor if exceedance is due to contractor's construction works contractor's construction works with IEC and ER and propose mitigation exceedance is due to contractor's construction works with IEC and ER within 4 working days of identification of an exceedance Ensure mitigation measures within a exceedance Ensure mitigation measures within are properly implemented 5. Assess the effectiveness of the mitigation measures with IEC and Contractor within 4 working of identification of an exceedance Ensure mitigation measures within reasonable time scale Prepare to increase the monitoring frequency to daily; . Repeat measurement on next			within 3 working days of		exceedance	4	Ensure remedial measures		effectiveness and advise
and advise contractor if exceedance is due to contractor's construction worksand propose mitigation measures to IEC and ER within 4 working days of tidentification of an exceedance with IEC and Contractor within 4 working of identification of an exceedance mitigation measures within reasonable time scale monitoring frequency to daily;and propose mitigation measures to IEC and ER within 4 working days of tidentification of an exceedance mitigation measures within reasonable time scale monitoring frequency to daily;and propose mitigation measures to IEC and ER within 4 working days of tidentification of an exceedance mitigation measures within reasonable time scale monitoring frequency to daily;and propose mitigation tidentification of an exceedance mitigation measures within reasonable time scale monitoring frequency to daily;A working of exceedance.5. Assess the effectiveness of tidentification of an exceedance mitigation measures are implemented;5. Assess the effectiveness of tidentification of an tidentification of an exceedance mitigation measures tidentification of an tidentification of an <td></td> <td></td> <td>identification of exceedance</td> <td>Ö</td> <td>Discuss with ET, IEC and ER</td> <td></td> <td>are properly implemented</td> <td></td> <td>the ER accordingly</td>			identification of exceedance	Ö	Discuss with ET, IEC and ER		are properly implemented		the ER accordingly
exceedance is due to contractor's construction worksmeasures to IEC and ER within 4 working days of 			and advise contractor if		and propose mitigation	Ω.	Assess the effectiveness of	ഗ്	Assess the effectiveness
contractor's construction workswithin 4 working days of identification of an biscuss mitigation measures with IEC and Contractor within 4 working of identification of an exceedance Ensure mitigation measures e identification of an exceedance Ensure mitigation measures within reasonable time scale monitoring frequency to daily;within 4 working days of identification of an exceedance mitigation measures within reasonable time scale monitoring frequency to daily;. Repeat measurement on next day of exceedance.within 4 working days of identification of an exceedance mitigation measures within reasonable time scale			exceedance is due to		measures to IEC and ER		the mitigation measure		of the implemented
works Discuss mitigation measures with IEC and Contractor within 4 working of identification of an exceedance Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; . Repeat measurement on next day of exceedance.			contractor's construction		within 4 working days of				mitigation measures.
Discuss mitigation measures with IEC and Contractor within 7. 4 working of identification of an exceedance Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; . Repeat measurement on next day of exceedance.			works		identification of an				
with IEC and Contractor within 7. 4 working of identification of an exceedance Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; . Repeat measurement on next day of exceedance.		۲.	_		exceedance				
4 working of identification of an exceedance Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; . Repeat measurement on next day of exceedance.			with IEC and Contractor within	~	Implement the agreed				
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EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE
EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE

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		IEC	. Check monitoring data			It exceedance is due /						mitigation measures	submitted by Contractor	and advise the ER		5. Assess the effectiveness	of the implemented	mitigation measures													
Ц С	}	-	~~	- C	¥ 						4				_				<u>.</u>												
ER QUALITY EXCEEDAN		ER	Notify EPD and other relevant	governmental agencies in	Writing Within 24 hours of	identification 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.															
ATE	z						2			က် —		4		ഹ																	
EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE	ACTION	Contractor	1. Notify IEC and ER in writing;	within 24 hours of the	identification of the	•	Rectify unacceptable practice;	Check all plant and	equipment;	Consider changes of working	_	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	and propose mitigation	measures to IEC and ER	within 4 working days of the	identification of an		7. Implement the agreed	mitigation measures within	reasonable time scale						
LN NT		_								-	-																				
EVE		ET Leader	1. Repeat in-situ measurement	-	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;	5. Carry out investigation	-	investigation to the Contractor	within 3 working days of	identification of exceedance	and advise contractor if	exceedance is due to	contractor's construction	works	7. Discuss mitigation measures	with IEC, ER and Contractor	within 4 working of	identification of an	exceedance	8. Ensure mitigation measures	are implemented;	Increase the monitoring	frequency to daily until no	exceedance of Limit Level.
			F			ر ی				4																					
Event			Limit level	being	exceeded by	one sampling	dav .	`		. .					·		-														

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Event		EVEN	ITA	ND ACTION PLAN FOR W	ATI	EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE	Щ	
				ACTION	ž			
		ET Leader		Contractor		ER		IEC
imit I aval	-	Dongaf in-citu maasurament	-	Notify FR and IFC in writing	ļ	Notify EPD and other relevant		Check monitoring data
Lunu Level boing	-	to confirm finding:	-	within 24 hours of the	:	dovernmental agencies in		submitted by ET
uaniy evreeded hv	0	Identify source(s) of imnact:		identification of the		writing within 24 hours of	сі	Confirm ET assessment
exceeded by more than one	i e	Notify Contractor in writing		exceedance and		identification of exceedance		if exceedance is due /
concect tive	<u>;</u>	within 24 hours of	2.	Rectify unacceptable practice:	ы М	Discuss with IEC, ET and		not due to the works
sampling days		identification of the	က် 	Check all plant and		Contractor on the proposed		Discuss with ER, ET and
		exceedance		equipment;		mitigation measures;		Contractor on the
	V	Check monitoring data, all	4	Consider changes of working	ભં	Request Contractor to critically		mitigation measures.
	÷	nant equipment and		methods:		review the working methods;	4.	Review proposals on
		Contractor's working methods	œ	Submit the results of the	0	Ensure remedial measures		mitigation measures
	Ľ		;	investigation to IEC and ER		are properly implemented		submitted by Contractor
	i c			within 3 working days of the	4	Assess the effectiveness of		and advise the ER
	5			identification of an		the implemented mitigation		accordingly.
		within 3 working days of		exceedance		measures;	പ്	Assess the effectiveness
		identification of exceedance	ີ່ດ	Discuss with ET. IEC and ER	ശ്	Consider and instruct, if		of the implemented
		and advise contractor if		and propose mitigation		necessary, the Contractor to		mitigation measures.
		exceedance is due to		measures to IEC and ER		slow down or to stop all or part		
		contractor's construction		within 4 working days;		of the marine work until no		
		works	<u>.</u>	Implement the agreed		exceedance of Limit Level.		
	~	Discuss mitigation measures		mitigation measures within				
		with IEC, ER and Contractor;		reasonable time scale				
•	ω̈́		7.	As directed by the Engineer,				
	•	are implemented;		to slow down or to stop all or				
	റ്			part of the marine work or				
		frequency to daily until no		construction actives.				
		exceedance of Limit Level for						
		two consecutive days.						

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Appendix G

Works Programme

ID	0	Task Name	Start	t	Finish	21 20	А	Nov '24	10 סד	1	Dec '24	22	20	c
1		Contract duration of Contract CV/2023/10	Sun 4	4/8/24	Sat 31/7/27	21 28	1/24	11	18 25	2	9 16	23	30	6
2	<u> </u>	Contract date, Date of Letter of Acceptance			Thu 11/7/24									
3		Starting Date of the Works	Sun 4	4/8/24	Sun 4/8/24									
4		Starting Date of Section 1 of the Works	Sun 4	4/8/24	Sun 4/8/24									
5		Starting Date of Section 2 of the Works	Sun 4	4/8/24	Sun 4/8/24									
6	2	Starting Date of Section 3 of the Works	Sun 4	4/8/24	Sun 4/8/24									
		Date for Completion of the Works	Sat 3	31/7/27	Sat 31/7/27									
8		Completion Date of Section 1 of the Works	Sat 3	31/7/27	Sat 31/7/27									
9	<u> 1</u>	Completion Date of Section 2 of the Works	Sat 3	31/7/27	Sat 31/7/27									
		Completion Date of Section 3 of the Works	Sat 3	31/7/27	Sat 31/7/27									
		Planned completion dates	Sat 3	31/7/27	Sat 31/7/27									
	3	Planned completion date of Section 1	Sat 3	31/7/27	Sat 31/7/27									
	<u>R</u>	Planned completion date of Section 2	Sat 3	31/7/27	Sat 31/7/27									
		Planned completion date of Section 3	Sat 3	31/7/27	Sat 31/7/27									
15	<u>、</u>	Access Date of the Site	Sun 4	4/8/24	Sun 4/8/24									
16	<u>~</u> @_	Portion A2, A3a, A3b, A3c, A4a1, A4a2, A4b1, A5b, A5c, A7a, A7b, A7c and A10 (within 60 da starting date or later date notified by the Project with 2 days advance notice)	ays after	4/8/24	Sun 4/8/24									
17	√ ₽	Portion B1, B3, B6a, B6b ,B7 and C (within 60 c starting date or later date notified by the Project with 2 days advance notice)		4/8/24	Sun 4/8/24									
18	<ਯੋ	Portion A1, A9, A9a and B6c (7 day's advance r starting date)	notice after Sun 4	4/8/24	Sun 4/8/24									
19		Hand back of the Site	Sat 3	31/7/27	Sat 31/7/27									
	. C.	Portion A2, A3a, A3b, A3c, A4a1, A4a2, A4b1, A5b, A5c, A7a, A7b, A7c and A10 of the site of completion date of the section 1 of the works (date notified by the Project Manager with 30 day notice)	n the or at an earlier	31/7/27	Sat 31/7/27									
21	. 2	Portion A1, A9 and A9a of the site if the Contrac accessed to them ,on the completion date of the the works (or at an earlier date as notified by the Manager with 30 days' advance notice)	e section 1 of	31/7/27	Sat 31/7/27									
22	1 2	Portion B1, B3, B6a, B6b, B7 and C of the site completion date of the section 2 of the works (c date as notified by the Project Manager with 30 advance notice)	or at an earlier	31/7/27	Sat 31/7/27									
23	1 2	Portion B6c of the site if the Contractor has acc them ,on the completion date of the section 2 of (or at an earlier date as notified by the Project M 30 days' advance notice)	f the works	31/7/27	Sat 31/7/27									
	3	Portions C of the Site on the completion date of of the works (or at an earlier date as notified by Manager with 30 days' advance notice)	the Project		Sat 31/7/27									
25		Section 1 of the Works - Tseung Kwan O Are Bank	ea 137 Fill Sun 4	4/8/24	Sat 31/7/27									
	~	Taking over the existing facilities at the Tseu Area 137 Fill Bank within Portion A of the Sit	te		Sun 4/8/24									
27		Operation of the Tseung Kwan O Area 137 within Portion A of the Site	Fill Bank Sun 4	4/8/24	Sat 31/7/27									
28	₽	Operation and maintenance of the surveillan within Portion A of the Site	nce system Sun 4	4/8/24	Sat 31/7/27									
29	•	Operation and maintenance of the existing ti the Tseung Kwan O Area 137 Fill Bank withi the Site	ipping halls at Sun 4 in Portion A of	4/8/24	Sat 31/7/27									
30		Provision, operation and maintenance of the Plant at the Tseung Kwan O Area 137 Fill Ba Portion A of the Site	Crushing Sun 4 ank within	4/8/24	Sat 31/7/27									
						External Tasks			Duration-o	nly		External Task	s	
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ID	0	Task Name	Start	Finish	21 28	4	Nov '24 11	18 25 2	Dec '24 9 16	23 3
31	N	Operation and maintenance of the dewatering plant at th Tseung Kwan O Area 137 Fill Bank within portion A of th Site Facility to the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site.	ne Sun 4/8/24 ne	Sat 31/7/27		11/24			9 10	
32		Design, construction, operation and maintenance of 3 nos. new tipping halls with access ramp, new barge handling area, and associated seawalls within Portion A the Site as and when instructed by the Project Manager	Wed 1/7/26	Sat 31/7/27						
33		Submission of design proposals to Project Manager acceptance	for Wed 1/7/26	Wed 28/10/26						
34		Construction new tipping halls with access ramp, new barge handling area, and associated seawalls within Portion A of the Site		Fri 25/6/27						
35		Operation and maintenance the new berthing facilitie	s Sat 26/6/27	Sat 31/7/27						
36		Demolition & reconstruction/relocation of existing facilitie within Portion A of the Site above as and when instructe by the Project Manager	es Tue 1/7/25 d	Sat 27/12/25						
37		Project Manager's Principal Site Office and Seconda Site Office, and Temporary Accommodation for the Contractor	ry Tue 1/7/25	Sun 28/9/25						
38	 Image: A set of the set of the	Preparing and submitting a proposal for project manager for acceptance	Tue 1/7/25	Mon 14/7/25						
39		Construct a new Project Manager's Secondary Si Office	te Tue 15/7/25	Sun 14/9/25						
40		Relocate furniture, office equipment and compute facilities previously installed at the existing Projec Manager's Site Office to the new office	r Mon 15/9/25 t	Sun 28/9/25						
41		Dismantle and re-assemble the existing Project Manager's Principal Site Office to a new location	Tue 15/7/25	Sun 21/9/25						
42		Demolish the existing Secondary Site Office.	Mon 22/9/25	Sun 28/9/25						
43		Construction of Temporary Accommodation for th	e Tue 15/7/25	Sun 28/9/25						
44		Contractor New Combined Reception and Exit Offices	Tue 1/7/25	Tue 28/10/25						
		Preparing and submitting a proposal to project	Tue 1/7/25	Mon 14/7/25						
46		manager for acceptance Construction of the new Combined Reception and	Tue 15/7/25	Sat 18/10/25						
47		Exit Offices and new weighbridges Relocate the existing CWDCMIS to the new CRE office	O Sun 19/10/25	Tue 28/10/25						
48		Construction Concrete Paved Roads to the new Combined Reception and Exit	Tue 1/7/25	Tue 28/10/25						
49		Preparing and submitting a proposal to project manager for acceptance	Tue 1/7/25	Mon 14/7/25						
50		Construction of the concrete pave roads	Tue 15/7/25	Tue 28/10/25						
51		New Integrated Public Fill Reception Platform	Tue 1/7/25	Tue 28/10/25						
52		Preparing and submitting a proposal to project manager for acceptance	Tue 1/7/25	Mon 14/7/25						
53		Construction of the New Integrated Public Fill Reception Platform	Tue 15/7/25	Tue 28/10/25						
54		Bituminous Materials paved Roads to the Integrated Public Fill Reception Platform	Tue 1/7/25	Tue 28/10/25						
55		Preparing and submitting a proposal to project manager for acceptance	Tue 1/7/25	Mon 14/7/25						
56		Construction of the Bituminous Materials paved Roads to the Integrated Public Fill Reception	Tue 15/7/25	Tue 28/10/25						
57		Relocation of Dewatering Plant and construction of reinforced concrete slurry receiving tank	Tue 1/7/25	Sat 27/12/25						
58		Preparing and submitting a proposal to project manager for acceptance	Tue 1/7/25	Mon 14/7/25						
59		Relocation of the 3 number of existing Dewatering Plant phase by phase	Tue 15/7/25	Sat 13/12/25						
60		Construction of reinforced concrete slurry receivir	g Tue 15/7/25	Sat 13/12/25						
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		Task			External Tasks			Duration-only		
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Manual Task

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Project Summary

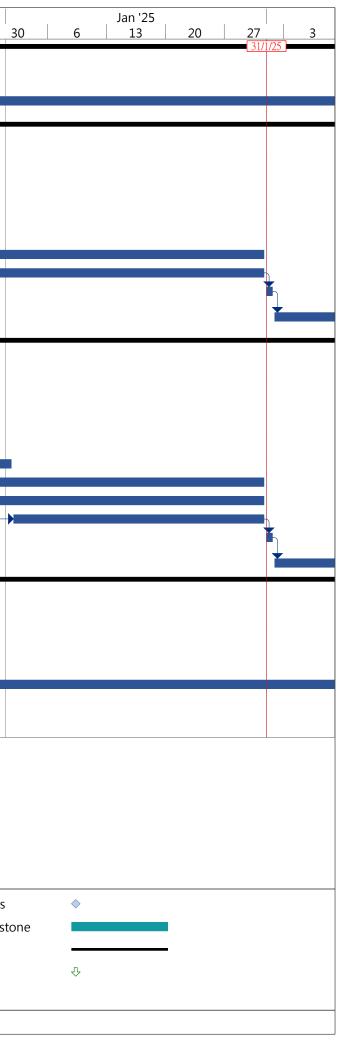
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ID	A	Task Name	Start	Finish	21 20	Nov '24		Dec '24		Jan '25	
61	U	Demolish the existing structures at the Dewater Plant	ing Sun 14/12/25	Sat 27/12/25	21 28 1/11/24	4 11 1	8 25 2	9 16	23 30	6 13 20	27 3 <u>31/1/25</u>
62		Construction ,Relocation and demolition of Wash H	House Tue 1/7/25	Tue 28/10/25							
63	_	Preparing and submitting a proposal to project manager for acceptance	Tue 1/7/25	Mon 14/7/25							
64		Construction of a new wash house	Tue 15/7/25	Tue 21/10/25							
65		Demolish the existing Wash House A1	Tue 21/10/25	Mon 27/10/25							
66		Relocate the existing Wash House A2 and Was House A3 to new location	sh Tue 15/7/25	Tue 28/10/25							
67		Wheel Washing Bays	Tue 1/7/25	Tue 28/10/25							
68		Preparing and submitting a proposal to project manager for acceptance	Tue 1/7/25	Mon 14/7/25							
69		Construction of 2 nos of Wheel Washing Bays	Tue 15/7/25	Tue 21/10/25							
70		Demolish the existing wash bays	Wed 22/10/25	Tue 28/10/25							
71		Construction of new Recorder Houses	Tue 1/7/25	Tue 28/10/25							
		Preparing and submitting a proposal to project manager for acceptance	Tue 1/7/25	Mon 14/7/25							
		Construction of two new Recorder Houses	Tue 15/7/25	Tue 21/10/25							
74		Demolition of two existing recorder houses A1 a A4	and Wed 22/10/25	Tue 28/10/25							
75		Collection and delivery of Public Fill by barges from th Chai Wan and Mui Wo Barging Points to the TKO Are 137 Fill Bank within Portion A of the Site	e Sun 4/8/24 ea	Sat 31/7/27							
76		Handing over the facilities at the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site to the Client.	a Sat 31/7/27	Sat 31/7/27							
77		Planned Completion Date (Section 1)	Sat 31/7/27	Sat 31/7/27							
78		Section 2 of the Works - Tuen Mun Area 38 Fill Bank	Sun 4/8/24	Sat 31/7/27							
79	<u><</u>	Taking over the existing facilities at the Tuen Mun Are Fill Bank within Portion B of the Site		Sun 4/8/24							
80	1	Operation of the Tuen Mun Area 38 Fill Bank within Portion B of the Site	Sun 4/8/24	Sat 31/7/27							
81	<u> 1</u>	Operation and maintenance of the surveillance system within Portion B of the Site	n Sun 4/8/24	Sat 31/7/27							
82	-	Operation and maintenance of the existing tipping hall the Tuen Mun Area 38 Fill Bank within Portion B of the	ls at Sun 4/8/24	Sat 31/7/27							
83	11	Operation and Maintenance of the Crushing Plant at the Tuen Mun Area 38 Fill Bank within Portion B of the Site	he Sun 4/8/24	Sat 31/7/27							
84	<u>19</u>	Operation and maintenance of glass cullet storage compartment at the Tuen Mun Area 38 Fill Bank within	Sun 4/8/24	Sat 31/7/27							
85	<u> 1</u>	Portion B of the Site Collection of fill materials delivered by Others vide ma transportation through the berthing facility within the si at Tsang Tsui and disposal of the fill materials collecte areas within the Site at Tsang Tsui as agreed by the	ite	Sat 31/7/27							
86		Project Manager. Handing over the facilities at the Tuen Mun Area 38 F	Fill Sat 31/7/27	Sat 31/7/27							
		Bank within Portion B of the Site and at Tsang Tsui wi Portion C of the Site to the Client.									
		Planned Completion Date (Section 2)	Sat 31/7/27	Sat 31/7/27							
88		Section 3 of the Works - Designated Reclamation Site the Mainland	es in Sun 4/8/24	Sat 31/7/27							
89		Collection and delivery of 34 million tonnes of Public F by vessels from the Tseung Kwan O Area 137 Fill Bar and the Tuen Mun Area 38 Fill Bank to the Designated Reclamation Sites in the Mainland.	nk	Sat 31/7/27							
90		Deliver of public fill to mainland in year 2024	Sun 4/8/24	Tue 31/12/24							
90	~	Installing and arranging Front End Mobile Unit	Thu 11/7/24	Sat 3/8/24							
92	~	(FEMU) onto the proposed vessels Submitting application documents to EPD for application of dumping permits	Thu 1/8/24	Thu 1/8/24							
	1										
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	0	Task Name	Start	Finish	21 28	4	Nov '24 11	18 25	2	Dec '24 9 16	23	3
121		Operation and maintenance of the existing navigation channel and turning basins in association with the existing berthing facility at Zone E of the Designated Reclamation Sites in the Mainland.	Sun 4/8/24	Sat 31/7/27	1/1	1/24						
122		Operation and maintenance of the existing navigation channel and turning basins	Sun 4/8/24	Sat 31/7/27								-
123		Design, construction, operation and maintenance of the new navigation channel and turning basins in association with the new berthing facility at Zone B of the Designated Reclamation Sites in the Mainland.	Sun 4/8/24	Sat 31/7/27								
124	~	Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer for Zone B	Sun 4/8/24	Sun 4/8/24								
125	~	Design submission of new navigation channel and turning basins and obtaining all necessary design approvals and consents	Mon 5/8/24	Thu 3/10/24								
126			Wed 4/9/24	Fri 31/1/25								
127		Construction of the new turning basins	Tue 3/12/24	Fri 31/1/25								
128		new navigation channel and turning basins	Sat 1/2/25	Sat 1/2/25								
129		channel and turning basins	Sun 2/2/25	Sat 31/7/27								
130		Design, construction, operation and maintenance of new berthing facility at Zone B of the Designated Reclamation Sites in the Mainland.	Sun 4/8/24	Sat 31/7/27								
131	v	Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer for Zone B	Sun 4/8/24	Sun 4/8/24								
132	 Image: A second s	Design submission of new berthing facilities and obtaining all necessary design approvals and consents	Mon 5/8/24	Thu 3/10/24								
133		Precasting cassion units and coping units	Wed 4/9/24	Mon 2/12/24								
134		Construction of rubber mound foundation	Fri 4/10/24	Wed 1/1/25								
135		Installation of cassion units and coping units	Sun 3/11/24	Fri 31/1/25								
136		Backfilling and in-situ concreting	Tue 3/12/24	Fri 31/1/25								
137		Installation of rubber fenders and bollards	Thu 2/1/25	Fri 31/1/25								
138		berthing facilities	Sat 1/2/25	Sat 1/2/25								
139			Sun 2/2/25	Sat 31/7/27								
140		Design and construction of seawalls (approximate 4,400m) in association with new berthing facility at Zone B of the Designated Reclamation Sites in the Mainland.	Sun 4/8/24	Sat 31/7/27								
141	~	Obtaining the permits from Ministry of Ecology and environment of the People's Republic of China through the Employer for Zone B	Sun 4/8/24	Sun 4/8/24								
142	 Image: A second s	Design submission of seawalls and obtaining all necessary design approvals and consents	Mon 5/8/24	Tue 3/9/24								
143		Construction of seawalls (approx. 4400m)	Wed 4/9/24	Fri 30/7/27								
			Sat 31/7/27	Sat 31/7/27								
144		seawalls										

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	Project Summary	\bigtriangledown	Manual Task	\diamond	Finish-only	— — —	
	Summary		Inactive Summary		Start-only		Deadline
ev_01	WhiteStorie	•	mactive milestone		Wallaal Sallinary	•	riogress





Appendix H

Weekly ET's Site Inspection Record

CEDD Contract No.: CV/2023/10



Inspection Date		6-11-2024
Time	:	ter 17:00
Weather	:/	Sunny) Fine / Cloudy / Overcast / Drizzle / Rain / Storm / Hazy
Wind		Calm / Light / Breeze / Strong
Temperature		24
Humidity	;	High / Moderate (Low)

Inspected by	CEDD	Contractor / Sub-Contactor	ET
Signature:	A		1
Name:	LWong	W.L. Kevole	Chris
Title	Arow	5.0	ET





Implementation Remark **Environmental Checklist** Stages* Yes No N/A Fugitive Dust Emission . Dust control / mitigation measures shall be provided to prevent dust nuisance. 1 . Water sprays shall be provided and used to dampen materials. $\sqrt{}$ V Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions. . Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side V ÷. 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 The designated site main haul road shall be paved or regular watering. . V Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site. . V Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank. . V . All plant and equipment should be well maintained e.g. without black smoke emission. $\sqrt{}$ Open burning should be prohibited. 8 The temporary slope surfaces, shall be covered with impermeable sheet or sprayed with water or protected by other method approved by V . CEDD. V . When fill material is transfer by belt conveyor systems, the conveyors shall be enclosed on top and 2 sides. $\sqrt{}$ The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt. . The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the material landing $\sqrt{}$. point is maintained at no more than 1m. 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). 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 . V The constructions work should be scheduled to minimize noise nuisance. $\sqrt{}$ Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works. V . Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials. V Air compressors and hand held breakers should have noise labels. $\sqrt{}$ 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. $\sqrt{}$. V Noisy equipment and mobile plant shall always be site away from NSRs.



Environmental Checklist		emen Stages		Remark
			N/A	
Water Quality				
Drainage system should be adequate and well maintained to prevent flooding and overflow, especially after rain storms.	\checkmark			
The permanent drainage channels should have sediment basin, traps and baffles and maintain properly.	\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. 	V			
 Manholes should be covered and sealed. 	\checkmark			
 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 stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge. 	\checkmark			
 The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD. 	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. 	V			
 Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. 	V			
 A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains. 	1			
 The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains. 	\checkmark			
 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. 				
 Oil interceptor shall be provided at the car parking areas and workshop. 	√			
Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water.	V			
 The barges shall be in right size such that adequate clearance in maintained between the vessels and the seabed at all states of the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller wash. 	√			
 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			
Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.	$\neg $			
 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			
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			
Existing silt curtain at the outward side of the basin near the Barging Handling Area throughout the period shall be repair, maintain and service when there is public fill intake by barges to the Fill Bank in accordance with PS Clause 1.68. The total length of the silt curtains shall not be less than 160m, and a gap of about 80m shall be left open for access of barges. The silt curtain shall be properly maintained such that it can also serve the function of refuse containment boom to confine floating refuse.	V			
A waste collection vessel shall be deployed to remove floating debris.				



		lementatio Stages*		Remark
Environmental Checklist			s" N/A	
Landscape and Visual				
 The design of the fill bank and platform heights adopted should allow the fill bank to fit into the general topography of the surrounding land. Straight edged slopes should be avoided. 	V			
 The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD. 	\checkmark			
 Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green / brown) once completed. 	V			
 The barging point and the C&DMSF at the fill bank shall not be in operation from 07:00 pm to 08:00 am daily to avoid potential visual impact from glare. 	V			
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. 	V			
 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. 	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. 	√			
 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. 	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.	√			
 After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. 	7			
 Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation. 	√			
 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.	V			
The designated chemical waste storage area should only be used for storing chemical wastes.	V			
 The set-up of chemical waste storage area should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition. 	V			
Be enclosed on at least 3 sides and securely closed.	V			



Environmental Checklist	Implementation Stages*			Remark
		No	N/A	
 Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest. 	V			
Have adequate ventilation.	V			
 Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary). 	V			
 Be arranged so that incompatible materials are adequately separated. 	V			
 Warning panels should be displayed at the waste storage area. 	V			
 Waste storage area should be cleaned and maintained regularly. 	V			
 Chemical waste should be transported by a registered chemical waste collector to a facility licensed to receive chemical waste. 	V			
 All generators, fuel and oil storage should be within bundle areas. 	V			
 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.	V			
Good Site Practices				
 Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site. 	V			
 Training of site personnel in proper waste management and chemical handling procedures should be provided. 	V			
 Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment. 	V			
 Proper storage and site practices to minimise the potential for damage or contamination of construction materials. 	V			
The Environmental Permit should be displaced conspicuously on site.	V			
Construction noise permits should be posted at site entrance or available for site inspection.			V	
 Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. 	V			
Chemical storage area provided with lock and located on sealed areas.	V			
 All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank). 	V			
 Any unused chemicals or those with remaining functional capacity should be recycled. 	V			
Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors.	1			
To encourage collection of aluminium cans by individual collectors, 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)	Follow up Date
			~		

Remark

1

	Name	Title	Signature)	Date
Checked by	June Lau	ET Representative		w	06 November 2024
			J		

CEDD Contract No.: CV/2023/10



Handling of Surplus Public Fill (2024-2027) - Tseung Kwan O Area 137 Fill Bank

Inspection Date : 13/11/24

Time : 14=30

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

Wind : Calm (Light) / Breeze / Strong

8

3

Temperature

Humidity

High / Moderate / Low

27°C

Inspected byCEDDContractor / Sub-ContactorETSignature:JAJAName:K.C. MungMul. KuuskeTitleJOWE.DE.DE.T



Environmental Checklist		ement Stages	tation s*	Remark
		No		
Fugitive Dust Emission				
Dust control / mitigation measures shall be provided to prevent dust nuisance.	\checkmark			
Water sprays shall be provided and used to dampen materials.	\checkmark			
Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions.	\checkmark		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			
The designated site main haul road shall be paved or regular watering.	\checkmark			
Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.	V			
Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.	V			
All plant and equipment should be well maintained e.g. without black smoke emission.	V			
Open burning should be prohibited.	V			
The temporary slope surfaces, shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.	V			
When fill material is transfer by belt conveyor systems, the conveyors shall be enclosed on top and 2 sides.	\checkmark			
The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt.				
The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the material landing ' point is maintained at no more than 1m.	√			
 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.	√			
 The constructions work 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. 	\checkmark			
 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.				
 Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum. 	V			
Noisy equipment and mobile plant shall always be site away from NSRs.	V			



Environmental Checklist		Implementation Stages*			Remark
			No		
Water Quality					
 Drainage system should be adequate and well maintained to prevent flooding and over 	flow, especially after rain storms.	V			
 The permanent drainage channels should have sediment basin, traps and baffles and r 	naintain properly.	V			
 Temporary intercepting drains should be used at the stockpiling area to divert polluted and sand bay barriers shall be used to assist the diversion of polluted stormwater to the 	stormwater to the intercepting channels. Earth bunds intercepting channels.	1			
 Manholes should be covered and sealed. 		V			
 Unnecessary water retained in receptacles and standing water should be avoided to pr 	event mosquito breeding.	V			
 The material shall be properly covered to prevent washed away especially before rains 	torm	V			
 The stormwater intercepting system shall be effective to collect of runoff and remove st 	spended solids before discharge.				
 The temporary slope surfaces shall be covered with impermeable sheet or sprayed w CEDD. 	ith water or protected by other method approved by	V			
 Final slope surfaces, especially those facing to the north of the site shall be treated to planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface states 	y compaction, followed by hydroseeding, vegetation bilizer approved by CEDD.	V			
 Existing and newly constructed Catchpits, sand and silt removal facilities and intercep silt and grit shall be removed weekly and on a need basis especially at the onset of a are functioning properly at all times. 	nd after each rainstorm to ensure that these facilities	V			
 A wheel washing bay shall be provided at the site exit and wash-water shall have discharged into storm drains. 		V			
 The section of construction road between wheel washing bay and the public road st hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering pul 	olic road drains.	1			
 Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shal provided by a licensed contractor, who will be responsible for disposal and maintenanc 	be provided. The chemical toilets (if use) shall be e of these facilities.	\checkmark			
 Oil interceptor shall be provided at the car parking areas and workshop. 		\checkmark			
 Tipping halls enclosed with top and 3-side to prevent spillage of material into marine was 	ater.	\checkmark		í	· · · · · · · · · · · · · · · · · · ·
 The barges shall be in right size such that adequate clearance in maintained between ensure the undue turbidity is not generated by turbulence from vessel movement or pro- 	peller wash.	V			
 All vessels used for transportation of fill material shall have tight fitting seals to their be transport. 		V			
Adequate environmental control measures shall be provided to prevent / avoid dropping	÷	V			
 Barges shall not be filled to a level which may cause the overflow of material during properly collected and treated before disposal. 	-	V			
 The work activities shall not cause any visible foam, oil, grease, scum, litter or other of vicinity of the barging facilities. 	jectionable matters to be present on the water in the	V			
Existing silt curtain at the outward side of the basin near the Barging Handling Area service when there is public fill intake by barges to the Fill Bank in accordance with PS not be less than 160m, and a gap of about 80m shall be left open for access of barge that it can also serve the function of refuse containment boom to confine floating refuse	Clause 1.68. The total length of the silt curtains shall as. The silt curtain shall be properly maintained such	V			
 A waste collection vessel shall be deployed to remove floating debris. 		V			



Environmental Checklist		Implementation Stages*		Remark
			N/A	1
Landscape and Visual				
The design of the fill bank and platform heights adopted should allow the fill bank to fit into the general topography of the surrounding land. Straight edged slopes should be avoided.	1			
The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD.	1			
 Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green / brown) once completed. 	√			
The barging point and the C&DMSF at the fill bank shall not be in operation from 07:00 pm to 08:00 am daily to avoid potential visual impact from glare.	√			
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. 	√			
 Mud and debris should be removed from waterworks access roads and associated drainage systems. 	√			
 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. 				
 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. 	√			
Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.	1			
Cherrical Waste Management				
 It is required to register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes. 	7			
 After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. 	√			
 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. 	√			
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.	1			
 Be enclosed on at least 3 sides and securely closed. 				



Environmental Checklist		ement	ation	Remark
		Yes No N	N/A	
 Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest. 	V			
Have adequate ventilation.	V			
 Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary). 	V			
 Be arranged so that incompatible materials are adequately separated. 	V			
 Warning panels should be displayed at the waste storage area. 	V			
 Waste storage area should be cleaned and maintained regularly. 	V			
 Chemical waste should be transported by a registered chemical waste collector to a facility licensed to receive chemical waste. 	V			
 All generators, fuel and oil storage should be within bundle areas. 	V			
 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.	V		1	
Good Site Practices				
Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.	V			
Training of site personnel in proper waste management and chemical handling procedures should be provided.	\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. 	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.			V	
Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	V		-	
Chemical storage area provided with lock and located on sealed areas.	V	-		
All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank).	V			
Any unused chemicals or those with remaining functional capacity should be recycled.	V			
Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors.	V			
To encourage collection of aluminium cans by individual collectors, 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			C



Summary of the Weekly Site Inspection

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

Remark

38

	Name	Title	Signature	Date
Checked by	June Lau	ET Representative	1 dar	13 November 2024
			- Cr	

CEDD Contract No.: CV/2023/10



Handling of Surplus Public Fill (2024-2027) - Tseung Kwan O Area 137 Fill Bank

Inspection Date : 20/11/24

Time : 14=30

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

Wind Calm / (ight) Breeze / Strong

5

1

Temperature

17°C

Humidity

(High) Moderate / Low

Inspected by	CEDD	Contractor / Sub-Contactor	ET
Signature:	A	tz.	Mak
Name:			
	Alwey	W.L.Kerok	Mak Ter War
Title	pour.	(= .D	E.T



Environmental Checklist		emen Stages	tation s*	Remark
			N/A	
Fugitive Dust Emission				
 Dust control / mitigation measures shall be provided to prevent dust nuisance. 	V			
 Water sprays shall be provided and used to dampen materials. 	V			
 Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions. 	V			
Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin.	7			
 The designated site main haul road shall be paved or regular watering. 	V			
Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.	V			
 Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank. 	1			
 All plant and equipment should be well maintained e.g. without black smoke emission. 	V			
Open burning should be prohibited.	V			
 The temporary slope surfaces, shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD. 	~			
 When fill material is transfer by belt conveyor systems, the conveyors shall be enclosed on top and 2 sides. 	\vee			
The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt.	$$			
The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the material landing point is maintained at no more than 1m.	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.	1			
 The constructions work should be scheduled to minimize noise nuisance. 	\checkmark			
 Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works. 	1			
 Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials. 	\checkmark			
 Air compressors and hand held breakers should have noise labels. 	\checkmark			
 Compressors and generators should operate with door closed. 	\checkmark			
 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. 	V			



Environmental Checklist			tation s*	Remark
			N/A	
er Quality Drainage system should be adequate and well maintained to prevent flooding and overflow, especially after rain storms				
Drainage system should be adequate and well maintained to prevent flooding and overflow, especially after rain storms.	\checkmark			
The permanent drainage channels should have sediment basin, traps and baffles and maintain properly.	\checkmark		1	
 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. 	\checkmark			
Manholes should be covered and sealed.	\checkmark			
 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	1		
The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.	V			
 The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD. 	1			
Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.	1			
 Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. 	V			
A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains.	V			
 The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains. 	1			
Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided. The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.	1			
Oil interceptor shall be provided at the car parking areas and workshop.	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.	1			
Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.	\checkmark		-	
 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			
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			
Existing silt curtain at the outward side of the basin near the Barging Handling Area throughout the period shall be repair, maintain and service when there is public fill intake by barges to the Fill Bank in accordance with PS Clause 1.68. The total length of the silt curtains shall not be less than 160m, and a gap of about 80m shall be left open for access of barges. The silt curtain shall be properly maintained such that it can also serve the function of refuse containment boom to confine floating refuse.	V		-	
A waste collection vessel shall be deployed to remove floating debris.	V			



Environmental Checklist		ement Stages		Remark
				1
Landscape and Visual				
The design of the fill bank and platform heights adopted should allow the fill bank to fit into the general topography of the surrounding land. Straight edged slopes should be avoided.	V			
 The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD. 				
 Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green / brown) once completed. 	V			
The barging point and the C&DMSF at the fill bank shall not be in operation from 07:00 pm to 08:00 am daily to avoid potential visual impact from glare.	1			
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. 	\checkmark			
 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. 	V			
 Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. 	\checkmark			
 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. 	1			
 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. 	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. 	1			
 Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility. 	V			
 Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area. 	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. 	1			
Be enclosed on at least 3 sides and securely closed.	\checkmark			



Environmental Checklist		ement	ation	Remark
	Yes	No	N/A	
 Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest. 	V			
 Have adequate ventilation. 	V			
Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary).	\checkmark			
Be arranged so that incompatible materials are adequately separated.	V			
Warning panels should be displayed at the waste storage area.	V			
Waste storage area should be cleaned and maintained regularly.	V			
Chemical waste should be transported by a registered chemical waste collector to a facility licensed to receive chemical waste.	V			
All generators, fuel and oil storage should be within bundle areas.				
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.	\checkmark			
The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place.	- 1			
Good Site Practices				
Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.	V			
Training of site personnel in proper waste management and chemical handling procedures should be provided.	\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	-		
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.	1			
Construction noise permits should be posted at site entrance or available for site inspection.			\checkmark	
Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	V			100 C
Chemical storage area provided with lock and located on sealed areas.	V			
All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank).	J			
Any unused chemicals or those with remaining functional capacity should be recycled.	1			
Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors.	, V			
To encourage collection of aluminium cans by individual collectors, separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce.	1			
A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods.	1			
A collection area should be provided where waste can be stored and loaded prior to removal from site. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light material. If an open area is unavoidable for the storage or loading/unloading of wastes, then the area should be bunded and all the polluted surface run-off collected within this area should be diverted into wastewater treatment system.	V			



Summary of the Weekly Site Inspection

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

Remark

	Name	Title	Signature	Date
Checked by	June Lau	ET Representative		20 November 2024
			Q	



Inspection Date : 27 | 11 | 2024Time : 1430

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

 Wind
 Calm / Light/ Breeze / Strong

Temperature :

22

Humidity : High / Moderate / Cow

Inspected by	CEDD	Contractor / Sub-Contactor	ET
Signature:		Ą	1
Name:			6
	YLN ong	W.L-kwok	$((\cdot))$
Title	Ason	E.O	En



Environmental Checklist		emen Stages	tation	Remark
			N/A	
Fugitive Dust Emission				
Dust control / mitigation measures shall be provided to prevent dust nuisance.	\checkmark			
 Water sprays shall be provided and used to dampen materials. 	1			
Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions.	\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			
 The designated site main haul road shall be paved or regular watering. 	V			
Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site.	V			
 Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank. 	\checkmark			
 All plant and equipment should be well maintained e.g. without black smoke emission. 	\checkmark			
 Open burning should be prohibited. 	V			
 The temporary slope surfaces, shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD. 	V			
When fill material is transfer by belt conveyor systems, the conveyors shall be enclosed on top and 2 sides.	\checkmark			
The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt.	1			
The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the material landing point is maintained at no more than 1m.	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.	\checkmark			
 The constructions work should be scheduled to minimize noise nuisance. 	\checkmark			
 Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works. 	V			
 Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials. 	\checkmark			
 Air compressors and hand held breakers should have noise labels. 	\checkmark			
 Compressors and generators should operate with door closed. 	\checkmark			
Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	V			
Noisy equipment and mobile plant shall always be site away from NSRs.				



Environmental Checklist		ement Stages		Remark	
/ater Quality					
Drainage system should be adequate and well maintained to prevent flooding and overflow, especially after rain storms.	V				
The permanent drainage channels should have sediment basin, traps and baffles and maintain properly.	\checkmark	1			
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.	V				
Manholes should be covered and sealed.	\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	V				
The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.	V	-	-		
The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.	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.	V				
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.	√				
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.	1				
Oil interceptor shall be provided at the car parking areas and workshop.	\checkmark	<u>(</u>			
Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water.	V				
The barges shall be in right size such that adequate clearance in maintained between the vessels and the seabed at all states of the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller wash.	V				
All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport.	V				
Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.	V				
Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal.	V				
The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities.	V				
Existing silt curtain at the outward side of the basin near the Barging Handling Area throughout the period shall be repair, maintain and service when there is public fill intake by barges to the Fill Bank in accordance with PS Clause 1.68. The total length of the silt curtains shall not be less than 160m, and a gap of about 80m shall be left open for access of barges. The silt curtain shall be properly maintained such that it can also serve the function of refuse containment boom to confine floating refuse.	1				
A waste collection vessel shall be deployed to remove floating debris.					



Environmental Checklist		ement Stages		Remark
	Yes	No	N/A	
Landscape and Visual				
The design of the fill bank and platform heights adopted should allow the fill bank to fit into the general topography of the surrounding land. Straight edged slopes should be avoided.	V			
The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD.	V			
 Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green / brown) once completed. 	1			
The barging point and the C&DMSF at the fill bank shall not be in operation from 07:00 pm to 08:00 am daily to avoid potential visual impact from glare.	V			
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. 	\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. 	√			
 Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials. 	√			
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. 	√			
 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. 	√		200	
 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. 	$$			



Environmental Checklist		ement Stages	ation *	Remark
	Yes	No	N/A	
 Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest. 	V			
 Have adequate ventilation. 	V			
 Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary). 	V			
Be arranged so that incompatible materials are adequately separated.	V			
Warning panels should be displayed at the waste storage area.	\checkmark			
Waste storage area should be cleaned and maintained regularly.	V			
Chemical waste should be transported by a registered chemical waste collector to a facility licensed to receive chemical waste.	V			
All generators, fuel and oil storage should be within bundle areas.	V			
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.	\checkmark			
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.	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.			V	
Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	V			
Chemical storage area provided with lock and located on sealed areas.	V			
All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank).		· · · · · · · · ·		
Any unused chemicals or those with remaining functional capacity should be recycled.	V			
Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors.	V			
To encourage collection of aluminium cans by individual collectors, 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.	\checkmark			
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)	Follow up Date

Remark

	Name	Title	Signature	Date
Checked by	June Lau	ET Representative		27 November 2024



Appendix I

Implementation Schedule of Mitigation Measures



Handling of Surplus Public Fill (2024-2027) – Tseung Kwan O Area 137 Fill Bank Contract No.: CV/2023/10

Environmental Mitigation Implementation Schedule

			Implementation Status					
	Environmental Protection Measures	Location	Implemented	Partially implemented	Not implemented	Not Applicable		
A	ir Quality							
•	Dust control / mitigation measures shall be provided to prevent dust nuisance.	All areas						
•	A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading / unloading and similar activities should be allowed.	Northern Site Boundary						
•	Water sprays shall be provided and used to dampen materials.	All areas	\checkmark					
-	Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions.	All areas	\checkmark					
•	All vehicles shall be restrict to a maximum speed of 10 km per hour.	All areas	\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.	Site Egress						
•	The designated site main haul rout shall be paved or regular watering.	All haul roads	\checkmark					
-	Frequent watering of work site shall be at least three times per day.	All areas	\checkmark					
•	Wheel washing facilities including high pressure water jet shall be provided at the entrance of work site.	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	\checkmark					
•	The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.	All areas	\checkmark					
•	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.	All areas	\checkmark					
-	When fill material is transfer by belt conveyor systems, the conveyors shall be enclosed on top and 2 sides.	C&DMSF	\checkmark					
•	The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt.	C&DMFS	\checkmark					
•	The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the material landing point is maintained at no more than 1m.	C&DMFS	\checkmark					
•	All plant and equipment should be well maintained e.g. without black smoke emission.	All areas	\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).	All areas		\checkmark				
N	oise Impact							
•	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 site works.	All areas	\checkmark			1		
•	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	\checkmark					
•	Machines and plants that may be in intermittent use should be shut down between work months 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						



Handling of Surplus Public Fill (2024-2027) – Tseung Kwan O Area 137 Fill Bank Contract No.: CV/2023/10

		Implementation Status					
Environmental Protection Measures	Location	Implemented	Partially implemented	Not implemented	Not Applicable		
Water Quality							
 Drainage system should be adequate and well maintained to prevent flooding and overflow, especially after rain storms. 	All areas	\checkmark					
 The permanent drainage channels should have sediment basin, traps and baffles and maintain properly. 	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					
 Manholes should be covered and sealed. 	All areas	\checkmark					
 Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding. 	All areas		\checkmark				
• A buffer distance of at least 100m shall be maintained between the boundary of the public fill stockpiling area and the sea front.	Public fill stockpiling area	\checkmark					
 A buffer distance of at least 20m shall be maintained between the boundary of the C&DMSF and the seafront. 	C&DMFS	\checkmark					
 The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge. 	All areas	\checkmark					
 The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD. 	Temporary Slopes	\checkmark					
 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. 	Temporary Slopes	\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. 	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. 	Wheel Washing facility	\checkmark					
 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. 	All areas	\checkmark					
 Oil intercept in addition of sand / silt removal facilities shall be provided at the car parking areas and work shop. 	All areas	\checkmark					
Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water.	Barge Handling Area (BHA)	\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.	Barge Handling Area (BHA)	\checkmark					
 All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport. 	Barge Handling Area (BHA)	\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					
 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. 	Barge Handling Area (BHA)	\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.	Along the seafront	\checkmark					
 Existing silt curtain at the outward side of the basin near the Barging Handling Area throughout the period shall be repair, maintain and service when there is public fill intake by barges to the Fill Bank in accordance with PS Clause 1.68. The total length of the silt curtains shall not be less than 160m, and a gap of about 80m shall be left open for access of barges. The silt curtain shall be properly maintained such that it can also serve the function of refuse containment boom to confine floating refuse. 	Along the seafront						
 A waste collection vessel shall be deployed to remove floating debris. 	Along the seafront	\checkmark					



Handling of Surplus Public Fill (2024-2027) – Tseung Kwan O Area 137 Fill Bank Contract No.: CV/2023/10

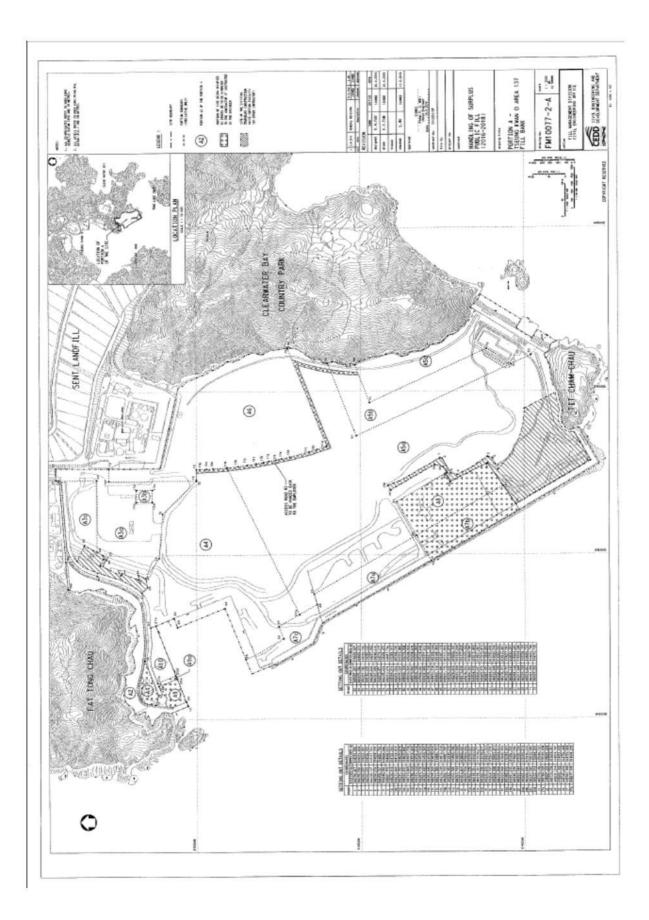
			Implementati	Implementation Status					
Environmental Protection Measures	Location	Implemented	Partially implemented	Not implemented	Not Applicable				
Landscape and Visual									
• The design of the fill bank and platform heights adopted should allow the fill bank to fit into the general topography of the surrounding land. Straight edged slopes should be avoided.	All areas	\checkmark							
• The maximum stockpiling height at the fill bank shall be limited to a maximum of +35.2mPD.	Completed slopes	\checkmark							
• Surface of outer slopes of the fill bank shall preferably be hydroseeded or covered with geo-textile matting of appropriate colour (e.g. dark green / brown) once completed.	Site boundary	\checkmark							
• The barging point and the C&DMSF at the fill bank shall not be in operation from 07:00 pm to 08:00 am daily to avoid potential visual impact from glare.	All areas	\checkmark							
Other Environmental Factors									
C&D waste sorted from mixed C&D material shall be transfer to SENT landfill for disposal.	All areas	\checkmark							
Plan and stock construction materials carefully to minimise generation of waste.	All areas	\checkmark							
Any unused materials or those with remaining functional capacity should be recycled.	All areas	\checkmark							
All generators, fuel and oil storage are within bunded areas.	All areas	\checkmark							
Oil leakage from machinery, vehicle and plant is prevented.	All areas		\checkmark						
The Environmental Permit should be displaced conspicuously on site.	All areas	\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.	All areas	\checkmark							
To encourage collection of aluminium cans by individual collectors, separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce.	All areas	\checkmark							



Appendix J

Site General Layout plan







Appendix K

Monthly Summary Waste Flow Table

Monthly Summary Waste Flow Table for 2024

		Actual Quantitie	s of Inert C&I	Materials Gene	rated Monthly			Actual Quantitie	es of C&D Wa	stes Generated Mo	nthly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)
Jan											
Feb											
Mar											
Apr											
May											
Jun											
Sub-total											
Jul											
Aug	0	0	0	0	0	0	135.63	0	0	0	60.35
Sep	0	0	0	0	0	0	111.48	0	0	0	245.58
Oct	0	0	0	0	0	0	161.81	0	0	0	131.52
Nov	0	0	0	0	0	0	197.64	0	0	0	69.8
Dec											
Total	0	0	0	0	0	0	606.56	0	0	0	507.25

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

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

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

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

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(5) This waste flow table is under Contract (No. CV/2023/10) and the quantities of materials shown in the table is the sum of the material quantities generated by TKO137 Fill Bank and TM38 Fill Bank



Appendix L

Monitoring Schedule for the Coming Month



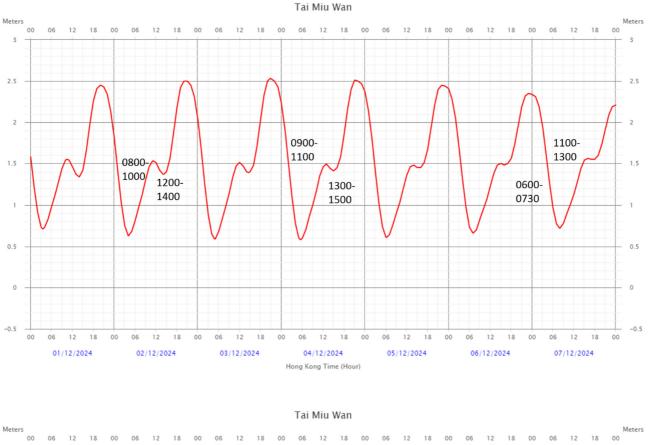
Time Schedule for Impact Water Quality Monitoring (WQM), Impact Air Monitoring (1-hrTSP, 24-hr TSP), Weekly Site Inspection (Weekly SI) and Impact Noise Monitoring December 2024

Sunday	Monday	Tuesday Wednesday		Thursday	Friday	Saturday
1-Dec	2-Dec	3-Dec	4-Dec	5-Dec	6-Dec	7-D
	24 hr TSP		1-hr TSP x 2 Weekly SI (pm)		1-hr TSP x 1 Set 24 hr (7/12)	24 hr TSP
	Mid-flood (08:00-10:00) Mid-ebb (12:00-14:00)		Mid-flood (09:00-11:00) Mid-ebb (13:00-15:00)			Mid-ebb (06:00-07:30) Mid-flood (11:00-13:00)
8-Dec	9-Dec	10-Dec	, 11-Dec	12-Dec	13-Dec	14-D
	1-hr TSP x 2 NM		1-hr TSP x 1 Weekly SI (pm)		24 hr TSP	
	Mid-ebb (06:30-08:30) Mid-flood (12:00-14:00)		Mid-ebb (08:00-10:00) Mid-flood (13:00-15:00)		Mid-ebb (09:30-11:30) Mid-flood (14:00-16:00)	
15-Dec	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	21-D
	1-hr TSP x 2		1-hr TSP x 1 Set 24 hr (19/12) Weekly SI (pm)	24 hr TSP	1-hr TSP x 2	
	Mid-flood (08:00-10:00) Mid-ebb (12:00-14:00)		Mid-flood (08:30-10:30) Mid-ebb (13:00-15:00)			Mid-ebb (06:00-07:30) Mid-flood (11:00-13:00)
22-Dec	23-Dec	24-Dec	25-Dec	26-Dec	27-Dec	28-D
	1-hr TSP x 1 Set 24 hr (25/12)		24 hr TSP		1-hr TSP x 2	
		Mid-ebb (06:30-08:30) Mid-flood (13:00-15:00)			Mid-ebb (09:00-11:00) Mid-flood (13:30-15:30)	
29-Dec	30-Dec		1-Jan	2-Jan	3-Jan	4-J
	1-hr TSP x 1 Set 24 hr (31/12)	24 hr TSP			1-hr TSP x 3	
	Mid-ebb (11:00-13:00) Mid-flood (15:30-17:30)			Mid-flood (08:00-10:00) Mid-ebb (13:00-15:00)		Mid-flood (09:00-11:00) Mid-ebb (15:00-17:00)

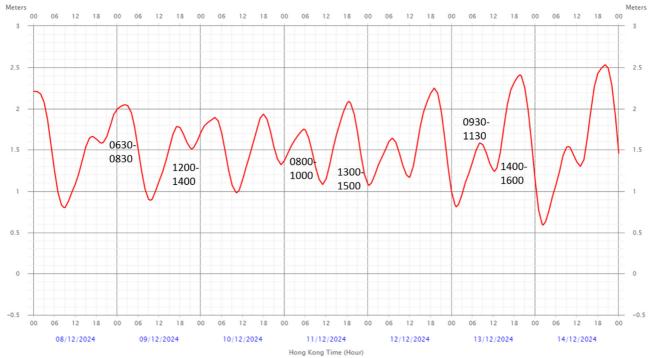
Remark: 1. TKO 137 Fill Bank is closed on General Holidays.



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

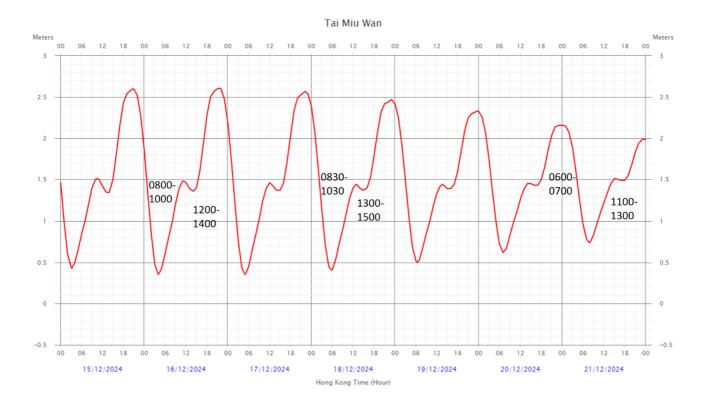


December 2024

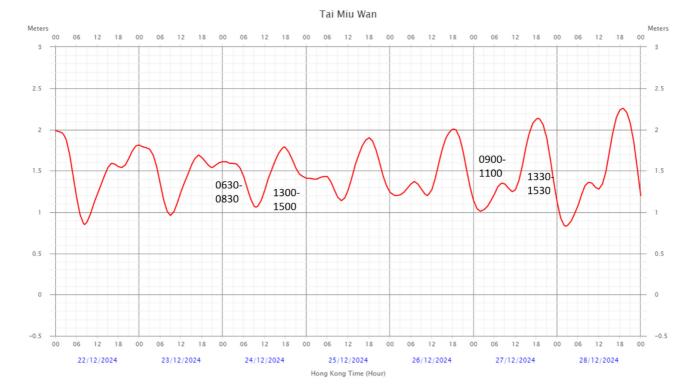




Predicted tide schedule from the Hong Kong Observatory for Impact Water Quality Monitoring (WQM)

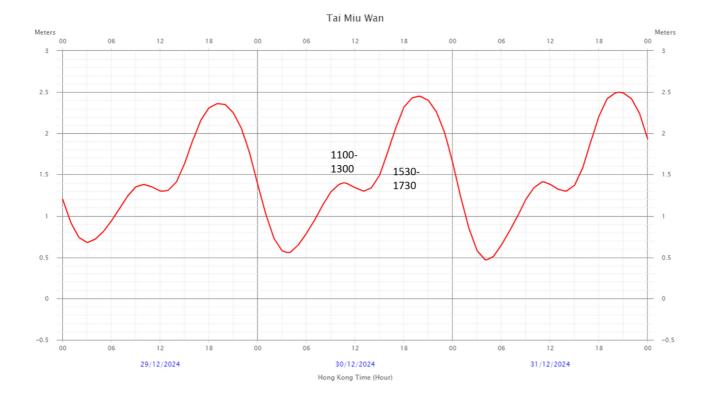


December 2024





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



December 2024



Appendix M

Reporting Month Monitoring Schedule



Time Schedule for Impact Water Quality Monitoring (WQM), Impact Air Monitoring (1-hrTSP, 24-hr TSP), Weekly Site Inspection (Weekly SI) and Impact Noise Monitoring November 2024

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	/
27-Oct	28	I-Oct 29-O	ct 30-Oct	31-Oc	t 1-Nov		2-1
	24 hr TSP Weekly SI (pm)		1-hr TSP x 2		1-hr TSP x 1 Set 24 hr (2/11)	24 hr TSP	
	Mid-ebb (09:00-11:00) Mid-flood (15:00-17:00)		Mid-ebb (10:00-12:00) Mid-flood (15:30-17:30)		Mid-ebb (11:00-13:00) Mid-flood (16:00-18:00)		
3-Nov	4	-Nov 5-No	v 6-Nov	7-Nov	/ 8-Nov		9-
	1-hr TSP x 2 NM		1-hr TSP x 1 Weekly SI (pm)		24 hr TSP		
	Mid-flood (08:00-10:00) Mid-ebb (12:30-14:30)			Mid-ebb (05:00-06:30) Mid-flood (10:00-12:00)		Mid-ebb (07:00-09:00) Mid-flood (13:00-15:00)	
10-Nov	11-	-Nov 12-No	v 13-Nov	14-Nov	/ 15-Nov		16-
	1-hr TSP x 2 Mid-ebb (08:00-10:00) Mid-flood (14:00-16:00)		1-hr TSP x 1 Set 24 hr (14/11) Weekly SI (am) Mid-ebb (09:00-11:00) Mid-fileod (14:30-16:30)	24 hr TSP	1-hr TSP x 2 Mid-ebb (11:00-13:00) Mid-flood (15:30-17:30)		
17-Nov		-Nov 19-No		21-Nov			23
	1-hr TSP x 1		24 hr TSP Weekly SI (pm)		1-hr TSP x 2		
	Mid-flood (08:00-10:00) Mid-ebb (12:30-14:30)			Mid-ebb (06:00-07:30) Mid-flood (10:00-12:00)		Mid-ebb (07:00-08:30) Mid-flood (12:00-14:00)	
24-Nov	25	-Nov 26-No	v 27-Nov	28-Nov	/ 29-Nov		30-
	1-hr TSP x 1 Set 24 hr (26/11)	24 hr TSP	1-hr TSP x 2 Weekly SI (pm)		1-hr TSP x 1		
	Mid-ebb (08:00-10:00) Mid-flood (13:00-15:00)		Mid-ebb (09:00-11:00) Mid-flood (14:00-16:00)		Mid-ebb (10:30-12:30) Mid-flood (15:00-17:00)		

TKO 137 Fill Bank is closed on General Holidays.
 Water quality monitoring (Mid-Flood) on 13/11/2024 was cancelled due to the adverse weather condition (The Tropical Cyclone Signal No.3).



Appendix N

Complaint Log



Complaint Logs

Log Ref.	Location	Received Date	Details of Complaint	Investigation / Mitigation Action	Status
001	Barge handling area (BHA) at Tseung Kwan O 137	15 May 2017	One complaint received on 15 May 2017, which was forwarded to ET on 11 August 2017, from CEDD (Complaint NCF- N08/RE/00014875-17 Sent By CSO[RN]3 [CASE#2- 3943858817 Int.Comm. – WS170513A57354] against illegal dumping at sea without permit in TKO137 fill bank.	 Refer to the ET site investigation on 14 August 2017, the contractor clarified that the contractor conducted vessel loading test at Tseung Kwan O 137 Fill bank on 13 May 2017 and the material was then unloaded from the vessels. Follow up action to complaint by ET and contractor: Contractor under the valid dumping permit to dump fill materials and the site works shall be complied with the relevant environmental protection and pollution control ordinances. ET reminded contractor that the dump fill material under the valid dumping permit should be checked and confirmed. In addition, record should be kept for ET reference. Details of Action(s) Taken by the Contactor: The contractor started to dump fill materials from 19 May 2017 after receiving the valid dumping permit. The contractor dump fill materials were followed by the valid dumping permit and the permit was kept apply every three month The contractor kept the permit for ET reference. 	Closed
002	Tseung Kwan O 137 Fill Bank	12 Oct 2017	One complaint received on 12 October 2017, which was forwarded to ET on 18 October 2017, from public against dust emission at the fill bank and discharge of muddy water to the seafront.	 Refer to the ET weekly site inspection on 18 October 2017, no defective observation related to dust emission and discharge of water was recorded during the investigation. Details of Action(s) Taken by the Contactor: Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank; Mist spraying systems at the site entrance are operated properly; 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; All dusty material is sprayed with water prior to loading, unloading or transfer so as to maintain the material wet; 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; Silt curtains are provided at the outward side of the basin near the Fill Bank; Drainage systems are adequate and maintained to prevent flooding and overflow; 	Closed



003	Tseung Kwan O 137 Fill Bank	09 April 2018	One complaint received on 09 April 2018, which was forwarded to ET on 18 April 2018, from public against the rocks and debris deposited on the road surface along Wan Po Road near TKO137 Fill Bank. The complainant complained that waste generated caused an environmental nuisance.	 Refer to the ET site investigation on 20 April 2018, the condition of Wan Po Road near TKO137 Fill Bank was found satisfactory. (Photos on ET follow-up investigation at TKO137 Fill Bank on 20 April 2018). Details of Action(s) Taken by the Contactor: Regular cleaning on Wan Po Road and the access road at the site exit by haul road cleaning team to remove mud and gravel is arranged eight times per month; Regular water spraying by water lorries is provided for road cleaning at Wan Po Road; Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving; Site vehicles for transporting materials are covered properly by using clean tarpaulin sheets; Regular cleaning at the site haul road is provided. 	Closed
004	Tseung Kwan O 137 Fill Bank	13 January 2019	One complaint received on 13 January 2019, which was forwarded to ET on 16 January 2019, from EPD (NCF-N08/RE/00001348- 19) against 將軍澳137 堆填 區內,缸車池污水,不經處 理,直接排到河道,河道係 直接流出大海,極度嚴重影 響周遭環境生態,污染程度 極為嚴重,促請政府有關部 門嚴正跟進!	 After received the details of the complaint from the Contractor on 16 January 2019, ET have performed a site investigation on 21 January 2019 to investigate this event. During the site inspection, no muddy water was observed discharged from the Fill Bank to nearby environment. Besides, refer to the marine water monitoring results during that period, no exceedance was recorded on Turbidity and Suspended Solids. This reflects that this occurrence did not affect the condition of marine water near the TKO137Fill Bank. Details of Action(s) Taken by the Contactor: Drainage system were adequate and well maintained to prevent flooding and overflow; Sand and silt removal facilities, e.g. silting screen, were provided before the discharge point; Temporary intercepting drains were used at the stockpiling area to divert polluted stormwater to the intercepting channels. Earth bunds and sand bay barriers were used to assist the diversion of polluted stormwater to the intercepting channels were maintained, and the deposited silt and grit were 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; 	Closed



005	Tseung Kwan O 137 Fill Bank	14 May 2019	One complaint received on 14 May 2019, which was forwarded to ET on 14 May 2019, from public against 投訴將軍澳第 137 區填料 庫,有車出入沒有灑水傳出 大量沙塵,破壞環境,帶出 大量沙泥到馬路,造成污染 及嚴重滋擾,要求跟進。要 求改善,停止滋擾	 Refer to the ET site investigation on 15 May 2019, the condition of Wan Po Road near TKO137 Fill Bank was found satisfactory. (Photos on ET follow-up investigation at TKO137 Fill Bank on 15 May 2019). Details of Action(s) Taken by the Contactor: Regular cleaning on Wan Po Road and the access road at the site exit by haul road cleaning team to remove mud and gravel is arranged eight times per month; Regular water spraying by water lorries is provided for road cleaning at Wan Po Road; Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving; Site vehicles for transporting materials are covered properly by using clean tarpaulin sheets; Regular cleaning at the site haul road is provided. 	Closed
006	Tseung Kwan O 137 Fill Bank	11 June 2019	One complaint received on 04 June 2019, which was forwarded to ET on 11 June 2019, from public regarding the muddy water problem at 137 fill bank.	 After received the details of the complaint from the Contractor on 11 June 2019, ET have performed a site investigation on 14 June 2019 to investigate this event. During the site inspection, no muddy water was observed discharged from the Fill Bank to nearby environment. Besides, refer to the marine water monitoring results during that period, no exceedance was recorded on Turbidity and Suspended Solids during the concerning period. This reflects that this occurrence did not affect the condition of marine water near the TKO137Fill Bank. Details of Action(s) Taken by the Contactor: Drainage system were adequate and well maintained to prevent flooding and overflow; Sand and silt removal facilities, e.g. silting screen, were provided before the discharge point; Temporary intercepting drains were used at the stockpiling area to divert polluted stormwater to the intercepting channels. Earth bunds and sand bay barriers were used to assist the diversion of polluted stormwater to the intercepting channels. Catchpits and intercepting channels were maintained, and the deposited silt and grit were 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; 	Closed



007	Tseung Kwan O 137 Fill Bank	27 June 2019	One complaint received on 27 June 2019, which was forwarded to ET on 28 June 2019, from public against dust emission at the fill bank. The complainant complained that the dust caused an environmental nuisance.	 Refer to the ET site investigation on 02 July 2019, no defective observation related to dust emission was recorded during the investigation. No impact air quality monitoring result of 1-hr TSP and 24-hr TSP was exceeded Action and Limit Level at all monitoring stations from 24 to 28 June 2019. Details of Action(s) Taken by the Contactor: Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank; Mist spraying systems at the site entrance are operated properly; 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; All dusty material is sprayed with water prior to loading, unloading or transfer so as to maintain the material wet; Truck speed within the site is limited within 10 km/h; Regular cleaning at the site haul road is provided to minimize the fugitive dust emission; 	Closed
008	Tseung Kwan O 137 Fill Bank	17 July 2019	One complaint received on 17 July 2019, which was forwarded to ET on 17 July 2019, from public against 投訴將軍澳堆填 137 區及收 泥頭區,於運作時產生大量 沙塵,嚴重污染周圍環境及 影響行人,情況已持續發生 了幾日	 Refer to the ET site investigation on 19 July 2019, no defective observation related to dust emission was recorded during the investigation. No impact air quality monitoring result of 1-hr TSP and 24-hr TSP was exceeded Action and Limit Level at all monitoring stations from 2 to 17 July 2019. Details of Action(s) Taken by the Contactor: Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank; Mist spraying systems at the site entrance are operated properly; 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; All dusty material is sprayed with water prior to loading, unloading or transfer so as to maintain the material wet; Truck speed within the site is limited within 10 km/h; Regular cleaning at the site haul road is provided to minimize the fugitive dust emission; 	Closed



009	Tseung Kwan O 137 Fill Bank	26 July 2019	One complaint received on 26 July 2019, which was forwarded to ET on 26 July 2019, from public against 投訴將軍澳第 137 區填料 庫,大風吹起引致塵埃飛 揚,更吹到 TVB,造成嚴重 滋擾,要求跟進及回覆。	 Refer to the ET site investigation on 29 July 2019, no defective observation related to dust emission was recorded during the investigation. No impact air quality monitoring result of 1-hr TSP and 24-hr TSP was exceeded Action and Limit Level at all monitoring stations from 23 to 29 July 2019. Details of Action(s) Taken by the Contactor: Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank; Mist spraying systems at the site entrance are operated properly; 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; All dusty material is sprayed with water prior to loading, unloading or transfer so as to maintain the material wet; Truck speed within the site is limited within 10 km/h; Regular cleaning at the site haul road is provided to minimize the fugitive dust emission; 	Closed
010	Tseung Kwan O 137 Fill Bank	09 September 2019	One complaint received on 09 September 2019, which was forwarded to ET on 09 September 2019, from public against 投訴將軍澳 第 137 區填料庫,大風吹起 引致塵埃飛揚,更吹到日出 康城,造成嚴重滋擾,要求 跟進及回覆。	 Refer to the ET site investigation on 11 September 2019, no defective observation related to dust emission was recorded during the investigation. No impact air quality monitoring result of 1-hr TSP and 24-hr TSP was exceeded Action and Limit Level at all monitoring stations from 1 to 13 September 2019. Details of Action(s) Taken by the Contactor: Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank; Mist spraying systems at the site entrance are operated properly; 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; All dusty material is sprayed with water prior to loading, unloading or transfer so as to maintain the material wet; Truck speed within the site is limited within 10 km/h; Regular cleaning at the site haul road is provided to minimize the fugitive dust emission; 	Closed



011	Tseung Kwan O 137 Fill Bank	10 September 2019	One complaint received on 10 September 2019, which was forwarded to ET on 10 September 2019, from public against 投訴將軍澳 137 區經常於處理建築廢料時 沒有灑水,導致沙塵滾滾,嚴 重污染環境,要求環保署跟進 及回覆。	 Refer to the ET site investigation on 11 September 2019, no defective observation related to dust emission was recorded during the investigation. No impact air quality monitoring result of 1-hr TSP and 24-hr TSP was exceeded Action and Limit Level at all monitoring stations from 1 to 13 September 2019. Details of Action(s) Taken by the Contactor: Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank; Mist spraying systems at the site entrance are operated properly; 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; All dusty material is sprayed with water prior to loading, unloading or transfer so as to maintain the material wet; Truck speed within the site is limited within 10 km/h; Regular cleaning at the site haul road is provided to minimize the fugitive dust emission; 	Closed
012	Tseung Kwan O 137 Fill Bank	24 August 2021	One complaint received on 24 August 2021, which was forwarded to ET on 30 August 2021, from public against 投訴將軍澳第 137 區公眾填料庫,灑水不足, 泥頭車引起大量塵埃。	 Refer to the ET site investigation on 30 August 2021, no defective observation related to dust emission was recorded during the investigation. No impact air quality monitoring result of 1-hr TSP and 24-hr TSP was exceeded Action and Limit Level at all monitoring stations from 20 August 2021 to 30 August 2021. Details of Action(s) Taken by the Contactor: Repairing work on water truck was conducted. Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank; Mist spraying systems at the site entrance are operated properly; 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; All dusty material is sprayed with water prior to loading, unloading or transfer so as to maintain the material wet; Truck speed within the site is limited within 10 km/h; Regular cleaning at the site haul road is provided to minimize the fugitive dust emission; 	Closed



013	Tseung Kwan O 137 Fill Bank	25 November 2021	A complaint was received on 25 November 2021, which was forwarded to ET by email on 26 November 2021, from public against 投訴將軍澳 137 公眾填料庫 地盤灑水不足,大量塵埃,吹 到 TVB 電視城一帶,問題一 直無改善,要求環保署跟進 及電郵回覆	 Refer to the ET site investigation on 29 November 2021, no defective observation related to dust emission was recorded during the investigation. No impact air quality monitoring result of 1-hr TSP and 24-hr TSP was exceeded Action and Limit Level at all monitoring stations from 24 November 2021 to 29 November 2021. Details of Action(s) Taken by the Contactor: Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank; Mist spraying systems at the site area are operated properly; Regular cleaning at the site haul road is provided to minimize the dust emission 	Closed
014	Tseung Kwan O 137 Fill Bank	18 July 2022	A complaint was received on 18 July 2022, which was forwarded to ET by email on 18 July 2022, from public against "投訴將軍 澳第 137 區填料庫的塵埃很 大,吹向四周,影響附近工 作的人,要求跟進及回覆"	 Refer to the ET site investigation on 20 July 2022, no defective observation related to dust emission was recorded during the investigation. No impact air quality monitoring result of 1-hr TSP and 24-hr TSP was exceeded Action and Limit Level at all monitoring stations from 15 July 2022 to 20 July 2022. Details of Action(s) Taken by the Contactor: Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank; Mist spraying systems at the site area are operated properly; Regular cleaning at the site haul road is provided to minimize the dust emission 	Closed



015	Tseung Kwan O 137 Fill Bank	08 August 2022	A complaint was received on 08 August 2022, which was forwarded to ET by email on 08 August 2022, from public regarding muddy discharge near the Area 137 Fill Bank and Sorting Facility.	 Refer to the EPD inspection on 09 August 2022, a large area of exposed soil was observed next to the surface channel connecting to the outfall. Soil may be washed down the surface channel and causes muddy discharge. Refer to the ET site investigation on 12 August 2022, no defective observation related to muddy discharge was recorded during investigation. Details of Action(s) Taken by the Contactor: Filers or baffles were added to the outfall to intercept soil and other pollutants in the water before discharge. Regular cleaning, especially the drainage system, was provided to prevent the runoff of muddy water. 	Closed
016	Tseung Kwan O 137 Fill Bank	12 August 2022	A complaint was received on 12 August 2022, which was forwarded to ET by email on 15 August 2022, from public against "I recently observed yellowish water flowing out to the sea, near the shore of the Tseung Kwan O Area 137 Fill Bank after rain in this week. Looking from outside the Area 137, there are a lot of soil exposed at the site. Could that be the source of soil being washed off to the sea?"	 Refer to the EPD inspection on 09 August 2022, a large area of exposed soil was observed next to the surface channel connecting to the outfall. Soil may be washed down the surface channel and causes muddy discharge. Refer to the ET site investigation on 12 and 17 August 2022, no defective observation related to muddy discharge was recorded during investigation. Details of Action(s) Taken by the Contactor: Filers or baffles were added to the outfall to intercept soil and other pollutants in the water before discharge. Regular cleaning, especially the drainage system, was provided to prevent the runoff of muddy water. 	Closed



017	Tseung Kwan O 137 Fill Bank	25 October 2022	A complaint was received on 25 October 2022, which was forwarded to ET by email on 25 October 2022, from public against "投訴將軍澳 137 區填料庫今日早上出現小龍 捲風將泥塵吹向小西灣一 帶"	 Refer to the ET site investigation on 26 October 2022, no defective observation related to dust emission was recorded during the investigation. Details of Action(s) Taken by the Contactor: Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank; Regular cleaning at the site haul road is provided to minimize the dust emission 	Closed
018	Tseung Kwan O 137 Fill Bank	14 November 2022	A complaint was received on 14 November 2022, which was forwarded to ET by email on 14 November 2022, from public against " complained the dust nuisance (the dark dust blowing around the sky and high PM 2.5) at Tseung Kwan O Area 137 Fill Bank , this has been going for a while ."	 Refer to the ET site investigation on 14 November 2022, no defective observation related to dust emission was recorded during the investigation. Details of Action(s) Taken by the Contactor: Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank; Regular cleaning at the site haul road is provided to minimize the dust emission 	Closed

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019	Tseung Kwan O 137 Fill Bank	02 October 2024	A complaint referred by 1823 was received on 02 October 2024, which was forwarded to ET by email on 02 October 2024, from public against "投訴蔣軍 澳 137 泥尾泥塵大,要求加 強水車灑水"		Closed
				 Details of Action(s) Taken by the Contactor: Increasing frequency of water spraying by water lorries from four times per day to five times per day, to suppress dust emission inside the Fill Bank Regular cleaning at the site haul road is provided to minimize the dust emission; Site vehicles are washed to remove any dusty materials by using high pressure water jet manually at the entrance of work site before leaving 	



Figures

