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TEST REPORT



# **China Harbour Engineering Co Ltd**

Contract No.: CV/2021/09 Handling of Surplus Public Fill (2022-2023)

TSEUNG KWAN O AREA 137 FILL BANK

QUARTERLY EM&A SUMMARY REPORT NO.07

(FROM JULY 2023 TO SEPTEMBER 2023)

Prepared by:

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Environmental Team Leader

Issue Date: 19 October 2023

Report No: ENA36723

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Our Ref: PL-202401020

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

Attention: Mr. C L Lau

11 January 2024

Dear Mr. Lau,

# RE: Contract No. CV/2021/09 Handling of Surplus Public Fill (2022-2023) Quarterly EM&A Report (No. 7) for July to September 2023 for the Tseung Kwan O Area 137 <u>Fill Bank</u>

Reference is made to your submission of the Quarterly EM&A Report for July to September 2023 for the Tseung Kwan O Area 137 Fill Bank, we are pleased to inform you that we have no adverse comment on the captioned report.

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

Yours faithfully,

Toam Jan Bearg

F. C. Tsang Independent Environmental Checker

cc. CEDD – Mr. T M YEUNG



TABLE OF CONTENTS

ENA36723 Quarterly EM&A Summary Report No.07

TABLE	TABLE OF CONTENTS F		
EXECUT	IVE SUMMARY		
1.0 2.0	INTRODUCTION PROJECT INFORMATION	1	
2.0	2.1 Scope of the Project	1	
	2.2 Site Description	1	
	2.3 Project Activities	2	
	2.4 Project Organization and Management Structure	2	
	2.5 Contact Details of Key Personnel	2	
3.0	SUMMARY OF EM&A REQUIREMENTS		
	3.1 EM&A Programme	2	
	3.2 Monitoring Stations and Parameters	2	
	3.3 Monitoring Methodology and Calibration Details	2	
	3.4 Environmental Quality Performance Limits (Action/Limit Levels)	3	
	3.5 Environmental Mitigation Measures	3	
4.0	MONITORING RESULTS		
	4.1 Air Quality	3	
	4.2 Noise	4	
	4.3 Marine Water Quality	4	
5.0	INSPECTION RESULTS		
	5.1 Inspection Results	5	
	5.2 Status of Environmental Licensing and Permitting	5 – 6	
	5.3 Advice on Solids and Liquid Waste Management Status	7	
6.0	NON-COMPLIANCE OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMIT	-	
	6.1 Summary of Non-compliance	7	
	6.2 Review of the Reasons for and the implication of non-compliance	7	
	6.3 Summary of Action Taken	7	
7.0	6.4 Summary of Environmental Complaint, Notification of Summons and Successful	7	
7.0	COMMENTS, CONCLUSIONS AND RECOMMENDATION	8-9	

#### APPENDIX

А Organization Chart and Lines of Communication В Graphical Plots of Impact Air Quality Monitoring Data С Graphical Plots of Impact Noise Monitoring Data D1 Graphical Plots of Impact Marine Water Quality Monitoring Data D2 Graphical Plots of Impact Marine Water Quality Monitoring Data(3RS project) Е Environmental Quality Performance (Action / Limit Levels) F **Event-Action Plans** G Work Programme Н Implementation Schedule of Environmental Mitigation Measures (EMIS) Statistical Analysis of the Trend of Suspended Solids in the Quarter 11 Statistical Analysis of the Trend of Suspended Solids in the Quarter(3RS project) 12 Site General Layout Plan J κ Weather Condition

#### Figures

- Figure 1 Locations of Water Quality Monitoring Stations
- Figure 2 Noise Environmental Monitoring Station
- Figure 3 Locations of Air Quality Monitoring Stations - Tseung Kwan O Area 137 Fill Bank
- Figure 4 Locations of Water Quality Monitoring Stations (3RS project)

Contract No.: CV/2021/09 Handling of Surplus Public Fill (2022-2023) Tseung Kwan O Area 137 Fill Bank



#### Tables

- 2.1 Contact Details of Key Personnel
- 4.1 Summary of Number of Exceedances for 1-hr and 24-hr TSP Monitoring
- 4.2 Comparison of Baseline and Various Period of Average 1-hr and 24-hr TSP Impact Monitoring Results
- 4.3 Summary of Impact Monitoring Results of Noise Daytime Monitoring
- 4.4 Total Number of Marine Water Quality Exceedances in the Quarter
- 4.5 Total Number of Marine Water Quality Exceedances in the Quarter (3RS project)
- 4.6 Summary of Statistically Significant Results of SS
- 4.7 Summary of Statistically Significant Results of SS (3RS project)
- 5.1 Summary of Environmental Licensing and Permit Status
- 5.2 Estimated Offsite Waste Disposal in the Reporting Quarter
- 6.1 Summary of Environmental Complaints and Prosecutions



ENA36723 Quarterly EM&A Summary Report No.07

#### EXECUTIVE SUMMARY

This is Quarterly Environmental Monitoring and Audit (EM&A) Summary Report No.07 prepared by ETS-Testconsult Ltd (ET) for the "Contract No: CV/2021/09 –Handling of Surplus Public Fill (2022-2023) – Tseung Kwan O (TKO) Area 137 Fill Bank" (The Project).

This report documents the findings of EM&A Works conducted during the operation phase of Fill Bank at Tseung Kwan O Area 137 from 01 July 2023 to 30 September 2023.

#### Site Activities

As informed by the Contr July 2023	<ol> <li>Coperation of the Public Fill Reception Facilities at Tseung Kwan O Fill Bank (TKOFB);</li> <li>Operation of dewatering plant at TKOFB;</li> <li>Operation and Maintenance of crushing plants at TKOFB;</li> <li>Operation and Maintenance of Artificial Intelligent System for Crushing Plant at TKOFB;</li> <li>Operation of the Integrated Public Fill Reception at TKOFB;</li> <li>Operation and Maintenance of the Wash House at TKOFB;</li> <li>Operation and Maintenance of the Wash House at TKOFB;</li> <li>Operation and Maintenance of the Wash House at TKOFB;</li> <li>Operation and Maintenance of the Wash House at TKOFB;</li> <li>Operation and Maintenance of the Wash House at TKOFB;</li> <li>Operation and Maintenance a Digital Works Supervision System (DWSS) for TKOFB;</li> <li>Operation and maintenance of Wheel Washing Bays and Facilities at TKOFB;</li> <li>Maintenance of the Drainage Systems at TKOFB;</li> <li>Maintenance of the Drainage Systems at TKOFB;</li> <li>Construction of Gabion Wall at TKOFB;</li> <li>Implementation of C Easy system at TKOFB (Phase 1)</li> <li>Carry out GCO Probe test and SRT</li> </ol>
August 2023	<ol> <li>Operation of the Public Fill Reception Facilities at Tseung Kwan O Fill Bank (TKOFB);</li> <li>Operation of dewatering plant at TKOFB;</li> <li>Operation and Maintenance of crushing plants at TKOFB;</li> <li>Operation and Maintenance of Artificial Intelligent System for Crushing Plant at TKOFB;</li> <li>Operation of the Integrated Public Fill Reception at TKOFB;</li> <li>Operation and Maintenance of the Wash House at TKOFB;</li> <li>Operation and Maintenance of the Wash House at TKOFB;</li> <li>Operation and Maintenance of the Wash House at TKOFB;</li> <li>Operation and Maintenance a Digital Works Supervision System of Moving Plant at TKOFB;</li> <li>Operation and maintenance of Wheel Washing Bays and Facilities at TKOFB;</li> <li>Operation and maintenance of Wheel Washing Bays and Facilities at TKOFB;</li> <li>Maintenance of the Drainage Systems at TKOFB;</li> <li>Delivery of Public Fill to Taishan at TKOFB;</li> <li>Construction of Gabion Wall at TKOFB;</li> <li>Implementation of C Easy system at TKOFB (Phase 1)</li> <li>Carry out GCO Probe test and SRT</li> </ol>
September 2023	<ol> <li>Operation of the Public Fill Reception Facilities at Tseung Kwan O Fill Bank (TKOFB);</li> <li>Operation of dewatering plant at TKOFB;</li> <li>Operation and Maintenance of crushing plants at TKOFB;</li> <li>Operation and Maintenance of Artificial Intelligent System for Crushing Plant at TKOFB;</li> <li>Operation of the Integrated Public Fill Reception at TKOFB;</li> <li>Operation and Maintenance of the Wash House at TKOFB;</li> <li>Operation and Maintenance of the Wash House at TKOFB;</li> <li>Operation and Maintenance of the Wash House at TKOFB;</li> <li>Operation and Maintenance of the Wash House at TKOFB;</li> <li>Operation and Maintenance a Digital Works Supervision System of Moving Plant at TKOFB;</li> <li>Operation and maintenance of Wheel Washing Bays and Facilities at TKOFB;</li> <li>Operation and maintenance of Wheel Washing Bays and Facilities at TKOFB;</li> <li>Maintenance of the Drainage Systems at TKOFB;</li> <li>Delivery of Public Fill to Taishan at TKOFB;</li> <li>Implementation of C Easy system at TKOFB (Phase 1)</li> <li>Carry out GCO Probe test and SRT</li> <li>Delivery of Excavated Materials (T2 Materials) from TKOFB to Sha Chau Dumping Site at TKOFB</li> </ol>

Dump truck traffic and hauling activities at Barge Handling Area (BHA) were the major dust sources. Barge delivery of fill material was also undertaken in the reporting quarter. Besides the Fill Bank operation, the other dust sources near TKO Area 137 also included operation of C&DMSF and dumping activities at the SENT Landfill.

The desilting facilities were in proper operation to avoid silt discharge and the silt curtains were properly installed. There was no sediment plume observed during the monitoring events.



Contract No.: CV/2021/09 Handling of Surplus Public Fill (2022-2023) Tseung Kwan O Area 137 Fill Bank

The major noise sources during the reporting quarter were the dump truck traffic and construction activities near the site egress. Noise impact on the sensitive receivers was insignificant in the reporting quarter according to the results of noise monitoring and site inspections.

# Environmental Monitoring Works

#### Noise Monitoring

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

#### Air Monitoring

No exceedance of Action and Limit levels was recorded for 1-hr and 24-hr TSP monitoring in this quarter.

#### 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 quarter.

#### 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 quarter.



### 1.0 INTRODUCTION

China Harbour Engineering Co Ltd (CHEC) appointed Environmental Team (ET) of ETS-Testconsult Limited (ETL) to undertake the Environmental Monitoring and Audit (EM&A) for the "Contract No: CV/2021/09 –Handling of Surplus Public Fill (2022-2023) – Tseung Kwan O (TKO) Area 137 Fill Bank" (The Project).

In accordance with the Environmental Permit (No.: EP-134/2002/P) (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 month and forthcoming months;
- 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 September 2002 by MateriaLab. Action and Limit Levels were established for air and water quality parameters based on the baseline monitoring results.

This quarterly report documented the findings of EM&A Works conducted during the operation phase of Fill Bank at Tseung Kwan O Area 137 from July 2023 to September 2023.

#### 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 m<sup>3</sup> of public fill;
- Setting up two barging points: one at the Tseung Kwan O Basin (TKO Basin) and one at the Construction and Demolition Material Sorting Facility (C&DMSF) for transporting the stockpiled public fill by barges;
- 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

Tseung Kwan O Area 137 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 ASRs and 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 in this quarter 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 0.4	Contract Dataila	af 1/a	
Table 2.1	Contact Details	U nev	

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

#### 3.0 SUMMARY OF EM&A REQUIREMENTS

#### 3.1 EM&A Programme

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

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

The advice on implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 5 of the Report.

#### 3.2 Monitoring Stations and Parameters

The EM&A Manual designates several locations to monitor environmental impacts in terms of air quality, noise and water quality due to the Project. The description and detailed locations of monitoring stations for air quality, noise and marine water quality are shown in Figures 1, 2 and 3 and relevant sections of this Report.

#### 3.3 Monitoring Methodology and Calibration Details

All monitoring works were conducted and monitoring equipment was calibrated in according with the EM&A Manual.



### 3.4 Environmental Quality Performance Limits (Action/Limit Levels)

The environmental quality performance limits, i.e. Action/Limit Levels (AL Levels) were derived from the baseline monitoring results. If the measured environmental quality parameters exceed the AL Levels, the respective action plan will be implemented. The AL Levels for each monitoring parameter are given in Appendix E. The event action plan is given in Appendix F.

#### 3.5 Environmental Mitigation Measures

Relevant mitigation measures were recommended in the EM&A Manual for the Contractor to implement. A list of mitigation measures is given in Appendix H.

#### 4.0 MONITORING RESULTS

#### 4.1 Air Quality

In accordance with the EM&A Manual, 1-hr and 24-hr TSP air quality monitoring were conducted three times and once per six days correspondingly.

No exceedance of Action and Limit levels was recorded for 1-hr and 24-hr TSP monitoring in this quarter. The trend of air quality during the reporting quarter is present in Appendix B. Wind data included wind speed and wind direction were extracted from Tseung Kwan O Station of Hong Kong Observatory and presented in Appendix K.

Major dust sources in the Fill Bank were dump truck traffic and hauling activities at BHA.

Table 4.1 presents the number of exceedances recorded in each month of the reporting quarter. The number of monitoring event included regular monitoring events and additional ones.

Table 4.1 Summary of Number of Exceedances for 1 m and 24 m r of Momenting				
Monitoring	Level of	July 2023	August 2023	September 2023
Parameter	Exceedance			
24-hr TSP	No of monitoring	5	6	5
	events			
	Action Level	0	0	0
	Limit Level	0	0	0
1-hr TSP	No of monitoring	15	15	18
	events			
	Action Level	0	0	0
	Limit Level	0	0	0

#### Table 4.1 Summary of Number of Exceedances for 1-hr and 24-hr TSP Monitoring

Table 4.2 presents the 1-hr and 24-hr TSP averages in the baseline period and for each month in the reporting quarter. It was found that the 1-hr TSP averages at both stations in the reporting quarter were higher than the baseline levels but they were within the AL Levels. Besides, the 24-hr TSP average results were below the baseline level and within the AL Levels. As a result, the Contractor should provide more mitigation measures refer to the EM&A Manual to avoid dust generation.

Table 4.2 Comparison of Baseline and Various Period of Averaged 1-hr and 24-hr TSP Impact monitoring Results

Period	1-hr TSP (μg/m³)		24-hr TSP (µg/m³)	
renou	TKO-A1	TKO-A2a	TKO-A1	TKO-A2a
Baseline (29/08 – 13/09)	1	95	12	23
July 2023	249	252	145	147
August 2023	250	253	143	146
September 2023	247	250	146	148



#### 4.2 Noise

Noise monitoring was required to be conducted at least once per month. Only daytime noise was monitored in the reporting quarter.

All recorded noise levels complied with the AL Levels. The registered noise levels in the past three months are plotted in Appendices C. Table 4.3 presents the limit level and average impact noise monitoring results during the reporting quarter.

Table 4.9 Burnhary of impact Monitoring results of Noise Daytine Monitoring					
Monitoring	Limit Level	July 2023	August 2023	September 2023	
Location	Leq, dB(A)				
TKO-N1	75	64.8	65.1	64.9	

 Table 4.3
 Summary of Impact Monitoring results of Noise Daytime Monitoring

The major noise sources in the reporting quarter were dump truck traffic and construction activities near the site egress. The noise impact was insignificant as the Fill Bank was remote from sensitive receivers.

#### 4.3 Marine Water Quality

In accordance with the EM&A Manual, the marine water quality monitoring was conducted at the monitoring station (M4) and the control station (C1) in the reporting quarter.

Impact marine water quality monitoring was conducted three days per week. Measurements were taken at both mid-ebb and mid-flood tides at three depths (i.e. 1m below surface, mid depth and 1m above seabed). The AL Levels are included in Appendix E.

According to Environmental Permit (Permit no.:EP-134/2002/N) Condition 3.2, water quality survey/monitoring shall be conducted at control station C1a, monitoring stations M4a and M5 for the period from two weeks before commencement of operation of the additional 5 barging points to 4 weeks after cessation of their operation. 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.

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.

Table 4.4 presents the total number of marine water quality exceedances in the reporting quarter. The trend of marine water quality in the past three months is depicted in Appendix D1.

Parameter	Exceedance	July 2023	August 2023	September 2023
	Level			
Number of monitor	ing days	13	13	12
Dissolved	Action	0	0	0
Oxygen, DO (S&M)	Limit	0	0	0
Dissolved	Action	0	0	0
Oxygen, DO (B)	Limit	0	0	0
Turbidity	Action	0	0	0
Turbidity	Limit	0	0	0
Suspended	Action	0	0	0
Solids, SS	Limit	0	0	0
Total Number	Action	0	0	0
Exceedances	Limit	0	0	0

 Table 4.4
 Total Number of Marine Water Quality Exceedances in the Quarter



Table 4.5 presents the total number of marine water quality exceedances (3RS project) in the reporting quarter. The trend of marine water quality in the past three months is depicted in Appendix D2.

Parameter	Exceedance Level	July 2023	August 2023	September 2023
Number of monitor	ing days	13	13	12
Dissolved	Action	0	0	0
Oxygen, DO (S&M)	Limit	0	0	0
Dissolved	Action	0	0	0
Oxygen, DO (B)	Limit	0	0	0
Turbidity	Action	0	0	0
	Limit	0	0	0
Suspended	Action	0	0	0
Solids, SS	Limit	0	0	0
Total Number	Action	0	0	0
Exceedances	Limit	0	0	0

A comparison between the quarterly mean/median of SS and the 1.3 times of the baseline mean was made for each tide at each station. The statistical analysis results are given in Appendix I1 and it shows that a generally better marine quality was recorded in the reporting quarter in respect to 130% of the baseline mean. Monitoring stations with significant difference (p<0.05) is summarized in Table 4.6.

#### Table 4.6 Summary of Statistically Significant Results of SS

Monitoring Station	Significant difference?		
	Mid-ebb	Mid-flood	
C1	0	0	
M4	0	0	

A comparison between the quarterly mean/median of SS and the 1.3 times of the baseline mean was made for each tide at each station. The statistical analysis results (3RS project) are given in Appendix I2 and it shows that a generally better marine quality was recorded in the reporting quarter in respect to 130% of the baseline mean. Monitoring stations with significant difference (p<0.05) is summarized in Table 4.7.

Table 4.7	Summary of Statistically	Significant Results of SS	(3RS project)
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Monitoring Station	Significant difference?		
	Mid-ebb	Mid-flood	
C1a	X	X	
M4a	X	X	
M5	X	X	

## 5.0 INSPECTION RESULTS

#### 5.1 Implementation Status of Environmental Mitigation Measures

ET conducted weekly site inspections to monitor the Contractor's implementation of environmental mitigation measures. In this reporting period, thirteen weekly site inspections were conducted. After each site inspection, the Contractor was notified of ET's observations and recommendations. A corrective action plan detailing the environmental observations was prepared by ET and the Contractor then completed this plan to propose/report their remedial works.

Air quality was the major environmental issue in the reporting quarter. The Contractor generally implemented most of the environmental mitigation measures in the reporting quarter. Dump truck traffic was the major dust source in the Fill Bank. Generally, the Contractor implemented adequate



dust mitigation measures in the reporting quarter including dampening of haul roads, water spraying on the truckloads, operation of automatic wheel washing facilities and mist spraying systems, dampening of fill material prior to handling or stockpiling, etc.

Dump truck traffic and construction activities near the site egress were the major noise sources. As the Fill Bank was remote from the nearby NSRs, the noise impact was minimal. The powered mechanical equipment were generally operated and maintained properly.

Regarding the observations about the damaged silt curtain, the Contractor was reminded to maintain the silt curtain properly to serve the function of refuse containment boom to confine floating refuse. Furthermore, Dust emission was found upward trend, the Contractor was reminded to increase the watering to avoid dust emission.

Although there were a few observations regarding dust control, such as fugitive dust emission and accumulation of fill materials, the Contractor rectified most of these problems. Besides, the Contractor should increase the site watering in order to minimize the fugitive dust emissions.

The germination rate on the panel was satisfactory in this reporting quarter. The Contractor was reminded to maintain the panel properly.

#### 5.2 Status of Environmental Licensing and Permitting

Description	Permit No.	Valid	Month	Section
		From	То	
Environmental Permit	EP- 134/2002/P	14/02/23	01/01/27	<ul> <li>Site clearance</li> <li>Construction of a temporary storm water system</li> <li>Stockpiling of 6 million m3 of public fill</li> <li>Setting up two barging points for transporting the stockpiled public fill by barges</li> <li>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</li> <li>Construction of operation of a construction and Demolition Material Sorting Facility (C&amp;DMSF)</li> <li>Setting up a Construction and Demolition Material Crushing Facility at the TKO Basin</li> <li>Remove the temporary fill bank</li> </ul>
Chemical Waste Producer	5919-839- C3750-04	19/04/17		Spent battery cell containing heavy metals and spent lubricating oil
Effluent Discharge License	WT000411 69-2022	06/06/22	30/06/27	Effluent, Surface Run-off, and all other wastewater discharges from screen and sedimentation tank
Marine Dumping Permit	EP/MD/24- 028	01/09/23	31/12/23	Approval for dumping 499,999 tons (approximately equal to 277,777 cu.m. bulked quantity) of Public Fill (Reclamation Materials) from Tseung Kwan O Area 137 Fill Bank and Tuen Mun Area 38 Fill Bank to designated dumping area at Guanghaiwan of Taishan

The status of licences and permits is summarized in Table 5.1. Table 5.1 Summary of environmental licensing and permit status



Billing Account for Waste Disposal	7042821	22/05/17	End of Contract	
Notification Pursuant to Section 3(1) of the Air Pollution	475209	12/04/17	End of Contract	
Control (Construction Dust)				

#### 5.3 Advice on Solids 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 5.2 summarizes data on offsite waste disposal in the quarter.

Table 5.2	Estimated Offsite Waste Disposal in the Reporting Quarter
	Estimated Onsite Waste Disposal in the Reporting Quarter

Waste Type	July 2023	August 2023	September 2023		
Public Fill ('000m³)	0	0	0		
C&D Waste (general refuse) ('000kg)	64.40	65.66	143.89		
Chemical Waste (kg/L)	0 (L)	0 (L)	0 (L)		

The site toilet and shower room and several chemical toilets were in use throughout the reporting quarter. Discharge from the site toilet and shower room was made to the additional drainage DP4 after passing through the sewage treatment system. A licensed collector also regularly collected waste from the chemical toilets.

#### 6.0 NON-COMPLIANCE OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS

#### 6.1 Summary of Non-compliance

In this reporting quarter, no exceedance of Action and limit levels on marine water quality was recorded.

No exceedances on 1-hour and 24-hour TSP monitoring results were recorded in this quarter.

Besides, no day-time noise level measured at the monitoring station exceeded the Action and Limit Level in this quarter.

#### 6.2 Review of the Reasons for and the Implications of Non-compliance

Since there was no exceedance recorded in this quarter, the review of the reasons for the noncompliance was not required.

#### 6.3 Summary of Actions Taken

Since there was no exceedance recorded in this quarter, no further action was not required to be taken.

#### 6.4 Summary of Environmental Complaint, Notifications of Summons and Successful Prosecutions Handling

No complaint, notification of summon and successful prosecution was received in this quarter.

A summary of environmental complaints and prosecutions was given in Table 6.1.



Table 6.1	Summary of Environmental Complaints and Prosecutions				
	Period	Complaints logged	Summon served	Successful Prosecution	
	July 2023	0	0	0	
	August 2023	0	0	0	
	September 2023	0	0	0	
	Cumulative	18	0	0	

## 7.0 COMMENTS, CONCLUSIONS AND RECOMMENDATION

In this quarter, major activity in the Fill Bank was the import and dumping of fill material. Air quality was the major environmental issue in the Fill Bank. Generally, the Contractor implemented most of the mitigation measures to minimize the dust impact.

No exceedance of Action and Limit levels was recorded for 1-hour and 24-hour TSP monitoring in this quarter.

No exceedance of Action and Limit Level of noise was recorded in this reporting quarter.

No exceedance of Action and limit level on marine water quality was recorded in this quarter

No complaint, notification of summon and successful prosecution was received in this quarter.

According to the ET weekly site inspection and IEC site audits carried out in this quarter, it was indicated that site practices of the Contractor were generally undertaken in an environmentally acceptable manner and the overall site environmental performance was up to standard. 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.

According to the environmental site inspections performed in this quarter, the following recommendations were provided:

#### Air Quality

- Ensure the frequency of water spraying on haul roads, unloading areas and stockpiles to be sufficient to suppress the dust sources;
- Provide proper maintenance for the powered mechanical equipment and barges to avoid emission of dark smoke;
- Provide water spraying onto the truckloads during inspection of fill material;
- 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 boswer;
- 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, DP3 & DP4 regularly;
- Operate and maintain the silt curtains regularly;
- Operate the cleaning vessel within the TKO Basin regularly;
- Provide proper treatment for the oil discharge from the area near air monitoring station TKO-A1;
- 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.

#### 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, DP3 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.

#### Landscape and Visual

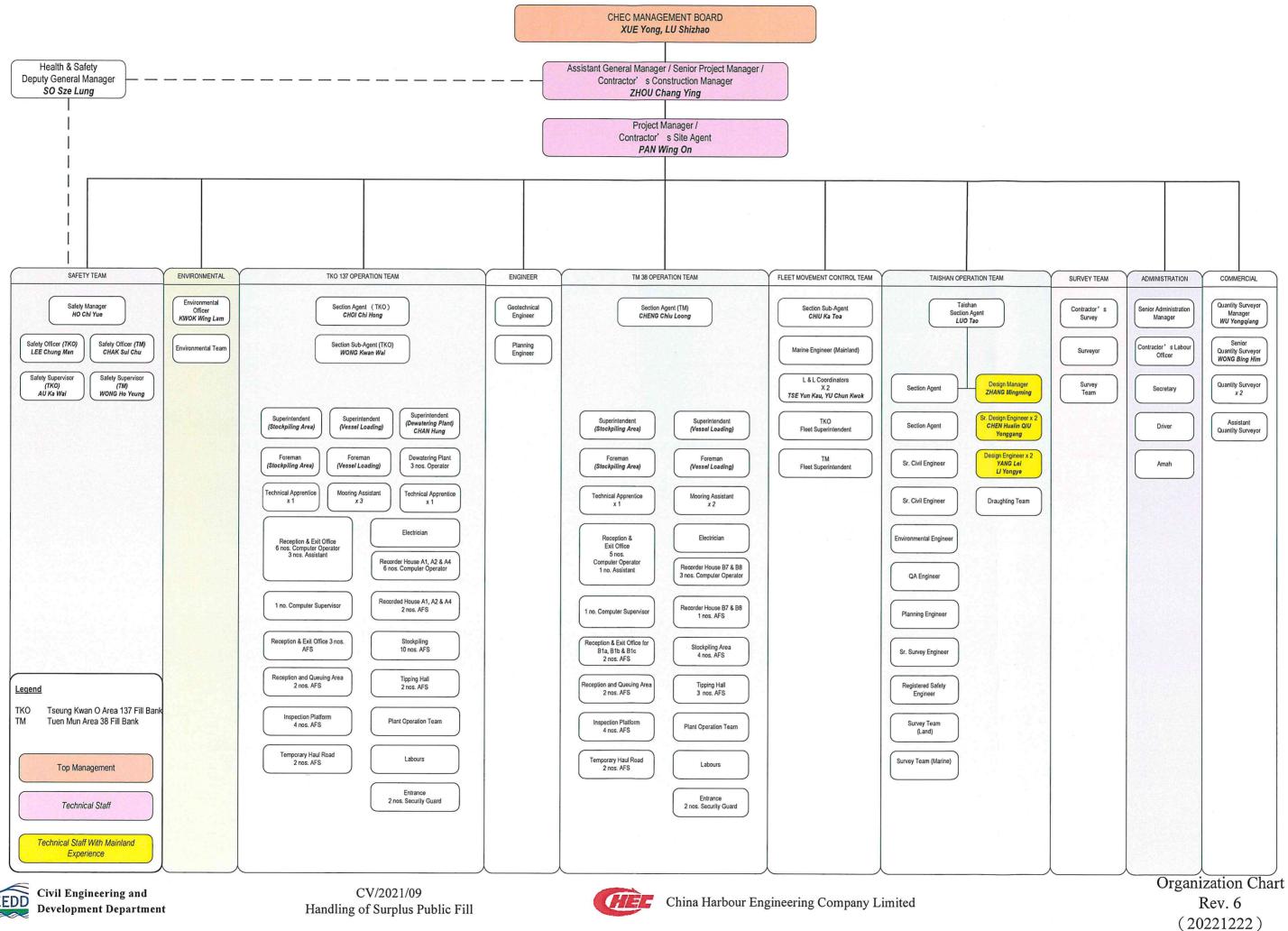
- Provide hydroseeding on the exposed slopes, on which the final profile has been formed;
- Erect all the site hoarding/chaining fences in accordance with agreed design at proper location;
- Maintain the hydroseeding slopes in accordance with the Landscape Plan.

- END OF REPORT -



Α

**Organization Chart** 





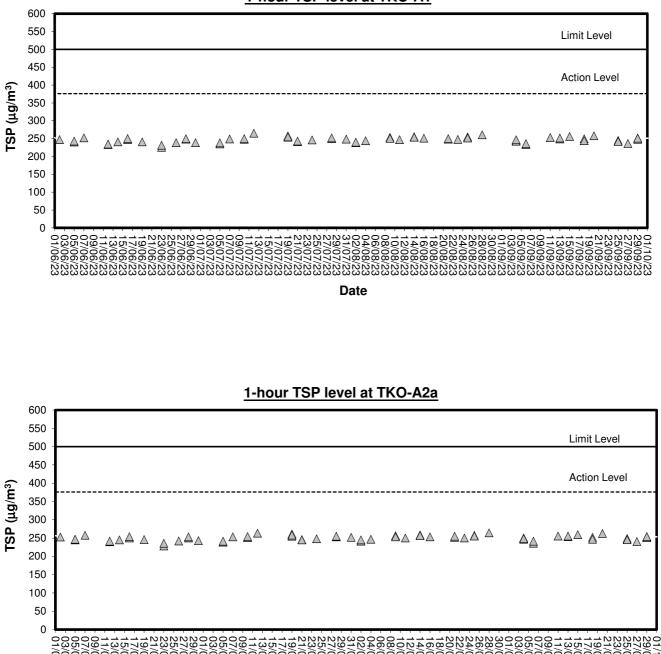




В

**Graphical Plots of Air Quality Monitoring Data** 





#### 1-hour TSP level at TKO-A1

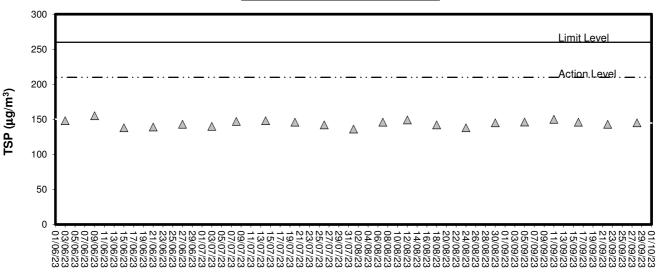
Date

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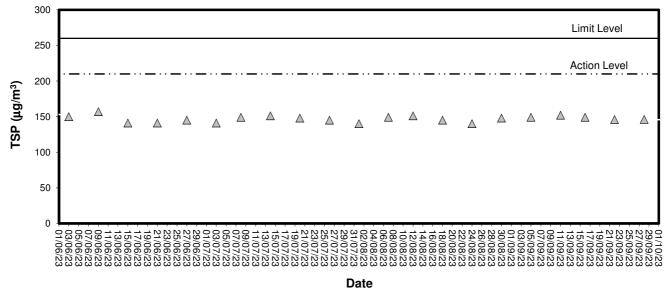




# 24-hour TSP level at TKO-A1

Date





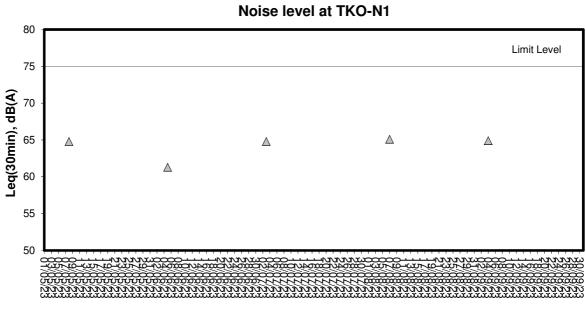


С

**Graphical Plots of Noise Monitoring Data** 



# Noise Monitoring (Day-time)



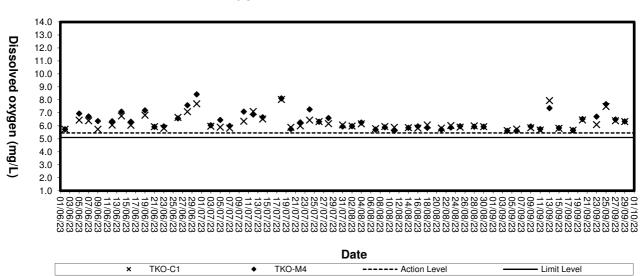
Date



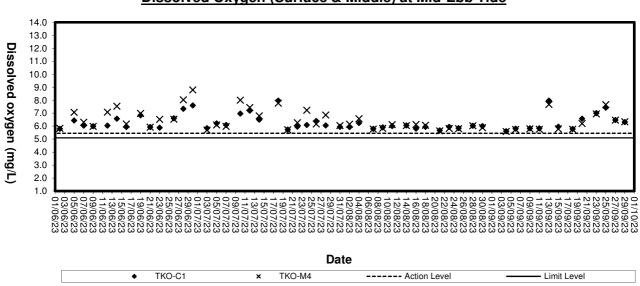
D1

Graphical Plots of Impact Marine Water Quality Monitoring Data



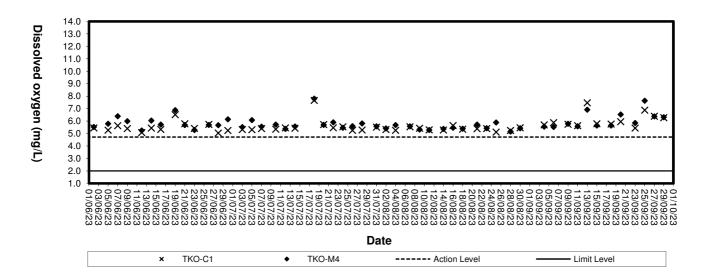


Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide



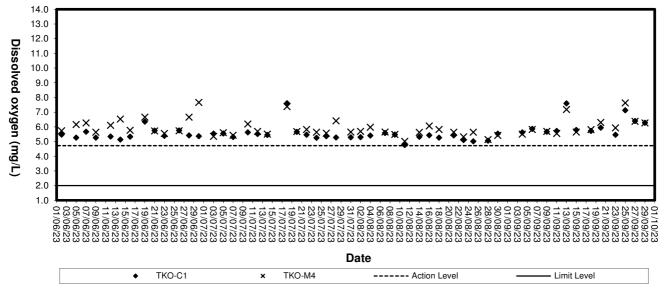
Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide



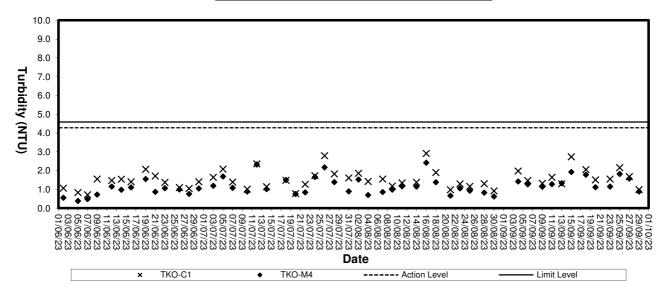


# Dissolved Oxygen (Bottom) at Mid-Flood Tide



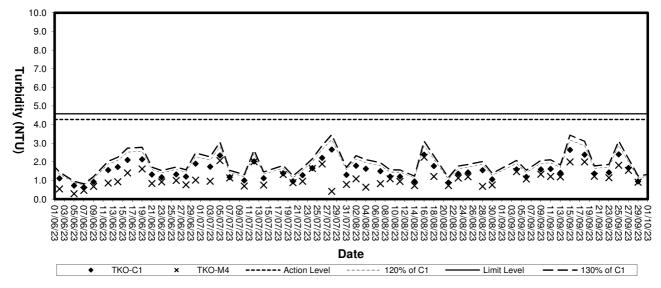




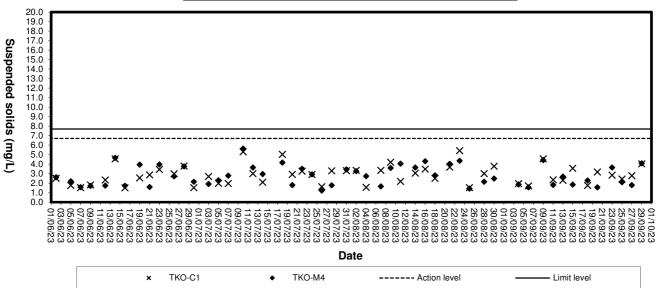


#### Turbidity (Depth-average) at Mid-Flood Tide



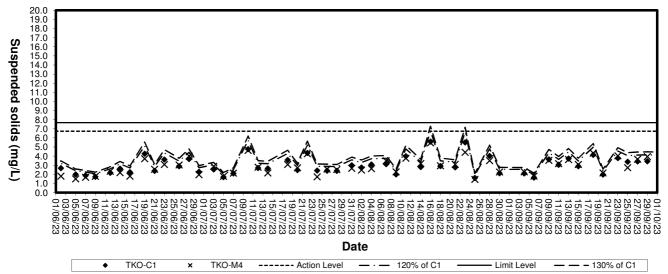






Suspended solids (Depth-average) at Mid-Flood Tide

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

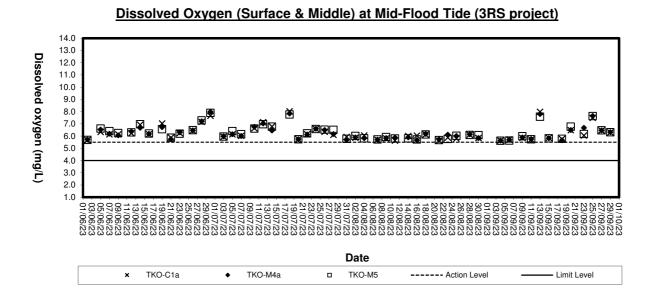


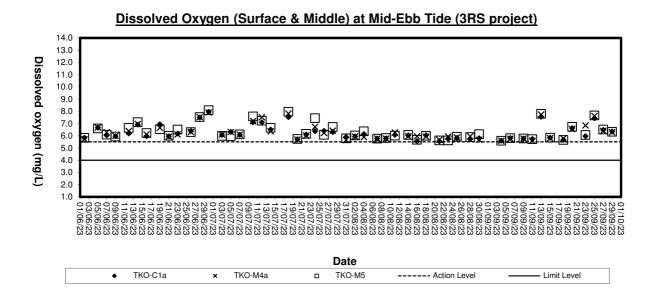


D2

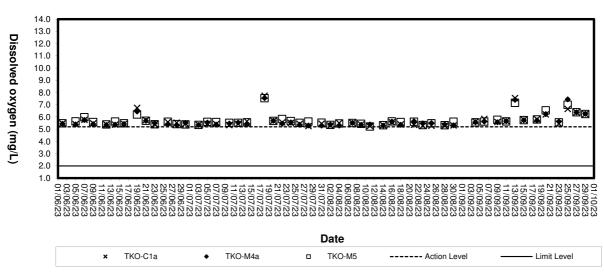
Graphical Plots of Impact Marine Water Quality Monitoring Data (3RS project)



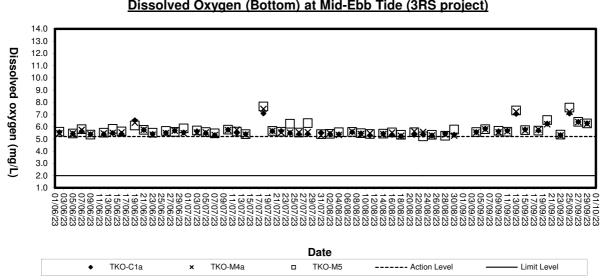






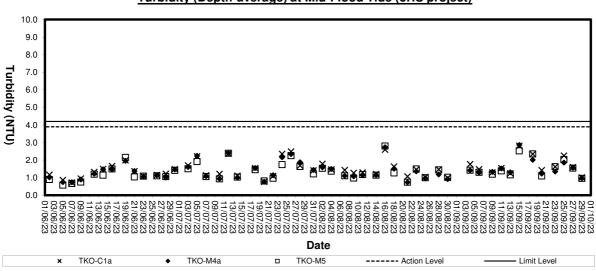


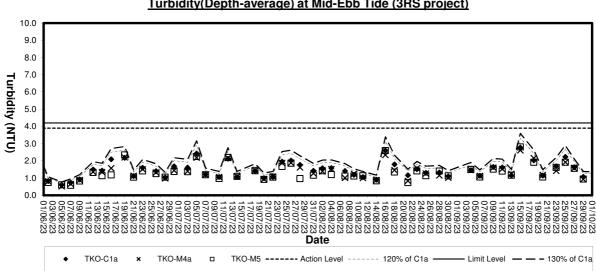
Dissolved Oxygen (Bottom) at Mid-Flood Tide (3RS project)



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



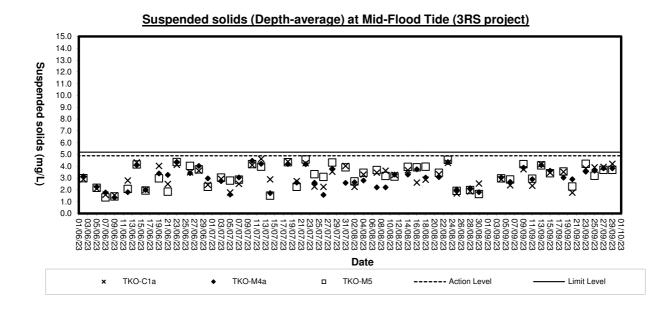


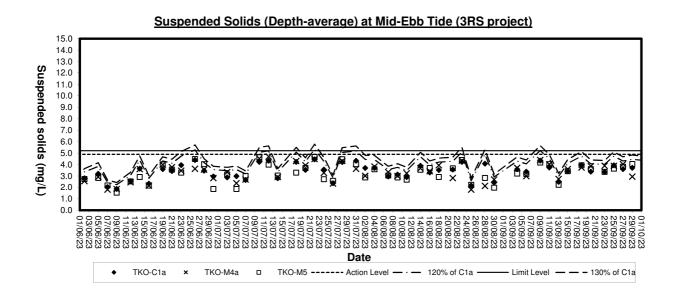


Turbidity(Depth-average) at Mid-Ebb Tide (3RS project)

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









Ε

**Environmental Quality Performance (Action / Limit Levels)** 



Action and Limit Levels for Air Quality

Action and Limit Levels for 1-Hour TSP

Location	Action Level, µg/m <sup>3</sup>	Limit Level, µg/m <sup>3</sup>	
A1	376	500	
A2	1 210		

Action and Limit Levels for 24-Hour TSP

Location	Action Level, µg/m <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
A1	210	
A2	7 210	260

Action and Limit Levels for Noise

Time Period	Action	Limit
0900-2100 hrs on all days	When one documented complaint is received	75*dB(A)

Action and Limit Levels for Water Quality

Parameters	Action	Limit
Dissolved oxygen, DO mg/L (Surface, Middle & Bottom)	Surface & Middle DO < 5.45 (5%-ile of baseline data) Bottom DO < 4.72 (5%-ile of baseline data)	Surface & Middle DO < 5.10 (1%-lle of baseline data) <u>Bottom</u> 2 mg/L
Suspended solids, SS mg/L (Depth-averaged)	SS > 6,74 (95%-like of baseline data or SS > 120% of upstream control stations SS at the same tide of the same day)	88 > 7.67 (99%-ile of baseline data or SS > 130% of upstream control stations SS at the same tide of the same day)
Turbidity, Tby NTU (Depth-averaged)	Tby > 4.28 (95%-ite of baseline data or Tby > 120% of upstream control stations Tby at the same tide of the same day)	Tby > 4.58 (99%-ile of baseline data or Tby > 130% of upstream control stations Tby at the same tide of the same day)

Action and Limit Levels for Water Quality (3RS project) +

Parameter₽	Action Level +	Limit Level +
DO (mg/L)₽	Surface & Middle+ <5.5 mg/L+ Bottom+ <5.2 mg/L+	<u>Surface &amp; Middle</u> + <4.00 mg/L (1%-ile of baseline data) + <u>Bottom</u> + <2.00 mg/L+
SS (mg/L) +	>4.9 mg/L or >120% of the upstream	>5.2 mg/L or >130% of the upstream
(Depth-	control station's SS at the same tide on	control station's SS at the same tide on
averaged)+	the same day.	the same day. <sup>2</sup>
Turbidity	>3.9NTU or >120% of the upstream	>4.2 NTU or >130% of the upstream
(NTU) (Depth-	control station's turbidity at the same	control station's turbidity at the same tide
averaged)₽	tide on the same day.	on the same day?



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**Event-Action Plans** 

	Contractor			<ol> <li>Submit proposals for remediat actions to IC(E) within 3 working days of notification</li> <li>Implement the agreed proposals</li> <li>Amend proposal if appropriate</li> </ol>	<ol> <li>Take Infinedate action to avoid further exceedance</li> <li>Submit proposals for remedial actions to IC(E) within 3 working days of notification</li> <li>Implement the agreed proposals</li> <li>Amend proposal If appropriate.</li> </ol>
ITY EXCEEDANCE	ER		1. Notify Contractor	<ol> <li>Confirm receipt of notification of failure in writing</li> <li>Notify the Contractor</li> <li>Ensure remedial measures property implemented</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing</li> <li>Notify the Contractor</li> <li>Ensure remedial measures properly implemented</li> </ol>
EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE ACTION			<ol> <li>Check monitoring data submitted by the ET</li> <li>Check contractor's working method</li> </ol>	<ol> <li>Check monitoring data submitted by the ET Leader</li> <li>Check the Contractor's working method</li> <li>Check the Contractor's working method</li> <li>Discuss with ET and Contractor on possible remedial measures</li> <li>Advise the ER on the effectiveness of the proposed remedial measures</li> <li>Supervise implementation of remedial measures</li> </ol>	<ol> <li>Check monitoring data submitted by the ET Leader</li> <li>Check Contractor's working method</li> <li>Discuss with ET and Contractor on possible remedial measures</li> <li>Advise the ER on the effectiveness of the proposed remedial measures</li> <li>Supervise implementation of remedial measures</li> </ol>
Ē		EI Leader	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures Inform ER, IC(E) and Contractor Repeat measurement to confirm finding 4. Increase monitoring frequency to daily</li> </ol>	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures</li> <li>Inform IC(E) and Contractor</li> <li>Repeat measurements to confirm finding</li> <li>Increase monitoring frequency to daily for remedial actions</li> <li>Discuss with IC(E) and Contractor on remedial actions</li> <li>If exceedance continues, arrange meeting with IC(E) and ER.</li> <li>If exceedance stops, cease additional monitoring</li> </ol>	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures</li> <li>Inform ER, Contractor and EPD</li> <li>Repeat measurement to confirm finding</li> <li>Increase monitoring frequency to daily</li> <li>Assess the effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results</li> </ol>
EVENT			1. Exceedance for one sample	2. Exceedance for two or more consecutive samples	1. Exceedance for one sample

	- 1	Ţ	
		Contractor	<ol> <li>Take immediate action to avoid further exceedances</li> <li>Submit proposals for remedial actions to IC(E) within 3 working days of notification</li> <li>Implement the agreed proposals</li> <li>Resubmit proposals if problem still not under control</li> <li>Stop the relevant activity of works as determined by the ER until the exceedance is abated</li> </ol>
TY EXCEEDANCE		ER	<ol> <li>Confirm receipt of notification of failure in writing</li> <li>Notify Contractor</li> <li>In consultation with the IC(E), agree with the Contractor on the remedial measures to be implemented</li> <li>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</li> </ol>
ALI			·····
EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE	ACTION	IC(E)	<ol> <li>Discuss amongst ER, ET and Contractor on the potential remedial actions</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly</li> <li>Supervise the implementation of remedial measures</li> </ol>
E		ET Leader	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures</li> <li>Notify IC(E), ER, EPD and Contractor</li> <li>Repeat measurement to confirm finding</li> <li>Increase monitoring frequency to daily</li> <li>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</li> <li>Assess effectiveness of Contractor's remediai actions and keep IC(E), EPD and ER informed of the results</li> <li>If exceedance stops, cease additional monitoring</li> </ol>
		<u> </u>	
EVENT			2. Exceedance for two or more consecutive samples

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

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<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	G	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. Consecutive writing processedance         3. Confin Tassessment           Consecutive         S. Check all plant and secretance         Writing 24 hours of the proposed memores are sampling days         3. Consecutive measures         3. Consecutive writing processedance           S. Consecutive         S. Check and plant and secretance         Writing 24 hours of the mitodom measures         3. Consecutive mitodom measures         3. Consecutive mitodom measures           S. Consecutive         S. Consecutive mitodom measures         S. Consecutive mitodom measures         3. Consecutive mitodom measures         3. Consecutive mitodom measures           S. Consecutive mitodom measures         S. Consecutive mitodom measures         3. Consecutive mitodom measures         3. Consecutive m	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. Constactor sonstruction works         4.           6. Investigation of the contractor if an adverse struction works         5. Assess the effectivenees of the investigati					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
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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 writin 4 working days of the mitigation measures of the mitigation measures for the analysed problem if related to the exceedance and advise contractor if measures to IEC and ER writin 3 working days of the mitigation measures for the analysed problem if related to the exceedance is due to writin 4 working days of the mitigation measures are implemented.       3.         6.       Report the results of the mitigation measures interactor if and advise contractor if and advise contractor if and propose mitigation and advise contractor if and propose mitigation measures within 4 working day of exceedance.       4.       5.         7.       Discuss mitigation measures are into an advise contractor if and advise contractor if and propose mitigation measures within 4 working advise contractor if and propose mitigation measures are implemented.       5.         9.       Prepare measures the effectiveness of anothere measures are implemented.       5. </td <td>being</td> <td>~</td> <td>_</td> <td></td> <td>within 24 hours of</td> <td></td> <td>governmental agencies in</td> <td></td> <td>submitted by EI</td>	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 writing attor measures of and propose miligation measures of and propose miligation measures and advise contractor within 3 working days of the investigation of an works works and advise contractor within 3 working days of the miligation measures of and propension of an works are implemented at a measures within a working days of the miligation measures of and propension of an writing attor measures of and propension of an writing attor measures within a working days of the miligation measures of and propension of an works are implemented.       3. Check all plant and evectod and a methods;       4. Ensure remedial measures of a methods;       4. Ensure remedial measures of a measures of and propension of an econstruction works are propenty implemented at a measures of the miligation measures of and propense within an exceedance       4. Ensure remedial measures of and and of a methods;       5. Assess the effectiveness of and propense at analysed problem if related to the miligation measures of and propense at an exceedance       5. Assess the effectiveness of and propense at an exceedance and propense at an exceedance at an exceedance at a working	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 brow works3. Check all plant and exceedance brow works3. Check all plant and mitigation measures of the mitigation measures brow works3. Check and ER and propose brow with 4 working days of the mitigation measures brow works3. Check and ER brow with 4 working days of the mitigation measures brow works3. Check and ER brow works3. Check and ER brow works4. Ensure remedial measures the mitigation me	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 the investigation of exceedance and advise contractor if exceedance ithin 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 but in 2 working days of the miligation measures of the miligation measures are inplemented and propose mitigation and propose mitigation and propose mitigation and propose mitigation and propose mitigation and propose mitigation an exceedance but it for the construction within the miligation measures within an exceedance but it for the scale4. Contractor on the proposed and propose the miligation measures the miligation measures the miligation measures4.5. Submit the results interactor within an exceedance and advise contractor within an exceedance5. Assess the effectiveness of the miligation measures the miligation measures5.6. Discuss militication of and propose militication of and propose militication of an an exceedance an exceedance <td>sampling days</td> <td></td> <td>identification</td> <td></td> <td>equipment;</td> <td>~i</td> <td>Discuss with IEC, ET and</td> <td>က်</td> <td>Discuss with ET, ER and</td>	sampling days		identification		equipment;	~i	Discuss with IEC, ET and	က်	Discuss with ET, ER and
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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 and advise contractor within 4 working days of the mitigation measures within 2 monitoring frequency to daily, Prepare to increase the monitoring frequency to daily,investigation to IEC and ER analysed problem if related to the construction worksCarry out investigation and advise contractor sceedanceG. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER worksA. Ensure remedial measures the construction worksS. Assess the effectiveness of measures with IEC and Contractor within an exceedance Ensure mitigation measure the mitigation measure teasonable time scale5.			Contractor's working methods;	പ	Submit the results of the	က်	Require contractor to propose	4	Review contractor's
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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 an exceedance Ensure mitigation measures the mitigation measure4. Ensure remedial measures are properly implemented the mitigation measures the mitigation measure the mitigation measure the mitigation measurewithin 3Assess the effectiveness of the mitigation measures the mitigation measure the mitigation measure an exceedance monitoring frequency to daily;4. Ensure remedial measures are properly implemented the mitigation measures the mitigation measure the mitigation measure			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 an exceedance Ensure mitigation measures an exceedance Ensure mitigation measures to increase the monitoring frequency to daily;and propose mitigation tand propose mitigation the mitigation measures the mitigation measures the mitigation measures tidentification of an exceedance Ensure mitigation measures tidentification of an tidentification of an exceedance Ensure mitigation measures tidentification of an tidentification of an exceedance Ensure mitigation measures an exceedance Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily;5. Assess the effectiveness of the mitigation measures tidentification of an exceedance Ensure mitigation measures an exceedance5. Assess the effectiveness of the mitigation measures tidentification of an tidentification of an 5. Assess the effectiveness of tidentification measures tidentification of an tidentification of an <br< td=""><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></br<>			identification of exceedance	Ö	Discuss with ET, IEC and ER		are properly implemented		the ER accordingly
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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 Prepare to increase the monitoring frequency to daily;with 14 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
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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				
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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				
an exceedance Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; . Repeat measurement on next day of exceedance.			4 working of identification of		mitigation measures within				
			an exceedance		reasonable time scale				
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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	}	-	<del>~~</del>	- 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	•	<ol><li>Rectify unacceptable practice;</li></ol>	<ol><li>Check all plant and</li></ol>	equipment;	<ol><li>Consider changes of working</li></ol>	_	<ol><li>Submit the results of the</li></ol>	investigation to IEC and ER	within 3 working days of the	identification of an	exceedance	<ol><li>Discuss with ET, IEC and ER</li></ol>	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		_								-	-																				
EVENI		ET Leader	1. Repeat in-situ measurement	-	<ol><li>Identify source(s) of impact;</li></ol>	<ol><li>Notify Contractor in writing</li></ol>	within 24 hours of	identification of the	exceedance	<ol><li>Check monitoring data, all</li></ol>	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;	<ol><li>Increase the monitoring</li></ol>	frequency to daily until no	exceedance of Limit Level.
			F			<del>ر</del> ی				4																					
Event			Limit level	being	exceeded by	one sampling	dav .	<b>`</b>		<del>.</del> .					·		-														

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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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Work Programme

ID		Task Name	Baseline Start	Baseline Finish	Duration	Predeo	risk allowa	2	-		Ju	'23						A	ug '23		
	<b>6</b>	Contract duration of Contract CV/2021/9	Sat 1/1/22	Sun 31/12/23	730 dava			26	17/23	3	10	1	7	24		31		7	14	2	1
		Contract date , Date of the Letter of Acceptance	1	Mon 20/12/21	-				11125					are the major			and the second second				EMMEDIE:
2		(assumed)	WIOIT 20/12/21	1011 20/12/21	0 uays																
3	<u> </u>	Starting Date of the Works	Sat 1/1/22	Sat 1/1/22	0 days																
4		Starting Date of Section 1 of the Works	Sat 1/1/22	Sat 1/1/22	0 days																
5	HE	Starting Date of Section 2 of the Works	Sat 1/1/22	Sat 1/1/22	0 days																
6	11	Starting Date of Section 3 of the Works	Sat 1/1/22	Sat 1/1/22	0 days																
7	11 (Å	Date for Completion of the Works	Sun 31/12/23	Sun 31/12/23	0 days																
8	H	Completion Date of Section 1 of the Works	Sun 31/12/23	Sun 31/12/23	0 days																
9	HE	Completion Date of Section 2 of the Works	Sun 31/12/23	Sun 31/12/23	0 days																
10	HE	Completion Date of Section 3 of the Works	Sun 31/12/23	Sun 31/12/23	0 days																
11	4	Planned completion dates	Sun 31/12/23	Sun 31/12/23	0 days																
12	HE	Planned competion date of Section 1	Sun 31/12/23	Sun 31/12/23	0 days																
13	11	Planned competion date of Section 2	Sun 31/12/23	Sun 31/12/23	0 days																
14	HE	Planned competion date of Section 3	Sun 31/12/23	Sun 31/12/23	0 days																
15	41	Access Date of the Site	Sat 1/1/22	Sat 1/1/22	0 days																
16		Portion A2, A3a, A3b, A3c, A4, A5a, A5b, A7c2, A10 and A11	Sat 1/1/22	Sat 1/1/22	0 days																
17	12	(within 60 days after starting date) Portion B1, B3, B6a, B6b and B7 (within 60 days after starting date)	Sat 1/1/22	Sat 1/1/22	0 days												•				
18	12	Portion A1. A7a, A7b, A7c1, A9, A9a and B6c (7 day's advance notice after starting date)	Sat 1/1/22	Sat 1/1/22	0 days																
19	V	Portion B6c (7 day's advance notice after starting date)	Sat 1/1/22	Sat 1/1/22	0 days																
20	H	Hand back of the Site	Sun 31/12/23	Sun 31/12/23	0 days																
21	-int	Portion A2, A3a, A3b, A3c, A4, A5a, A7c2, A10 and A11 (or at an earlier date notified by the Project Manager with 30 days' advance notice)	Sun 31/12/23	Sun 31/12/23	0 days																
22	- C-	Portion A1, A7b, A7c1, A9 and A9a (or at an earlier date as notified by the Project Manager with 30 days' advance notice)	Sun 31/12/23	Sun 31/12/23	0 days																
		Portion B1, B3, B6a, B6b and B7 (or at an earlier date as notified by the Project Manager with 30 days' advance notice)		Sun 31/12/23	-																
24		Portion B6c (or at an earlier date as notified by the Project Manager with 30 days' advance notice)	Sun 31/12/23	Sun 31/12/23	0 days																
25		Section 1 of the Works - Tseung Kwan O Area 137 Fill Bank	Sat 1/1/22	Sun 31/12/23	730 days	4SS															
	<b>v</b>	Taking over the existing facilities at the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site	Sat 1/1/22	Sat 1/1/22	1 day	4SS	0														
		Operation of the the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site	Sat 1/1/22	Sun 31/12/23			0					- upix					(K)(大)(2)			e-debier.	
	<u>.</u> 2	Operation and maintenance of the surveillance system within Portion A of the Site	Sat 1/1/22	Sun 31/12/23			0						90 - 20 a					Callen Johns			
29	<mark>.</mark> 4	Operation and maintenance of the existing tipping halls at the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site	Sat 1/1/22	Sun 31/12/23	730 days	26SS	0														
30		Provision, operation and maintenance of the Crushing Plant at the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site	Sat 1/1/22	Sun 31/12/23	730 days	26SS	0								and a second				. A Solar		
31	2	Operation and maintenance of the dewatering plant at the Tseung Kwan O Area 137 Fill Bank within portion A of the Slte.	Sat 1/1/22	Sun 31/12/23	730 days	26SS	0		- Marca 1		din dinada an			and the second se							
32	<mark>.</mark> 4	Collection and delivery of Public Fill by barges from the Chai Wan and Mui Wo Barging Points to the TKO Area 137 Fill Bank within Portion A of the Site	Sat 1/1/22	Sun 31/12/23	730 days	26SS	0		-			er Leve									
		Task		Party of the	tan tan anna	Evtor	rnal Tasl	rs.				D.	Iratio	on-only	1		a cost.			Extern	al Ta
				the same of which an					1												
Project: 3	month	rolling Programme July23- Sept23 CV/2021/09					rnal Mile		<	>		M	anua	l Summ	nary F	Rollup	<b>•</b>			Extern	al M
Date: [22			ne	•		Inact	ive Mile	stone				M	anua	l Summ	nary		٠			Progre	ess
		Summa	ry		~	Inact	ive Sum	mary				St	art-o	nly			10.00 per 20.			Deadl	ne
			Summary		C		ual Task	-		>				only							

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ID		Task Name		Baseline Start	Baseline Finish	Duratior	Prede	cetime risk allowa				Jul '	22		2 . 1			A 122	)	
	0			-				anowa	26	1	3	10	25 17	24	.  '	31	7	Aug '23	21	
33		Construction of Gabion wall		NA	NA	681 days			1/	17/23										-
34	~	Preparing and submitting a method statemer approval	ent for	Sat 19/2/22	Fri 4/3/22	12 days		2												
35	~	Preparing and submitting the material submit	ission	Sat 5/3/22	Fri 18/3/22	12 days		2	<b>.</b>											
36	$\checkmark$	Obtaining approval from the Project Manage	er	Sat 19/3/22	Fri 1/4/22	1 day	35,34	2												
37		Construction of Gabion wall		Sat 2/4/22	Sun 31/12/23	546 days		7												-
38	$\checkmark$	Re-surfacing of the access road at A11 TKO		Mon 21/3/22		33 days			hek ĝe	1										
39	~	Submission of method statement of re-surfa access road	acing the	Mon 21/3/22	Fri 25/3/22	5 days		0												
40	~	Obtaining approval from the Project Manage		Thu 7/4/22	Thu 7/4/22	1 day	39	2		1.4										
41	~	Milling off the existing pavement, overlaying pavement on the access road		Fri 15/4/22	Fri 22/4/22	8 days	40	1												
42	~	PMI no.3 Trial Production of blanket layer ma recycled from public fill	aterial	Tue 28/6/22	Wed 24/8/22	156 days														
43	$\checkmark$	Submission of method statement		Tue 28/6/22	Fri 29/7/22	32 days		1		1.1										
44	$\checkmark$	Obtaining approval from the Project Manage		Sat 30/7/22	Sat 20/8/22	1 day		2		t i se										
45	$\checkmark$	Manufacturing and delivery of screening mad	chine	Fri 22/7/22	Thu 11/8/22	21 days		2												
46	<b>V</b>	Trial Production of blanket layer material		Mon 22/8/22	Wed 24/8/22	45 days		1												
47		PMI no.24 Implementation of C easy system	at TKOFB	Mon 22/8/22	Tue 27/12/22	94 days														
48	~	Submission of method statement for approva	al	Mon 22/8/22	Sun 28/8/22	1 day														
49	~	Obtaining approval from the Project Manage	er	Mon 29/8/22	Sun 18/9/22	1 day	48	2												
50	~	Ordering and delivery of C easy system hard site	dware to	Mon 19/9/22	Wed 2/11/22	8 days	49	3												
51	~	Installation of the C Easy system		Thu 3/11/22	Wed 16/11/22	19 days	50	2	-	28										
52	~	Trail run of the system		Thu 17/11/22	Wed 30/11/22	9 days	51	2												
53		Parallel run with the old system		Thu 1/12/22	Mon 26/12/22	,	52	2												
54		Operation with C easy system individually			Tue 27/12/22		53	0												
55		Handing over the facilities at the Tseung Kwan ( Fill Bank within Portion A of the Site to the Emp	oloyer				8SS	0												
56		Planned Completion Date (Section 1) Section 2 of the Works - Tuen Mun Area 38 Fill I			Sun 31/12/23					i, in pr										
57		Taking over the existing facilities at the Tuen Mu		Sat 1/1/22	Sun 31/12/23 Sat 1/1/22			0										an a fair an an Anna a		
58 59	<ul> <li>✓</li> <li>Image: A = 1</li> <li>Image: A = 1<td>Fill Bank within Portion B of the Site Operation of the Tuen Mun Area 38 Fill Bank wi</td><td></td><td></td><td>Sun 31/12/23</td><td></td><td>5SS</td><td>0</td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td>-</td><td></td><td></td><td></td><td></td></li></ul>	Fill Bank within Portion B of the Site Operation of the Tuen Mun Area 38 Fill Bank wi			Sun 31/12/23		5SS	0						1		-				
		B of the Site														1999 - Antonio Sectore 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 199 1				
	2	Operation and maintenance of the surveillance s within Portion B of the Site	-	Sat 1/1/22	Sun 31/12/23			0				la fille a star			ter sinere					
	-	Operation and maintenance of the existing tippir the Tuen Mun Area 38 Fill Bank within Portion B	3 of the Site		Sun 31/12/23			0		म्बिल हे <del>ल</del> ा						And States				
62	<u>.</u>	Operation and Maintenance of the Crushing Pla Tuen Mun Area 38 Fill Bank within Portion B of t	int at the the Site	Sat 1/1/22	Sun 31/12/23	730 days	5SS	0		ALKONE A					inal is any		<b>的现在,我将中国的</b> 教育	and the second		2
63		Operation and maintemnance of glass cullet sto compartment at the Tuen Mun Area 38 Fill Bank	orage	Sat 1/1/22	Sun 31/12/23	730 days	5SS	0												
64	~	Portion B of the Site PMI no.05 Construction of vehicle washing h facilities	nouse	Wed 6/4/22	Fri 2/9/22	180 days			the second se											
65	~	Submission of method statement of vehicle house facilities	washing	Wed 6/4/22	Wed 6/4/22	1 day		1												
			Task				Exte	rnal Tasks	5				Dura	tion-onl	y				External T	1.00
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66	1	Obtaning approval from the Project Manager	Mon 25/4/22	Mon 25/4/22	1 day	65	2		7/23	5	1 10	0 1	17		24	1 21	l	/	1 14		21
67	~	Fabrication and delivery of the vehicle washing house facilities materials on site	e Fri 10/6/22	Mon 8/8/22	70 days		5														
68	~	Installation of the vehicle washing house facilities	Tue 9/8/22	Thu 1/9/22	17 days	67	2														
69	<b>~</b> ,	Trial run of vehicle washing house facilities	Fri 2/9/22	Fri 2/9/22	1 day	68	0														
70	_	PMI no.20 Implementation of C easy system at TMFE	Mon 22/8/22	Tue 27/12/22	118 days	5			1.3.1				25.5								
71	1	Submission of method statement for approval	Mon 22/8/22	Sun 28/8/22	1 day		1														
72	~	Obtaining approval from the Project Manager	Mon 29/8/22	Sun 18/9/22	1 day	71	2														
73	~	Ordering and delivery of C easy system hardware to site	Mon 19/9/22	Wed 2/11/22	5 days	72	3	×	197 . H												
74	~	Installation of the C Easy system	Thu 3/11/22	Wed 16/11/22	18 days	73	2														
75	~	Trail run of the system	Thu 17/11/22	Wed 30/11/22	0 days	74	2														
76		Parallel run with the old system	Thu 1/12/22	Mon 26/12/22	26 days	75	2														
77	<b>P</b>	Operation with C easy system individually	Tue 27/12/22	Tue 27/12/22	1 day	76	0														
78		Handing over the facilities at the Tuen Mun Area 38 Fill Bank within Portion B of the Site to the Employer	Sun 31/12/23	Sun 31/12/23	1 day	9SS	0														
79		Planned Completion Date (Section 2)		Sun 31/12/23																	
80		Section 3 of the Works - Designated Reclamation Sites the Mainland	in Mon 20/12/21	Sun 31/12/23	755 days	3	-														
81		Collection and delivery of 2 million tonnes of Public Fill by vessels from Tseung Kwan O Area 137 Fill Ba and the Tuen Mun Area 38 Fill Bank to the Desiognat Reclamation Sites in the Mainland	nk	Sun 31/12/23	744 days												- 14 - 14	-			
82	~	1st and 2nd quarter of first year	Mon 20/12/21	Thu 31/3/22	190 days	; ;			а — ж 1												
83	~	Installing Front End Mobile Unit (FEMU) onto the proposed vessels	Mon 20/12/21	Sun 26/12/21	1 day		2												3		
84	~	Submitting application documents to EPD for application of dumping permits		Mon 20/12/21	1 day		0		* .									с В. с		·	
85	~	Obtaining the dumping permit from EPD	Tue 21/12/21	Fri 31/12/21	1 day	84	2	-	2° 2°									с. – я,			
86	~	Submitting Application documents to the Employe for the application of the dumping permit of waste the sea		Mon 20/12/21	1 day																
87	~	Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer		Fri 31/12/21	1 day		14														
88	~	Obtaining all necessary permits, licenses, approva and concents		Fri 31/12/21	1 day		14									-					
89	~	Collection and delivery of 166666 tonnes of Public	Fil Sat 1/1/22	Thu 31/3/22	21 days		10														
90	$\checkmark$	3rd quarter of first year	Fri 20/5/22	Fri 30/9/22	168 days																
91	<b>V</b>	Submitting application documents to EPD for application of dumping permits	Fri 17/6/22	Fri 17/6/22	1 day		0									5					
92	×.	Obtaining the dumping permit from EPD	Sat 18/6/22	Thu 30/6/22	1 day	91	14	-		A Sel											
93	×.	Submitting Application documents to the Employe for the application of the dumping permit of waste the sea		Fri 20/5/22	1 day		0		2 4												
94	~	Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer	Sat 21/5/22	Thu 30/6/22	1 day	93	14	-													
95	~	Obtaining all necessary permits, licenses,approva and concents		Thu 30/6/22	1 day		0		-												
96	~	Collection and delivery of 499998 tonnes of Public		Fri 30/9/22	1 day	95,92,9	4 14		1 4 40 1												
97	$\checkmark$	4th quarter of first year	Sat 20/8/22	Sat 31/12/22	71 days																
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Inactive Summary

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Summary

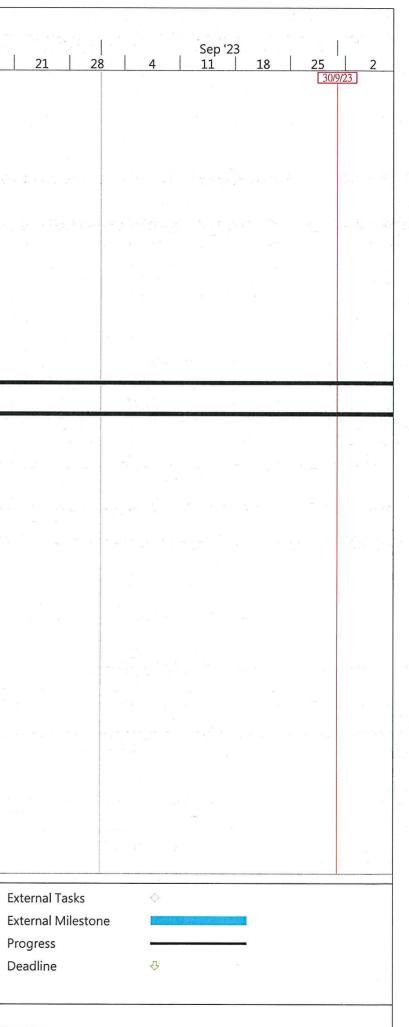
Project Summary

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			Start	Finish			risk allowa					Jul '	23						Aug '23		
	0							26		3		10	17	7	24		81	7	14		21
98	~	Submitting application documents to EPD fo application of dumping permits		Sat 17/9/22	14 days		0		7/23												
99	~	Obtaining the dumping permit from EPD (as on 30/9/22)	sumed Sun 18/9/22	Fri 30/9/22	5 days	98	2														
100	~	Submiting Application documents to the Emp for the application of the dumping permit of v the sea		Sat 20/8/22	1 day		0														
101	~	Obtaining the dumping permits from Ministr Ecology and environment of the People's Re of China through the Employer (assumed on	public	Fri 30/9/22	1 day	100	14														
102	~	Obtaining all necessary permits, licenses, ap		Fri 30/9/22	1 day		2		1 - 1												
103	~	and concents Collection and delivery of 333332 tonnes of I	Public Fil Sat 1/10/22	Sat 31/12/22	15 days	96,102,	1:14	in stat	1.2			2624				- 1°-1.					
104	~	1st quarter of second year	Sun 20/11/22	Fri 31/3/23	76 days				1.54												
105	~	Submitting application documents to EPD fo	r Sun 18/12/22	Sun 18/12/22	1 day		0														
106	~	application of dumping permits Obtaining the dumping permit from EPD (as	sumed Mon 19/12/22	Sat 31/12/22	1 day	105	2													-	
		on 31/12/22)					0	- II.	1												
107	~	Submiting Application documents to the Emp for the application of the dumping permit of v the sea	vaste at	Sun 20/11/22	1 day		0														
108	~	Obtaining the dumping permits from Ministr Ecology and environment of the People's Re of China through the Employer		Sat 31/12/22	1 day	107	14														
109	~	Obtaining all necessary permits, licenses,app and concents	provals Sun 18/12/22	Sat 31/12/22	1 day		2														
110	1	Collection and delivery of 250000 tonnes of	Public F Sun 1/1/23	Fri 31/3/23	14 days	103,109	, 14														
111		2nd quarter of second year	Sat 18/2/23	Fri 30/6/23	133 days																
112	H	Submitting application documents to EPD for application of dumping permits	r Sat 18/3/23	Sat 18/3/23	1 day		0														
113		Obtaining the dumping permit from EPD (as on 31/3/23)	sumed Sun 19/3/23	Fri 31/3/23	13 days	112	2														
114		Submiting Application documents to the Emp for the application of the dumping permit of w the sea	oloyer Sat 18/2/23 vaste at	Sat 18/2/23	1 day		0	-													
115		Obtaining the dumping permits from Ministr Ecology and environment of the People's Re	public	Fri 31/3/23	41 days	114	14														
116		of China through the Employer (assumed or Obtaining all necessary permits, licenses,app		Fri 31/3/23	14 days		2														
117	-	and concents Collection and delivery of 250000 tonnes of	Public F Sat 1/4/23	Fri 30/6/23	91 days	110,113	, 14														
118	-	3rd quarter of second year	Sat 20/5/23	Sat 30/9/23	134 days								I DAV SHE K								
119	~	Submitting application documents to EPD for application of dumping permits	sat 17/6/23	Sat 17/6/23	1 day		0														
120		Obtaining the dumping permit from EPD (as on 30/6/23)	sumed Sun 18/6/23	Fri 30/6/23	13 days	119	14							4							
121		Submiting Application documents to the Emp for the application of the dumping permit of w the sea		Sat 20/5/23	1 day		0														
122		Obtaining the dumping permits from Ministr Ecology and environment of the People's Re of China through the Employer (assumed on	public	Fri 30/6/23	41 days	121	14							272							
123		Obtaining all necessary permits, licenses,app and concents		Fri 30/6/23	14 days		2														
124	TE	Collection and delivery of 250000 tonnes of	Public F Sat 1/7/23	Sat 30/9/23	92 days	117,123	14						and the state of	S MARLON DE			Constantine Auto	A STATE AND A STATE			(Printer)
125	1	4th quarter of second year	Sun 20/8/23												and the second second				and the second second second	<b>-</b>	
126		Submitting application documents to EPD for application of dumping permits	Sun 17/9/23	Sun 17/9/23	1 day		0													-	
127		Obtaining the dumping permits on 30/9/23)	sumed Mon 18/9/23	Sat 30/9/23	13 days	126	2					5 · · ·							21 22 2		
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Project Summary

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128		Submiting Application documents to the for the application of the dumping permit the sea	Employer of waste at	Sun 20/8/23	Sun 20/8/23	1 day		0	1	<u>ПІ23</u>										I		
129	H	Obtaining the dumping permits from Mi Ecology and environment of the People's of China through the Employer(assumed	s Republic	Mon 21/8/23	Sat 30/9/23	41 days	128	14														
130	H.	Obtaining all necessary permits, licenses and concents		Sun 17/9/23	Sat 30/9/23	14 days		0														
131		Collection and delivery of 250000 tonne	s of Public F	Sun 1/10/23	Sun 31/12/23	80 days	124,130	, 14	1920					종은			1.2.2					a. Alex
132		Removal, excavation and deposition of stoc and/or deposited Public Fill within the Desig Reclamation Sites in the Mainland		Sat 1/1/22	Sun 31/12/23	730 days	6SS	 	-03-1				e ar Starras		n en e				a esta da		-114	
133	HE	Removal, excavation and deposition of stoc and/or deposited public fill	kpiled	Sat 1/1/22	Sun 31/12/23	730 days		14							(Arrestate)	a and the second	a de la composition de la comp				55-1.540	
134		Operation and maintenance of the existing r channel and turning basins in association v existing berthing facilituy at Zone E of the D Reclamation Sites in the Mainland	vith the	Sat 1/1/22	Sun 31/12/23	730 days	6SS															
135		Operation and maintenance of the existing r channel and turning basins	navigation	Sat 1/1/22	Sun 31/12/23	730 days		14	1000			- A. 201			10-17 N-2007			Met O	an met tilla oct	the section of the se		
136		Design, construction, operation and mainte the new navigation channel and turning bas association with the new berthing facility at the Designated Reclamation Sites in the Ma (subject to Project's Manager's instruction)	ins in Zone B of	Sat 12/12/09	Sat 12/12/09	564 days					t tus -											
137		Obtaining the dumping permits from Minist Ecology and environment of the People's Re China through the Employer for Zone A & B on 31/12/21)	epublic of	Fri 31/12/21	Mon 31/1/22	1 day		0														
138		Preparation of design submission		Sat 1/1/22	Sun 30/1/22	30 days	137	7														
139	H	Obtaining all necessary design approvals ar	nd concents	Mon 31/1/22	Tue 1/3/22	30 days	138	7														
140		Construction of the new navigation channel basins	and turning	Wed 2/3/22	Fri 29/7/22	150 days	139	14									lo Star R				21 <b>•</b>	
141	H B	Obtaining the construction completion certifi	icate	Sat 30/7/22	Sun 28/8/22	30 days	140	7														
142		Operation and maintenance of navigation c turning basins	hannel and	Mon 29/8/22	Sun 31/12/23	321 days	141	14					in in the second				an statements	A.S. WOLL	entra Film			
143		Design, construction, operation and mainten new berthing facilities at Zone B of the Desi Reclamation Sites in the Mainland (subject to Manager's instruction)	gnated	Fri 31/12/21	Sun 31/12/23	564 days					Г.н.											
144		Obtaining the dumping permits from Minist Ecology and environment of the People's Re China through the Employer for Zone A & B on 31/12/21)	epublic of	Fri 31/12/21	Fri 31/12/21	1 day																
145		Preparation of design submission	5	Sat 1/1/22	Sun 30/1/22	30 days	144	7														
146	H	Obtaining all necessary design approvals an	nd concents I	Mon 31/1/22	Tue 1/3/22	30 days	145	7		a												
147		Construction of the berthing facilities	١	Wed 2/3/22	Sun 28/8/22	180 days	146	14		÷												
148		Obtaining the construction completion certifi	cate I	Mon 29/8/22	Tue 27/9/22	30 days	147	7	-													
149	-	Operation and maintenance of new berthing	facilities	Wed 28/9/22	Sun 31/12/23			14		0.000	alate di Asi		And the state of the		Select senses		NICOLANDO	La companya da la com		North States		
150		Design and construction of seawalls (appro 200m) in association with new berthing facil B of the Designated Reclamation Sites in the	ity at Zone	Fri 10/6/22	Sat 4/2/23	181 days			-			5						÷.,	¢ч.,			
151		Obtaining the dumping permits from Minist Ecology and environment of the People's Re China through the Employer for Zone A & B	epublic of	Sat 1/1/22	Sat 1/1/22	1 day		0														
152		Preparation of design submission (PMI no1		Sun 2/1/22	Mon 31/1/22	30 days	151	7										5				
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		H	Obtaining all necessary design approvals an	nd concents Tue 1/2/22	Wed 2/3/22	30 days	152	7	1/1/			<b>,</b>	1/	24			14	
	154		Construction of seawalls (subject to Project's instruction)	s Manager's Thu 3/3/22	Tue 31/5/22	90 days	153	14										
	155		Obtaining the construction completion certifi (subject to Project's Manager's instruction)	cate Wed 1/6/22	Thu 30/6/22	30 days	154	7										
	156		Planned Completion Date (Section 3)	Sun 31/12/23	Sun 31/12/23	0 days								1				
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Implementation Schedule of Environmental Mitigation Measures (EMIS)



# Environmental Mitigation Implementation Schedule

				Implementa	ation Status	
	Environmental Protection Measures	Location	Implemented	Partially implemented	Not implemented	Not Applicable
Ai	Quality					
•	Dust control / mitigation measures shall be provided to prevent dust nuisance.	All areas		$\checkmark$		
•	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	$\checkmark$			
•	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	$\checkmark$			
٠	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	$\checkmark$			
•	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.		$\checkmark$			
No	ise Impact		$\checkmark$			
•	Approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	All areas				
•	Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.	All areas	$\checkmark$			
•	Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.	All areas	$\checkmark$			
•	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 periods or should be throttled down to a minimum.	All areas	$\checkmark$			
•	Noisy equipment and mobile plant shall always be site away from NSRs.	All areas	$\checkmark$			



	Location	\ \	Implementa	ation Status	
Environmental Protection Measures		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				
<ul> <li>The permanent drainage channels should have sediment basin, traps and baffles and maintain properly.</li> </ul>	All areas	$\checkmark$			
<ul> <li>Temporary intercepting drains should be used at the stockpiling area to divert polluted stormwater to the intercepting channels.</li> <li>Earth bunds and sand bay barriers shall be used to assist the diversion of polluted stormwater to the intercepting channels.</li> </ul>	All areas	$\checkmark$			
<ul> <li>Manholes should be covered and sealed.</li> </ul>	All areas	$\checkmark$			
<ul> <li>Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding.</li> </ul>	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	$\checkmark$			
<ul> <li>A buffer distance of at least 20m shall be maintained between the boundary of the C&amp;DMSF and the seafront.</li> </ul>	C&DMFS	$\checkmark$			
<ul> <li>The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.</li> </ul>	All areas	$\checkmark$			
<ul> <li>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.</li> </ul>	Temporary Slopes	$\checkmark$			
<ul> <li>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.</li> </ul>	Temporary Slopes	$\checkmark$			
<ul> <li>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.</li> </ul>	All areas	$\checkmark$			
<ul> <li>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.</li> </ul>	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	$\checkmark$			
<ul> <li>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.</li> </ul>	All areas	$\checkmark$			
<ul> <li>Oil intercept in addition of sand / silt removal facilities shall be provided at the car parking areas and work shop.</li> </ul>	All areas	$\checkmark$			
<ul> <li>Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water.</li> </ul>	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)	$\checkmark$			
<ul> <li>All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport.</li> </ul>	Barge Handling Area (BHA)	$\checkmark$			
<ul> <li>Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.</li> </ul>	Along the seafront	$\checkmark$			
<ul> <li>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.</li> </ul>	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	V			
<ul> <li>A waste collection vessel shall be deployed to remove floating debris.</li> </ul>	Along the seafront	$\checkmark$			



		Location		Implementa	tion Status	
	Environmental Protection Measures		Implemented	Partially implemented	Not implemented	Not Applicable
La	ndscape and Visual					
•	Construction of lighting to avoid spillage and glare	All areas	$\checkmark$			
•	Hydroseeding	Completed slopes	$\checkmark$			
•	Hoarding erection	Site boundary	$\checkmark$			
٠	Damage to surrounding area avoided	All areas	$\checkmark$			
O	her 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		$\checkmark$		
٠	Bund chemical storage area to 110% capacity.	All areas	$\checkmark$			
٠	Prevent disposal of hazardous materials to air, soil and water body	All areas	$\checkmark$			
٠	Provide rubbish skips at all work areas	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	$\checkmark$			



11

Statistical Analysis of the Trend of Suspended Solids in the Quarter



# Statistical Analysis of the Trend of Suspended Solids

## For Mid-Flood Tide

#### Station: M4

#### <u>t-test</u>

Group Name	Ν	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	6.9690	1.0690	0.3086
Quarterly Mean	38	0	3.0009	1.0127	0.1643

#### Result:

Difference between means = 4.1186 (95% CI : 3.4048 < Diff < 4.8324)

t-value of difference = 11.6244 (19 degrees of freedom)

Calculated t-value > Critical t-value

#### **Conclusion:**

There is statistically significant difference between the groups. The P-Value of 130% Baseline Mean is larger than quarterly mean = >0.99The result of suspended solids in this reporting period is lower than that of 130% baseline.

#### Station: C1

#### <u>t-test</u>

Group Name	Ν	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	6.969	0.950	0.2742
Quarterly Mean	38	0	3.0009	1.0127	0.1643

#### Result:

Difference between means = 3.9681 (95% CI : 3.3032 < Diff < 4.6330)

t-value of difference = 12.4128 (20 degrees of freedom)

Calculated t-value > Critical t-value

#### **Conclusion:**

There is statistically significant difference between the groups. The P-Value of 130% Baseline Mean is larger than quarterly mean = >0.99The result of suspended solids in this reporting period is lower than that of 130% baseline.



# Statistical Analysis of the Trend of Suspended Solids

## For Mid-Ebb Tide

#### Station: M4

#### <u>t-test</u>

Group Name	Ν	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	6.897	1.449	0.4183
Quarterly Mean	38	0	3.0728	0.9794	0.1589

#### Result:

Difference between means = 3.8602 (95% CI : 3.1979 < Diff < 4.5225)

t-value of difference = 11.3220 (18 degrees of freedom)

Calculated t-value > Critical t-value

#### **Conclusion:**

There is statistically significant difference between the groups. The P-Value of 130% Baseline Mean is larger than quarterly mean = >0.99The result of suspended solids in this reporting period is lower than that of 130% baseline.

#### Station: C1

#### <u>t-test</u>

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	6.933	1.045	0.3017
Quarterly Mean	38	0	3.0417	0.9019	0.1463

#### Result:

Difference between means = 3.8553 (95% CI : 3.1544 < Diff < 4.5562)

t-value of difference = 8.7000 (14 degrees of freedom)

Calculated t-value > Critical t-value

#### **Conclusion:**

There is statistically significant difference between the groups. The P-Value of 130% Baseline Mean is larger than quarterly mean = >0.99The result of suspended solids in this reporting period is lower than that of 130% baseline.



12

# Statistical Analysis of the Trend of Suspended Solids in the Quarter (3RS)



# Statistical Analysis of the Trend of Suspended Solids

## For Mid-Flood Tide

#### Station: C1a

#### t-test

Group Name	Ν	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	4.1580	1.3670	0.3946
Quarterly Mean	38	0	3.1987	0.8332	0.1352

#### Result:

Difference between means = 0.9593 (95% CI : 0.3058 < Diff < 1.6128) t-value of difference = 2.2998 (14 degrees of freedom)

Calculated t-value > Critical t-value <u>Conclusion:</u> There is statistically significant difference between the groups.

The P-Value of 130% Baseline Mean is larger than quarterly mean = >0.99

The result of suspended solids in this reporting period is lower than that of 130% baseline.

#### Station: M4a

#### <u>t-test</u>

Group Name	Ν	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	3.9020	1.1420	0.3297
Quarterly Mean	38	0	3.0864	0.8148	0.1322

#### Result:

Difference between means = 0.8156 (95% CI : 0.2162 < Diff < 1.4150) t-value of difference = 2.2963 (15 degrees of freedom)

#### Calculated t-value > Critical t-value

#### Conclusion:

There is statistically significant difference between the groups. The P-Value of 130% Baseline Mean is larger than quarterly mean = >0.99 The result of suspended solids in this reporting period is lower than that of 130% baseline.

#### Station: M5

#### <u>t-test</u>

Group Name	Ν	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	3.9360	1.4140	0.4082
Quarterly Mean	38	0	3.3408	0.8048	0.1306

#### Result:

Difference between means = 0.5952 (95% CI : -0.0563 < Diff < 1.2467) t-value of difference = 1.3889 (13 degrees of freedom)

Calculated t-value > Critical t-value Conclusion:

There is statistically significant difference between the groups.

The P-Value of 130% Baseline Mean is larger than quarterly mean = >0.99

The result of suspended solids in this reporting period is lower than that of 130% baseline.



# Statistical Analysis of the Trend of Suspended Solids

### For Mid-Ebb Tide

#### Station: C1a

#### t-test

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	4.2860	1.3530	0.3906
Quarterly Mean	38	0	3.5026	0.6197	0.1005

#### Result:

Difference between means = 0.7834 (95% CI : 0.2202 < Diff < 1.3466) t-value of difference = 1.9424 (12 degrees of freedom)

Calculated t-value > Critical t-value

#### Conclusion:

There is statistically significant difference between the groups.

The P-Value of 130% Baseline Mean is larger than quarterly mean = >0.99

The result of suspended solids in this reporting period is lower than that of 130% baseline.

#### Station: M4a

#### <u>t-test</u>

Group Name	Ν	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	4.0900	1.3250	0.3825
Quarterly Mean	38	0	3.4715	0.7191	0.1167

#### Result:

Difference between means = 0.6185 (95% CI : 0.0227 < Diff < 1.2144) t-value of difference = 1.5467 (13 degrees of freedom)

Calculated t-value > Critical t-value

#### Conclusion:

There is statistically significant difference between the groups.

The P-Value of 130% Baseline Mean is larger than quarterly mean = >0.99

The result of suspended solids in this reporting period is lower than that of 130% baseline.

#### Station: M5

#### t-test

Group Name	Ν	Missing	Mean	Std D0ev	SE
130% Baseline Mean	12	0	3.7900	1.4650	0.4229
Quarterly Mean	38	0	3.3741	0.7105	0.1153

#### Result:

Difference between means =0.4159 (95% Cl : -0.2090 < Diff < 1.0408) t-value of difference = 0.9488 (13 degrees of freedom)

Calculated t-value > Critical t-value

#### Conclusion:

There is statistically significant difference between the groups.

The P-Value of 130% Baseline Mean is larger than quarterly mean = >0.99

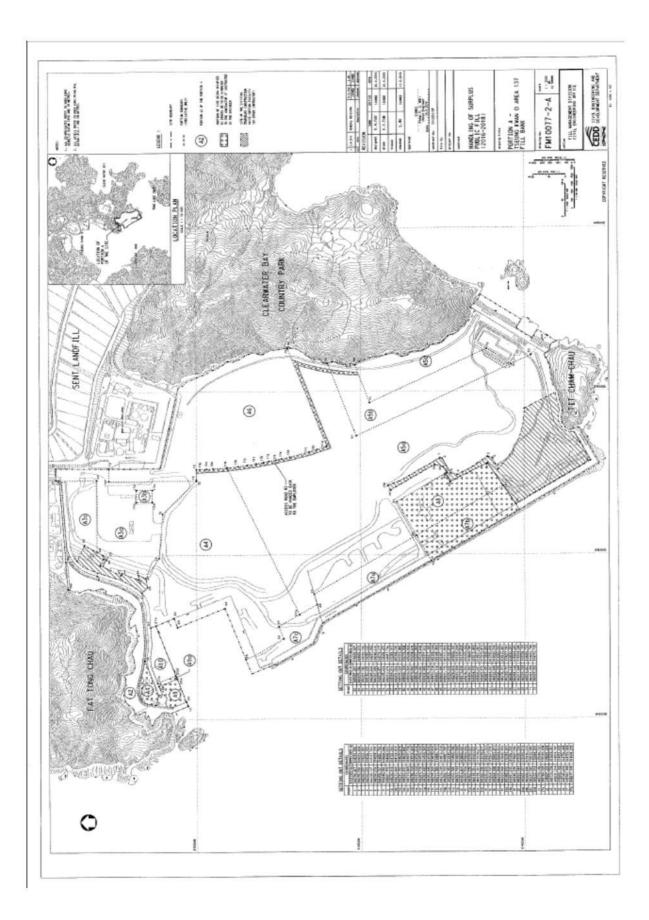
The result of suspended solids in this reporting period is lower than that of 130% baseline.



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Site General Layout plan







Κ

Weather Condition

	-					-		ung Kwar	
	Mean				Mean	Mean	Total	Prevailing	Mean
	Pressure	Ai	r Temperatu	ıre	Dew	Relative	Rainfall	Wind	Wind
	(hPa)				Point	Humidity	(mm)	Direction	Speed
Day		Absolute	Mean	Absolute	(deg. C)	· (%)		(degrees)	· (km/h)
					(ueg. C)	(/0)		(uegrees)	
		Daily	(deg.C)	Daily					
		Max		Min					
		(deg. C)		(deg. C)					
1	1006.6	30.9	28.9	26.2	25.6	82	4.7	200	16.2
2	1007.9	29.3	27.5	26.2	25.5	89	15.6	240	11.6
3	1008.8	32.4	28.9	27	25.7	83	3.6	200	19.5
4	1008.7	32	29.3	26.7	25.8	82	10.6	230	25.5
5	1008.4	33	30.4	28.9	25.9	77	Trace	230	25.5
6	1008.9	32.8	30.3	28.4	25.7	77	Trace	230	26.7
7	1009.7	33.4	30.4	29	25.7	76	0.3	220	24.7
8	1010.4	33.2	30.4	28.8	25.6	76	-	240	18.7
9	1009.8	33.7	30.5	28.7	26	77	Trace	240	21.5
10	1008.5	33.7	30.7	28.9	25.7	75	-	240	21.5
11	1008.4	33.6	30.7	28.9	25.8	76	-	240	18
12	1008.2	34.5	30.7	28.9	25.4	74	-	180	11
13	1006.8	34.8	30.9	28.6	24.8	71	-	90	6.5
14	1004.4	33.8	31.3	28.5	25.2	71	-	240	9.1
15	1000.8	34.5	31.1	28.2	25.8	74	2.5	270	11.7
16	997.7	33.3	29.7	27.2	24.8	75	4.9	50	45.5
17	997.5	29.4	28.4	27.2	25.7	85	29	100	61.4
18	1004.5	31.1	29.2	27.5	26.6	86	10.9	120	35.3
19	1007.5	30.3	28.7	27.3	26.5	88	3.9	120	19.8
20	1008.5	33.6	29.6	26.8	25.6	80	4.8	120	10.6
21	1009.7	32.4	29.7	27.7	25.6	79	Trace	160	5.4
22	1010.8	34	30.6	28.3	25.7	76	-	120	4.6
23	1009.5	34.1	30.6	28.6	26	77	Trace	110	8
24	1007.7	34.6	30.7	28.4	26	76	-	130	5.5
25	1006.3	33.4	30.7	28.4	25.3	73	-	240	14.3
26	1002.3	35.5	32	29.3	26.1	72	-	10	8.7
27	997.7	36.1	32.2	28.4	25.1	67	6.9	360	16.6
28	996.8	34.7	31.5	28.9	25.7	72	-	230	16.6
29	1002.3	31.5	29.8	27.2	26.8	84	21	220	18
30	1005.4	32.1	29.2	27.5	26.7	87	10	140	17.3
31	1006.3	32.5	29.1	26.5	26.1	84	46.5	80	21.9

# Daily Extract of Meteorological Observations , July 2023 - Tseung Kwan O

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

	-							eung Kw	
	Mean				Mean	Mean	Total	Prevailing	Mean
	Pressure	Ai	r Temperatu	ıre	Dew	Relative	Rainfall	Wind	Wind
	(hPa)				Point	Humidity	(mm)	Direction	Speed
Day		Absolute	Mean	Absolute	(deg. C)	(%)		(degrees)	· (km/h)
					(ueg. C)	(70)		(uegrees)	
		Daily	(deg.C)	Daily					
		Max		Min					
		(deg. C)		(deg. C)					
1	1004.7	32.2	29.3	27.9	25.3	80	Trace	70	10.6
2	1003.7	34.6	30.4	27.9	24.1	70	-	60	9.4
3	1002.8	35.1	30.8	27.9	25.2	73	-	170	10.8
4	1004.7	33.5	30.5	28.3	26	77	2.6	220	28.3
5	1004.5	33	30.4	28.3	26.3	79	5.9	230	30.1
6	1002.4	33	30.3	29.2	26.1	78	Trace	230	28.8
7	1001.8	32.4	30.1	28	25.4	76	1.6	230	21.2
8	1003.6	33.3	30.3	28.9	25.2	74	-	230	18
9	1004.9	32.8	30.3	28.7	25.4	76	Trace	230	21.5
10	1004.7	32.1	29.2	27.5	25.7	82	11.1	250	14.3
11	1003.5	30.1	27.8	25.7	24.9	85	26.4	240	16.3
12	1003.5	32.1	29	26.6	24.9	79	0.9	190	15
13	1003.7	29.6	28.5	26.1	25.6	84	34.2	200	13.8
14	1005.2	32.2	29.4	27	25.9	82	3.6	200	15.7
15	1006.7	32.5	29.9	28.8	26.2	80	Trace	210	9.3
16	1006.8	34	30.6	28.8	26.2	78	-	230	16.6
17	1005.2	32	30	29	26.5	82	Trace	250	22
18	1004	30.6	29.2	27.2	26.6	86	9.3	240	16.5
19	1005.7	30.6	28.8	27.3	25.8	84	0.3	230	11.6
20	1007.7	31.5	29.7	28.4	26	80	0.6	120	2.8
21	1007.8	32.1	29.6	28.2	26.2	82	0.2	20	6.4
22	1006.1	33	30	28	25.8	79	0.3	180	5.5
23	1005.3	33.5	30.4	28.2	25.9	78	0.3	190	8.7
24	1006.7	31.4	29.1	27.5	26.1	85	5.7	30	11.7
25	1006.8	30.9	29.3	28.2	26.1	83	0.2	20	8.4
26	1005.2	32.8	29.7	27.9	26.4	83	-	110	5.7
27	1003.2	31.9	29.4	26.4	26.4	84	2.2	110	7.1
28	1002.6	33.4	29.9	28.1	26.2	81	0.5	110	5.3
29	1003.5	32.6	29	26.8	25.8	83	34.4	20	10.5
30	1003.9	32	28.9	26.7	23.3	72	-	360	20
31	1002.7	32.1	29.2	27.7	23.2	70	0.4	350	31.2

# Daily Extract of Meteorological Observations , August 2023 - Tseung Kwan O

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

Mean         Mean         Mean         Mean         Total         Prevailing           Pressure         (hPa)         Air Temperature         Dew         Relative         Rainfall         Wind           Day         Absolute         Mean         Absolute         Mean         (deg. C)         (%)         (mm)         Direction           Daily         (deg. C)         Daily         (deg. C)         Daily         (deg. C)         (%)         (degrees)           1         996.3         28.7         26.9         25         23.2         81         98.9         330           2         1000.1         27.2         26.2         25.2         24.7         92         80.4         80           3         1001.9         33.7         29.4         27         24.6         76         0.1         50           4         1002.1         32.6         29.9         27.3         24.4         73         Trace         270           5         1003.6         31         29.1         27.7         23.6         73         0.4         280           6         1005.4         32.1         29.4         27.8         23.8         72         - <t< th=""><th>Mean Wind Speed (km/h) 65.9 51.8</th></t<>	Mean Wind Speed (km/h) 65.9 51.8
Image: head of the large state of the large sta	Speed (km/h) 65.9 51.8
Day         Absolute         Mean         Absolute         (deg. C)         (%)         (%)         (degrees)           Daily         (deg. C)         Daily         (deg. C)         Daily         (%)         (degrees)           1         996.3         28.7         26.9         25         23.2         81         98.9         330           2         1000.1         27.2         26.2         25.2         24.7         92         80.4         80           3         1001.9         33.7         29.4         27         24.6         76         0.1         50           4         1002.1         32.6         29.9         27.3         24.4         73         Trace         270           5         1003.6         31         29.1         27.7         23.6         73         0.4         280           6         1005.4         32.1         29.4         27.8         23.8         72         -         220	(km/h) 65.9 51.8
Absolute       Mean       Absolute       (deg. C)       (de	65.9 51.8
Max (deg. C)         Min (deg. C)         Min (deg. C)         Min (deg. C)         Min (deg. C)           1         996.3         28.7         26.9         25         23.2         81         98.9         330           2         1000.1         27.2         26.2         25.2         24.7         92         80.4         80           3         1001.9         33.7         29.4         27         24.6         76         0.1         50           4         1002.1         32.6         29.9         27.3         24.4         73         Trace         270           5         1003.6         31         29.1         27.7         23.6         73         0.4         280           6         1005.4         32.1         29.4         27.8         23.8         72         -         220	51.8
Max (deg. C)         Min (deg. C)         Min (deg. C)         Min (deg. C)         Min (deg. C)           1         996.3         28.7         26.9         25         23.2         81         98.9         330           2         1000.1         27.2         26.2         25.2         24.7         92         80.4         80           3         1001.9         33.7         29.4         27         24.6         76         0.1         50           4         1002.1         32.6         29.9         27.3         24.4         73         Trace         270           5         1003.6         31         29.1         27.7         23.6         73         0.4         280           6         1005.4         32.1         29.4         27.8         23.8         72         -         220	51.8
(deg. C)(deg. C)(deg. C)1996.328.726.92523.28198.933021000.127.226.225.224.79280.48031001.933.729.42724.6760.15041002.132.629.927.324.473Trace27051003.63129.127.723.6730.428061005.432.129.427.823.872-220	51.8
1996.328.726.92523.28198.933021000.127.226.225.224.79280.48031001.933.729.42724.6760.15041002.132.629.927.324.473Trace27051003.63129.127.723.6730.428061005.432.129.427.823.872-220	51.8
3         1001.9         33.7         29.4         27         24.6         76         0.1         50           4         1002.1         32.6         29.9         27.3         24.4         73         Trace         270           5         1003.6         31         29.1         27.7         23.6         73         0.4         280           6         1005.4         32.1         29.4         27.8         23.8         72         -         220	
41002.132.629.927.324.473Trace27051003.63129.127.723.6730.428061005.432.129.427.823.872-220	
5         1003.6         31         29.1         27.7         23.6         73         0.4         280           6         1005.4         32.1         29.4         27.8         23.8         72         -         220	13.8
6         1005.4         32.1         29.4         27.8         23.8         72         -         220	8.5
	13
7 10063 297 277 255 256 89 2157 90	16
	17.4
8 1007.9 26.3 25.7 25 24.7 94 425 80	30.8
9 1008.2 26.6 26.2 25.5 24.7 92 9.8 80	18.4
10 1008.3 26.5 25.8 24.8 24.5 93 67.4 80	19.8
11 1007.3 28.2 26.5 25.6 25.3 93 20.5 80	21.4
12 1006.5 29.4 27 26 25 89 0.9 70	10.2
13 1006.6 30.4 27.9 26.8 25.7 88 2.5 70	16.2
14         1007.7         28.2         26.9         25.6         25.5         92         103.5         70	18.5
15 1009.5 30.6 27.3 25.2 25.3 89 28.5 70	16.1
16         1011.1         28.8         27.1         25.4         25.2         89         4.3         70	17.6
17 1010.9 31.7 28.5 26.8 25.5 85 - 60	15.1
18 1011.4 32.7 29.2 27.4 25.3 80 - 60	7.5
19         1011.9         33.5         29.5         27.3         25.3         79         -         90	4.6
20 1011 32.9 29.6 27.5 24.7 76 - 100	2.7
21 1010.5 33.6 30 27.6 25.5 77 - 220	8.9
22 1010.4 34.4 30.2 28.4 25.3 75 Trace 80	5.7
23 1010.5 33.7 30.1 28.3 24.8 74 - 60	22.9
24 1009.9 33.1 29.9 28.5 24.9 75 - 60	30.5
25 1010.1 33.1 29.8 27.9 25 76 1.5 60	30.4
26         1010.7         33.4         30         28.3         25         75         -         60	28.3
27 1010.5 33.9 30.3 28.6 24.7 72 Trace 80	20.3
28 1011.6 33.6 30.3 28.7 24.4 71 - 70	25.9
29         1012         33.7         29.8         26.7         25.4         78         7.7         70	21.8
<u>30</u> 1010.4 <u>33.6</u> <u>30</u> <u>28.2</u> <u>25</u> <u>75</u> <u>-</u> 140	9
	· · · · · · · · · · · · · · · · · · ·

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



Figures

