



TEST REPORT



China Harbour Engineering Co Ltd

**Contract No.: CV/2023/10
Handling of Surplus Public Fill
(2024-2027)**

TSEUNG KWAN O AREA 137 FILL BANK

**QUARTERLY EM&A SUMMARY REPORT
NO.02**

(FROM OCTOBER 2024 TO DECEMBER 2024)

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EXECUTIVE SUMMARY

This is Quarterly Environmental Monitoring and Audit (EM&A) Summary Report No.02 prepared by ETS-Testconsult Ltd (ET) for the “Contract No: CV/2023/10 – Handling of Surplus Public Fill (2024-2027) – 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 October 2024 to 31 December 2024.

Site Activities

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

- | | |
|------------------|---|
| October
2024 | <ol style="list-style-type: none">1. Operation of the Public Fill Reception Facilities at Tseung Kwan O Fill Bank (TKOFB);2. Operation of dewatering plant at TKOFB;3. Operation and Maintenance of Artificial Intelligent System for Crushing Number 2, 3 and 4 (Model QJ241) at TKOFB;4. Operation of the Integrated Public Fill Reception (Fixed Rigid Platform) at TKOFB;5. Operation and maintenance of Wheel Washing Bays and Facilities at TKOFB;6. Operation and Maintenance of the Wash House at TKOFB;7. Personnel Position Tracking and Proximity Detection System of Moving Plant at TKOFB;8. Operation and Maintenance a Digital Works Supervision System (DWSS) for TKOFB;9. Maintenance of the Drainage Systems at TKOFB;10. Operation and Maintenance of crushing plants at TKOFB;11. Delivery of Public Fill to Taishan at TKOFB;12. Construction of Gabion Wall at TKOFB;13. Implementation of C Easy system at TKOFB (Phase 1)14. Carry out GCO Probe test and SRT15. Operation of recycling public fill as blanket layer material of reclamation projects16. PMI No. 94 – Post Geotechnical Monitoring at TKOFB17. Construction of concrete access road to fixed rigid platform |
| November
2024 | <ol style="list-style-type: none">1. Operation of the Public Fill Reception Facilities at Tseung Kwan O Fill Bank (TKOFB);2. Operation of dewatering plant at TKOFB;3. Operation and Maintenance of Artificial Intelligent System for Crushing Number 2, 3 and 4 (Model QJ241) at TKOFB;4. Operation of the Integrated Public Fill Reception (Fixed Rigid Platform) at TKOFB;5. Operation and maintenance of Wheel Washing Bays and Facilities at TKOFB;6. Operation and Maintenance of the Wash House at TKOFB;7. Personnel Position Tracking and Proximity Detection System of Moving Plant at TKOFB;8. Operation and Maintenance a Digital Works Supervision System (DWSS) for TKOFB;9. Maintenance of the Drainage Systems at TKOFB;10. Operation and Maintenance of crushing plants at TKOFB;11. Delivery of Public Fill to Taishan at TKOFB;12. Construction of Gabion Wall at TKOFB;13. Implementation of C Easy system at TKOFB (Phase 1)14. Carry out GCO Probe test and SRT15. Operation of recycling public fill as blanket layer material of reclamation projects16. PMI No. 94 – Post Geotechnical Monitoring at TKOFB17. Construction of concrete access road to fixed rigid platform |
| December
2024 | <ol style="list-style-type: none">1. Operation of the Public Fill Reception Facilities at Tseung Kwan O Fill Bank (TKOFB);2. Operation of dewatering plant at TKOFB;3. Operation and Maintenance of Artificial Intelligent System for Crushing Number 2, 3 and 4 (Model QJ241) at TKOFB;4. Operation of the Integrated Public Fill Reception (Fixed Rigid Platform) at TKOFB;5. Operation and maintenance of Wheel Washing Bays and Facilities at TKOFB;6. Operation and Maintenance of the Wash House at TKOFB;7. Personnel Position Tracking and Proximity Detection System of Moving Plant at TKOFB;8. Operation and Maintenance a Digital Works Supervision System (DWSS) for TKOFB;9. Maintenance of the Drainage Systems at TKOFB;10. Operation and Maintenance of crushing plants at TKOFB;11. Delivery of Public Fill to Taishan at TKOFB;12. Implementation of C Easy system at TKOFB (Phase 1)13. Carry out GCO Probe test and SRT14. Operation of recycling public fill as blanket layer material of reclamation projects15. PMI No. 94 – Post Geotechnical Monitoring at TKOFB |

16. Ground Investigation Works at TKOFB – Batch 2
17. Chain Link Fence Erection at TKOFB Pier

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

One complaint was received on 02 October 2024 regarding the dust nuisance.

No 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/2023/10 –Handling of Surplus Public Fill (2024-2027) – Tseung Kwan O (TKO) Area 137 Fill Bank” (The Project”).

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

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

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

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

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

This quarterly report documented the findings of EM&A Works conducted during the operation phase of Fill Bank at Tseung Kwan O Area 137 from October 2024 to December 2024.

2.0 PROJECT INFORMATION

2.1 Scope of the Project

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

- *Site clearance;*
- *Construction of a temporary storm water system;*
- *Stockpiling of 6 million m³ of public fill;*
- *Setting up two barging points: one at the 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 (Umwelt)	Mr. Ivan Ting	IEC	3756 9590	3582 3310
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 to 5 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	October 2024	November 2024	December 2024
24-hr TSP	No of monitoring events	5	5	6
	Action Level	0	0	0
	Limit Level	0	0	0
1-hr TSP	No of monitoring events	15	16	15
	Action Level	0	0	0
	Limit Level	0	0	0

Table 4.2 and 4.3 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 TSP Impact monitoring Results

Period	1-hr TSP ($\mu\text{g}/\text{m}^3$)			
	TKO-A1	TKO-A2a	TKO-A3	TKO-A4
Baseline (29/08 – 13/09)	195			
October 2024	257	260	138	132
November 2024	248	251	112	105
December 2024	261	264	122	116

Table 4.3 Comparison of Baseline and Various Period of Averaged 24-hr TSP Impact monitoring Results

Period	24-hr TSP ($\mu\text{g}/\text{m}^3$)			
	TKO-A1	TKO-A2a	TKO-A3	TKO-A4
Baseline (29/08 – 13/09)	123			
October 2024	157	160	58	52
November 2024	145	147	50	46
December 2024	154	156	47	41

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 4.4 presents the limit level and average impact noise monitoring results during the reporting quarter.

Table 4.4 Summary of Impact Monitoring results of Noise Daytime Monitoring

Monitoring Location	Limit Level	October 2024	November 2024	December 2024
		Leq, dB(A)		
TKO-N1	75	62.7	63.4	62.4

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 4.5 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 4.5 Total Number of Marine Water Quality Exceedances in the Quarter

Parameter	Exceedance Level	October 2024	November 2024	December 2024
Number of monitoring days		13	13	12
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 4.6 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 4.6 Total Number of Marine Water Quality Exceedances (3RS project) in the Quarter

Parameter	Exceedance Level	October 2024	November 2024	December 2024
Number of monitoring days		13	13	12
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 4.7.

Table 4.7 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 4.8.

Table 4.8 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/Q	31/10/23	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	5213-839-C3750-05	19/04/17	---	Spent battery cell containing heavy metals and spent lubricating oil

Effluent Discharge License	WT00041169-2022	06/06/22	30/06/26	Effluent, Surface Run-off, and all other wastewater discharges from screen and sedimentation tank
Marine Dumping Permit	EP/MD/25-040	02/12/24	31/12/24	Approval for dumping 499,999 tons (approximately equal to 277,777 cu.m. bulked quantity) of Public Fill (Reclamation Materials) from Tseung Kwan O Area 137 Fill Bank and Tuen Mun Area 38 Fill Bank to designated dumping area at Guanghaiwan of Taishan
Billing Account for Waste Disposal	7051970	22/05/17	End of Contract	---
Notification Pursuant to Section 3(1) of the Air Pollution Control (Construction Dust)	10007977	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	October 2024	November 2024	December 2024
Public Fill ('000m ³)	0	0	0
C&D Waste (general refuse) ('000kg)	94.88	67.67	69.24
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

One complaint was received on 02 October 2024 in this reporting period, from public against ” 投訴蔣軍澳 137 泥尾泥塵大,要求加強水車灑水” . The Contractor has implemented control measures to reduce dust emission to the environment and no defective observation related to dust emission was recorded during the site investigation on 02 October 2024. No exceedance was found on recent air quality monitoring results. Therefore, there is no direct evidence showing that the complaint is likely related to the TKO137 fill bank project.

No 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>October 2024</i>	<i>1</i>	<i>0</i>	<i>0</i>
<i>November 2024</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>December 2024</i>	<i>0</i>	<i>0</i>	<i>0</i>
<i>Cumulative</i>	<i>19</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

One complaint was received on 02 October 2024. No prosecutions and notifications of summons were 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

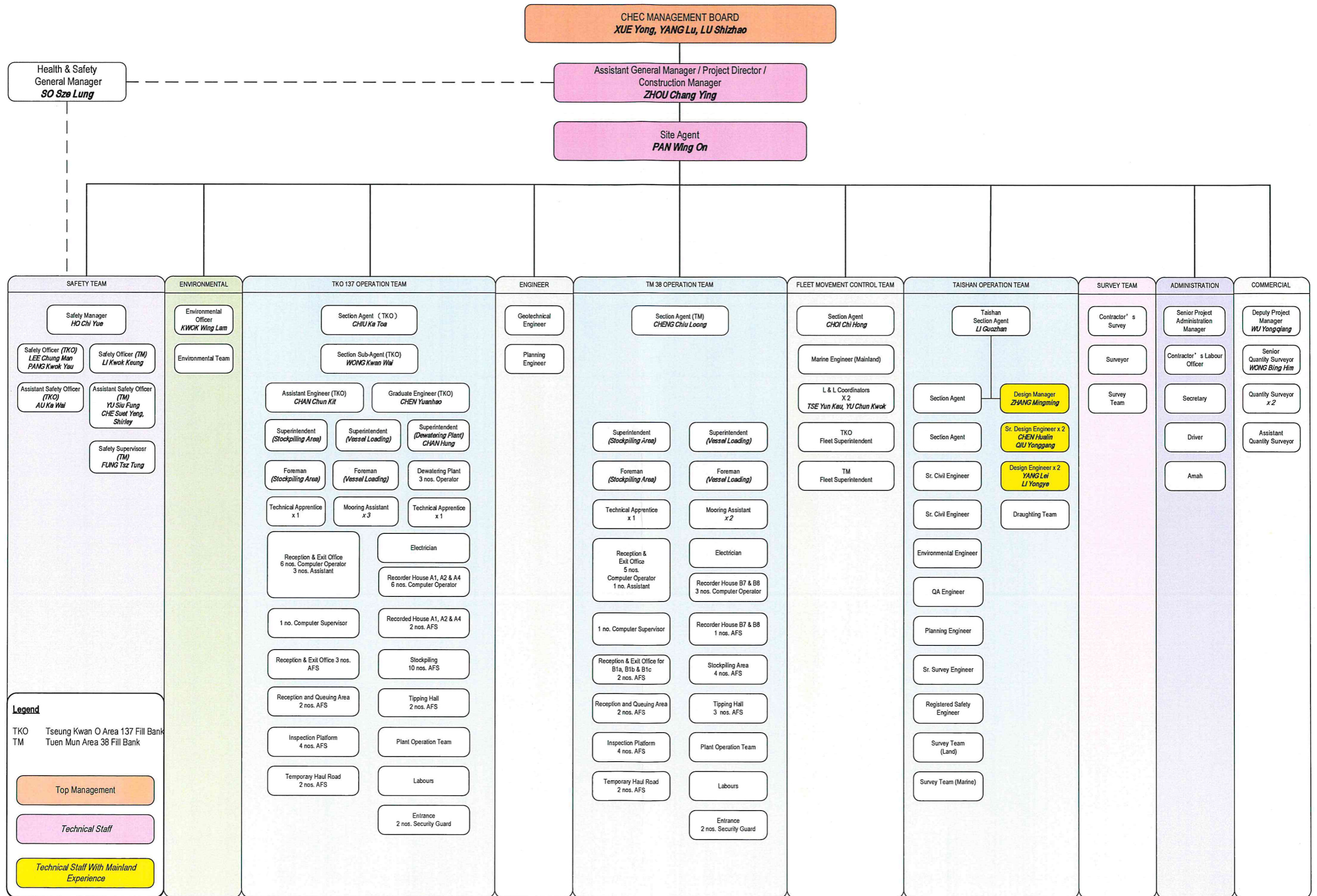
- Provide hydroseeding on the exposed slopes, on which the final profile has been formed;
- Erect all the site hoarding/chaining fences in accordance with agreed design at proper location;
- Maintain the hydroseeding slopes in accordance with the Landscape Plan.

- END OF REPORT -

Appendix

A

Organization Chart



Organization Chart
Rev. 5
(20241114)

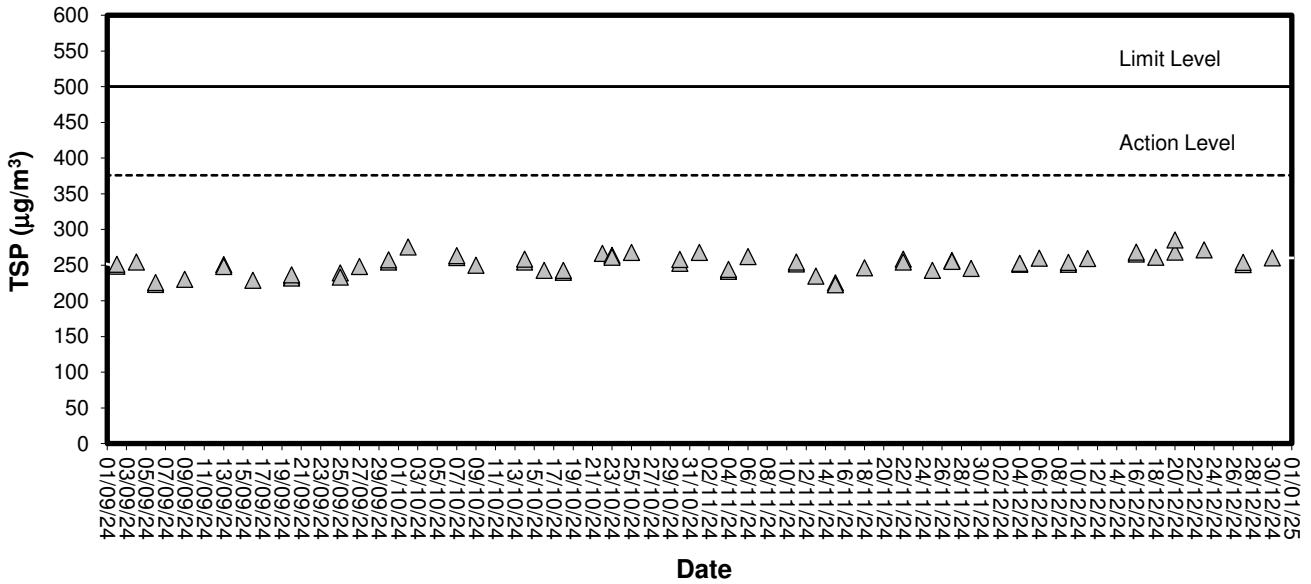
Appendix

B

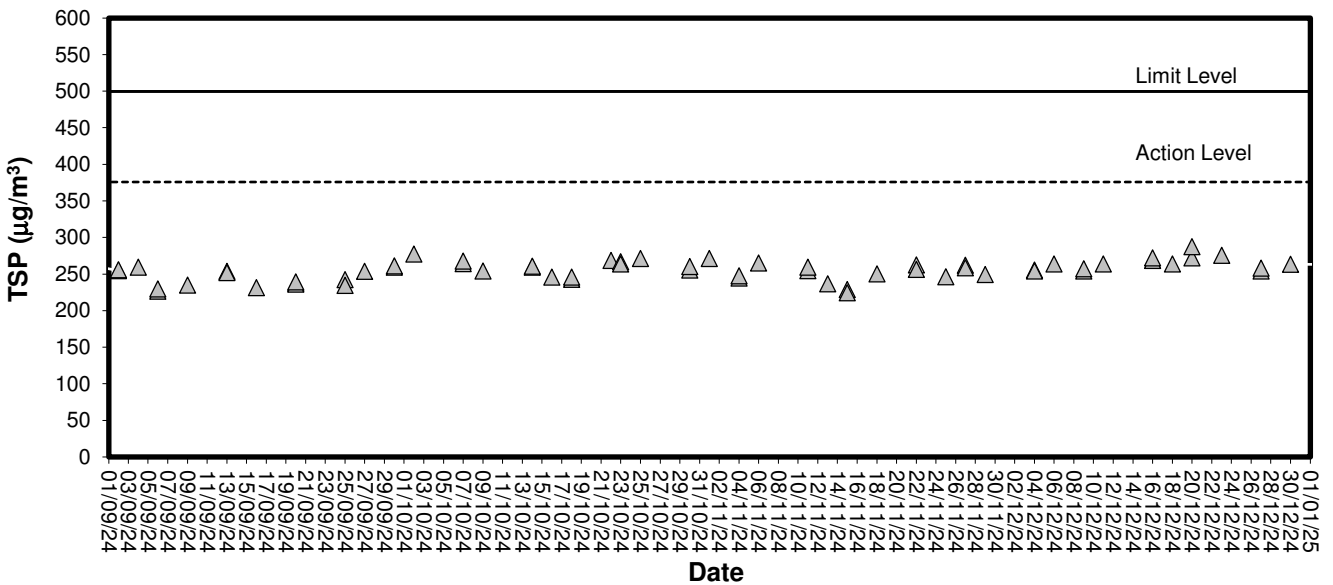
Graphical Plots of Air Quality Monitoring Data



1-hour TSP level at TKO-A1

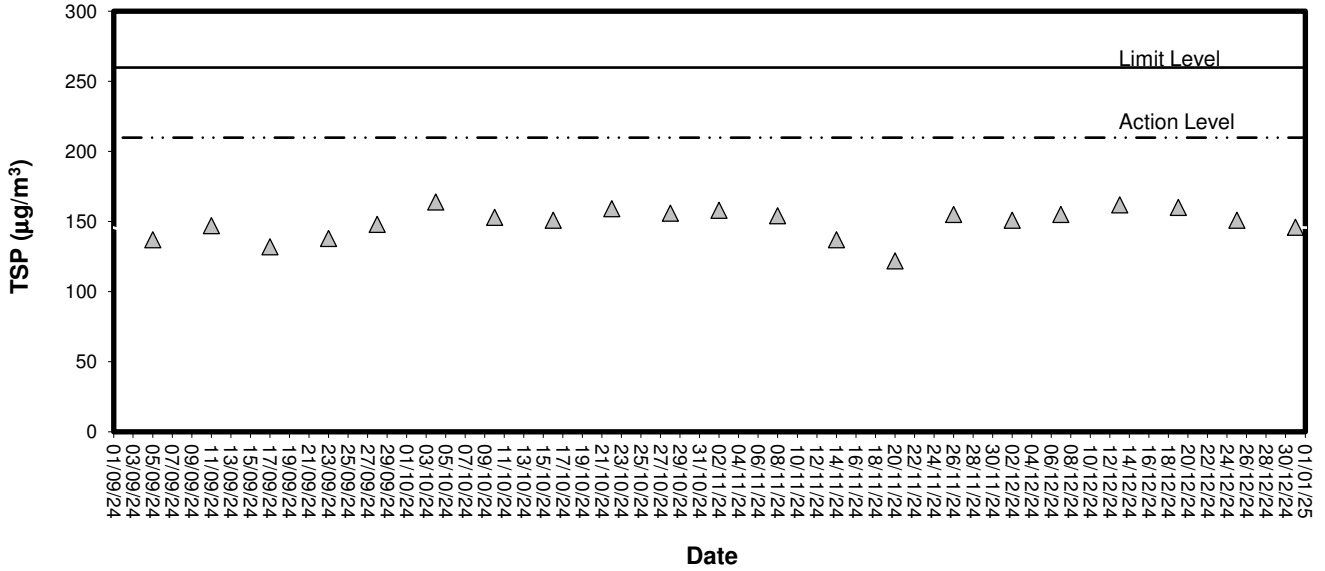


1-hour TSP level at TKO-A2a

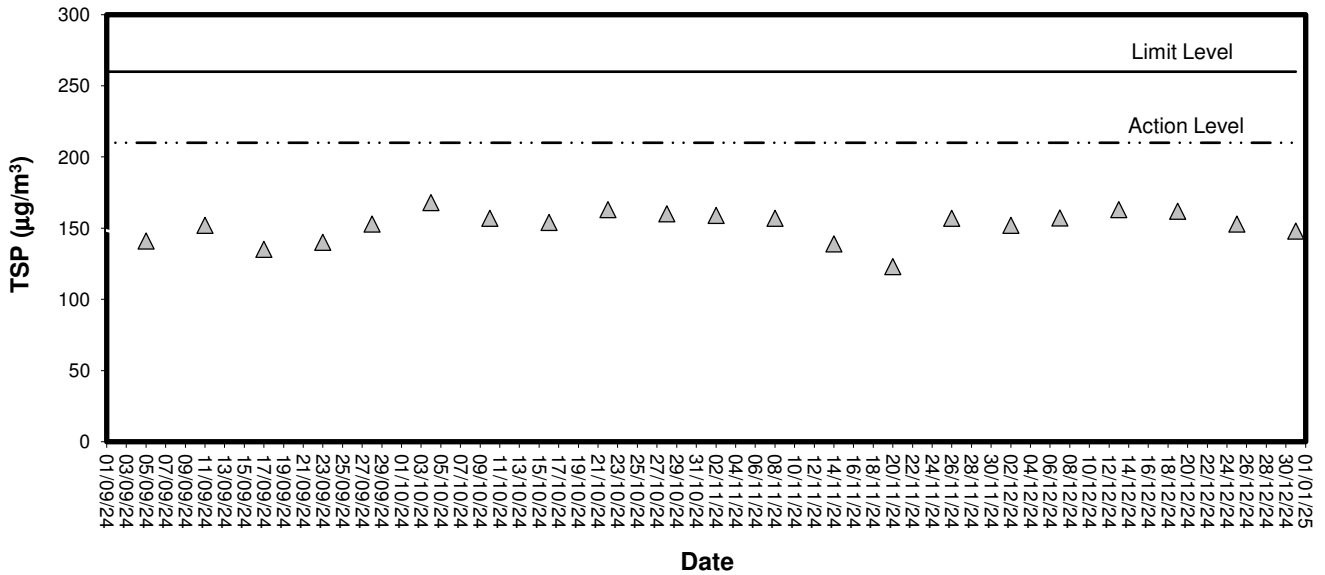




24-hour TSP level at TKO-A1

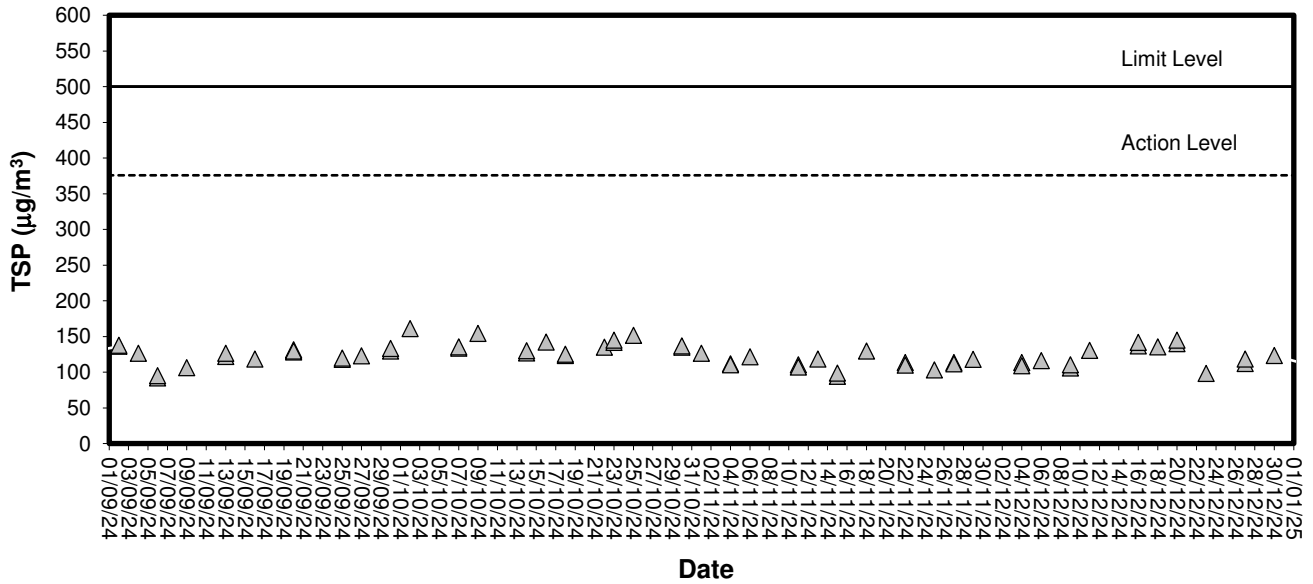


24-hour TSP level at TKO-A2a

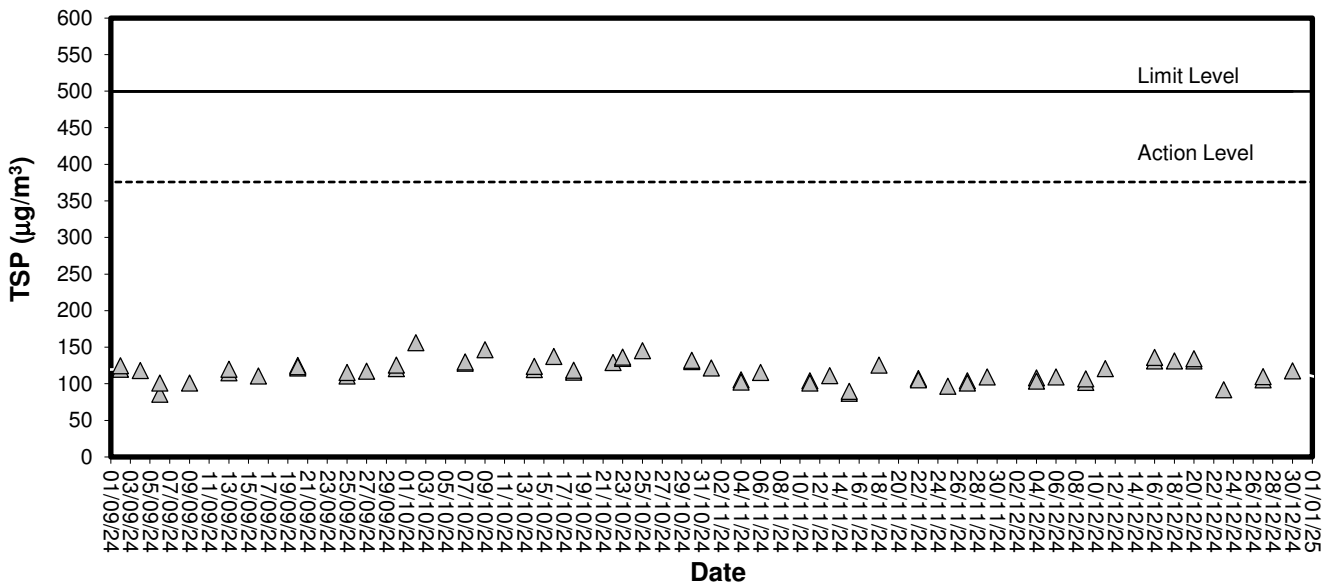




1-hour TSP level at TKO-A3

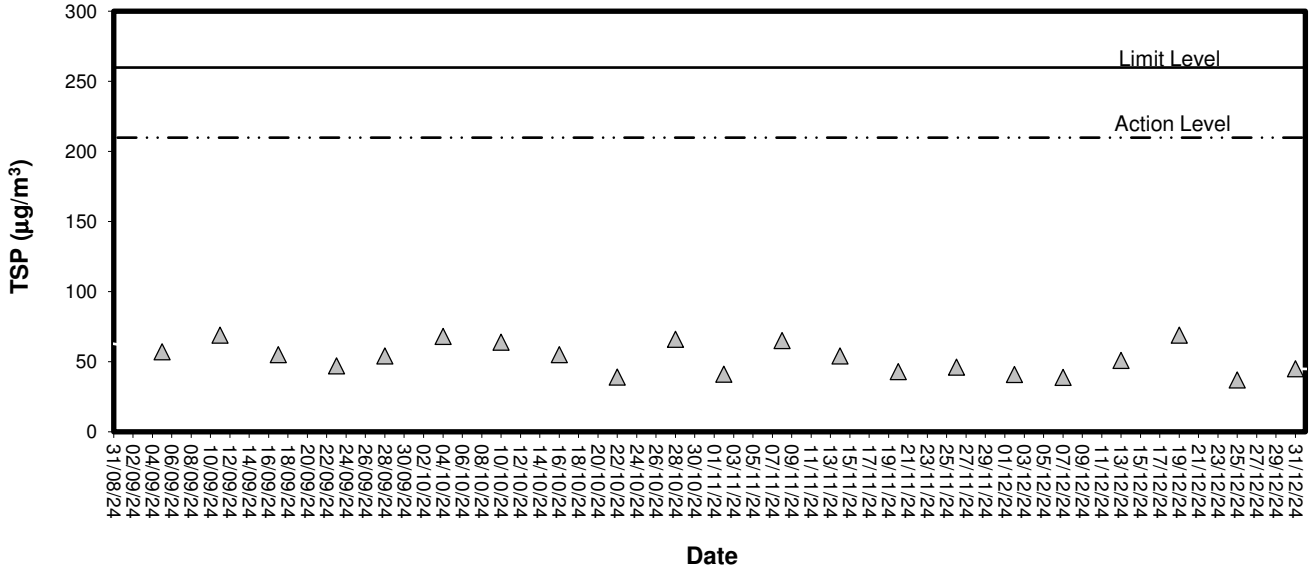


1-hour TSP level at TKO-A4

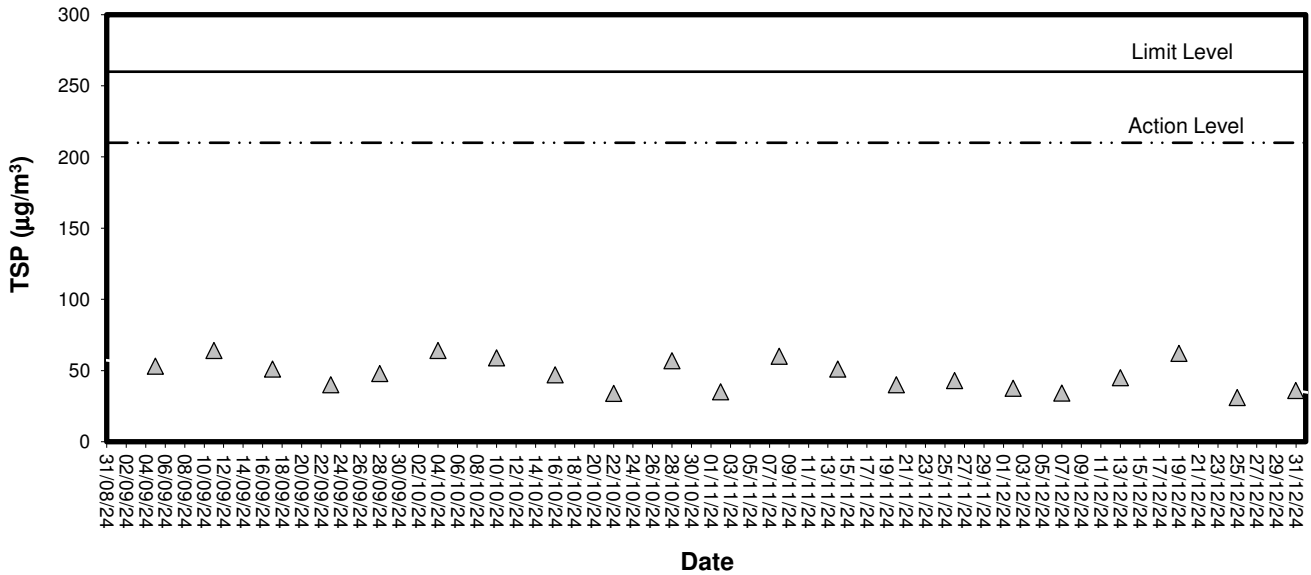




24-hour TSP level at TKO-A3



24-hour TSP level at TKO-A4

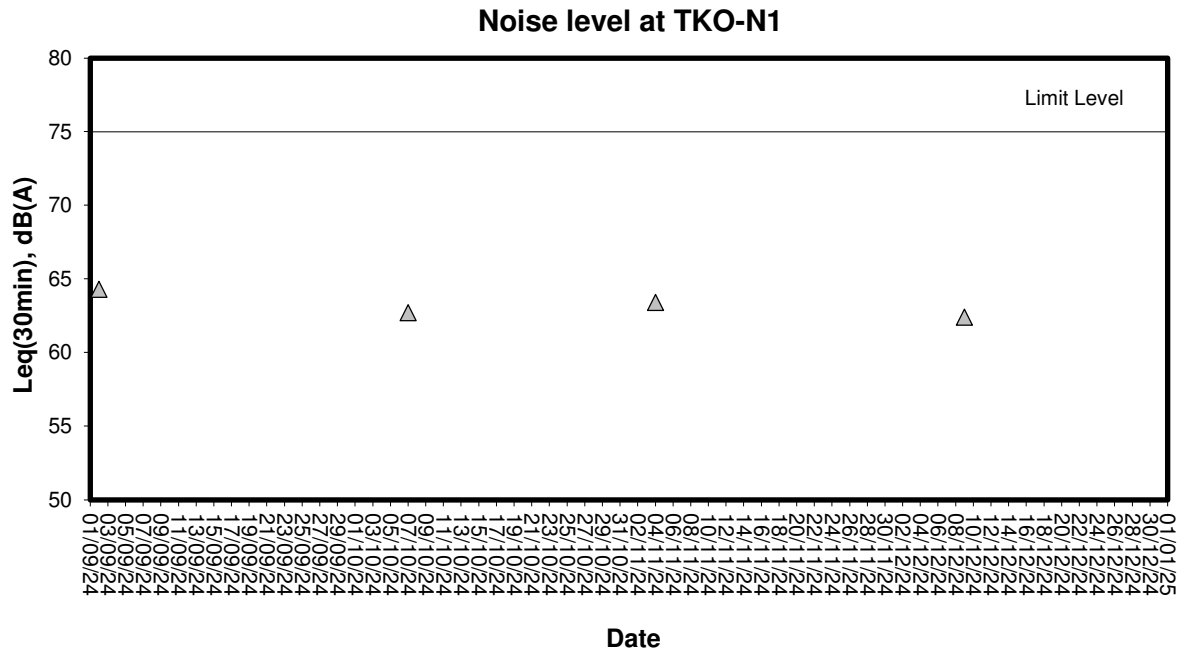


Appendix

C

Graphical Plots of Noise Monitoring Data

Noise Monitoring (Day-time)

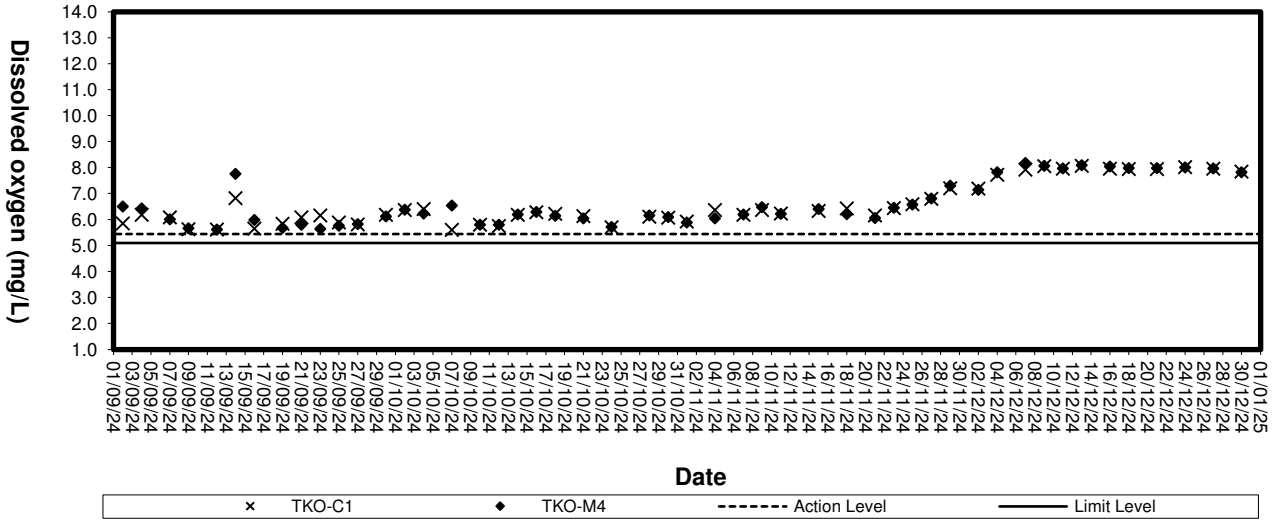


Appendix

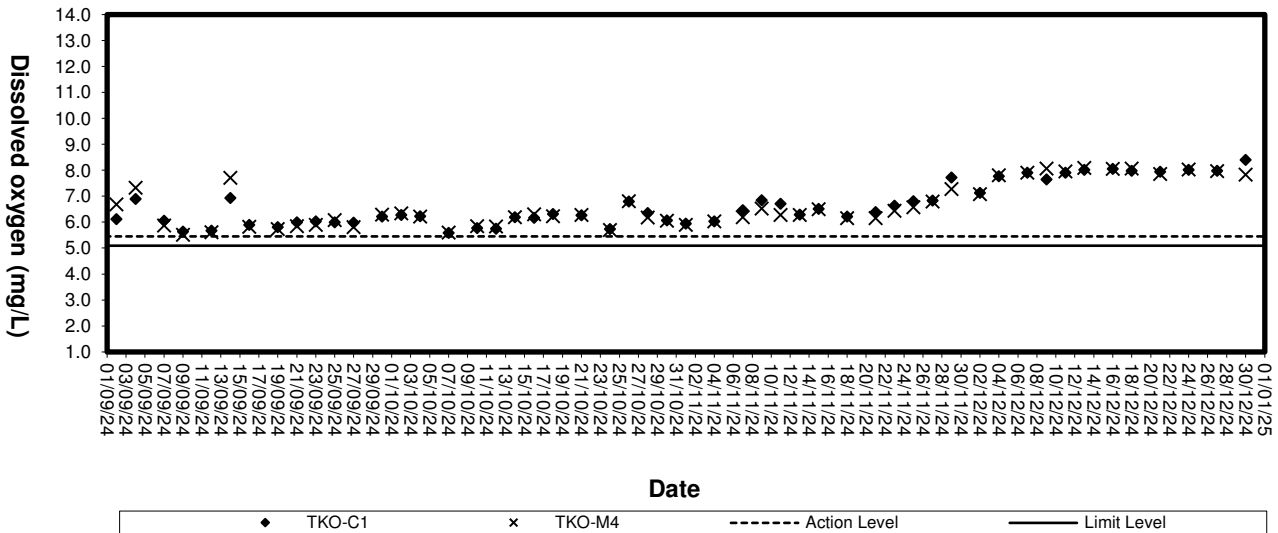
D1

Graphical Plots of Impact Marine Water Quality Monitoring Data

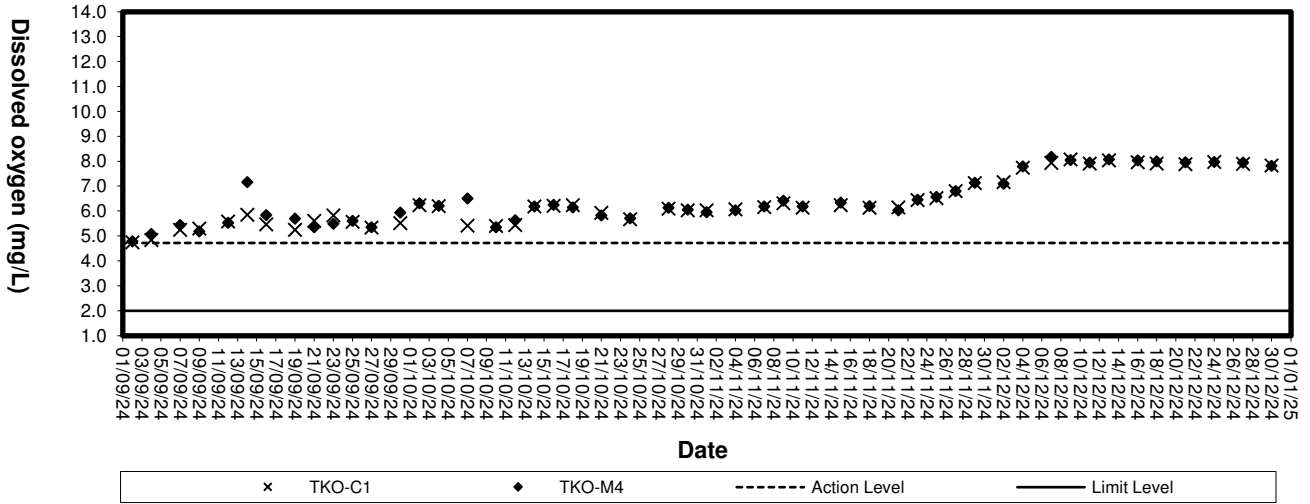
Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide



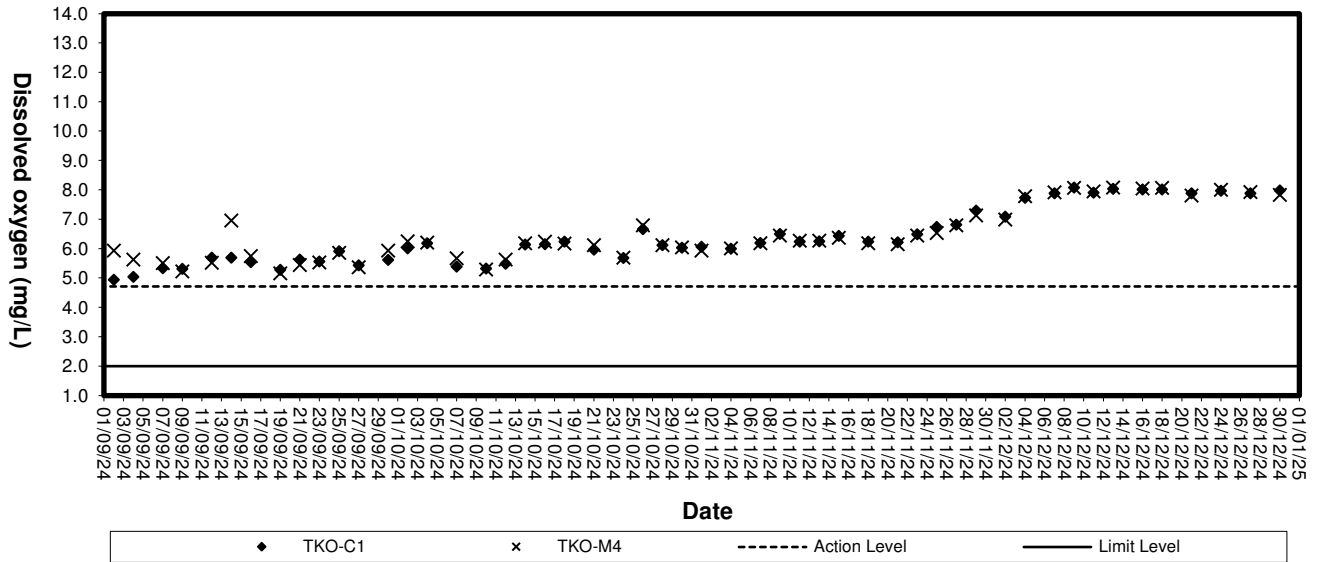
Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide



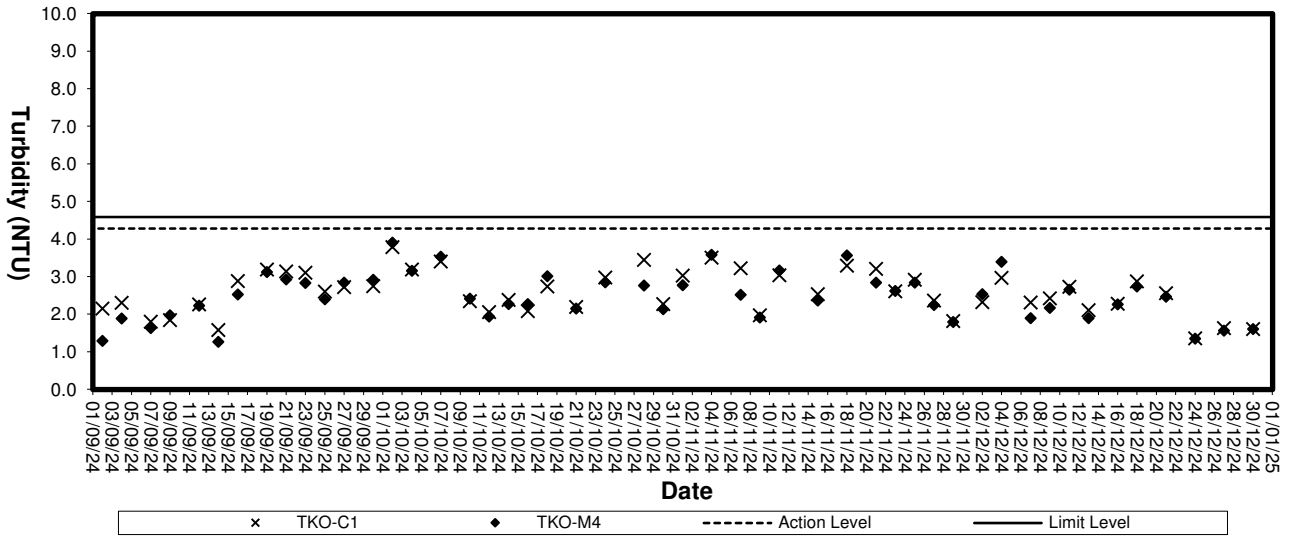
Dissolved Oxygen (Bottom) at Mid-Flood Tide



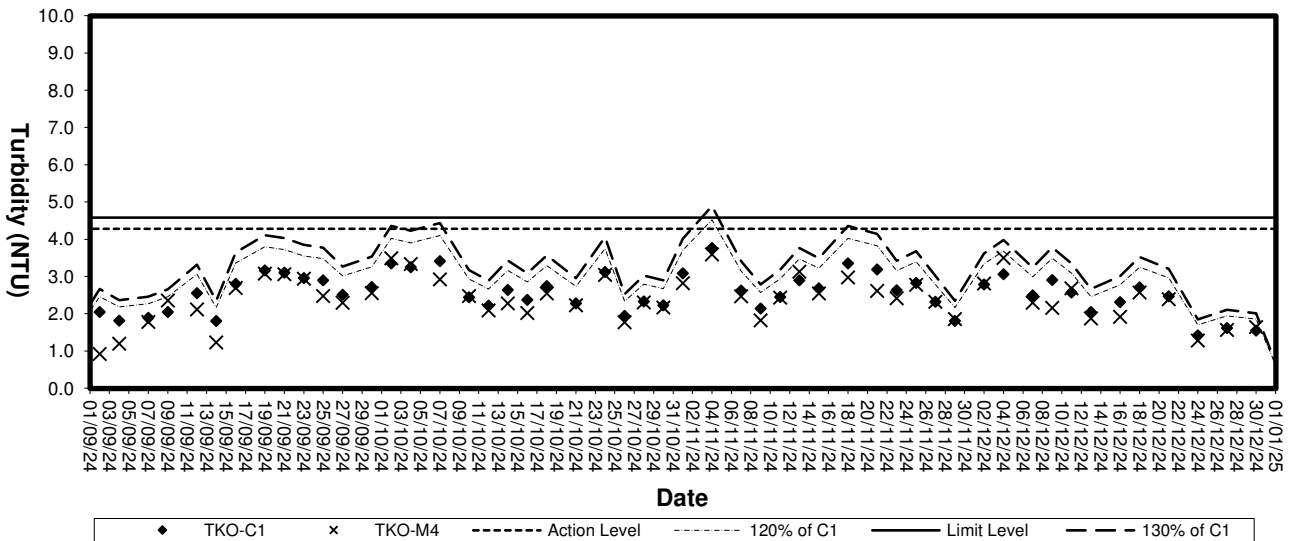
Dissolved Oxygen (Bottom) at Mid-Ebb Tide



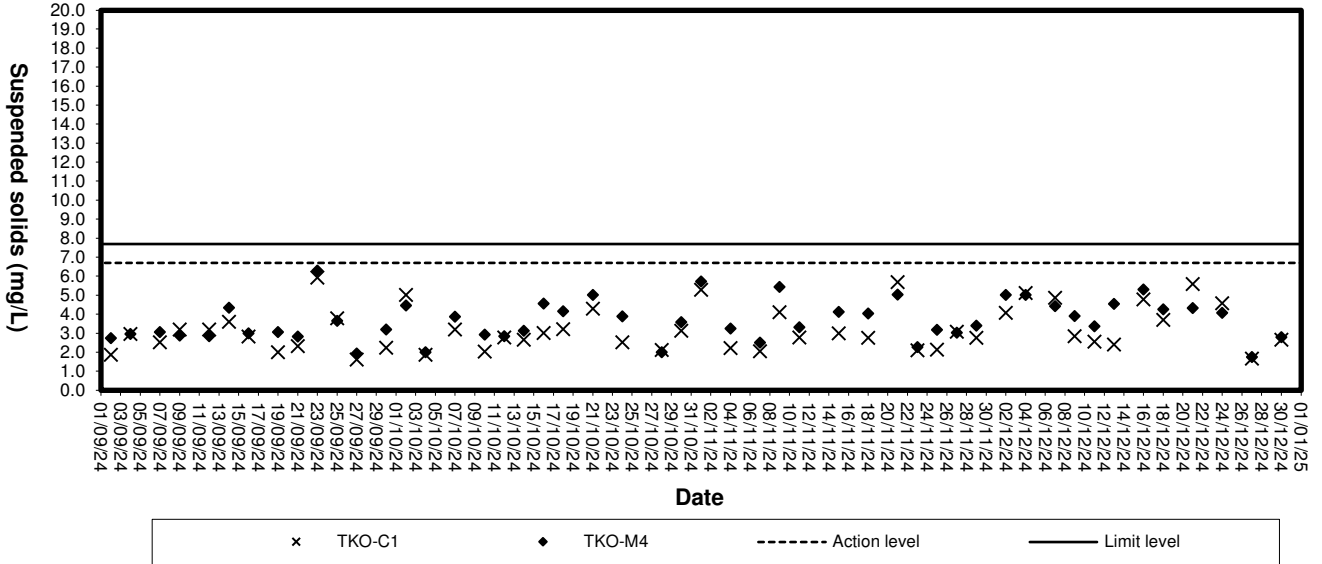
Turbidity (Depth-average) at Mid-Flood Tide



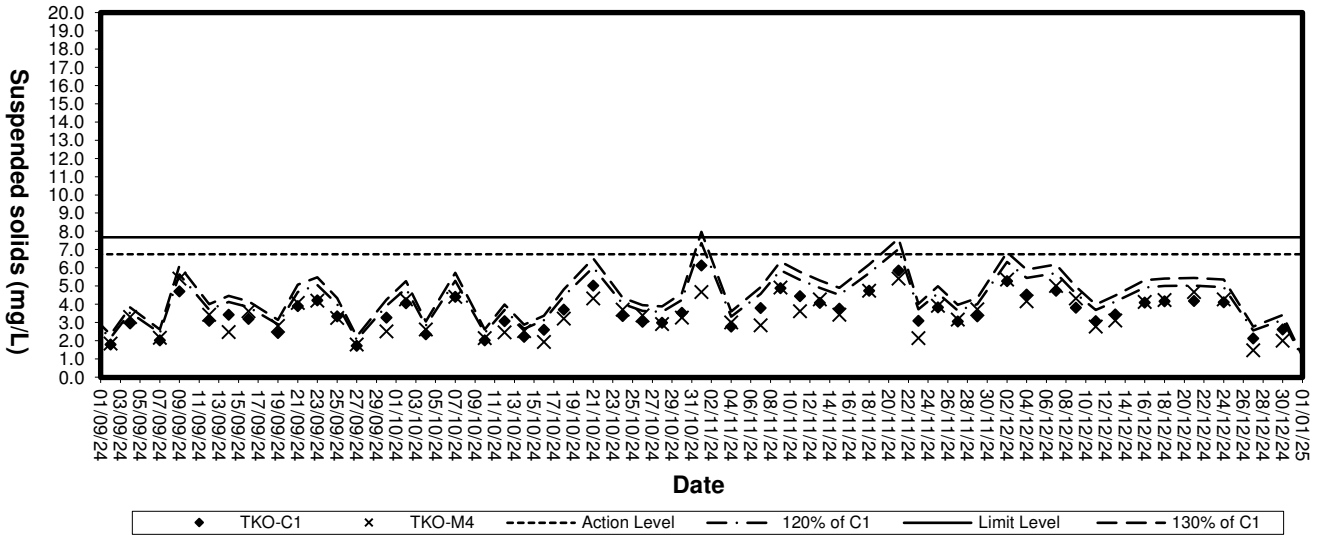
Turbidity (Depth-average) at Mid-Ebb Tide



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



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

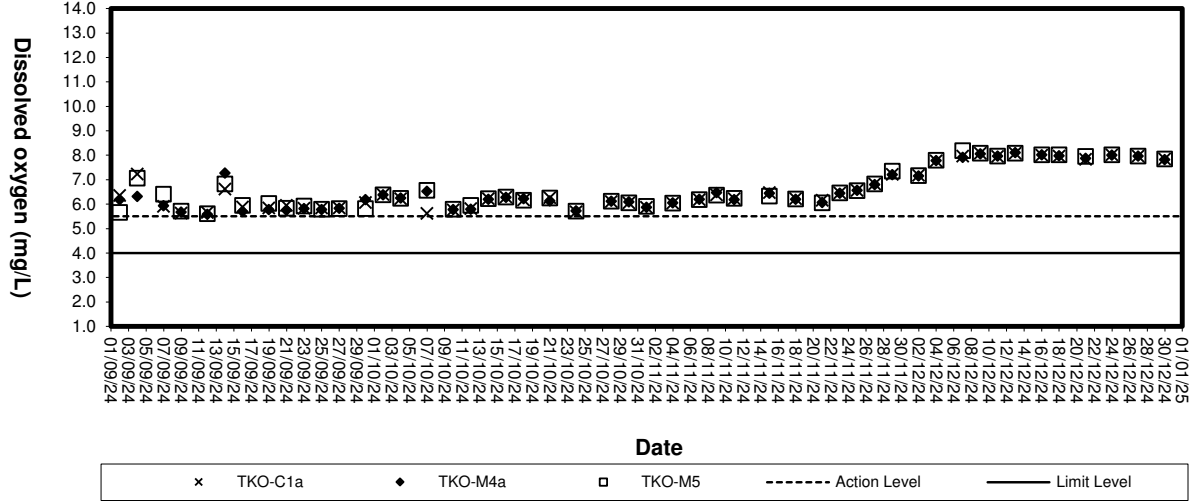


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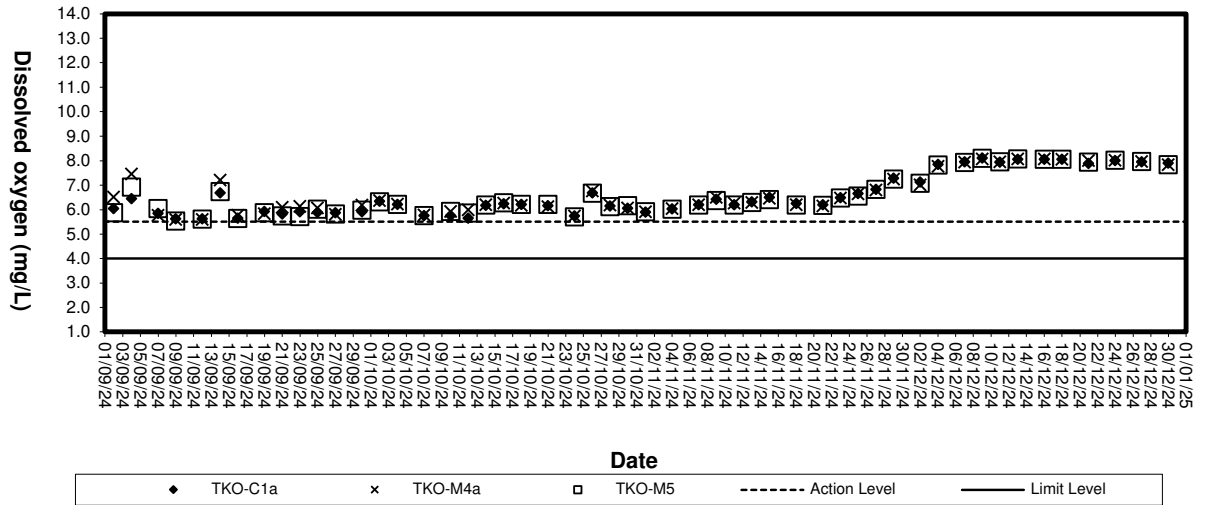
D2

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

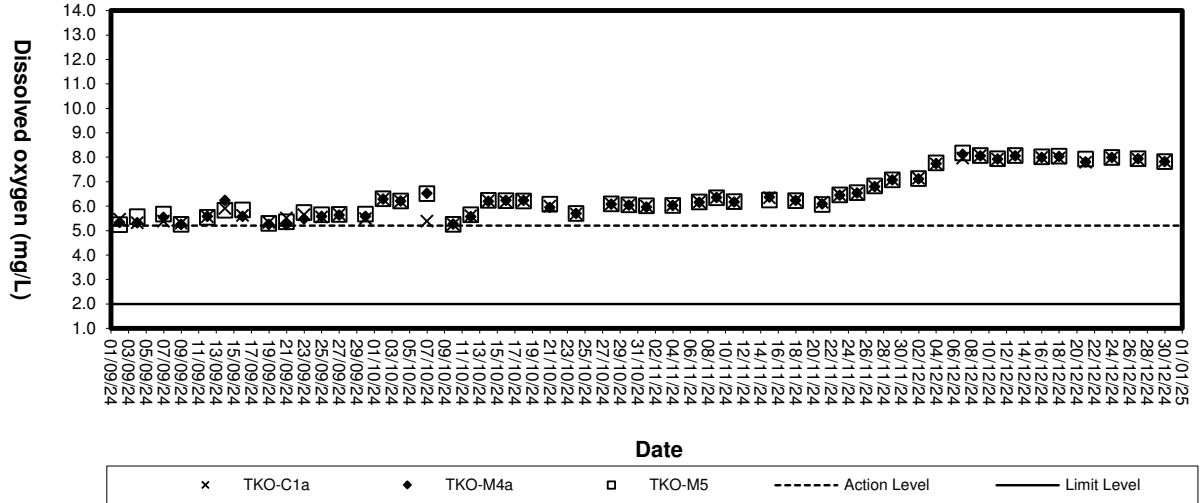
Dissolved Oxygen (Surface & Middle) at Mid-Flood Tide (3RS project)



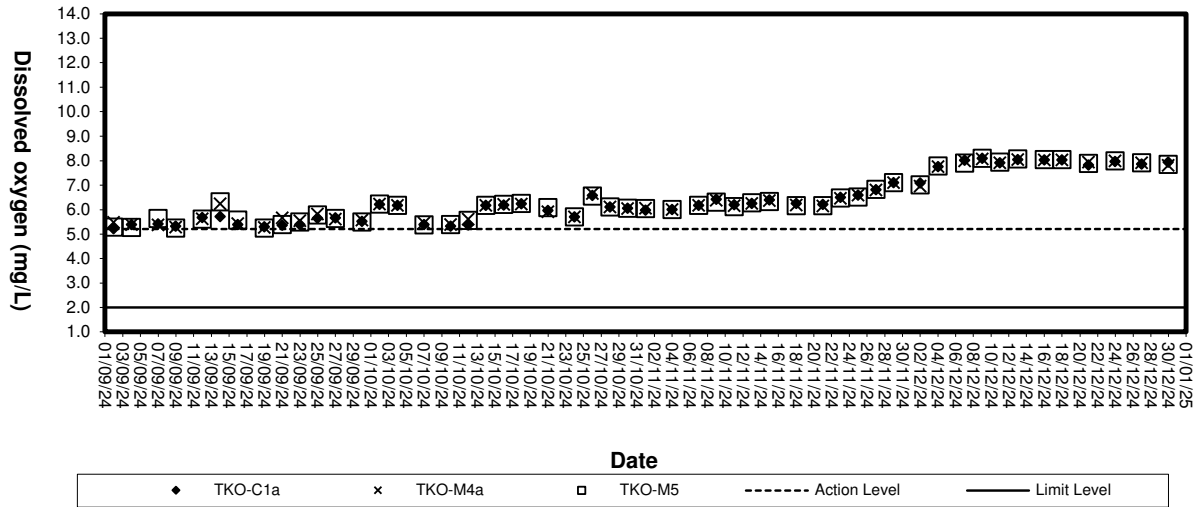
Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide (3RS project)



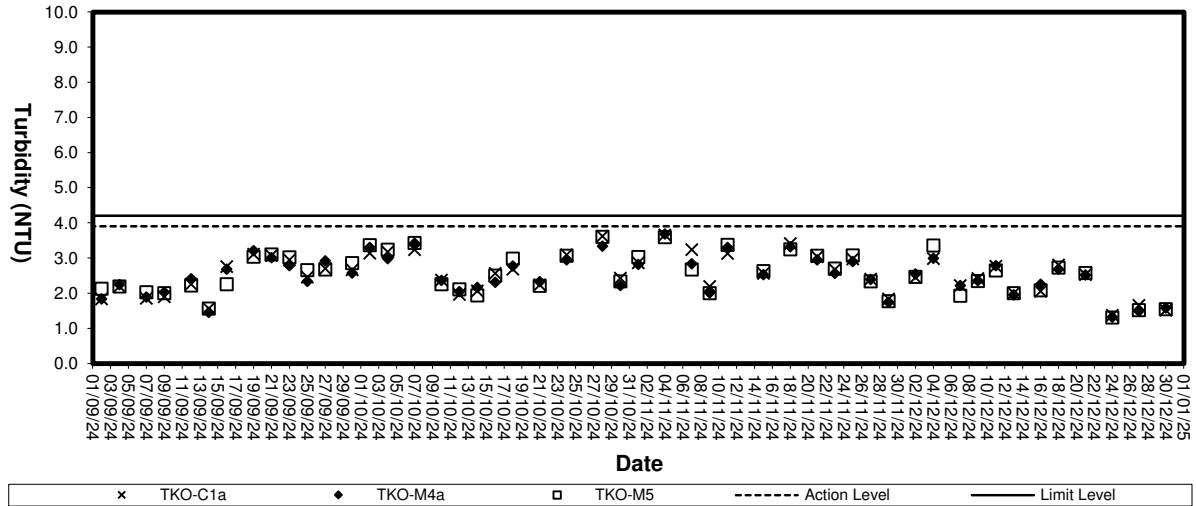
Dissolved Oxygen (Bottom) at Mid-Flood Tide (3RS project)



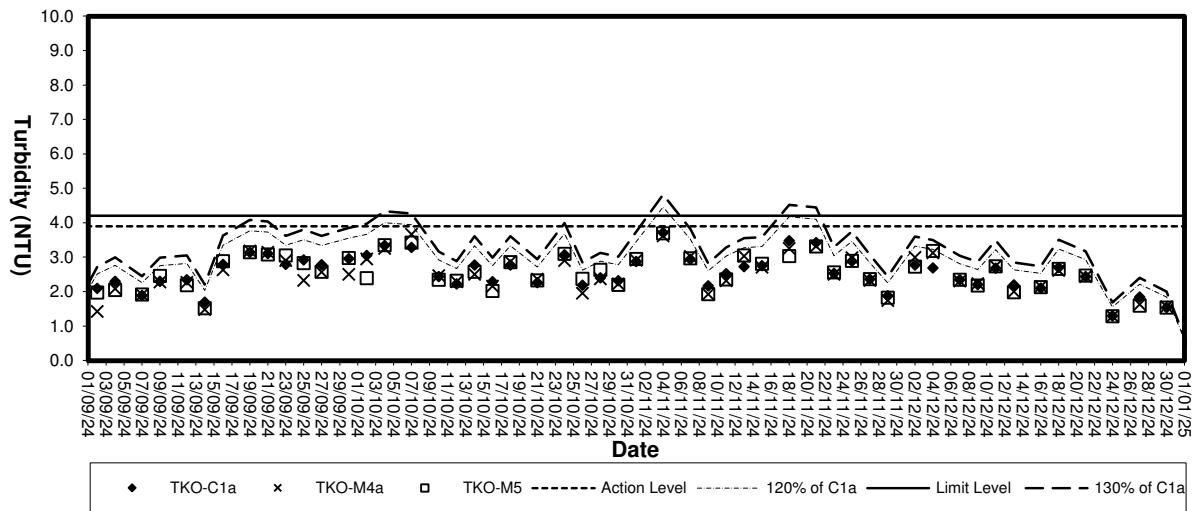
Dissolved Oxygen (Bottom) at Mid-Ebb Tide (3RS project)



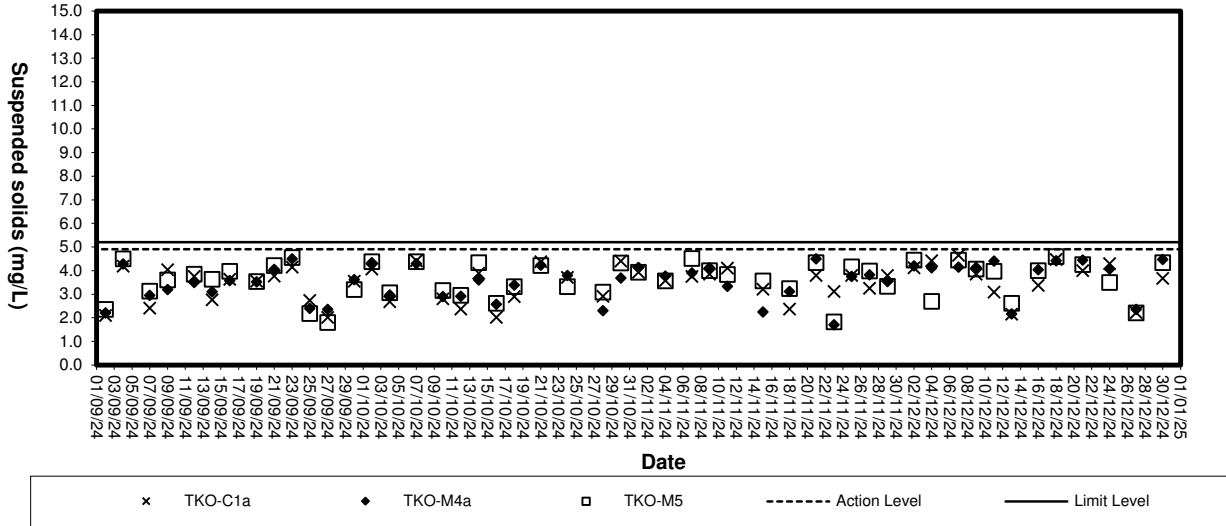
Turbidity (Depth-average) at Mid-Flood Tide (3RS project)



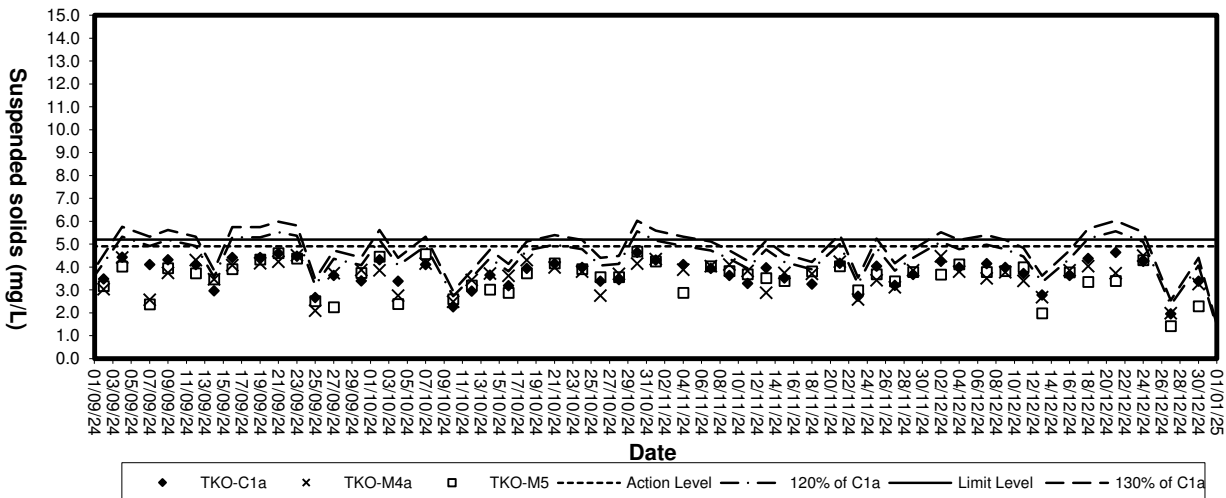
Turbidity (Depth-average) at Mid-Ebb Tide (3RS project)



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
A2a		
A3		
A4		

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
A2a		
A3		
A4		

Action and Limit Levels for Noise

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

Action and Limit Levels for Water Quality

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

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

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

Appendix

F

Event-Action Plans

EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE

ET Leader	ACTION	Contractor
IC(E)	ER	

EVENT	ACTION LEVEL	LIMIT LEVEL	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"> Check monitoring data submitted by the ET Check contractor's working method 	<ol style="list-style-type: none"> Notify Contractor
<ol style="list-style-type: none"> Exceedance for two or more consecutive samples 	<ol style="list-style-type: none"> 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"> Check monitoring data submitted by the ET 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"> Confirm receipt of notification of failure in writing Notify the Contractor Ensure remedial measures properly implemented
<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"> Check monitoring data submitted by the ET Check Leader Check Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise the ER on the effectiveness of the proposed remedial measures Supervise implementation of remedial measures 	<ol style="list-style-type: none"> Confirm receipt of notification of failure in writing Notify the Contractor Ensure remedial measures properly implemented

1. Rectify any unacceptable practise
Amend working methods if appropriate

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

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			IEC
	ET Leader	Contractor	ER	
<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; 3. Check all plant and equipment; 4. Consider changes of working methods; 8. 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	Start	Finish	Duration	Predecessors	time risk allowances	Qtr 3, 2024		
							Aug	Sep	Oct
1	Contract duration of Contract CV/2023/10	Sun 4/8/24	Sat 31/7/27	1092 days					
2	Contract date, Date of Letter of Acceptance	Thu 11/7/24	Thu 11/7/24	1 day					
3	Starting Date of the Works	Sun 4/8/24	Sun 4/8/24	1 day					
4	Starting Date of Section 1 of the Works	Sun 4/8/24	Sun 4/8/24	1 day					
5	Starting Date of Section 2 of the Works	Sun 4/8/24	Sun 4/8/24	1 day					
6	Starting Date of Section 3 of the Works	Sun 4/8/24	Sun 4/8/24	1 day					
7	Date for Completion of the Works	Sat 31/7/27	Sat 31/7/27	1 day					
8	Completion Date of Section 1 of the Works	Sat 31/7/27	Sat 31/7/27	1 day	4SF+1092 da				
9	Completion Date of Section 2 of the Works	Sat 31/7/27	Sat 31/7/27	1 day	5SF+1092 da				
10	Completion Date of Section 3 of the Works	Sat 31/7/27	Sat 31/7/27	1 day	6SF+1092 da				
11	Planned completion dates	Sat 31/7/27	Sat 31/7/27	1 day					
12	Planned completion date of Section 1	Sat 31/7/27	Sat 31/7/27	1 day					
13	Planned completion date of Section 2	Sat 31/7/27	Sat 31/7/27	1 day					
14	Planned completion date of Section 3	Sat 31/7/27	Sat 31/7/27	1 day					
15	Access Date of the Site	Sun 4/8/24	Sun 4/8/24	1 day					
16	Portion A2, A3a, A3b, A3c, A4a1, A4a2, A4b1, A4b2, A5a, A5b, A5c, A7a, A7b, A7c and A10 (within 60 days after starting date or later date notified by the Project Manager with 2 days advance notice)	Sun 4/8/24	Sun 4/8/24	1 day					
17	Portion B1, B3, B6a, B6b, B7 and C (within 60 days after starting date or later date notified by the Project Manager with 2 days advance notice)	Sun 4/8/24	Sun 4/8/24	1 day					
18	Portion A1, A9, A9a and B6c (7 day's advance notice after starting date)	Sun 4/8/24	Sun 4/8/24	1 day					
19	Hand back of the Site	Sat 31/7/27	Sat 31/7/27	1 day					
20	Portion A2, A3a, A3b, A3c, A4a1, A4a2, A4b1, A4b2, A5a, A5b, A5c, A7a, A7b, A7c and A10 of the site on the completion date of the section 1 of the works (or at an earlier date notified by the Project Manager with 30 days' advance notice)	Sat 31/7/27	Sat 31/7/27	1 day					
21	Portion A1, A9 and A9a of the site if the Contractor has accessed to them ,on the completion date of the section 1 of the works (or at an earlier date as notified by the Project Manager with 30 days' advance notice)	Sat 31/7/27	Sat 31/7/27	1 day					
22	Portion B1, B3, B6a, B6b, B7 and C of the site on the completion date of the section 2 of the works (or at an earlier date as notified by the Project Manager with 30 days' advance notice)	Sat 31/7/27	Sat 31/7/27	1 day					
23	Portion B6c of the site if the Contractor has accessed to them ,on the completion date of the section 2 of the works (or at an earlier date as notified by the Project Manager with 30 days' advance notice)	Sat 31/7/27	Sat 31/7/27	1 day					
24	Portions C of the Site on the completion date of the section 2 of the works (or at an earlier date as notified by the Project Manager with 30 days' advance notice)	Sat 31/7/27	Sat 31/7/27	1 day					
25	Section 1 of the Works - Tseung Kwan O Area 137 Fill Bank	Sun 4/8/24	Sat 31/7/27	1092 days	4SS				
26	Taking over the existing facilities at the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site	Sun 4/8/24	Sun 4/8/24	1 day	4SS	0			
27	Operation of the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site	Sun 4/8/24	Sat 31/7/27	1092 days	26SS	0			
28	Operation and maintenance of the surveillance system within Portion A of the Site	Sun 4/8/24	Sat 31/7/27	1092 days	26SS	0			
29	Operation and maintenance of the existing tipping halls at the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site	Sun 4/8/24	Sat 31/7/27	1092 days	26SS	0			
30	Provision, operation and maintenance of the Crushing Plant at the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site	Sun 4/8/24	Sat 31/7/27	1092 days	26SS	0			
31	Operation and maintenance of the dewatering plant at the Tseung Kwan O Area 137 Fill Bank within portion A of the Site Facility to the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site.	Sun 4/8/24	Sat 31/7/27	1092 days	26SS	0			
32	Design, construction, operation and maintenance of 3 nos. new tipping halls with access ramp, new barge handling area, and associated seawalls within Portion A of the Site as and when instructed by the Project Manager.	Sun 4/8/24	Sat 31/7/27	1092 days	26SS				
33	Submission of design proposals to Project Manager for acceptance	Sun 4/8/24	Sun 11/12/24	120 days		0			

Project: 3 months rolling programme (Aug 2024 to Oct 2024) Date: 16/8/2024 Revision: Rev_01	Task		Project Summary		Inactive Summary		Manual Summary		External Milestone	
	Split		External Tasks		Manual Task		Start-only		Progress	
	Milestone		External Milestone		Duration-only		Finish-only		Deadline	
	Summary		Inactive Milestone		Manual Summary Rollup		External Tasks			

ID	Task Name	Start	Finish	Duration	Predecessors	time risk allowances	Qtr 3, 2024		
							Aug	Sep	Oct
34	Construction new tipping halls with access ramp, new barge handling area, and associated seawalls within Portion A of the Site	Mon 2/12/24	Tue 29/7/25	240 days	33	0	18/24		
35	Operation and maintenance the new berthing facilities	Wed 30/7/25	Sat 31/7/27	732 days	34				
36	Demolition & reconstruction/relocation of existing facilities within Portion A of the Site above as and when instructed by the Project Manager	Sun 4/8/24	Thu 30/1/25	180 days	26SS				
37	Project Manager's Principal Site Office and Secondary Site Office, and Temporary Accommodation for the Contractor	Sun 4/8/24	Fri 1/11/24	90 days					
38	Preparing and submitting a proposal for project manager for acceptance	Sun 4/8/24	Sat 17/8/24	14 days		1			
39	Construct a new Project Manager's Secondary Site Office	Sun 18/8/24	Fri 18/10/24	62 days	38	0			
40	Relocate furniture, office equipment and computer facilities previously installed at the existing Project Manager's Site Office to the new office	Sat 19/10/24	Fri 1/11/24	14 days	39	0			
41	Dismantle and re-assemble the existing Project Manager's Principal Site Office to a new location	Sun 18/8/24	Fri 25/10/24	69 days	38	0			
42	Demolish the existing Secondary Site Office.	Sat 26/10/24	Fri 1/11/24	7 days	41	0			
43	Construction of Temporary Accommodation for the Contractor	Sun 18/8/24	Fri 1/11/24	76 days	38	1			
44	New Combined Reception and Exit Offices	Sun 4/8/24	Sun 1/12/24	120 days					
45	Preparing and submitting a proposal to project manager for acceptance	Sun 4/8/24	Sat 17/8/24	14 days		0			
46	Construction of the new Combined Reception and Exit Offices and new weighbridges	Sun 18/8/24	Thu 21/11/24	96 days	45	0			
47	Relocate the existing CWDCMIS to the new CREO office	Fri 22/11/24	Sun 1/12/24	10 days	46	0			
48	Construction Concrete Paved Roads to the new Combined Reception and Exit	Sun 4/8/24	Sun 1/12/24	120 days					
49	Preparing and submitting a proposal to project manager for acceptance	Sun 4/8/24	Sat 17/8/24	14 days		0			
50	Construction of the concrete pave roads	Sun 18/8/24	Sun 1/12/24	106 days	49	0			
51	New Integrated Public Fill Reception Platform	Sun 4/8/24	Sun 1/12/24	120 days					
52	Preparing and submitting a proposal to project manager for acceptance	Sun 4/8/24	Sat 17/8/24	14 days		0			
53	Construction of the New Integrated Public Fill Reception Platform	Sun 18/8/24	Sun 1/12/24	106 days	52	0			
54	Bituminous Materials paved Roads to the Integrated Public Fill Reception Platform	Sun 4/8/24	Sun 1/12/24	120 days					
55	Preparing and submitting a proposal to project manager for acceptance	Sun 4/8/24	Sat 17/8/24	14 days		0			
56	Construction of the Bituminous Materials paved Roads to the Integrated Public Fill Reception	Sun 18/8/24	Sun 1/12/24	106 days	55	0			
57	Relocation of Dewatering Plant and construction of reinforced concrete slurry receiving tank	Sun 4/8/24	Thu 30/1/25	180 days					
58	Preparing and submitting a proposal to project manager for acceptance	Sun 4/8/24	Sat 17/8/24	14 days					
59	Relocation of the 3 number of existing Dewatering Plant phase by phase	Sun 18/8/24	Thu 16/1/25	152 days	58				
60	Construction of reinforced concrete slurry receiving tank	Sun 18/8/24	Thu 16/1/25	152 days	58				
61	Demolish the existing structures at the Dewatering Plant	Fri 17/1/25	Thu 30/1/25	14 days	59				
62	Construction ,Relocation and demolition of Wash House	Sun 4/8/24	Sun 1/12/24	120 days					
63	Preparing and submitting a proposal to project manager for acceptance	Sun 4/8/24	Sat 17/8/24	14 days					
64	Construction of a new wash house	Sun 18/8/24	Sun 24/11/24	99 days	63				
65	Demolish the existing Wash House A1	Mon 25/11/24	Sun 1/12/24	7 days	64				
66	Relocate the existing Wash House A2 and Wash House A3 to new location	Sun 18/8/24	Sun 1/12/24	106 days	63				
67	Wheel Washing Bays	Sun 4/8/24	Sun 1/12/24	120 days					
68	Preparing and submitting a proposal to project manager for acceptance	Sun 4/8/24	Sat 17/8/24	14 days					
69	Construction of 2 nos of Wheel Washing Bays	Sun 18/8/24	Sun 24/11/24	99 days	68				
70	Demolish the existing wash bays	Mon 25/11/24	Sun 1/12/24	7 days	69				
71	Construction of new Recorder Houses	Sun 4/8/24	Sun 1/12/24	120 days					
72	Preparing and submitting a proposal to project manager for acceptance	Sun 4/8/24	Sat 17/8/24	14 days					
73	Construction of two new Recorder Houses	Sun 18/8/24	Sun 24/11/24	99 days	72				

Project: 3 months rolling programme (Aug 2024 to Oct 2024)
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Task		Project Summary		Inactive Summary		Manual Summary		External Milestone	
Split		External Tasks		Manual Task		Start-only		Progress	
Milestone		External Milestone		Duration-only		Finish-only		Deadline	
Summary		Inactive Milestone		Manual Summary Rollup		External Tasks			

ID	Task Name	Start	Finish	Duration	Predecessors	time risk allowances	Qtr 3, 2024		
							Aug	Sep	Oct
74	Demolition of two existing recorder houses A1 and A4	Mon 25/11/24	Sun 1/12/24	7 days	73		18/24		
75	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	Sun 4/8/24	Sat 31/7/27	1092 days	26SS				
76	Handing over the facilities at the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site to the Client.	Sat 31/7/27	Sat 31/7/27	1 day					
77	Planned Completion Date (Section 1)	Sat 31/7/27	Sat 31/7/27	1 day					
78	Section 2 of the Works - Tuen Mun Area 38 Fill Bank	Sun 4/8/24	Sat 31/7/27	1092 days					
79	Taking over the existing facilities at the Tuen Mun Area 38 Fill Bank within Portion B of the Site	Sun 4/8/24	Sun 4/8/24	1 day	0		4/8/2024		
80	Operation of the Tuen Mun Area 38 Fill Bank within Portion B of the Site	Sun 4/8/24	Sat 31/7/27	1092 days	0				
81	Operation and maintenance of the surveillance system within Portion B of the Site	Sun 4/8/24	Sat 31/7/27	1092 days	0				
82	Operation and maintenance of the existing tipping halls at the Tuen Mun Area 38 Fill Bank within Portion B of the Site	Sun 4/8/24	Sat 31/7/27	1092 days	0				
83	Operation and Maintenance of the Crushing Plant at the Tuen Mun Area 38 Fill Bank within Portion B of the Site	Sun 4/8/24	Sat 31/7/27	1092 days	0				
84	Operation and maintenance of glass cullet storage compartment at the Tuen Mun Area 38 Fill Bank within Portion B of the Site	Sun 4/8/24	Sat 31/7/27	1092 days	0				
85	Collection of fill materials delivered by Others vide marine transportation through the berthing facility within the site at Tsang Tsui and disposal of the fill materials collected to areas within the Site at Tsang Tsui as agreed by the Project Manager.	Sun 4/8/24	Sat 31/7/27	1092 days	0				
86	Handing over the facilities at the Tuen Mun Area 38 Fill Bank within Portion B of the Site and at Tsang Tsui within Portion C of the Site to the Client.	Sat 31/7/27	Sat 31/7/27	1 day	0				
87	Planned Completion Date (Section 2)	Sat 31/7/27	Sat 31/7/27	1 day					
88	Section 3 of the Works - Designated Reclamation Sites in the Mainland	Sun 4/8/24	Sat 31/7/27	1092 days					
89	Collection and delivery of 34 million tonnes of Public Fill by vessels from the Tseung Kwan O Area 137 Fill Bank and the Tuen Mun Area 38 Fill Bank to the Designated Reclamation Sites in the Mainland.	Sun 4/8/24	Sat 31/7/27	1092 days					
90	Deliver of public fill to mainland in year 2024	Sun 4/8/24	Tue 31/12/24	150 days					
91	Installing and arranging Front End Mobile Unit (FEMU) onto the proposed vessels	Thu 11/7/24	Sat 3/8/24	24 days	0				
92	Submitting application documents to EPD for application of dumping permits	Thu 1/8/24	Thu 1/8/24	1 day					
93	Obtaining the dumping permit from EPD (assumed on 30/09/2024)	Fri 2/8/24	Sat 3/8/24	2 days	92	0			
94	Submitting application documents to the Employer for the application of the dumping permit of waste at the sea	Thu 1/8/24	Thu 1/8/24	1 day					
95	Obtaining the dumping permits from Ministry of Ecology and Environment of the People's Republic of China through the Employer (assumed on 30/09/2024)	Fri 2/8/24	Sat 3/8/24	2 days	94	0			
96	Obtaining all necessary permits, licenses, approvals and consents	Thu 1/8/24	Sat 3/8/24	3 days		0			
97	Collection and delivery of 5,000,000 tonnes of Public Fill	Sun 4/8/24	Tue 31/12/24	150 days	93,95,96	2			
98	Deliver of public fill to mainland in year 2025	Wed 1/1/25	Wed 31/12/25	365 days					
99	Submitting application documents to EPD for application of dumping permits	Wed 18/12/24	Wed 18/12/24	1 day					
100	Obtaining the dumping permit from EPD (assumed on 31/12/24)	Thu 19/12/24	Tue 31/12/24	13 days	99	0			
101	Submitting application documents to the Employer for the application of the dumping permit of waste at the sea	Wed 20/11/24	Wed 20/11/24	1 day					
102	Obtaining the dumping permits from Ministry of Ecology and Environment of the People's Republic of China through the Employer (assumed on 30/09/2024)	Thu 21/11/24	Tue 31/12/24	41 days	101	0			
103	Obtaining all necessary permits, licenses, approvals and consents	Sat 21/12/24	Tue 31/12/24	11 days		0			
104	Collection and delivery of 11,400,000 tonnes of Public Fill	Wed 1/1/25	Wed 31/12/25	365 days	103,100,102	2			
105	Deliver of public fill to mainland in year 2026	Thu 1/1/26	Thu 31/12/26	365 days					
106	Submitting application documents to EPD for application of dumping permits	Thu 18/12/25	Thu 18/12/25	1 day					
107	Obtaining the dumping permit from EPD (assumed on 31/12/25)	Fri 19/12/25	Wed 31/12/25	13 days	106	0			

Project: 3 months rolling programme (Aug 2024 to Oct 2024)
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Task		Project Summary		Inactive Summary		Manual Summary		External Milestone	
Split		External Tasks		Manual Task		Start-only		Progress	
Milestone		External Milestone		Duration-only		Finish-only		Deadline	
Summary		Inactive Milestone		Manual Summary Rollup		External Tasks			

ID	Task Name	Start	Finish	Duration	Predecessors	time risk allowances	Qtr 3, 2024		
							Aug	Sep	Oct
108	Submitting application documents to the Employer for the application of the dumping permit of waste at the sea	Thu 20/11/25	Thu 20/11/25	1 day					
109	Obtaining the dumping permits from Ministry of Ecology and Environment of the People's Republic of China through the Employer (assumed on	Fri 21/11/25	Wed 31/12/25	41 days	108	0			
110	Obtaining all necessary permits, licenses, approvals and consents	Sun 21/12/25	Wed 31/12/25	11 days		0			
111	Collection and delivery of 11,400,000 tonnes of Public Fill	Thu 1/1/26	Thu 31/12/26	365 days	107,109,110	2			
112	Deliver of public fill to mainland in year 2027	Fri 1/1/27	Sat 31/7/27	212 days					
113	Submitting application documents to EPD for application of dumping permits	Fri 18/12/26	Fri 18/12/26	1 day					
114	Obtaining the dumping permit from EPD (assumed on 31/12/26)	Sat 19/12/26	Thu 31/12/26	13 days	113	0			
115	Submitting application documents to the Employer for the application of the dumping permit of waste at the sea	Fri 20/11/26	Fri 20/11/26	1 day					
116	Obtaining the dumping permits from Ministry of Ecology and Environment of the People's Republic of China through the Employer (assumed on	Sat 21/11/26	Thu 31/12/26	41 days	115	0			
117	Obtaining all necessary permits, licenses, approvals and consents	Mon 21/12/26	Thu 31/12/26	11 days		0			
118	Collection and delivery of 6,200,000 tonnes of Public Fill	Fri 1/1/27	Sat 31/7/27	212 days	114,116,117	2			
119	Removal, excavation and deposition of stockpiled and/or deposited Public Fill within the Designated Reclamation Sites in the Mainland	Sun 4/8/24	Sat 31/7/27	1092 days					
120	Removal, excavation and deposition of stockpiled and/or deposited public fill	Sun 4/8/24	Sat 31/7/27	1092 days		0			
121	Operation and maintenance of the existing navigation channel and turning basins in association with the existing berthing facility at Zone E of the Designated Reclamation Sites in the Mainland.	Sun 4/8/24	Sat 31/7/27	1092 days					
122	Operation and maintenance of the existing navigation channel and turning basins	Sun 4/8/24	Sat 31/7/27	1092 days		0			
123	Design, construction, operation and maintenance of the new navigation channel and turning basins in association with the new berthing facility at Zone B of the Designated Reclamation Sites in the Mainland.	Sun 4/8/24	Sat 31/7/27	1092 days					
124	Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer for Zone B	Sun 4/8/24	Sun 4/8/24	1 day		0			
125	Design submission of new navigation channel and turning basins and obtaining all necessary design approvals and consents	Mon 5/8/24	Thu 3/10/24	60 days	124	0			
126	Construction of the new navigation channel	Wed 4/9/24	Fri 31/1/25	150 days	125SS+30 d	2			
127	Construction of the new turning basins	Tue 3/12/24	Fri 31/1/25	60 days	126SS+90 d	1			
128	Obtaining the construction completion certificate of new navigation channel and turning basins	Sat 1/2/25	Sat 1/2/25	1 day	127	0			
129	Operation and maintenance of the new navigation channel and turning basins	Sun 2/2/25	Sat 31/7/27	910 days	128	0			
130	Design, construction, operation and maintenance of new berthing facility at Zone B of the Designated Reclamation Sites in the Mainland.	Sun 4/8/24	Sat 31/7/27	1092 days					
131	Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer for Zone B	Sun 4/8/24	Sun 4/8/24	1 day					
132	Design submission of new berthing facilities and obtaining all necessary design approvals and consents	Mon 5/8/24	Thu 3/10/24	60 days	131	0			
133	Precasting cassion units and coping units	Wed 4/9/24	Mon 2/12/24	90 days	132SS+30 d	1			
134	Construction of rubber mound foundation	Fri 4/10/24	Wed 1/1/25	90 days	132SS+60 d	2			
135	Installation of cassion units and coping units	Sun 3/11/24	Fri 31/1/25	90 days	132SS+90 d	2			
136	Backfilling and in-situ concreting	Tue 3/12/24	Fri 31/1/25	60 days	132SS+120 c	2			
137	Installation of rubber fenders and bollards	Thu 2/1/25	Fri 31/1/25	30 days	132SS+150 c	2			
138	Obtaining the construction completion certificate new berthing facilities	Sat 1/2/25	Sat 1/2/25	1 day	137	0			
139	Operation and maintenance of new berthing facilities	Sun 2/2/25	Sat 31/7/27	910 days	138				
140	Design and construction of seawalls (approximate 4,400m) in association with new berthing facility at Zone B of the Designated Reclamation Sites in the Mainland.	Sun 4/8/24	Sat 31/7/27	1092 days					

Project: 3 months rolling programme (Aug 2024 to Oct 2024) Date: 16/8/2024 Revision:Rev_01	Task		Project Summary		Inactive Summary		Manual Summary		External Milestone	
	Split		External Tasks		Manual Task		Start-only		Progress	
	Milestone		External Milestone		Duration-only		Finish-only		Deadline	
	Summary		Inactive Milestone		Manual Summary Rollup		External Tasks			

ID	Task Name	Start	Finish	Duration	Predecessor	time risk allowances	Qtr 3, 2024		
							Aug	Sep	Oct
141	Obtaining the permits from Ministry of Ecology and environment of the People's Republic of China through the Employer for Zone B	Sun 4/8/24	Sun 4/8/24	1 day		0	8/24		
142	Design submission of seawalls and obtaining all necessary design approvals and consents	Mon 5/8/24	Tue 3/9/24	30 days	141	0			
143	Construction of seawalls (approx. 4400m)	Wed 4/9/24	Fri 30/7/27	1060 days	142	2			
144	Obtaining the construction completion certificate of seawalls	Sat 31/7/27	Sat 31/7/27	1 day	143	0			31/7
145	Planned Completion Date (Section 3)	Sat 31/7/27	Sat 31/7/27	1 day					

Project: 3 months rolling programme (Aug 2024 to Oct 2024) Date: 16/8/2024 Revision: Rev_01	Task		Project Summary		Inactive Summary		Manual Summary		External Milestone	
	Split		External Tasks		Manual Task		Start-only		Progress	
	Milestone		External Milestone		Duration-only		Finish-only		Deadline	
	Summary		Inactive Milestone		Manual Summary Rollup		External Tasks			

ID	Task Name	Start	Finish	Nov '24					Dec '24					Jan '25				
				21	28	4	11	18	25	2	9	16	23	30	6	13	20	27
61	Demolish the existing structures at the Dewatering Plant	Sun 14/12/25	Sat 27/12/25		1/1/24												31/1/25	
62	Construction ,Relocation and demolition of Wash House	Tue 1/7/25	Tue 28/10/25															
63	Preparing and submitting a proposal to project manager for acceptance	Tue 1/7/25	Mon 14/7/25															
64	Construction of a new wash house	Tue 15/7/25	Tue 21/10/25															
65	Demolish the existing Wash House A1	Tue 21/10/25	Mon 27/10/25															
66	Relocate the existing Wash House A2 and Wash House A3 to new location	Tue 15/7/25	Tue 28/10/25															
67	Wheel Washing Bays	Tue 1/7/25	Tue 28/10/25															
68	Preparing and submitting a proposal to project manager for acceptance	Tue 1/7/25	Mon 14/7/25															
69	Construction of 2 nos of Wheel Washing Bays	Tue 15/7/25	Tue 21/10/25															
70	Demolish the existing wash bays	Wed 22/10/25	Tue 28/10/25															
71	Construction of new Recorder Houses	Tue 1/7/25	Tue 28/10/25															
72	Preparing and submitting a proposal to project manager for acceptance	Tue 1/7/25	Mon 14/7/25															
73	Construction of two new Recorder Houses	Tue 15/7/25	Tue 21/10/25															
74	Demolition of two existing recorder houses A1 and A4	Wed 22/10/25	Tue 28/10/25															
75	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	Sun 4/8/24	Sat 31/7/27															
76	Handing over the facilities at the Tseung Kwan O Area 137 Fill Bank within Portion A of the Site to the Client.	Sat 31/7/27	Sat 31/7/27															
77	Planned Completion Date (Section 1)	Sat 31/7/27	Sat 31/7/27															
78	Section 2 of the Works - Tuen Mun Area 38 Fill Bank	Sun 4/8/24	Sat 31/7/27															
79	Taking over the existing facilities at the Tuen Mun Area 38 Fill Bank within Portion B of the Site	Sun 4/8/24	Sun 4/8/24															
80	Operation of the Tuen Mun Area 38 Fill Bank within Portion B of the Site	Sun 4/8/24	Sat 31/7/27															
81	Operation and maintenance of the surveillance system within Portion B of the Site	Sun 4/8/24	Sat 31/7/27															
82	Operation and maintenance of the existing tipping halls at the Tuen Mun Area 38 Fill Bank within Portion B of the Site	Sun 4/8/24	Sat 31/7/27															
83	Operation and Maintenance of the Crushing Plant at the Tuen Mun Area 38 Fill Bank within Portion B of the Site	Sun 4/8/24	Sat 31/7/27															
84	Operation and maintenance of glass cullet storage compartment at the Tuen Mun Area 38 Fill Bank within Portion B of the Site	Sun 4/8/24	Sat 31/7/27															
85	Collection of fill materials delivered by Others vide marine transportation through the berthing facility within the site at Tsang Tsui and disposal of the fill materials collected to areas within the Site at Tsang Tsui as agreed by the Project Manager.	Sun 4/8/24	Sat 31/7/27															
86	Handing over the facilities at the Tuen Mun Area 38 Fill Bank within Portion B of the Site and at Tsang Tsui within Portion C of the Site to the Client.	Sat 31/7/27	Sat 31/7/27															
87	Planned Completion Date (Section 2)	Sat 31/7/27	Sat 31/7/27															
88	Section 3 of the Works - Designated Reclamation Sites in the Mainland	Sun 4/8/24	Sat 31/7/27															
89	Collection and delivery of 34 million tonnes of Public Fill by vessels from the Tseung Kwan O Area 137 Fill Bank and the Tuen Mun Area 38 Fill Bank to the Designated Reclamation Sites in the Mainland.	Sun 4/8/24	Sat 31/7/27															
90	Deliver of public fill to mainland in year 2024	Sun 4/8/24	Tue 31/12/24															
91	Installing and arranging Front End Mobile Unit (FEMU) onto the proposed vessels	Thu 11/7/24	Sat 3/8/24															
92	Submitting application documents to EPD for application of dumping permits	Thu 1/8/24	Thu 1/8/24															

Project: Programme CV/2023/10 Date: 31/10/2024 Rev: Rev_01	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			

ID	Task Name	Start	Finish	Nov '24					Dec '24					Jan '25				
				21	28	4	11	18	25	2	9	16	23	30	6	13	20	27
93	Obtaining the dumping permit from EPD (assumed on 30/09/2024)	Fri 2/8/24	Sat 3/8/24		1/11/24													31/1/25
94	Submitting application documents to the Employer for the application of the dumping permit of waste at the sea	Thu 1/8/24	Thu 1/8/24															
95	Obtaining the dumping permits from Ministry of Ecology and Environment of the People's Republic of China through the Employer (assumed on 30/09/2024)	Fri 2/8/24	Sat 3/8/24															
96	Obtaining all necessary permits, licenses, approvals and consents	Thu 1/8/24	Sat 3/8/24															
97	Collection and delivery of 5,000,000 tonnes of Public Fill	Sun 4/8/24	Tue 31/12/24	31/12/2024														
98	Deliver of public fill to mainland in year 2025	Wed 1/1/25	Wed 31/12/25															
99	Submitting application documents to EPD for application of dumping permits	Wed 18/12/24	Wed 18/12/24															
100	Obtaining the dumping permit from EPD (assumed on 31/12/24)	Thu 19/12/24	Tue 31/12/24															
101	Submitting application documents to the Employer for the application of the dumping permit of waste at the sea	Wed 20/11/24	Wed 20/11/24															
102	Obtaining the dumping permits from Ministry of Ecology and Environment of the People's Republic of China through the Employer (assumed on 30/09/2024)	Thu 21/11/24	Tue 31/12/24															
103	Obtaining all necessary permits, licenses, approvals and consents	Sat 21/12/24	Tue 31/12/24															
104	Collection and delivery of 11,400,000 tonnes of Public Fill	Wed 1/1/25	Wed 31/12/25															
105	Deliver of public fill to mainland in year 2026	Thu 1/1/26	Thu 31/12/26															
106	Submitting application documents to EPD for application of dumping permits	Thu 18/12/25	Thu 18/12/25															
107	Obtaining the dumping permit from EPD (assumed on 31/12/25)	Fri 19/12/25	Wed 31/12/25															
108	Submitting application documents to the Employer for the application of the dumping permit of waste at the sea	Thu 20/11/25	Thu 20/11/25															
109	Obtaining the dumping permits from Ministry of Ecology and Environment of the People's Republic of China through the Employer (assumed on 30/09/2024)	Fri 21/11/25	Wed 31/12/25															
110	Obtaining all necessary permits, licenses, approvals and consents	Sun 21/12/25	Wed 31/12/25															
111	Collection and delivery of 11,400,000 tonnes of Public Fill	Thu 1/1/26	Thu 31/12/26															
112	Deliver of public fill to mainland in year 2027	Fri 1/1/27	Sat 31/7/27															
113	Submitting application documents to EPD for application of dumping permits	Fri 18/12/26	Fri 18/12/26															
114	Obtaining the dumping permit from EPD (assumed on 31/12/26)	Sat 19/12/26	Thu 31/12/26															
115	Submitting application documents to the Employer for the application of the dumping permit of waste at the sea	Fri 20/11/26	Fri 20/11/26															
116	Obtaining the dumping permits from Ministry of Ecology and Environment of the People's Republic of China through the Employer (assumed on 30/09/2024)	Sat 21/11/26	Thu 31/12/26															
117	Obtaining all necessary permits, licenses, approvals and consents	Mon 21/12/26	Thu 31/12/26															
118	Collection and delivery of 6,200,000 tonnes of Public Fill	Fri 1/1/27	Sat 31/7/27															
119	Removal, excavation and deposition of stockpiled and/or deposited Public Fill within the Designated Reclamation Sites in the Mainland	Sun 4/8/24	Sat 31/7/27															
120	Removal, excavation and deposition of stockpiled and/or deposited public fill	Sun 4/8/24	Sat 31/7/27															

Project: Programme CV/2023/10
Date: 31/10/2024
Rev: Rev_01

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

ID	Task Name	Start	Finish	Nov '24					Dec '24					Jan '25				
				21	28	4	11	18	25	2	9	16	23	30	6	13	20	27
121	Operation and maintenance of the existing navigation channel and turning basins in association with the existing berthing facility at Zone E of the Designated Reclamation Sites in the Mainland.	Sun 4/8/24	Sat 31/7/27		1/11/24												31/1/25	
122	Operation and maintenance of the existing navigation channel and turning basins	Sun 4/8/24	Sat 31/7/27															
123	Design, construction, operation and maintenance of the new navigation channel and turning basins in association with the new berthing facility at Zone B of the Designated Reclamation Sites in the Mainland.	Sun 4/8/24	Sat 31/7/27															
124	Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer for Zone B	Sun 4/8/24	Sun 4/8/24															
125	Design submission of new navigation channel and turning basins and obtaining all necessary design approvals and consents	Mon 5/8/24	Thu 3/10/24															
126	Construction of the new navigation channel	Wed 4/9/24	Fri 31/1/25															
127	Construction of the new turning basins	Tue 3/12/24	Fri 31/1/25															
128	Obtaining the construction completion certificate of new navigation channel and turning basins	Sat 1/2/25	Sat 1/2/25															
129	Operation and maintenance of the new navigation channel and turning basins	Sun 2/2/25	Sat 31/7/27															
130	Design, construction, operation and maintenance of new berthing facility at Zone B of the Designated Reclamation Sites in the Mainland.	Sun 4/8/24	Sat 31/7/27															
131	Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republic of China through the Employer for Zone B	Sun 4/8/24	Sun 4/8/24															
132	Design submission of new berthing facilities and obtaining all necessary design approvals and consents	Mon 5/8/24	Thu 3/10/24															
133	Precasting cassion units and coping units	Wed 4/9/24	Mon 2/12/24															
134	Construction of rubber mound foundation	Fri 4/10/24	Wed 1/1/25															
135	Installation of cassion units and coping units	Sun 3/11/24	Fri 31/1/25															
136	Backfilling and in-situ concreting	Tue 3/12/24	Fri 31/1/25															
137	Installation of rubber fenders and bollards	Thu 2/1/25	Fri 31/1/25															
138	Obtaining the construction completion certificate new berthing facilities	Sat 1/2/25	Sat 1/2/25															
139	Operation and maintenance of new berthing facilities	Sun 2/2/25	Sat 31/7/27															
140	Design and construction of seawalls (approximate 4,400m) in association with new berthing facility at Zone B of the Designated Reclamation Sites in the Mainland.	Sun 4/8/24	Sat 31/7/27															
141	Obtaining the permits from Ministry of Ecology and environment of the People's Republic of China through the Employer for Zone B	Sun 4/8/24	Sun 4/8/24															
142	Design submission of seawalls and obtaining all necessary design approvals and consents	Mon 5/8/24	Tue 3/9/24															
143	Construction of seawalls (approx. 4400m)	Wed 4/9/24	Fri 30/7/27															
144	Obtaining the construction completion certificate of seawalls	Sat 31/7/27	Sat 31/7/27															
145	Planned Completion Date (Section 3)	Sat 31/7/27	Sat 31/7/27															

Project: Programme CV/2023/10
Date: 31/10/2024
Rev: Rev_01

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

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					
<ul style="list-style-type: none"> Dust control / mitigation measures shall be provided to prevent dust nuisance. 	All areas		√		
<ul style="list-style-type: none"> 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	√			
<ul style="list-style-type: none"> Water sprays shall be provided and used to dampen materials. 	All areas	√			
<ul style="list-style-type: none"> Regular cleaning and watering the site shall be provided to minimize the fugitive dust emissions. 	All areas	√			
<ul style="list-style-type: none"> All vehicles shall be restrict to a maximum speed of 10 km per hour. 	All areas	√			
<ul style="list-style-type: none"> 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	√			
<ul style="list-style-type: none"> The designated site main haul rout shall be paved or regular watering. 	All haul roads	√			
<ul style="list-style-type: none"> Frequent watering of work site shall be at least three times per day. 	All areas	√			
<ul style="list-style-type: none"> Wheel washing facilities including high pressure water jet shall be provided at the entrance of work site. 	Site Egress	√			
<ul style="list-style-type: none"> Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank. 	Site Egress	√			
<ul style="list-style-type: none"> 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	√			
<ul style="list-style-type: none"> 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	√			
<ul style="list-style-type: none"> When fill material is transfer by belt conveyor systems, the conveyors shall be enclosed on top and 2 sides. 	C&DMSF	√			
<ul style="list-style-type: none"> The belt scraper shall be equipped with bottom plates or other similar means to prevent falling of material from the return belt. 	C&DMFS	√			
<ul style="list-style-type: none"> 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	√			
<ul style="list-style-type: none"> All plant and equipment should be well maintained e.g. without black smoke emission. 		√			
Noise Impact		√			
<ul style="list-style-type: none"> Approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted. 	All areas				
<ul style="list-style-type: none"> Only well maintained plant should be operated on-site and plant should be serviced regularly during the construction works. 	All areas	√			
<ul style="list-style-type: none"> Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials. 	All areas	√			
<ul style="list-style-type: none"> Air compressors and hand held breakers should have noise labels. 	All areas	√			
<ul style="list-style-type: none"> 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	√			
<ul style="list-style-type: none"> 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	36	0	3.7884	1.0296	0.1716

Result:

Difference between means = 3.1806
(95% CI : 2.4833 < Diff < 3.8778)

t-value of difference = 9.0076 (18 degrees of freedom)

Calculated t-value > Critical t-value

Conclusion:

There is statistically significant difference between the groups.
The P-Value of 130% Baseline Mean is larger than quarterly mean = >0.99
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	36	0	3.2926	1.1647	0.1941

Result:

Difference between means = 3.6764
(95% CI : 2.9269 < Diff < 4.4260)

t-value of difference = 10.9420 (23 degrees of freedom)

Calculated t-value > Critical t-value

Conclusion:

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

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	3.5925	1.0138	0.1645

Result:

Difference between means = 3.3045
(95% CI : 2.5531 < Diff < 4.0558)

t-value of difference = 7.3521 (15 degrees of freedom)

Calculated t-value > Critical t-value

Conclusion:

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

Station: 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	3.7452	0.9941	0.1613

Result:

Difference between means = 3.1878
(95% CI : 2.5181 < Diff < 3.8576)

t-value of difference = 9.3194 (18 degrees of freedom)

Calculated t-value > Critical t-value

Conclusion:

There is statistically significant difference between the groups.
The P-Value of 130% Baseline Mean is larger than quarterly mean = >0.99
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	36	0	3.5389	0.7367	0.1228

Result:

Difference between means = 0.6191

(95% CI : -0.0030 < Diff < 1.2413)

t-value of difference = 1.4980 (13 degrees of freedom)

Calculated t-value < Critical t-value

Conclusion:

There is no statistically significant difference between the groups.

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	36	0	3.6069	0.7736	0.1289

Result:

Difference between means = 0.2951

(95% CI : -0.2926 < Diff < 0.8827)

t-value of difference = 0.8335 (15 degrees of freedom)

Calculated t-value < Critical t-value

Conclusion:

There is no statistically significant difference between the groups.

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	36	0	3.6824	0.7148	0.1191

Result:

Difference between means = 0.2536

(95% CI : -0.3711 < Diff < 0.8783)

t-value of difference = 0.5964 (13 degrees of freedom)

Calculated t-value < Critical t-value

Conclusion:

There is no statistically significant difference between the groups.

Statistical Analysis of the Trend of Suspended Solids

For Mid-Ebb Tide

Station: C1a

t-test

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	4.2860	1.3530	0.3906
Quarterly Mean	38	0	3.6904	0.6106	0.0990

Result:

Difference between means = 0.5956

(95% CI : 0.0359 < Diff < 1.1554)

t-value of difference = 1.4783 (12 degrees of freedom)

Calculated t-value < Critical t-value

Conclusion:

There is no statistically significant difference between the groups.

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	3.6154	0.5938	0.0963

Result:

Difference between means = 0.4746

(95% CI : -0.0720 < Diff < 1.0213)

t-value of difference = 1.2034 (12 degrees of freedom)

Calculated t-value < Critical t-value

Conclusion:

There is no statistically significant difference between the groups.

Station: M5

t-test

Group Name	N	Missing	Mean	Std D0ev	SE
130% Baseline Mean	12	0	3.7900	1.4650	0.4229
Quarterly Mean	38	0	3.5241	0.7116	0.1154

Result:

Difference between means = 0.2659

(95% CI : -0.3595 < Diff < 0.8912)

t-value of difference = 0.6065 (13 degrees of freedom)

Calculated t-value < Critical t-value

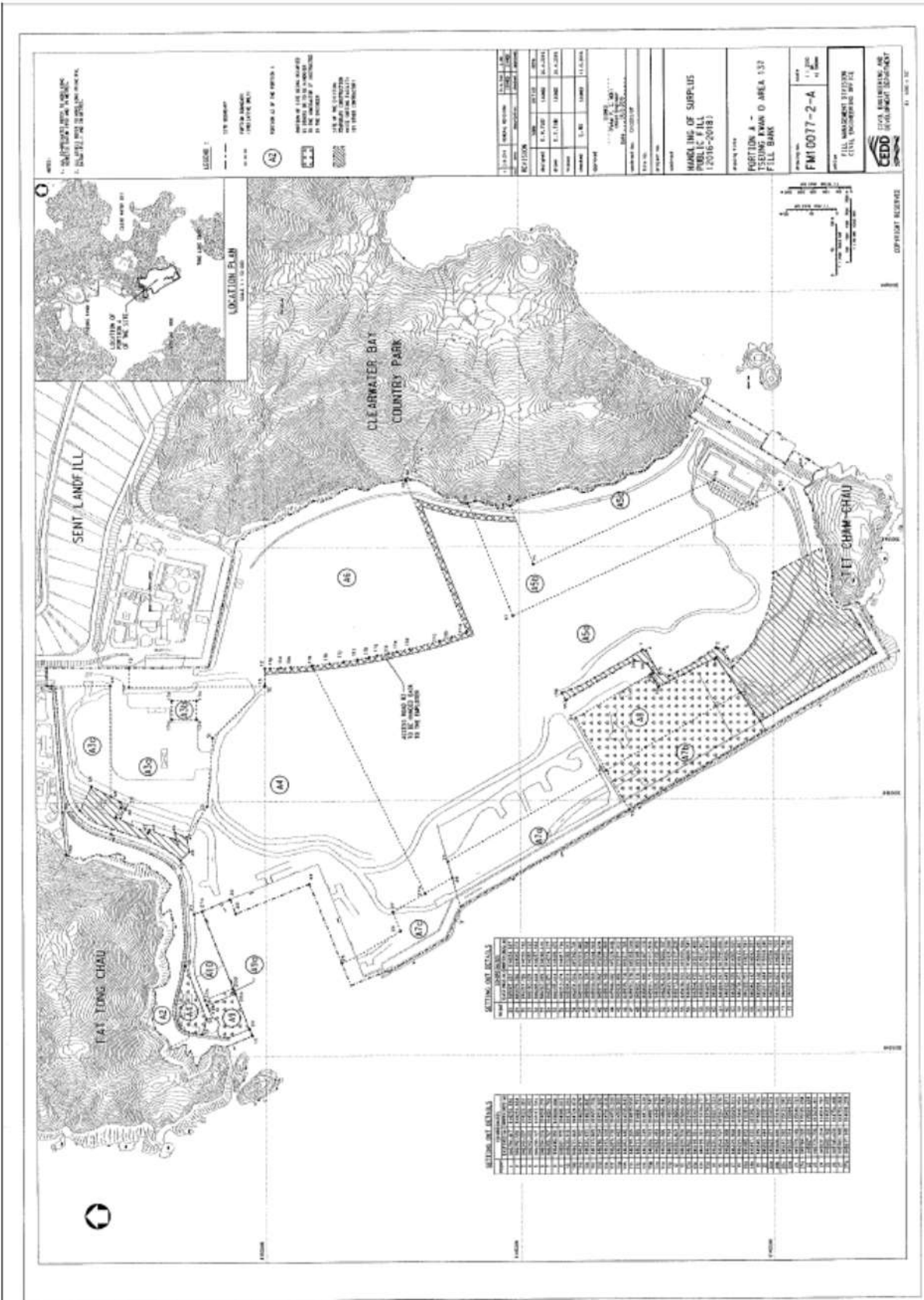
Conclusion:

There is no statistically significant difference between the groups.

Appendix

J

Site General Layout plan



Appendix

K

Weather Condition

Daily Extract of Meteorological Observations , October 2024 - 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	1005.2	34.2	30.9	27.8	21.6	58	-	350	34.5
2	1009.9	30.8	27.4	25.5	17.3	54	-	350	40.2
3	1013.2	29.4	26.1	23.3	14.6	49	-	360	33.4
4	1014.4	30.9	27	24.6	15.8	50	-	360	18.8
5	1013.3	31.5	27.9	25.5	20	63	-	360	20
6	1013.7	33.3	29.2	26.7	23	70	-	80	14
7	1014.4	32.9	29.3	27.3	22.2	66	-	80	10.4
8	1014.2	31.7	28.2	26.2	20.1	62	-	360	24.8
9	1013.5	27.4	26.4	25.2	20.1	68	Trace	10	22.8
10	1013	30.6	27	24.5	20.4	68	Trace	80	19.2
11	1013.7	27.5	25.3	23.2	21.3	79	8.7	80	23.6
12	1015.1	29.7	27	25.6	20.2	67	-	80	31.3
13	1014.5	30.2	27.5	25.9	22.2	73	-	70	29.5
14	1013.5	31	28	26.3	23	75	-	80	24
15	1013.6	30.9	28.1	26.6	23.3	75	-	80	22.7
16	1014.5	31.1	28.2	27.4	23	74	Trace	80	33.9
17	1013.9	29.7	27.8	27.1	23.3	77	Trace	80	32
18	1013.2	30.7	28.3	27.1	24	78	Trace	80	19.3
19	1014.1	33.7	29.2	26.4	23.9	74	-	80	10.1
20	1016.5	29.7	27.9	26.9	23.1	75	1.9	80	39.8
21	1015	31.5	27.8	26.4	22.9	75	Trace	80	25
22	1013.7	32.3	28.3	26	20.5	64	-	360	24.2
23	1012.4	28.4	25.7	23.4	16.4	57	-	360	40.5
24	1009.2	28.5	24.8	22	10.6	42	-	360	39.2
25	1006.7	29.4	26	22.9	13.2	45	-	360	38.4
26	1006.6	28.5	26.6	25.3	19.8	67	0.7	50	41.9
27	1009.3	29.2	27.3	25.9	22	73	Trace	50	27
28	1010.1	27.2	25.8	24.6	19.2	67	Trace	360	26.3
29	1011.1	26.7	25.3	23.7	19.1	69	Trace	40	19
30	1010.3	29.3	26.2	24.3	18.7	64	-	360	15.3
31	1006	30.6	27.1	24.1	16.4	52	-	340	23.1

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

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

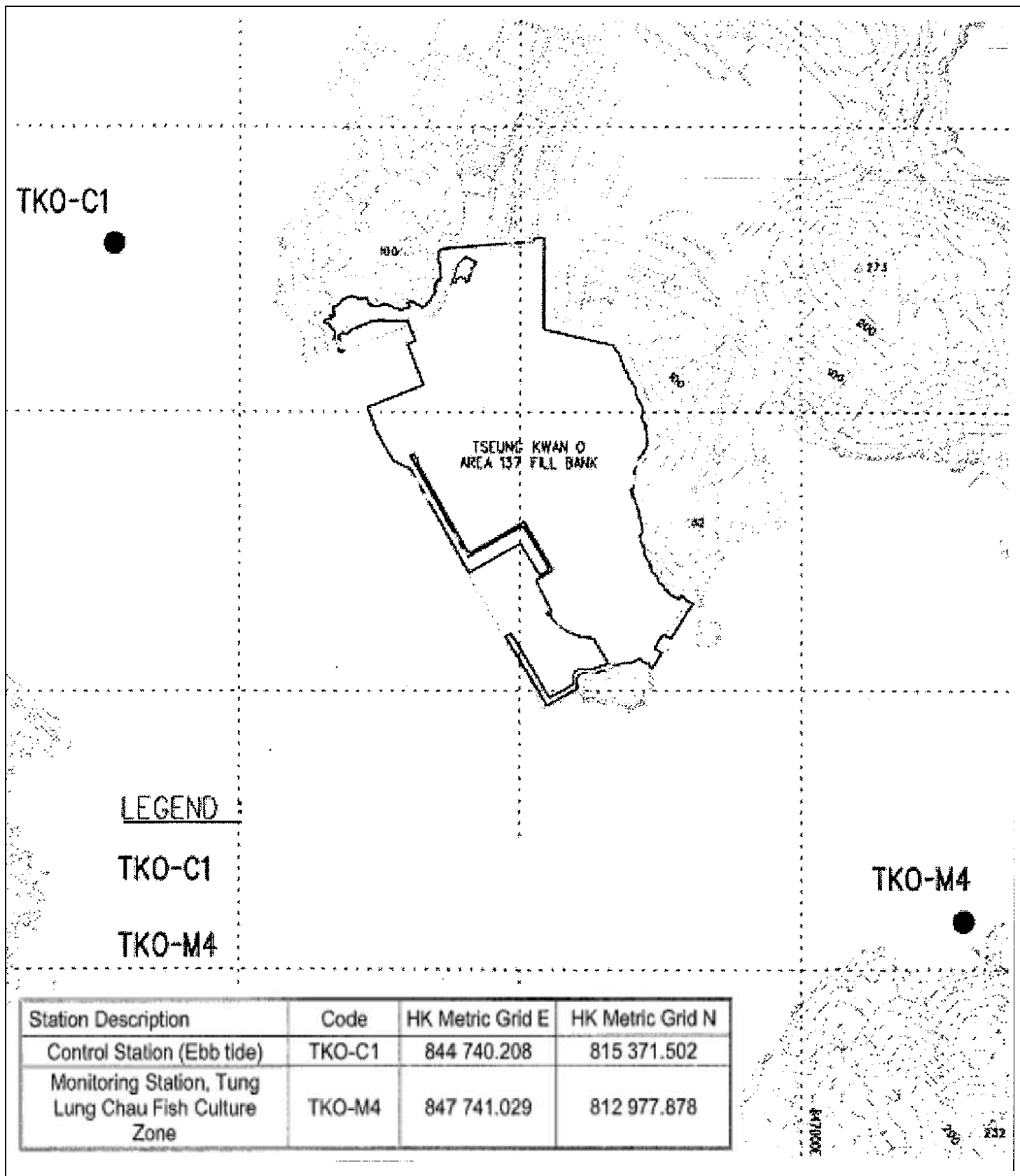
Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

Daily Extract of Meteorological Observations , December 2024 - 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	22.7	19.7	17.6	13.7	69	-	70	13.6
2	1015.1	23.8	21	18.8	14.6	68	-	40	16.3
3	1015.7	24.9	21.9	19.7	17.1	74	-	50	21.1
4	1016.3	23.9	22.2	21.4	17	73	-	70	35.1
5	1016.4	23.3	21.7	20.7	17.3	76	-	70	23
6	1016.6	23.3	21.4	20.2	15.8	71	-	70	19.1
7	1018.2	23.3	20.7	17.9	14.1	66	-	360	25.5
8	1020.9	21.6	18.3	16	11.7	65	-	360	29.7
9	1019.6	20.2	18.7	17.1	13	70	-	20	21.5
10	1016.5	22.4	20.6	19.2	15.6	73	-	70	27.1
11	1016.4	25.2	22.3	20	16.9	72	-	60	17.9
12	1018.3	22	19.5	17.1	12.7	65	-	360	25.1
13	1020.2	20.7	18.5	15.6	10.3	59	-	360	32.9
14	1024.7	17.3	15.5	13.8	4.8	49	-	360	40.5
15	1025.2	17	14.8	13	1.3	40	Trace	360	28.7
16	1022.7	18.7	16.3	14.4	3.8	44	-	360	19.2
17	1021	20.4	17.9	15.5	9.2	58	-	60	16.5
18	1021	20.9	18.6	16.6	6.2	45	-	360	21.5
19	1022.7	18.1	15.6	13.7	2.1	40	-	360	28.3
20	1020.6	17.7	14.9	11.9	2.9	45	-	360	17.8
21	1020	20.2	16.9	13.9	3.8	42	-	360	24.6
22	1021.4	18	15.8	13.5	4.9	48	-	360	26.9
23	1020.6	17.5	16.5	15.1	7.8	57	-	60	26.9
24	1021.2	19.1	17.4	15.6	8.2	55	-	40	26
25	1021.1	20.6	18.5	16.6	13	71	Trace	10	23.2
26	1021.6	22.9	20.1	18	15.2	74	-	10	15.5
27	1023.1	20.9	19.2	18.1	14.6	75	-	70	25.1
28	1024.9	18.8	16.9	15.1	4.3	43	-	360	33.7
29	1023.4	17.4	15.4	13.3	6.9	57	-	70	27.6
30	1021.2	20.4	17.7	14.3	10.4	63	-	40	10.6
31	1019.1	22.6	19.8	17.6	10.3	55	Trace	350	14.8

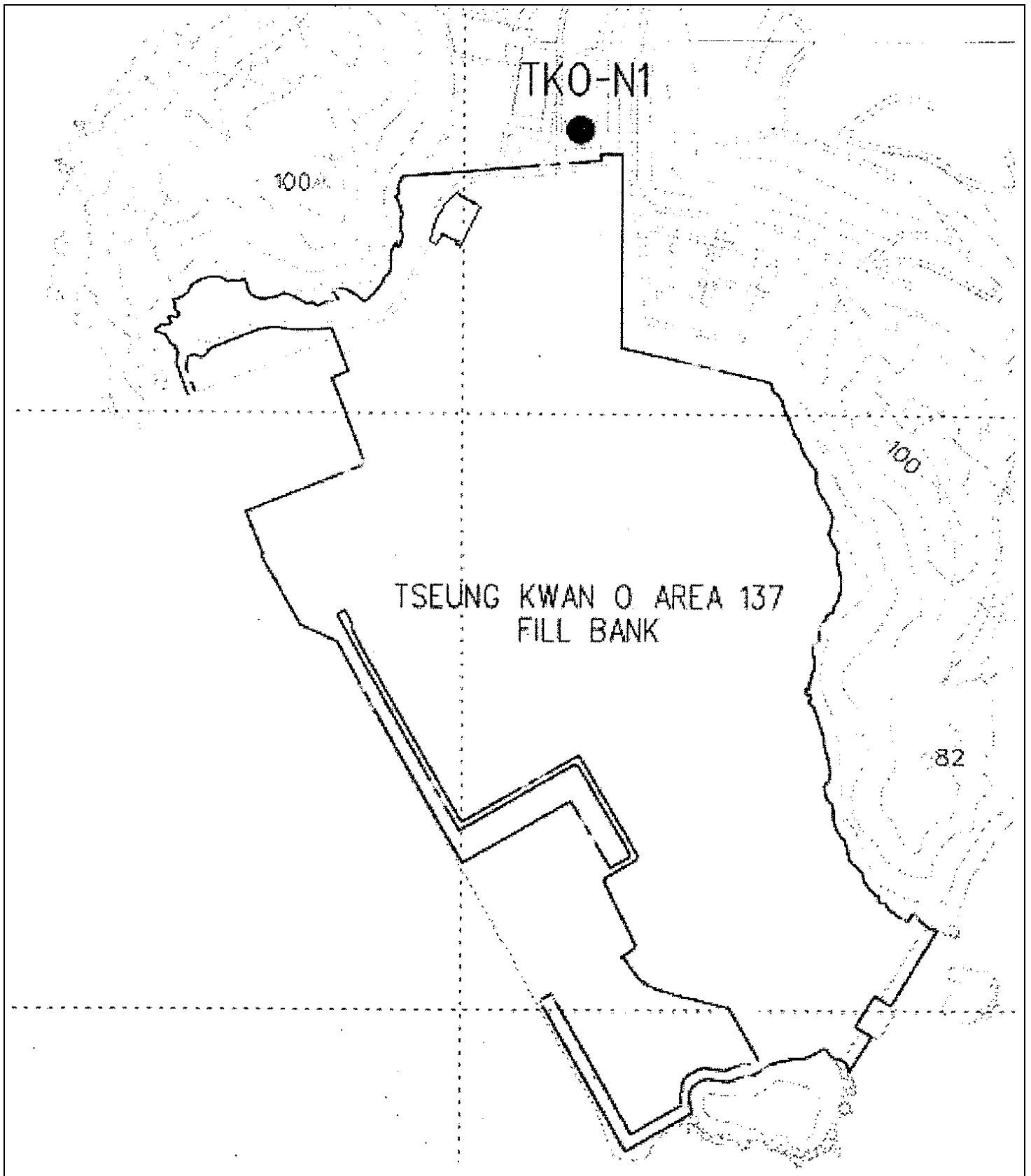
Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

Figures



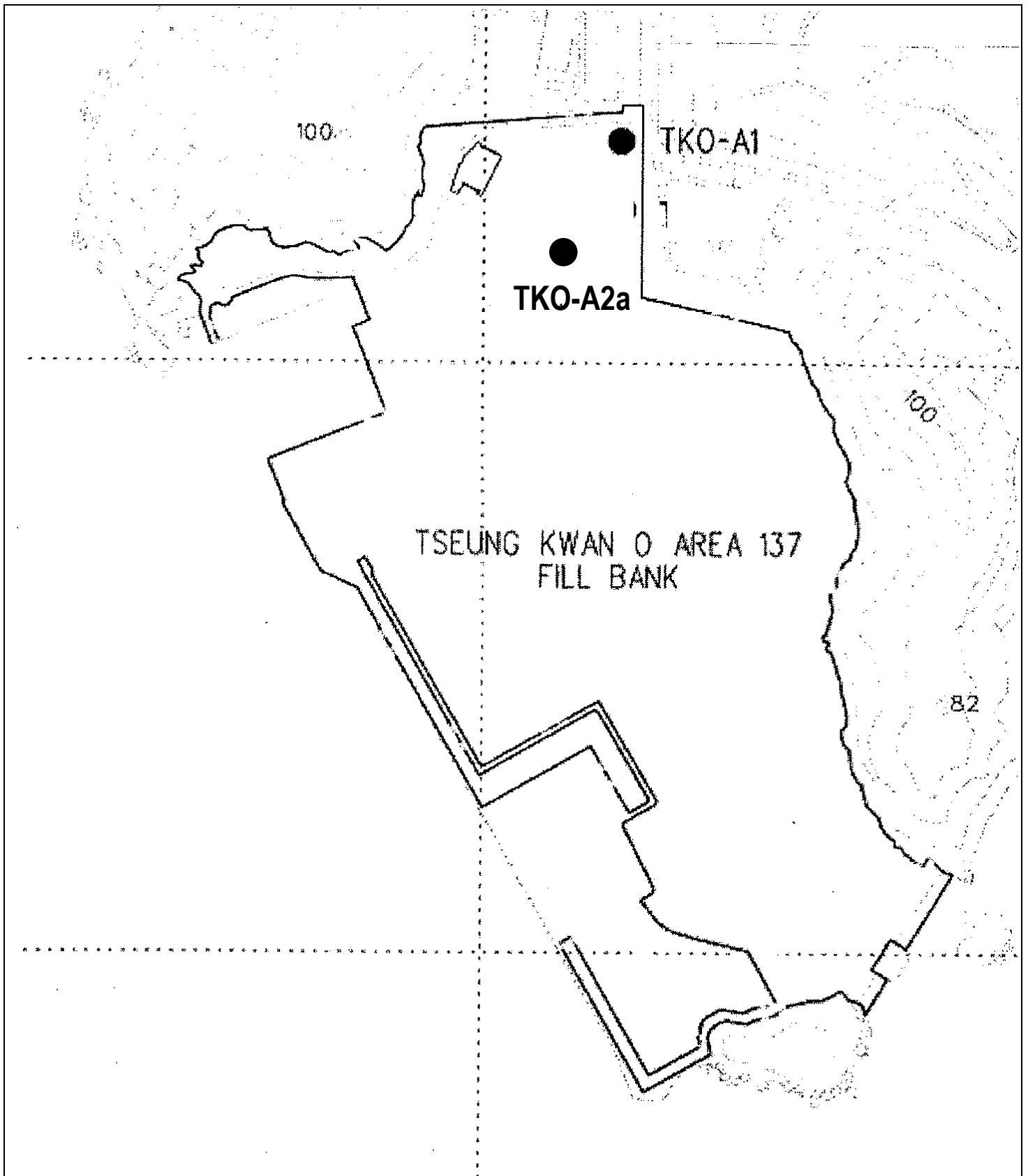
Contract No. CV/2023/10
 Handling of Surplus Public Fill (2024-2027)

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



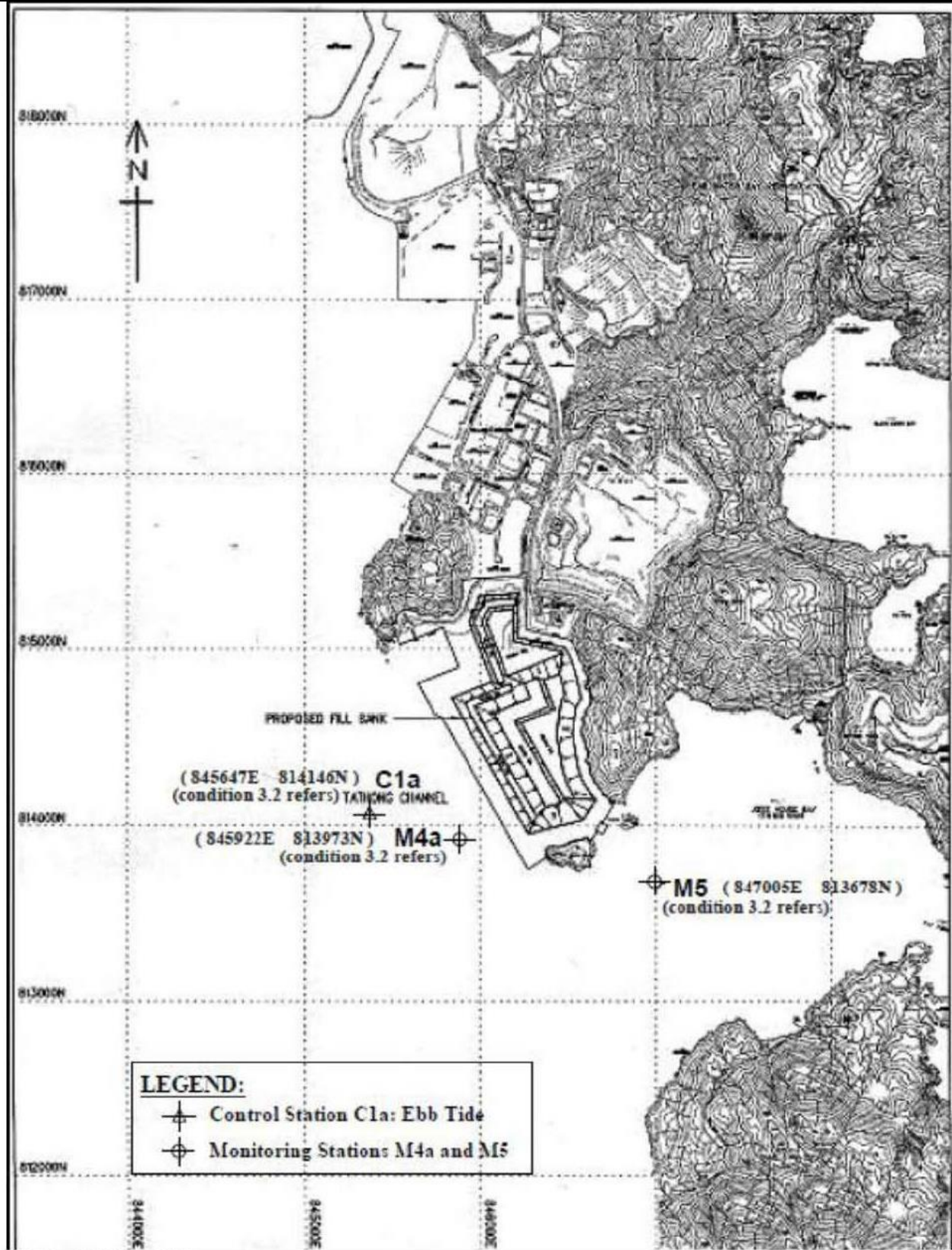
Contract No. CV/2023/10
Handling of Surplus Public Fill (2024-2027)

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



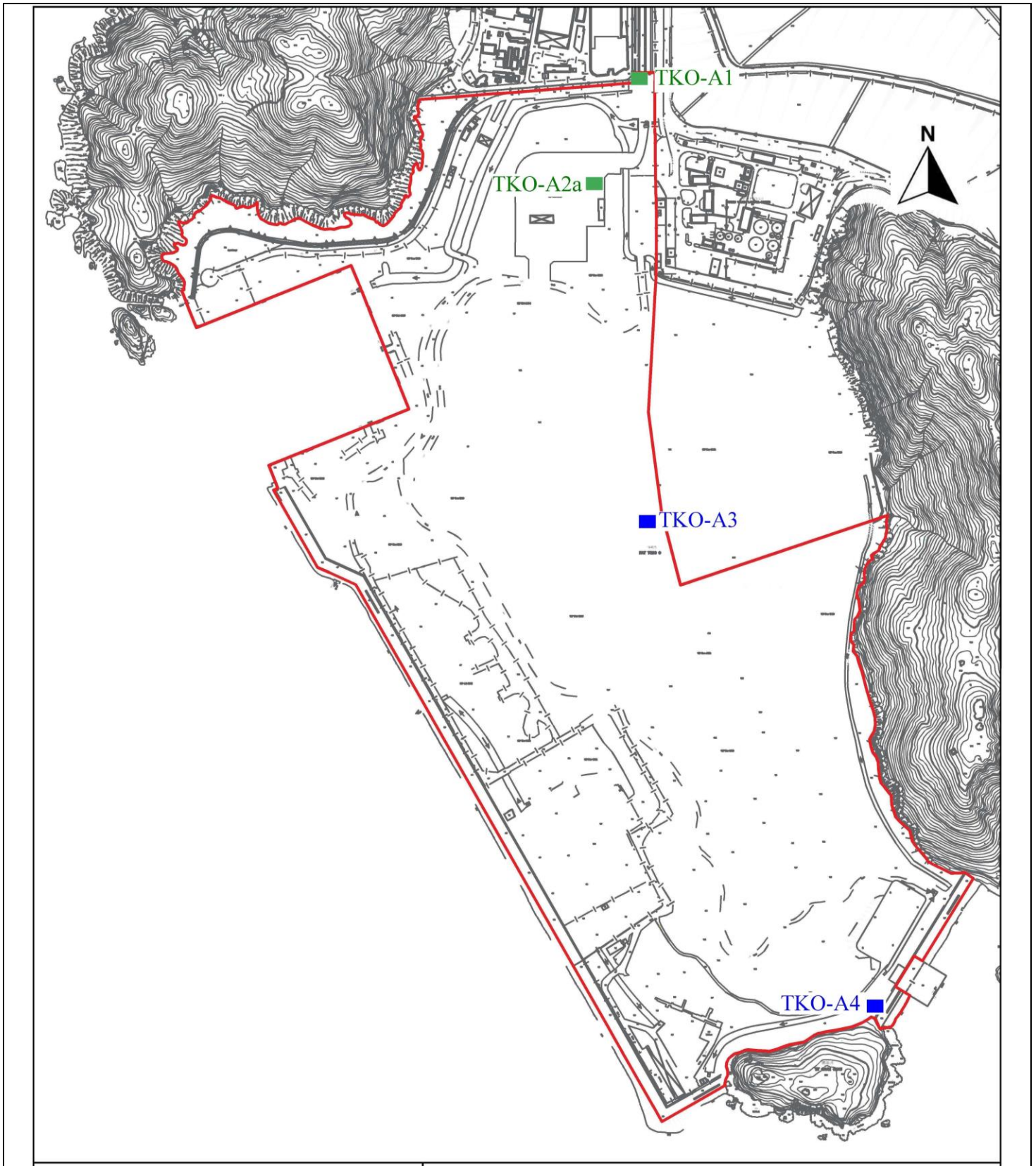
Contract No. CV/2023/10
Handling of Surplus Public Fill (2024-2027)

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



Contract No. CV/2023/10
 Handling of Surplus Public Fill (2024-2027)

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



Contract No. CV/2023/10
 Handling of Surplus Public Fill (2024-2027)

Figure 5
 Locations of Additional Air Quality Monitoring Stations
 Tseung Kwan O Area 137 Fill Bank