



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.05**

(FROM JANUARY 2023 TO MARCH 2023)

Prepared by:


LAU, Wing Sum
Assistant Environmental Officer

Checked by:


LAU, Chi Leung
Environmental Team Leader

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

Attention: Mr. C L Lau

14 June 2023

Dear Mr. Lau,

RE: Contract No. CV/2021/09
Handling of Surplus Public Fill (2022-2023)
Quarterly EM&A Report (No. 5) for January to March 2023 for the Tseung Kwan O Area 137
Fill Bank

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



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.05 prepared by ETS-Testconsult Ltd (ET) for the "Contract No: CV/2021/09 –Handling of Surplus Public Fill (2022-2023) – Tseung Kwan O (TKO) Area 137 Fill Bank" (The Project).

This report documents the findings of EM&A Works conducted during the operation phase of Fill Bank at Tseung Kwan O Area 137 from 01 January 2023 to 31 March 2023.

Site Activities

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

January 2023

1. Operation of the Public Fill Reception Facilities at Tseung Kwan O Fill Bank (TKOFB);
2. Operation of dewatering plant at TKOFB;
3. Operation and Maintenance of crushing plants at TKOFB;
4. Operation and Maintenance of Artificial Intelligent System for Crushing Plant at TKOFB;
5. Operation of the Integrated Public Fill Reception at TKOFB;
6. Operation and Maintenance of the Wash House at TKOFB;
7. Personnel Position Tracking and Proximity Detection System of Moving Plant at TKOFB;
8. Modification and Operation a Digital Works Supervision System (DWSS) for TKOFB;
9. Operation and maintenance of Wheel Washing Bays and Facilities at TKOFB;
10. Maintenance of the Drainage Systems at TKOFB;
11. Construction of Gabion Wall at TKOFB;
12. Upgrade of Integrated Public Fill Reception Platform at TKOFB
13. Trial Production of Blanket Layer Material Recycled from Public Fill at TKOFB
14. Upgrading and Repairing Works for Lightning Protection System at TKOFB
15. Replacement of Steel Decking near Main Entrance at TKOFB
16. Replacement of concrete pavement at TKOFB
17. Trial sorting of 37.5mm products by screen machine and testing
18. Modification works of existing containers for trial operation for receiving slurry at TKOFB
19. Implementation of C Easy system at TKOFB (Phase 1)

February 2023

1. Operation of the Public Fill Reception Facilities at Tseung Kwan O Fill Bank (TKOFB);
2. Operation of dewatering plant at TKOFB;
3. Operation and Maintenance of crushing plants at TKOFB;
4. Operation and Maintenance of Artificial Intelligent System for Crushing Plant at TKOFB;
5. Operation of the Integrated Public Fill Reception at TKOFB;
6. Operation and Maintenance of the Wash House at TKOFB;
7. Personnel Position Tracking and Proximity Detection System of Moving Plant at TKOFB;
8. Modification and Operation a Digital Works Supervision System (DWSS) for TKOFB;
9. Operation and maintenance of Wheel Washing Bays and Facilities at TKOFB;
10. Maintenance of the Drainage Systems at TKOFB;
11. Construction of Gabion Wall at TKOFB;
12. Upgrade of Integrated Public Fill Reception Platform at TKOFB
13. Trial Production of Blanket Layer Material Recycled from Public Fill at TKOFB
14. Replacement of concrete pavement at TKOFB
15. Implementation of C Easy system at TKOFB (Phase 1)
16. Carry out GCO Probe test and SRT
17. Preparation works for temporary storage of containers

March 2023

1. Operation of the Public Fill Reception Facilities at Tseung Kwan O Fill Bank (TKOFB);
2. Operation of dewatering plant at TKOFB;
3. Operation and Maintenance of crushing plants at TKOFB;
4. Operation and Maintenance of Artificial Intelligent System for Crushing Plant at TKOFB;
5. Operation of the Integrated Public Fill Reception at TKOFB;
6. Operation and Maintenance of the Wash House at TKOFB;
7. Personnel Position Tracking and Proximity Detection System of Moving Plant at TKOFB;
8. Modification and Operation a Digital Works Supervision System (DWSS) for TKOFB;
9. Operation and maintenance of Wheel Washing Bays and Facilities at TKOFB;
10. Maintenance of the Drainage Systems at TKOFB;
11. Construction of Gabion Wall at TKOFB;
12. Replacement of concrete pavement at TKOFB
13. Implementation of C Easy system at TKOFB (Phase 1)
14. Carry out GCO Probe test and SRT
15. Preparation works for temporary storage of containers)

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

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

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

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 MaterialLab. Action and Limit Levels were established for air and water quality parameters based on the baseline monitoring results.

This quarterly report documented the findings of EM&A Works conducted during the operation phase of Fill Bank at Tseung Kwan O Area 137 from January 2023 to March 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 2.1 Contact Details of Key Personnel

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

3.0 SUMMARY OF EM&A REQUIREMENTS

3.1 EM&A Programme

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

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

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

3.2 Monitoring Stations and Parameters

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

3.3 Monitoring Methodology and Calibration Details

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

3.4 Environmental Quality Performance Limits (Action/Limit Levels)

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

3.5 Environmental Mitigation Measures

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

4.0 MONITORING RESULTS

4.1 Air Quality

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

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

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

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

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

Monitoring Parameter	Level of Exceedance	January 2023	February 2023	March 2023
24-hr TSP	No of monitoring events	5	5	5
	Action Level	0	0	0
	Limit Level	0	0	0
1-hr TSP	No of monitoring events	15	15	16
	Action Level	0	0	0
	Limit Level	0	0	0

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

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

Period	1-hr TSP ($\mu\text{g}/\text{m}^3$)		24-hr TSP ($\mu\text{g}/\text{m}^3$)	
	TKO-A1	TKO-A2a	TKO-A1	TKO-A2a
Baseline (29/08 – 13/09)	195		123	
January 2023	231	236	135	141
February 2023	228	233	131	136
March 2023	244	248	139	144

4.2 Noise

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

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

Table 4.3 Summary of Impact Monitoring results of Noise Daytime Monitoring

Monitoring Location	Limit Level	January 2023	February 2023	March 2023
	Leq, dB(A)			
TKO-N1	75	65.2	65.1	64.3

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

4.3 Marine Water Quality

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

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

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

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

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

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

Parameter	Exceedance Level	January 2023	February 2023	March 2023
Number of monitoring days		12	12	14
Dissolved Oxygen, DO (S&M)	Action	0	0	0
	Limit	0	0	0
Dissolved Oxygen, DO (B)	Action	0	0	0
	Limit	0	0	0
Turbidity	Action	0	0	0
	Limit	0	0	0
Suspended Solids, SS	Action	0	0	0
	Limit	0	0	0
Total Number Exceedances	Action	0	0	0
	Limit	0	0	0

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

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

Parameter	Exceedance Level	January 2023	February 2023	March 2023
Number of monitoring days		12	12	14
Dissolved Oxygen, DO (S&M)	Action	0	0	0
	Limit	0	0	0
Dissolved Oxygen, DO (B)	Action	0	0	0
	Limit	0	0	0
Turbidity	Action	0	0	0
	Limit	0	0	0
Suspended Solids, SS	Action	0	0	0
	Limit	0	0	0
Total Number Exceedances	Action	0	0	0
	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)

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

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

Table 5.1 Summary of environmental licensing and permit status

Description	Permit No.	Valid Month		Section
		From	To	
Environmental Permit	EP-134/2002/P	14/02/23	01/01/27	<ul style="list-style-type: none"> ▪ 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/22-083	07/02/23	31/03/23	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

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

Waste Type	January 2023	February 2023	March 2023
Public Fill ('000m ³)	0	0	0
C&D Waste (general refuse) ('000kg)	67.28	436.56	1294.10
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 non-compliance was not required.

6.3 Summary of Actions Taken

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

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

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

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

Table 6.1 Summary of Environmental Complaints and Prosecutions

<i>Period</i>	<i>Complaints logged</i>	<i>Summon served</i>	<i>Successful Prosecution</i>
<i>January 2023</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>February 2023</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>March 2023</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>Cumulative</i>	<i>18</i>	<i>0</i>	<i>0</i>

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

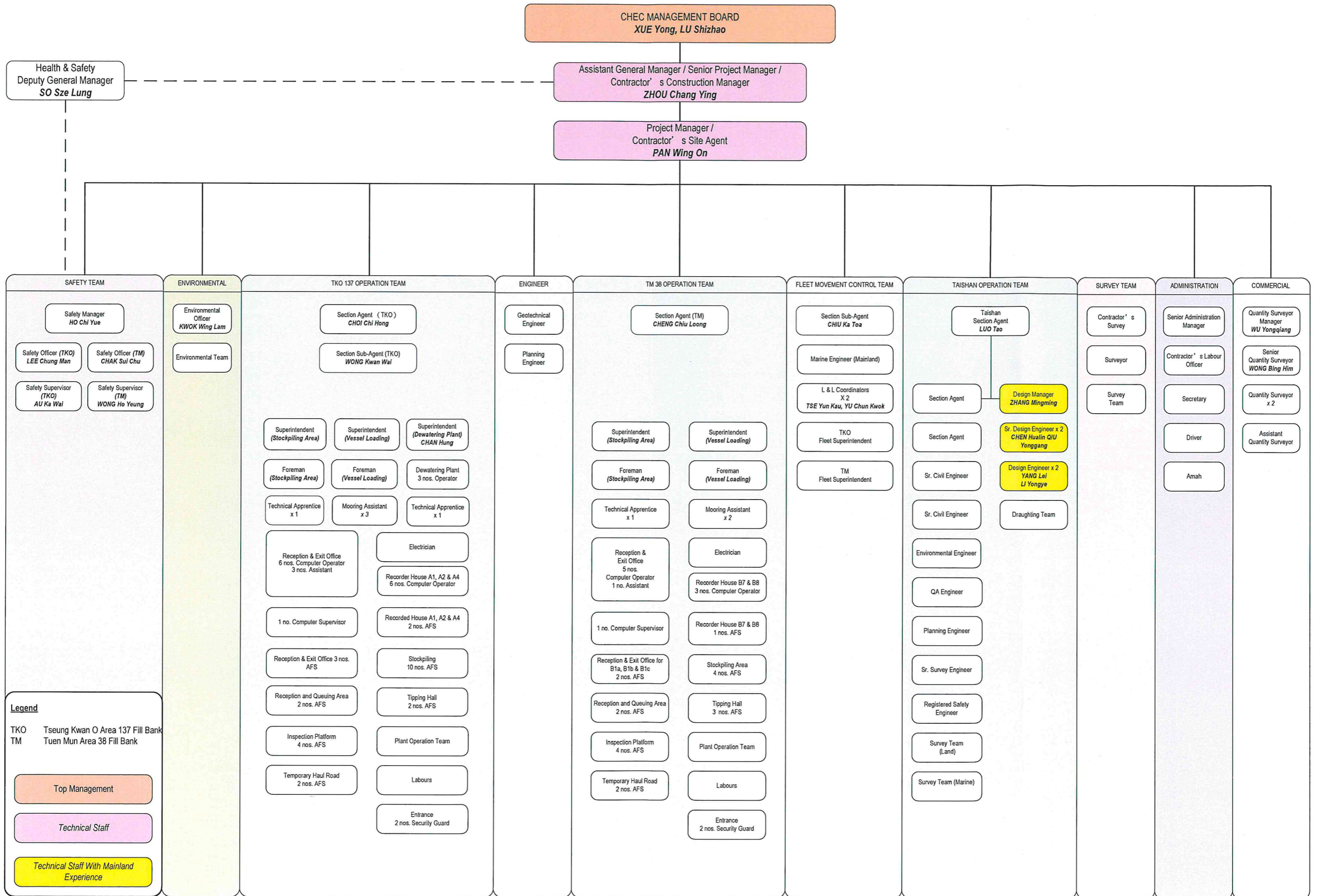
- Provide hydroseeding on the exposed slopes, on which the final profile has been formed;
- Erect all the site hoarding/chaining fences in accordance with agreed design at proper location;
- Maintain the hydroseeding slopes in accordance with the Landscape Plan.

- END OF REPORT -

Appendix

A

Organization Chart



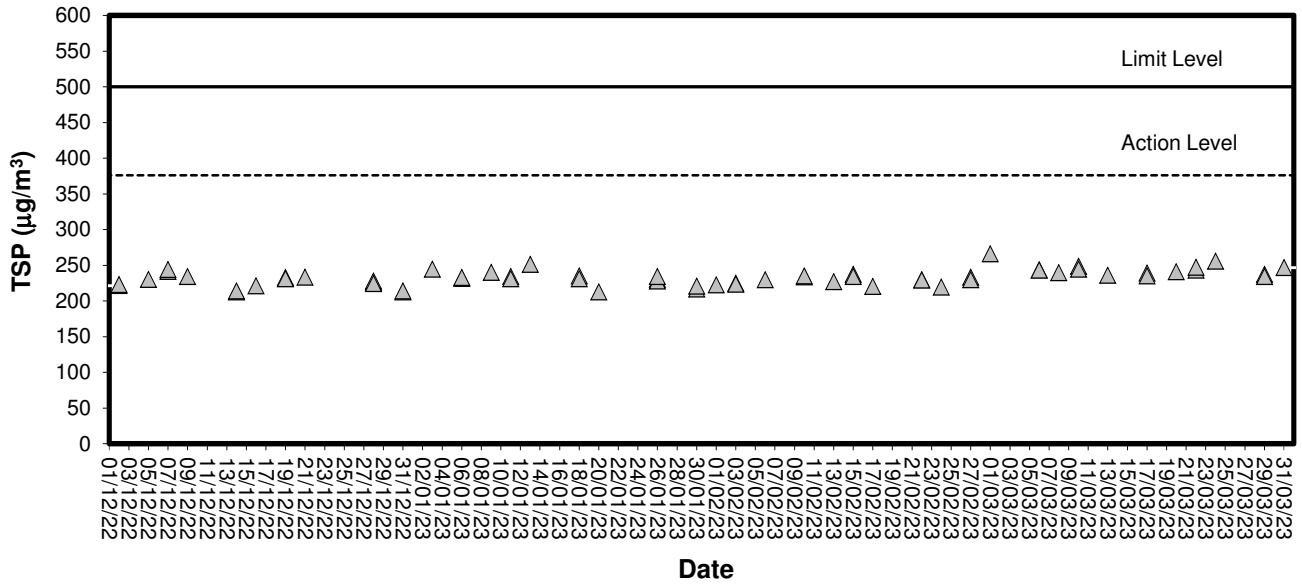
Appendix

B

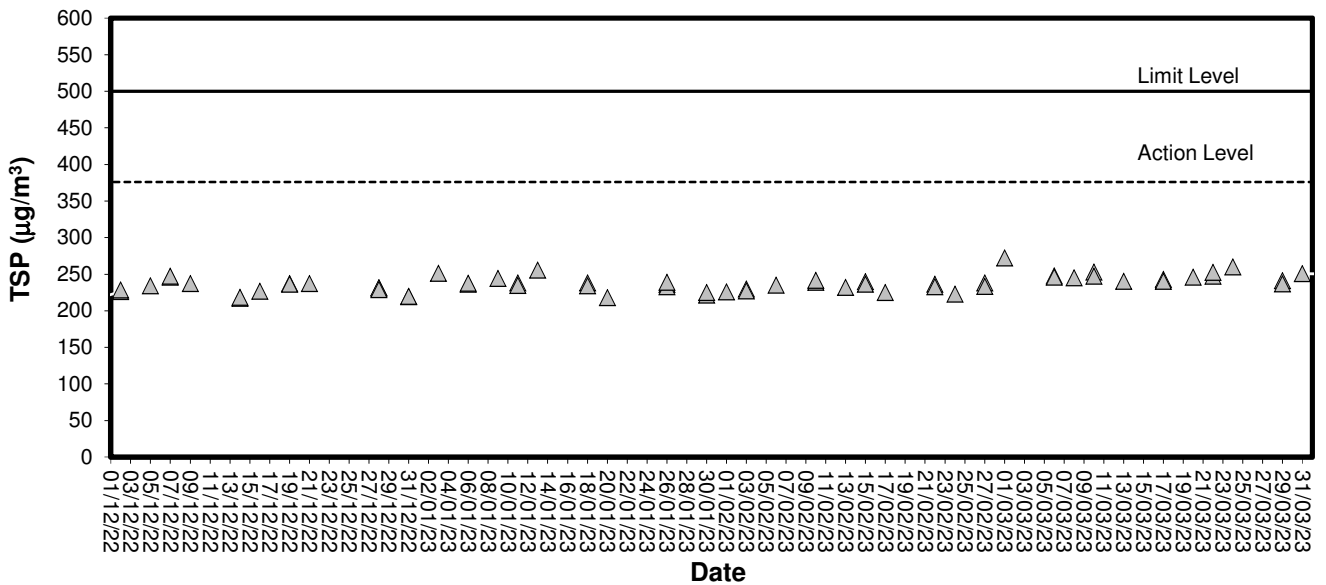
Graphical Plots of Air Quality Monitoring Data



1-hour TSP level at TKO-A1

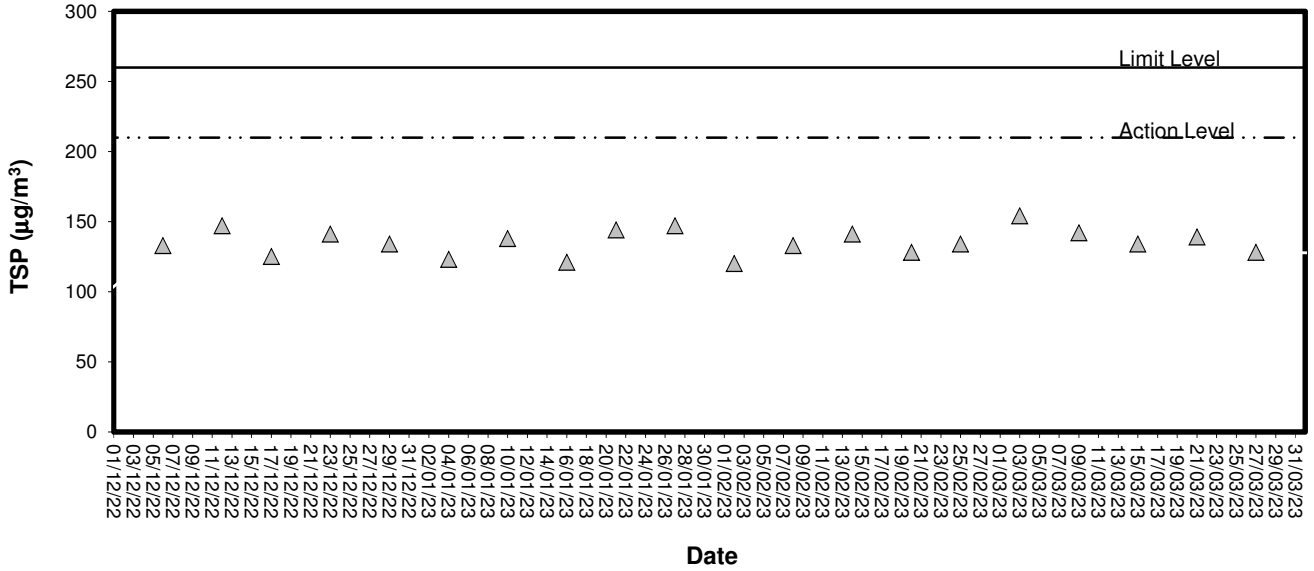


1-hour TSP level at TKO-A2a

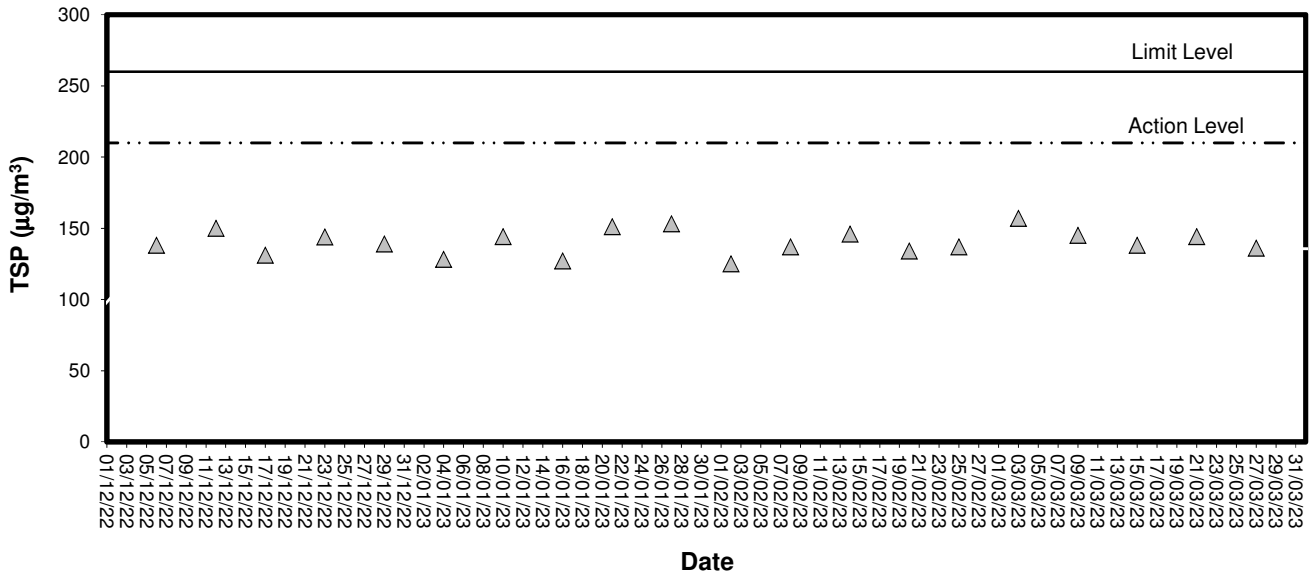




24-hour TSP level at TKO-A1



24-hour TSP level at TKO-A2a

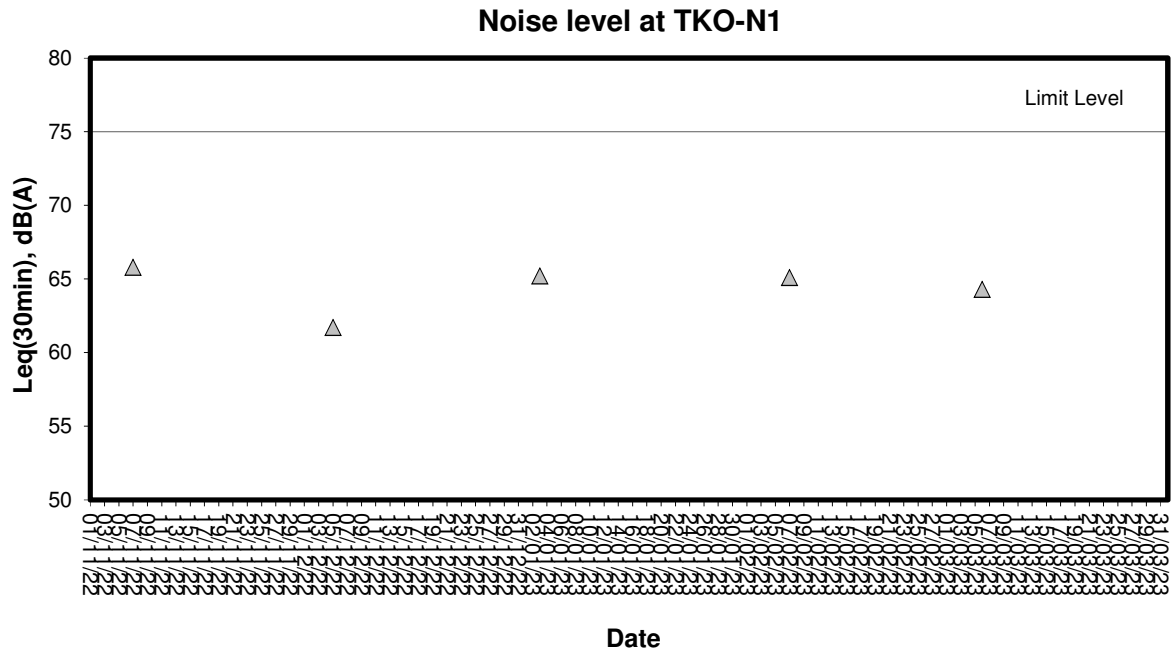


Appendix

C

Graphical Plots of Noise Monitoring Data

Noise Monitoring (Day-time)

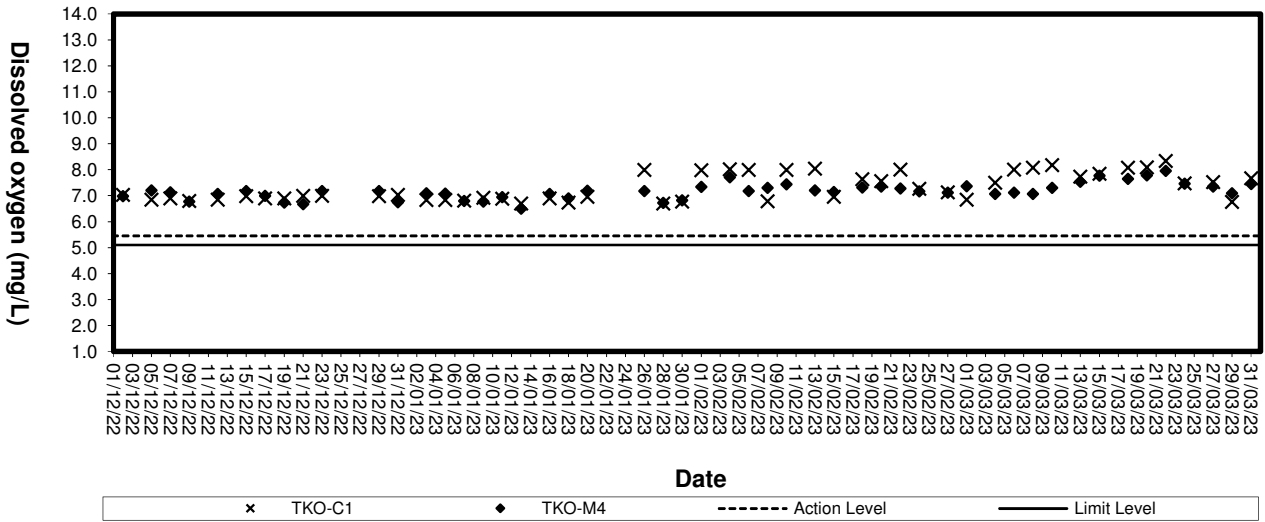


Appendix

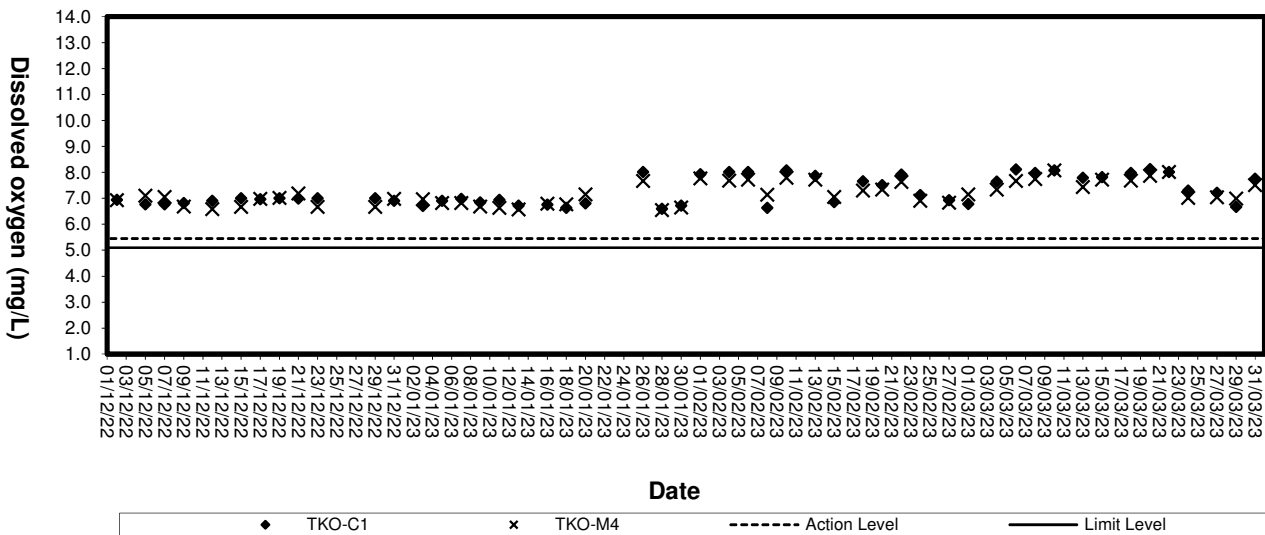
D1

Graphical Plots of Impact Marine Water Quality Monitoring Data

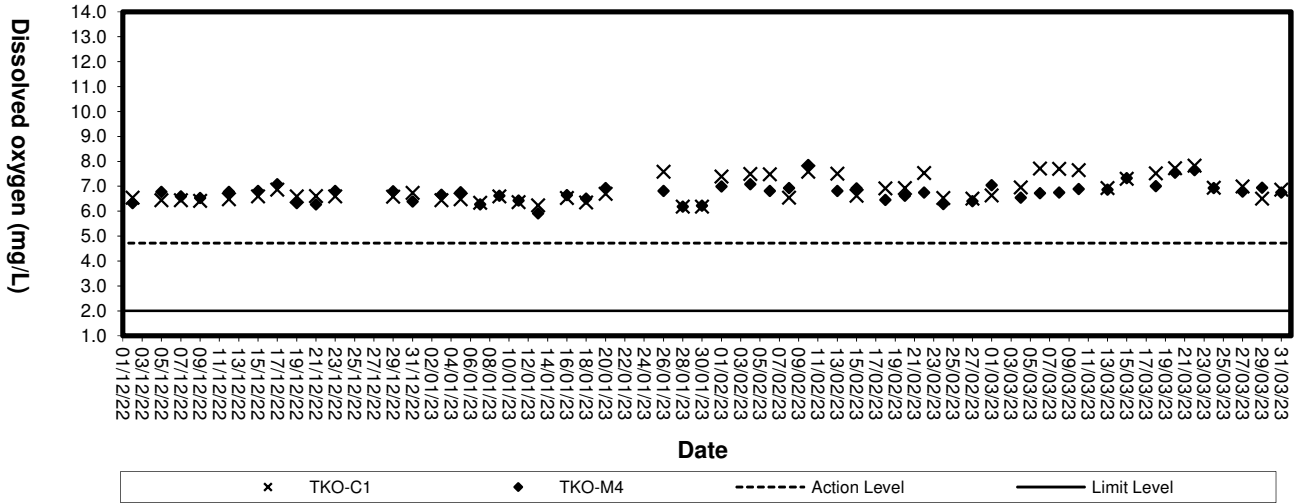
Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide



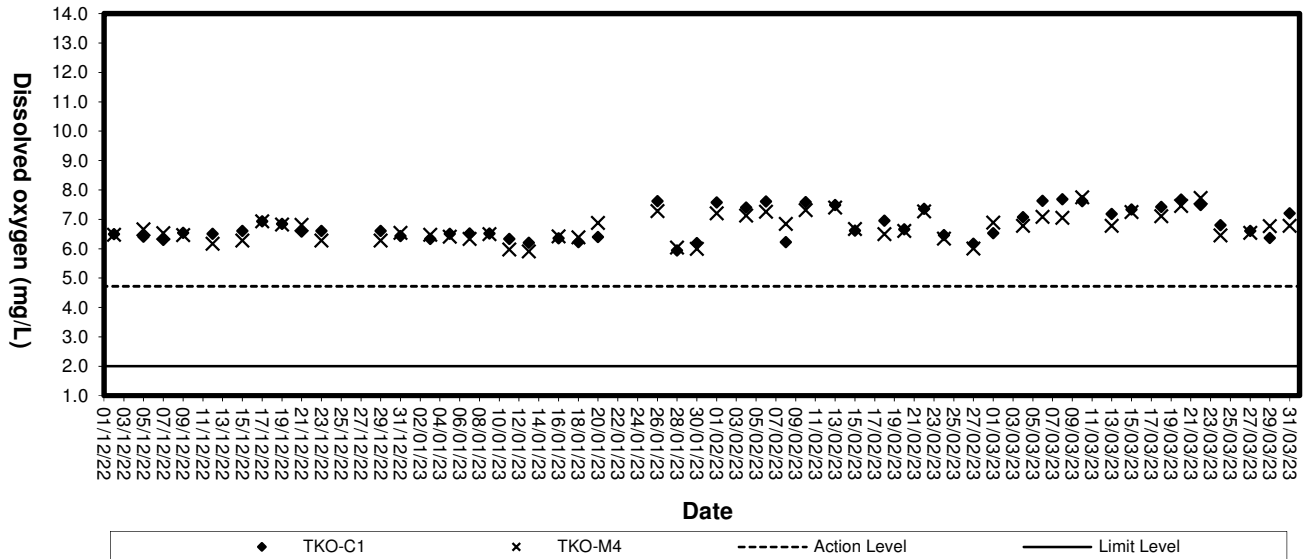
Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide



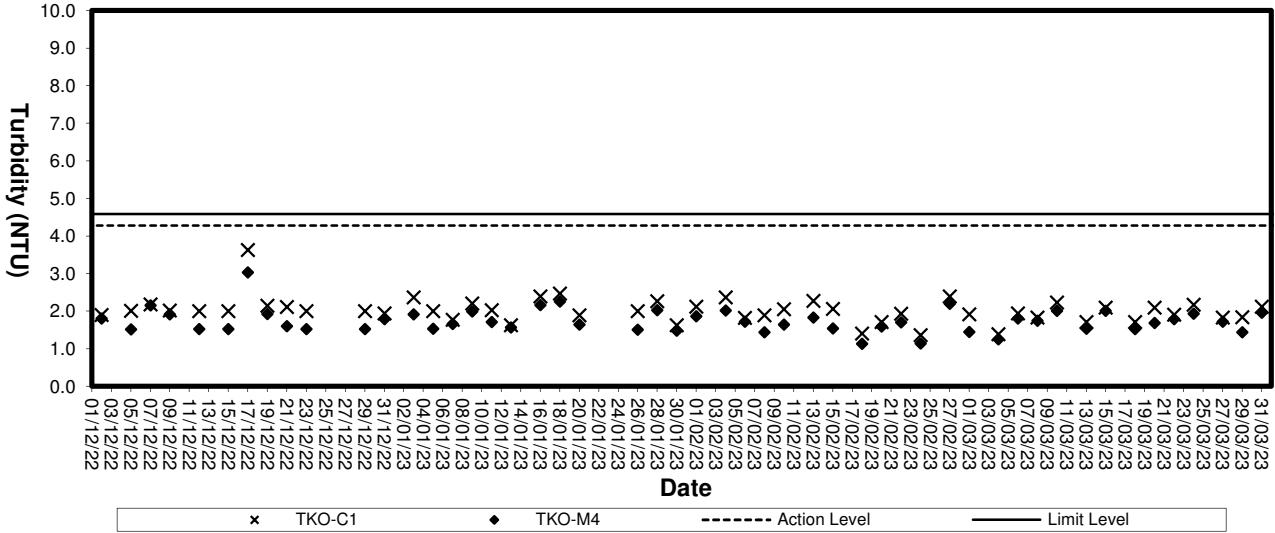
Dissolved Oxygen (Bottom) at Mid-Flood Tide



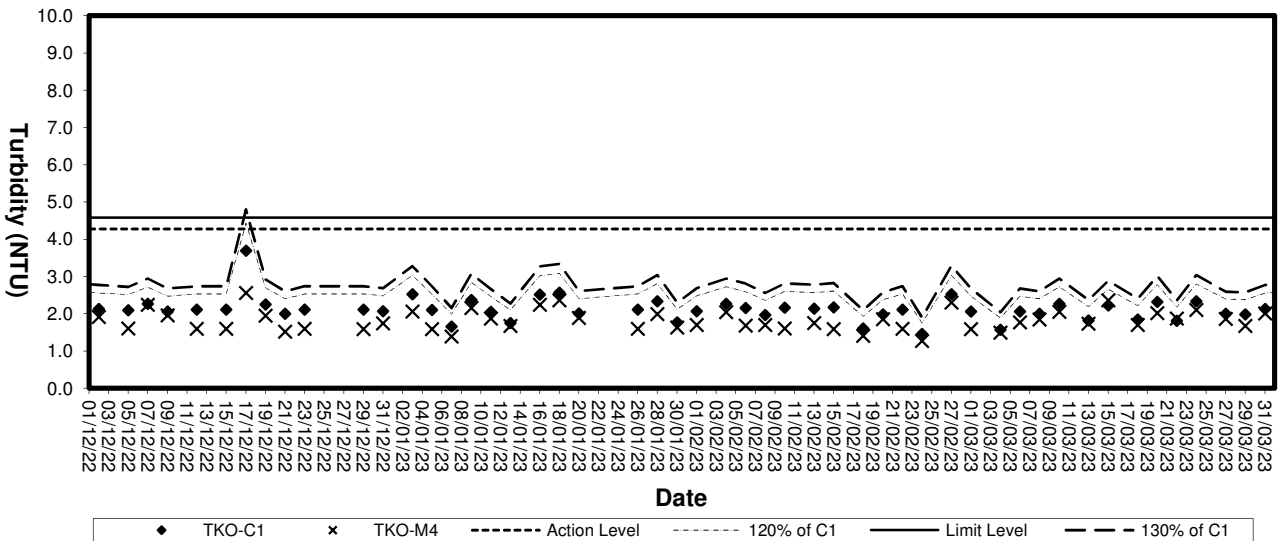
Dissolved Oxygen (Bottom) at Mid-Ebb Tide



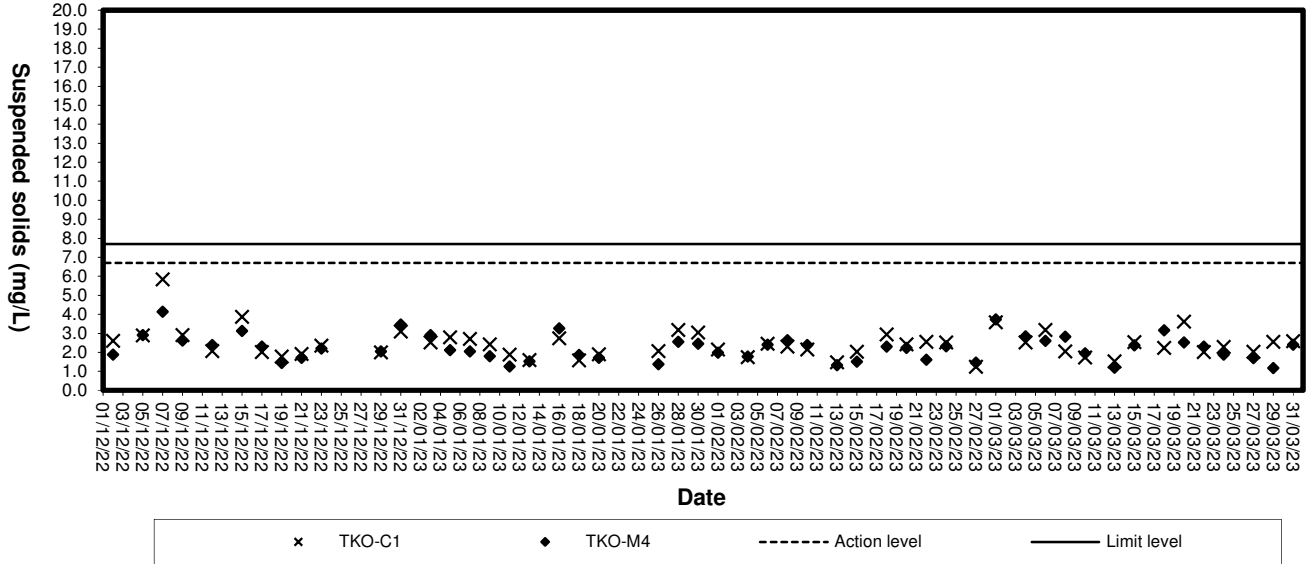
Turbidity (Depth-average) at Mid-Flood Tide



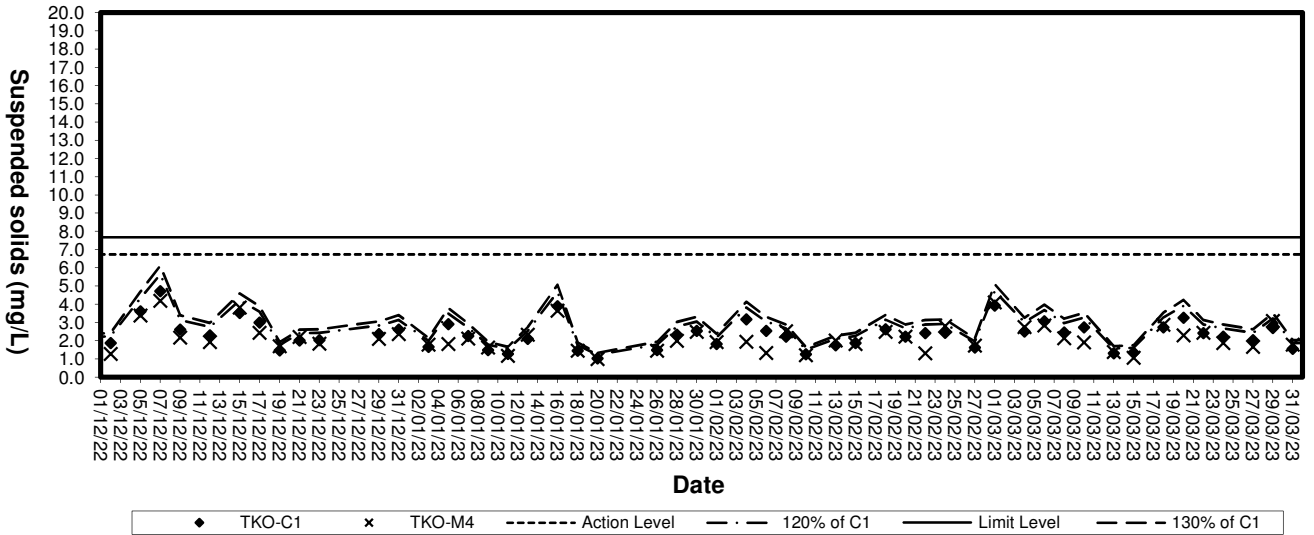
Turbidity (Depth-average) at Mid-Ebb Tide



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



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

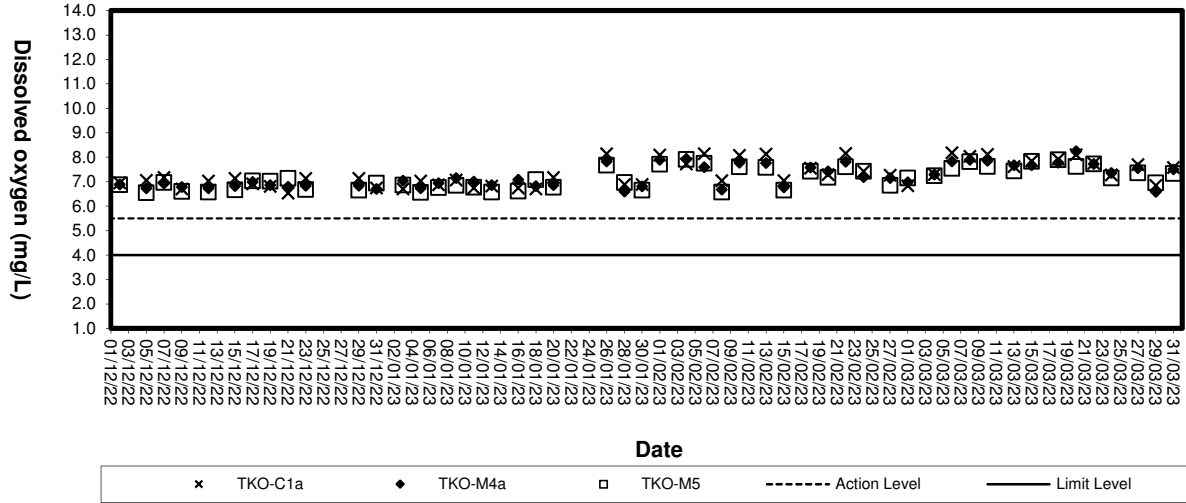


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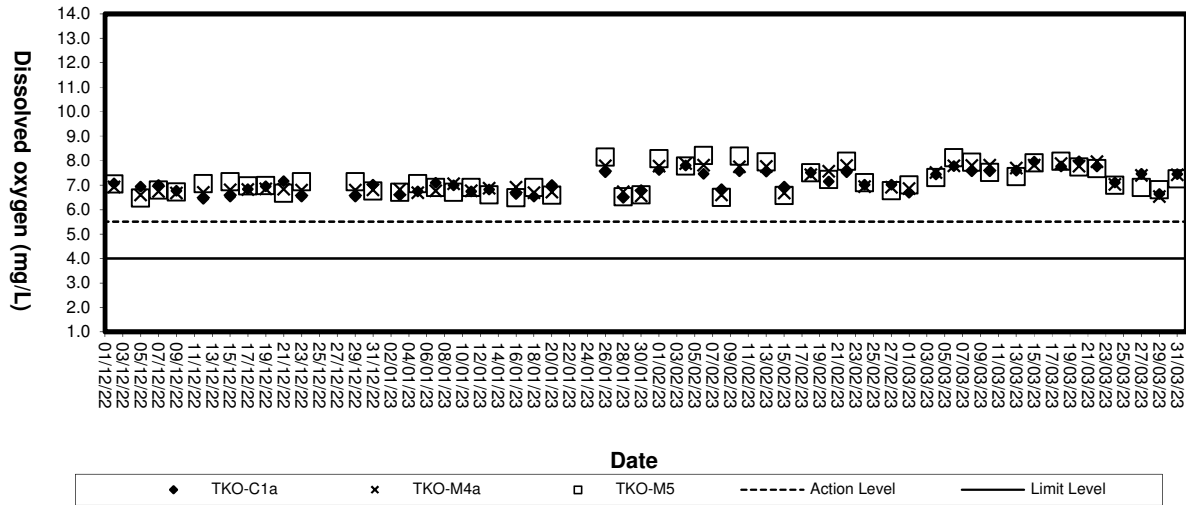
D2

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

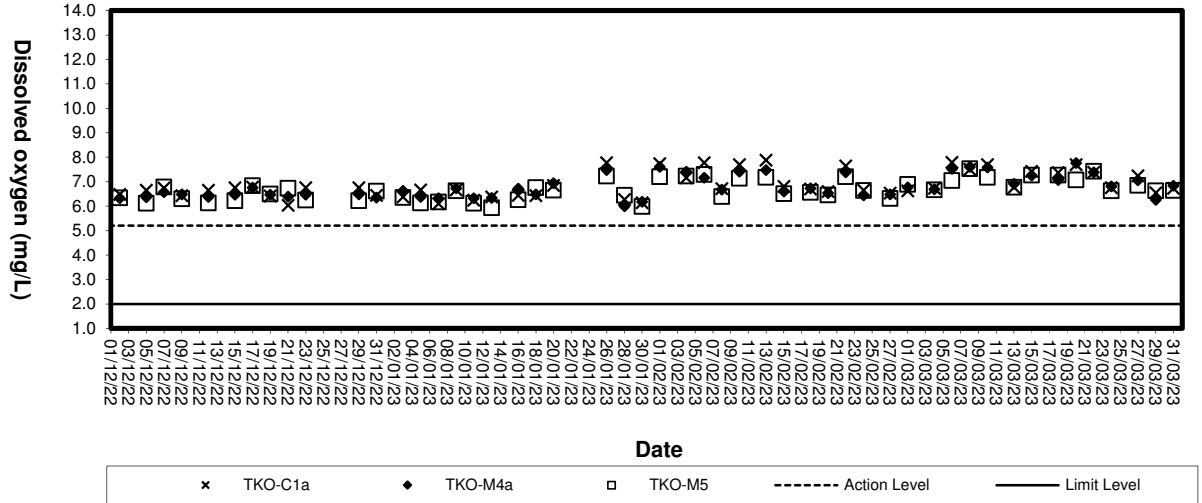
Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide (3RS project)



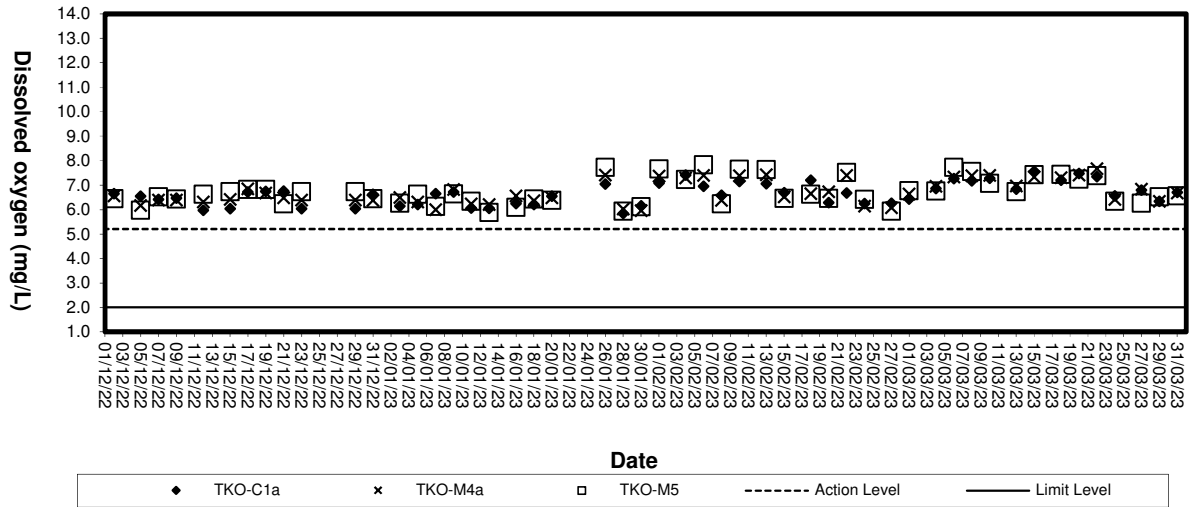
Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide (3RS project)



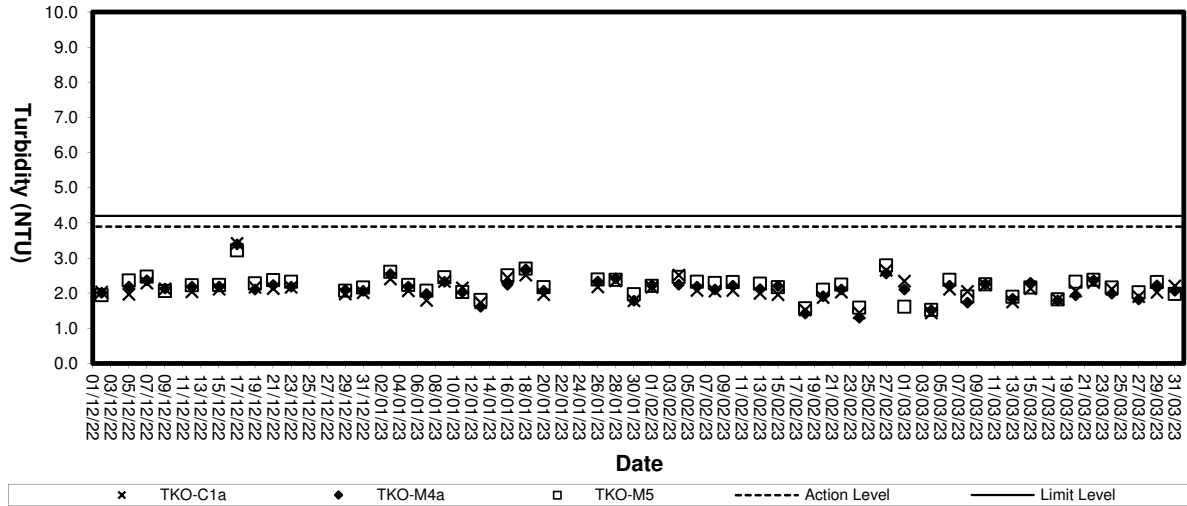
Dissolved Oxygen (Bottom) at Mid-Flood Tide (3RS project)



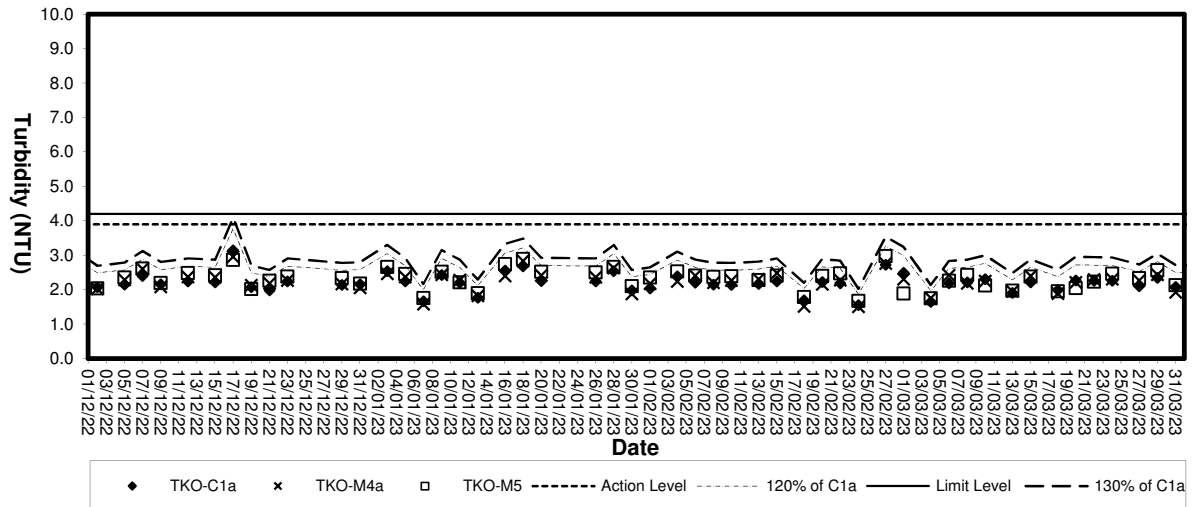
Dissolved Oxygen (Bottom) at Mid-Ebb Tide (3RS project)



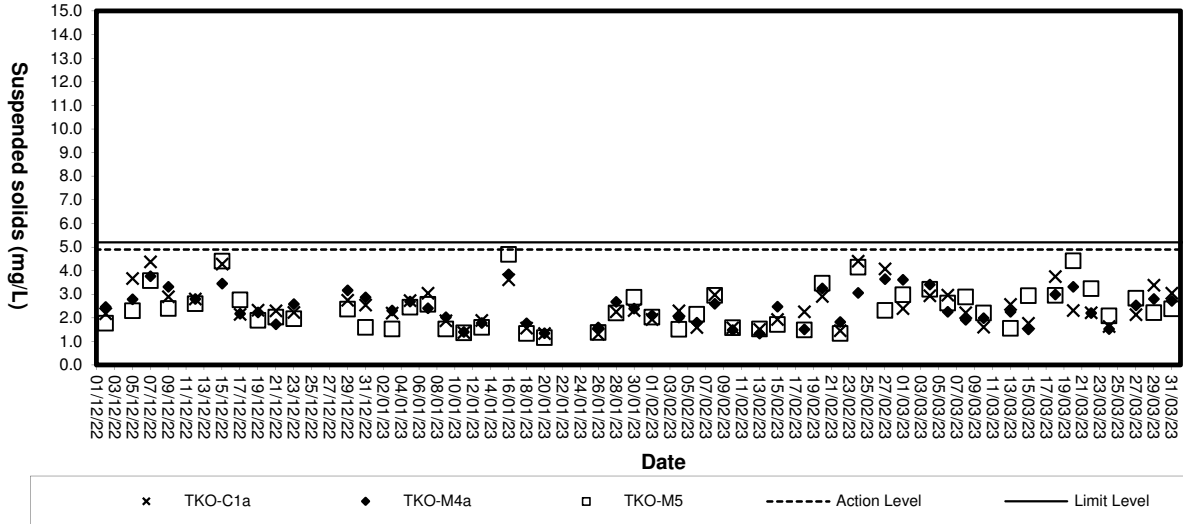
Turbidity (Depth-average) at Mid-Flood Tide (3RS project)



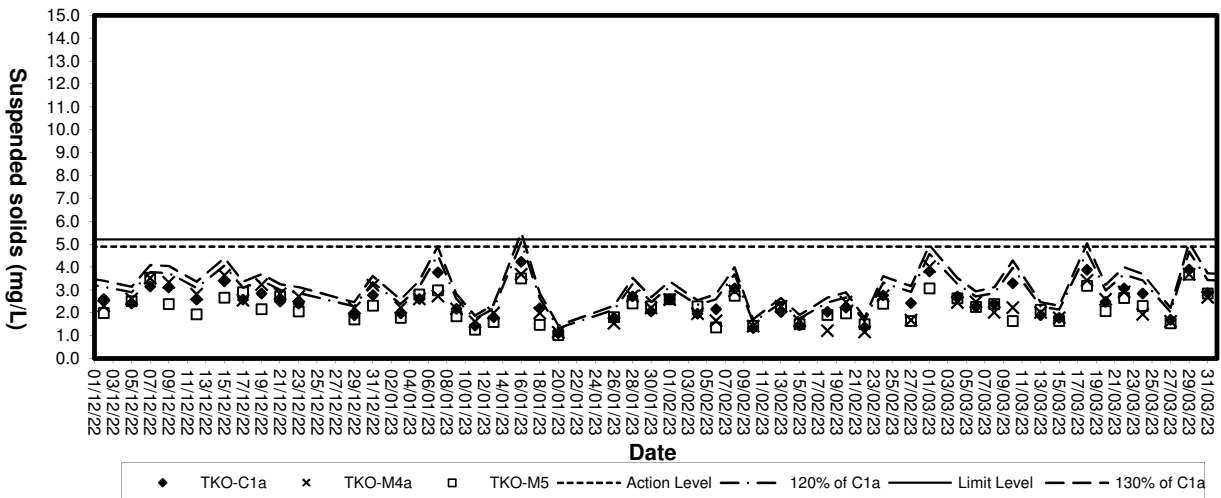
Turbidity(Depth-average) at Mid-Ebb Tide (3RS project)



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



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



Appendix

E

Environmental Quality Performance (Action / Limit Levels)

Action and Limit Levels for Air Quality
Action and Limit Levels for 1-Hour TSP

Location	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
A1	376	500
A2		

Action and Limit Levels for 24-Hour TSP

Location	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
A1	210	260
A2		

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)	<u>Surface & Middle</u> DO < 5.45 (5%-ile of baseline data) <u>Bottom</u> DO < 4.72 (5%-ile of baseline data)	<u>Surface & Middle</u> DO < 5.10 (1%-ile of baseline data) <u>Bottom</u> 2 mg/L
Suspended solids, SS mg/L (Depth-averaged)	SS > 6.74 (95%-ile of baseline data or SS > 120% of upstream control stations SS at the same tide of the same day)	SS > 7.67 (99%-ile of baseline data or SS > 130% of upstream control stations SS at the same tide of the same day)
Turbidity, Tby NTU (Depth-averaged)	Tby > 4.28 (95%-ile 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) ⁴

Parameter ⁴	Action Level ⁴	Limit Level ⁴
DO (mg/L) ⁴	<u>Surface & Middle</u> ⁴ <5.5 mg/L ⁴ <u>Bottom</u> ⁴ <5.2 mg/L ⁴	<u>Surface & Middle</u> ⁴ <4.00 mg/L (1%-ile of baseline data) ⁴ <u>Bottom</u> ⁴ <2.00 mg/L ⁴
SS (mg/L) ⁴ (Depth-averaged) ⁴	>4.9 mg/L or >120% of the upstream control station's SS at the same tide on the same day ⁴	>5.2 mg/L or >130% of the upstream control station's SS at the same tide on the same day ⁴
Turbidity (NTU) (Depth-averaged) ⁴	>3.9NTU or >120% of the upstream control station's turbidity at the same tide on the same day ⁴	>4.2 NTU or >130% of the upstream control station's turbidity at the same tide on the same day ⁴

Appendix

F

Event-Action Plans

EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE

ET Leader	ACTION	Contractor
IC(E)	ER	

EVENT	ACTION LEVEL	ER	Contractor
<ol style="list-style-type: none"> Exceedance for one sample 	<ol style="list-style-type: none"> Identify source, investigate the causes of exceedance and propose remedial measures Inform ER, IC(E) and Contractor Repeat measurement to confirm finding Increase monitoring frequency to daily 	<ol style="list-style-type: none"> Notify Contractor 	<ol style="list-style-type: none"> Rectify any unacceptable practise Amend working methods if appropriate
<ol style="list-style-type: none"> Exceedance for two or more consecutive samples 	<ol style="list-style-type: none"> Check monitoring data submitted by the ET Check contractor's working method 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing 2. Notify the Contractor 3. Ensure remedial measures properly implemented 	<ol style="list-style-type: none"> 1. Submit proposals for remedial actions to IC(E) within 3 working days of notification 2. Implement the agreed proposals 3. Amend proposal if appropriate
<ol style="list-style-type: none"> Exceedance for one sample 	<ol style="list-style-type: none"> Check monitoring data submitted by the ET Check Leader Check the Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise the ER on the effectiveness of the proposed remedial measures Supervise implementation of remedial measures 	<ol style="list-style-type: none"> 1. 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 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 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by the ET 2. Check Contractor's working method 3. 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
<ol style="list-style-type: none"> Exceedance for one sample 	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing 2. Notify the Contractor 3. Ensure remedial measures properly implemented 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance 2. Submit proposals for remedial actions to IC(E) within 3 working days of notification 3. Implement the agreed proposals 4. Amend proposal if appropriate.

EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE

EVENT	ACTION			Contractor
	ET Leader	IC(E)	ER	
2. Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures 2. Notify IC(E), ER, EPD and Contractor 3. Repeat measurement to confirm finding 4. Increase monitoring frequency to daily 5. Carry out analysis of contractor's working procedures to determine possible mitigation to be implemented 6. Arrange meeting with IC(E) and ER to discuss the remedial actions to be taken 7. Assess effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results 8. If exceedance stops, cease additional monitoring 	<ol style="list-style-type: none"> 1. Discuss amongst ER, ET and Contractor on the potential remedial actions 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly 3. Supervise the implementation of remedial measures 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing 2. Notify Contractor 3. In consultation with the IC(E), agree with the Contractor on the remedial measures to be implemented 4. Ensure remedial measures are properly implemented 5. If 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 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedances 2. Submit proposals for remedial actions to IC(E) within 3 working days of notification 3. Implement the agreed proposals 4. Resubmit proposals if problem still not under control 5. Stop the relevant activity of works as determined by the ER until the exceedance is abated

EVENT/ACTION PLAN FOR NOISE EXCEEDANCE

EVENT	ACTION			
	ET Leader	IC(E)	ER	Contractor
Action Level	<ol style="list-style-type: none"> 1. Notify the IC(E) and the Contractor. 2. Carry out investigation. 3. Report the results of investigation to the IC(E) and the Contractor. 4. Discuss with the Contractor and formulate remedial measures. 5. Increase monitoring frequency to check mitigation effectiveness 	<ol style="list-style-type: none"> 1. Review the analysed results submitted by the ET. 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly. 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Require the Contractor to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented. 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IC(E). 2. Implement noise mitigation proposals.
Limit Level	<ol style="list-style-type: none"> 1. Notify the IC(E), the ER, the EPD and the Contractor. 2. Identify source. 3. Repeat measurement to confirm findings. 4. Increase monitoring frequency. 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. 6. Inform the IC(E), the ER and the EPD the causes & actions taken for the exceedances. 7. Assess effectiveness of Contractor's remedial actions and keep the IC(E), the EPD and the ER informed of the results 8. If exceedance due to the construction works stops, cease additional monitoring 	<ol style="list-style-type: none"> 1. Discuss amongst the ER, the ET Leader and the Contractor on the potential remedial actions. 2. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. 3. Supervise the implementation of remedial measures. 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Require the Contractor to propose remedial measures for the analysed noise problem. 4. Ensure remedial measures are properly implemented. 5. 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. 	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance 2. Submit proposals for remedial actions to IC(E) within 3 working days of notification. 3. Implement the agreed proposals. 4. Resubmit proposals if problem still not under control. 5. Stop the relevant activity of works as determined by the ER until the exceedances is abated.

EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE

Event	ACTION		
	ET Leader	Contractor	ER IEC
<p>Action level being exceeded by one sampling day</p>	<ol style="list-style-type: none"> 1. Identify source(s) of impact; 2. Repeat in-situ measurement to confirm findings; 3. Notify Contractor in writing within 24 hours of identification of the exceedance 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Carry out investigation 6. Report the results of investigation to the Contractor within 3 working days of identification of exceedance and advise contractor if exceedance is due to contractor's construction works 7. Discuss mitigation measures with Contractor if exceedance is due to the construction works within 4 working days 8. Repeat measurement on next day of exceedance if exceedance is due to the construction works 	<ol style="list-style-type: none"> 1. Notify the ER and IEC in writing within 24 hours of identification of exceedance 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Submit investigation report to IEC and ER within 3 working days of the identification of an exceedance 5. Consider changes of working method if exceedance is due to the construction works 6. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER if exceedance is due to the construction works within 4 working days of identification of an exceedance 7. Implement the agreed mitigation measures within reasonable time scale 	<ol style="list-style-type: none"> 1. Notify EPD and other relevant governmental agencies in writing within 24 hours of the identification of the exceedance 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 3. Require contractor to propose remedial measures for the analysed problem if related to the construction works 4. Ensure remedial measures are properly implemented 5. Assess the effectiveness of the mitigation measure
			<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET 2. Confirm ET assessment if exceedance is due / not due to the works 3. Discuss with ET, ER and Contractor on the mitigation measures 4. Review contractor's mitigation measures whenever necessary to ensure their effectiveness and advise the ER accordingly 5. Supervise the implementation of mitigation measures

EVENT AND ACTION PLAN FOR WATER QUALITY

Event	ACTION			IEC
	ET Leader	Contractor	ER	
<p>Action level being exceeded by more than one consecutive sampling days</p>	<ol style="list-style-type: none"> 1. Identify source(s) of impact; 2. Repeat in-situ measurement to confirm findings 3. Notify Contractor in writing within 24 hours of identification 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Carry out investigation 6. Report the results of investigation to the Contractor within 3 working days of identification of exceedance and advise contractor if exceedance is due to contractor's construction works 7. Discuss mitigation measures with IEC and Contractor within 4 working of identification of an exceedance 8. Ensure mitigation measures are implemented; 9. Prepare to increase the monitoring frequency to daily; 10. Repeat measurement on next day of exceedance. 	<ol style="list-style-type: none"> 1. Notify IEC and ER in writing within 24 hours of identification of exceedance 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Submit the results of the investigation to IEC and ER within 3 working days of the identification of an exceedance 6. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 4 working days of identification of an exceedance 7. Implement the agreed mitigation measures within reasonable time scale 	<ol style="list-style-type: none"> 1. Notify EPD and other relevant governmental agencies in writing within 24 hours of the identification of the exceedance 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 3. Require contractor to propose remedial measures for the analysed problem if related to the construction works 4. Ensure remedial measures are properly implemented 5. Assess the effectiveness of the mitigation measure 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET 2. Confirm ET assessment if exceedance is due / not due to the works 3. Discuss with ET, ER and Contractor on the mitigation measures. 4. Review contractor's mitigation measures whenever necessary to ensure their effectiveness and advise the ER accordingly 5. Assess the effectiveness of the implemented mitigation measures.

EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE

Event	ACTION			IEC
	ET Leader	Contractor	ER	
Limit level being exceeded by one sampling day	<ol style="list-style-type: none"> 1. Repeat in-situ measurement to confirm findings; 2. Identify source(s) of impact; 3. Notify Contractor in writing within 24 hours of identification of the exceedance 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Carry out investigation 6. Report the results of investigation to the Contractor within 3 working days of identification of exceedance and advise contractor if exceedance is due to contractor's construction works 7. Discuss mitigation measures with IEC, ER and Contractor within 4 working of identification of an exceedance 8. Ensure mitigation measures are implemented; 9. Increase the monitoring frequency to daily until no exceedance of Limit Level. 	<ol style="list-style-type: none"> 1. Notify IEC and ER in writing; within 24 hours of the identification of the exceedance 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Submit the results of the investigation to IEC and ER within 3 working days of the identification of an exceedance 6. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 4 working days of the identification of an exceedance 7. Implement the agreed mitigation measures within reasonable time scale 	<ol style="list-style-type: none"> 1. Notify EPD and other relevant governmental agencies in writing within 24 hours of identification of exceedance 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 3. Request Contractor to critically review the working methods; 4. Ensure remedial measures are properly implemented 5. Assess the effectiveness of the implemented mitigation measures. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET 2. Confirm ET assessment if exceedance is due / not due to the works 3. Discuss with ET, ER and Contractor on the mitigation measures. 4. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly. 5. Assess the effectiveness of the implemented mitigation measures

EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE

Event	ACTION			IEC
	ET Leader	Contractor	ER	
Limit Level being exceeded by more than one consecutive sampling days	<ol style="list-style-type: none"> 1. Repeat in-situ measurement to confirm findings; 2. Identify source(s) of impact; 3. Notify Contractor in writing within 24 hours of identification of the exceedance 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Carry out investigation 6. Report the results of investigation to the Contractor within 3 working days of identification of exceedance and advise contractor if exceedance is due to contractor's construction works 7. Discuss mitigation measures with IEC, ER and Contractor; 8. Ensure mitigation measures are implemented; 9. Increase the monitoring frequency to daily until no exceedance of Limit Level for two consecutive days. 	<ol style="list-style-type: none"> 1. Notify ER and IEC in writing within 24 hours of the identification of the exceedance and Rectify unacceptable practice; 2. Check all plant and equipment; 3. Consider changes of working methods; 4. Submit the results of the investigation to IEC and ER within 3 working days of the identification of an exceedance 5. Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 4 working days; 6. Implement the agreed mitigation measures within reasonable time scale 7. As directed by the Engineer, to slow down or to stop all or part of the marine work or construction activities. 	<ol style="list-style-type: none"> 1. Notify EPD and other relevant governmental agencies in writing within 24 hours of identification of exceedance 2. Discuss with IEC, ET and Contractor on the proposed mitigation measures; 3. Request Contractor to critically review the working methods; 6. Ensure remedial measures are properly implemented 4. Assess the effectiveness of the implemented mitigation measures; 5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the marine work until no exceedance of Limit Level. 	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET 2. Confirm ET assessment if exceedance is due / not due to the works 3. Discuss with ER, ET and Contractor on the mitigation measures. 4. Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly. 5. Assess the effectiveness of the implemented mitigation measures.

Appendix

G

Work Programme

ID	Task Name	Baseline Start	Baseline Finish	Start	Finish	Duration	Predecessor	Time risk allowa	Total Slack	Actual Start	Actual Finish	% Complet	Gantt Chart (2022-2023)																	
													22	19	26	2	9	16	23	30	6	13	20	27	6	13	20	27	3	10
1	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%	[Gantt bar from 1/1/22 to 31/12/23]																	
2	Contract date , Date of the Letter of Acceptance (assumed)	Mon 20/12/21	Mon 20/12/21	Mon 20/12/21	Mon 20/12/21	0 days			742 days	NA	NA	0%	[Gantt bar from 20/12/21 to 20/12/21]																	
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 days	NA	NA	0%	[Gantt bar from 1/1/22 to 1/1/22]																	
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%	[Gantt bar from 1/1/22 to 1/1/22]																	
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%	[Gantt bar from 1/1/22 to 1/1/22]																	
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%	[Gantt bar from 1/1/22 to 1/1/22]																	
7	Date for Completion of the Works	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	0 days			1 day	NA	NA	0%	[Gantt bar from 31/12/23 to 31/12/23]																	
8	Completion Date of Section 1 of the Works	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	0 days			0 days	NA	NA	0%	[Gantt bar from 31/12/23 to 31/12/23]																	
9	Completion Date of Section 2 of the Works	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	0 days			0 days	NA	NA	0%	[Gantt bar from 31/12/23 to 31/12/23]																	
10	Completion Date of Section 3 of the Works	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	0 days			0 days	NA	NA	0%	[Gantt bar from 31/12/23 to 31/12/23]																	
11	Planned completion dates	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	0 days			0 days	NA	NA	0%	[Gantt bar from 31/12/23 to 31/12/23]																	
12	Planned completion date of Section 1	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	0 days			0 days	NA	NA	0%	[Gantt bar from 31/12/23 to 31/12/23]																	
13	Planned completion date of Section 2	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	0 days			0 days	NA	NA	0%	[Gantt bar from 31/12/23 to 31/12/23]																	
14	Planned completion date of Section 3	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	0 days			0 days	NA	NA	0%	[Gantt bar from 31/12/23 to 31/12/23]																	
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 days	NA	NA	0%	[Gantt bar from 1/1/22 to 1/1/22]																	
16	Portion A2, A3a, A3b, A3c, A4, A5a, A5b, A7c2, A10 and A11 (within 60 days 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%	[Gantt bar from 1/1/22 to 1/1/22]																	
17	Portion B1, B3, B6a, B6b and B7 (within 60 days 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%	[Gantt bar from 1/1/22 to 1/1/22]																	
18	Portion A1, A7a, A7b, A7c1, A9, A9a and B6c (7 day's advance notice after starting date)	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	0 days			0 days	Sat 1/1/22	Sat 1/1/22	100%	[Gantt bar from 1/1/22 to 1/1/22]																	
19	Portion B6c (7 day's 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%	[Gantt bar from 1/1/22 to 1/1/22]																	
20	Hand back of the Site	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	0 days			0 days	NA	NA	0%	[Gantt bar from 31/12/23 to 31/12/23]																	
21	Portion A2, A3a, A3b, A3c, A4, A5a, A7c2, A10 and A11 (or at an earlier date notified by the Project Manager with 30 days' advance notice)	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	0 days			0 days	NA	NA	0%	[Gantt bar from 31/12/23 to 31/12/23]																	
22	Portion A1, A7b, A7c1, A9 and A9a (or at an earlier date as notified by the Project Manager with 30 days' advance notice)	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	0 days			0 days	NA	NA	0%	[Gantt bar from 31/12/23 to 31/12/23]																	
23	Portion B1, B3, B6a, B6b and B7 (or at an earlier date as notified by the Project Manager with 30 days' advance notice)	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	0 days			0 days	NA	NA	0%	[Gantt bar from 31/12/23 to 31/12/23]																	
24	Portion B6c (or at an earlier date as notified by the Project Manager with 30 days' advance notice)	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	0 days			0 days	NA	NA	0%	[Gantt bar from 31/12/23 to 31/12/23]																	
25	Section 1 of the Works - Tseung Kwan O Area 137 Fill Bank	Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days	4SS		0 days	Sat 1/1/22	NA	47%	[Gantt bar from 1/1/22 to 31/12/23]																	
26	Taking over the existing facilities at the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	1 day	4SS	0	0 days	Sat 1/1/22	Sat 1/1/22	100%	[Gantt bar from 1/1/22 to 1/1/22]																	
27	Operation of the the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site	Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days	26SS	0	0 days	Sat 1/1/22	NA	49%	[Gantt bar from 1/1/22 to 31/12/23]																	
28	Operation and maintenance of the surveillance system 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%	[Gantt bar from 1/1/22 to 31/12/23]																	
29	Operation and maintenance of the existing tipping halls at the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site	Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days	26SS	0	0 days	Sat 1/1/22	NA	49%	[Gantt bar from 1/1/22 to 31/12/23]																	
30	Provision, operation and maintenance of the Crushing Plant at the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site	Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days	26SS	0	0 days	Sat 1/1/22	NA	49%	[Gantt bar from 1/1/22 to 31/12/23]																	
31	Operation and maintenance of the dewatering plant at the Tseung Kwan O Area 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%	[Gantt bar from 1/1/22 to 31/12/23]																	
32	Collection and delivery of Public Fill by barges from the Chai Wan and Mui Wo Barging Points to the TKO Area 137 Fill Bank within Portion A of the Site	Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days	26SS	0	0 days	Sat 1/1/22	NA	49%	[Gantt bar from 1/1/22 to 31/12/23]																	

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Task		External Tasks		Duration-only		External Tasks	
Split		External Milestone		Manual Summary Rollup		External Milestone	
Milestone		Inactive Milestone		Manual Summary		Progress	
Summary		Inactive Summary		Start-only		Deadline	
Project Summary		Manual Task		Finish-only		Slack	

ID	Task Name	Baseline Start	Baseline Finish	Start	Finish	Duration	Predecessors	Time Allowance	Total Slack	Actual Start	Actual Finish	% Complete	Gantt Chart (Jan '23 to Apr '23)											
33	Construction of Gabion wall	NA	NA	Sat 19/2/22	Sun 31/12/23	681 days			0 days	Sat 19/2/22	NA	14%	[Gantt bar from 19/2/22 to 31/3/23]											
34	Preparing and submitting a method statement for approval	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%	[Gantt bar from 19/2/22 to 2/3/22]											
35	Preparing and submitting the material submission	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%	[Gantt bar from 19/2/22 to 2/3/22]											
36	Obtaining approval from the Project Manager	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%	[Gantt bar from 26/4/22 to 26/4/22]											
37	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%	[Gantt bar from 4/7/22 to 31/12/23]											
38	Re-surfacing of the access road at A11 TKOFB	NA	NA	Mon 21/3/22	Fri 22/4/22	33 days			0 days	Mon 21/3/22	Fri 22/4/22	100%	[Gantt bar from 21/3/22 to 22/4/22]											
39	Submission of method statement of re-surfacing the access road	NA	NA	Mon 21/3/22	Fri 25/3/22	5 days		0	0 days	Mon 21/3/22	Fri 25/3/22	100%	[Gantt bar from 21/3/22 to 25/3/22]											
40	Obtaining approval from the Project Manager	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%	[Gantt bar from 7/4/22 to 7/4/22]											
41	Milling off the existing pavement, overlaying new pavement on the access road	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%	[Gantt bar from 15/4/22 to 22/4/22]											
42	PMI no.3 Trial Production of blanket layer material recycled from public fill	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%	[Gantt bar from 28/6/22 to 30/11/22]											
43	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%	[Gantt bar from 28/6/22 to 29/7/22]											
44	Obtaining approval from the Project Manager	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%	[Gantt bar from 17/8/22 to 17/8/22]											
45	Manufacturing and delivery of screening machine	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%	[Gantt bar from 22/7/22 to 11/8/22]											
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%	[Gantt bar from 17/10/22 to 30/11/22]											
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%	[Gantt bar from 30/8/22 to 23/1/23]											
48	Submission of method statement for approval	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%	[Gantt bar from 30/8/22 to 30/8/22]											
49	Obtaining approval from the Project Manager	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%	[Gantt bar from 31/8/22 to 31/8/22]											
50	Ordering and delivery of C easy system hardware to site	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%	[Gantt bar from 1/9/22 to 8/9/22]											
51	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%	[Gantt bar from 9/9/22 to 27/9/22]											
52	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 30/11/22	100%	[Gantt bar from 22/11/22 to 30/11/22]											
53	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%	[Gantt bar from 1/12/22 to 22/1/23]											
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%	[Gantt bar from 23/1/23 to 23/1/23]											
55	Handing over the facilities at the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site to the Employer	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	0 days	8SS	0	0 days	NA	NA	0%	[Gantt bar from 31/12/23 to 31/12/23]											
56	Planned Completion Date (Section 1)	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	0 days			1 day	NA	NA	0%	[Gantt bar from 31/12/23 to 31/12/23]											
57	Section 2 of the Works - Tuen Mun Area 38 Fill Bank	Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days			0 days	Sat 1/1/22	NA	51%	[Gantt bar from 1/1/22 to 31/12/23]											
58	Taking over the existing facilities at the Tuen Mun Area 38 Fill Bank within Portion B of the Site	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	Sat 1/1/22	1 day	5SS	0	0 days	Sat 1/1/22	Sat 1/1/22	100%	[Gantt bar from 1/1/22 to 1/1/22]											
59	Operation of the Tuen Mun Area 38 Fill Bank within Portion B of 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%	[Gantt bar from 1/1/22 to 31/12/23]											
60	Operation and maintenance of the surveillance system within Portion B of 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%	[Gantt bar from 1/1/22 to 31/12/23]											
61	Operation and maintenance of the existing tipping halls at the Tuen Mun Area 38 Fill Bank within Portion B of 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%	[Gantt bar from 1/1/22 to 31/12/23]											
62	Operation and Maintenance of the Crushing Plant at the Tuen Mun Area 38 Fill Bank within Portion B of 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%	[Gantt bar from 1/1/22 to 31/12/23]											
63	Operation and maintenance of glass cullet storage compartment at the Tuen Mun Area 38 Fill Bank within Portion B of 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%	[Gantt bar from 1/1/22 to 31/12/23]											
64	PMI no.05 Construction of vehicle washing house facilities	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%	[Gantt bar from 6/4/22 to 2/10/22]											
65	Submission of method statement of vehicle washing house facilities	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%	[Gantt bar from 6/4/22 to 6/4/22]											

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Task		External Tasks		Duration-only		External Tasks	
Split		External Milestone		Manual Summary Rollup		External Milestone	
Milestone		Inactive Milestone		Manual Summary		Progress	
Summary		Inactive Summary		Start-only		Deadline	
Project Summary		Manual Task		Finish-only		Slack	

ID	Task Name	Baseline Start	Baseline Finish	Start	Finish	Duration	Predecessor	Time Allowance	Total Slack	Actual Start	Actual Finish	% Complete	Gantt Chart (Jan '23 to Apr)											
66	Obtaining approval from the Project Manager	Mon 25/4/22	Mon 25/4/22	Mon 25/4/22	Mon 25/4/22	1 day	65	2	0 days	Mon 25/4/22	Mon 25/4/22	100%	[Gantt bar from 25/4/22 to 25/4/22]											
67	Fabrication and delivery of the vehicle washing house facilities materials on site	Fri 10/6/22	Mon 8/8/22	Fri 10/6/22	Thu 18/8/22	70 days		5	0 days	Fri 10/6/22	Thu 18/8/22	100%	[Gantt bar from 10/6/22 to 18/8/22]											
68	Installation of the vehicle washing house facilities	Tue 9/8/22	Thu 1/9/22	Tue 13/9/22	Thu 29/9/22	17 days	67	2	0 days	Tue 13/9/22	Thu 29/9/22	100%	[Gantt bar from 13/9/22 to 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%	[Gantt bar from 2/10/22 to 2/10/22]											
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	NA	68%	[Gantt bar from 31/8/22 to 23/1/23]											
71	Submission of method statement for approval	Mon 22/8/22	Sun 28/8/22	Wed 31/8/22	Wed 31/8/22	1 day		1	0 days	Wed 31/8/22	Wed 31/8/22	100%	[Gantt bar from 31/8/22 to 31/8/22]											
72	Obtaining approval from the Project Manager	Mon 29/8/22	Sun 18/9/22	Thu 1/9/22	Thu 1/9/22	1 day	71	2	0 days	Thu 1/9/22	Thu 1/9/22	100%	[Gantt bar from 1/9/22 to 1/9/22]											
73	Ordering and delivery of C easy system hardware to site	Mon 19/9/22	Wed 2/11/22	Sat 17/9/22	Wed 21/9/22	5 days	72	3	0 days	Sat 17/9/22	Wed 21/9/22	100%	[Gantt bar from 17/9/22 to 21/9/22]											
74	Installation of the C Easy system	Thu 3/11/22	Wed 16/11/22	Thu 22/9/22	Sun 9/10/22	18 days	73	2	0 days	Thu 22/9/22	Sun 9/10/22	100%	[Gantt bar from 22/9/22 to 9/10/22]											
75	Trail run of the system	Thu 17/11/22	Wed 30/11/22	Thu 24/11/22	Thu 1/12/22	8 days	74	2	0 days	Thu 24/11/22	Thu 1/12/22	100%	[Gantt bar from 24/11/22 to 1/12/22]											
76	Parallel run with the old system	Thu 1/12/22	Mon 26/12/22	Thu 1/12/22	Sun 22/1/23	53 days	75	2	8 days	Thu 1/12/22	NA	50%	[Gantt bar from 1/12/22 to 22/1/23]											
77	Operation with C easy system individually	Tue 27/12/22	Tue 27/12/22	Mon 23/1/23	Mon 23/1/23	1 day	76	0	8 days	NA	NA	0%	[Gantt bar from 23/1/23 to 23/1/23]											
78	Handing over the facilities at the Tuen Mun Area 38 Fill Bank within Portion B of the Site to the Employer	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	1 day	9SS	0	0 days	NA	NA	0%	[Gantt bar from 31/12/23 to 31/12/23]											
79	Planned Completion Date (Section 2)	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	0 days			0 days	NA	NA	0%	[Gantt bar from 31/12/23 to 31/12/23]											
80	Section 3 of the Works - Designated Reclamation Sites in the Mainland	Mon 20/12/21	Sun 31/12/23	Tue 7/12/21	Sun 31/12/23	755 days			0 days	Tue 7/12/21	NA	6%	[Gantt bar from 7/12/21 to 31/12/23]											
81	Collection and delivery of 2 million tonnes of Public Fill by vessels from Tseung Kwan O Area 137 Fill Bank and the Tuen Mun Area 38 Fill Bank to the Designated Reclamation Sites in the Mainland	Mon 20/12/21	Sun 31/12/23	Tue 7/12/21	Wed 20/12/23	744 days			11 days	Tue 7/12/21	NA	10%	[Gantt bar from 7/12/21 to 20/12/23]											
82	1st and 2nd quarter of first year	Mon 20/12/21	Thu 31/3/22	Tue 7/12/21	Tue 14/6/22	190 days			0 days	Tue 7/12/21	Tue 14/6/22	100%	[Gantt bar from 7/12/21 to 14/6/22]											
83	Installing Front End Mobile Unit (FEMU) onto the proposed vessels	Mon 20/12/21	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%	[Gantt bar from 20/5/22 to 20/5/22]											
84	Submitting application documents to EPD for application of dumping permits	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	Tue 28/12/21	100%	[Gantt bar from 28/12/21 to 28/12/21]											
85	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	Wed 25/5/22	100%	[Gantt bar from 25/5/22 to 25/5/22]											
86	Submitting Application documents to the Employer for the application of the dumping permit of waste at the sea	Mon 20/12/21	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%	[Gantt bar from 7/12/21 to 7/12/21]											
87	Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer	Tue 21/12/21	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%	[Gantt bar from 26/4/22 to 26/4/22]											
88	Obtaining all necessary permits, licenses, approvals and consents	Mon 20/12/21	Fri 31/12/21	Wed 25/5/22	Wed 25/5/22	1 day		14	0 days	Wed 25/5/22	Wed 25/5/22	100%	[Gantt bar from 25/5/22 to 25/5/22]											
89	Collection and delivery of 166666 tonnes of Public Fill	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	Tue 14/6/22	100%	[Gantt bar from 25/5/22 to 14/6/22]											
90	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 28/12/21	Mon 13/6/22	100%	[Gantt bar from 28/12/21 to 13/6/22]											
91	Submitting application documents to EPD for application of dumping permits	Fri 17/6/22	Fri 17/6/22	Tue 28/12/21	Tue 28/12/21	1 day		0	0 days	Tue 28/12/21	Tue 28/12/21	100%	[Gantt bar from 28/12/21 to 28/12/21]											
92	Obtaining the dumping permit from EPD	Sat 18/6/22	Thu 30/6/22	Wed 25/5/22	Wed 25/5/22	1 day	91	14	0 days	Wed 25/5/22	Wed 25/5/22	100%	[Gantt bar from 25/5/22 to 25/5/22]											
93	Submitting Application documents to the Employer for the application of the dumping permit of waste at the sea	Fri 20/5/22	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%	[Gantt bar from 8/4/22 to 8/4/22]											
94	Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer	Sat 21/5/22	Thu 30/6/22	Tue 26/4/22	Tue 26/4/22	1 day	93	14	0 days	Tue 26/4/22	Tue 26/4/22	100%	[Gantt bar from 26/4/22 to 26/4/22]											
95	Obtaining all necessary permits, licenses, approvals and consents	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	Wed 25/5/22	100%	[Gantt bar from 25/5/22 to 25/5/22]											
96	Collection and delivery of 499998 tonnes of Public Fill	Fri 1/7/22	Fri 30/9/22	Mon 13/6/22	Mon 13/6/22	1 day	95,92,94	14	0 days	Mon 13/6/22	Mon 13/6/22	100%	[Gantt bar from 13/6/22 to 13/6/22]											
97	4th quarter of first year	Sat 20/8/22	Sat 31/12/22	Fri 22/7/22	Fri 30/9/22	71 days			0 days	Fri 22/7/22	Fri 30/9/22	100%	[Gantt bar from 22/7/22 to 30/9/22]											

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Date: [30/12/2022]

Task		External Tasks		Duration-only		External Tasks	
Split		External Milestone		Manual Summary Rollup		External Milestone	
Milestone		Inactive Milestone		Manual Summary		Progress	
Summary		Inactive Summary		Start-only		Deadline	
Project Summary		Manual Task		Finish-only		Slack	

ID	Task Name	Baseline Start	Baseline Finish	Start	Finish	Duration	Predecessor	Time risk allowa	Total Slack	Actual Start	Actual Finish	% Complet	Gantt Chart (2022-2023)																
													19	26	2	9	16	23	30	6	13	20	27	6	13	20	27	3	10
98	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%	[Gantt bar from 17/9/22 to 4/8/22, 100% complete]																
99	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%	[Gantt bar from 1/9/22 to 5/9/22, 100% complete]																
100	Submitting 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%	[Gantt bar from 10/8/22 to 10/8/22, 100% complete]																
101	Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer (assumed on 30/9/22)	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%	[Gantt bar from 5/9/22 to 5/9/22, 100% complete]																
102	Obtaining all necessary permits, licenses, approvals and consents	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%	[Gantt bar from 5/9/22 to 30/9/22, 100% complete]																
103	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%	[Gantt bar from 5/9/22 to 19/9/22, 100% complete]																
104	1st quarter of second year	Sun 20/11/22	Fri 31/3/23	Sun 20/11/22	Fri 31/3/23	132 days			12 days	NA	NA	0%	[Summary bar from 20/11/22 to 31/3/23, 0% complete]																
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%	[Gantt bar from 18/12/22 to 18/12/22, 0% complete]																
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%	[Gantt bar from 19/12/22 to 31/12/22, 0% complete]																
107	Submitting 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%	[Gantt bar from 20/11/22 to 20/11/22, 0% complete]																
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%	[Gantt bar from 21/11/22 to 31/12/22, 0% complete]																
109	Obtaining all necessary permits, licenses, approvals and consents	Sun 18/12/22	Sat 31/12/22	Sun 18/12/22	Sat 31/12/22	14 days		2	12 days	NA	NA	0%	[Gantt bar from 18/12/22 to 31/12/22, 0% complete]																
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%	[Gantt bar from 1/1/23 to 31/3/23, 0% complete]																
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%	[Summary bar from 18/2/23 to 30/6/23, 0% complete]																
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%	[Gantt bar from 18/3/23 to 18/3/23, 0% complete]																
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%	[Gantt bar from 19/3/23 to 31/3/23, 0% complete]																
114	Submitting 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%	[Gantt bar from 18/2/23 to 18/2/23, 0% complete]																
115	Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer (assumed on 30/9/22)	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%	[Gantt bar from 19/2/23 to 31/3/23, 0% complete]																
116	Obtaining all necessary permits, licenses, approvals and consents	Sat 18/3/23	Fri 31/3/23	Sat 18/3/23	Fri 31/3/23	14 days		2	12 days	NA	NA	0%	[Gantt bar from 18/3/23 to 31/3/23, 0% complete]																
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%	[Gantt bar from 1/4/23 to 30/6/23, 0% complete]																
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%	[Summary bar from 20/5/23 to 30/9/23, 0% complete]																
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%	[Gantt bar from 17/6/23 to 17/6/23, 0% complete]																
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%	[Gantt bar from 18/6/23 to 30/6/23, 0% complete]																
121	Submitting 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%	[Gantt bar from 20/5/23 to 20/5/23, 0% complete]																
122	Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer (assumed on 30/9/22)	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%	[Gantt bar from 21/5/23 to 30/6/23, 0% complete]																
123	Obtaining all necessary permits, licenses, approvals and consents	Sat 17/6/23	Fri 30/6/23	Sat 17/6/23	Fri 30/6/23	14 days		2	12 days	NA	NA	0%	[Gantt bar from 17/6/23 to 30/6/23, 0% complete]																
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%	[Gantt bar from 1/7/23 to 30/9/23, 0% complete]																
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%	[Summary bar from 20/8/23 to 20/12/23, 0% complete]																
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%	[Gantt bar from 17/9/23 to 17/9/23, 0% complete]																
127	Obtaining the dumping permit from EPD (assumed on 30/9/23)	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%	[Gantt bar from 18/9/23 to 30/9/23, 0% complete]																

Project: 3 month rolling programme Jan23-mar 23 CV/2021/09
Date: [30/12/2022]

Task		External Tasks		Duration-only		External Tasks		External Milestone
Split		External Milestone		Manual Summary Rollup		External Milestone		
Milestone		Inactive Milestone		Manual Summary		Progress		
Summary		Inactive Summary		Start-only		Deadline		
Project Summary		Manual Task		Finish-only		Slack		

ID	Task Name	Baseline Start	Baseline Finish	Start	Finish	Duration	Predecessor	Time Allowance	Total Slack	Actual Start	Actual Finish	% Complete	Gantt Chart (2022-2023)																	
													22	19	26	2	Jan '23			Feb '23			Mar '23			Apr				
																	9	16	23	30	6	13	20	27	6	13	20	27	3	10
128	Submitting Application documents to the Employer for the application of the dumping permit of waste at the sea	Sun 20/8/23	Sun 20/8/23	Sun 20/8/23	Sun 20/8/23	1 day		0	12 days	NA	NA	0%	[Gantt bar from 20/8/23 to 20/8/23]																	
129	Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer (assumed on 30/9/23)	Mon 21/8/23	Sat 30/9/23	Mon 21/8/23	Sat 30/9/23	41 days	128	14	12 days	NA	NA	0%	[Gantt bar from 21/8/23 to 30/9/23]																	
130	Obtaining all necessary permits, licenses, approvals and consents	Sun 17/9/23	Sat 30/9/23	Sun 17/9/23	Sat 30/9/23	14 days		0	12 days	NA	NA	0%	[Gantt bar from 17/9/23 to 30/9/23]																	
131	Collection and delivery of 250000 tonnes of Public Fill	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%	[Gantt bar from 2/10/23 to 20/12/23]																	
132	Removal, excavation and deposition of stockpiled and/or deposited Public Fill within the Designated Reclamation Sites in the Mainland	Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days	6SS		0 days	NA	NA	0%	[Gantt bar from 1/1/22 to 31/12/23]																	
133	Removal, excavation and deposition of stockpiled and/or deposited public fill	Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days		14	0 days	NA	NA	0%	[Gantt bar from 1/1/22 to 31/12/23]																	
134	Operation and maintenance of the existing navigation channel and turning basins in association with the existing berthing facility at Zone E of the Designated Reclamation Sites in the Mainland	Sat 1/1/22	Sun 31/12/23	Sat 1/1/22	Sun 31/12/23	730 days	6SS		0 days	Sat 1/1/22	NA	20%	[Gantt bar from 1/1/22 to 31/12/23]																	
135	Operation and maintenance of the existing navigation channel and turning basins	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%	[Gantt bar from 1/1/22 to 31/12/23]																	
136	Design, construction, operation and maintenance of the new navigation channel and turning basins in association with the new berthing facility at Zone B of the Designated Reclamation Sites in the Mainland (subject to Project's Manager's instruction)	Sat 12/12/09	Sat 12/12/09	Thu 16/6/22	Sun 31/12/23	564 days			0 days	NA	NA	0%	[Gantt bar from 16/6/22 to 31/12/23]																	
137	Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer for Zone A & B (assumed on 31/12/21)	Fri 31/12/21	Mon 31/1/22	Thu 16/6/22	Thu 16/6/22	1 day		0	2 days	NA	NA	0%	[Gantt bar from 16/6/22 to 16/6/22]																	
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%	[Gantt bar from 17/6/22 to 16/7/22]																	
139	Obtaining all necessary design approvals and consents	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%	[Gantt bar from 17/7/22 to 15/8/22]																	
140	Construction of the new navigation channel and turning basins	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%	[Gantt bar from 16/8/22 to 12/1/23]																	
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%	[Gantt bar from 13/1/23 to 11/2/23]																	
142	Operation and maintenance of navigation channel and turning basins	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%	[Gantt bar from 14/2/23 to 31/12/23]																	
143	Design, construction, operation and maintenance of new berthing facilities at Zone B of the Designated Reclamation Sites in the Mainland (subject to Project's Manager's instruction)	Fri 31/12/21	Sun 31/12/23	Thu 16/6/22	Sun 31/12/23	564 days			0 days	NA	NA	0%	[Gantt bar from 16/6/22 to 31/12/23]																	
144	Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer for Zone A & B (assumed on 31/12/21)	Fri 31/12/21	Fri 31/12/21	Thu 16/6/22	Thu 16/6/22	1 day			0 days	NA	NA	0%	[Gantt bar from 16/6/22 to 16/6/22]																	
145	Preparation of design submission	Sat 1/1/22	Sun 30/1/22	Fri 17/6/22	Sat 16/7/22	30 days	144	7	0 days	NA	NA	0%	[Gantt bar from 17/6/22 to 16/7/22]																	
146	Obtaining all necessary design approvals and consents	Mon 31/1/22	Tue 1/3/22	Sun 17/7/22	Mon 15/8/22	30 days	145	7	0 days	NA	NA	0%	[Gantt bar from 17/7/22 to 15/8/22]																	
147	Construction of the berthing facilities	Wed 2/3/22	Sun 28/8/22	Tue 16/8/22	Sat 11/2/23	180 days	146	14	0 days	NA	NA	0%	[Gantt bar from 16/8/22 to 11/2/23]																	
148	Obtaining the construction completion certificate	Mon 29/8/22	Tue 27/9/22	Sun 12/2/23	Mon 13/3/23	30 days	147	7	0 days	NA	NA	0%	[Gantt bar from 12/2/23 to 13/3/23]																	
149	Operation and maintenance of new berthing facilities	Wed 28/9/22	Sun 31/12/23	Tue 14/3/23	Sun 31/12/23	293 days	148	14	0 days	NA	NA	0%	[Gantt bar from 14/3/23 to 31/12/23]																	
150	Design and construction of seawalls (approximate 200m) in association with new berthing facility at Zone B of the Designated Reclamation Sites in the Mainland	Fri 10/6/22	Sat 4/2/23	Sun 1/1/23	Fri 30/6/23	181 days			184 days	NA	NA	0%	[Gantt bar from 1/1/23 to 30/6/23]																	
151	Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer for Zone A & B	Sat 1/1/22	Sat 1/1/22	Sun 1/1/23	Sun 1/1/23	1 day		0	184 days	NA	NA	0%	[Gantt bar from 1/1/23 to 1/1/23]																	
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%	[Gantt bar from 2/1/22 to 31/1/22]																	

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Date: [30/12/2022]

Task		External Tasks		Duration-only		External Tasks		External Milestone
Split		External Milestone		Manual Summary Rollup		External Milestone		
Milestone		Inactive Milestone		Manual Summary		Progress		
Summary		Inactive Summary		Start-only		Deadline		
Project Summary		Manual Task		Finish-only		Slack		

ID	Task Name	Baseline Start	Baseline Finish	Start	Finish	Duration	Predecessor	Time risk allowance	Total Slack	Actual Start	Actual Finish	% Complete	Gantt Chart (Timeline: Dec '22 to Apr '23)											
153	Obtaining all necessary design approvals and consents	Tue 1/2/22	Wed 2/3/22	Wed 1/2/23	Thu 2/3/23	30 days	152	7	184 days	NA	NA	0%	Gantt bar from 1/2/23 to 2/3/23. Milestones at 1/1/23 and 3/1/23.											
154	Construction of seawalls (subject to Project's Manager's instruction)	Thu 3/3/22	Tue 31/5/22	Fri 3/3/23	Wed 31/5/23	90 days	153	14	184 days	NA	NA	0%	Gantt bar from 3/3/23 to 31/5/23.											
155	Obtaining the construction completion certificate (subject to Project's Manager's instruction)	Wed 1/6/22	Thu 30/6/22	Thu 1/6/23	Fri 30/6/23	30 days	154	7	184 days	NA	NA	0%	Gantt bar from 1/6/23 to 30/6/23.											
156	Planned Completion Date (Section 3)	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	Sun 31/12/23	0 days			1 day	NA	NA	0%	Milestone at 31/12/23.											

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Date: [30/12/2022]

Task		External Tasks		Duration-only		External Tasks	
Split		External Milestone		Manual Summary Rollup		External Milestone	
Milestone		Inactive Milestone		Manual Summary		Progress	
Summary		Inactive Summary		Start-only		Deadline	
Project Summary		Manual Task		Finish-only		Slack	

Appendix

H

Implementation Schedule of Environmental Mitigation Measures (EMIS)

Environmental Mitigation Implementation Schedule

Environmental Protection Measures	Location	Implementation Status			
		Implemented	Partially implemented	Not implemented	Not Applicable
Air Quality					
• Dust control / mitigation measures shall be provided to prevent dust nuisance.	All areas		√		
• A buffer zone of at least 100m shall be maintained between the edge of the stockpiling area and the nearest ASRs at the TKO Industrial Estate. Within the buffer zone, no dusty material shall be stockpiled and no loading / unloading and similar activities should be allowed.	Northern Site Boundary	√			
• Water sprays shall be provided and used to dampen materials.	All areas	√			
• Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions.	All areas	√			
• All vehicles shall be restrict to a maximum speed of 10 km per hour.	All areas	√			
• Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin.	Site Egress	√			
• The designated site main haul rout shall be paved or regular watering.	All haul roads	√			
• Frequent watering of work site shall be at least three times per day.	All areas	√			
• Wheel washing facilities including high pressure water jet shall be provided at the entrance of work site.	Site Egress	√			
• Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.	Site Egress	√			
• The temporary slope surfaces, especially those facing to the north of the site shall be covered with impermeable sheet or sprayed with water or protected by other method approved by CEDD.	All areas	√			
• 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	√			
• When fill material is transfer by belt conveyor systems, the conveyors shall be enclosed on top and 2 sides.	C&DMSF	√			
• The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt.	C&DMFS	√			
• 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.		√			
Noise Impact		√			
• 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	√			
• Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.	All areas	√			
• Air compressors and hand held breakers should have noise labels.	All areas	√			
• Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.	All areas	√			
• Noisy equipment and mobile plant shall always be site away from NSRs.	All areas	√			

Environmental Protection Measures	Location	Implementation Status			
		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	√			
▪ The permanent drainage channels should have sediment basin, traps and baffles and maintain properly.	All areas	√			
▪ Temporary intercepting drains should be used at the stockpiling area to divert polluted stormwater to the intercepting channels. Earth bunds and sand bay barriers shall be used to assist the diversion of polluted stormwater to the intercepting channels.	All areas	√			
▪ Manholes should be covered and sealed.	All areas	√			
▪ Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding.	All areas		√		
▪ A buffer distance of at least 100m shall be maintained between the boundary of the public fill stockpiling area and the sea front.	Public fill stockpiling area	√			
▪ A buffer distance of at least 20m shall be maintained between the boundary of the C&DMFS and the seafront.	C&DMFS	√			
▪ The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.	All areas	√			
▪ 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	√			
▪ 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	√			
▪ Existing and newly constructed Catchpits, sand and silt removal facilities and intercepting channels shall be maintained, and the deposited silt and grit shall be removed weekly and on a need basis especially at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	All areas	√			
▪ A wheel washing bay shall be provided at the site exit and wash-water shall have sand and silt settled out or removed before being discharged into storm drains.	Wheel Washing facility	√			
▪ The section of construction road between wheel washing bay and the public road shall be paved with concrete, bituminous materials or hardcores to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	Wheel Washing facility	√			
▪ 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	√			
▪ Oil intercept in addition of sand / silt removal facilities shall be provided at the car parking areas and work shop.	All areas	√			
▪ Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water.	Barge Handling Area (BHA)	√			
▪ The barges shall be in right size such that adequate clearance in maintained between the vessels and the seabed at all states of the tide to ensure the undue turbidity is not generated by turbulence from vessel movement or propeller wash.	Barge Handling Area (BHA)	√			
▪ All vessels used for transportation of fill material shall have tight fitting seals to their bottom openings to prevent leakage of material during transport.	Barge Handling Area (BHA)	√			
▪ Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.	Along the seafront	√			
▪ 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)	√			
▪ The work activities shall not cause any visible foam, oil, grease, scum, litter or other objectionable matters to be present on the water in the vicinity of the barging facilities.	Along the seafront	√			
▪ Existing silt curtain at the outward side of the basin near the Barging Handling Area throughout the period shall be repair, maintain and service when there is public fill intake by barges to the Fill Bank in accordance with PS Clause 1.68. The total length of the silt curtains shall not be less than 160m, and a gap of about 80m shall be left open for access of barges. The silt curtain shall be properly maintained such that it can also serve the function of refuse containment boom to confine floating refuse.	Along the seafront	√			
▪ A waste collection vessel shall be deployed to remove floating debris.	Along the seafront	√			

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

Appendix

I1

Statistical Analysis of the Trend of Suspended Solids in the Quarter

Statistical Analysis of the Trend of Suspended Solids

For Mid-Flood Tide

Station: M4

t-test

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	6.9690	1.0690	0.3086
Quarterly Mean	38	0	2.1439	0.6099	0.0989

Result:

Difference between means = 4.8251
(95% CI : 4.3320 < Diff < 5.3182)

t-value of difference = 14.8894 (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: C1

t-test

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	6.969	0.950	0.2742
Quarterly Mean	38	0	2.3377	0.5605	0.0909

Result:

Difference between means = 4.6313
(95% CI : 4.1852 < Diff < 5.0774)

t-value of difference = 16.0295 (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.

Statistical Analysis of the Trend of Suspended Solids

For Mid-Ebb Tide

Station: M4

t-test

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	6.897	1.449	0.4183
Quarterly Mean	38	0	2.0711	0.6918	0.1122

Result:

Difference between means = 4.8259
(95% CI : 4.2120 < Diff < 5.4398)

t-value of difference = 11.1432 (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: C1

t-test

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	6.933	1.045	0.3017
Quarterly Mean	38	0	2.2351	0.7051	0.1144

Result:

Difference between means = 4.6979
(95% CI : 4.1680 < Diff < 5.2278)

t-value of difference = 14.5617 (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.

Appendix

I2

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

Statistical Analysis of the Trend of Suspended Solids

For Mid-Flood Tide

Station: C1a

t-test

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	4.1580	1.3670	0.3946
Quarterly Mean	38	0	2.3553	0.7887	0.1279

Result:

Difference between means = 1.8027
(95% CI : 1.1684 < Diff < 2.4370)
t-value of difference = 4.3456 (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

t-test

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	3.9020	1.1420	0.3297
Quarterly Mean	38	0	2.3298	0.7014	0.1138

Result:

Difference between means = 1.5722
(95% CI : 1.0239 < Diff < 2.1205)
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 = >0.99
The result of suspended solids in this reporting period is lower than that of 130% baseline.

Station: M5

t-test

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	3.9360	1.4140	0.4082
Quarterly Mean	38	0	2.3535	0.8914	0.1446

Result:

Difference between means = 1.5825
(95% CI : 0.8936 < Diff < 2.2714)
t-value of difference = 3.6543 (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.

Statistical Analysis of the Trend of Suspended Solids

For Mid-Ebb Tide

Station: C1a

t-test

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	4.2860	1.3530	0.3906
Quarterly Mean	38	0	2.4303	0.7813	0.1267

Result:

Difference between means = 1.8557

(95% CI : 1.2276 < Diff < 2.4838)

t-value of difference = 4.5193 (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

t-test

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	4.0900	1.3250	0.3825
Quarterly Mean	38	0	2.2741	0.6972	0.1131

Result:

Difference between means = 1.8159

(95% CI : 1.2290 < Diff < 2.4028)

t-value of difference = 4.5526 (13 degrees of freedom)

Calculated t-value > Critical t-value

Conclusion:

There is statistically significant difference between the groups.

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

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

Station: M5

t-test

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	3.7900	1.4650	0.4229
Quarterly Mean	38	0	2.1719	0.6413	0.1040

Result:

Difference between means = 1.6181

(95% CI : 1.0193 < Diff < 2.2169)

t-value of difference = 3.7153 (12 degrees of freedom)

Calculated t-value > Critical t-value

Conclusion:

There is statistically significant difference between the groups.

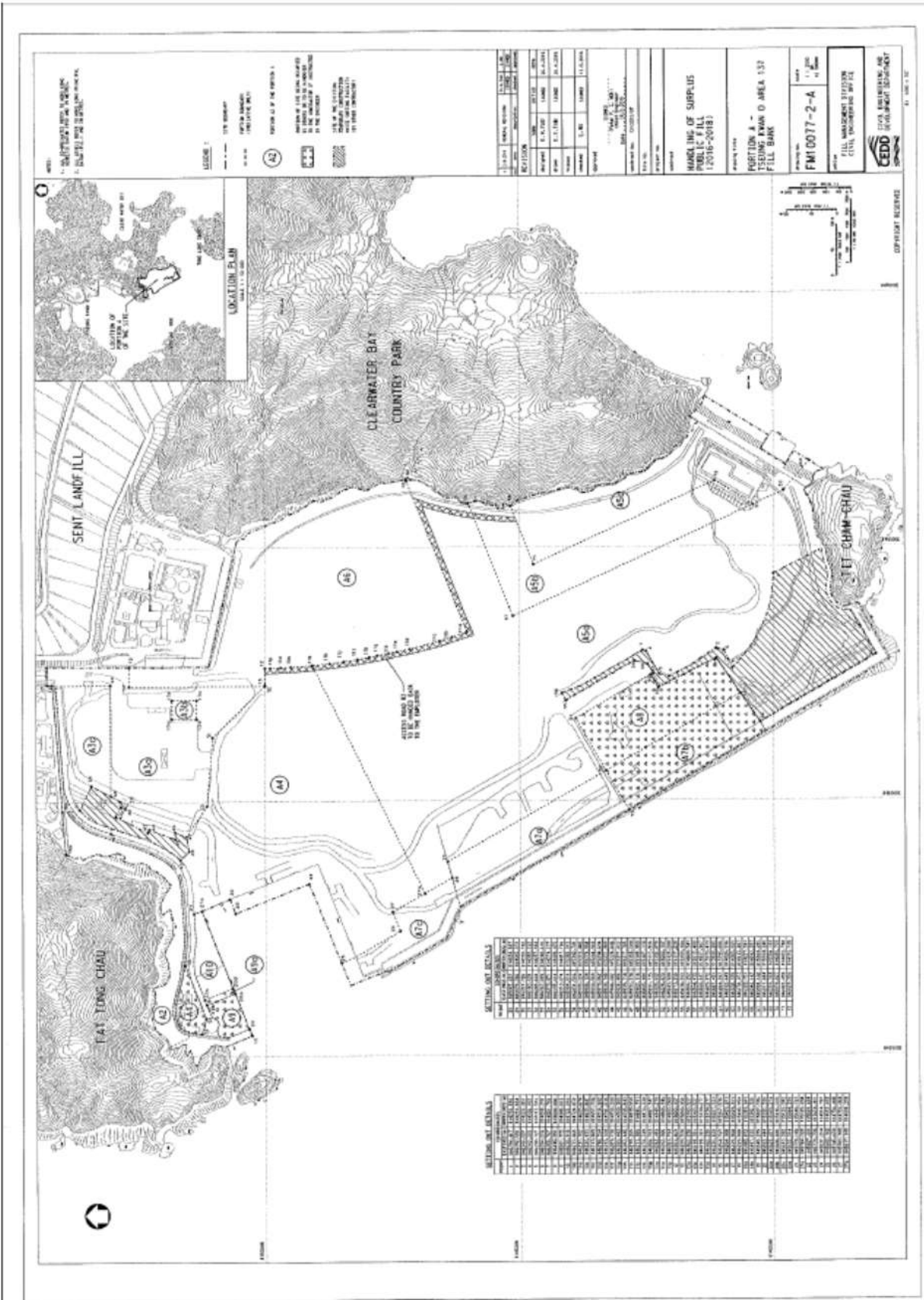
The P-Value of 130% Baseline Mean is larger than quarterly mean = >0.99

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

Appendix

J

Site General Layout plan



Appendix

K

Weather Condition

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

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg.C)	Absolute Daily Min (deg. C)					
1	1023.3	19.3	16.9	14.5	10.2	65	0.1	10	23.4
2	1023.1	21.6	18.7	17.2	12	65	Trace	20	21.8
3	1023.7	19.2	17.3	16.1	11.4	69	Trace	10	24.1
4	1023.4	19.9	17.4	15.8	12.7	74	Trace	60	26.8
5	1023.4	21.4	18.5	16.8	14.3	77	-	60	21.7
6	1022.6	23.4	19.8	17	11.9	62	-	10	18.4
7	1020.5	21.3	19.1	17.9	10.9	59	-	60	23.8
8	1020	20	18.6	17	9.8	57	Trace	70	35
9	1019.5	21.4	19.7	18.2	14.3	72	0.1	50	22.8
10	1018.8	19	18.2	17.6	16.8	91	5.5	40	23.4
11	1017.6	19.1	18.1	17	15.9	87	3.2	60	31
12	1014.5	19.6	18.8	17.5	16.8	88	0.5	50	26.9
13	1011	23.9	21.7	18.9	20.5	93	4.5	20	14.5
14	1009.4	24.7	22.7	20	20.9	90	3.4	250	9.4
15	1014.4	21.6	18.4	13	14.7	80	Trace	10	25.9
16	1021.6	13.2	12.3	11.3	6.2	66	-	360	30.6
17	1023.6	15.2	13.2	11	8	71	-	10	24.2
18	1024.1	17.1	14.3	11.5	6.2	58	-	10	22.5
19	1022.3	18.7	16.1	13.3	8.9	63	-	40	14.4
20	1021.4	20.9	17.6	15.9	10.1	62	Trace	20	20.6
21	1019.5	18.8	16.9	16	13.1	79	Trace	80	36.9
22	1016.5	22.4	18.8	16.6	15.8	83	0.6	40	15.5
23	1016.2	21.1	18.8	16.9	16.4	86	-	50	11.3
24	1024.5	18.7	14.7	12	4.3	51	0.3	10	48.6
25	1023.1	14.4	12.5	10.6	3.5	54	-	60	31.8
26	1019.3	18.6	15.7	13	9.4	66	-	60	26.8
27	1022.5	17.3	15.4	12.4	3.2	46	-	10	40.8
28	1024.1	15.7	12.9	10.6	-5.2	28	-	10	32.6
29	1023.7	16	12.8	9.8	-2.6	35	-	360	18.6
30	1022.2	18.8	15	11.7	3.5	48	-	60	18.3
31	1017.9	20.1	16.9	13.8	9.1	61	-	60	27.3

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

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

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg.C)	Absolute Daily Min (deg. C)					
1	1015.6	23.7	19.9	17.8	15.8	77	-	30	17.8
2	1018.2	21.2	19.4	17.9	15.2	77	-	80	31.4
3	1018.6	19.9	17.9	16.7	13.6	76	-	70	31.3
4	1017.4	19.1	17.4	16.6	14.2	81	0.4	70	32.8
5	1016	19.3	17.9	16.8	15	83	Trace	70	27.5
6	1014.6	21.1	19.2	17.9	16.6	85	0.1	30	14
7	1015.4	24.8	21	18.8	17.9	83	Trace	80	11.3
8	1017.1	20.1	18.5	17.2	15.8	84	Trace	70	35
9	1016.3	23.5	19.5	16.9	16.5	83	0.1	60	24.1
10	1014.9	24.2	21.2	19.5	18.9	87	0.1	20	15
11	1014.6	20.2	18.7	17.8	17.6	93	0.9	40	25.4
12	1013.9	21.1	19.9	18.7	19.1	95	Trace	40	20.4
13	1013.7	26.1	22.3	19.5	20.2	88	Trace	40	10.4
14	1018.8	20.7	18.5	16.6	11.4	64	-	10	31.4
15	1023.5	20.3	16.3	13.1	8.4	60	-	10	28.2
16	1024.7	19.9	16.8	14.5	9.3	62	-	70	28.4
17	1021.2	24	18.7	15.6	13	70	-	70	26
18	1018.2	25.1	21	18	14.6	67	-	50	13.6
19	1017.6	26.6	22.8	19.8	16.4	67	Trace	360	17.5
20	1019.2	24.1	20.1	18.2	12.8	64	-	80	26.8
21	1022.6	20.5	17.8	16.1	10.3	62	-	80	46.4
22	1022.2	20.4	16.9	14.8	9.3	61	-	80	39.7
23	1018.6	22.9	18.2	15.4	12.6	70	-	70	23.7
24	1018.9	23.4	19.8	17	13.3	67	-	50	20.1
25	1026.5	21	17.1	14.8	7.7	54	-	10	34.8
26	1029.2	21.2	16.8	14.4	8.3	58	-	80	28.2
27	1027.4	20.1	16.4	14.2	8.4	60	-	80	40.5
28	1024	22.3	17.8	14.9	12.3	71	-	70	26.8
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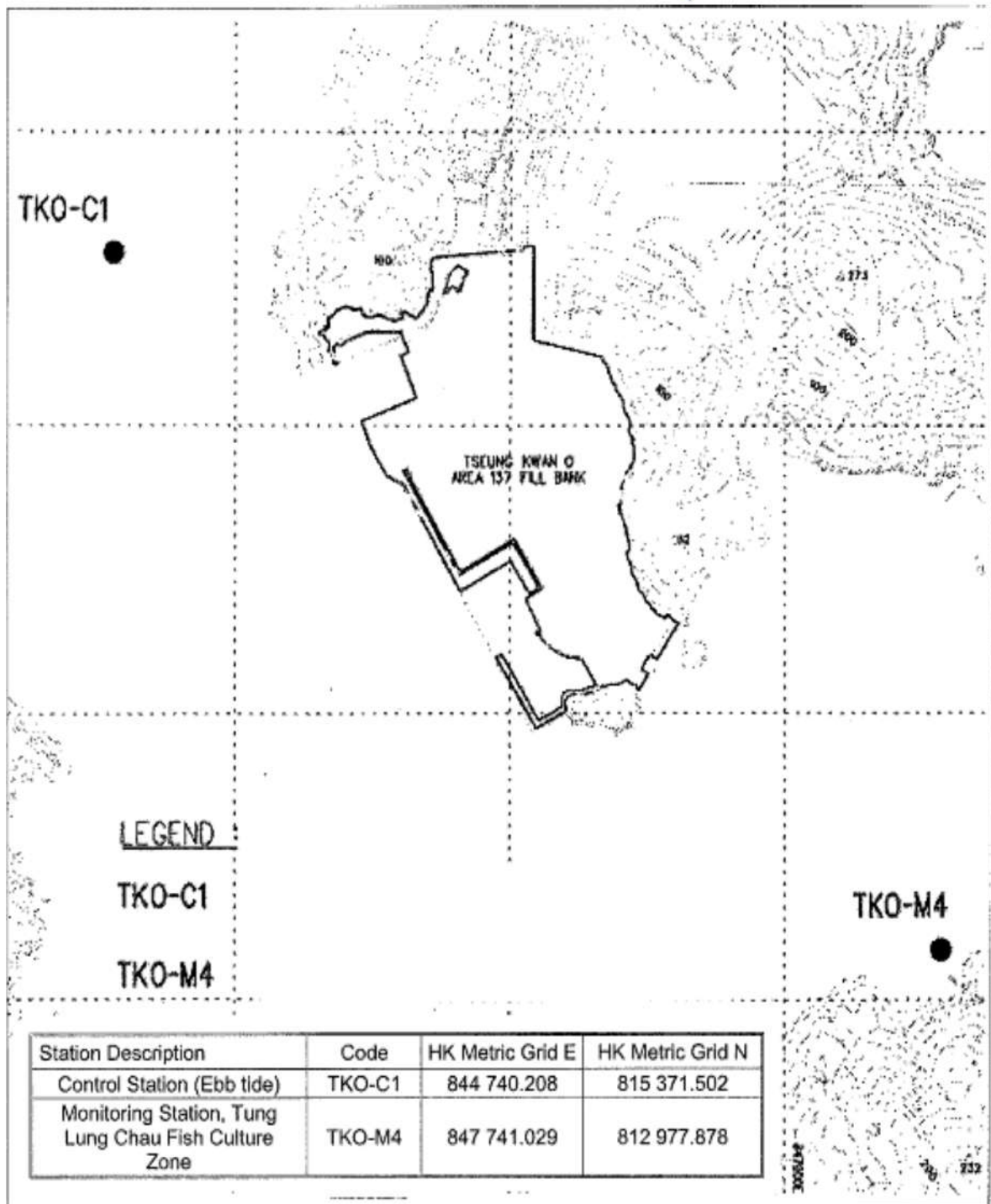
Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

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

Day	Mean Pressure (hPa)	Air Temperature			Mean Dew Point (deg. C)	Mean Relative Humidity (%)	Total Rainfall (mm)	Prevailing Wind Direction (degrees)	Mean Wind Speed (km/h)
		Absolute Daily Max (deg. C)	Mean (deg.C)	Absolute Daily Min (deg. C)					
1	1021.5	24.4	19.7	16.4	14.1	71	-	40	11.5
2	1023.8	23.2	19.8	17.8	14	70	-	80	34.7
3	1024.9	22.4	18.6	16.5	9.5	56	-	80	30.8
4	1024.4	23.8	19.6	17.3	12.4	65	-	80	17.7
5	1023.6	23.5	19.7	17.3	10.1	57	-	80	26
6	1022.4	24.1	20	17.4	8.5	50	-	70	27.8
7	1020.9	24.1	20.1	17.7	10.8	56	-	70	21.8
8	1019.7	25.7	21.6	19.1	17.3	77	-	30	8.3
9	1017.7	27	22.5	19.5	17.6	75	-	230	5
10	1017.6	26.6	22.4	20.3	15.8	68	-	70	19.8
11	1018.3	26	22.1	19.9	15.6	67	-	70	20.2
12	1018.9	25.6	22.6	20.2	16.8	71	0.1	10	13.8
13	1020.4	22.4	20.1	19.1	13.1	64	Trace	80	24.5
14	1016.8	22.9	19.7	18.7	14.8	73	-	80	20.5
15	1017.4	24.5	21	18.7	16.8	77	-	80	13.2
16	1018.4	25.8	22	19.4	16.3	72	Trace	80	17.6
17	1016.8	26.1	21.7	20	18.6	83	0.5	70	20.5
18	1015.5	26.8	22.3	19.8	18.7	80	-	90	12.6
19	1015.2	21.9	20.6	20	18.2	86	0.6	80	32.5
20	1012	24.4	21.8	20.1	19.7	88	0.3	80	18.8
21	1009.2	25.4	23.7	22.1	21	85	Trace	170	14.8
22	1008	25.6	24.7	24.1	21.7	83	Trace	190	21.9
23	1008.6	26.3	25	24.1	21.6	81	-	200	17.5
24	1011.4	29	25.6	23.3	21.8	80	-	120	16.7
25	1013.1	26.4	23.4	20.9	21.4	89	53.5	80	28.5
26	1014	21.6	20.8	20	19.2	91	5.9	50	28.6
27	1016.2	20	18.6	17.5	16.1	86	6.3	80	42.3
28	1017.6	20.1	18.7	17.2	15.9	84	Trace	70	37.1
29	1015.4	21.8	19.9	18.4	17.5	86	0.9	80	30.6
30	1012.9	21.4	20.8	19.8	18.9	89	0.3	80	22.8
31	1013.3	21.1	20.3	19.6	19	92	1.9	90	28.1

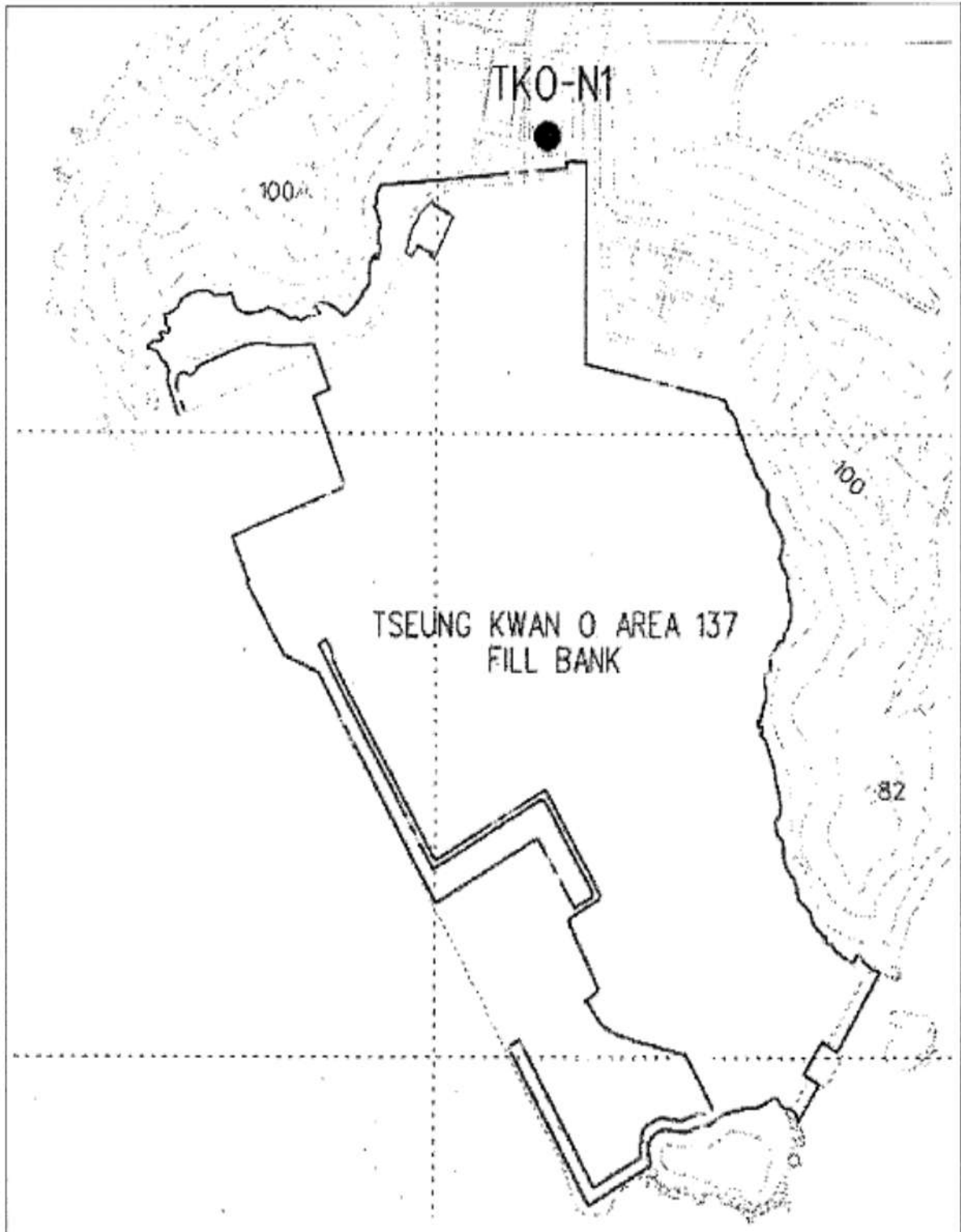
Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

Figures



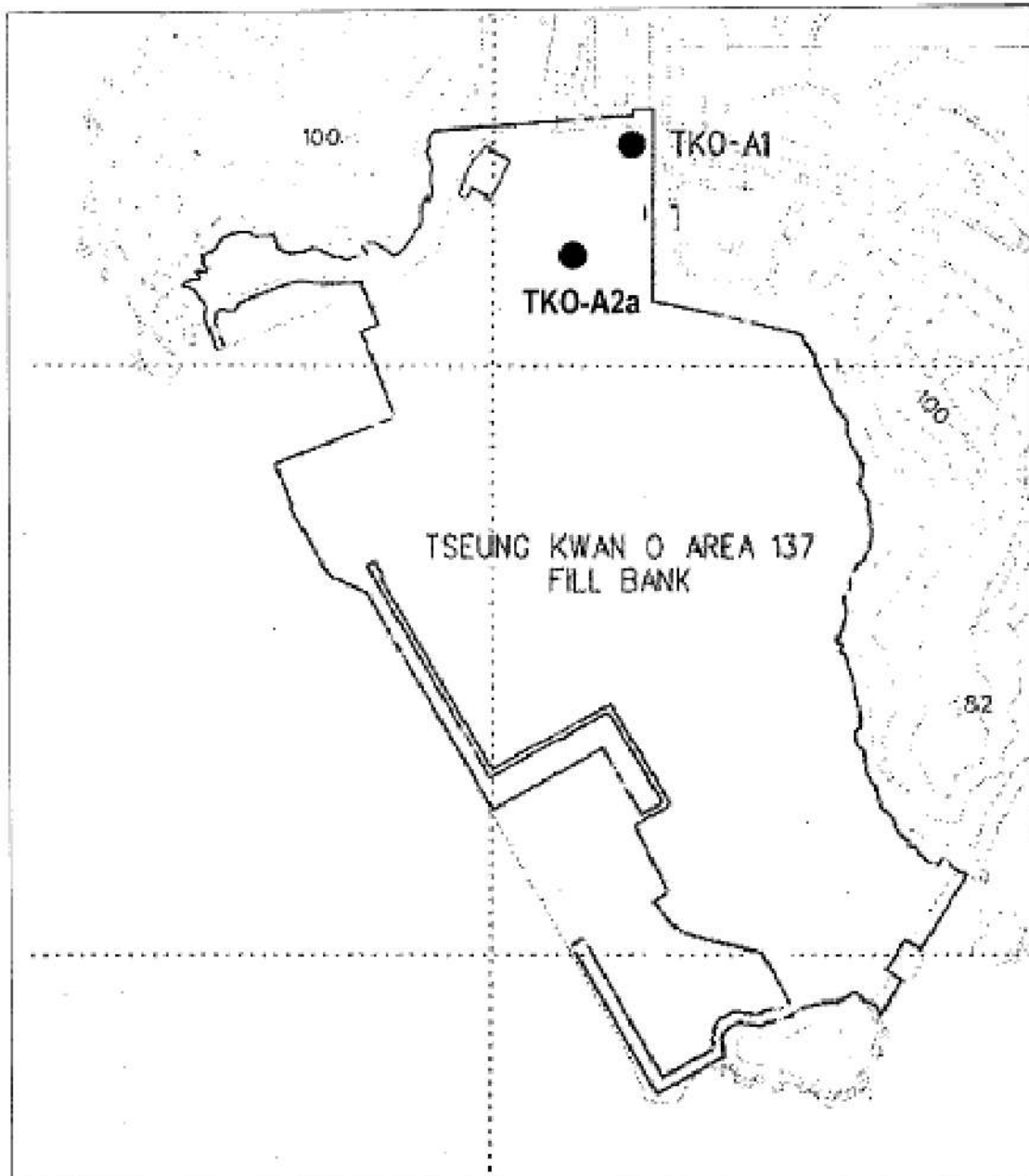
Contract No. CV/2015/07
Handling of Surplus Public Fill (2016-2018)

Figure 1
Locations of Water Quality Monitoring Stations –
Tseung Kwan O Area 137 Fill Bank



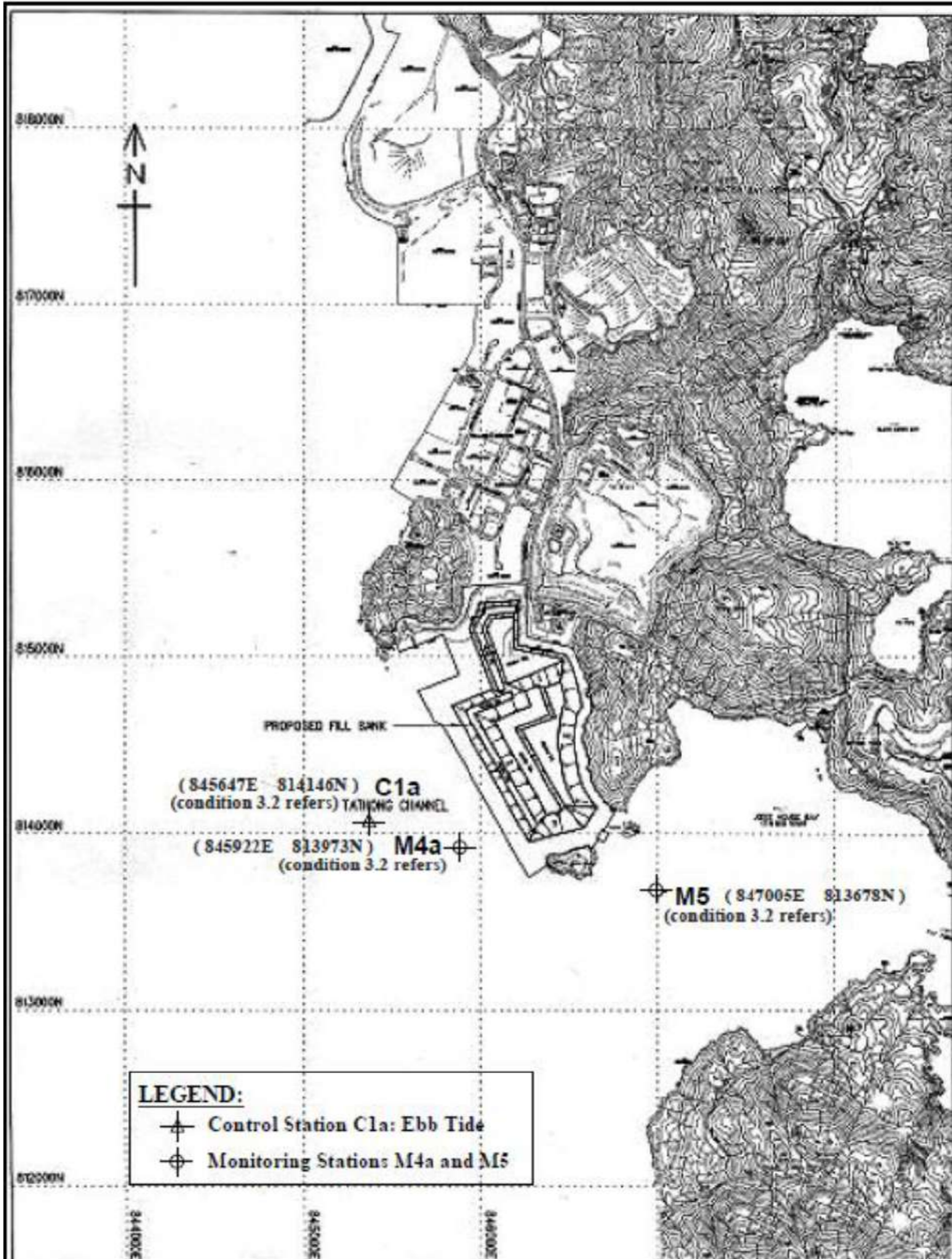
Contract No. CV/2015/07
Handling of Surplus Public Fill (2016-2018)

Figure 2
Location of Noise Monitoring Station –
Tseung Kwan O Area 137 Fill Bank



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

Figure 3
Locations of Air Quality Monitoring Stations –
Tseung Kwan O Area 137 Fill Bank



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

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

