

東業德勤測試顧問有限公司 ETS-TESTCONSULT LTD.

TEST REPORT

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

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



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.01

(FROM JANUARY 2022 TO MARCH 2022)

Prepared by:

LAU, Wing Sum

Assistant Environmental Officer

Checked by:

LAU, Chi Leung

Environmental Team Leader

Issue Date: 29 September 2022

Report No: ENA21570

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Our Ref:

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

14 August 2023

Dear Mr. Lau,

RE: Contract No. CV/2021/09

Handling of Surplus Public Fill (2022-2023)

Quarterly EM&A Report (No. 1) for January to March 2022 for the Tseung Kwan O Area 137 Fill Bank

Reference is made to your submission of the Quarterly EM&A Report for January to March 2022 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,

Tour Sauldery

F. C. Tsang

Independent Environmental Checker

CEDD - Mr. T M YEUNG cc.



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EXECUTIVE SUMMARY

This is Quarterly Environmental Monitoring and Audit (EM&A) Summary Report No.01 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 January 2022 to 31 March 2022.

Site Activities

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

January 2022

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

February 2022

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

March 2022

- 1. Operation of the Public Fill Reception Facilities at Tseung Kwan O Fill Bank (TKOFB);
- 2. Operation of dewatering plant at TKOFB;
- 3. Operation of crushing plants at TKOFB;
- 4. Operation and Maintenance of Artificial Intelligent System for Crushing Plant Nos.2,3 and
- 4 (Model QJ241) at

TKOFB;

- 5. Operation of the Integrated Public Fill Reception (Fixed Rigid Platform) at TKOFB;
- 6. Operation and Maintenance of Wash House at TKOFB;
- 7. Personnel Position Tracking and Proximity Detection System of Moving Plant at TKOFB;
- 8. Maintenance of the Drainage Systems along the Concrete Paved Road at TKOFB;
- 9. Modification and Operation a Digital Works Supervision System (DWSS) for TKOFB;
- 10. Operation and maintenance of Wheel Washing Facility at TKOFB;
- 11. Carrying out of preliminary sorting of public fill for 3RS project at TKOFB
- 12. Installation and modification of New RFID System for the pre-sorting works at TKOFB

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.

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.



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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.



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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/O) (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 January 2022 to March 2022.

2.0 PROJECT INFORMATION

2.1 Scope of the Project

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

- Site clearance:
- Construction of a temporary storm water system;
- Stockpiling of 6 million m³ of public fill;
- Setting up two barging points: one at the 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.

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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 2.1 Contact Details of Key Personnel

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.

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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-hr and 24-hr TSP Monitoring

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Monitoring	Level of	January 2022	February 2022	March 2022	
Parameter	Exceedance				
24-hr TSP	No of monitoring	6	4	5	
	events				
	Action Level	0	0	0	
	Limit Level	0	0	0	
1-hr TSP	No of monitoring	15	15	15	
	events				
	Action Level	0	0	0	
	Limit Level	0	0	0	

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 TS	SP (μg/m³)	24-hr TSI	^Ο (μg/m³)
Perioa	TKO-A1	TKO-A2a	TKO-A1	TKO-A2a
Baseline (29/08 – 13/09)		195	12	23
January 2022	213	200	101	93
February 2022	213	199	108	99
March 2022	222	207	104	96

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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 4.3 Summary of Impact Monitoring results of Noise Daytime Monitoring

Monitoring	Limit Level	January 2022	February 2022	March 2022
Location		Leq, dB(A)		
TKO-N1	75	66.5	62.8	68.1

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.

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

Parameter	Exceedance	January 2022	February 2022	March 2022
	Level			
Number of monitor	ing days	13	11	13
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
Turbially	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

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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.

Table 4.5 Total Number of Marine Water Quality Exceedances (3RS project) in the Quarter

Parameter	Exceedance Level	January 2022	February 2022	March 2022
Number of monitor	ing days	13	11	13
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	X	X	
M4	X	X	

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)

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



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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

The status of licences and permits is summarized in Table 5.1.

Table 5.1 Summary of environmental licensing and permit status

Description	Permit No.	Valid	Month	Section	
		From	То		
Environmental Permit	EP- 134/2002/O	20/08/19	01/01/27	 Site clearance Construction of a temporary storm water system Stockpiling of 6 million m3 of public fill Setting up two barging points for transporting the stockpiled public fill by barges Setting up a temporary barging point at the existing Explosive Off-loading Barging Point for the month of May 2004 to December 2004 for transporting the stockpiled public fill by barge Construction of operation of a construction and Demolition Material Sorting Facility (C&DMSF) Setting up a Construction and Demolition Material Crushing Facility at the TKO Basin Remove the temporary fill bank 	
Chemical Waste Producer	5919-839- C3750-04	19/04/17		Spent battery cell containing heavy metals and spent lubricating oil	
Effluent Discharge License	TBC	TBC	TBC	Effluent, Surface Run-off, and all other wastewater discharges from screen and sedimentation tank	
Marine Dumping Permit	EP/MD/22- 034	08/09/21	TBC	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	



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Billing Account for Waste Disposal	704260115	22/05/17	End of Contract	
Notification	475209	12/04/17	End of	
Pursuant to			Contract	
Section 3(1) of the				
Air Pollution				
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

Waste Type	January 2022	February 2022	March 2022
Public Fill ('000m³)	0	0	0
C&D Waste (general refuse) ('000kg)	46.57	73.27	97.1
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 guarter.

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

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 non-compliance 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.



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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
January 2022	0	0	0
February 2022	0	0	0
March 2022	0	0	0
Cumulative	13	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 guiet machineries on site.



Handling of Surplus Public Fill (2022-2023) Tseung Kwan O Area 137 Fill Bank ENA21570 Quarterly EM&A Summary Report No.01

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 travs; and
- Avoid soil being polluted during oil filling and equipment maintenance; hence, properly remove and store the contaminated soil, if any.

Landscape and Visual

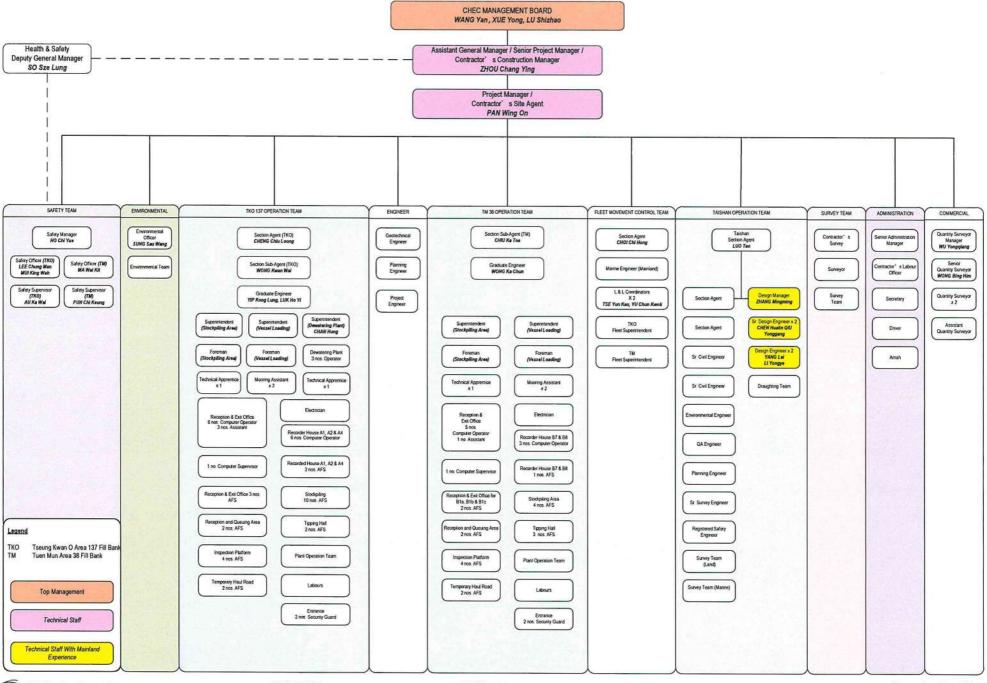
- Provide hydroseeding on the exposed slopes, on which the final profile has been formed;
- Erect all the site hoarding/chaining fences in accordance with agreed design at proper location;
- Maintain the hydroseeding slopes in accordance with the Landscape Plan.

- END OF REPORT -



Α

Organization Chart





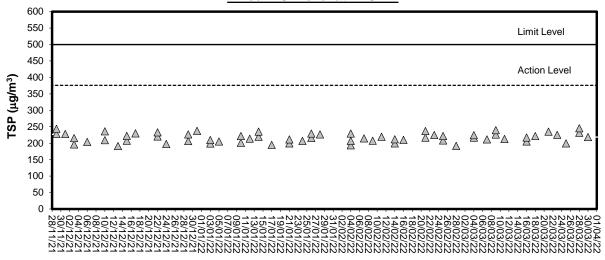


В

Graphical Plots of Air Quality Monitoring Data

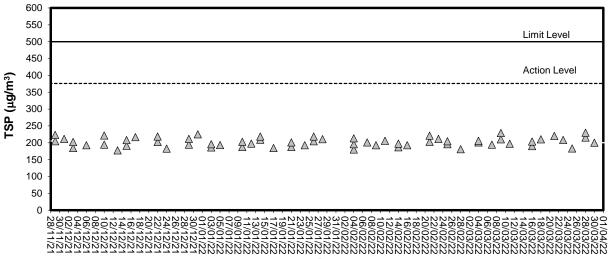


1-hour TSP level at TKO-A1



Date

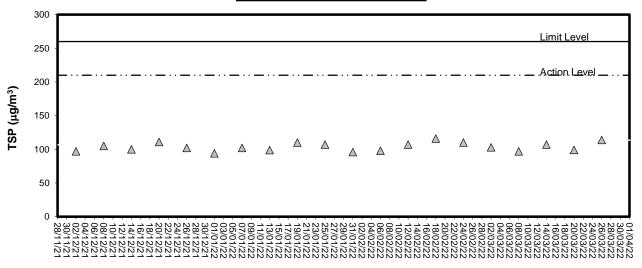
1-hour TSP level at TKO-A2a



Date

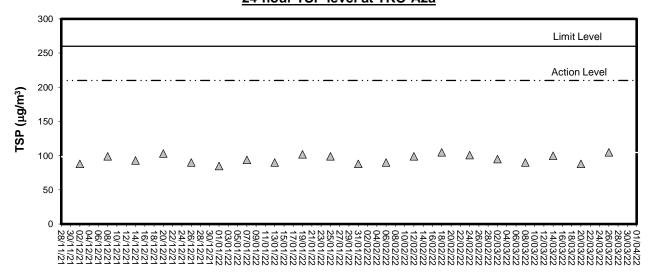


24-hour TSP level at TKO-A1



Date

24-hour TSP level at TKO-A2a



Date



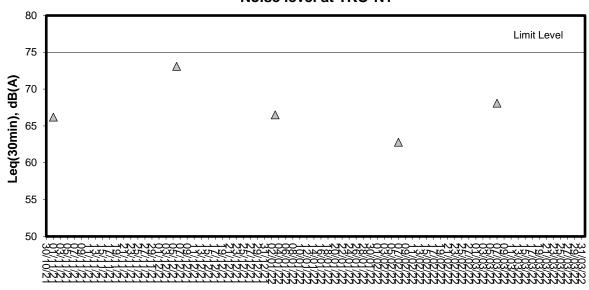
C

Graphical Plots of Noise Monitoring Data



Noise Monitoring (Day-time)

Noise level at TKO-N1



Date

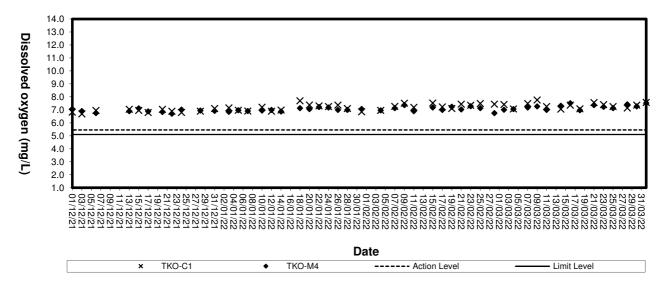


D1

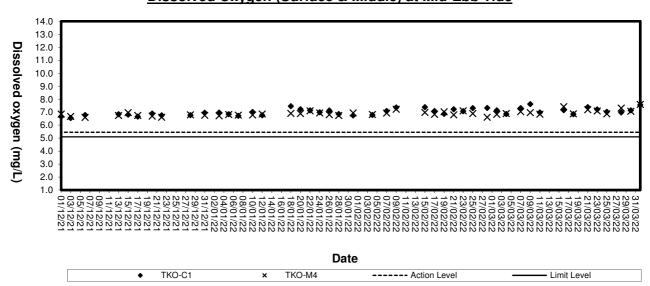
Graphical Plots of Impact Marine Water Quality Monitoring Data



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

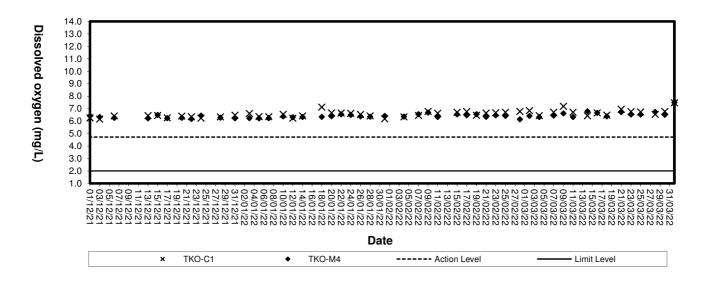


Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide

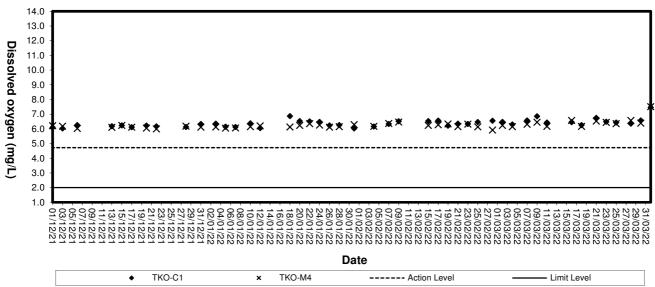




Dissolved Oxygen (Bottom) at Mid-Flood Tide

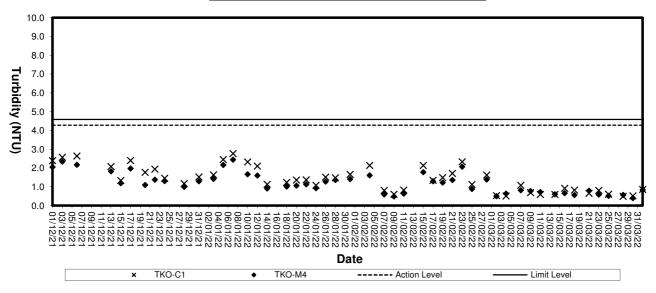


Dissolved Oxygen (Bottom) at Mid-Ebb Tide

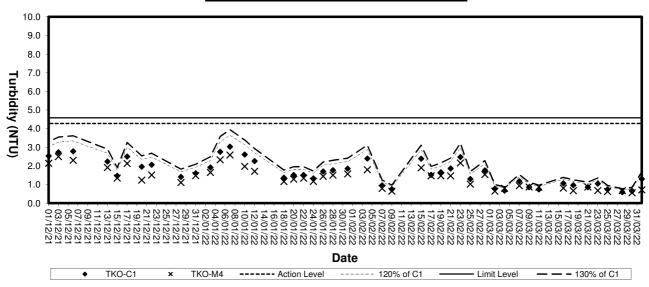




Turbidity (Depth-average) at Mid-Flood Tide

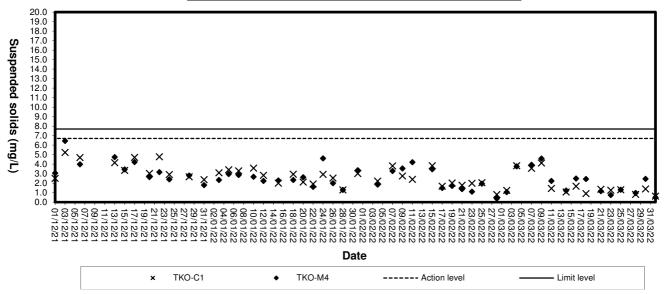


Turbidity(Depth-average) at Mid-Ebb Tide

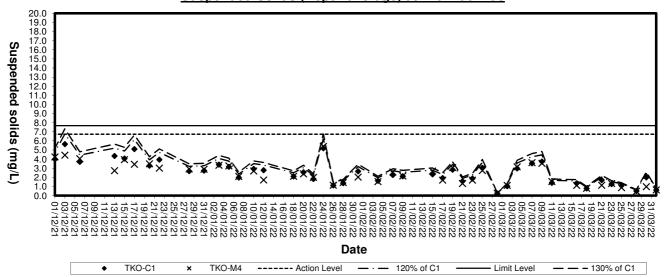




Suspended solids (Depth-average) at Mid-Flood Tide



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



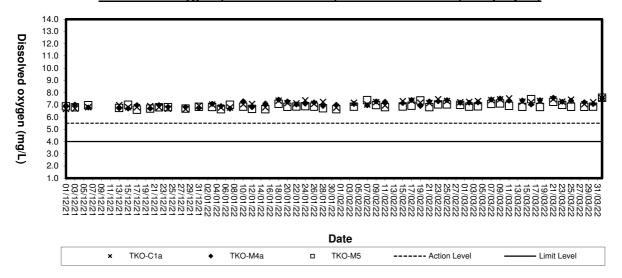


D2

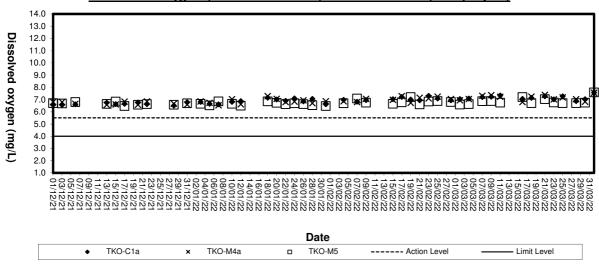
Graphical Plots of Impact Marine Water Quality Monitoring Data (3RS project)



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

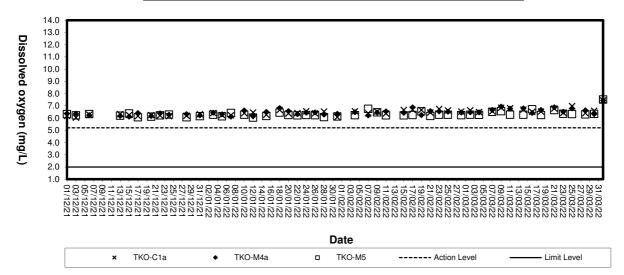


Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide (3RS project)

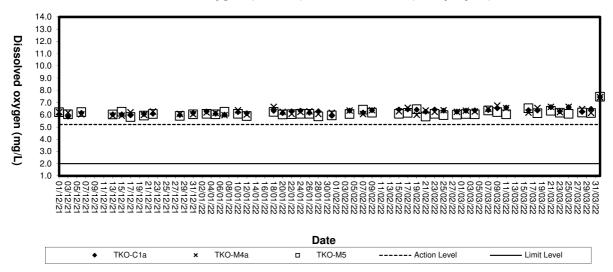




Dissolved Oxygen (Bottom) at Mid-Flood Tide (3RS project)

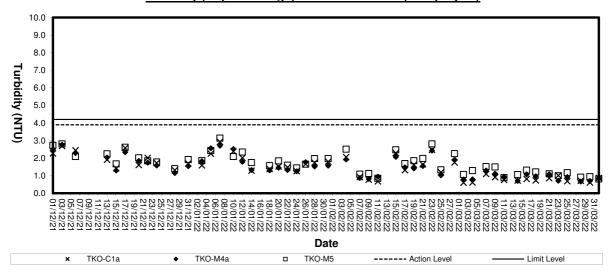


Dissolved Oxygen (Bottom) at Mid-Ebb Tide (3RS project)

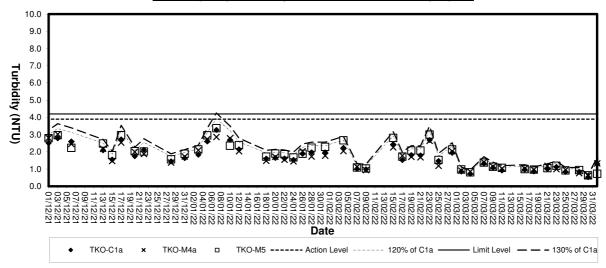




Turbidity (Depth-average) at Mid-Flood Tide (3RS project)

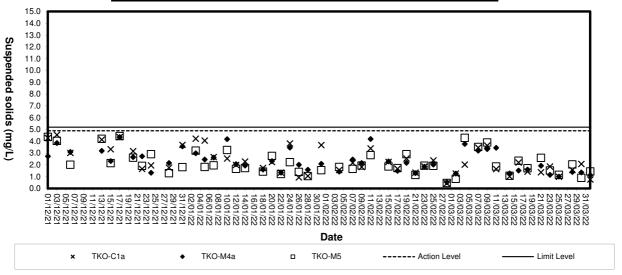


Turbidity(Depth-average) at Mid-Ebb Tide (3RS project)

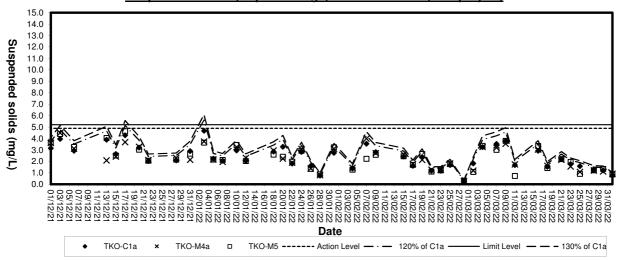




Suspended solids (Depth-average) at Mid-Flood Tide (3RS project)



Suspended Solids (Depth-average) at Mid-Ebb 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/m³	Limit Level, µg/m³
A1	376	500
A2	316	500

Action and Limit Levels for 24-Hour TSP

Location	Action Level, µg/m³	Limit Level, µg/m3
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%-life of baseline data) Bottom 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)	SS > 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-everaged)	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+	Surface & Middle↔ <4.00 mg/L (1%-ile of baseline data) ↔ Bottom↔ <2.00 mg/L↔
SS (mg/L) + (Depth- averaged)+	>4.9 mg/L or >120% of the upstream control station's SS at the same tide on the same day.	>5.2 mg/L or >130% of the upstream control station's SS at the same tide on the same day₽
Turbidity (NTU) (Depth- averaged)∂	>3.9NTU or >120% of the upstream control station's turbidity at the same tide on the same day.	>4.2 NTU or >130% of the upstream control station's turbidity at the same tide on the same day₽



F

Event-Action Plans

		٠٠,٠٠٠	_			Т	
	Contractor		Rectify any unacceptable		actions to IC(E) within 3 working days of notification 2. Implement the agreed proposals 3. Amend proposal if appropriate		1. Take Immediate action to avoid further exceedance 2. Submit proposals for remedial actions to IC(E) within 3 working days of notification 3. Implement the agreed proposals 4. Amend proposal if appropriate.
	-	-	-			-	
ITY EXCEEDANCE	Cu		A STATE OF THE PROPERTY OF	. Nouity Confector	1. Confirm receipt of notinication of failure in writing 2. Notify the Contractor 3. Ensure remedial measures property implemented		Confirm receipt of notification of faiture in writing Notify the Contractor Ensure remedial measures properly implemented
UAL	 	\dashv			H 90	İ	E E
EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE	ACTION	IQE)	ACTION LEVEL	Check monitoring data submitted by the El	Check monitoring data submitted by the ET Leader Check the Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise the ER on the effectiveness of the proposed remedial measures Supervise implementation of remedial measures	LIMIT LEVEL	Check monitoring data submitted by the ET Leader Check Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise the ER on the effectiveness of the proposed remedial measures Supervise implementation of remedial measures
盃		\Box		- ' ' ' '	+ 52 4 6	'	ન બંધ, 4, ત્યું
		ET Leader		Identify source, investigate the causes of exceedance and propose remedial measures. Inform ER, IC(E) and Contractor. Repeat measurement to confirm finding. Increase monitoring frequency to daily	Identify source, investigate the causes of exceedance and propose remedial measures. Inform IC(E) and Contractor. Repeat measurements to confirm finding. Increase monitoring frequency to daily increase monitoring frequency to daily semedial actions. If exceedance continues, arrange meeting with IC(E) and ER. If exceedance stops, cease additional monitoring.		1. Identify source, investigate the causes of exceedance and propose remedial measures. 2. Inform ER, Contractor and EPD 3. Repeat measurement to confirm finding. 4. Increase monitoring frequency to daily norease the effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results.
-				+ 4 4 + + + + + + + + + + + + + + + + +		-	
EVENT				1. Exceedance for one sample	2. Exceedance for two or more consecutive samples		1. Exceedance for one sample
			<u>1</u>	<u> </u>	<u> </u>	_	<u> </u>

EVENT		EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE	ALITY EXCEEDANCE	
		ACTION		
	ET Leader	(C(E)	ER	Contractor
2. Exceedance	1. Identify source, investigate the causes	s 1. Discuss amongst ER, ET and Contractor on	1. Confirm receipt of notification	 Take Immediate action to
for two or	of exceedance and propose remedial		of fallure in writing	avoid further exceedances
толе	measures	2. Review Contractor's remedial actions	2. Notify Contractor	2. Submit proposals for remedial
consecutive	2. Notify IC(E), ER, EPD and Contractor		3. In consultation with the IC(E),	actions to IC(E) within 3
selumes	3. Repeat measurement to confirm	effectiveness and advise the ER accordingly	agree with the Contractor on	working days of notification
	finding	3. Supervise the implementation of remedial	the remedial measures to be	Implement the agreed
	4. Increase monitoring frequency to daily		implemented	proposals
	_		4. Ensure remedial measures	 Resubmit proposals if
	5		are property implemented	problem still not under control
	possible mitigation to be implemented		5. If exceedances continues,	Stop the relevant activity of
	6. Arrange meeting with IC(E) and ER to		consider what portion of the	works as determined by the
	_		work is responsible and	ER until the exceedance is
	taken		instruct the Contractor to stop	abated
	7. Assess effectiveness of Contractor's		that portion of work until the	•
	remedial actions and keep IC(E), EPD	· ·	exceedance is abated	
· .	and ER informed of the results			
•	8. If exceedance stops, cease additional			
	monitoring			

				EVENT/ACTION PLAN FOR NOISE EXCEEDANCE	Z	OISE EXCEEDANCE			
EVENT				ACTION	z				
		ET Leader		IC(E)		ER		Contractor	_
Action Level	<u></u> .	Notify the Carry ou Report the Report the IC(E) Discuss formulate Increase check mi	- 3 €	Review the analysed results submitted by the ET. Review the proposed remedial measures by the Contractor and advise the ER accordingly. Supervise the implementation of remedial measures.	ન જુણ 4	Confirm receipt of notification of failure in writing. Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. Ensure remedial measures are properly implemented.	7.	Submit noise mitigation proposals to IC(E). Implement noise mitigation proposals.	
Limit	<u>+-</u>	Notify the IC(E), the ER, the EPD	~-	Discuss amongst the ER, the ET	-	Confirm receipt of notification of	.	Take immediate action to avoid	
Level	_			Leader and the Contractor on the	c	Tallure in Writing.	0	Ruffier exceedance Submit proposals for remedial	_
	vi (,	potential refriedral actions.	4 0	Doming the Contractor to prepage	i	actions to IC/El within 3	
,			'n	Review the Contractor's remedial	ń	Require the Contactor to propose			
badgan,		findings.				remedial measures for the		working days of nottalcation.	_
	4.	Increase monitoring frequency.		assure their effectiveness and		analysed noise problem.	က်	Implement the agreed	
	က်	Carry out analysis of Contractor's		advise the ER accordingly.	4.	Ensure remedial measures are		proposals.	
		working procedures to determine	લ	Supervise the Implementation of		properly implemented.	4	Resubmit proposals if problem	
** 1 -p=		possible mitigation to be		remedial measures.	က်	If exceedances continue, consider	ı	still not under control.	
-		_				what activity of the work is	က်	Stop the relevant activity of	
	ø.					responsible and instruct the		works as determined by the ER	_
		EPD the causes & actions taken for				Contractor to stop that activity of		until the exceedances is	•
	(), ()	the exceedances.				work until the exceedances is		abaled.	
	۲.	Assess effectiveness of				abated.			
		Contractor's remedial actions and				-			
		keep the IC(E), the EPD and the			. <u>.</u>			-	
		ER informed of the results							
	ထ	If exceedance due to the			···				-
		construction works stops, cease							
		additional monitoring			╛				7

Event		EVEN	TA	EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE	ATI	ER QUALITY EXCEEDANC	Щ	
				ACTION	z			
		ET Leader		Contractor		ER		EC
Action level	-	Identify source(s) of impact:	-	Notify the ER and IEC in writing	1,	Notify EPD and other relevant	 :	Check monitoring data
heing exceeded	~	Repeat in-situ measurement to		within 24 hours of identification of		governmental agencies in writing		submitted by ET
hy one	i	confirm findings:		exceedance	_	within 24 hours of the	2.	Confirm ET assessment if
sampling day	۲.	_	2	Rectify unacceptable practice;		identification of the exceedance		exceedance is due / not due
for Rundings	5		e,	Check all plant and equipment;	7	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			and ER within 3 working days of		mitigation measures;		Contractor on the mitigation
	:			the identification of an	د .	Require contractor to propose		measures
		working methods:		exceedance		remedial measures for the	4	Review contractor's
	LC.		ហ៍	Consider changes of working		analysed problem if related to the		mitigation measures
	œ			method if exceedance is due to		construction works		whenever necessary to
	<u> </u>	_		the construction works	4	Ensure remedial measures are		ensure their effectiveness
		days of identification of	မှ	Discuss with ET, IEC and ER and		property implemented		and advise the ER
		exceedance and advise			က်	Assess the effectiveness of the		
		contractor if exceedance is due to		IEC and ER if exceedance is due		mitigation measure	ശ്	
		contractor's construction works		to the construction works within 4				implementation of mitigation
	۲.			working days of identification of	_			measures ·
دو .		Contractor if exceedance is due		an exceedance				
		to the construction works within 4	۲.	Implement the agreed mitigation				
		working days		measures within reasonable time				
	ထ	Repeat measurement on next day		scale				
		of exceedance if exceedance is					_	
		due to the construction works	_		_			

Event			Ш	EVENT AND ACTION PLAN FOR WATER QUALITY	6	R WATER QUALITY		
				ACTION	×			
		ET Leader		Contractor		ER		SEC
Action level	÷	Identify source(s) of impact;	1.	Notify IEC and ER in writing	÷	Notify EPD and other relevant	- -	Check monitoring data
being	٦i	Repeat in-situ measurement		within 24 hours of		governmental agencies in		
exceeded by		to confirm findings		identification of exceedance		writing within 24 hours of the	તં	-
more than one	က်	Notify Contractor in writing	2	Rectify unacceptable practice;		identification of the		if exceedance is due /
consecutive		within 24 hours of	က	Check all plant and		exceedance		not due to the works
sampling days		identification		equipment;	7	Discuss with IEC, ET and	<i>ω</i>	
	4.	Check monitoring data, all	4	Consider changes of working		Contractor on the proposed		Contractor on the
		plant, equipment and		methods;		mitigation measures;		mitigation measures.
		Contractor's working methods;	က်	Submit the results of the	က	Require contractor to propose	4	Review contractor's
	ĸ	Carry out investigation		investigation to IEC and ER		remedial measures for the	_	mitigation measures
	6	Report the results of		within 3 working days of the		analysed problem if related to		whenever necessary to
		investigation to the Contractor		Identification of an		the construction works		ensure their
		within 3 working days of		exceedance	4.	Ensure remedial measures		effectiveness and advise
		identification of exceedance	9	Discuss with ET, IEC and ER		are properly implemented		
		and advise contractor if		and propose mitigation	က်	Assess the effectiveness of	က်	
		exceedance is due to		measures to IEC and ER		the mitigation measure		of the implemented
		contractor's construction		within 4 working days of				mitigation measures.
		works		identification of an				
<u> </u>	۲.	Discuss mitigation measures		exceedance				
		with IEC and Contractor within	۲.	Implement the agreed				
		4 working of identification of		mitigation measures within				
••••		an exceedance		reasonable time scale				
-	တ်	Ensure mitigation measures						
		are implemented;						
··	တ်	Prepare to increase the						
		monitoring frequency to daily;						
	<u>ö</u>							
	_	day of exceedance.	_		_			

Event		EVENT AND	ĭ≚		'ATE	ACTION PLAN FOR WATER QUALITY EXCEEDANCE	ш		
	_			ACTION	Z				
···		ET Leader		Contractor		ER]	IEC	<u> </u>
Limit level	F	Repeat in-situ measurement	-	Notify IEC and ER in writing;	<u></u>	Notify EPD and other relevant	⇌	Check monitoring data	
heind		to confirm findings:		within 24 hours of the		governmental agencies in		submitted by ET	
exceeded by	7	_		identification of the		writing within 24 hours of	2	Confirm ET assessment	
one sampling	٣.			exceedance		identification of exceedance		if exceedance is due /	
Sunday Neb	<u> </u>	_	2	Rectify unacceptable practice;	%	Discuss with IEC, ET and		not due to the works	
6		identification of the	က	Check all plant and		Contractor on the proposed	က်	Discuss with ET, ER and	
		exceedance		equipment:		mitigation measures;		Contractor on the	
	4	_	4	Consider changes of working	က်	Request Contractor to critically		mitigation measures.	
		_		methods;		review the working methods;	4	Review proposals on	
		Contractor's working methods:	ις	Submit the results of the	4	Ensure remedial measures		mitigation measures	_
	ις	_		investigation to IEC and ER		are properly implemented		submitted by Contractor	
	<u> </u>	_		within 3 working days of the	က်	Assess the effectiveness of	_	and advise the ER	
·	<u> </u>			identification of an		the implemented mitigation			"
		within 3 working days of		exceedance		measures.	ശ്		ori.
		identification of exceedance	ဖ်					of the implemented	
		and advise contractor if		and propose mitigation				mitigation measures	
		exceedance is due to		measures to IEC and ER					
		contractor's construction		within 4 working days of the					
. **		works		identification of an					
	۲.		-	exceedance			_		
		with IEC, ER and Contractor	<u>~</u>	implement the agreed					
		within 4 working of		mitigation measures within			_ _ _		
		identification of an		reasonable time scale					
		exceedance							
	<u>∞</u>	. Ensure mitigation measures							
		are implemented;							
	ക്								
		frequency to daily until no							
	_	exceedance of Limit Level.			_		_		7

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Event		EVEN	۲	ND ACTION PLAN FOR WA	/ATE	EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE	ш	
·— ·	<u></u>			ACTION	ž		- [
-12		ET Leader		Contractor		ER		EC
Limit Level	<u> </u> -	Repeat in-situ measurement	Ŀ	Notify ER and IEC in writing	<u>-</u>	Notify EPD and other relevant	.	Check monitoring data
peind		to confirm findings;		within 24 hours of the		governmental agencies in	_	submitted by ET
exceeded by	2			Identification of the		writing within 24 hours of	તાં	Confirm ET assessment
more than one	က			exceedance and		identification of exceedance		if exceedance is due /
consecutive	_	within 24 hours of	2	Rectify unacceptable practice;	તં	Discuss with IEC, ET and	_	not due to the works
sampling days		identification of the	က	Check all plant and		Contractor on the proposed	က	Discuss with ER, ET and
		exceedance		equipment;		mitigation measures;		Confractor on the
	4	Check monitoring data, all	4	Consider changes of working	ઌ૽	Request Contractor to critically		mitigation measures.
		plant, equipment and		methods;		review the working methods;	4.	Review proposals on
	_	Contractor's working methods;	89	Submit the results of the	တ်	Ensure remedial measures		mitigation measures
	<u>۔۔۔</u> پی	_		investigation to IEC and ER		are properly implemented		submitted by Contractor
	Ó			within 3 working days of the	4	Assess the effectiveness of		and advise the ER
		investigation to the Contractor		identification of an		the implemented mitigation	١	accordingly.
		within 3 working days of		exceedance		measures;	က်	Assess the effectiveness
		identification of exceedance	က်	Discuss with ET, IEC and ER	က်	Consider and instruct, if		of the implemented
*****		and advise contractor if		and propose mitigation	<u></u>	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	ဖ	Implement the agreed		exceedance of Limit Level.		
	۲.	Discuss mitigation measures		mitigation measures within				
		with IEC, ER and Contractor;		reasonable time scale				
-	ထ		۲-	As directed by the Engineer,				
		are implemented;		to slow down or to stop all or				
	တ်	Increase the monitoring		part of the marine work or				
		frequency to daily until no		construction actives.				
		exceedance of Limit Level for						
		two consecutive days.	_[_[



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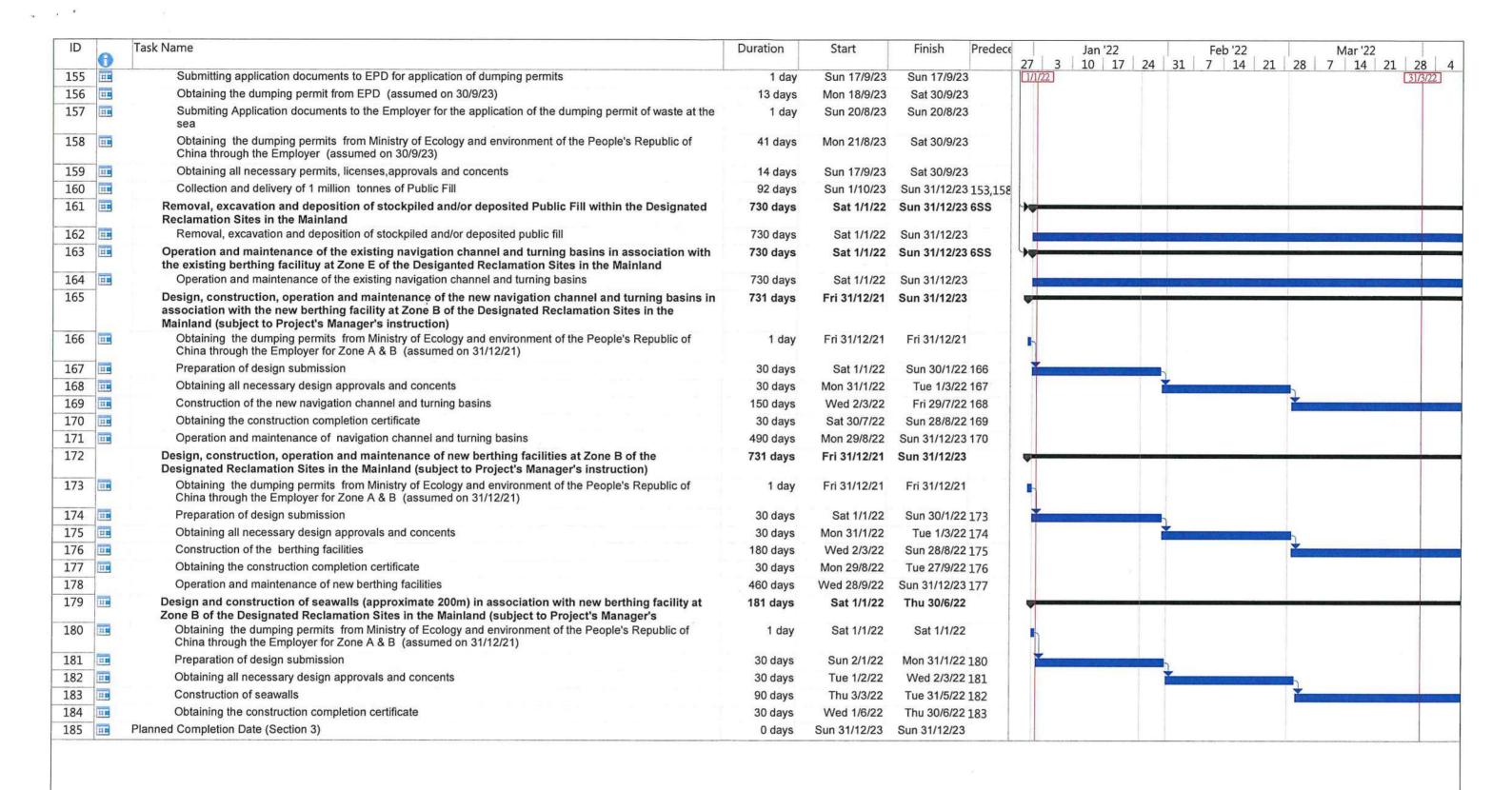
Work Programme

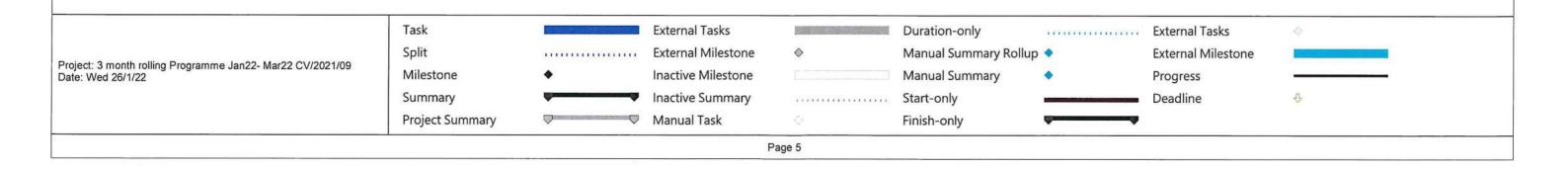
ID 🔒	Task Name				Duration	Start	Finish Pre	edece 27	Jan '		Feb '22	Mar '22 1 28 7 14	
1	Contract duration of Contract CV/2021/9				730 days	Sat 1/1/22	Sun 31/12/23	1/1/.		17 24 31	7 17 2	1 20 7 14	31/3/22
2	Contract date, Date of the Letter of Acc	ceptance (assumed)				Mon 20/12/21		12/20	21				
3	Starting Date of the Works				0 days	Sat 1/1/22	Sat 1/1/22		1/1/2022				
4	Starting Date of Section 1 of the Works				0 days	Sat 1/1/22	Sat 1/1/22	~	1/1/2022				
5	Starting Date of Section 2 of the Works				0 days	Sat 1/1/22	Sat 1/1/22		1/1/2022				-
6	Starting Date of Section 3 of the Works				0 days	Sat 1/1/22	Sat 1/1/22	•	1/1/2022				
7	Date for Completion of the Works				0 days	Sun 31/12/23	Sun 31/12/23						× 1
8	Completion Date of Section 1 of the Works				0 days	Sun 31/12/23	Sun 31/12/23						
9	Completion Date of Section 2 of the Works				0 days	Sun 31/12/23	Sun 31/12/23						
10	Completion Date of Section 3 of the Works				0 days	Sun 31/12/23	Sun 31/12/23						
11	Planned completion dates				0 days	Sun 31/12/23	Sun 31/12/23						
12	Planned competion date of Section 1				0 days	Sun 31/12/23	Sun 31/12/23						
13	Planned competion date of Section 2				0 days	Sun 31/12/23	Sun 31/12/23						
14	Planned competion date of Section 3				0 days	Sun 31/12/23	Sun 31/12/23						
15	Access Date of the Site				0 days	Sat 1/1/22	Sat 1/1/22	•	1/1/2022				
16 🚟 🕰	Portion A2, A3a, A3b, A3c, A4, A5a, A5b, A7c2	, A10 and A11 (within 60 da	ays after starting date)		0 days	Sat 1/1/22	Sat 1/1/22	•	1/1/2022				
17	Portion B1, B3, B6a, B6b and B7 (within 60 day	s after starting date)			0 days	Sat 1/1/22	Sat 1/1/22		1/1/2022				
18	Portion A1. A7a, A7b, A7c1, A9, A9a and B6c (7 day's advance notice after	er starting date)		0 days	Sat 1/1/22	Sat 1/1/22		1/1/2022				
19	Portion B6c (7 day's advance notice after starting	ng date)			0 days	Sat 1/1/22	Sat 1/1/22	•	1/1/2022				
20	Hand back of the Site				0 days	Sun 31/12/23	Sun 31/12/23						
_	Portion A2, A3a, A3b, A3c, A4, A5a, A7c2, A10 30 days' advance notice)				0 days	Sun 31/12/23						1	
	Portion A1, A7b, A7c1, A9 and A9a (or at an ea notice)				0 days	Sun 31/12/23							
23	Portion B1, B3, B6a, B6b and B7 (or at an earlie notice)	er date as notified by the Pi	roject Manager with 30	days' advance	0 days	Sun 31/12/23	Sun 31/12/23						
24	Portion B6c (or at an earlier date as notified by	the Project Manager with 3	0 days' advance notice	e)	0 days	Sun 31/12/23	Sun 31/12/23						
25	Section 1 of the Works - Tseung Kwan C				730 days	Sat 1/1/22	Sun 31/12/23 4S	s				_	
26 ===	Taking over the existing facilities at the Tseu	ng Kwan O Area 137 Fill B	ank within Portion A of	the Site	0 days	Sat 1/1/22	Sat 1/1/22 4S	S	1/1/2022				
27	Operation of the the Tseung Kwan O Area 13	37 Fill Bank within Portion A	A of the Site		730 days	Sat 1/1/22	Sun 31/12/23 268	SS					
28	Operation and maintenance of the surveilland	ce system witin Portion A o	f the Site		730 days	Sat 1/1/22	Sun 31/12/23 268	SS	NT PARTIES		STORING IN		
29	A of the Site				730 days	Sat 1/1/22	Sun 31/12/23 268	SS					
30	Provision, operation and maintenance of the Portion A of the Site				730 days		Sun 31/12/23 268		D'EVA PLA				
31	Operation and maintenance of the dewaterin the Site.	•			730 days		Sun 31/12/23 265						
32	137 Fill Bank within Portion A of the Site				730 days	Sat 1/1/22							
33	Handing over the facilities at the Tseung Kwa	an O Area 137 Fill Bank wit	nin Portion A of the Si	te to the Employer	0 days	Sun 31/12/23		8					
34 🔢	Planned Completion Date (Section 1)				0 days								2
35	Section 2 of the Works - Tuen Mun Area				730 days		Sun 31/12/23		4 /4 /0000				
36	Taking over the existing facilities at the Tuen			9	0 days	Sat 1/1/22	Sat 1/1/22 5SS		1/1/2022				
37	Operation of the Tuen Mun Area 38 Fill Bank				730 days		Sun 31/12/23 5SS						
38	Operation and maintenance of the surveilland				730 days	Sat 1/1/22					STATISTICS.	Chicago San Ann	
39	Operation and maintenance of the existing tip Site	oping halls at the Tuen Mur	n Area 38 Fill Bank wit	nin Portion B of the	730 days	Sat 1/1/22	Sun 31/12/23 5SS	5	- Sept. 34	A STATE OF THE LOCAL PROPERTY OF THE PARTY O			
40 🛅	Operation and Maintenance of the Crushing I	Plant at the Tuen Mun Area	38 Fill Bank within Po	ortion B of the Site	730 days	Sat 1/1/22	Sun 31/12/23 5SS	s	The Filt City				ASIA STATES
41	Operation and maintemnance of glass cullet Portion B of the Site				730 days		Sun 31/12/23 5SS						
		Task		External Tasks		Du	ration-only	THEFT		External Tasks	0		
		Split		External Milestone	\Diamond	Ma	nual Summary Rol	llup 🔷		External Milest	one		
roject: 3 montate: Wed 26/	h rolling Programme Jan22- Mar22 CV/2021/09	Milestone	•	Inactive Milestone			nual Summary	•		Progress	4		
ate. vveu 20/	1144	voor								Deadline	J.		
		Summary	Y	Inactive Summary			rt-only			Deadline	~		
		Project Summary		Manual Task	0	Fin	ish-only	-	The second second second second				

ID 🔐	Task Name				Duration	Start	Finish Pre		Jan '22 Fe 10 17 24 31 7	b '22	Mar '22 7 14 21 28
42	Handing over the facilities at the Tuen Mun	Area 38 Fill Bank within Por	tion B of the Site to th	e Employer	0 days	Sun 31/12/23	Sun 31/12/23 9SS	1/1/22	10 17 24 31 7	14 21 28	14 21 28 31/3/22
43	Planned Completion Date (Section 2)				0 days	Sun 31/12/23	Sun 31/12/23				
44	Section 3 of the Works - Designated Re	clamation Sites in the M	Mainland			Mon 20/12/21	Sun 31/12/23				
45	Collection and delivery of 2 million tonne Bank and the Tuen Mun Area 38 Fill Bank	es of Public Fill by vessels	from Tseung Kwan		742 days	Mon 20/12/21	Sun 31/12/23				
46 🎹	1st quarter of first year				102 days	Mon 20/12/21	Thu 31/3/22				
47	Installing Front End Mobile Unit (FEMI	U) onto the proposed vessel	s		7 days	Mon 20/12/21	Sun 26/12/21				
48	Submitting application documents to E	EPD for application of dumpi	ng permits		1 day	Mon 20/12/21	Mon 20/12/21				
49	Obtaining the dumping permit from EF	D (assumed on 31/12/21)			11 days	Tue 21/12/21	Fri 31/12/21 48				
50	Submitting Application documents to t sea	he Employer for the applica	tion of the dumping pe	ermit of waste at the	1 day	Mon 20/12/21	Mon 20/12/21				
51	Obtaining the dumping permits from China through the Employer (assume	d on 31/12/21)	====	e's Republic of	11 days	Tue 21/12/21	Fri 31/12/21 50				
52	Obtaining all necessary permits, licens				12 days	Mon 20/12/21	Fri 31/12/21				
53	Collection and delivery of 250000 tonn	nes of Public Fill			90 days	Sat 1/1/22	Thu 31/3/22 51,4	9,52			
54	2nd quarter of first year	'DD (134 days	Thu 17/2/22	Thu 30/6/22			•	
55	Submitting application documents to E		ng permits		1 day	Fri 18/3/22	Fri 18/3/22				l)
56	Obtaining the dumping permit from EP				13 days	Sat 19/3/22	Thu 31/3/22 55				
57	Submitting Application documents to ti				1 day	Thu 17/2/22	Thu 17/2/22			1	
58	Obtaining the dumping permits from the China through the Employer			e's Republic of	41 days	Fri 18/2/22	Wed 30/3/22 57			MEMBURES	
59	Obtaining all necessary permits, licens				14 days	Fri 18/3/22	Thu 31/3/22				
60	Collection and delivery of 250000 tonn	ies of Public Fill			91 days	Fri 1/4/22	Thu 30/6/22 53,5	9,58			
61	3rd quarter of first year	'DD (litif 1i			134 days	Fri 20/5/22	Fri 30/9/22				
62	Submitting application documents to E		ng permits		1 day	Fri 17/6/22	Fri 17/6/22				
63	Obtaining the dumping permit from EP		ilan af tha diisanina na		13 days	Sat 18/6/22	Thu 30/6/22 62				
64	Submitting Application documents to the sea				1 day	Fri 20/5/22	Fri 20/5/22				
65	Obtaining the dumping permits from I China through the Employer			s Republic of	41 days	Sat 21/5/22	Thu 30/6/22 64				
66	Obtaining all necessary permits, licens				14 days	Fri 17/6/22	Thu 30/6/22				
67	Collection and delivery of 250000 tonn	les of Public Fill			92 days	Fri 1/7/22	Fri 30/9/22 60,6	5,6:			
68	4th quarter of first year Submitting application documents to E	DD for application of dumpi	na normita		134 days	Sat 20/8/22	Sat 31/12/22				
69	Obtaining the dumping permit from EP		ng permits		1 day	Sat 17/9/22	Sat 17/9/22				
70 ==	Submitting Application documents to the		on of the dumping per	mit of waste at the	13 days 1 day	Sun 18/9/22 Sat 20/8/22	Fri 30/9/22 69 Sat 20/8/22				
72	sea Obtaining the dumping permits from I				41 days	Sun 21/8/22	Fri 30/9/22 71				
73	China through the Employer (assumed Obtaining all necessary permits, licens	I on 30/9/22)		•	14 days	Sat 17/9/22	Fri 30/9/22				
74	Collection and delivery of 250000 tonn				92 days	Sat 1/10/22	Sat 31/12/22 67,7	3.7:			
75	1st quarter of second year				132 days	Sun 20/11/22	Fri 31/3/23				
76 🛅	Submitting application documents to E	PD for application of dumnir	na permits		1 day	Sun 18/12/22	Sun 18/12/22				
77	Obtaining the dumping permit from EP		-3 Politiko		13 days	Mon 19/12/22	Sat 31/12/22 76				
78 ==	Submitting Application documents to the sea		on of the dumping per	mit of waste at the	1 day	Sun 20/11/22	Sun 20/11/22				
79	Obtaining the dumping permits from N China through the Employer	Ministry of Ecology and envi	ronment of the People	's Republic of	41 days	Mon 21/11/22	Sat 31/12/22 78				
		Task		External Tasks		Dui	ation-only		External Tasks	0	
		Split		External Milestone	♦	Ma	nual Summary Roll	ір 🔷	External Milestone		
roject: 3 month	rolling Programme Jan22- Mar22 CV/2021/09	Milestone	•	Inactive Milestone			nual Summary	•	Progress		_
7700 £0/ II		Summary	-	Inactive Summary			t-only		■ Deadline	T.	
		Project Summary		Manual Task			sh-only		-		
						1.0.0		1.4			

ID 🚹	Т	ask Name				Duration	Start	Finish	Predece	27 3	Jan '22		21	Feb '22 7 14 2	1 29	Mar '22	21 28
80		Obtaining all necessary permits, licens	es,approvals and concents	3		14 days	Sun 18/12/22	Sat 31/12/22	2	1/1/22	10 1	., 24	31	, 14 Z	20	/ 14 ,	31/3/22
81		Collection and delivery of 250000 tonn	nes of Public Fill			90 days	Sun 1/1/23	Fri 31/3/2:	3 74,80,79								
82		2nd quarter of second year				133 days	Sat 18/2/23	Fri 30/6/2	3.55								
83	400	Submitting application documents to El	PD for application of dump	ing permits		1 day	Sat 18/3/23	Sat 18/3/2									
84		Obtaining the dumping permit from EPI		•		13 days	Sun 19/3/23	Fri 31/3/2									
85		Submiting Application documents to the sea	TO CO TO THE PROPERTY OF THE P	tion of the dumping pe	rmit of waste at the	1 day	Sat 18/2/23	Sat 18/2/2									
86		Obtaining the dumping permits from M China through the Employer (assumed	Ministry of Ecology and envidence on 31/3/23)	rironment of the People	e's Republic of	41 days	Sun 19/2/23	Fri 31/3/2	3 85								
87 🎹		Obtaining all necessary permits, license	es,approvals and concents	3		14 days	Sat 18/3/23	Fri 31/3/23	3								
88		Collection and delivery of 250000 tonn	nes of Public Fill			91 days	Sat 1/4/23	Fri 30/6/23	3 81,84,80						1		
89		3rd quarter of second year				134 days	Sat 20/5/23	Sat 30/9/23	3								
90 🚎		Submitting application documents to El	PD for application of dump	ing permits		1 day	Sat 17/6/23	Sat 17/6/23	3								
91		Obtaining the dumping permit from EPI				13 days	Sun 18/6/23	Fri 30/6/23									
92		Submiting Application documents to the		tion of the dumping pe	rmit of waste at the	1 day	Sat 20/5/23	Sat 20/5/23									
93		sea Obtaining the dumping permits from N				41 days	Sun 21/5/23	Fri 30/6/23									
		China through the Employer (assumed		2. шо , оори		, 5	-3 2		52								
94 🔢		Obtaining all necessary permits, license	es,approvals and concents			14 days	Sat 17/6/23	Fri 30/6/23	3	-							
95 🗰		Collection and delivery of 250000 tonn	nes of Public Fill			92 days	Sat 1/7/23	Sat 30/9/23	88,94,9								
96		4th quarter of second year				134 days	Sun 20/8/23	Sun 31/12/23	3	k							
97 ==		Submitting application documents to Ef	PD for application of dump	ing permits		1 day	Sun 17/9/23	Sun 17/9/23	3								
98		Obtaining the dumping permit from EPI				13 days	Mon 18/9/23	Sat 30/9/23									
99 🛅		Submiting Application documents to the sea		ion of the dumping pe	rmit of waste at the	1 day	Sun 20/8/23	Sun 20/8/23									
100		Obtaining the dumping permits from N China through the Employer(assumed of		ironment of the People	e's Republic of	41 days	Mon 21/8/23	Sat 30/9/23	3 99								
101		Obtaining all necessary permits, license	es,approvals and concents			14 days	Sun 17/9/23	Sat 30/9/23	3								
102		Collection and delivery of 250000 tonn	es of Public Fill			92 days	Sun 1/10/23	Sun 31/12/23	95,101,								
103		Collection and delivery of 8 million tonnes Bank and the Tuen Mun Area 38 Fill Bank to Project's Manager's instruction)				742 days	Mon 20/12/21	Sun 31/12/23	-		7210-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-						
104		1st quarter of first year				102 days	Mon 20/12/21	Thu 31/3/22	_								
105		Installing Front End Mobile Unit (FEMU) onto the proposed vesse	Is		7 days	Mon 20/12/21	Sun 26/12/21									Ĭ
106		Submitting application documents to EF				1 day	Mon 20/12/21	Mon 20/12/21									
107		Obtaining the dumping permit from EPE		3 1		11 days	Tue 21/12/21	Fri 31/12/21									
108		Submiting Application documents to the sea		ion of the dumping per	mit of waste at the	1 day		Mon 20/12/21									
109 🔠		Obtaining the dumping permits from M China through the Employer (assumed	linistry of Ecology and env	ironment of the People	e's Republic of	11 days	Tue 21/12/21	Fri 31/12/21	108	-							
110		Obtaining all necessary permits, license				12 days	Mon 20/12/21	Fri 31/12/21									
111		Collection and delivery of 1 million tonn				90 days	Sat 1/1/22	Thu 31/3/22			U (1/1/2-1/1-1/1-1/1-1/1-1/1-1/1-1/1-1/1-1/						
112		2nd quarter of first year				134 days	Thu 17/2/22	Thu 30/6/22		1							
113		Submitting application documents to EF	PD for application of dumni	na permits		1 day	Fri 18/3/22	Fri 18/3/22									
114		Obtaining the dumping permit from EPE	The transfer of the second of	3 Farming		13 days	Sat 19/3/22	Thu 31/3/22								1	
115		Submiting Application documents to the sea		ion of the dumping per	mit of waste at the	1 day	Thu 17/2/22	Thu 17/2/22	722022					-			
116		Obtaining the dumping permits from M China through the Employer	finistry of Ecology and envi	ironment of the People	s's Republic of	41 days	Fri 18/2/22	Wed 30/3/22	115								
		100.000	Task	be experienced	External Tasks		Dur	ation-only	4.1		E	xternal 1	Γasks	0			
			Split		External Milestone	♦	Mai	nual Summary	Rollup 🔷		Е	xternal N	Mileston	e			
Project: 3 m Date: Wed 2		olling Programme Jan22- Mar22 CV/2021/09 2	Milestone	•	Inactive Milestone			nual Summary				rogress					
			Summary		Inactive Summary	1242111	Star	rt-only	-	90 32 3		Deadline		₽.			
			Project Summary	\triangleright	Manual Task	ф		sh-only				cadillic		Y			
						Page 3									-		

ID	A	Task Name				Duration	Start	Finish Predece			eb '22	Mar '22
117		Obtaining all necessary permits, licen	nses,approvals and concent	ts		14 days	Fri 18/3/22	Thu 31/3/22	27 3 10	1/ 24 31 7	14 21	28 7 14 21 28
		Collection and delivery of 1million ton	20 NO.			91 days	Fri 1/4/22	Thu 30/6/22 117,116				3113122
119	-	3rd quarter of first year				134 days	Fri 20/5/22	Fri 30/9/22				
120	100	Submitting application documents to	EPD for application of dum	ping permits		1 day	Fri 17/6/22	Fri 17/6/22				
121		Obtaining the dumping permit from E		- S P - · · · · · ·		13 days	Sat 18/6/22	Thu 30/6/22 120				
122		Submiting Application documents to t	to the state of th	ation of the dumping perm	it of waste at the	1 day	Fri 20/5/22	Fri 20/5/22				
123	III	Obtaining the dumping permits from China through the Employer	Ministry of Ecology and en	vironment of the People's	Republic of	41 days	Sat 21/5/22	Thu 30/6/22 122				
124		Obtaining all necessary permits, licen	ses,approvals and concent	S		14 days	Fri 17/6/22	Thu 30/6/22				
125	THE STATE OF	Collection and delivery of 1million ton				92 days	Fri 1/7/22	Fri 30/9/22 121,124				
126		4th quarter of first year				134 days	Sat 20/8/22	Sat 31/12/22				
127		Submitting application documents to	EPD for application of dump	oing permits		1 day	Sat 17/9/22	Sat 17/9/22				
128		Obtaining the dumping permit from El				13 days	Sun 18/9/22	Fri 30/9/22 127				
129		Submiting Application documents to t sea	the Employer for the applica	ation of the dumping perm	it of waste at the	1 day	Sat 20/8/22	Sat 20/8/22				
130		Obtaining the dumping permits from China through the Employer (assume		vironment of the People's	Republic of	41 days	Sun 21/8/22	Fri 30/9/22 129				
131	H	Obtaining all necessary permits, licen		S		14 days	Sat 17/9/22	Fri 30/9/22				
132		Collection and delivery of 1 million tor				92 days	Sat 1/10/22	Sat 31/12/22 131,125				
133	-	1st quarter of second year				132 days	Sun 20/11/22	Fri 31/3/23				
134	THE STATE OF	Submitting application documents to I	EPD for application of dump	oing permits		1 day	Sun 18/12/22	Sun 18/12/22				
		Obtaining the dumping permit from El		•		13 days	Mon 19/12/22	Sat 31/12/22 134				
	H	Submiting Application documents to t sea			it of waste at the	1 day		Sun 20/11/22	4			
137		Obtaining the dumping permits from China through the Employer	Ministry of Ecology and en	vironment of the People's	Republic of	41 days	Mon 21/11/22	Sat 31/12/22 136				
138	TIE	Obtaining all necessary permits, licen	ses,approvals and concent	S		14 days	Sun 18/12/22	Sat 31/12/22				
		Collection and delivery of 1 million to				90 days	Sun 1/1/23	Fri 31/3/23 132,138				
140		2nd quarter of second year				133 days	Sat 18/2/23	Fri 30/6/23				
141		Submitting application documents to I	EPD for application of dump	oing permits		1 day	Sat 18/3/23	Sat 18/3/23				
142	=	Obtaining the dumping permit from EF	PD (assumed on 31/3/23)			13 days	Sun 19/3/23	Fri 31/3/23	1			
143	ne ne	Submiting Application documents to the sea	he Employer for the applica	tion of the dumping perm	t of waste at the	1 day	Sat 18/2/23	Sat 18/2/23				
144	=	Obtaining the dumping permits from China through the Employer	Ministry of Ecology and en	vironment of the People's	Republic of	41 days	Sun 19/2/23	Fri 31/3/23				
145		Obtaining all necessary permits, licen	ses,approvals and concents	S		14 days	Sat 18/3/23	Fri 31/3/23				
146	H	Collection and delivery of 1 million ton	The production of the second contract of the			91 days	Sat 1/4/23	Fri 30/6/23 139,145				
147		3rd quarter of second year				134 days	Sat 20/5/23	Sat 30/9/23				
	HE	Submitting application documents to E	EPD for application of dump	ing permits		1 day	Sat 17/6/23	Sat 17/6/23				
149		Obtaining the dumping permit from EF	PD (assumed on 30/6/23)	532.57		13 days	Sun 18/6/23	Fri 30/6/23				
		Submiting Application documents to the sea		tion of the dumping permi	t of waste at the	1 day	Sat 20/5/23	Sat 20/5/23				
151	H	Obtaining the dumping permits from China through the Employer	Ministry of Ecology and env	vironment of the People's	Republic of	41 days	Sun 21/5/23	Fri 30/6/23				
152		Obtaining all necessary permits, licens	ses,approvals and concents	5		14 days	Sat 17/6/23	Fri 30/6/23				
	HE	Collection and delivery of 1million ton	nes of Public Fill			92 days	Sat 1/7/23	Sat 30/9/23 152,146				
154		4th quarter of second year				134 days	Sun 20/8/23	Sun 31/12/23				
			Task		External Tasks		Dur.	ation-only		External Tasks	• • • • • • • • • • • • • • • • • • •	
			Split		External Milestone	♦	Mar	nual Summary Rollup	9	External Milestone	100	
Project: Date: W		h rolling Programme Jan22- Mar22 CV/2021/09 //22	Milestone		Inactive Milestone			nual Summary		Progress		
			Summary	-	Inactive Summary		Star	t-only		Deadline	4	
			Project Summary		Manual Task	0		sh-only				
			1			Page 4						







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Implementation Schedule of Environmental Mitigation Measures (EMIS)



Environmental Mitigation Implementation Schedule

	VII OTITICITALI MINIGATION IMPICINENTATION GONCAUTE			Implementa	tion Status	
	Environmental Protection Measures	Location	Implemented	Partially implemented	Not implemented	Not Applicable
Aiı	r Quality					
•	Dust control / mitigation measures shall be provided to prevent dust nuisance.	All areas		√		
•	A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading / unloading and similar activities should be allowed.	Northern Site Boundary	√			
•	Water sprays shall be provided and used to dampen materials.	All areas	$\sqrt{}$			
•	Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions.	All areas	V			
•	All vehicles shall be restrict to a maximum speed of 10 km per hour.	All areas	V			
•	Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin.	Site Egress	V			
•	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	√			
•	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	V			
•	Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.	All areas	V			
•	When fill material is transfer by belt conveyor systems, the conveyors shall be enclosed on top and 2 sides.	C&DMSF	√			
•	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	√			
•	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	V			
•	Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.	All areas	V			
•	Air compressors and hand held breakers should have noise labels.	All areas	$\sqrt{}$			
•	Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	All areas	√			
•	Noisy equipment and mobile plant shall always be site away from NSRs.	All areas	$\sqrt{}$			



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		Location	`	Implementa	ation Status	
	Environmental Protection Measures		Implemented	Partially implemented	Not implemented	Not Applicable
Wa	ter Quality					
•	Drainage system should be adequate and well maintained to prevent flooding and overflow, especially after rain storms.	All areas	√			
•	The permanent drainage channels should have sediment basin, traps and baffles and maintain properly.	All areas	V			
•	Temporary intercepting drains should be used at the stockpiling area to divert polluted stormwater to the intercepting channels. Earth bunds and sand bay barriers shall be used to assist the diversion of polluted stormwater to the intercepting channels.	All areas	√			
•	Manholes should be covered and sealed.	All areas	$\sqrt{}$			
•	Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding.	All areas		√		
•	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	V			
•	A buffer distance of at least 20m shall be maintained between the boundary of the C&DMSF and the seafront.	C&DMFS	$\sqrt{}$			
•	The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.	All areas	\checkmark			
	The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.	Temporary Slopes	V			
•	Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.	Temporary Slopes	V			
•	Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	All areas	~			
	A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains.	Wheel Washing facility	√			
	The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	Wheel Washing facility	V			
	Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided. The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities.	All areas	V			
	Oil intercept in addition of sand / silt removal facilities shall be provided at the car parking areas and work shop.	All areas	$\sqrt{}$			
	Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water.	Barge Handling Area (BHA)	$\sqrt{}$			
	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)	√			
	All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport.	Barge Handling Area (BHA)	V			
	Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.	Along the seafront	V			
	Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal.	Barge Handling Area (BHA)	V			
	The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities.	Along the seafront	√			
	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			
•	A waste collection vessel shall be deployed to remove floating debris.	Along the seafront	√			



	Location		Implementa	tion Status	
Environmental Protection Measures		Implemented	Partially implemented	Not implemented	Not Applicable
Landscape and Visual					
Construction of lighting to avoid spillage and glare	All areas	\checkmark			1
Hydroseeding	Completed slopes	√			İ
Hoarding erection	Site boundary	\checkmark			İ
Damage to surrounding area avoided	All areas	√			İ
Other Environmental Factors					
C&D waste sorted from mixed C&D material shall be transfer to SENT landfill for disposal.	All areas	\checkmark			İ
Plan and stock construction materials carefully to minimise generation of waste.	All areas	V			<u> </u>
Any unused materials or those with remaining functional capacity should be recycled.	All areas	\checkmark			İ
All generators, fuel and oil storage are within bunded areas.	All areas	\checkmark			İ
Oil leakage from machinery, vehicle and plant is prevented.	All areas		√		<u></u>
Bund chemical storage area to 110% capacity.	All areas	√			<u></u>
Prevent disposal of hazardous materials to air, soil and water body	All areas	√			<u></u>
Provide rubbish skips at all work areas	All areas	√			<u></u>
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	√			
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	V			



11

Statistical Analysis of the Trend of Suspended Solids in the Quarter



For Mid-Flood Tide

Station: M4

t-test

Group Name	N	Missing	Mean	Std Dev	SE	
130% Baseline Mean	12	0	6.9690	1.0690	0.3086	
Quarterly Mean	37	0	2.5194	1.5371	0.2527	

Result:

Difference between means = 4.4496 (95% CI: -5.2695 < Diff < -3.6297)

t-value of difference = 11.1560 (27 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: C1

t-test

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	6.969	0.950	0.2742
Quarterly Mean	37	0	2.3968	1.3658	0.2245

Result:

Difference between means = 4.5722 (95% CI : -5.2994 < Diff < -3.845)

t-value of difference = 12.8999 (27 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



For Mid-Ebb Tide

Station: M4

t-test

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	6.897	1.449	0.4183
Quarterly Mean	34	0	2.5676	1.7456	0.2994

Result:

Difference between means = 4.3294 (95% CI: -5.3921 < Diff < -3.2667)

t-value of difference = 8.4166 (23 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: C1

t-test

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	6.933	1.045	0.3017
Quarterly Mean	34	0	2.4250	1.7057	0.2925

Result:

Difference between means = 4.5080 (95% CI: -5.3639 < Diff < -3.6521)

t-value of difference = 10.7282 (32 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



12

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



For Mid-Flood Tide

Station: C1a

t-test

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	4.1580	1.3670	0.3946
Quarterly Mean	37	0	2.3712	1.5919	0.2617

Result:

Difference between means = 1.7868 (95% CI : -2.7715 < Diff < -0.8021)

t-value of difference = 3.7735 (22 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

t-test

Group Name N		Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	3.9020	1.1420	0.3297
Quarterly Mean	37	0	2.3077	1.2858	0.2114

Result:

Difference between means = 1.5943 (95% CI : -2.4112 < Diff < -0.7774)

t-value of difference = 4.0712 (21 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	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	3.9360	1.4140	0.4082
Quarterly Mean	37	0	2.1171	1.2247	0.2013

Result:

Difference between means = 1.8189 (95% CI: -2.7837 < Diff < -0.8541)

t-value of difference = 1.8189 (17 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



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	34	0	2.3569	1.3391	0.2297

Result:

Difference between means = 1.9291 (95% CI : -2.8774 < Diff < -0.9808)

t-value of difference = 1.9291 (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 = >0.99

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

Station: M4a

t-test

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	4.0900	1.3250	0.3825
Quarterly Mean	34	0	2.5819	1.4258	0.2445

Result:

Difference between means = 1.5081 (95% CI : -2.4551 < Diff < -0.5611)

t-value of difference = 3.3221 (21 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	N	Missing	Mean	Std D0ev	SE
130% Baseline Mean	12	0	3.7900	1.4650	0.4229
Quarterly Mean	34	0	2.4363	1.3936	0.2390

Result:

Difference between means = 1.3537 (95% CI : -2.3743 < Diff < -0.3331)

t-value of difference = 2.7868 (19 degrees of freedom)

Calculated t-value > Critical t-value

Conclusion:

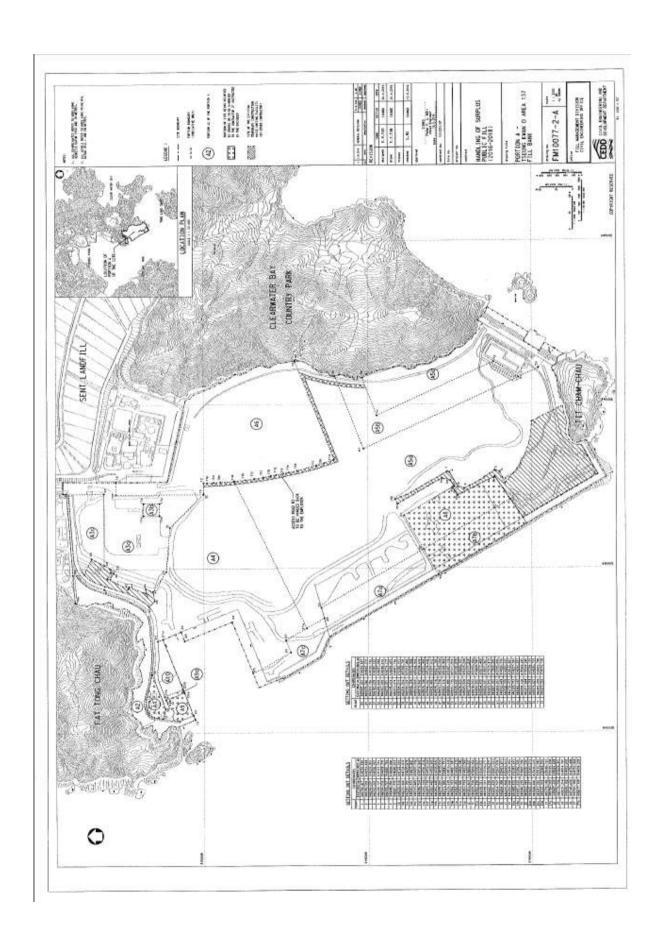
There is statistically significant difference between the groups.

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



J

Site General Layout plan





K

Weather Condition

Daily Extract of Meteorological Observations , January 2022 - Tseung Kwan O

	Mean		corologica		Mean	Mean	Total	Prevailing	Mean
	Mean		m .					0	
	Pressure	Ai	r Temperatu	ire	Dew	Relative	Rainfall	Wind	Wind
	(hPa)				Point	Humidity	(mm)	Direction	Speed
Day		Absolute	Mean	Absolute	(deg. C)	(%)		(degrees)	(km/h)
		Daily	(deg.C)	Daily					
		Max	(mog.c)	Min					
		(deg. C)		(deg. C)					
1	1024.4	19.3	17.6	16.4	13.4	76	-	70	24.4
2	1022.5	22	18.4	16	14.2	77	-	20	15.1
3	1021.1	20.5	18.3	17	14.5	79	-	70	25.1
4	1019.6	21.5	19.1	17.4	14.4	75	-	70	29.6
5	1017.3	23.6	20.4	18.3	15.8	75	Trace	50	13.8
6	1019.2	23.6	20.3	18.3	16.5	80	-	80	21.6
7	1021.6	21.1	18.6	17.2	14.8	79	-	70	31.5
8	1020.5	20.2	17.8	16	13.2	75	-	70	20.7
9	1018.2	20.1	18	16.7	14.3	79	-	70	18.8
10	1017.5	20.9	18.4	16.5	14.1	76	-	60	21.3
11	1020.2	18.8	15.8	13.7	10.1	70	1.2	10	30.4
12	1020.9	17.9	16.1	14.7	11.1	72	-	60	28.8
13	1021.5	18.9	17	15.6	10	64	Trace	10	21.8
14	1020.7	17.3	16.6	15.4	11.9	75	-	70	34.7
15	1020.1	19.8	17.9	16.5	14.8	82	-	60	28.9
16	1020.4	21.1	18.8	17.4	15.6	82	-	50	25.9
17	1020.7	18.4	17.8	17.1	15	84	-	60	27.3
18	1020.9	18.3	17.3	15.8	14.1	82	0.2	30	18.4
19	1019.3	20.3	17.1	14.9	11.5	70	-	10	16.8
20	1018.4	20.8	17.6	15.4	12.6	73	-	60	25.6
21	1017.6	19.7	17.9	16.5	14.4	80	-	70	36.9
22	1014.3	17.8	17.3	16.8	15.8	91	1.5	70	32.8
23	1013.1	21.8	19.4	17.5	16.6	84	0.1	50	15.3
24	1014.3	21.8	19.7	18.8	17.7	88	1	60	18.6
25	1016.7	20.9	18.6	17.5	15.5	82	-	60	26.9
26	1017.1	21.1	19.2	17.7	16.1	83	Trace	70	26.5
27	1016.8	22.1	19.8	18.4	17	84	Trace	60	19.3
28	1016.3	19.9	18.8	18.1	16.4	86	Trace	80	32.7
29	1014.4	20.2	18.1	16.3	14.8	81	0.1	70	17.7
30	1017.5	20	16	13.2	9.1	64	-	360	26.1
31	1019.2	15.5	14.6	13.6	9	70	Trace	40	35

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

Daily Extract of Meteorological Observations , February 2022 - Tseung Kwan O

Day		- Intract of Micteorological Observe				stions, rebitally 2022 - Iseding Rwall O				
Day		Mean				Mean	Mean	Total	Prevailing	Mean
Day		Pressure	Air Temperature			Dew	Relative	Rainfall	Wind	Wind
Name		(hPa)			Point	Humidity	(mm)	Direction	Speed	
Daily Max (deg. C)	Day		Absolute	Mean	Absolute	(deg. C)	(%)		(degrees)	(km/h)
Max (deg. C)			Daily	(deg.C)	Daily					
				(23,0)	_					
1 1018.7 15.7 14.3 12.9 11.6 84 1.2 20 27.4 2 1018.7 17 15.6 14.5 13.7 88 1 40 28.5 3 1018.7 14.5 13.4 11.7 10.9 85 1 360 25.2 4 1021.4 18.5 14.4 11.9 8.6 69 - 360 25.2 5 1023.4 17.7 15.2 13.2 9.5 69 - 30 26.5 6 1022 18.2 16 14.6 11.5 75 - 70 38.8 7 1016.8 17.7 16.4 15.1 13.9 85 Trace 70 33.5 8 1018.6 18.1 17.1 15.8 13.1 78 Trace 50 24.7 9 1019.1 17.4 16.1 15.3 12.1 77 - 4										
3 1018.7 14.5 13.4 11.7 10.9 85 1 360 19.1 4 1021.4 18.5 14.4 11.9 8.6 69 - 360 25.2 5 1023.4 17.7 15.2 13.2 9.5 69 - 30 26.5 6 1022 18.2 16 14.6 11.5 75 - 70 38.8 7 1016.8 18.1 17.1 15.8 13.1 78 Trace 70 33.5 8 1018.6 18.1 17.1 15.8 13.1 78 Trace 50 24.7 9 1019.1 17.4 16.1 15.3 12.1 77 - 40 25.1 10 1017.7 18.1 17 15.4 13.8 81 - 50 27.3 12 1016 21.3 18.7 17 15.8 83 - 40 <td>1</td> <td>1018.7</td> <td></td> <td>14.3</td> <td></td> <td>11.6</td> <td>84</td> <td>1.2</td> <td>20</td> <td>27.4</td>	1	1018.7		14.3		11.6	84	1.2	20	27.4
4 1021.4 18.5 14.4 11.9 8.6 69 - 360 25.2 5 1023.4 17.7 15.2 13.2 9.5 69 - 30 26.5 6 1022 18.2 16 14.6 11.5 75 - 70 38.8 7 1016.8 17.7 16.4 15.1 13.9 85 Trace 70 33.5 8 1018.6 18.1 17.1 15.8 13.1 78 Trace 50 24.7 9 1019.1 17.4 16.1 15.3 12.1 77 - 40 25.1 10 1017.7 18.1 17 15.4 13.8 81 - 50 22.8 11 1017.1 22 18.6 16.3 15.3 81 - 50 27.3 12 1016 21.3 18.7 17.2 15.1 14.8 86 1.	2	1018.7	17	15.6	14.5	13.7	88	1	40	28.5
5 1023.4 17.7 15.2 13.2 9.5 69 - 30 26.5 6 1022 18.2 16 14.6 11.5 75 - 70 38.8 7 1016.8 17.7 16.4 15.1 13.9 85 Trace 70 33.5 8 1018.6 18.1 17.1 15.8 13.1 78 Trace 50 24.7 9 1019.1 17.4 16.1 15.3 12.1 77 - 40 25.1 10 1017.7 18.1 17 15.4 13.8 81 - 30 24.8 11 1017.1 22 18.6 16.3 15.3 81 - 50 27.3 12 1016 21.3 18.7 17 15.8 83 - 40 16.4 13 1014.9 18.7 17.2 15.1 14.8 86 1.2 50 </td <td>3</td> <td>1018.7</td> <td>14.5</td> <td>13.4</td> <td>11.7</td> <td>10.9</td> <td>85</td> <td>1</td> <td>360</td> <td>19.1</td>	3	1018.7	14.5	13.4	11.7	10.9	85	1	360	19.1
6 1022 18.2 16 14.6 11.5 75 - 70 38.8 7 1016.8 17.7 16.4 15.1 13.9 85 Trace 70 33.5 8 1018.6 18.1 17.1 15.8 13.1 78 Trace 50 24.7 9 1019.1 17.4 16.1 15.3 12.1 77 - 40 25.1 10 1017.7 18.1 17 15.4 13.8 81 - 30 24.8 11 1017.1 22 18.6 16.3 15.3 81 - 50 27.3 12 1016 21.3 18.7 17 15.8 83 - 40 16.4 13 1014.9 18.7 17.2 15.1 14.8 86 1.2 50 22.8 14 1017.3 21.3 17 14.1 12.2 75 1.2 10	4	1021.4	18.5	14.4	11.9	8.6	69	-	360	25.2
6 1022 18.2 16 14.6 11.5 75 - 70 38.8 7 1016.8 17.7 16.4 15.1 13.9 85 Trace 70 33.5 8 1018.6 18.1 17.1 15.8 13.1 78 Trace 50 24.7 9 1019.1 17.4 16.1 15.3 12.1 77 - 40 25.1 10 1017.7 18.1 17 15.4 13.8 81 - 30 24.8 11 1017.1 22 18.6 16.3 15.3 81 - 50 27.3 12 1016 21.3 18.7 17 15.8 83 - 40 16.4 13 1014.9 18.7 17.2 15.1 14.8 86 1.2 50 22.8 14 1017.3 21.3 17 14.1 12.2 75 1.2 10	5							-		
8 1018.6 18.1 17.1 15.8 13.1 78 Trace 50 24.7 9 1019.1 17.4 16.1 15.3 12.1 77 - 40 25.1 10 1017.7 18.1 17 15.4 13.8 81 - 30 24.8 11 1017.1 22 18.6 16.3 15.3 81 - 50 27.3 12 1016 21.3 18.7 17 15.8 83 - 40 16.4 13 1014.9 18.7 17.2 15.1 14.8 86 1.2 50 22.8 14 1017.3 21.3 17 14.1 12.2 75 1.2 10 19.2 15 1017.8 21.8 17.6 15.8 13.5 77 - 60 23.4 16 1016 18.5 16.9 15.6 12.8 77 - 80	6	1022	18.2	16	14.6	11.5	75	-	70	38.8
9 1019.1 17.4 16.1 15.3 12.1 77 - 40 25.1 10 1017.7 18.1 17 15.4 13.8 81 - 30 24.8 11 1017.1 22 18.6 16.3 15.3 81 - 50 27.3 12 1016 21.3 18.7 17 15.8 83 - 40 16.4 13 1014.9 18.7 17.2 15.1 14.8 86 1.2 50 22.8 14 1017.3 21.3 17 14.1 12.2 75 1.2 10 19.2 15 1017.8 21.8 17.6 15.8 13.5 77 - 60 23.4 16 1016 18.5 16.9 15.6 12.8 77 - 80 38 17 1014.9 16.9 15.6 15 13.3 86 4 60	7	1016.8	17.7	16.4	15.1	13.9	85	Trace	70	33.5
10 1017.7 18.1 17 15.4 13.8 81 - 30 24.8 11 1017.1 22 18.6 16.3 15.3 81 - 50 27.3 12 1016 21.3 18.7 17 15.8 83 - 40 16.4 13 1014.9 18.7 17.2 15.1 14.8 86 1.2 50 22.8 14 1017.3 21.3 17 14.1 12.2 75 1.2 10 19.2 15 1017.8 21.8 17.6 15.8 13.5 77 - 60 23.4 16 1016 18.5 16.9 15.6 12.8 77 - 80 38 17 1014.9 16.9 15.6 15 13.3 86 4 60 47 18 1015.4 16.7 15.9 15.2 13.3 84 Trace 70 <td>8</td> <td>1018.6</td> <td>18.1</td> <td>17.1</td> <td>15.8</td> <td>13.1</td> <td>78</td> <td>Trace</td> <td>50</td> <td>24.7</td>	8	1018.6	18.1	17.1	15.8	13.1	78	Trace	50	24.7
11 1017.1 22 18.6 16.3 15.3 81 - 50 27.3 12 1016 21.3 18.7 17 15.8 83 - 40 16.4 13 1014.9 18.7 17.2 15.1 14.8 86 1.2 50 22.8 14 1017.3 21.3 17 14.1 12.2 75 1.2 10 19.2 15 1017.8 21.8 17.6 15.8 13.5 77 - 60 23.4 16 1016 18.5 16.9 15.6 12.8 77 - 80 38 17 1014.9 16.9 15.6 15 13.3 86 4 60 47 18 1015.4 16.7 15.9 15.2 13.3 84 Trace 70 42.9 19 1017 15.9 12.4 9.7 11.2 92 21.3 360<	9	1019.1	17.4	16.1	15.3	12.1	77	-	40	25.1
12 1016 21.3 18.7 17 15.8 83 - 40 16.4 13 1014.9 18.7 17.2 15.1 14.8 86 1.2 50 22.8 14 1017.3 21.3 17 14.1 12.2 75 1.2 10 19.2 15 1017.8 21.8 17.6 15.8 13.5 77 - 60 23.4 16 1016 18.5 16.9 15.6 12.8 77 - 80 38 17 1014.9 16.9 15.6 15 13.3 86 4 60 47 18 1015.4 16.7 15.9 15.2 13.3 84 Trace 70 42.9 19 1017 15.9 12.4 9.7 11.2 92 21.3 360 38.7 20 1020.8 9.8 8.5 8 7.7 94 43.4 10 </td <td>10</td> <td>1017.7</td> <td>18.1</td> <td>17</td> <td>15.4</td> <td>13.8</td> <td>81</td> <td>-</td> <td>30</td> <td>24.8</td>	10	1017.7	18.1	17	15.4	13.8	81	-	30	24.8
13 1014.9 18.7 17.2 15.1 14.8 86 1.2 50 22.8 14 1017.3 21.3 17 14.1 12.2 75 1.2 10 19.2 15 1017.8 21.8 17.6 15.8 13.5 77 - 60 23.4 16 1016 18.5 16.9 15.6 12.8 77 - 80 38 17 1014.9 16.9 15.6 15 13.3 86 4 60 47 18 1015.4 16.7 15.9 15.2 13.3 84 Trace 70 42.9 19 1017 15.9 12.4 9.7 11.2 92 21.3 360 38.7 20 1020.8 9.8 8.5 8 7.7 94 43.4 10 42.1 21 1020.1 10.1 8.8 7.5 8.1 95 43.3	11	1017.1	22	18.6	16.3	15.3	81	-	50	27.3
14 1017.3 21.3 17 14.1 12.2 75 1.2 10 19.2 15 1017.8 21.8 17.6 15.8 13.5 77 - 60 23.4 16 1016 18.5 16.9 15.6 12.8 77 - 80 38 17 1014.9 16.9 15.6 15 13.3 86 4 60 47 18 1015.4 16.7 15.9 15.2 13.3 84 Trace 70 42.9 19 1017 15.9 12.4 9.7 11.2 92 21.3 360 38.7 20 1020.8 9.8 8.5 8 7.7 94 43.4 10 42.1 21 1020.8 9.8 8.5 8 7.7 94 43.4 10 31.5 22 1022.1 10.1 8.8 7.5 8.1 95 43.3 10 <td>12</td> <td>1016</td> <td>21.3</td> <td>18.7</td> <td>17</td> <td>15.8</td> <td>83</td> <td>-</td> <td>40</td> <td>16.4</td>	12	1016	21.3	18.7	17	15.8	83	-	40	16.4
15 1017.8 21.8 17.6 15.8 13.5 77 - 60 23.4 16 1016 18.5 16.9 15.6 12.8 77 - 80 38 17 1014.9 16.9 15.6 15 13.3 86 4 60 47 18 1015.4 16.7 15.9 15.2 13.3 84 Trace 70 42.9 19 1017 15.9 12.4 9.7 11.2 92 21.3 360 38.7 20 1020.8 9.8 8.5 8 7.7 94 43.4 10 42.1 21 1020.8 9.8 8.5 8 7.7 94 43.4 10 42.1 21 1020.8 9.8 8.5 8 7.7 94 43.4 10 42.1 21 1020.8 9.8 8.5 8 7.7 94 43.3 10	13	1014.9	18.7	17.2	15.1	14.8	86	1.2	50	22.8
16 1016 18.5 16.9 15.6 12.8 77 - 80 38 17 1014.9 16.9 15.6 15 13.3 86 4 60 47 18 1015.4 16.7 15.9 15.2 13.3 84 Trace 70 42.9 19 1017 15.9 12.4 9.7 11.2 92 21.3 360 38.7 20 1020.8 9.8 8.5 8 7.7 94 43.4 10 42.1 21 1022.1 10.1 8.8 7.5 8.1 95 43.3 10 31.5 22 1022 12.2 10.7 9.2 10.1 96 39.9 360 25 23 1024.3 16.2 12.1 9.4 8.1 77 11 360 29.3 24 1026.2 14.9 12.6 10.7 7.6 72 - 10 </td <td>14</td> <td>1017.3</td> <td>21.3</td> <td>17</td> <td>14.1</td> <td>12.2</td> <td>75</td> <td>1.2</td> <td>10</td> <td>19.2</td>	14	1017.3	21.3	17	14.1	12.2	75	1.2	10	19.2
17 1014.9 16.9 15.6 15 13.3 86 4 60 47 18 1015.4 16.7 15.9 15.2 13.3 84 Trace 70 42.9 19 1017 15.9 12.4 9.7 11.2 92 21.3 360 38.7 20 1020.8 9.8 8.5 8 7.7 94 43.4 10 42.1 21 1022.1 10.1 8.8 7.5 8.1 95 43.3 10 31.5 22 1022 12.2 10.7 9.2 10.1 96 39.9 360 25 23 1024.3 16.2 12.1 9.4 8.1 77 11 360 29.3 24 1026.2 14.9 12.6 10.7 7.6 72 - 10 17.3 25 1024.5 20.1 15.3 12.2 9.8 70 - 10 14.7 26 1021.9 21.4 16.8 13.6 12.4	15	1017.8	21.8	17.6	15.8	13.5	77	-	60	23.4
18 1015.4 16.7 15.9 15.2 13.3 84 Trace 70 42.9 19 1017 15.9 12.4 9.7 11.2 92 21.3 360 38.7 20 1020.8 9.8 8.5 8 7.7 94 43.4 10 42.1 21 1022.1 10.1 8.8 7.5 8.1 95 43.3 10 31.5 22 1022 12.2 10.7 9.2 10.1 96 39.9 360 25 23 1024.3 16.2 12.1 9.4 8.1 77 11 360 29.3 24 1026.2 14.9 12.6 10.7 7.6 72 - 10 17.3 25 1024.5 20.1 15.3 12.2 9.8 70 - 10 14.7 26 1021.9 21.4 16.8 13.6 12.4 76 - <	16	1016	18.5	16.9	15.6	12.8	77	-	80	38
19 1017 15.9 12.4 9.7 11.2 92 21.3 360 38.7 20 1020.8 9.8 8.5 8 7.7 94 43.4 10 42.1 21 1022.1 10.1 8.8 7.5 8.1 95 43.3 10 31.5 22 1022 12.2 10.7 9.2 10.1 96 39.9 360 25 23 1024.3 16.2 12.1 9.4 8.1 77 11 360 29.3 24 1026.2 14.9 12.6 10.7 7.6 72 - 10 17.3 25 1024.5 20.1 15.3 12.2 9.8 70 - 10 14.7 26 1021.9 21.4 16.8 13.6 12.4 76 - 40 10.1 27 1019.6 21.7 17.6 14.8 13.8 79 - 40 15.6 28 1018.6 22.5 18.9 16.4 13.3	17	1014.9	16.9	15.6	15	13.3	86	4	60	47
20 1020.8 9.8 8.5 8 7.7 94 43.4 10 42.1 21 1022.1 10.1 8.8 7.5 8.1 95 43.3 10 31.5 22 1022 12.2 10.7 9.2 10.1 96 39.9 360 25 23 1024.3 16.2 12.1 9.4 8.1 77 11 360 29.3 24 1026.2 14.9 12.6 10.7 7.6 72 - 10 17.3 25 1024.5 20.1 15.3 12.2 9.8 70 - 10 14.7 26 1021.9 21.4 16.8 13.6 12.4 76 - 40 10.1 27 1019.6 21.7 17.6 14.8 13.8 79 - 40 15.6 28 1018.6 22.5 18.9 16.4 13.3 70 - 40 23 - - - - - - - - - - - - - - - - - - - - 28 <td< td=""><td>18</td><td>1015.4</td><td>16.7</td><td>15.9</td><td>15.2</td><td>13.3</td><td>84</td><td>Trace</td><td>70</td><td>42.9</td></td<>	18	1015.4	16.7	15.9	15.2	13.3	84	Trace	70	42.9
21 1022.1 10.1 8.8 7.5 8.1 95 43.3 10 31.5 22 1022 12.2 10.7 9.2 10.1 96 39.9 360 25 23 1024.3 16.2 12.1 9.4 8.1 77 11 360 29.3 24 1026.2 14.9 12.6 10.7 7.6 72 - 10 17.3 25 1024.5 20.1 15.3 12.2 9.8 70 - 10 14.7 26 1021.9 21.4 16.8 13.6 12.4 76 - 40 10.1 27 1019.6 21.7 17.6 14.8 13.8 79 - 40 15.6 28 1018.6 22.5 18.9 16.4 13.3 70 - 40 23 - - - - - - - - - - - - - - - - - - <td< td=""><td>19</td><td>1017</td><td>15.9</td><td>12.4</td><td>9.7</td><td>11.2</td><td>92</td><td>21.3</td><td>360</td><td>38.7</td></td<>	19	1017	15.9	12.4	9.7	11.2	92	21.3	360	38.7
22 1022 12.2 10.7 9.2 10.1 96 39.9 360 25 23 1024.3 16.2 12.1 9.4 8.1 77 11 360 29.3 24 1026.2 14.9 12.6 10.7 7.6 72 - 10 17.3 25 1024.5 20.1 15.3 12.2 9.8 70 - 10 14.7 26 1021.9 21.4 16.8 13.6 12.4 76 - 40 10.1 27 1019.6 21.7 17.6 14.8 13.8 79 - 40 15.6 28 1018.6 22.5 18.9 16.4 13.3 70 - 40 23 - - - - - - - - - - - - - - - - - - - -	20	1020.8	9.8	8.5	8	7.7	94	43.4	10	42.1
23 1024.3 16.2 12.1 9.4 8.1 77 11 360 29.3 24 1026.2 14.9 12.6 10.7 7.6 72 - 10 17.3 25 1024.5 20.1 15.3 12.2 9.8 70 - 10 14.7 26 1021.9 21.4 16.8 13.6 12.4 76 - 40 10.1 27 1019.6 21.7 17.6 14.8 13.8 79 - 40 15.6 28 1018.6 22.5 18.9 16.4 13.3 70 - 40 23 - - - - - - - - - - - - - - - - - -	21	1022.1	10.1	8.8	7.5	8.1	95	43.3	10	31.5
24 1026.2 14.9 12.6 10.7 7.6 72 - 10 17.3 25 1024.5 20.1 15.3 12.2 9.8 70 - 10 14.7 26 1021.9 21.4 16.8 13.6 12.4 76 - 40 10.1 27 1019.6 21.7 17.6 14.8 13.8 79 - 40 15.6 28 1018.6 22.5 18.9 16.4 13.3 70 - 40 23 - - - - - - - - - - - - - - - - - - - -	22	1022	12.2	10.7	9.2	10.1	96	39.9	360	25
25 1024.5 20.1 15.3 12.2 9.8 70 - 10 14.7 26 1021.9 21.4 16.8 13.6 12.4 76 - 40 10.1 27 1019.6 21.7 17.6 14.8 13.8 79 - 40 15.6 28 1018.6 22.5 18.9 16.4 13.3 70 - 40 23 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	23	1024.3	16.2	12.1	9.4	8.1	77	11	360	29.3
26 1021.9 21.4 16.8 13.6 12.4 76 - 40 10.1 27 1019.6 21.7 17.6 14.8 13.8 79 - 40 15.6 28 1018.6 22.5 18.9 16.4 13.3 70 - 40 23 - - - - - - - - - - - - - - - - - -	24	1026.2	14.9	12.6	10.7	7.6	72	-	10	17.3
27 1019.6 21.7 17.6 14.8 13.8 79 - 40 15.6 28 1018.6 22.5 18.9 16.4 13.3 70 - 40 23 - - - - - - - - - - - - - - - - - - - - - - - - - - - -	25	1024.5	20.1	15.3	12.2	9.8	70	-	10	14.7
28 1018.6 22.5 18.9 16.4 13.3 70 - 40 23 - - - - - - - - - - - - - - - - - - - - - - - -	26	1021.9	21.4	16.8	13.6	12.4	76	-	40	10.1
1 1	27	1019.6	21.7	17.6	14.8	13.8	79	-	40	15.6
	28	1018.6	22.5	18.9	16.4	13.3	70	-	40	23
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-

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

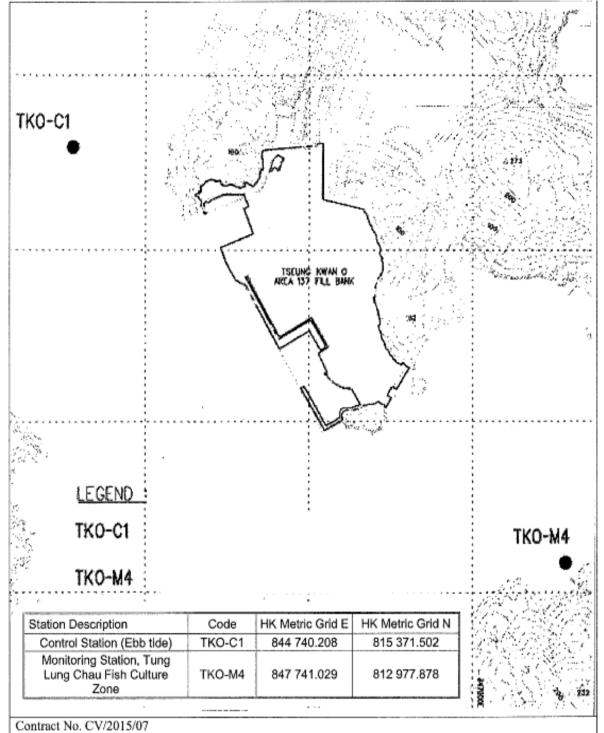
Daily Extract of Meteorological Observations , March 2022 - Tseung Kwan O

Mean Pressure Air Temperature Dew Relative Rainfall Wind Direct	d Wind on Speed
Day Day Character Chara	on Speed es) (km/h)
Day Absolute Mean Absolute (deg. C) (%) (degree of the control of the contro	es) (km/h)
Absolute Mean Absolute (deg. C) (%) (degree Daily Max (deg. C) (deg. C) 1 1016.9 26.3 22 19.1 17.6 77 - 20 2 1017.2 26.1 20.7 18.1 17.5 83 - 360 3 1017.2 22.6 19.5 17.4 15 76 - 60	
Daily Max (deg. C) (deg. C) Daily Min (deg. C) 1 1016.9 26.3 22 19.1 17.6 77 - 20 2 1017.2 26.1 20.7 18.1 17.5 83 - 360 3 1017.2 22.6 19.5 17.4 15 76 - 60	
Max (deg. C) Min (deg. C) 1 1016.9 26.3 22 19.1 17.6 77 - 20 2 1017.2 26.1 20.7 18.1 17.5 83 - 360 3 1017.2 22.6 19.5 17.4 15 76 - 60	9.2
(deg. C) (deg. C) 1 1016.9 26.3 22 19.1 17.6 77 - 20 2 1017.2 26.1 20.7 18.1 17.5 83 - 360 3 1017.2 22.6 19.5 17.4 15 76 - 60	9.2
1 1016.9 26.3 22 19.1 17.6 77 - 20 2 1017.2 26.1 20.7 18.1 17.5 83 - 360 3 1017.2 22.6 19.5 17.4 15 76 - 60	9.2
2 1017.2 26.1 20.7 18.1 17.5 83 - 360 3 1017.2 22.6 19.5 17.4 15 76 - 60	
3 1017.2 22.6 19.5 17.4 15 76 - 60	12
	26
	12.5
5 1013.5 24.6 20.6 17.9 17.8 84 - 230	13.4
6 1015.7 21.3 19.1 17.6 15 77 - 50	34.5
7 1017.2 24.6 19.8 16.8 13.6 70 4.8 20	23
8 1018.2 21.6 17.5 15 7.5 53 - 80	26.7
9 1017.2 24.3 18.7 15.1 9.7 57 - 60	27
10 1015.8 25 20.7 17.9 12.5 60 - 40	20.6
11 1014 26.9 22.1 18.8 16.5 71 - 40	13.8
12 1013.6 26 22.3 19.8 15.7 68 - 30	14.8
13 1012.8 27.7 23.6 21 18.8 75 0.1 30	12.7
14 1011.9 29 24.1 21.4 19.9 78 - 30	8.5
15 1010.8 28.4 23.8 21.1 19.9 80 - 90	8.7
16 1011.7 24.7 22.3 21.2 18.4 79 Trace 50	22.4
17 1009.4 27.7 24.3 22.1 21.5 85 Trace 50	9.7
18 1008.8 28.7 24.4 21.3 21.4 84 - 230	6.3
19 1009.9 25.8 23.3 22.3 20.6 85 - 70	17.8
20 1012.6 22.9 21 19.9 18.9 88 Trace 70	30.5
21 1012.9 23.7 22.1 21 20.2 89 Trace 30	19
22 1012.8 25.1 23 21.2 21.7 93 Trace 30	15.2
23 1014.7 21.6 17.7 16.3 16.6 94 54.8 20	26.3
24 1014.3 18.5 17.6 16.3 16.1 91 1.8 70	37.3
25 1010.4 26.7 23.1 18.1 21.3 90 0.7 230	25.8
26 1010.4 28.7 26.4 24.9 23.9 86 0.1 230	26.3
27 1013.4 25.4 21.9 19.1 18.9 83 Trace 70	22.5
28 1017.4 19.2 17.5 16.4 15.6 89 30.3 70	28.5
29 1017.2 21.2 19.1 17.4 15.8 82 0.1 70	32
30 1015.9 26.1 22.4 19.5 17.5 74 - 50	22.3
31 1016.3 29.3 24.4 21.9 18.2 69 Trace 40	24.4

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



Figures

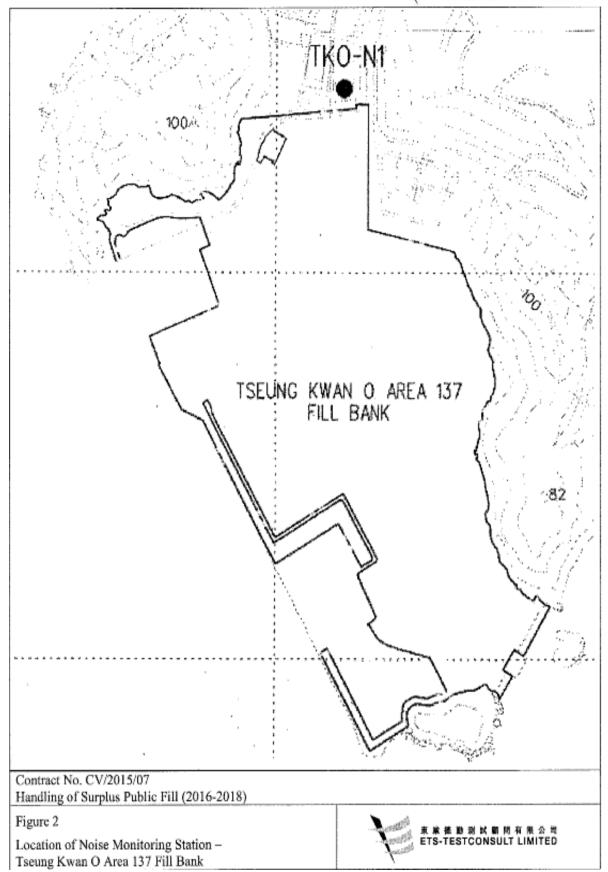


Handling of Surplus Public Fill (2016-2018)

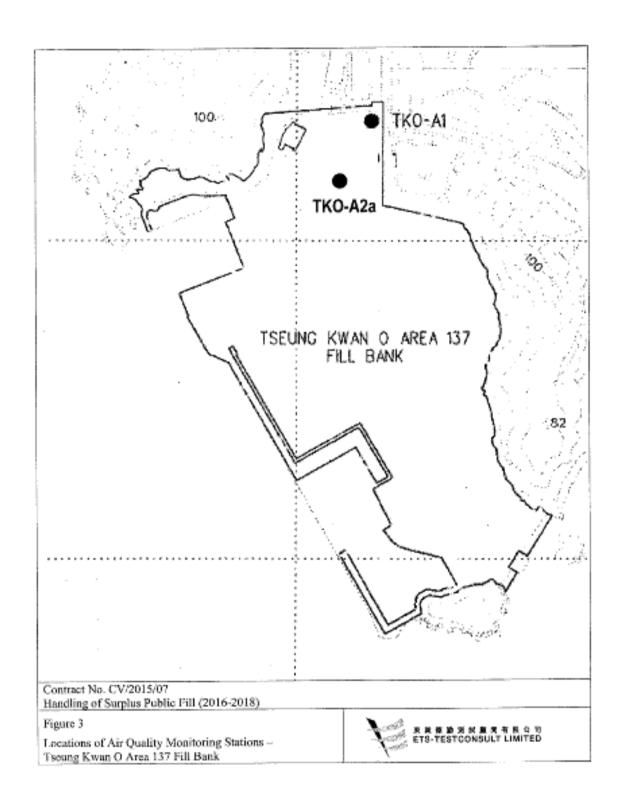
Figure 1

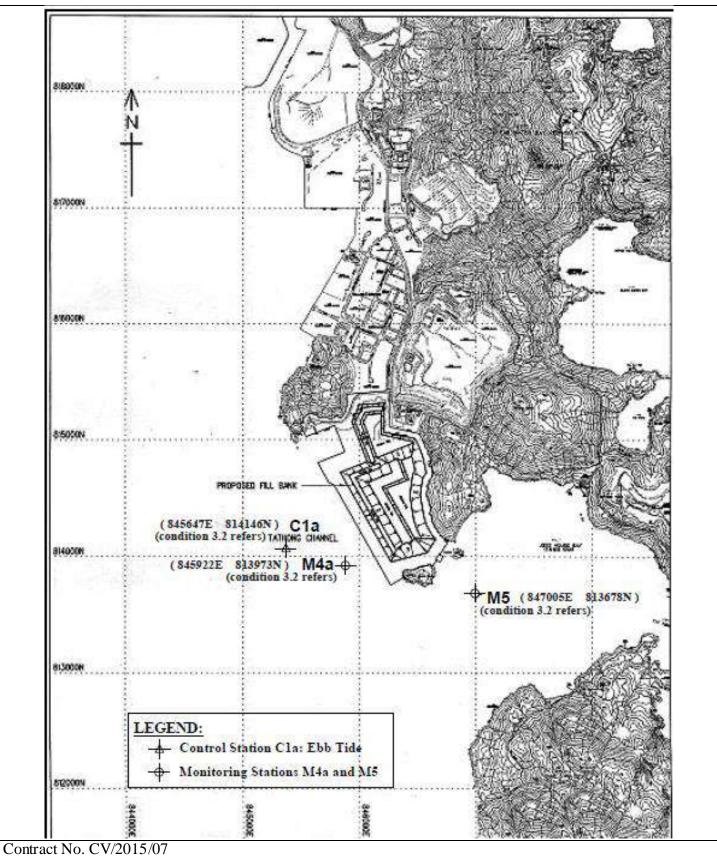
Locations of Water Quality Monitoring Stations -Tseung Kwan O Area 137 Fill Bank











Handling of Surplus Public Fill(2016-2018)

Figure 4 Locations of Additional Water Quality Monitoring Stations (3RS Tseung Kwan O Area 137 Fill Bank

