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TEST REPORT



China Harbour Engineering Co Ltd

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

TSEUNG KWAN O AREA 137 FILL BANK

QUARTERLY EM&A SUMMARY REPORT NO.06

(FROM APRIL 2023 TO JUNE 2023)

Prepared by:

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Assistant Environmental Officer

Checked by:

LAU, Chi Leung Environmental Team Leader

Issue Date: 19 July 2023

Report No: ENA33971

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Our Ref: 202311007

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

3 November 2023

Dear Mr. Lau,

RE: Contract No. CV/2021/09 Handling of Surplus Public Fill (2022-2023) <u>Quarterly EM&A Report (No. 6) for April to June 2022 for the Tseung Kwan O Area 137 Fill</u> <u>Bank</u>

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

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

Yours faithfully,

Toam Jan Bearg

F. C. Tsang Independent Environmental Checker

cc. CEDD – Mr. T M YEUNG



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EXECUTIVE SUMMARY

This is Quarterly Environmental Monitoring and Audit (EM&A) Summary Report No.06 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 April 2023 to 30 June 2023.

Site Activities	
	 Appendix Construction of the public fill Reception Facilities at Tseung Kwan O Fill Bank (TKOFB); Operation of the Public Fill Reception Facilities at Tseung Kwan O Fill Bank (TKOFB); Operation of dewatering plant at TKOFB; Operation and Maintenance of crushing plants at TKOFB; Operation of the Integrated Public Fill Reception at TKOFB; Operation and Maintenance of the Wash House at TKOFB; Operation and Maintenance of the Wash House at TKOFB; Operation and Operation and Proximity Detection System of Moving Plant at TKOFB; Operation and Operation a Digital Works Supervision System (DWSS) for TKOFB; Operation and maintenance of Wheel Washing Bays and Facilities at TKOFB; Maintenance of the Drainage Systems at TKOFB; Maintenance of the Drainage Systems at TKOFB; Replacement of concrete pavement at TKOFB (Phase 1) Carry out GCO Probe test and SRT Trial Delivery of Excavated Materials (T2 Materials) from TKOFB to Sha Chau Dumping Site at TKOFB
May 2023	 Operation of the Public Fill Reception Facilities at Tseung Kwan O Fill Bank (TKOFB); Operation of dewatering plant at TKOFB; Operation and Maintenance of crushing plants at TKOFB; Operation and Maintenance of Artificial Intelligent System for Crushing Plant at TKOFB; Operation of the Integrated Public Fill Reception at TKOFB; Operation and Maintenance of the Wash House at TKOFB; Operation and Maintenance of the Wash House at TKOFB; Operation and Maintenance of the Wash House at TKOFB; Operation and Maintenance a Digital Works Supervision System of Moving Plant at TKOFB; Operation and maintenance of Wheel Washing Bays and Facilities at TKOFB; Operation and maintenance of Wheel Washing Bays and Facilities at TKOFB; Maintenance of the Drainage Systems at TKOFB; Construction of Gabion Wall at TKOFB; Construction of Casy system at TKOFB (Phase 1) Carry out GCO Probe test and SRT Trial Delivery of Excavated Materials (T2 Materials) from TKOFB to Sha Chau Dumping Site at TKOFB
June 2023	 Operation of the Public Fill Reception Facilities at Tseung Kwan O Fill Bank (TKOFB); Operation of dewatering plant at TKOFB; Operation and Maintenance of crushing plants at TKOFB; Operation and Maintenance of Artificial Intelligent System for Crushing Plant at TKOFB; Operation of the Integrated Public Fill Reception at TKOFB; Operation and Maintenance of the Wash House at TKOFB; Operation and Maintenance of the Wash House at TKOFB; Operation and Maintenance of the Wash House at TKOFB; Operation and Maintenance a Digital Works Supervision System of Moving Plant at TKOFB; Operation and maintenance of Wheel Washing Bays and Facilities at TKOFB; Operation and maintenance of Wheel Washing Bays and Facilities at TKOFB; Maintenance of the Drainage Systems at TKOFB; Construction of Gabion Wall at TKOFB; Replacement of concrete pavement at TKOFB (Phase 1) Carry out GCO Probe test and SRT



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.

Environmental Monitoring Works

Noise Monitoring

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

Air Monitoring

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

Marine Water Quality Monitoring

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

Environmental Complaints, Notification of summons and successful prosecutions

No complaint, notification of summons or successful prosecutions with respect to environmental issues was received in this quarter.



1.0 INTRODUCTION

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

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

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

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

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

Baseline monitoring was completed in August and September 2002 by MateriaLab. Action and Limit Levels were established for air and water quality parameters based on the baseline monitoring results.

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

2.0 **PROJECT INFORMATION**

2.1 Scope of the Project

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

- Site clearance;
- Construction of a temporary storm water system;
- Stockpiling of 6 million 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.



2.3 Work Programme

Details of work programme in this quarter are shown in Appendix G.

2.4 Project Organization and Management Structure

The project organization chart is shown in Appendix A.

2.5 Contact Details of Key Personnel

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

Table 0.4	Contract Dataila	af 1/a	
Table 2.1	Contact Details	U nev	

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

3.0 SUMMARY OF EM&A REQUIREMENTS

3.1 EM&A Programme

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

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

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

3.2 Monitoring Stations and Parameters

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

3.3 Monitoring Methodology and Calibration Details

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



3.4 Environmental Quality Performance Limits (Action/Limit Levels)

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

3.5 Environmental Mitigation Measures

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

4.0 MONITORING RESULTS

4.1 Air Quality

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

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

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

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

Table 4.1 Odminary of Number of Exceedances for 1 th and 24 th 1 of Monitoring				
Monitoring	Level of	April 2023	May 2023	June 2023
Parameter	Exceedance			
24-hr TSP	No of monitoring	6	5	5
	events			
	Action Level	0	0	0
	Limit Level	0	0	0
1-hr TSP	No of monitoring	15	17	16
	events			
	Action Level	0	0	0
	Limit Level	0	0	0

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

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

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

Period	1-hr TSP (μg/m³)		24-hr TSP (μg/m³)	
renou	TKO-A1	TKO-A2a	TKO-A1	TKO-A2a
Baseline (29/08 – 13/09)	1	95	12	23
April 2023	250	254	142	146
May 2023	248	251	145	149
June 2023	241	246	145	147



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 4.5 Summary of impact Monitoring results of Noise Daytime Monitoring						
Monitoring	Limit Level	April 2023	May 2023	June 2023		
Location	Leq, dB(A)					
TKO-N1	75	64.9	64.8	61.3		

 Table 4.3
 Summary of Impact Monitoring results of Noise Daytime Monitoring

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

4.3 Marine Water Quality

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

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

According to Environmental Permit (Permit no.:EP-134/2002/N) Condition 3.2, water quality survey/monitoring shall be conducted at control station C1a, monitoring stations M4a and M5 for the period from two weeks before commencement of operation of the additional 5 barging points to 4 weeks after cessation of their operation. The water quality survey/monitoring frequency and parameters at stations C1a, M4a and M5 shall be same as the requirements set out in the EM&A Manual and the monitoring results shall be incorporated in the monthly EM&A reports.

Due to "Hong Kong International Airport, Three Runway System Project Contract 3206 – Main Reclamation Works "(3RS project) operation of the additional barging point at TKO Area 137, the ET started monitoring events at the impact station M4a, M5 and the control station C1a from 14 May 2018 onwards.

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

Parameter	Exceedance	April 2023	May 2023	June 2023
	Level			
Number of monitor	ing days	11	14	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
Turbidity	Limit	0	0	0
Suspended	Action	0	0	0
Solids, SS	Limit	0	0	0
Total Number	Action	0	0	0
Exceedances	Limit	0	0	0

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



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

Parameter	Exceedance Level	April 2023	May 2023	June 2023
Number of monitor	ing days	11	14	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	0	0	
M4	0	0	

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

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

5.0 INSPECTION RESULTS

5.1 Implementation Status of Environmental Mitigation Measures

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

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



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

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

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

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

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

5.2 Status of Environmental Licensing and Permitting

Description	Permit No.	Valid	Valid Month Section	
		From	То	
Environmental Permit	EP- 134/2002/P	14/02/23	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	WT000411 69-2022	06/06/22	30/06/27	Effluent, Surface Run-off, and all other wastewater discharges from screen and sedimentation tank
Marine Dumping Permit	EP/MD/24- 005	06/06/23	30/06/23	Approval for dumping 499,999 tons (approximately equal to 277,777 cu.m. bulked quantity) of Public Fill (Reclamation Materials) from Tseung Kwan O Area 137 Fill Bank and Tuen Mun Area 38 Fill Bank to designated dumping area at Guanghaiwan of Taishan

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



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

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	
10010 0.2	Sumated Onsite Waste Disposal in the Reporting Quarter	

Waste Type	April 2023	May 2023	June 2023		
Public Fill ('000m³)	0	0	0		
C&D Waste (general refuse) ('000kg)	50.08	63.83	77.57		
Chemical Waste (kg/L)	0 (L)	0 (L)	0 (L)		

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

6.0 NON-COMPLIANCE OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS

6.1 Summary of Non-compliance

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

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

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

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

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

6.3 Summary of Actions Taken

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

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

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

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



Table 6.1	Summary of Environmental Complaints and Prosecutions					
	Period	Complaints logged	Summon served	Successful Prosecution		
	April 2023	0	0	0		
	May 2023	0	0	0		
	June 2023	0	0	0		
	Cumulative	18	0	0		

7.0 COMMENTS, CONCLUSIONS AND RECOMMENDATION

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

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

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

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

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

According to the ET weekly site inspection and IEC site audits carried out in this quarter, it was indicated that site practices of the Contractor were generally undertaken in an environmentally acceptable manner and the overall site environmental performance was up to standard. The Contractor generally implemented sufficient dust mitigation measures, including operation of the mist spraying systems, provision of automatic water sprinklers at the crushing plants and automatic wheel washing facilities, dampening of haul roads and stockpiling areas.

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

Air Quality

- Ensure the frequency of water spraying on haul roads, unloading areas and stockpiles to be sufficient to suppress the dust sources;
- Provide proper maintenance for the powered mechanical equipment and barges to avoid emission of dark smoke;
- Provide water spraying onto the truckloads during inspection of fill material;
- Provide continuously water spraying system for crushing plant including receiving point and unloading point;
- Provide enclosed conveyor belt for transporting the crushed material directly to the unloading point
- Provide dust screen fenced for crushing plant, and the receiving point of crushing facility would be situated inside an enclosure with one side opening for vehicular access;
- Conduct road sweeping on all paved haul roads and public roads especially outside and near the site egress by the road sweeper. Undertake water spraying on stockpiling area by water boswer;
- Erect adequate speed limit signs to advise the truck drivers of the speed limit;
- Operate mist spraying systems and automatic water sprinklers in the Fill Bank;
- Implement the dust mitigation measures for the site activities;
- Designate proper haul roads to ensure effective water spraying; and
- Ensure all vehicles to be washed before leaving the site egress by provision, operation and maintenance of automatic wheel washing facilities.

Noise

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



Water Quality

- Maintain the drainage system, including the trapezoidal channels, permanent desilting chambers, DP3 & DP4 regularly;
- Operate and maintain the silt curtains regularly;
- Operate the cleaning vessel within the TKO Basin regularly;
- Provide proper treatment for the oil discharge from the area near air monitoring station TKO-A1;
- Clean up the fill material on the concrete pavement at BHA frequently; and
- Remove the stagnant water or provide approved pesticides for the stagnant water in the permanent desilting chambers, if any.

Chemical and Waste Management

- Remove waste materials from the site to avoid accumulation regularly;
- Handle and store chemical wastes properly;
- Remove unwanted material in the existing stockpiles and avoid further dumping of such material;
- Provide and maintain sufficient drip trays for diesel drums, chemical containers, chemical waste storage drums and diesel operated generator set;
- Maintain mesh screen on top of the additional drainage, DP3 to avoid improper dumping of rubbish;
- Maintain good housekeeping at the workshop area;
- Ensure sufficient tarpaulin sheets are provided to cover drip trays; and
- Avoid soil being polluted during oil filling and equipment maintenance; hence, properly remove and store the contaminated soil, if any.

Landscape and Visual

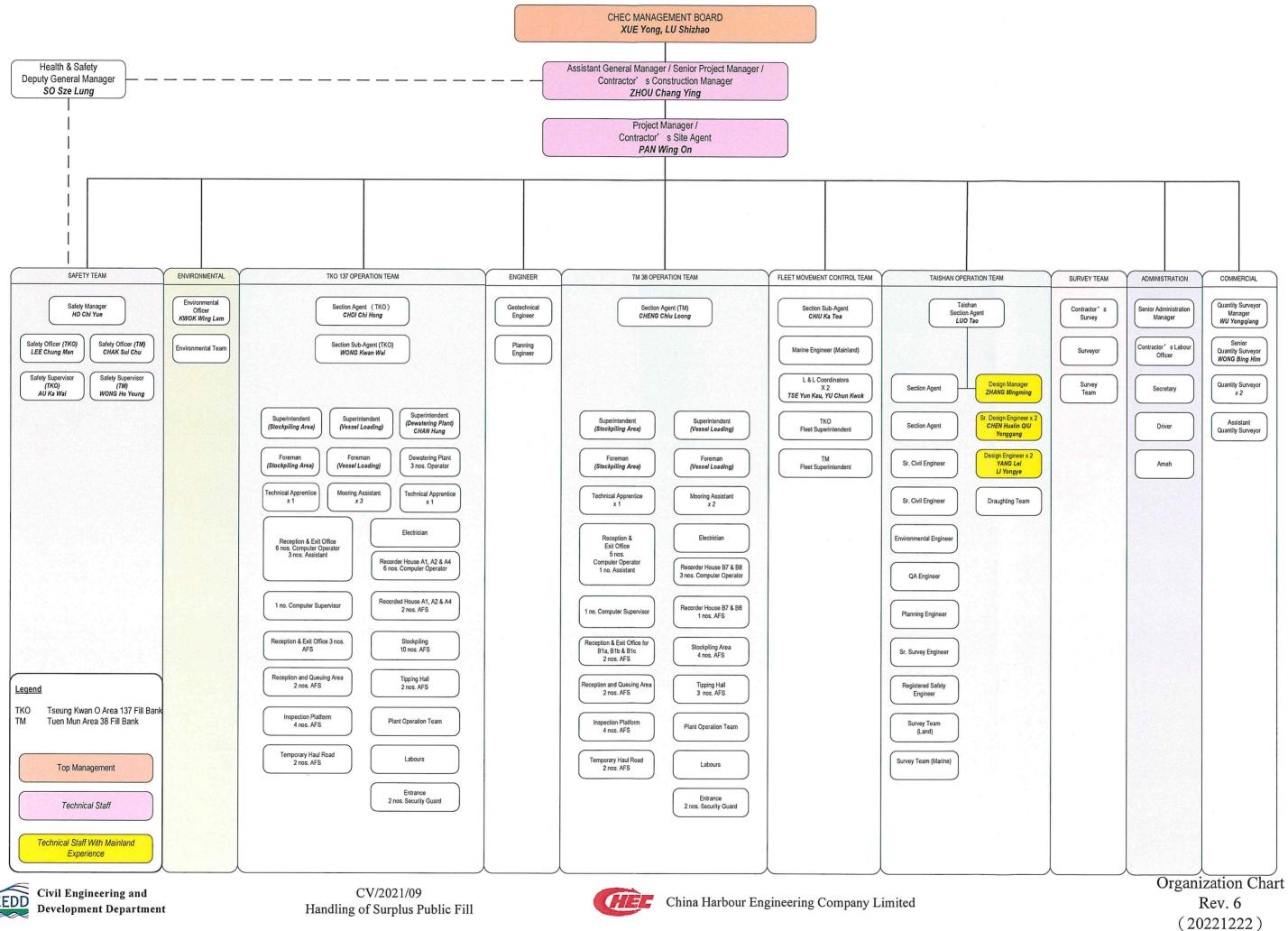
- Provide hydroseeding on the exposed slopes, on which the final profile has been formed;
- Erect all the site hoarding/chaining fences in accordance with agreed design at proper location;
- Maintain the hydroseeding slopes in accordance with the Landscape Plan.

- END OF REPORT -



Α

Organization Chart





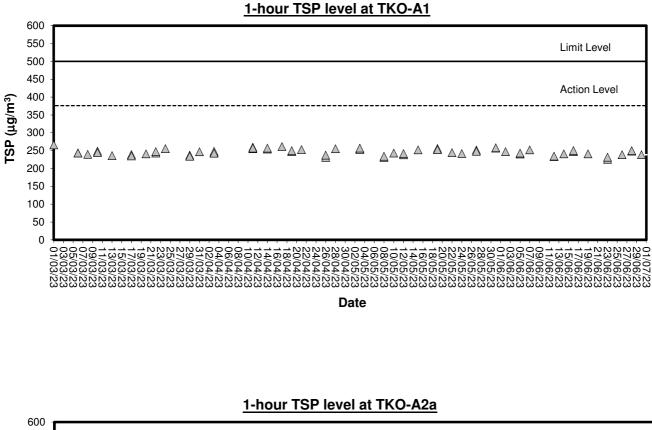


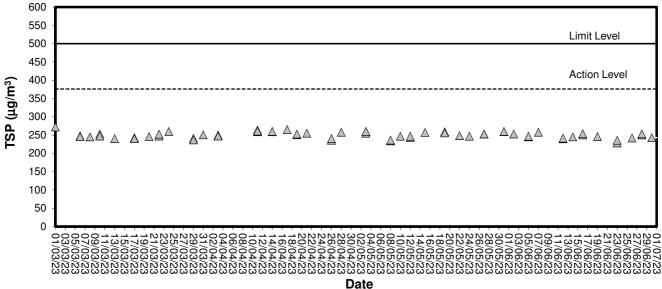


В

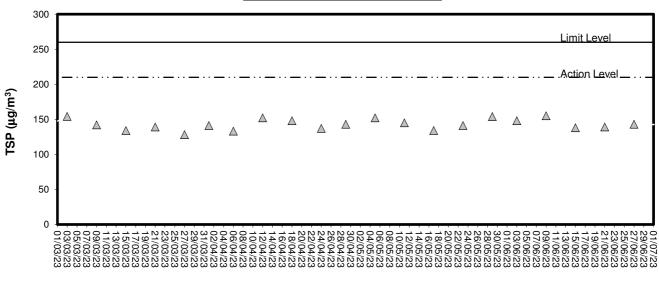
Graphical Plots of Air Quality Monitoring Data





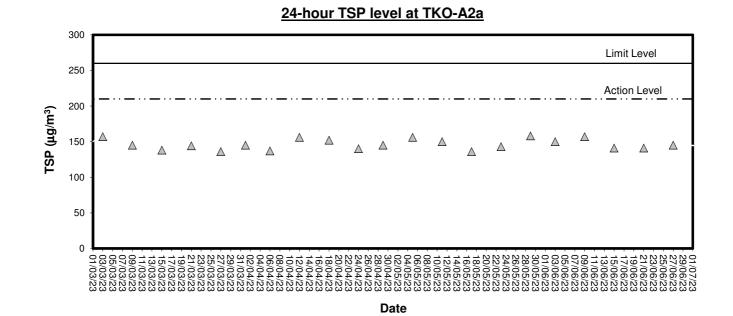






24-hour TSP level at TKO-A1

Date



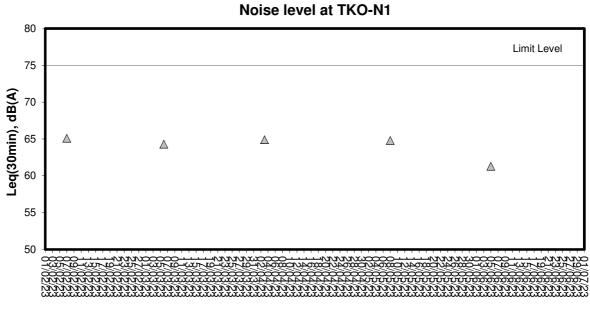


С

Graphical Plots of Noise Monitoring Data



Noise Monitoring (Day-time)



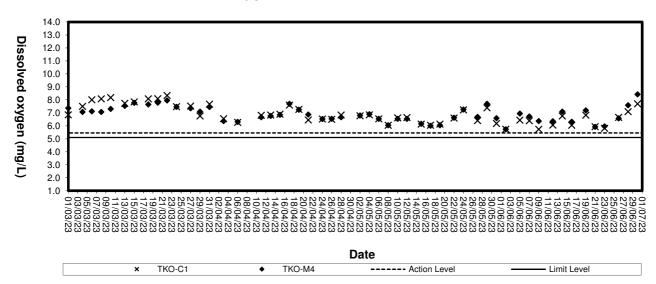
Date



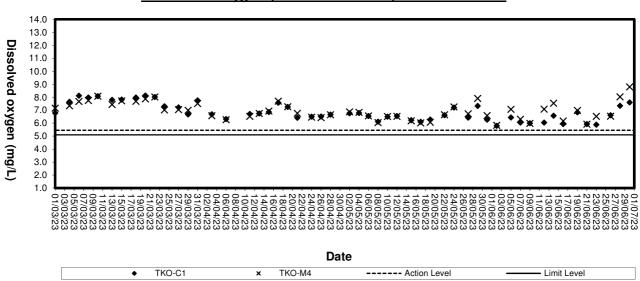
D1

Graphical Plots of Impact Marine Water Quality Monitoring Data



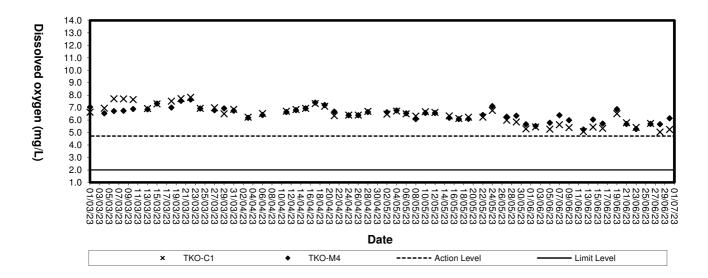


Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide



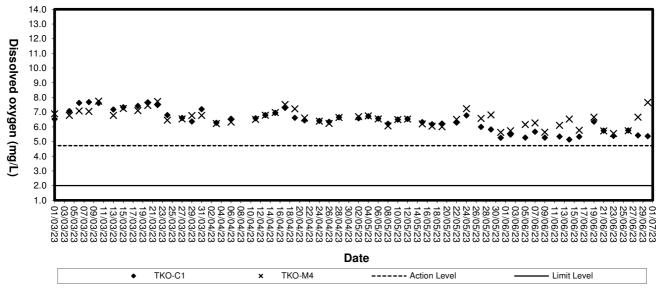
Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide



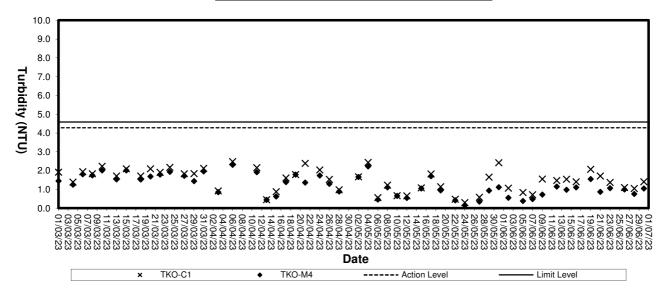


Dissolved Oxygen (Bottom) at Mid-Flood Tide



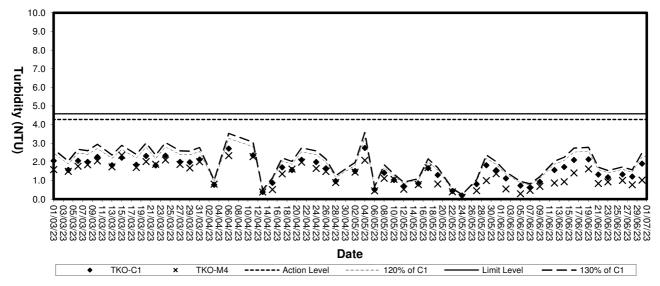




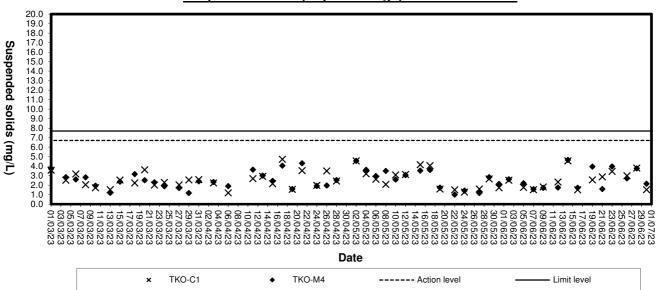


Turbidity (Depth-average) at Mid-Flood Tide









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

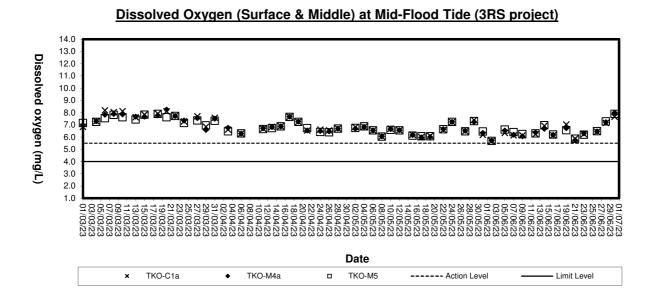
Suspended solids (Depth-average) at Mid-Flood Tide

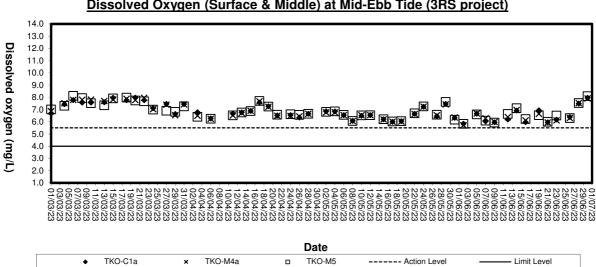


D2

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

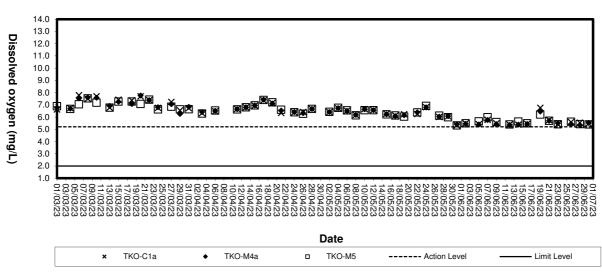




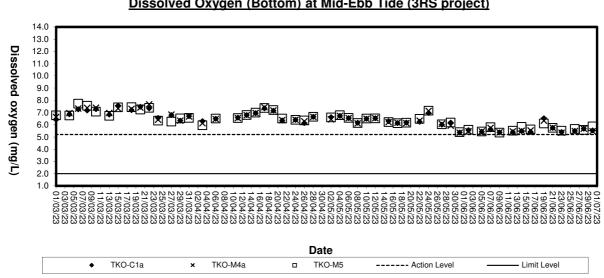


Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide (3RS project)



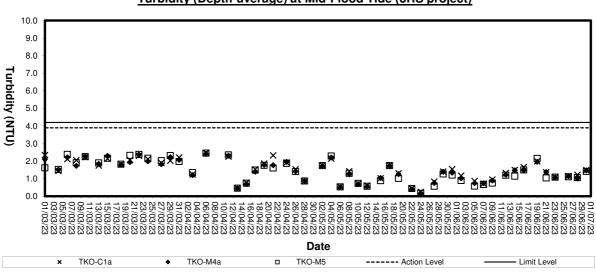


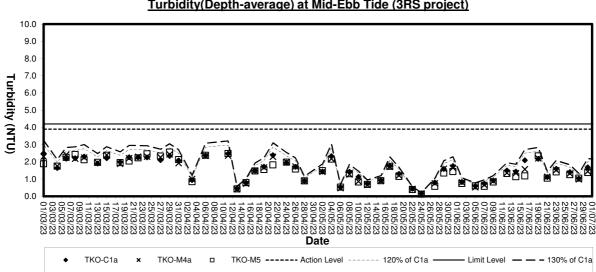
Dissolved Oxygen (Bottom) at Mid-Flood Tide (3RS project)



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



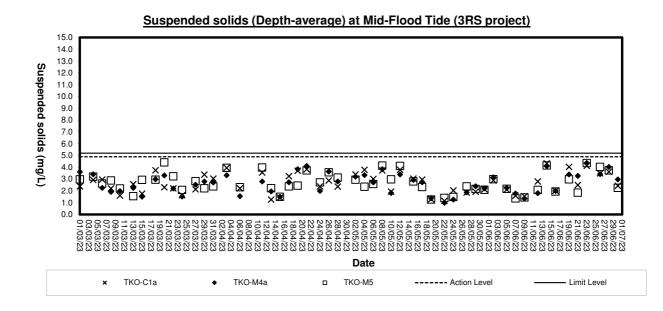


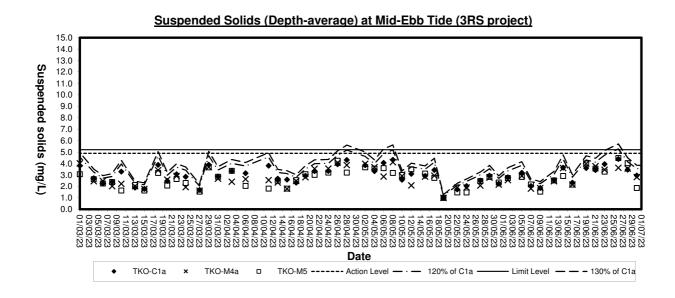


Turbidity(Depth-average) at Mid-Ebb Tide (3RS project)

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









Ε

Environmental Quality Performance (Action / Limit Levels)



Action and Limit Levels for Air Quality

Action and Limit Levels for 1-Hour TSP

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

Action and Limit Levels for 24-Hour TSP

Location	Action Level, µg/m ³	Limit Level, µg/m ³		
A1	210	1		
A2	7 210	260		

Action and Limit Levels for Noise

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

Action and Limit Levels for Water Quality

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

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

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



F

Event-Action Plans

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

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

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

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

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Action level ET Leader Action ET Leader ET Leader Contractor Noity ETD and other relevant 1. Noity ETD and other relevant 1. Check monitoring data periodes in writing 24 hours of the summerial agencies in writing 24 hours of the same sampling days 2. Repeat In-situ measurement 2. Confin Tassessment Processourie 3. Noity Contractor in writing periodes in writing 24 hours of the same same sampling days 3. Confin Tassessment 3. Confin Tassessment Consecutive Within 24 hours of sampling days 3. Consecutive writing processedance 3. Confin Tassessment 3. Confin Tassessment Consecutive Secury out investigation to the Contractor in writing addise contractor in the proposed measures for the miligation measures for the miligation measures in writing addise contractor in and dote to the construction works 3. Discuss with ET, ET and Contractor is addise contractor in writing addise contractor in and dote to the construction works Construction works Fepotification of an ecceedance in writing addise contractor in the specied measures writin addise contractor in the specied measures writin and dote contractor in the specied measures writin an exceedance is due to contractor in the spreserves	Event	<u> </u>		Ľ	EVENT AND ACTION PLAN FOR WATER QUALITY	E E	IR WATER QUALITY		
ET Leader Contractor ER Ieveil 1. Identify source(s) of impact; Notify ED and other relevant 1. ded by 2. Repart in writing 1. Notify ED and other relevant 1. ded by 2. Repart in writing 2. Notify Contractor in writing athon of exceedance writing writin A hours of the identification of the relevant 2. active 3. Notify Contractor in writing 2. Rectify unacceptable practice; 3. Writing writin A hours of the identification of the identification of the exceedance 3. active 3. Notify Contractor in writing 2. Check monitoring data, all 4. Check monitoring data, all 3. Check all plant and writing writin A hours of the identification of exceedance 3. Require contractor to proposed 4. 5. Carry out investigation to the Contractor if methods; 5. Submit the results of the investigation to the Contractor of an investigation to the contractor if an indigation measures identification of exceedance 4. Constactor sonstruction works 4. 6. Investigation of the contractor if an adverse struction works 5. Assess the effectivenees of the investigati					ACTIO	N			
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2. Repeat m-sutrement within 24 hours of the than one cutive 3. worting within 24 hours of the than one cutive 3. within 24 hours of the than one cutive 3. within 24 hours of the than one cutive 3. within 24 hours of the than one cutive identification of the than one cutive identification of the than one cutive identification of the than one identification of the the contractor on the proposed methods; 3. Check and part and than and than a than one identification of the than one identification of the the contractor on the proposed methods; 3. Check and part and than a than a than a than a thours of the identification of the the contractor on the proposed methods; 3. Check and part and than a the the construction works and advise contractor within 4 working days of the the construction works are implemented and propose miligation the analysed problem if related to the the construction works are properly inplemented and avoise contractor within 4 working days of the miligation measures of the miligation of an exceedance. 3. Check and the construction of an exceedance identification of an exceeda	Action level	·		<u>-</u>	Notify IEC and ER in writing		Notify EPD and other relevant	~`	Check monitoring data
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4. Check monitoring data, all plant, equipment and contractor's working methods; Contractor's working methods;4. Consider changes of working methods;Contractor on the proposed mitigation measures;5. Carry out investigation (a contractor's working days of investigation to the contractor investigation to the contractor investigation to the contractor investigation of exceedance and advise contractor if and advise contractor if exceedance is such in 3 working days of identification of exceedance and advise contractor if exceedance is such in 3 working days of identification of exceedance investigation4. Constactor on the proposed miligation measures of the investigation and propose mitigation and advise contractor if and advise contractor if and advise contractor if exceedance be writhin 3 working days of the miligation measures of the miligation measures4. Ensure remedial measures the miligation measures the miligation measures the miligation measures4.7. Discuss mitigation an exceedance with IEC and Contractor within an exceedance and propose miligation an exceedance tare implemented7. Discuss mile the agreed monitoring frequency to daily; to Repeat measurement on next5.	sampling days		identification		equipment;	~i	Discuss with IEC, ET and	က်	Discuss with ET, ER and
plant, equipment and Contractor's working methods;methods;methods;methods;Carry out investigation Carry out investigation investigation to the contractor investigation to the contractor identification of an and advise contractor if entification of exceedance and advise contractor if entification of and advise contractor within works3. Require contractor to propose the contractor to propose and advise contractor and advise contractor and advise contractor4.Ensure and advise contractor and advise contractor6.Discuss within the mitigation measures and advise of the mitigation measures the mitigation measure4.Discuss mitigation an exceedance tare implemented; Prepare to increase the monitoring frequency to daily; day of exceedance.5.	- -	4	-	4.	Consider changes of working		Contractor on the proposed		Contractor on the
Contractor's working methods;5. Submit the results of the investigation to the Card ER within 3 working days of investigation to the Contractor 			plant, equipment and		methods;		mitigation measures;		mitigation measures.
Carry out investigation Report the results of investigation to the Contractor within 3 working days of investigation to the Contractor within 3 working days of identification of exceedance and advise contractor if exceedance is due to contractor's construction worksinvestigation to IEC and ER analysed problem if related to the construction worksReport the results of investigation to the Contractor identification of exceedance and advise contractor if exceedance is due to contractor's construction worksinvestigation to IEC and ER and avise contractor if enalysed problem if related to the construction works6. Discuss with IEC and advise contractor if exceedance identification of an exceedance4.7. Implement the agreed monitoring frequency to daily, day of exceedance.5.			Contractor's working methods;	പ	Submit the results of the	က်	Require contractor to propose	4	Review contractor's
Report the results of investigation to the Contractor within 3 working days of investigation to the Contractor within 3 working days of and advise contractor if and advise contractor if exceedance and advise contractor if exceedance is due to contractor's construction workswithin 3 working days of identification of an exceedance and advise contractor if measures to IEC and ER within 16 contractor within and propose mitigation measures to IEC and ER within 16 contractor within and propose mitigation morkswithin 3 working days of the construction works are properly implemented and propose mitigation fector and ER with IEC and Contractor within the mitigation measures the mitigation measures the mitigation measures the mitigation measures the mitigation measures the mitigation measures the mitigation measure the mi		ы. С	-		investigation to IEC and ER		remedial measures for the		mitigation measures
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exceedance is due to contractor's construction worksmeasures to IEC and ER within 4 working days of 			and advise contractor if		and propose mitigation	Ω.	Assess the effectiveness of	ഗ്	Assess the effectiveness
contractor's construction workswithin 4 working days of identification of an biscuss mitigation measures with IEC and Contractor within 4 working of identification of an exceedance Ensure mitigation measures e identification of an exceedance Ensure mitigation measures within reasonable time scale Prepare to increase the monitoring frequency to daily;with 14 working days of identification of an exceedance mitigation measures within reasonable time scale monitoring frequency to daily;. Repeat measurement on next day of exceedance.within 4 working days of identification of an exceedance mitigation measures within reasonable time scale			exceedance is due to		measures to IEC and ER		the mitigation measure		of the implemented
works Discuss mitigation measures with IEC and Contractor within 4 working of identification of an exceedance Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; . Repeat measurement on next day of exceedance.			contractor's construction		within 4 working days of				mitigation measures.
Discuss mitigation measures with IEC and Contractor within 7. 4 working of identification of an exceedance Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; . Repeat measurement on next day of exceedance.			works		identification of an				
with IEC and Contractor within 7. 4 working of identification of an exceedance Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; . Repeat measurement on next day of exceedance.		۲.	_		exceedance				
4 working of identification of an exceedance Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; . Repeat measurement on next day of exceedance.			with IEC and Contractor within	~	Implement the agreed				
an exceedance Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; . Repeat measurement on next day of exceedance.			4 working of identification of		mitigation measures within				
			an exceedance		reasonable time scale				
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			are implemented;						
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EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE
EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE

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

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

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Work Programme

ID	•	Task Name		Baseline Start	Baseline Finish	Start	Finish	Duration	Predec		Total Slack	Actual Start	Actual Finish	% Complet	lar '23		Apr '23
1	0	Contract duration of Contract CV/2021/9		Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days			0 days	NA	NA	0%	13 20	27	3 10 17
		Contract date , Date of the Letter of Acceptance (assumed)			Mon 20/12/21		Mon 20/12/21	0 days			742 days		NA	0%			
3	.	Starting Date of the Works		Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	0 days			729 day	s NA	NA	0%			
4		Starting Date of Section 1 of the Works		Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	0 days			0 days	NA	NA	0%			
5		Starting Date of Section 2 of the Works		Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	0 days			0 days	NA	NA	0%			
6		Starting Date of Section 3 of the Works		Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	0 days			0 days	NA	NA	0%			
7	-	Date for Completion of the Works		Sun 31/12/23	Sun 31/12/23	Sun 31/12/2	3 Sun 31/12/23	0 days			1 day	NA	NA	0%			
8		Completion Date of Section 1 of the Works		Sun 31/12/23	Sun 31/12/23	Sun 31/12/2	3 Sun 31/12/23	0 days			0 days	NA	NA	0%			
9		Completion Date of Section 2 of the Works		Sun 31/12/23	Sun 31/12/23	Sun 31/12/2	3 Sun 31/12/23	0 days			0 days	NA	NA	0%			
10		Completion Date of Section 3 of the Works		Sun 31/12/23	Sun 31/12/23	Sun 31/12/2	3 Sun 31/12/23	0 days			0 days	NA	NA	0%			
11		Planned completion dates		Sun 31/12/23	Sun 31/12/23	Sun 31/12/2	3 Sun 31/12/23	0 days			0 days	NA	NA	0%			
12		Planned competion date of Section 1		Sun 31/12/23	Sun 31/12/23	Sun 31/12/2	3 Sun 31/12/23	0 days			0 days	NA	NA	0%			
13		Planned competion date of Section 2		Sun 31/12/23	Sun 31/12/23	Sun 31/12/2	3 Sun 31/12/23	0 days			0 days	NA	NA	0%			
14		Planned competion date of Section 3		Sun 31/12/23	Sun 31/12/23	Sun 31/12/2	3 Sun 31/12/23	0 days			0 days	NA	NA	0%			
15		Access Date of the Site		Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	0 days			729 day	s NA	NA	0%			
16	<u>~</u> @_	Portion A2, A3a, A3b, A3c, A4, A5a, A5b, A7c2, A (within 60 days after starting date)	10 and A11	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	0 days			0 days	Sat 1/1/22	Sat 1/1/22	100%			
17	· _	Portion B1, B3, B6a, B6b and B7 (within 60 days a date)			Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	0 days			0 days	Sat 1/1/22	Sat 1/1/22	100%			
18	√ ₽	Portion A1. A7a, A7b, A7c1, A9, A9a and B6c (7 da advance notice after starting date)		Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	0 days			0 days	Sat 1/1/22	Sat 1/1/22	100%	-		
19	<u><</u>	Portion B6c (7 day's advance notice after starting c		Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	0 days			0 days	Sat 1/1/22	Sat 1/1/22	100%	-		
		Hand back of the Site					3 Sun 31/12/23	0 days			0 days	NA	NA	0%	-		
21		Portion A2, A3a, A3b, A3c, A4, A5a, A7c2, A10 and at an earlier date notified by the Project Manager w days' advance notice)		Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	0 days			0 days	NA	NA	0%			
22		Portion A1, A7b, A7c1, A9 and A9a (or at an earlie notified by the Project Manager with 30 days' advar		Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	0 days			0 days	NA	NA	0%			
23	•••	Portion B1, B3, B6a, B6b and B7 (or at an earlier d notified by the Project Manager with 30 days' advan	nce notice)		Sun 31/12/23	31/12/23	Sun 31/12/23	0 days			0 days	NA	NA	0%			
24		Portion B6c (or at an earlier date as notified by the Manager with 30 days' advance notice)			Sun 31/12/23	31/12/23	Sun 31/12/23	0 days			0 days	NA	NA	0%			
25		Section 1 of the Works - Tseung Kwan O Area 1 Bank		Sat 1/1/22	Sun 31/12/23		Sun 31/12/23	730 days			0 days	Sat 1/1/22		47%			
	~	Taking over the existing facilities at the Tseung Area 137 Fill Bank within Portion A of the Site		Sat 1/1/22		Sat 1/1/22	Sat 1/1/22	-			0 days	Sat 1/1/22	Sat 1/1/22	100%	-		
		Operation of the the Tseung Kwan O Area 137 within Portion A of the Site		Sat 1/1/22	Sun 31/12/23		Sun 31/12/23	730 days			0 days		NA	49%			
	<u>.</u> 2	Operation and maintenance of the surveillance within Portion A of the Site	-	Sat 1/1/22	Sun 31/12/23		Sun 31/12/23	730 days			0 days	Sat 1/1/22	NA	49%	-		
29	<u>s</u> ¢	Operation and maintenance of the existing tipple the Tseung Kwan O Area 137 Fill Bank within P the Site		Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days	2055	U	0 days	Sat 1/1/22	NA	49%			
30	<u> 1</u>	Provision, operation and maintenance of the Cru Plant at the Tseung Kwan O Area 137 Fill Bank Portion A of the Site		Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days	26SS	0	0 days	Sat 1/1/22	NA	49%			
31	<u> 1</u>	Operation and maintenance of the dewatering p Tseung Kwan O Area 137 Fill Bank within portic Site.	plant at the on A of the	Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days	26SS	0	0 days	Sat 1/1/22	NA	49%			
32	. C.	Collection and delivery of Public Fill by barges f Chai Wan and Mui Wo Barging Points to the TK 137 Fill Bank within Portion A of the Site		Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days	26SS	0	0 days	Sat 1/1/22	NA	49%			
	I		Task	1			External Tasks	<u> </u>				Duration-only	,			Exter	nal Tasks
												,					
Project:	3 month	n rolling programme Jan23-mar 23 CV/2021/09	Split				External Miles		•			Manual Summ		•			nal Milesto
	0/12/202		Milesto	ne	•		Inactive Miles	tone				Manual Summ	nary	•		Progr	ress
			Summa	ry			Inactive Sumr	mary				Start-only				Dead	line
			Project	Summary	\bigtriangledown		Manual Task		\diamond		1	Finish-only				Slack	
				- • •					Page 1								

Apr '23 3 10 17 24	May '23 1 8 15 22 2	Jun '23 29 5 12 19 26 30/	Jul 5 3 10
		30/	5/23
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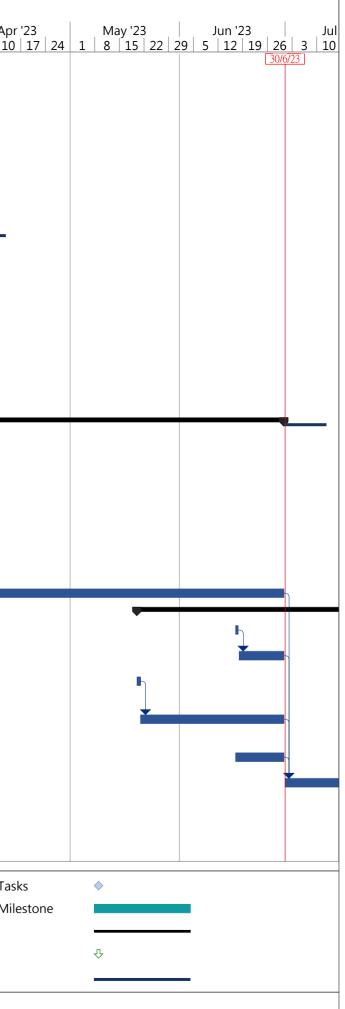
ID		Task Name		Baseline Start	Baseline Finish	Start	Finish	Duration			Total Slack	Actual Start	Actual Finish	% Complet	lar '23		Apr '
	0									unovia					13 20	27	
33		Construction of Gabion wall		NA	NA		Sun 31/12/23	681 days			0 days	Sat 19/2/22		14%		<u>1/4/23</u>	
34	 Image: A set of the set of the	Preparing and submitting a method statemen approval	ent for	Sat 19/2/22	Fri 4/3/22	Sat 19/2/22	Wed 2/3/22	12 days		2	0 days	Sat 19/2/22	Wed 2/3/22	100%			
35	 Image: A second s	Preparing and submitting the material submi	ission	Sat 5/3/22	Fri 18/3/22	Sat 19/2/22	Wed 2/3/22	12 days		2	0 days	Sat 19/2/22	Wed 2/3/22	100%			
36	 Image: A second s	Obtaining approval from the Project Manage	er	Sat 19/3/22	Fri 1/4/22	Tue 26/4/22	Tue 26/4/22	1 day	35,34	2	0 days	Tue 26/4/22	Tue 26/4/22	100%			
37	<u> 11</u>	Construction of Gabion wall		Sat 2/4/22	Sun 31/12/23	Mon 4/7/22	Sun 31/12/23	546 days		7	0 days	Mon 4/7/22	NA	10%			
38	 Image: A set of the set of the	Re-surfacing of the access road at A11 TKO	FB	NA	NA	Mon 21/3/22	Fri 22/4/22	33 days			0 days	Mon 21/3/22	Fri 22/4/22	100%			
39	~	Submission of method statement of re-surfa	acing the	NA	NA	Mon 21/3/22	Fri 25/3/22	5 days		0	0 days	Mon 21/3/22	Fri 25/3/22	100%			
40	\checkmark	Obtaining approval from the Project Manage		NA	NA	Thu 7/4/22	Thu 7/4/22	1 day	39	2	0 days	Thu 7/4/22	Thu 7/4/22	100%			
41	~	Milling off the existing pavement, overlaying pavement on the access road	new	NA	NA	Fri 15/4/22	Fri 22/4/22	8 days	40	1	0 days	Fri 15/4/22	Fri 22/4/22	100%			
42	~	PMI no.3 Trial Production of blanket layer ma recycled from public fill	aterial	Tue 28/6/22	Wed 24/8/22	Tue 28/6/22	Wed 30/11/22	156 days			0 days	Tue 28/6/22	Wed 30/11/22	100%			
43	\checkmark	Submission of method statement		Tue 28/6/22	Fri 29/7/22	Tue 28/6/22	Fri 29/7/22	32 days		1	0 days	Tue 28/6/22	Fri 29/7/22	100%			
44	√	Obtaining approval from the Project Manage	er	Sat 30/7/22	Sat 20/8/22	Wed 17/8/22	Wed 17/8/22	1 day		2	0 days	Wed 17/8/22	Wed 17/8/22	100%			
45	 Image: A second s	Manufacturing and delivery of screening mad	chine	Fri 22/7/22	Thu 11/8/22	Fri 22/7/22	Thu 11/8/22	21 days		2	0 days	Fri 22/7/22	Thu 11/8/22	100%			
46	~	Trial Production of blanket layer material		Mon 22/8/22	Wed 24/8/22	Mon 17/10/22	Wed 30/11/22	45 days		1	0 days	Mon 17/10/22	Wed 30/11/22	100%			
47		PMI no.24 Implementation of C easy system	at TKOFB	Mon 22/8/22	Tue 27/12/22	Tue 30/8/22	Mon 23/1/23	147 days			8 days	Tue 30/8/22	NA	70%			
48	v	Submission of method statement for approva	al	Mon 22/8/22	Sun 28/8/22	Tue 30/8/22	Tue 30/8/22	1 day			0 days	Tue 30/8/22	Tue 30/8/22	100%			
49	V	Obtaining approval from the Project Manage	er	Mon 29/8/22	Sun 18/9/22	Wed 31/8/22	Wed 31/8/22	1 day	48	2	0 days	Wed 31/8/22	Wed 31/8/22	100%			
50	~	Ordering and delivery of C easy system hard site	dware to	Mon 19/9/22	Wed 2/11/22	Thu 1/9/22	Thu 8/9/22	8 days	49	3	0 days	Thu 1/9/22	Thu 8/9/22	100%			
51	 Image: A second s	Installation of the C Easy system		Thu 3/11/22	Wed 16/11/22	Fri 9/9/22	Tue 27/9/22	19 days	50	2	0 days	Fri 9/9/22	Tue 27/9/22	100%			
52	 Image: A second s	Trail run of the system		Thu 17/11/22	Wed 30/11/22	Tue 22/11/22	Wed 30/11/22	9 days	51	2	0 days	Tue 22/11/22	Wed 30/11	100%			
53	<u> 11</u>	Parallel run with the old system		Thu 1/12/22	Mon 26/12/22	Thu 1/12/22	Sun 22/1/23	53 days	52	2	8 days	Thu 1/12/22	NA	50%			
54		Operation with C easy system individually		Tue 27/12/22	Tue 27/12/22	Mon 23/1/23	Mon 23/1/23	1 day	53	0	8 days	NA	NA	0%			
55		Handing over the facilities at the Tseung Kwan Fill Bank within Portion A of the Site to the Emp	oloyer			31/12/23	Sun 31/12/23		8SS		0 days		NA	0%			
		Planned Completion Date (Section 1)			Sun 31/12/23			0 days			1 day		NA	0%			
		Section 2 of the Works - Tuen Mun Area 38 Fill		Sat 1/1/22	Sun 31/12/23		Sun 31/12/23	730 days			0 days		NA	51%			
58	~	Taking over the existing facilities at the Tuen Mu Fill Bank within Portion B of the Site					Sat 1/1/22				0 days		Sat 1/1/22	100%			
59	<u>11</u>	Operation of the Tuen Mun Area 38 Fill Bank wi B of the Site	ithin Portion	Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days	222	0	0 days	Sat 1/1/22	NA	49%			
60	<u></u>	Operation and maintenance of the surveillance within Portion B of the Site	system	Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days		0	0 days	Sat 1/1/22	NA	49%			
	*	Operation and maintenance of the existing tippi the Tuen Mun Area 38 Fill Bank within Portion E	B of the Site		Sun 31/12/23		Sun 31/12/23	730 days			0 days		NA	49%			
62	<u> 1</u>	Operation and Maintenance of the Crushing Pla Tuen Mun Area 38 Fill Bank within Portion B of	ant at the the Site	Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days	5SS	0	0 days	Sat 1/1/22	NA	49%			
63		Operation and maintemance of glass cullet sto compartment at the Tuen Mun Area 38 Fill Ban Portion B of the Site	orage	Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days	5SS	0	0 days	Sat 1/1/22	NA	49%			
64	~	Portion B of the Site PMI no.05 Construction of vehicle washing h facilities	house	Wed 6/4/22	Fri 2/9/22	Wed 6/4/22	Sun 2/10/22	180 days			0 days	Wed 6/4/22	Sun 2/10/22	100%			
65	~	Submission of method statement of vehicle house facilities	washing	Wed 6/4/22	Wed 6/4/22	Wed 6/4/22	Wed 6/4/22	1 day		1	0 days	Wed 6/4/22	Wed 6/4/22	100%			
	1		Task				External Tasks	;				Duration-only				Exterr	nal Task
			Split				External Miles	tone	\diamond			Manual Summa	ary Rollup 🔹	•		Exterr	nal Mile
		rolling programme Jan23-mar 23 CV/2021/09	Milestor	ne	٠		Inactive Miles	tone				Manual Summa				Progre	
		-4]			•									•		0	
	0/12/202		C	n (In active Com	nari				Ctart and				D ~ ''	luna
Project: Date: [3	0/12/202		Summa	ry Summary	-		Inactive Sumr Manual Task	nary	\diamond			Start-only Finish-only				Deadl Slack	

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ID		Task Name	Baseline Start	Baseline Finish	Start	Finish	Duratior	Predec		Total Slack	Actual Start	Actual Finish	% Complet Iar '2	o	Apr 122	May 122	lun 100	
	Ð								anowa						Apr '23 3 10 17 24	May '23 1 8 15 22	Jun '23 29 5 12 19	26 3 10
66	 	Obtaning approval from the Project Manager			Mon 25/4/22		1 day	65	2	0 days		Mon 25/4/22		1/4/2	3			30/6/23
67		Fabrication and delivery of the vehicle washi facilities materials on site	0	Mon 8/8/22	Fri 10/6/22		70 days		5	0 days		Thu 18/8/22						
68	 	Installation of the vehicle washing house fac		Thu 1/9/22	Tue 13/9/22		17 days		2	0 days		Thu 29/9/22						
69		Trial run of vehicle washing house facilities	Fri 2/9/22	Fri 2/9/22	Sun 2/10/22	Sun 2/10/22	1 day	68	0	0 days	Sun 2/10/22	Sun 2/10/22	100%					
70		PMI no.20 Implementation of C easy system	at TMFB Mon 22/8/22	Tue 27/12/22	Wed 31/8/22	Mon 23/1/23	146 days			8 days	Wed 31/8/22	2 NA	68%					
71	 Image: A second s	Submission of method statement for approva			Wed 31/8/22		1 day		1	0 days		2 Wed 31/8/22						
72	<u> </u>	Obtaining approval from the Project Manage Ordering and delivery of C easy system hard		Sun 18/9/22 Wed 2/11/22	Thu 1/9/22 Sat 17/9/22		1 day 5 days	71 72	2	0 days 0 days	Thu 1/9/22 Sat 17/9/22	Thu 1/9/22 Wed 21/9/22						
	•	site					-											
74	V -	Installation of the C Easy system		Wed 16/11/22			18 days	73	2	0 days	Thu 22/9/22							
75	∠	Trail run of the system		Wed 30/11/22				74	2	0 days	Thu 24/11/22							
	<u>11</u>	Parallel run with the old system		Mon 26/12/22			53 days		2	8 days	Thu 1/12/22		50%					
		Operation with C easy system individually		Tue 27/12/22			1 day	76	0	8 days	NA	NA	0%					
		Handing over the facilities at the Tuen Mun Area Bank within Portion B of the Site to the Employe	er	Sun 31/12/23	31/12/23	Sun 31/12/23	1 day	9SS	0	0 days	NA	NA	0%					
		Planned Completion Date (Section 2)		Sun 31/12/23			0 days			0 days	NA	NA	0%					
80		Section 3 of the Works - Designated Reclamatic the Mainland	on Sites in Mon 20/12/2	1 Sun 31/12/23	Tue 7/12/21	Sun 31/12/23	755 days			0 days	Tue 7/12/21	NA	6%					
81		Collection and delivery of 2 million tonnes or Fill by vessels from Tseung Kwan O Area 13 and the Tuen Mun Area 38 Fill Bank to the De Reclamation Sites in the Mainland	7 Fill Bank	1 Sun 31/12/23	Tue 7/12/21	Wed 20/12/23	744 days			11 days	Tue 7/12/21	NA	10%					
82	V	1st and 2nd quarter of first year	Mon 20/12/2	1 Thu 31/3/22	Tue 7/12/21	Tue 14/6/22	190 days	1		0 days	Tue 7/12/21	Tue 14/6/22	100%					
83	 Image: A second s	Installing Front End Mobile Unit (FEMU) of proposed vessels		Sun 26/12/21	Fri 20/5/22	Fri 20/5/22	1 day		2	0 days	Fri 20/5/22	Fri 20/5/22	100%					
84	 Image: A second s	Submitting application documents to EPD application of dumping permits	0 for Mon 20/12/21	Mon 20/12/21	Tue 28/12/21	Tue 28/12/21	1 day		0	0 days	Tue 28/12/21	1 Tue 28/12/2	1 100%					
85	V	Obtaining the dumping permit from EPD	Tue 21/12/21	Fri 31/12/21	Wed 25/5/22	Wed 25/5/22	1 day	84	2	0 days	Wed 25/5/22	2 Wed 25/5/22	2 100%					
86 •	V	Submitting Application documents to the for the application of the dumping permit the sea		Mon 20/12/21	Tue 7/12/21	Tue 7/12/21	1 day			0 days	Tue 7/12/21	Tue 7/12/21	100%					
87	~	Obtaining the dumping permits from Mir Ecology and environment of the People's of China through the Employer		Fri 31/12/21	Tue 26/4/22	Tue 26/4/22	1 day		14	0 days	Tue 26/4/22	Tue 26/4/22	100%					
88	 Image: A second s	Obtaining all necessary permits, licenses and concents	approvals Mon 20/12/2	Fri 31/12/21	Wed 25/5/22	Wed 25/5/22	1 day		14	0 days	Wed 25/5/22	2 Wed 25/5/22	2 100%					
89	V	Collection and delivery of 166666 tonnes	of Public Fil Sat 1/1/22	Thu 31/3/22	Wed 25/5/22	Tue 14/6/22	21 days		10	0 days	Wed 25/5/22	2 Tue 14/6/22	100%					
90	V -	3rd quarter of first year	Fri 20/5/22	Fri 30/9/22	Tue 28/12/21	Mon 13/6/22	168 days			0 days	Tue 28/12/	Mon 13/6/22	2 100%					
91	×	Submitting application documents to EPD application of dumping permits		Fri 17/6/22		Tue 28/12/21	1 day		0	0 days		1 Tue 28/12/2						
92	<u> </u>	Obtaining the dumping permit from EPD	Sat 18/6/22		Wed 25/5/22			91	14	0 days		2 Wed 25/5/22						
93		Submitting Application documents to the for the application of the dumping permit the sea	Employer Fri 20/5/22 of waste at	Fri 20/5/22	Fri 8/4/22	Fri 8/4/22	1 day		0	0 days	Fri 8/4/22	Fri 8/4/22	100%					
94	~	Obtaining the dumping permits from Mir Ecology and environment of the People's of China through the Employer		Thu 30/6/22	Tue 26/4/22	Tue 26/4/22	1 day	93	14	0 days	Tue 26/4/22	Tue 26/4/22	100%					
95	v	Obtaining all necessary permits, licenses	approvals Fri 17/6/22	Thu 30/6/22	Wed 25/5/22	Wed 25/5/22	1 day		0	0 days	Wed 25/5/22	2 Wed 25/5/22	2 100%					
96	<u>,</u>	and concents Collection and delivery of 499998 tonnes	of Public Fil Fri 1/7/22	Fri 30/9/22	Mon 13/6/22	Mon 13/6/22	1 day	95,92,94	4 14	0 days	Mon 13/6/22	Mon 13/6/22	100%					
97	v	4th quarter of first year	Sat 20/8/22	Sat 31/12/22			71 days			0 days	Fri 22/7/22							
			Task			External Task	S				Duration-only			Exter	nal Tasks	•		
			Split			External Mile	stone	۲			Manual Summ	ary Rollup	•	Exter	nal Milestone			
		th rolling programme Jan23-mar 23 CV/2021/09		A				•					•					
ate: [30)/12/20	022]	Milestone	•		Inactive Miles		L			Manual Summ	laly	•	Prog		-		
			Summary	-		Inactive Sum	mary				Start-only	I		Dead	lline	仑		
			Project Summary			Manual Task		\diamond			Finish-only	I		Slack	ζ		_	
								Page 3										

ID		Task Name	Baseline Start	Baseline Finish	Start	Finish	Duration	Predece	1	Total Slack	Actual Start	Actual Finish	% Complet	1		
	0								allowa					lar '23 13 20	27	Apr ' 3 10
98	 Image: A second s	Submitting application documents to EPD for application of dumping permits	Sat 17/9/22	Sat 17/9/22	Fri 22/7/22	Thu 4/8/22	14 days		0	0 days	Fri 22/7/22	Thu 4/8/22	100%		1/4/23	
99	 Image: A set of the set of the	Obtaining the dumping permit from EPD (assumed on 30/9/22)	Sun 18/9/22	Fri 30/9/22	Thu 1/9/22	Mon 5/9/22	5 days	98	2	0 days	Thu 1/9/22	Mon 5/9/22	100%			
100	~	Submiting Application documents to the Employer for the application of the dumping permit of waste at the sea	Sat 20/8/22	Sat 20/8/22	Wed 10/8/22	Wed 10/8/22	1 day		0	0 days	Wed 10/8/22	Wed 10/8/22	100%			
101	~	Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer (assumed on	Sun 21/8/22	Fri 30/9/22	Mon 5/9/22	Mon 5/9/22	1 day	100	14	0 days	Mon 5/9/22	Mon 5/9/22	100%			
102	 Image: A second s	Obtaining all necessary permits, licenses, approvals and concents	Sat 17/9/22	Fri 30/9/22	Mon 5/9/22	Fri 30/9/22	1 day		2	0 days	Mon 5/9/22	Fri 30/9/22	100%			
103	v	Collection and delivery of 333332 tonnes of Public Fil	Sat 1/10/22	Sat 31/12/22	Mon 5/9/22	Mon 19/9/22	15 days	96,102,1	14	0 days	Mon 5/9/22	Mon 19/9/22	100%			
104		1st quarter of second year	Sun 20/11/22	Fri 31/3/23	Sun 20/11/2	2 Fri 31/3/23	132 days			12 days	NA	NA	0%			
105		Submitting application documents to EPD for application of dumping permits	Sun 18/12/22	Sun 18/12/22	Sun 18/12/22	Sun 18/12/22	1 day		0	12 days	NA	NA	0%			
106		Obtaining the dumping permit from EPD (assumed on 31/12/22)	Mon 19/12/22	Sat 31/12/22	Mon 19/12/22	Sat 31/12/22	13 days	105	2	12 days	NA	NA	0%			
107		Submiting Application documents to the Employer for the application of the dumping permit of waste at the sea	Sun 20/11/22	Sun 20/11/22	Sun 20/11/22	Sun 20/11/22	1 day		0	12 days	NA	NA	0%			
108		Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer	Mon 21/11/22	Sat 31/12/22	Mon 21/11/22	Sat 31/12/22	41 days	107	14	12 days	NA	NA	0%			
109		Obtaining all necessary permits, licenses, approvals and concents	Sun 18/12/22	Sat 31/12/22	Sun 18/12/22	Sat 31/12/22	14 days		2	12 days	NA	NA	0%			
110		Collection and delivery of 250000 tonnes of Public F	Sun 1/1/23	Fri 31/3/23	Sun 1/1/23	Fri 31/3/23	90 days	103,109,	14	12 days	NA	NA	0%			
111		2nd quarter of second year	Sat 18/2/23	Fri 30/6/23	Sat 18/2/23	Fri 30/6/23	133 days			12 days	NA	NA	0%			
112		Submitting application documents to EPD for application of dumping permits	Sat 18/3/23	Sat 18/3/23	Sat 18/3/23	Sat 18/3/23	1 day		0	12 days	NA	NA	0%	Ы		
113		Obtaining the dumping permit from EPD (assumed on 31/3/23)	Sun 19/3/23	Fri 31/3/23	Sun 19/3/23	Fri 31/3/23	13 days	112	2	12 days	NA	NA	0%			
114		Submiting Application documents to the Employer for the application of the dumping permit of waste at the sea	Sat 18/2/23	Sat 18/2/23	Sat 18/2/23	Sat 18/2/23	1 day		0	12 days	NA	NA	0%			
115		Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer (assumed on	Sun 19/2/23	Fri 31/3/23	Sun 19/2/23	Fri 31/3/23	41 days	114	14	12 days	NA	NA	0%			
116		Obtaining all necessary permits, licenses, approvals and concents	Sat 18/3/23	Fri 31/3/23	Sat 18/3/23	Fri 31/3/23	14 days		2	12 days	NA	NA	0%			
117		Collection and delivery of 250000 tonnes of Public F	Sat 1/4/23	Fri 30/6/23	Sat 1/4/23	Fri 30/6/23	91 days	110,113,	14	12 days	NA	NA	0%			1
118		3rd quarter of second year	Sat 20/5/23	Sat 30/9/23	Sat 20/5/23	Sat 30/9/23	134 days			12 days	NA	NA	0%			
119		Submitting application documents to EPD for application of dumping permits	Sat 17/6/23	Sat 17/6/23	Sat 17/6/23	Sat 17/6/23	1 day		0	12 days	NA	NA	0%			
120		Obtaining the dumping permit from EPD (assumed on 30/6/23)	Sun 18/6/23	Fri 30/6/23	Sun 18/6/23	Fri 30/6/23	13 days	119	14	12 days	NA	NA	0%			
121		Submiting Application documents to the Employer for the application of the dumping permit of waste at the sea	Sat 20/5/23	Sat 20/5/23	Sat 20/5/23	Sat 20/5/23	1 day		0	12 days	NA	NA	0%			
122		Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer (assumed on	Sun 21/5/23	Fri 30/6/23	Sun 21/5/23	Fri 30/6/23	41 days	121	14	12 days	NA	NA	0%			
123		Obtaining all necessary permits, licenses, approvals and concents	Sat 17/6/23	Fri 30/6/23	Sat 17/6/23	Fri 30/6/23	14 days		2	12 days	NA	NA	0%			
124		Collection and delivery of 250000 tonnes of Public F	Sat 1/7/23	Sat 30/9/23	Sat 1/7/23	Sat 30/9/23	92 days	117,123,	14	12 days	NA	NA	0%			
125		4th quarter of second year	Sun 20/8/23	Sun 31/12/23	Sun 20/8/23	Wed 20/12/23	123 days			11 days	NA	NA	0%	1		
126		Submitting application documents to EPD for application of dumping permits	Sun 17/9/23	Sun 17/9/23	Sun 17/9/23	Sun 17/9/23	1 day		0	12 days	NA	NA	0%			
127		Obtaining the dumping permit from EPD (assumed	Mon 18/9/23	Sat 30/9/23	Mon 18/9/23	Sat 30/9/23	13 days	126	2	12 days	NA	NA	0%			

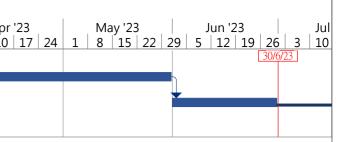
	Task		External Tasks		Duration-only		External Tas
	Split		External Milestone		Manual Summary Rollup	•	External Mil
Project: 3 month rolling programme Jan23-mar 23 CV/2021/09 Date: [30/12/2022]	Milestone	♦	Inactive Milestone		Manual Summary	•	Progress
	Summary		Inactive Summary		Start-only		Deadline
	Project Summary		Manual Task	\diamond	Finish-only	~	Slack



ID	_	Task Name	Baseline Start	Baseline Finish	Start	Finish	Duration	Predece	1	Total Slack	Actual Start	Actual Finish	% Complet	lar '23	Ap
128	0	Submiting Application documents to the Emp	lover Sun 20/8/23	Sun 20/8/23	Sun 20/8/23	Sun 20/8/23	1 day		0	12 days	NA	NA	0%	13 20	27 3 10
120		for the application of the dumping permit of w the sea													
129		Obtaining the dumping permits from Ministry Ecology and environment of the People's Rep of China through the Employer(assumed on 3	oublic	Sat 30/9/23	Mon 21/8/23	Sat 30/9/23	41 days	128	14	12 days	NA	NA	0%		
130		Obtaining all necessary permits, licenses,app and concents		Sat 30/9/23	Sun 17/9/23	Sat 30/9/23	14 days		0	12 days	NA	NA	0%	_	
131		Collection and delivery of 250000 tonnes of I	Public F Sun 1/10/23	Sun 31/12/23	Mon 2/10/23	Wed 20/12/23	80 days	124,130,	14	11 days	NA	NA	0%		
132		Removal, excavation and deposition of stockpile and/or deposited Public Fill within the Designate Reclamation Sites in the Mainland		Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days	6SS		0 days	NA	NA	0%		
133		Removal, excavation and deposition of stockpile and/or deposited public fill	d Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days		14	0 days	NA	NA	0%		
134		Operation and maintenance of the existing navig channel and turning basins in association with existing berthing facilituy at Zone E of the Desig Reclamation Sites in the Mainland	he	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days	6SS		0 days	Sat 1/1/22	NA	20%		
135	<u>198</u>	Operation and maintenance of the existing navig channel and turning basins	ation Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days		14	0 days	Sat 1/1/22	NA	20%		
136		Design, construction, operation and maintenance the new navigation channel and turning basins is association with the new berthing facility at Zon the Designated Reclamation Sites in the Mainlar (subject to Project's Manager's instruction)	in e B of	Sat 12/12/09	Thu 16/6/22	Sun 31/12/23	564 days			0 days	NA	NA	0%		
137		Obtaining the dumping permits from Ministry of Ecology and environment of the People's Repub China through the Employer for Zone A & B (as on 31/12/21)	lic of	Mon 31/1/22	Thu 16/6/22	Thu 16/6/22	1 day		0	2 days	NA	NA	0%		
138		Preparation of design submission	Sat 1/1/22	Sun 30/1/22	Fri 17/6/22	Sat 16/7/22	30 days	137	7	2 days	NA	NA	0%		
139		Obtaining all necessary design approvals and co	oncents Mon 31/1/22	Tue 1/3/22	Sun 17/7/22	Mon 15/8/22	30 days	138	7	2 days	NA	NA	0%		
140		Construction of the new navigation channel and basins	turning Wed 2/3/22	Fri 29/7/22	Tue 16/8/22	Thu 12/1/23	150 days	139	14	2 days	NA	NA	0%		
141		Obtaining the construction completion certificate	Sat 30/7/22	Sun 28/8/22	Fri 13/1/23	Sat 11/2/23	30 days	140	7	2 days	NA	NA	0%		
142		Operation and maintenance of navigation chanr turning basins	nel and Mon 29/8/22	Sun 31/12/23	Tue 14/2/23	Sun 31/12/23	321 days	141	14	0 days	NA	NA	0%		
143		Design, construction, operation and maintenance new berthing facilities at Zone B of the Designate Reclamation Sites in the Mainland (subject to Pre Manager's instruction)	ed	Sun 31/12/23	Thu 16/6/22	Sun 31/12/23	564 days			0 days	NA	NA	0%		
144		Obtaining the dumping permits from Ministry of Ecology and environment of the People's Repub China through the Employer for Zone A & B (as on 31/12/21)	lic of sumed	Fri 31/12/21		Thu 16/6/22	1 day			0 days	NA	NA	0%	_	
145		Preparation of design submission	Sat 1/1/22	Sun 30/1/22		Sat 16/7/22	30 days			0 days	NA	NA	0%	_	
146		Obtaining all necessary design approvals and co				Mon 15/8/22				0 days	NA	NA	0%	_	
147		Construction of the berthing facilities	Wed 2/3/22	Sun 28/8/22	Tue 16/8/22		180 days			0 days	NA	NA	0%	_	
148		Obtaining the construction completion certificate				Mon 13/3/23		147		0 days	NA	NA	0%		
149		Operation and maintenance of new berthing faci				Sun 31/12/23	293 days	148		0 days	NA	NA	0%	_	
150		Design and construction of seawalls (approxim 200m) in association with new berthing facility a B of the Designated Reclamation Sites in the Ma	t Zone	Sat 4/2/23	Sun 1/1/23	Fri 30/6/23	181 days			184 days	NA	NA	0%		
151		Obtaining the dumping permits from Ministry of Ecology and environment of the People's Repub China through the Employer for Zone A & B	Sat 1/1/22 lic of	Sat 1/1/22	Sun 1/1/23	Sun 1/1/23	1 day		0	184 days	NA	NA	0%	-	
152		Preparation of design submission (PMI no18)	Sun 2/1/22	Mon 31/1/22	Mon 2/1/23	Tue 31/1/23	30 days	151	7	184 days	NA	NA	0%		
		т	ask			External Task	s			Du	uration-only	/			External Ta
		s	plit			External Mile	stone	\diamond		Μ	anual Sumn	nary Rollu	р 🔶		External Mi
		rolling programme Jan23-mar 23 CV/2021/09	/ ilestone	٠		Inactive Mile	stone				anual Sumn		•		Progress
				•			50000				andar Summ	ion y	•		-
	50/12/202					1				<u> </u>					
Project Date: [3	50/12/202		ummary Project Summary	-		Inactive Sum Manual Task					art-only nish-only				Deadline Slack



ID	0	Task Name	Baseline Start	Baseline Finish	Start	Finish	Duration			Total Slack		ctual nish	% Complet _i I	ar '23	27 2	Apr'
153		Obtaining all necessary design approvals and c	oncents Tue 1/2/22	Wed 2/3/22	Wed 1/2/23	Thu 2/3/23	30 days	152	7	184 days	NA NA	4	0%	13 20	27 3 1/4/23	10
		Construction of seawalls (subject to Project's M	anager's Thu 3/3/22	Tue 31/5/22	Fri 3/3/23	Wed 31/5/23	90 days	153		184 days		A	0%			
155		instruction) Obtaining the construction completion certificate (subject to Project's Manager's instruction)	e Wed 1/6/22	Thu 30/6/22	Thu 1/6/23	Fri 30/6/23	30 days	154	7	184 days	NA NA	A	0%			
156		Planned Completion Date (Section 3)	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	3 Sun 31/12/23	0 days		-	1 day	NA NA	۱.	0%			
			Tack			Eutomal Tasl					uration only					Task
			Task			External Task					iration-only		•		External	
Project: :	3 month		Split			External Mile	stone	¢		Ma	anual Summary	Rollup			External	l Miles
Project: 3 Date: [30	3 month 0/12/202	n rolling programme Jan23-mar 23 CV/2021/09	Split Milestone	•		External Miles Inactive Miles	stone			Ma	anual Summary anual Summary	Rollup			External Progres	l Miles ss
Project: 3	3 month 0/12/202	n rolling programme Jan23-mar 23 CV/2021/09 22]	Split	¢		External Mile	stone stone mary			Ma Ma Sta	anual Summary	Rollup			External	l Miles ss







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Implementation Schedule of Environmental Mitigation Measures (EMIS)



Environmental Mitigation Implementation Schedule

				Implementa	tion Status	
	Environmental Protection Measures	Location	Implemented	Partially implemented	Not implemented	Not Applicable
Ai	Quality					
•	Dust control / mitigation measures shall be provided to prevent dust nuisance.	All areas		\checkmark		
•	A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading / unloading and similar activities should be allowed.	Northern Site Boundary	\checkmark			
•	Water sprays shall be provided and used to dampen materials.	All areas	\checkmark			
•	Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions.	All areas	\checkmark			
•	All vehicles shall be restrict to a maximum speed of 10 km per hour.	All areas	\checkmark			
٠	Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin.	Site Egress	\checkmark			
•	The designated site main haul rout shall be paved or regular watering.	All haul roads	\checkmark			
•	Frequent watering of work site shall be at least three times per day.	All areas	\checkmark			
•	Wheel washing facilities including high pressure water jet shall be provided at the entrance of work site.	Site Egress	\checkmark			
•	Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.	Site Egress	\checkmark			
•	The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.	All areas	\checkmark			
•	Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD.	All areas	\checkmark			
•	When fill material is transfer by belt conveyor systems, the conveyors shall be enclosed on top and 2 sides.	C&DMSF	\checkmark			
•	The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt.	C&DMFS	\checkmark			
•	The level of stockpiling belt conveyor shall be adjustable such that the vertical distance between the belt conveyor and the material landing point is maintained at no more than 1m.	C&DMFS				
•	All plant and equipment should be well maintained e.g. without black smoke emission.		\checkmark			
No	ise Impact		\checkmark			
•	Approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	All areas				
•	Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works.	All areas	\checkmark			
•	Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.	All areas	\checkmark			
•	Air compressors and hand held breakers should have noise labels.	All areas	\checkmark			
•	Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	All areas	\checkmark			
•	Noisy equipment and mobile plant shall always be site away from NSRs.	All areas	\checkmark			



	Location	,	Implementation Status		
Environmental Protection Measures		Implemented	Partially implemented	Not implemented	Not Applicable
Water Quality					
 Drainage system should be adequate and well maintained to prevent flooding and overflow, especially after rain storms. 	All areas	\checkmark			
 The permanent drainage channels should have sediment basin, traps and baffles and maintain properly. 	All areas	\checkmark			
 Temporary intercepting drains should be used at the stockpiling area to divert polluted stormwater to the intercepting channels. Earth bunds and sand bay barriers shall be used to assist the diversion of polluted stormwater to the intercepting channels. 	All areas	\checkmark			
 Manholes should be covered and sealed. 	All areas	\checkmark			
 Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding. 	All areas		\checkmark		
• A buffer distance of at least 100m shall be maintained between the boundary of the public fill stockpiling area and the sea front.	Public fill stockpiling area	\checkmark			
 A buffer distance of at least 20m shall be maintained between the boundary of the C&DMSF and the seafront. 	C&DMFS	\checkmark			
 The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge. 	All areas	\checkmark			
 The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD. 	Temporary Slopes	\checkmark			
 Final slope surfaces, especially those facing to the north of the site shall be treated by compaction, followed by hydroseeding, vegetation planting or sealing with shotconcrete, latex, vinyl, bitumen, or other suitable surface stabilizer approved by CEDD. 	Temporary Slopes	\checkmark			
 Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. 	All areas	\checkmark			
 A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains. 	Wheel Washing facility	\checkmark			
 The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains. 	Wheel Washing facility	\checkmark			
 Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided. The chemical toilets (if use) shall be provided by a licensed contractor, who will be responsible for disposal and maintenance of these facilities. 	All areas	\checkmark			
 Oil intercept in addition of sand / silt removal facilities shall be provided at the car parking areas and work shop. 	All areas	\checkmark			
 Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water. 	Barge Handling Area (BHA)	\checkmark			
 The barges shall be in right size such that adequate clearance in maintained between the vessels and the seabed at all states of the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller wash. 	Barge Handling Area (BHA)	\checkmark			
 All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport. 	Barge Handling Area (BHA)	\checkmark			
 Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer. 	Along the seafront	\checkmark			
 Barges shall not be filled to a level which may cause the overflow of material during loading or transportation. Barge effluents shall be properly collected and treated before disposal. 	Barge Handling Area (BHA)	\checkmark			
 The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities. 	Along the seafront	\checkmark			
Existing silt curtain at the outward side of the basin near the Barging Handling Area throughout the period shall be repair, maintain and service when there is public fill intake by barges to the Fill Bank in accordance with PS Clause 1.68. The total length of the silt curtains shall not be less than 160m, and a gap of about 80m shall be left open for access of barges. The silt curtain shall be properly maintained such that it can also serve the function of refuse containment boom to confine floating refuse.	Along the seafront	\checkmark			
 A waste collection vessel shall be deployed to remove floating debris. 	Along the seafront	\checkmark			



		Location		Implementa	tion Status	
	Environmental Protection Measures		Implemented	Partially implemented	Not implemented	Not Applicable
La	ndscape and Visual					
•	Construction of lighting to avoid spillage and glare	All areas	\checkmark			
•	Hydroseeding	Completed slopes	\checkmark			
•	Hoarding erection	Site boundary	\checkmark			
•	Damage to surrounding area avoided	All areas	\checkmark			
Ot	her Environmental Factors					
•	C&D waste sorted from mixed C&D material shall be transfer to SENT landfill for disposal.	All areas	\checkmark			
•	Plan and stock construction materials carefully to minimise generation of waste.	All areas	\checkmark			
•	Any unused materials or those with remaining functional capacity should be recycled.	All areas	\checkmark			
٠	All generators, fuel and oil storage are within bunded areas.	All areas	\checkmark			
•	Oil leakage from machinery, vehicle and plant is prevented.	All areas		\checkmark		
٠	Bund chemical storage area to 110% capacity.	All areas	\checkmark			
•	Prevent disposal of hazardous materials to air, soil and water body	All areas	\checkmark			
٠	Provide rubbish skips at all work areas	All areas	\checkmark			
•	Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment.	All areas	\checkmark			
•	To encourage collection of aluminium cans by individual collectors, separate labelled bins should be provided to segregate this waste from other general refuse generated by the workforce.	All areas	\checkmark			



11

Statistical Analysis of the Trend of Suspended Solids in the Quarter



For Mid-Flood Tide

Station: M4

<u>t-test</u>

Group Name	Ν	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	6.9690	1.0690	0.3086
Quarterly Mean	38	0	2.6803	1.0037	0.1628

Result:

Difference between means = 4.2887 (95% CI : 3.6103 < Diff < 4.9672)

t-value of difference = 12.2918 (18 degrees of freedom)

Calculated t-value > Critical t-value

Conclusion:

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

Station: C1

<u>t-test</u>

Group Name	Ν	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	6.969	0.950	0.2742
Quarterly Mean	38	0	2.6162	0.9928	0.1611

Result:

Difference between means = 4.3528 (95% CI : 3.6982 < Diff < 5.0074)

t-value of difference = 13.6863 (19 degrees of freedom)

Calculated t-value > Critical t-value

Conclusion:

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



For Mid-Ebb Tide

Station: M4

<u>t-test</u>

Group Name	Ν	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	6.897	1.449	0.4183
Quarterly Mean	38	0	2.5013	0.8050	0.1306

Result:

Difference between means = 4.3957 (95% Cl : 3.7364 < Diff < 5.0550)

t-value of difference = 10.0312 (13 degrees of freedom)

Calculated t-value > Critical t-value

Conclusion:

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

Station: C1

<u>t-test</u>

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	6.933	1.045	0.3017
Quarterly Mean	38	0	2.7798	0.8661	0.1405

Result:

Difference between means = 4.1532 (95% CI : 3.5472 < Diff < 4.7592)

t-value of difference = 12.4804 (16 degrees of freedom)

Calculated t-value > Critical t-value

Conclusion:

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



12

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



For Mid-Flood Tide

Station: C1a

t-test

Group Name	Ν	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	4.1580	1.3670	0.3946
Quarterly Mean	38	0	2.7526	0.9243	0.1499

Result:

Difference between means = 1.4054 (95% CI : 0.7113 < Diff < 2.0994) t-value of difference = 3.3291 (14 degrees of freedom)

Calculated t-value > Critical t-value <u>Conclusion:</u>

There is statistically significant difference between the groups.

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

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

Station: M4a

<u>t-test</u>

Group Name	Ν	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	3.9020	1.1420	0.3297
Quarterly Mean	38	0	2.6969	0.9259	0.1502

Result:

Difference between means = 1.2051 (95% CI : 0.5528 < Diff < 1.8573) t-value of difference = 4.5081 (14 degrees of freedom)

Calculated t-value > Critical t-value

Conclusion:

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

Station: M5

<u>t-test</u>

Group Name	Ν	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	3.9360	1.4140	0.4082
Quarterly Mean	38	0	2.6969	0.9171	0.1488

Result:

Difference between means = 1.2391 (95% CI : 0.5387 < Diff < 1.9394) t-value of difference = 2.8520 (14 degrees of freedom)

Calculated t-value > Critical t-value Conclusion:

There is statistically significant difference between the groups.

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

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



For Mid-Ebb Tide

Station: C1a

t-test

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	4.2860	1.3530	0.3906
Quarterly Mean	38	0	3.0570	0.7825	0.1269

Result:

Difference between means = 1.2290 (95% CI : 0.6003 < Diff < 1.8576) t-value of difference = 2.9925 (13 degrees of freedom)

Calculated t-value > Critical t-value

Conclusion:

There is statistically significant difference between the groups.

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

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

Station: M4a

<u>t-test</u>

Group Name	Ν	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	4.0900	1.3250	0.3825
Quarterly Mean	38	0	2.8434	0.7846	0.1273

Result:

Difference between means = 1.2466 (95% CI : 0.6231 < Diff < 1.8700) t-value of difference = 3.0924 (14 degrees of freedom)

Calculated t-value > Critical t-value

Conclusion:

There is statistically significant difference between the groups.

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

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

Station: M5

t-test

Group Name	Ν	Missing	Mean	Std D0ev	SE
130% Baseline Mean	12	0	3.7900	1.4650	0.4229
Quarterly Mean	38	0	2.8175	0.8268	0.1341

Result:

Difference between means =0.9725 (95% Cl : 0.3004 < Diff < 1.6445) t-value of difference = 2.1918 (13 degrees of freedom)

Calculated t-value > Critical t-value

Conclusion:

There is statistically significant difference between the groups.

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

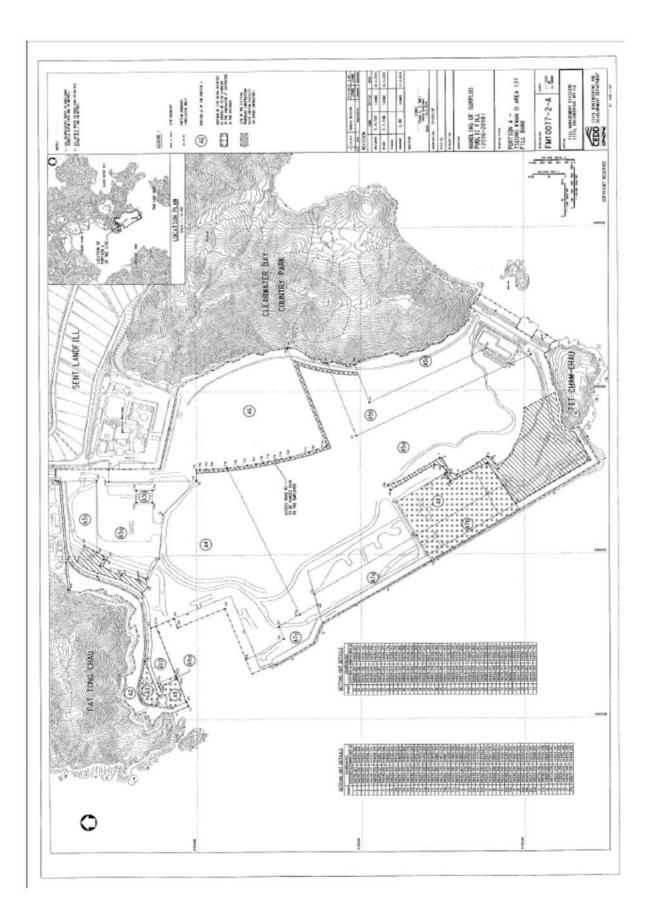
The result of suspended solids in this reporting period is lower than that of 130% baseline.



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Site General Layout plan







Κ

Weather Condition

	-		teorologi		vations				
	Mean				Mean	Mean	Total	Prevailing	Mean
	Pressure	Ai	r Temperatı	ıre	Dew	Relative	Rainfall	Wind	Wind
	(hPa)				Point	Humidity	(mm)	Direction	Speed
Day		Absolute	Mean	Absolute	(deg. C)	(%)	()	(degrees)	(km/h)
					(ueg. C)	(/0)		(degrees)	(KIII/II)
		Daily	(deg.C)	Daily					
		Max		Min					
		(deg. C)		(deg. C)					
1	1012.7	22.4	20.3	19.3	18.5	89	-	70	25.2
2	1012.2	21.6	21.1	20.5	19.6	92	-	80	30.9
3	1011.8	21.5	20.9	20.3	19.2	90	-	80	33
4	1009.3	25.9	23.7	20.6	21.9	90	-	140	27.3
5	1009.5	26.3	25.3	24.3	23.3	89	-	170	27.1
6	1011	28.4	25.4	20.2	23	87	-	180	22.2
7	1015.2	25.9	21.8	19.4	16.8	74	-	360	26.2
8	1020.1	21.8	20.6	20.2	15.6	73	-	80	34.2
9	1018.4	21.7	19.8	18	14.6	72	-	80	26.7
10	1014.9	23.3	21.4	19.9	17.7	80	-	70	23
11	1012.9	28.1	24.2	21.9	20.6	81	-	60	14.2
12	1012.3	29.2	25	22	20.3	76	0.1	100	9.5
13	1012.8	26.3	23.4	21.6	19.2	78	Trace	70	27.2
14	1010.8	28.9	24.7	22.5	21	80	-	50	10.8
15	1009.3	30.6	26.9	23.4	20.6	70	-	310	5.1
16	1009.5	30.8	26.7	24.1	20.4	69	Trace	100	7.9
17	1011.5	29.2	26.1	24	22.2	80	0.5	80	14.7
18	1010.1	29.9	26.7	24.6	23.1	81	-	130	11.3
19	1005.1	27.7	25.9	21.6	22.3	81	0.6	200	20.6
20	1004.1	25.1	24	23.2	22.9	94	0.3	30	16.8
21	1007.3	25.3	24.1	23.3	22.4	90	Trace	90	25.5
22	1010.5	23.9	23.1	22.5	21.1	89	Trace	80	47.1
23	1013.3	23.7	23	22.4	21.3	91	-	80	33.3
24	1014.2	24.3	23.5	22.9	21.6	89	-	70	20.3
25	1013.9	23.7	22.4	20.4	20.9	91	53.5	40	18.4
26	1014.6	24.8	21.6	19.4	16.4	73	5.9	80	25.6
27	1015.2	24.7	22.7	21.5	19	80	6.3	80	34.8
28	1013.8	27.6	24.1	21.8	21.1	84	Trace	80	22.7
29	1011.6	28.1	25.4	23.7	22.1	82	0.9	70	9.7
30	1012.1	27.8	24.6	22.7	19.5	73	0.3	80	18.1

Daily Extract of Meteorological Observations , April 2023 - Tseung Kwan O

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

	-		teoroiogi					ung Kwa	
	Mean				Mean	Mean	Total	Prevailing	Mean
	Pressure	Ai	r Temperatı	ıre	Dew	Relative	Rainfall	Wind	Wind
	(hPa)				Point	Humidity	(mm)	Direction	Speed
Day		Absolute	Mean	Absolute	(deg. C)	(%)		(degrees)	(km/h)
					(ucg. c)	(70)		(ucgrees)	
		Daily	(deg.C)	Daily					
		Max		Min					
		(deg. C)		(deg. C)					
1	1014.2	26.1	24.1	23	19.9	78	0.3	90	31.8
2	1015.2	26.9	24.1	22.7	19.1	74	-	70	28.9
3	1013.4	29.1	25.4	23.6	22.5	84	0.1	70	16.3
4	1008.8	31	27	25.4	23.9	84	-	110	14.8
5	1005.8	30.2	27.5	25.5	23.7	80	-	140	11.5
6	1004.4	29.7	28.2	26.9	24.8	82	-	170	16.8
7	1006	30.3	26.6	23.4	24	86	35.5	170	11.5
8	1011	24.8	23.2	21.9	21.1	88	39.2	10	27.4
9	1013.2	26.5	23.8	22.3	19.7	78	0.1	80	41.2
10	1013.7	25.3	23.9	23	18.1	70	-	80	36.1
11	1014.7	25.8	23.9	22.2	19.2	76	0.5	70	28.6
12	1014.8	25.7	24.4	23.8	20	77	Trace	50	20.3
13	1013.8	25.3	23.5	22.3	20.8	85	9.5	20	9
14	1011.6	23.1	21.3	20.2	20.2	93	39.9	20	18.6
15	1010.4	27.1	24.3	21.9	21.4	84	0.1	70	11.6
16	1009.6	27.3	25.2	23.1	22.9	87	0.4	110	7.1
17	1007.9	28.9	26.9	23.7	24.9	89	32.7	200	17.5
18	1006.9	31.4	28.9	27.5	25.7	83	-	230	18.2
19	1007.7	31.3	29.1	27.4	25.6	82	-	140	6.7
20	1008.5	32.7	29.7	28	25.9	80	Trace	140	14.2
21	1009	32.2	29.7	28	25.6	79	1.5	200	22
22	1008.1	33	30	28.1	25.2	76	-	230	22.5
23	1009.1	29.2	26.9	24.4	24.7	88	8.3	80	29.2
24	1010.5	28.2	24.9	23.3	22.7	88	14.5	80	33.4
25	1012	26.9	26.1	24.9	24	89	Trace	80	26.6
26	1011.9	30.9	27.8	26.4	25.3	87	0.2	80	19.9
27	1010.4	32.3	28.8	26.7	25.1	81	-	80	19.1
28	1009.8	32.5	28.7	27	23.7	75	Trace	90	13.9
29	1008	32.3	28.9	26.3	23.5	73	-	270	15.5
30	1004	34.6	31.2	28	25.9	74	-	270	15.3
31	1002.1	34.7	31.4	29.6	26.8	77	Trace	100	9.7

Daily Extract of Meteorological Observations , May 2023 - Tseung Kwan O

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

	Mean Pressure (hPa)	Air Temperature			Mean Dew Point	Mean Relative Humidity	Total Rainfall (mm)	Prevailing Wind Direction	Mean Wind Speed
Day		Absolute Daily Max (deg. C)	Mean (deg.C)	Absolute Daily Min (deg. C)	(deg. C)	(%)		(degrees)	(km/h)
1	1002.8	31.6	29.2	26.2	25.1	79	6	240	12.3
2	1004.8	35.2	30.7	28.2	25.9	76	-	230	17.7
3	1007.6	34.9	30.8	28.9	26.1	76	0.6	130	11.8
4	1008.4	32.7	30	27.9	26.2	81	5.1	90	18.3
5	1007.9	32.9	29.7	27.7	25.7	79	4.8	90	28.7
6	1007.8	30.2	28.4	26.8	26	87	31.1	90	23.1
7	1008.7	31.5	28.5	27	26.2	88	27.1	140	23.5
8	1007.1	33.1	29.4	27.4	25.9	82	2.6	150	20
9	1004.2	32	29	26.7	25.8	83	16.8	190	9.8
10	1001.9	33	29.5	28	25.4	79	0.3	190	8.3
11	1001.6	32.5	29.2	27.3	25.9	83	25.4	90	7.8
12	1001.9	33.7	30.2	28.2	25.6	77	0.2	90	16.5
13	1002.6	32.7	29.8	25.8	26.2	81	31.8	170	11.7
14	1004.9	29.6	27.7	25.1	25.4	88	62.8	190	11.4
15	1005.1	28.7	27.4	26.1	25.7	91	41.5	200	10.9
16	1007.1	28.1	26.4	25.2	25	92	41.7	230	17.7
17	1009.3	28	26.2	25.3	25.2	94	89.9	120	12
18	1008.9	29.9	28	25.7	25.9	89	35.8	170	23.8
19	1007.5	31.4	29.1	26.9	26	83	10.2	220	26.2
20	1007	32.2	30	27.8	26.1	80	2.3	220	24.8
21	1007.4	32.2	30.2	28.7	26.1	79	1.9	230	26.3
22	1007.2	32.4	30.2	29	25.8	77	0.6	230	25.2
23	1006.5	31.2	30	28	26.1	80	2.3	200	26
24	1007.1	31	29.1	27.4	26.3	85	8.2	190	26
25	1008.2	32.9	29.4	26.1	26	83	13	150	15.8
26	1008.5	32.9	29.4	26.6	26.2	83	11.4	70	13.8
27	1009.5	33.9	30.1	28.1	26.1	80	Trace	60	18.9
28	1009.9	31.3	28.8	26.9	26.2	86	5.4	90	14.6
29	1006.9	33.3	29.5	27.1	26.3	84	0.9	50	11.5
30	1005.6	32.5	29.8	26.5	26.3	82	11.2	240	14.5

Daily Extract of Meteorological Observations , June 2023 - Tseung Kwan O

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



Figures

