

東業德勤測試顧問有限公司 ETS-TESTCONSULT LTD.

TEST REPORT

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

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



China Harbour Engineering Co Ltd

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

TUEN MUN AREA 38 FILL BANK

QUARTERLY EM&A SUMMARY REPORT

NO.01

(FROM JULY 2024 TO SEPTEMBER 2024)

Prepared by:

LAU, Wing Sum

Assistant Environmental Officer

Checked by:

LAU, Chi Leung

Environmental Team Leader

Issue Date: 10 October 2024

Report No.: ENA45833



UMWELT CONSULTING LIMITED

23/F, On Hong Commercial Building, 145 Hennessy Road, Wan Chai, Hong Kong

By Post

Our Ref : P231104-EMA-TMFB-202409-V

Date: 14th October 2024

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

Attn: Mr. LAU Chi Leung

Environmental Permit (EP) No. EP-210/2005/F Expansion and Extension of Fill Bank at Tuen Mun Area 38 Quarterly EM&A Report for July to September 2024

Dear Sir,

Pursuant to Condition 4.6 of Environmental Permit (EP) No. EP-210/2005/F, please note the report "Tuen Mun Area 38 Fill Bank Quarterly EM&A Summary Report No. 01 (From July 2024 to September 2024)" dated 10 October 2024 submitted under the EP, certified by the Environmental Team Leader on 10 October 2024, had been reviewed and is hereby verified.

Should you have any query, please feel free to contact the undersigned at 3756 9590 or ivanting@umwelt.consulting.

Your faithfully,

For and on behalf of:

Umwelt Consulting Limited

Ting/o Chung Ivan

Independent Environmental Checker



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EXECUTIVE SUMMARY

This is Quarterly Environmental Monitoring and Audit (EM&A) Summary Report No.01 prepared by ETS-Testconsult Ltd (ET) for the "Contract No. CV/2021/09 Handling of Surplus Public Fill (2022-2023) – Tuen Mun (TM) Area 38 Fill Bank" (The Project) and "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 Tuen Mun Area 38 from 01 July 2024 to 30 September 2024.

Site Activities

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

July 2024

- 1. Operation of the Public Fill Reception Facilities at Tuen Mun Fill Bank (TMFB);
- 2. Operation of the Integrated Public Fill Reception Platform (Fixed Rigid Platform) at TMFB;
- 3. Operation and Maintenance of Wheel Washing Bays and Facilities at TMFB;
- 4. Operation and Maintenance of Wash House at TMFB;
- 5. Personnel Position Tracking and Proximity Detection System of Moving Plant at TMFB;
- 6. Operation and Maintenance a Digital Works Supervision System (DWSS) for TMFB;
- 7. Operation of a New Soil Platform for Preliminary Sorting of Public Fill at TMFB;
- 8. Operation of Concrete Slab at Wet Deposition Platform in TMFB
- 9. Operation and Maintenance of Crushing plant at TMFB;
- 10. Delivery of public fill to Taishan at TMFB;
- 11. Operation of Al System for Crushing Plant at TMFB
- 12. Implementation of C Easy system at TMFB (phase 1)
- 13. Carry out GCO Probe test and SRT
- 14. Operation of recycling public fill as blanket layer material of reclamation projects PMI No.70
- 15. Relocation works of soil platforms
- 16. Operation of new Integrated Public Fill Reception Platform at TMFB

August 2024

- 1. Operation of the Public Fill Reception Facilities at Tuen Mun Fill Bank (TMFB);
- 2. Operation of the Integrated Public Fill Reception Platform (Fixed Rigid Platform) at TMFB;
- 3. Operation and Maintenance of Wheel Washing Bays and Facilities at TMFB;
- 4. Operation and Maintenance of Wash House at TMFB;
- 5. Personnel Position Tracking and Proximity Detection System of Moving Plant at TMFB;
- 6. Operation and Maintenance a Digital Works Supervision System (DWSS) for TMFB;
- 7. Operation of a New Soil Platform for Preliminary Sorting of Public Fill at TMFB;
- 8. Operation of Concrete Slab at Wet Deposition Platform in TMFB
- 9. Operation and Maintenance of Crushing plant at TMFB;
- 10. Delivery of public fill to Taishan at TMFB;
- 11. Operation of AI System for Crushing Plant at TMFB
- 12. Implementation of C Easy system at TMFB (phase 1)
- 13. Carry out GCO Probe test and SRT
- 14. Operation of recycling public fill as blanket layer material of reclamation projects PMI No.70
- 15. Relocation works of soil platforms
- 16. Operation of new Integrated Public Fill Reception Platform at TMFB

September 2024

- 1. Operation of the Public Fill Reception Facilities at Tuen Mun Fill Bank (TMFB);
- 2. Operation of the Integrated Public Fill Reception Platform (Fixed Rigid Platform) at TMFB;
- 3. Operation and Maintenance of Wheel Washing Bays and Facilities at TMFB;
- 4. Operation and Maintenance of Wash House at TMFB;
- 5. Personnel Position Tracking and Proximity Detection System of Moving Plant at TMFB;
- 6. Operation and Maintenance a Digital Works Supervision System (DWSS) for TMFB;
- 7. Operation of a New Soil Platform for Preliminary Sorting of Public Fill at TMFB;
- 8. Operation of Concrete Slab at Wet Deposition Platform in TMFB
- 9. Operation and Maintenance of Crushing plant at TMFB:
- 10. Delivery of public fill to Taishan at TMFB;
- 11. Operation of Al System for Crushing Plant at TMFB
- 12.Implementation of C Easy system at TMFB (phase 1)
- 13. Carry out GCO Probe test and SRT
- 14.Operation of recycling public fill as blanket layer material of reclamation projects PMI No.70
- 15. Construction of concrete access road to fixed rigid platform



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Environmental Monitoring Works

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 quarter.

Noise Monitoring

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

Environmental Complaints, Notification of summons and successful prosecutions

One complaint was received on 30 September 2024 regarding dust nuisance. No notification of summon and prosecution with respect to environmental issues was received in this quarter.



1.0 INTRODUCTION

China Harbour Engineering Co Ltd (CHEC) appointed Environmental Team (ET) of ETS-Testconsult Limited (ETL) to undertake the Environmental Monitoring and Audit (EM&A) for the "Contract No: CV/2021/09 –Handling of Surplus Public Fill (2022-2023) – Tuen Mun (TM) Area 38 Fill Bank" (The Project) and "Contract No: CV/2023/10 – Handling of Surplus Public Fill (2024-2027) – Tseung Kwan O (TKO) Area 137 Fill Bank" (The Project).

Contract No: CV/2021/09 -Handling of Surplus Public Fill (2022-2023) - Tseung Kwan O (TKO) Area 137 Fill Bank" (The Project) ended on 03 August 2024 and was replaced by Contract No: CV/2023/10 -Handling of Surplus Public Fill (2024-2027) - Tseung Kwan O (TKO) Area 137 Fill Bank" (The Project), from 04 August 2024.

In accordance with the Condition 4 of Part C of Environmental Permit (No.: EP-210/2005/F) (the EP), an EM&A programme as set out in the Project Profile should be implemented. The EM&A programme requires environmental monitoring for air quality, water quality and environmental site inspections for air quality, noise quality, water quality, landscape and visual, and waste management.

Baseline monitoring was completed in May 2003 by Stanger Asia Ltd. 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 Tuen Mun Area 38 from July 2024 to September 2024.

2.0 PROJECT INFORMATION

2.1 Work Programme in this Reporting Quarter

Details of work programme are shown in Appendix G.

2.2 Project Organization and Management Structure

The project organization chart is shown in Appendix A.

2.3 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, marine water and environmental site inspections for air, marine water, 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:

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- Environmental mitigation measures, as recommended in the Project EIA study final report; and
- Environmental requirements in contract documents.

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

3.2 Monitoring Stations and Parameters

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

3.3 Monitoring Methodology and Calibration Details

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

3.4 Environmental Quality Performance Limits (Action/Limit Levels)

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

3.5 Environmental Mitigation Measures

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

4.0 MONITORING RESULTS

4.1 Air Quality

In accordance with the EM&A Manual, 1-hr and 24-hr TSP air quality monitoring are to be conducted three times and one time per six days correspondingly. In the reporting quarter, no exceedances of Action and Limit levels were recorded for 1-hr and 24-hr TSP monitoring. The monitoring trend of air quality during the reporting quarter are given in Appendix B.

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

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	July 2024	August 2024	September 2024
24-hr TSP	No of monitoring events	5	5	5
	Action Level	0	0	0
	Limit Level	0	0	0
1-hr TSP	No of monitoring events	15	17	13
	Action Level	0	0	0
	Limit Level	0	0	0

4.2 Noise

Since Lands Dept did not approve to carry out noise monitoring at their own area where the noise monitoring stations TM-N1 and TM-N2 located due to the security, noise monitoring carried out at two noise monitoring stations TM-RN1 and TM-RN2 (refer to the figure attached) from 18 December 2007.

No exceedance was recorded in this reporting quarter. The trend of noise monitoring during the reporting quarter is presented in Appendix C.



4.3 Marine Water Quality

In accordance with the Project Profile, impact marine water quality monitoring was conducted at two control monitoring stations (TM-FC1 and TM-FC2) and two impact monitoring stations (TM-FM1and TM-FM2) in this 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 the summary of marine water monitoring results, no exceedance of action and limit level was recorded in this quarter. Table 4.2 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 D.

Table 4.2 Total Number of Marine Water Quality Exceedances in this quarter

Parameter	Exceedance Level	July 2024	August 2024	September 2024
Number of monitoring day	/S	14	13	12
Dissolved Oxygen, DO	Action	0	0	0
(S&M)	Limit	0	0	0
Dissolved Oxygen, DO	Action	0	0	0
(B)	Limit	0	0	0
Turbidity	Action	0	0	0
	Limit	0	0	0
Suspended Solids, SS	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 I. Monitoring stations with significant difference (p<0.05) is summarized in Table 4.3.

Table 4.3 Summary of Statistically Significant Results of SS

Manitaring Station	Significant difference		
Monitoring Station	Mid-flood	Mid-ebb	
Designated Control Station	FC1	0	0
Designated Control Station	FC2	0	0
Designated Manitaring Station	FM1	0	0
Designated Monitoring Station	FM2	0	0

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.

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, during loading and unloading of material and for crushing plant, operation of automatic wheel washing facilities, dampening of fill material prior to handling or stockpiling, etc.

The major noise source was dump truck traffic in the Fill Bank. All site equipment and machinery were well maintained and no noise nuisance was observed during operating.

Drainage channels and wastewater treatment facilities were found maintained in good condition for merit function. The Contractor arranged site workers to clean up the silt and mud regularly.

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Although there were a few observations regarding accumulation of mud and silt inside the drainage channel and stagnant water, the Contractor rectified most of these problems. Besides, the Contractor was reminded to clear the accumulated mud and silt to avoid any blockage and clean the stagnant water properly.

Overall site area was found tidy and clean. The Contractor was reminded to collect and dispose of the general refuse and other C&D waste in a timely manner.

5.2 Status of Environmental Licensing and Permitting

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

Table 5.1Summary of environmental licensing and permit status						
Description	Permit No.		Period	Section		
		From	То			
Environmental Permit	EP- 210/2005/F	21/12/23		Issued		
Chemical Waste Producer	5296-421- C1186-33 (CV/2021/09) & 5296-421- C4992-01 (CV/2023/10)	20/04/17		Spent battery containing heavy metals and spent lubricating oil		
Effluent Discharge License	WT00042755- 2022 (CV/2021/09) & Pending for CV/2023/10	21/02/23	29/02/28	Effluent arising from vehicle washing and dust suppression activities and contaminated surface runoff treated by screening facilities and sedimentation tanks (sedimentation and chemical precipitation).		
Marine Dumping Permit	EP/MD/25-005	01/07/24	30/09/24	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	704260115821 (CV/2021/09) & 7051970 (CV/2023/10)	22/05/17	End of project			
Notification Pursuant to Section 3(1) of the Air Pollution Control (Construction Dust)	475208 (CV/2021/09) & 10008005 (CV/2023/10)	12/04/17	End of project			

5.3 Advice on Solids and Liquid Waste Management Status

Table 5.2 summarizes data on offsite waste disposal in the quarter.

Table 5.2Estimated Offsite Waste Disposal in the Reporting Quarter

Waste Type	July 2024	August 2024	September 2024

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Public Fill ('000m³)	0	0	0
C&D Waste (general refuse) ('000kg)	35.7	0 (for CV/2021/09) & 5.50 (for CV/2023/10)	5.50
Chemical Waste e.g. Waste oil (L) / Chemical Waste (kg)	0(L)	0(L)	O(L)

6.0 NON-COMPLIANCE OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS

6.1 Summary of Non-compliance

According to the monitoring results, no action and limit level exceedance was recorded in this quarter.

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

Since no non-compliance was recorded in this quarter, no review was required.

6.3 Summary of Actions Taken

Since no exceedance was recorded in this quarter, no further action was required.

6.4 Summary of Environmental Complaint, Notification of Summon and Successful Prosecution Handling

One complaint was received on 30 September 2024 from public against dust nuisance "投訴屯門38, 泥塵大,要求增加水車灑水。". Mitigation measure will be carried out to minimize the dust nuisance.

No notification of summon and prosecution with respect to environmental issues was received in this quarter.

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

Table 6.1 Summary of Environmental Complaints and Prosecutions

Period	Complaints logged	Summon served	Successful Prosecution
July 2024	0	0	0
August 2024	0	0	0
September 2024	1	0	0
Cumulative	9	0	0

7.0 COMMENTS, CONCLUSIONS AND RECOMMENDATION

Major activity in the Fill Bank was the import and dumping of fill materials in this quarter. 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-hr and 24-hr TSP monitoring in the reporting quarter.

According to the marine water monitoring results in this quarter, no exceedance of action and limit level was recorded.

The noise level measured at the monitoring station complied with the Limit Level of 65dB(A). No complaint was received regarding noise issue in this reporting quarter.



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One complaint was received on 30 September 2024. No prosecution or notification of summons was received in this quarter.

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

According to the environmental site inspections performed in the reporting 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;
- 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 bowser;
- 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 construction 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 and permanent desilting chambers regularly; 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 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

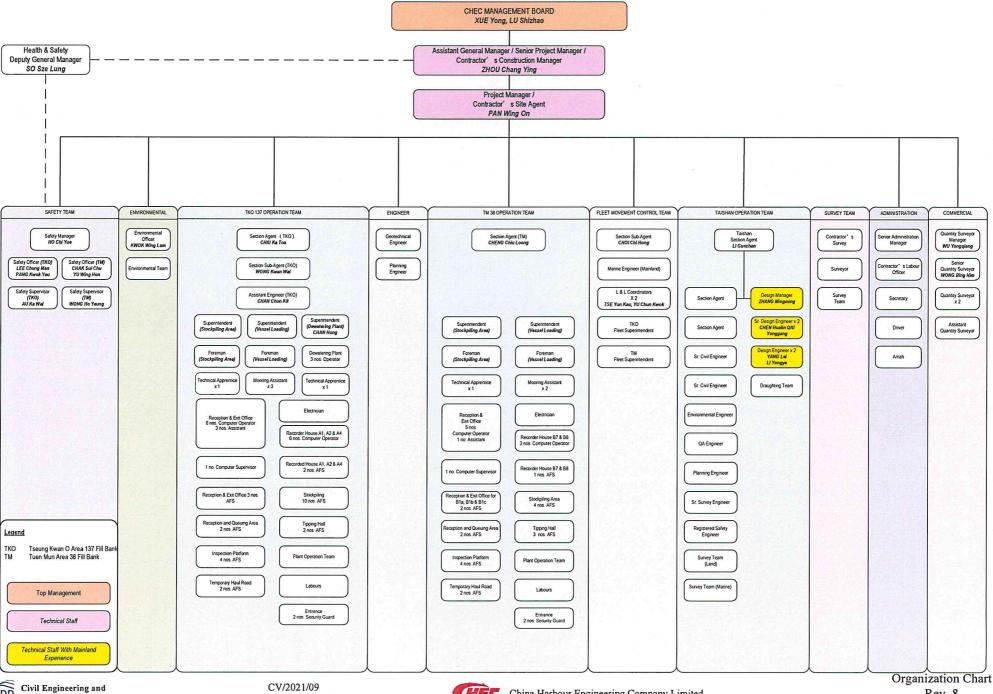
- Provide hydroseeding on the exposed slopes, on which the final profile has been formed;
- Erect all the site hoarding/chaining fences in accordance with agreed design at proper location;
 and
- Maintain the hydroseeding slopes in accordance with the Landscape Plan.

- END OF REPORT -



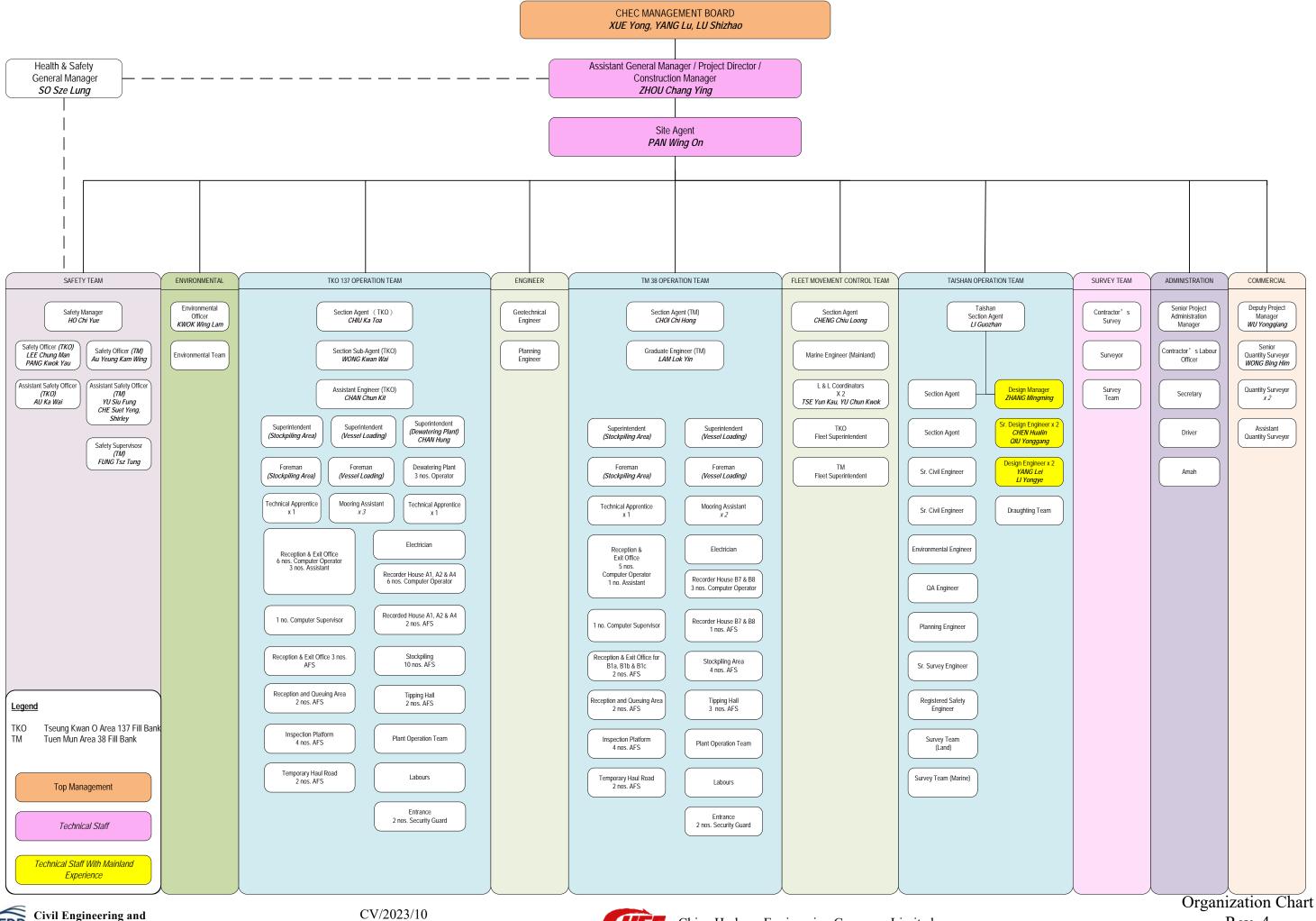
Appendix A

Organization Chart









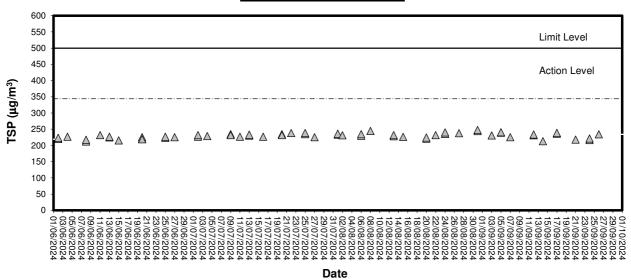
Handling of Surplus Public Fill (2024 - 2027)



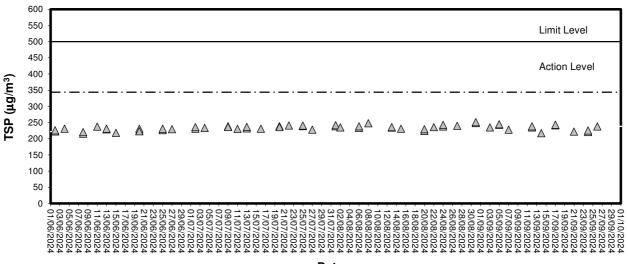
Appendix B Graphical Plots of Air Quality Monitoring Data



1-hour TSP level at TM-A1



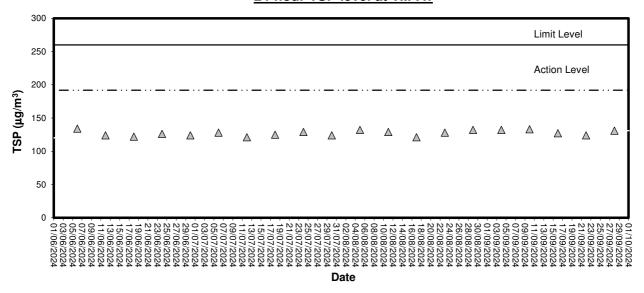
1-hour TSP level at TM-RA2



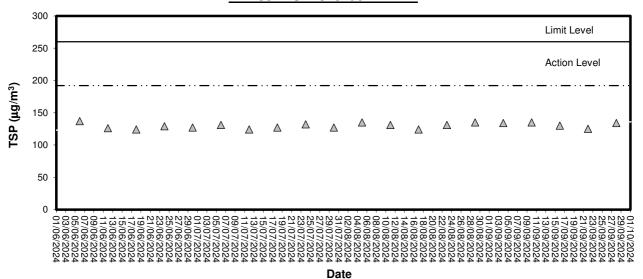
Date



24-hour TSP level at TM-A1



24-hour TSP level at TM-RA2

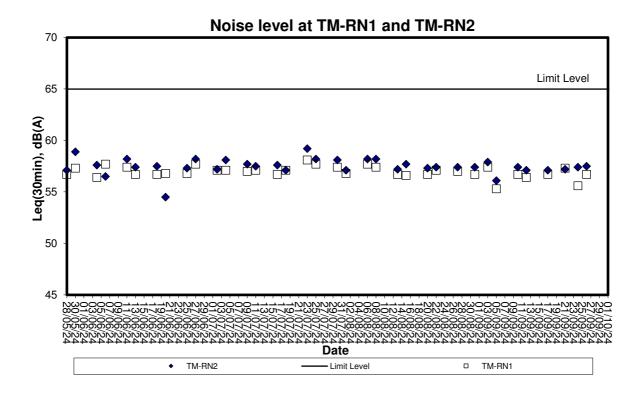




Appendix C Graphical Plots of Impact Noise Monitoring Data



Noise Monitoring (Day-time)



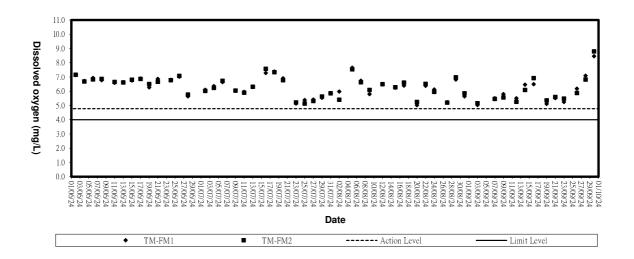


Appendix D

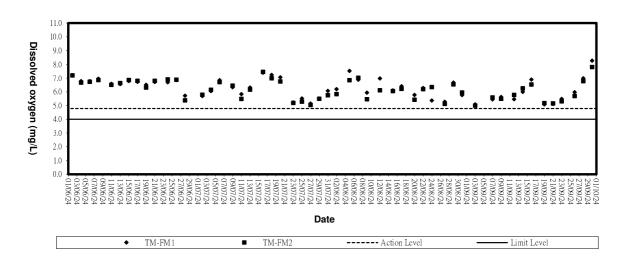
Graphical Plots of Impact Marine Water Quality Monitoring Data



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

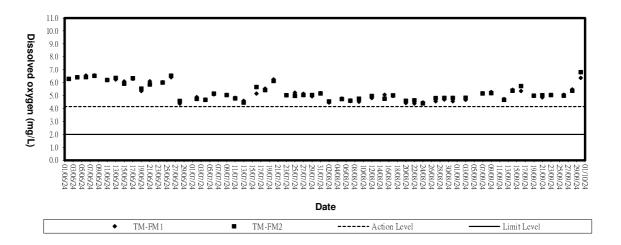


Dissolved Oxygen (Surface & Middle) at Mid-Ebb Tide

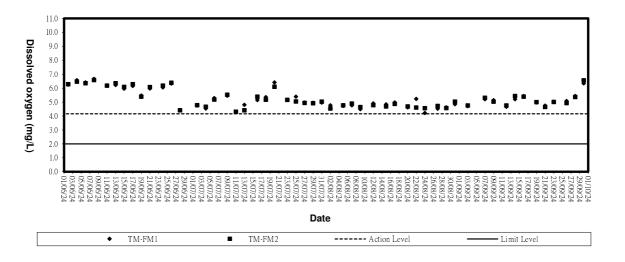




Dissolved Oxygen (Bottom) at Mid-Flood Tide

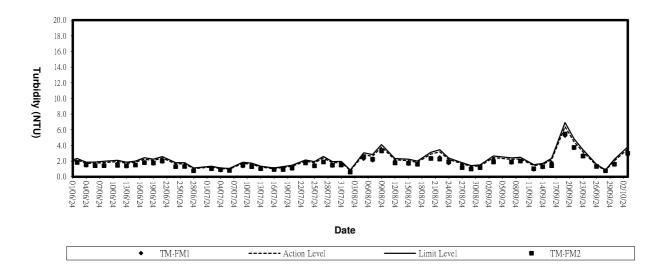


Dissolved Oxygen (Bottom) at Mid-Ebb Tide

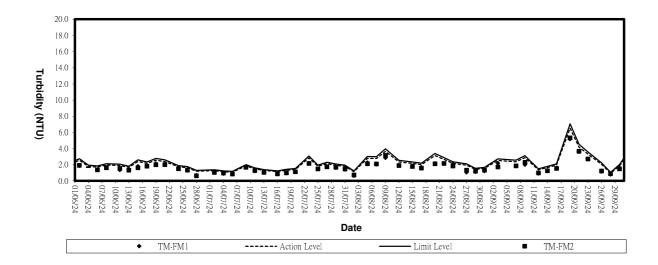




Turbidity (Depth-average) at Mid-Flood Tide

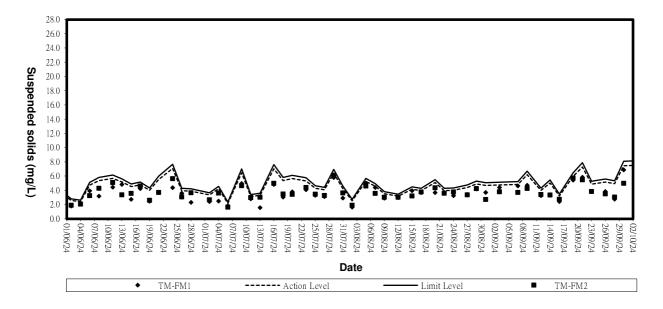


Turbidity (Depth-average) at Mid-Ebb Tide

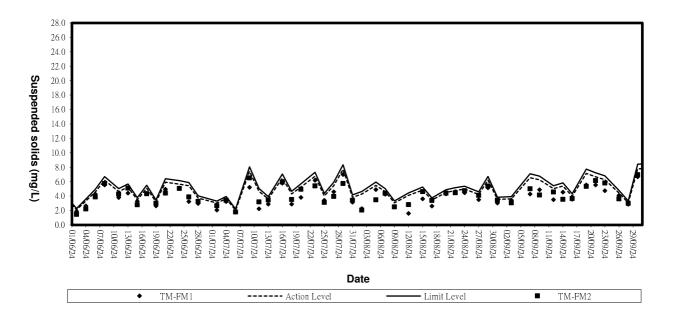




Suspended solids (Depth-average) at Mid-Flood Tide



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





Appendix E

Environmental Quality Performance (Action / Limit Levels)



Action and Limit Levels for 1-hour TSP and 24-hour TSP Monitoring

Monitoring Location	24-hr TS	P (μg/m³)	1-hr TSP (μg/m³)		
	Action Level	Limit Level	Action Level	Limit Level	
TM-A1	192	260	344	500	
TM-A2	192	260	344	500	

Action and Limit Levels for Marine Water Quality Monitoring

Parameter	Action Level	Limit Level	
DO (mg/L)	Surface & Middle	Surface & Middle	
	<4.78 mg/L	<4.00 mg/L	
	(5%-ile of baseline data)	(1%-ile of baseline data)	
	Bottom	Bottom	
	<u></u> <4.16 mg/L		
	(5%-ile of baseline data)		
SS (mg/L) (Depth-averaged)	>120% of the upstream control station's SS at the same tide on the same day	>130% of the upstream control station's SS at the same tide on the same day	
Turbidity (NTU) (Depth-averaged)	>120% of the upstream control station's turbidity at the same tide on the same day	>130% of the upstream control station's turbidity at the same tide on the same day	

Action and Limit Levels for Noise Monitoring

Time Period	Action *	Limit *
0700-1900 hrs on normal weekdays	When one documented complaint is received	65 dB(A)



Appendix F Event-Action Plans



	Contractor	Columbia	4 Beclify any unacceptable	practise 2. Amend working methods if appropriate	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.
ITY EXCEEDANCE		Ŧ	- 1	1. Notify Contractor	Confirm receipt of notification of failure in writing Notify the Contractor Ensure remedial measures properly implemented		Confirm receipt of notification of failure in writing Notify the Contractor Ensure remedial measures properly implemented
EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE	ACTION	IC(E)	H	Check contractor's working method Check contractor's working method	1. Check monitoring data submitted by the ET Leader 2. Check the Contractor's working method 3. Discuss with ET and Contractor on possible remedial measures 4. Advise the ER on the effectiveness of the proposed remedial measures 5. Supervise implementation of remedial measures	LIMIT LEVEL	1. Check monitoring data submitted by the ET Leader 2. Check Contractor's working method 3. Discuss with ET and Contractor on possible remedial measures 4. Advise the ER on the effectiveness of the proposed remedial measures 5. Supervise implementation of remedial measures
E		ET Leader		identify source, investigate the causes of exceedance and propose remedial measures inform ER, IC(E) and Contractor Repeat measurement to confirm finding Increase monitoring frequency to dally	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 confinues, arrange meeting with IC(E) and ER. If exceedance stops, cease additional monitoring.	indiam g	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 Sassess the effectiveness of Contractor's remedial actions and keep IC(E), EPD and ER informed of the results
EVENT				1. Exceedance for one sample	2. Exceedance for two or more consecutive samples		1. Exceedance for one sample



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EVENT			EVENT/ACTION PLAN FOR AIR QUALITY EXCEEDANCE	LITY EXCEEDANCE		
			ACTION			
	_	ET Leader	IC(E)	ER	_	Contractor
2. Exceedance	+-	1. Identify source, investigate the causes	1. Discuss amongst ER, ET and Contractor on	 Confirm receipt of notification of failure in writing 		 Take immediate action to avoid further exceedances
for two or more		of exceedance and propose remedial measures	2. Review Contractor's remedial actions	2. Notify Contractor	2	Submit proposals for remedial
consecutive	~), ER, EP	whenever necessary to assure their offectioness and advise the FR accordingly	 in consultation with the Contractor on 		working days of notification
samples	mi —	Repeat measurement to continuing	3. Supervise the implementation of remedial	the remedial measures to be	က်	Implement the agreed
7.1C	4		measures	implemented		proposais Decibal proposale if
	ri,			4. Ensure remedia measures are numerly implemented	-	problem still not under control
		working procedures to determine		5. If exceedances continues,	5	Stop the relevant activity of
	(0)			consider what portion of the		works as determined by the
		discuss the remedial actions to be		work is responsible and instruct the Contractor to stop		abated
	۲.	taken Assess effectiveness of Contractor's		that portion of work until the		•
		remedial actions and keep IC(E), EPD		exceedance is abated		
- motorb	00	If exceedance stops, cease additional				
	_	monitoring			-	

		Contractor		Take immediate action to avoid further exceedance. Submit proposals for remedial actions to IC(E) within 3 working days of notification. Implement the agreed proposals. Resubmit proposals if problem still not under control. Stop the relevant activity of works as determined by the ER until the exceedances is abated.
		4	-, -,	÷ √ 0, 4, 10,
DISE EXCEEDANCE	•	ER	Confirm receipt of notification of failure in writing. Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. Ensure remedial measures are properly implemented.	Confirm receipt of notification of failure in whiting. Notify the Contractor. Require the Contractor to propose remedial measures for the analysed noise problem. Ensure remedial measures are propenly implemented. If exceedances continue, consider what activity of the work is responsible and instruct the Contractor to stop that activity of work until the exceedances is abated.
% NC	×		+ 4 4 +	t 4 ti
EVENT/ACTION PLAN FOR NOISE EXCEEDANCE	ACTION	IC(E)	Review the analysed results submitted by the ET. Review the proposed remedial measures by the Contractor and advise the ER accordingly. Supervise the implementation of remedial measures.	Discuss amongst the ER, the ET Leader and the Contractor on the potential remedial actions. Review the Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. Supervise the implementation of remedial measures.
			- 2 %	
		ET Leader	Notify the IC(E) and the Contractor. Carry out investigation. Report the results of investigation to the IC(E) and the Contractor. Discuss with the Contractor and formulate remedial measures. Increase monitoring frequency to check mitigation effectiveness	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 of the exceedance due to the construction works stops, cease additional manufactions.
-	-	Ь.		
	EVENT		Action Level	Level



) <u>-</u>	Check monitoring data submitted by ET assessment if confirm ET assessment if exceedance is due / not due to the works. Discuss with ET, ER and contractor on the mitigation measures mitigation measures whenever necessary to ensure their effectiveness and advise the ER accordingly. Supervise the ER accordingly Supervise the implementation of mitigation measures.
띬	ł	_	
R QUALITY EXCEEDAN		ER	Notify EPD and other relevant governmental agencies in writing within 24 hours of the learning administration of the exceedance Discuss with IEC, ET and Contractor on the proposed mitigation measures; Require contractor to propose remedial measures for the analysed problem if related to the construction works. Ensure remedial measures are properly implemented Assess the effectiveness of the mitigation measure.
ATE	z		f 6 6 4 m
EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE	ACTION	Contractor	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 of 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 6. Discuss with ET, iEC and ER and propose mitigation measures to IEC and ER if exceedance is due to the construction works if working days of identification of an exceedance 7. Implement the agreed mitigation measures within reasonable time scale
EVENT			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 if exceedance is due to contractor of exceedance is due to contractor of exceedance is due to contractor of exceedance is due to the construction works 7. Discuss mitigation measures with Contractor of exceedance is due to the construction works within 4 working days 8. Repeat measurement on next day of exceedance is exceedance is
Event			Action level being exceeded by one sampling day



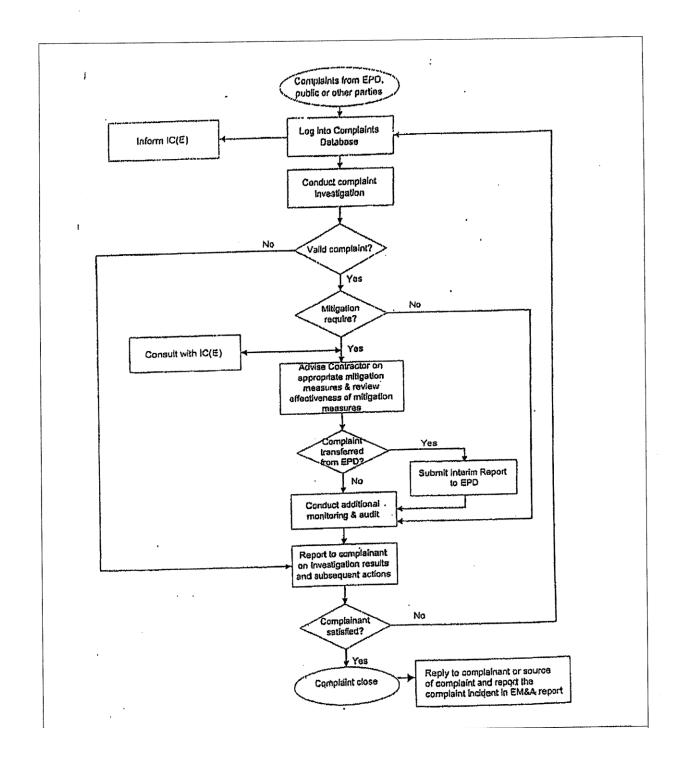
Event		ANA MANAGEMENT OF THE PROPERTY AND	Ш	EVENT AND ACTION PLAN FOR WATER QUALITY	2	R WATER QUALITY		
opo cioo≅				ACTION	z			
20 / 20 lang (10	ŀ	ET Leader		Contractor		ER		EC
Action level	-	Identify source(s) of impact:	-	Notify IEC and ER in writing	÷	Notify EPD and other relevant	÷	Check monitoring data
hoing				within 24 hours of		governmental agencies in		submitted by E1
avceeded by	i	fo confirm		identification of exceedance		writing within 24 hours of the	તં	Confirm ET assessment
more than one	C.		2	Rectify unacceptable practice;		identification of the		if exceedance is due /
Coprodutive	<u>;</u>		'n	Check all plant and		exceedance		not due to the works
compling days		identification		equipment	2	Discuss with IEC, ET and	က	Discuss with ET, ER and
sampling days	4		4	Consider changes of working		Contractor on the proposed		Confractor on the
	:			methods:		mitigation measures;		mitigation measures.
		Contractor's working methods:	ທ່	•	က	Require contractor to propose	4	Review confractor's
	ĸ			investigation to IEC and ER		remedial measures for the		mitigation measures
	i cc			within 3 working days of the		analysed problem if related to		whenever necessary to
				identification of an		the construction works		ensure their
		within 3 working days of		exceedance	4.	Ensure remedial measures		effectiveness and advise
		identification of exceedance	6			are properly implemented	L.	The ER accordingly
		and advise contractor if		and propose mitigation		Assess the effectiveness of	က် ——	Assess are effectiveness
ndyschi-d		exceedance is due to		measures to IEC and ER		the mitigation measure		militation modelines
у дау с А		contractor's construction		within 4 working days of				mogador mogadica.
				identification of an				
gg-exp-ex-	7			exceedance				
		with IEC and Contractor within	<u>`</u>	Implement the agreed				
		4 working of identification of		minganon measures wantin				
		an exceedance		reasonable time scale		•		
	ထ်	 Ensure mitigation measures 						
ancombrood		are implemented;						
	တ်							
		monitoring frequency to daily;						
	-	Repeat measurement on next						
		day of exceedance.			_		_	

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<u></u>	CL		1. Check monitoring data	•••	2. Confirm E1 assessment	II exceedance is one	-	3. Discuss with E1, EK and		A Beview proposals on	militation measures	submitted by Confractor	and artise the ER	accordingly	5 Assess the effectiveness		mitigation measures													
NTER QUALITY EXCEEDANG		ER	 Notify EPD and other relevant 	governmental agencies in	writing within 24 hours of	identification of exceedance	Discuss with IEC, ET and	Contractor on the proposed	_	3. Request Contractor to crucally	-	4. Ensure refriedal medauca		5. Assess the endeaveness of	me impensement magazin	illedsules.												unces en		
EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE	ACTION	Contractor	1 Notify IEC and ER in writing;	within 24 hours of the	identification of the	exceedance		3. Check all plant and	equipment;	 Consider changes of working 		5. Submit the results of the	investigation to IEC and ER	within 3 working days of the	identification of an		6. Discuss with E1, IEC and ER	and propose mitigation	measures to IEC and ER	Within 4 working days of the	pecialicator or all	7. Implement the agreed	mitigation measures within	reasonable time scale						
EVEN		ET Leader		to confirm findings:	Identify	2 Notify Contractor in writing	3. totaly collection in ming	identification of the	exceedance	4. Check monitoring data, all	plant, e	Contractor's working methods;	_	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	-	with IFC FR and Contractor	within 4 working of	identification of an	exceedance	8. Ensure mitigation measures	are implemented;	lncrease the monitoring	frequency to daily until no	exceedance of Limit Level.
Event				Limit level	Deling Description by	exceeded by	one samping	oay										NAME OF THE PARTY	gerêşênik	au au	- Williams	5m-10	0,000				*******			

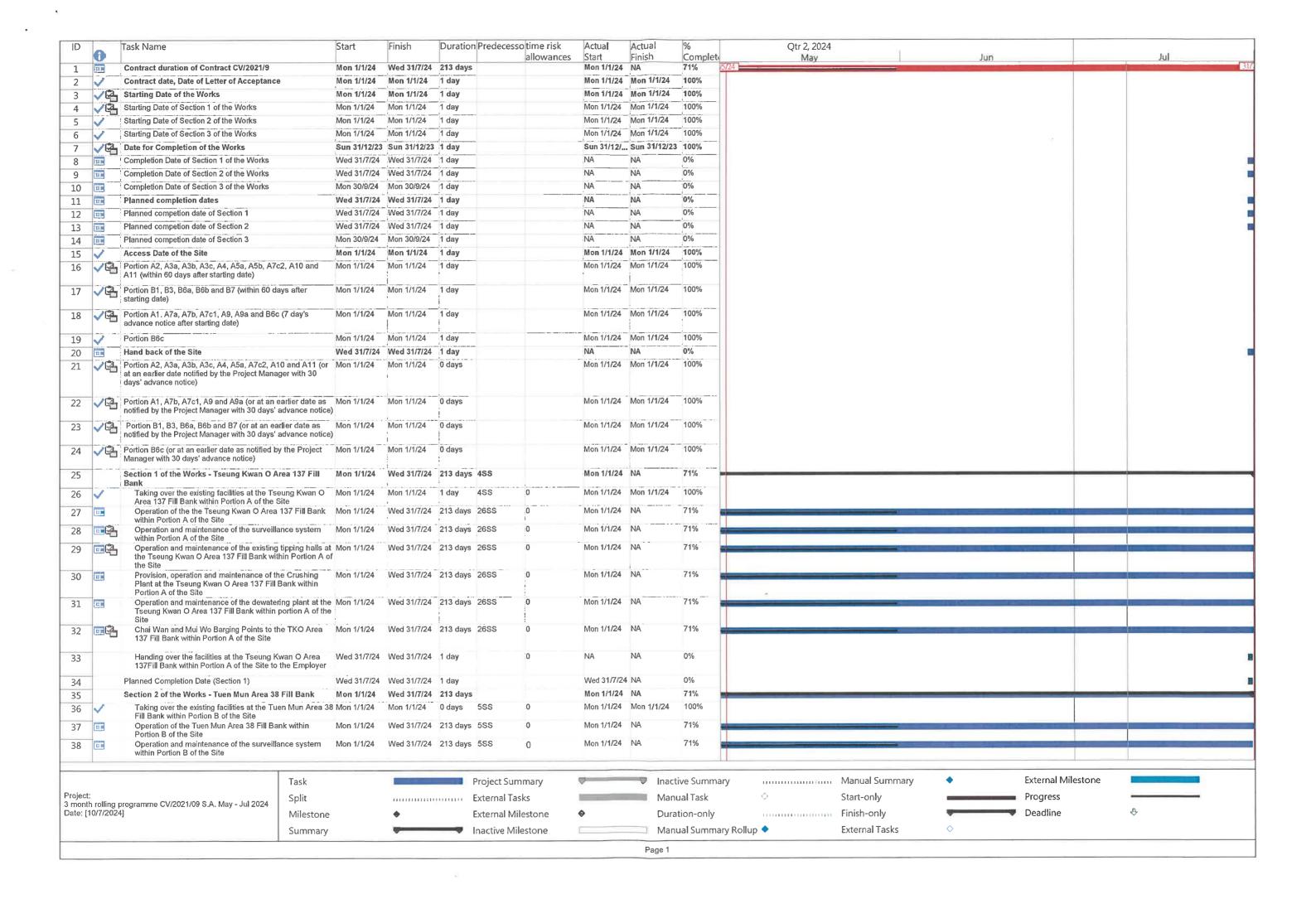


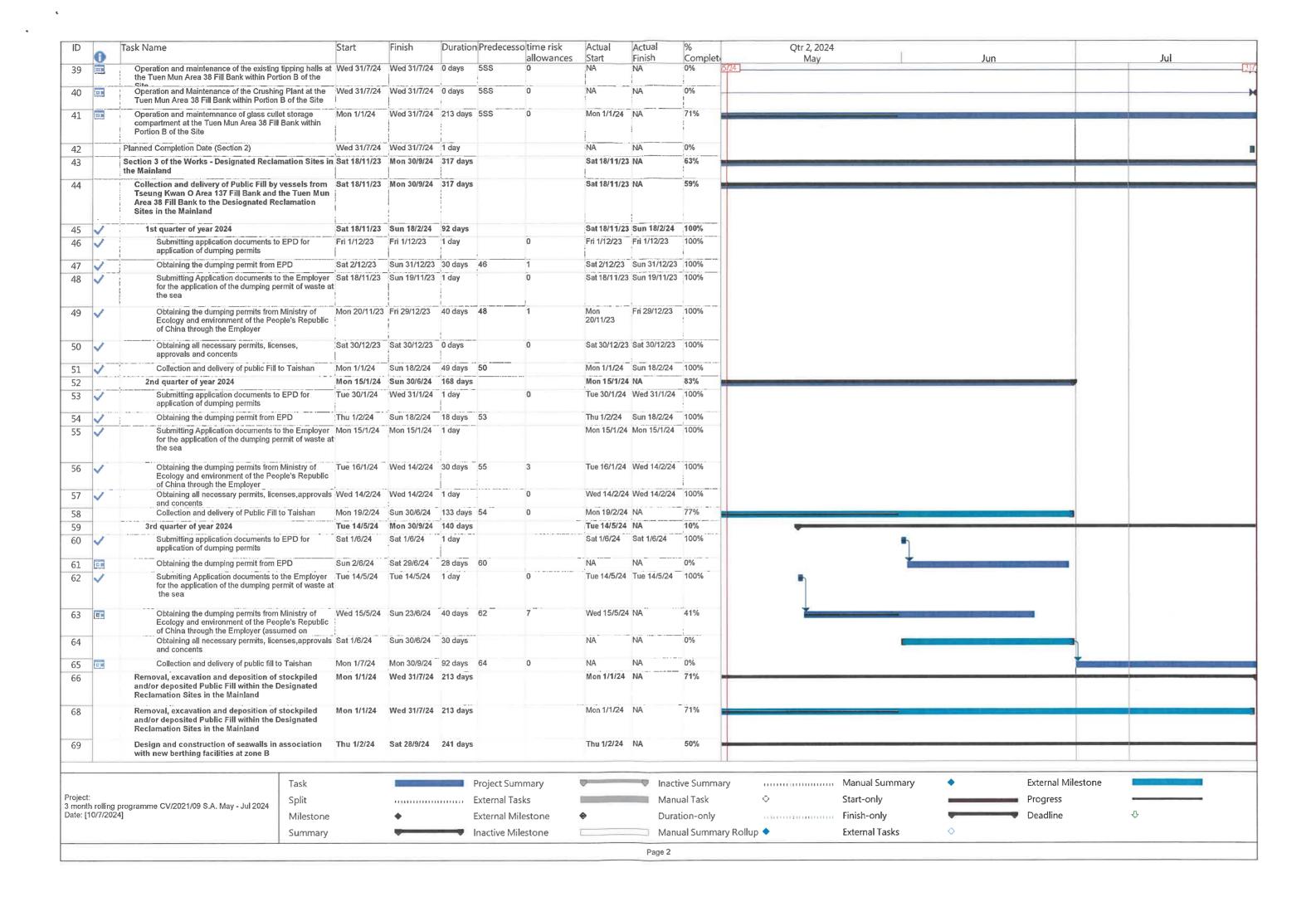
																	- h							-	YFORE	= >*****	r-four-rec	MITTER DE		******	٦
		EC	 Check monitoring data 	submitted by ET	Confirm ET assessment		not due to the works	3 Discuss with ER, ET and		militation modelines	Dordow proposals of	t. Neview proposals on	mitigation measures	submitted by Contractor	and advise the ER	accordingly.	Assess the effectiveness		Or the Report Control	minganori measures.											
빙	Ì	-				_			_	_	<u>~</u>	-					-														1
R QUALITY EXCEEDAN		ER	Notify EPD and other relevant	governmental agencies in	writing within 24 hours of	identification of exceedance	Discuss with IEC ET and	Contractor on the proposed	Collusion on the proposed	mitigation measures;	Request Contractor to cruically	review the working methods,	Ensure remedial measures	are properly implemented	Assess the effectiveness of	the implemented mitiration	tile inipicine medical	isanspall	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.								
EVENT AND ACTION PLAN FOR WATER QUALITY EXCEEDANCE	z		-	:			ç	4			ઌ૽		6		4	:			က်												4
	ACTION	Contractor	Notify ED and IEC in writing	within 24 bours of the	Willin Z4 Hould of the	toenulication of the	_	Rectify unacceptable practice;		equipment;	Consider changes of working	methods;	S. Suhmit the results of the		within 3 working days of the	Sim to go will a will be will	identification of all	exceedance	Discuss with ET, IEC and ER	and propose mitigation	measures to IEC and ER	within 4 working days;	Implement the agreed	mitigation measures within	reasonable time scale	As directed by the Engineer,	to slow down or to stop all or	part of the marine work or	construction actives.		
		-	ľ	_							_																			۔۔۔۔۔	٦
		ET open	TI FEBRA	Repeat in-situ measurement			Notify Contractor in writing	within 24 hours of	identification of the	exceedance			Contractor's working methods:				investigation to the Contractor	within 3 working days of	identification of exceedance	and advise contractor if	overandance is drie to	contractor's construction	WORKS	Discuss mitigation measures	with IEC. ER and Contractor,	Ensure			frequency to daily until no	exceedance of Limit Level for	two consecutive days.
				-:		7	е;				4			ı	r,	9								7.		φ <u>.</u>		တ်			_
Event			The same of the sa	Limit Level	being	exceeded by	more than one	consecutive	sampling days	6 m.d.																	-	ž ko úli		ere de	

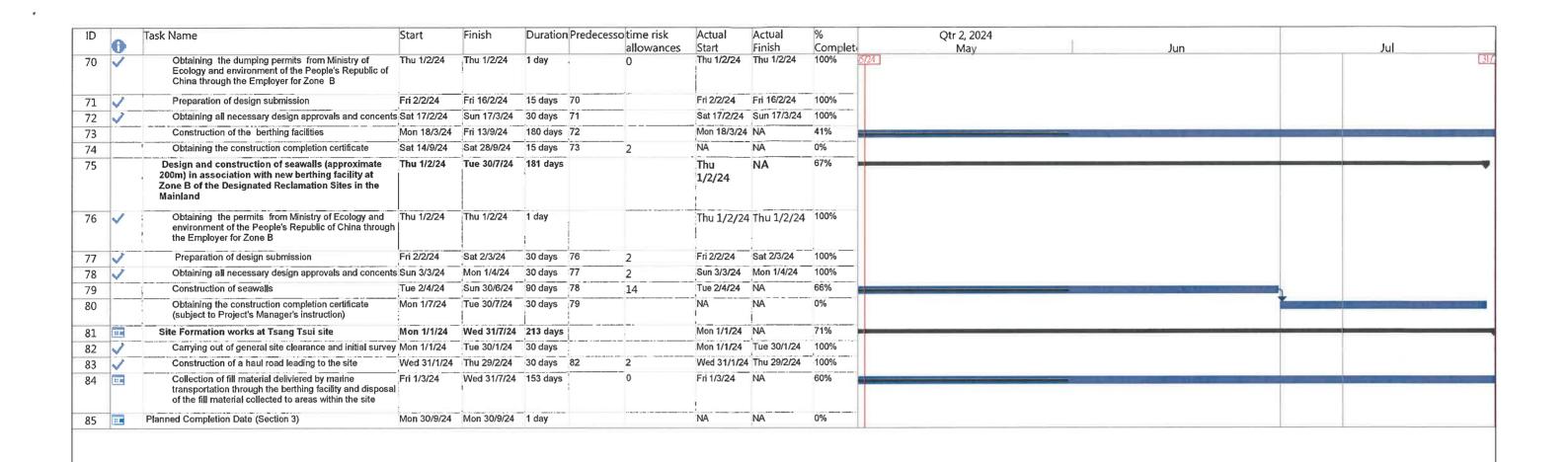


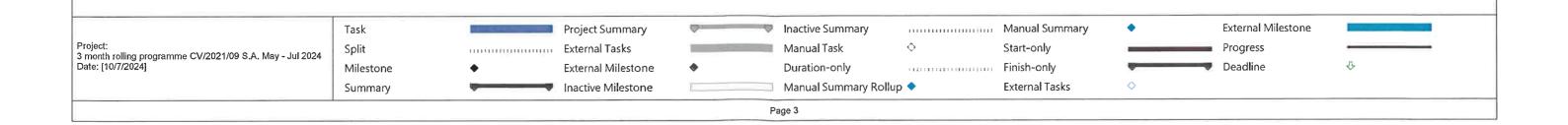


Appendix G Work Programme

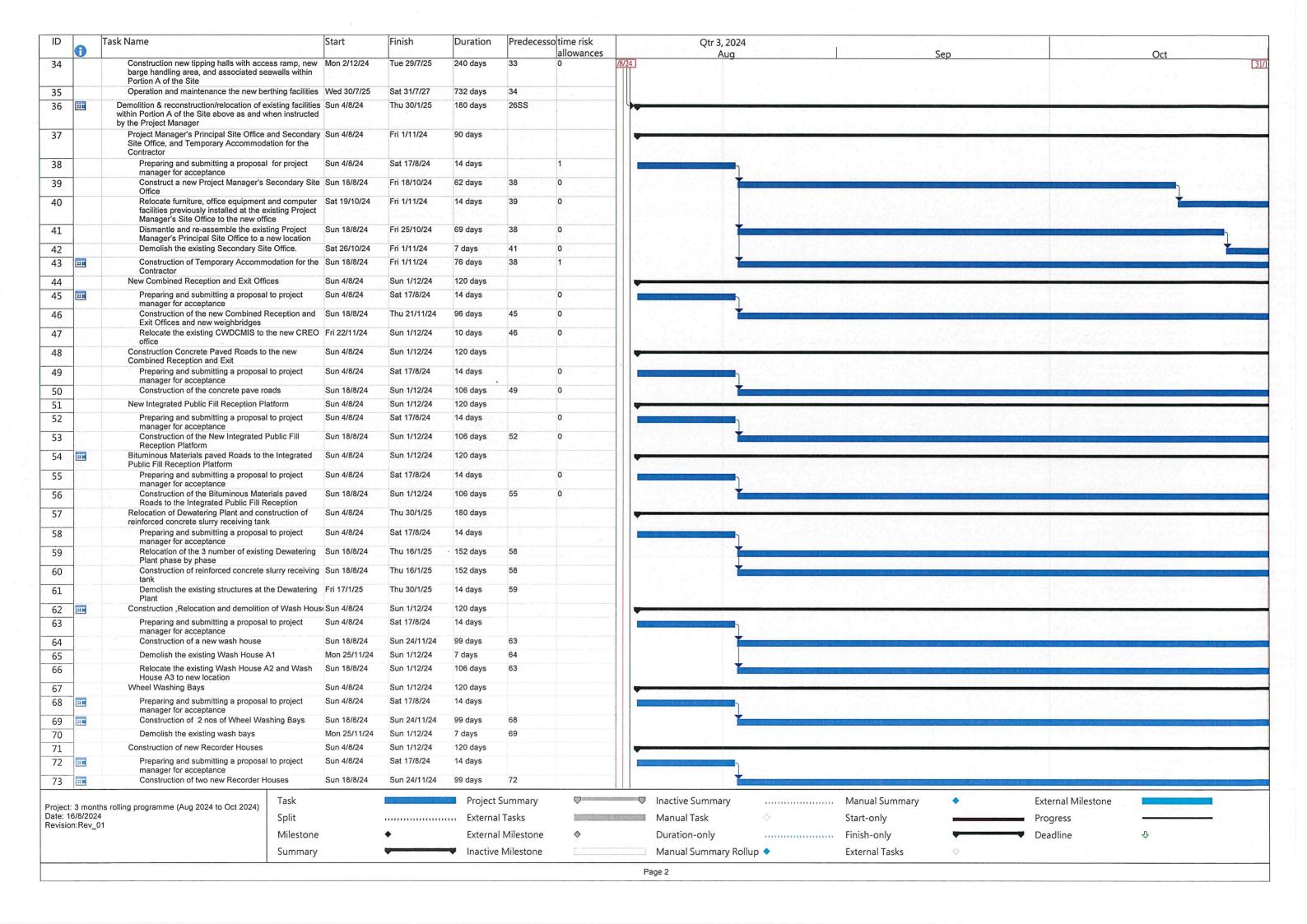


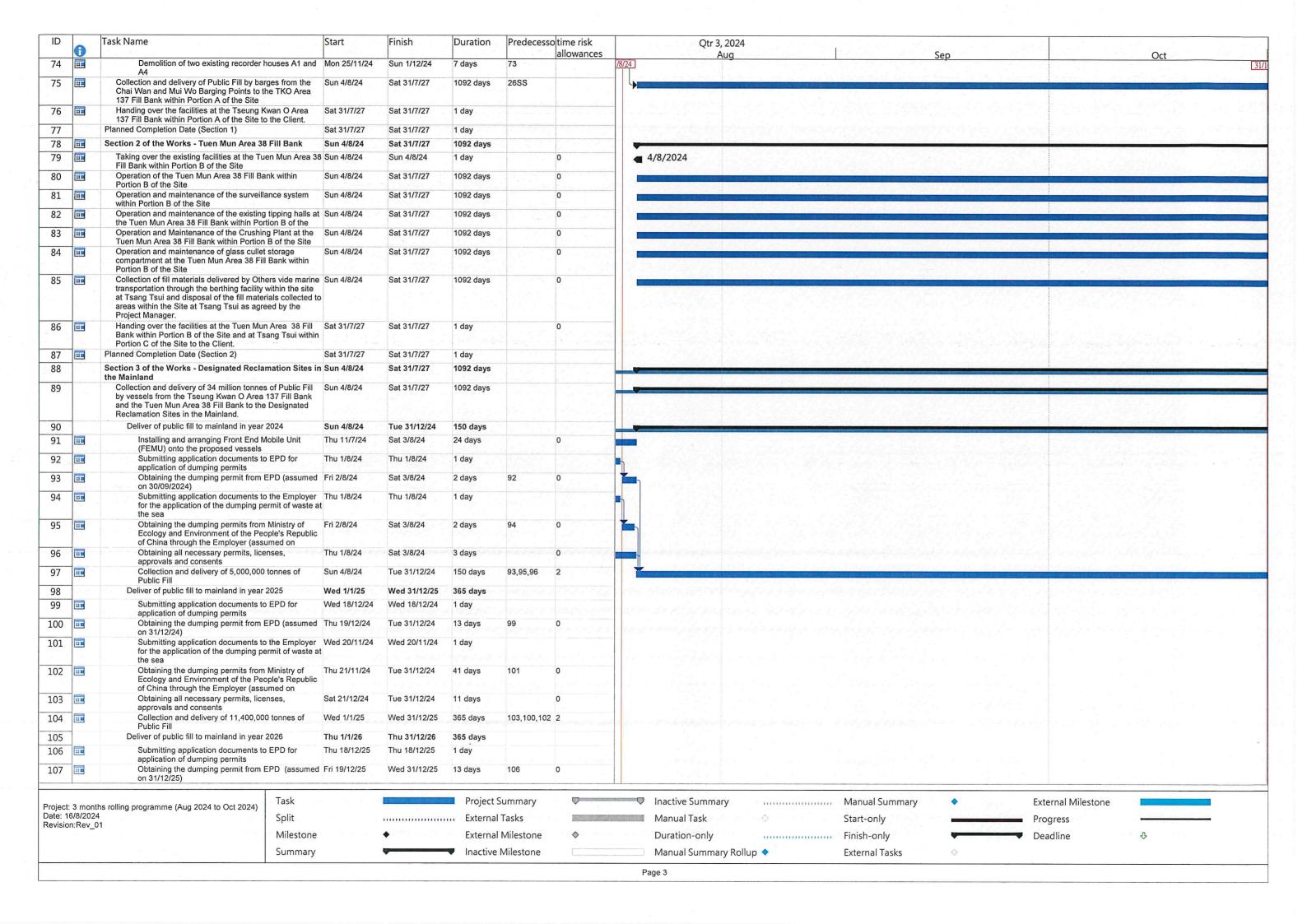






ID (0	Task Name	Start	Finish	Duration	Predecesso	allowances	Qtr 3, 2024 Aug	Sen	Oct
1		Contract duration of Contract CV/2023/10	Sun 4/8/24	Sat 31/7/27	1092 days			/8/24	, <u>э</u> ср	- Oct
2 1		Contract date, Date of Letter of Acceptance	Thu 11/7/24	Thu 11/7/24	1 day					
	100	Starting Date of the Works	Sun 4/8/24	Sun 4/8/24	1 day			4/8/2024		
		Starting Date of Section 1 of the Works	Sun 4/8/24	Sun 4/8/24	1 day			4/8/2024		
	■ _	Starting Date of Section 2 of the Works	Sun 4/8/24	Sun 4/8/24	1 day			4/8/2024		
5	III	Starting Date of Section 3 of the Works	Sun 4/8/24	Sun 4/8/24	1 day			4/8/2024		
		Date for Completion of the Works	Sat 31/7/27	Sat 31/7/27	1 day					
	III	Completion Date of Section 1 of the Works	Sat 31/7/27	Sat 31/7/27	1 day	4SF+1092 da				
	III	Completion Date of Section 2 of the Works	Sat 31/7/27	Sat 31/7/27	1 day	5SF+1092 da				
		Completion Date of Section 3 of the Works	Sat 31/7/27	Sat 31/7/27	1 day	6SF+1092 da				
-		Planned completion dates	Sat 31/7/27	Sat 31/7/27	1 day					
		Planned completion date of Section 1	Sat 31/7/27	Sat 31/7/27	1 day					
		Planned completion date of Section 2	Sat 31/7/27	Sat 31/7/27	1 day					열 보다 살아왔다. 이번 없는 그 그리
		Planned completion date of Section 3	Sat 31/7/27	Sat 31/7/27	1 day					
		Access Date of the Site	Sun 4/8/24	Sun 4/8/24	1 day			4/8/2024		
		Portion A2, A3a, A3b, A3c, A4a1, A4a2, A4b1, A4b2, A		Sun 4/8/24	1 day			4/8/2024		
		A5b, A5c, A7a, A7b, A7c and A10 (within 60 days after starting date or later date notified by the Project Manag with 2 days advance notice)	r ger					4,5,2521		
7		Portion B1, B3, B6a, B6b, B7 and C (within 60 days aff starting date or later date notified by the Project Manag with 2 days advance notice)	ter Sun 4/8/24 ger	Sun 4/8/24	1 day			4/8/2024		
8	■	Portion A1, A9, A9a and B6c (7 day's advance notice a starting date)	after Sun 4/8/24	Sun 4/8/24	1 day			4/8/2024		
)	H	Hand back of the Site	Sat 31/7/27	Sat 31/7/27	1 day					
		Portion A2, A3a, A3b, A3c, A4a1, A4a2, A4b1, A4b2, A5b, A5c, A7a, A7b, A7c and A10 of the site on the completion date of the section 1 of the works (or at an date notified by the Project Manager with 30 days' advanotice)	earlier	Sat 31/7/27	1 day					
	Q	Portion A1, A9 and A9a of the site if the Contractor has accessed to them ,on the completion date of the section the works (or at an earlier date as notified by the Proj	on 1 of	Sat 31/7/27	1 day					
2		Manager with 30 days' advance notice) 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 date as notified by the Project Manager with 30 days'		Sat 31/7/27	1 day					
3		advance notice) Portion B6c of the site if the Contractor has accessed them, on the completion date of the section 2 of the wo (or at an earlier date as notified by the Project Manage 30 days' advance notice)	orks	Sat 31/7/27	1 day					
ı		Portions C of the Site on the completion date of the se of the works (or at an earlier date as notified by the Pro Manager with 30 days' advance notice)		Sat 31/7/27	1 day					
5		Section 1 of the Works - Tseung Kwan O Area 137	Fill Sun 4/8/24	Sat 31/7/27	1092 days	4SS		\		
5	1111	Bank Taking over the existing facilities at the Tseung Kwa Area 137 Fill Bank within Portion A of the Site	an O Sun 4/8/24	Sun 4/8/24	1 day	4SS	0	4/8/2024		
	n e	Operation of the Tseung Kwan O Area 137 Fill Ban	sun 4/8/24	Sat 31/7/27	1092 days	26SS	0	+		
-	(C)	within Portion A of the Site Operation and maintenance of the surveillance syst	tem Sun 4/8/24	Sat 31/7/27	1092 days	26SS	0			
		within Portion A of the Site								
)	□	Operation and maintenance of the existing tipping h the Tseung Kwan O Area 137 Fill Bank within Portion the Site	on A of	Sat 31/7/27	1092 days		0			
	5.0	Provision, operation and maintenance of the Crushi Plant at the Tseung Kwan O Area 137 Fill Bank with Portion A of the Site	hin	Sat 31/7/27	1092 days		0			
1	шв	Operation and maintenance of the dewatering plant Tseung Kwan O Area 137 Fill Bank within portion A Site Facility to the Tseung Kwan O Area 137 Fill Ba within Portion A of the Site.	of the	Sat 31/7/27	1092 days	26SS	0			
2	0.0	Design, construction, operation and maintenance or nos. new tipping halls with access ramp, new barge handling area, and associated seawalls within Porti-	on A of	Sat 31/7/27	1092 days	26SS				
3	•	the Site as and when instructed by the Project Mana Submission of design proposals to Project Mana		Sun 1/12/24	120 days		0			
		acceptance								
		T-d.			Den: + f	Cumman:		□ Inactive Summary	Manual Sumarran	Sytamal Milestons
ject: 3	3 month	s rolling programme (Aug 2024 to Oct 2024)		Anna San Maria San San San San San San San San San Sa	Project S	Summary		□ Inactive Summary	Manual Summary	xternal Milestone
te: 16/	/8/2024	Split			External	Tasks		Manual Task 💠	Start-only	Progress
ision:	:Rev_01	Miles	stone	•	External	Milestone	♦	Duration-only	Finish-only	Deadline ↔
		100000000000000000000000000000000000000					_	· · · · · · · · · · · · · · · · · · ·	,	
		Sumi	mary		Inactive	Milestone	Ĺ	Manual Summary Rollup 🔷	External Tasks 🔷	





ID	A .	Task Name	Start	Finish	Duration	Predecess			Qtr 3, 20					2	
108		Submitting application documents to the Emp		Thu 20/11/25	1 day	1 8 m - 2 .	allowances	/8/24	Aug			Sep		Oct	
109		for the application of the dumping permit of we the sea Obtaining the dumping permits from Ministry of		Wed 31/12/25	41 days	108	0								
. P 19.		Ecology and Environment of the People's Rep of China through the Employer (assumed on	public	1-12-15-1-1			the same and								
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 Public Fill		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	HH	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 (ass on 31/12/26)	sumed Sat 19/12/26	Thu 31/12/26	13 days	113	0								
115		Submitting application documents to the Emp for the application of the dumping permit of wa the sea		Fri 20/11/26	1 day										
116		Obtaining the dumping permits from Ministry of Ecology and Environment of the People's Rep	oublic	Thu 31/12/26	41 days	115	0								
117		of China through the Employer (assumed on Obtaining all necessary permits, licenses,	Mon 21/12/26	Thu 31/12/26	11 days		0								
118		approvals and consents Collection and delivery of 6,200,000 tonnes of Public Fill	f Fri 1/1/27	Sat 31/7/27	212 days	114,116,117	2								
119		Removal, excavation and deposition of stockpiled an deposited Public Fill within the Designated Reclama		Sat 31/7/27	1092 days			-							
120		Sites in the Mainland Removal, excavation and deposition of stockpiled	d Sun 4/8/24	Sat 31/7/27	1092 days		0								× 1125
121	7 2 3	and/or deposited public fill Operation and maintenance of the existing navigation		Sat 31/7/27	1092 days									era a litera est byear un	
		channel and turning basins in association with the elementhing facility at Zone E of the Designated Reclam Sites in the Mainland.													
122		Operation and maintenance of the existing navig- channel and turning basins	ation Sun 4/8/24	Sat 31/7/27	1092 days		0	NA.							SATIS
123		Design, construction, operation and maintenance of new navigation channel and turning basins in associ with the new berthing facility at Zone B of the Design Reclamation Sites in the Mainland.	iation	Sat 31/7/27	1092 days			-							
124		Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republ China through the Employer for Zone B	Sun 4/8/24 ic of	Sun 4/8/24	1 day		0								
125		Design submission of new navigation channel an turning basins and obtaining all necessary design approvals and consents	d 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							AND PROCEEDINGS AND ADDRESS OF		e esta
127		Construction of the new turning basins	Tue 3/12/24	Fri 31/1/25	60 days	126SS+90 d									39 75
128		Obtaining the construction completion certificate new navigation channel and turning basins		Sat 1/2/25	1 day	127	0								
129		Operation and maintenance of the new navigatio channel and turning basins		Sat 31/7/27	910 days	128	0	E Karakan							
130		Design, construction, operation and maintenance of berthing facility at Zone B of the Designated Reclam Sites in the Mainland.		Sat 31/7/27	1092 days										
131		Obtaining the dumping permits from Ministry of Ecology and environment of the People's Republ China through the Employer for Zone B	Sun 4/8/24 ic of	Sun 4/8/24	1 day										
132		Design submission of new berthing facilities and obtaining all necessary design approvals and cor	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	la 1)				10000
134		Construction of rubber mound foundation	Fri 4/10/24	Wed 1/1/25	90 days	132SS+60 d	la 2			0 10	2"SYCHEAR'S TO				
135		Installation of cassion units and coping units	Sun 3/11/24	Fri 31/1/25	90 days	132SS+90 d					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
136		Backfilling and in-situ concreting	Tue 3/12/24	Fri 31/1/25	60 days	132SS+120		7 2							
137		Installation of rubber fenders and bollards	Thu 2/1/25	Fri 31/1/25	30 days	132SS+150						W W- 1			
138		Obtaining the construction completion certificate berthing facilities		Sat 1/2/25	1 day	137	0	1.3							
139		Operation and maintenance of new berthing facil		Sat 31/7/27	910 days	138									
140	110	Design and construction of seawalls (approximate 4,400m) in association with new berthing facility at 2 of the Designated Reclamation Sites in the Mainland	Sun 4/8/24 Zone B	Sat 31/7/27	1092 days		a storter			- 1		<u> </u>			
		· · · · · · · · · · · · · · · · · · ·		=	1				- 5	,100					
		ns rolling programme (Aug 2024 to Oct 2024)		19939755679	Project S	Summary	\bigcirc	▽ Ina	active Summary		Manual Summary	• • • • • • •	External Milestone		5
Date: 16 Revisio	5/8/2024 n:Rev_01	Split 1		minuminumi	External	Tasks		M	anual Task	- · ·	Start-only		Progress		
		Miles	tone	•	External	Milestone	\Diamond	Du	uration-only	=	Finish-only		Deadline	Ŷ	
		Sumn	nary		Inactive	Milestone		M	anual Summary F	Rollup 🔷	External Tasks	\Diamond			
									4						

ID 🕣	Task Name	Start	Finish	Duration Prede	ecesso time risk	Qtr 3, 2024	The second secon	Na a		
			1.54.3	7 P W - 27 B - 2	allowances	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			1 day	0 /8/24]					31/1
2	Design submission of seawalls and obtaining all necessary design approvals and consents	Mon 5/8/24	Tue 3/9/24	30 days 141	0					
3	Construction of seawalls (approx. 4400m)	Wed 4/9/24		1060 days 142	2					Optoble in the second
14	Obtaining the construction completion certificate of seawalls	Sat 31/7/27	Sat 31/7/27	1 day 143	0					
5 🔠	Planned Completion Date (Section 3)	Sat 31/7/27	Sat 31/7/27	1 day		and the second of the second o				
							마이의 기계 등에 발생하면 되고 있는 것같이 하는 것도 같다. 하는 대통령 전혀 하는데, 그는 대통령 영화, 그런 기술, 다			
	Tast			Project Summer		Inactive Summary	Manual Summary	Future of Millert		
oject: 3 mor	nths rolling programme (Aug 2024 to Oct 2024) Task			Project Summar	y	Inactive Summary		External Milestone		
roject: 3 mor ate: 16/8/202 evision:Rev_	24 01			External Tasks		■ Manual Task	Start-only	Progress		
roject: 3 mor ate: 16/8/202 evision:Rev_	nths rolling programme (Aug 2024 to Oct 2024) 24 _01 Task Split Milestone Summary	e	•		one ♦		Start-only		•	



Appendix H

Implementation Schedule of Environmental Mitigation Measures (EMIS)



Environmental Mitigation Implementation Schedule

	Location		Implementa	tion Status	
Environmental Protection Measures		Implemented	Partially implemented	Not implemented	Not Applicable
Air Quality					
Dust control / mitigation measures shall be provided to prevent dust nuisance.	All areas		√		
Water sprays shall be provided and used to dampen materials.	All areas	V			
All stockpile of aggregate or spoil should be enclosed or covered and water applied in dry or windy condition.	All areas	V			
 Any vehicle with open load carrying area used for moving materials which has the potential to create dust shall have properly fitting side and tail boards. Material having the potential to create dust shall not be loaded to a level higher than the side and tail boards, and shall be covered by a clean tarpaulin. 	All areas	V			
Unpaved areas should be watered regularly to avoid dust generation.	Site Egress	√			
The designated site main haul road shall be paved or regular watering.	All haul roads	\checkmark			
The public road around the site entrance should be kept clean and free from dust.	All areas	\checkmark			
Wheel washing facilities including high-pressure water jet shall be provided at the entrance of work site and and wash-water shall have sand and silt settled out or removed before being discharged into storm drains.	Site Egress	V			
Every vehicle shall be washed to remove any dusty materials from its body and wheels before leaving the fill bank.	Site Egress	$\sqrt{}$			
The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.	All areas	\checkmark			
Vehicle and equipment should be switched off while not in use.	All areas	$\sqrt{}$			
All plant and equipment should be well maintained e.g. without black smoke emission.	All areas	$\sqrt{}$			
Open burning should be prohibited.	All areas	\checkmark			
 Approval or exemption Non-road Mobile Machinery (NRMM) labels should be painted or securely fixed on regulated machines and non-road vehicles at a conspicuous position according to the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation (APCO Cap.311). 	All areas	V			
Noise Impact					
The approved method of working, equipment and sound-reducing measures (e.g. use of silenced type of equipment, etc.) shall be adapted.	All areas	V			
Only well maintained plant should be operated on-site and plant should be serviced regularly during the site works.	All areas	\checkmark			
Powered mechanical equipment (PME) should be covered or shielded by appropriate acoustic materials.	All areas	V			
Air compressors and hand held breakers should have noise labels.	All areas	V			
 Machines and plants that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum. 	All areas	√			
Noisy equipment and mobile plant shall always be site away from NSRs.	All areas	V			

 $\sqrt{}$ = Implemented, Remark:

 ∇ = Partially Implemented

X = Not Implemented

N/A = Not Applicable



		Location	Implementation	on Status		
	Environmental Protection Measures		Implemented	Partially implemented	Not implemented	Not Applicable
W	ater Quality					
	The existing / realigned intercepting channels and the sand / silt removal facilities shall be used and maintained.	All areas	$\sqrt{}$			
•	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	$\sqrt{}$			
	The stormwater intercepting system shall be effective to collect of runoff and remove suspended solids before discharge.	All areas	√			
-	The material shall be properly covered to prevent washed away especially before rainstorm.	All areas	\checkmark			
•	Unnecessary water retained in receptacles and standing water should be avoided to prevent mosquito breeding.	All areas	\checkmark			
•	The temporary slope surfaces shall be covered with impermeable sheet or sprayed with water.	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	V			
•	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.	Site Egress	√			
-	Sewage from toilets shall be discharged in to a foul sewer, or chemical toilets shall be provided.	Site Office	\checkmark			
•	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	√			
•	Tipping halls enclosed with top and 3-side to prevent spillage of material into marine water.	All areas	\checkmark			
•	Adequate environmental control measures shall be provided to prevent / avoid dropping of fill material into the sea during the transfer.	Along the seafront	√			
•	A waste collection vessel shall be deployed to remove floating debris.	Along the seafront	√			
Lá	andscape and Visual					
•	The maximum stockpiling height at the fill bank shall be limited to a maximum of +40mPD.	All areas	√			
•	Surface of outer slopes of the Fill Bank shall preferably be hydroseeded.	Completed slopes	\checkmark			
•	Stockpile of public fill shall be removed in a sequence to allow the outer hydrseeded to be removed later than other portions as far as practicable.	Completed slopes	√			
•	Casuarina equisetifolia were planted as buffer tree along the northern perimeter of the Site. The height of Casuarina equisetifolia was maintained at least 3m above soil level.	Site boundary	V			
•	Lighting shall be set to minimise night-time glare.	All areas	V			
W	aste Management					
C	onstruction Waste Management					
•	Relevant licence / permits for disposal of construction waste or excavated materials available for inspection.	All areas	√			



		Location	Implementati	on Status		
	Environmental Protection Measures		Implemented	Partially implemented	Not implemented	Not Applicable
•	Excavated material to be generated from construction works to be re-used on-site as far as practicable to reduce off-site disposal.	All areas	√	•		
•	Mud and debris should be removed from waterworks access roads and associated drainage systems.	All areas	V			
•	Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.	All areas	√			
•	Prior to disposal of C&D waste, recyclable materials should be salvaged for reuse (such as wood and metal) and inert waste utilised as public fill to minimise the quantity of waste to be disposed of to landfill.	All areas	√			
•	In order to monitor the disposal of C&D material and solid wastes at public filling areas and landfills, and to control fly-tipping, a trip-ticket system should be included as one of the contractual requirements.	All areas	$\sqrt{}$			
•	Any soil contaminated with chemicals/oils shall be removed from site and the void created shall be filled with suitable materials.	All areas	\checkmark			
C	nemical Waste Management					
•	It is required to register as a chemical waste producer if chemical wastes would be produced from the site activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	Waste Storage Area	V			
•	After use, chemical wastes (e.g. cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	Waste Storage Area	√			
•	Spent chemicals should be stored and collected by an approved operator for disposal at the Chemical Waste Treatment Facility or other licensed facility in accordance with the Chemical Waste (General) Regulation.	Waste Storage Area	√			
•	Chemical wastes should be separated for special handling and appropriate treatment at the Chemical Waste Treatment Facility.	Waste Storage Area	$\sqrt{}$			
•	Chemical wastes including waste oil should be stored properly in designated areas, e.g. chemical waste storage area.	Waste Storage Area	√			
•	The designated chemical waste storage area should only be used for storing chemical wastes.	Waste Storage Area	√			
T	e set-up of chemical waste storage area should					
•	Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition.	Waste Storage Area	√			
•	Be enclosed on at least 3 sides and securely closed.	Waste Storage Area	√			
•	Have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest.	Waste Storage Area	\checkmark			
•	Have adequate ventilation.	Waste Storage Area	√			
•	Be covered to prevent rainfall entering (water collected within the bund must be tested and disposal as chemical waste if necessary).	Waste Storage Area	√			
•	Be arranged so that incompatible materials are adequately separated.	Waste Storage Area	√			
•	Warning panels should be displayed at the waste storage area.	Waste Storage Area	√			



		Location	Implementation	on Status		
	Environmental Protection Measures		Implemented	Partially implemented	Not implemented	Not Applicable
•	Waste storage area should be cleaned and maintained regularly.	Waste Storage Area	√			
•	Chemical waste should be transported by a registered chemical waste collector to a facility licensed to receive chemical waste.	All areas	$\sqrt{}$			
•	All generators, fuel and oil storage should be within bundle areas.	All areas	$\sqrt{}$			
•	Oil leakage from machinery, vehicle and plant should be prevented.	All areas		$\sqrt{}$		
•	In the event of chemical waste / dangerous goods / chemicals spillage or leakage, the procedures as outlined in the Spillage Response Plan should be followed.	All areas	V			
•	The dangerous goods / chemical spillage or leakage procedures (including equipments) should be in place.	All areas	\checkmark			
Go	ood Site Practices					
•	Nomination of approved personnel, such as site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.	All areas	√			
•	Training of site personnel in proper waste management and chemical handling procedures should be provided.	All areas	\checkmark			
•	Good site practices should be adopted to clean the rubbish and litter on a regular basis so as to prevent the rubbish and litter from dropping into the nearby environment.	All areas	√			
•	Proper storage and site practices to minimise the potential for damage or contamination of construction materials.	All areas	\checkmark			
•	The Environmental Permit should be displaced conspicuously on site.	Site Entrance	√			
•	Construction noise permits should be posted at site entrance or available for site inspection.	Site Entrance				V
•	Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	All areas	√			
•	Chemical storage area provided with lock and located on sealed areas.	Chemical Storage Area	√			
•	All chemicals should be placed at the banded area with adequate band capacity (>110% of largest tank).	Chemical Storage Area	√			
•	Any unused chemicals or those with remaining functional capacity should be recycled.	All areas	\checkmark			
•	Regular cleaning and maintenance programme for waste storage area, drainage systems, silt traps, sumps and oil interceptors.	All areas	$\sqrt{}$			
•	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	√			
•	A recording system for the amount of wastes generated, recycled and disposed (including the disposal sites) should be used, e.g. trip ticket system for chemical waste disposal. Quantities could be determined by weighing each load or other suitable methods.	All areas	V			
•	A collection area should be provided where waste can be stored and loaded prior to removal from site. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light material. If an open area is unavoidable for the storage or loading/unloading of wastes, then the area should be bunded and all the polluted surface run-off collected within this area should be diverted into wastewater treatment system.	All areas	V			
•	Remove wastes in a timely manner.	All areas	\checkmark			



Appendix I

Statistical Analysis of the Trend of Suspended Solids in the Quarter



Statistical Analysis of the Trend of Suspended Solids

For Mid-Flood Tide

Station: TM-FM1

t-test

Group Name	N	Missing	Mean	Std Dev	SE
130%	12	0	5.9733	1.3518	0.3902
Baseline					
Mean				4.4=00	0.40=4
Quarterly	39	0	3.7038	1.1703	0.1874
Mean					

Result:

Difference between means = 2.2695 (95% CI : 1.4645 < Diff < 3.0744)

t-value of difference = 5.2425 (16 degrees of freedom)

Calculated t-value > Critical t-value

Conclusion:

There is statistically significant difference between the groups.

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

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

Station: TM-FM2

t-test

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	6.0267	1.1748	0.3391
Quarterly Mean	39	0	3.6919	0.9387	0.1503

Result:

Difference between means = 2.3348 (95% CI : 1.6737 < Diff < 2.9959)

t-value of difference = 6.2941 (16 degrees of freedom)

Calculated t-value > Critical t-value

Conclusion:

There is statistically significant difference between the groups.

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



Statistical Analysis of the Trend of Suspended Solids

For Mid-Flood Tide

Station: TM-FC1

t-test

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	6.6942	1.8839	0.5438
Quarterly Mean	39	0	3.7090	1.1877	0.1902

Result:

Difference between means = 2.9852 (95% CI : 2.0731 < Diff < 3.8974)

t-value of difference = 5.1815 (14 degrees of freedom)

Calculated t-value > Critical t-value

Conclusion:

There is statistically significant difference between the groups.

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

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

Station: TM-FC2

t-test

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	6.3067	1.8674	0.5391
Quarterly Mean	39	0	3.9017	1.0380	0.1662

Result:

Difference between means = 2.4050 (95% CI : 1.5611 < Diff < 3.2489)

t-value of difference = 4.2633 (13 degrees of freedom)

Calculated t-value > Critical t-value

Conclusion:

There is statistically significant difference between the groups.

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



Statistical Analysis of the Trend of Suspended Solids For Mid-Ebb Tide

Station: TM-FM1

t-test

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	7.0008	1.6394	0.4733
Quarterly Mean	39	0	3.9637	1.3300	0.2130

Result:

Difference between means = 3.0371 (95% CI : 2.1048 < Diff < 3.9694)

t-value of difference = 5.8523 (16 degrees of freedom)

Calculated t-value > Critical t-value

Conclusion:

There is statistically significant difference between the groups.

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

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

Station: TM-FM2

t-test

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	7.2758	1.5293	0.4415
Quarterly Mean	39	0	4.1415	1.2405	0.1986

Result:

Difference between means = 3.1343 (95% CI : 2.2647 < Diff < 4.0040)

t-value of difference = 6.4746 (16 degrees of freedom)

Calculated t-value > Critical t-value

Conclusion:

There is statistically significant difference between the groups.

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



Statistical Analysis of the Trend of Suspended Solids

For Mid-Ebb Tide

Station: TM-FC1

t-test

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	7.0008	1.6394	0.4733
Quarterly Mean	39	0	4.1115	1.1932	0.1911

Result:

Difference between means = 2.8893 (95% CI : 2.0224 < Diff < 3.7561)

t-value of difference = 5.6611 (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: TM-FC2

t-test

Group Name	N	Missing	Mean	Std Dev	SE
130% Baseline Mean	12	0	7.2758	1.5293	0.4415
Quarterly Mean	39	0	4.2013	1.2540	0.2008

Result:

Difference between means = 3.0745 (95% CI : 2.1983 < Diff < 3.9507)

t-value of difference = 6.3393 (16 degrees of freedom)

Calculated t-value > Critical t-value

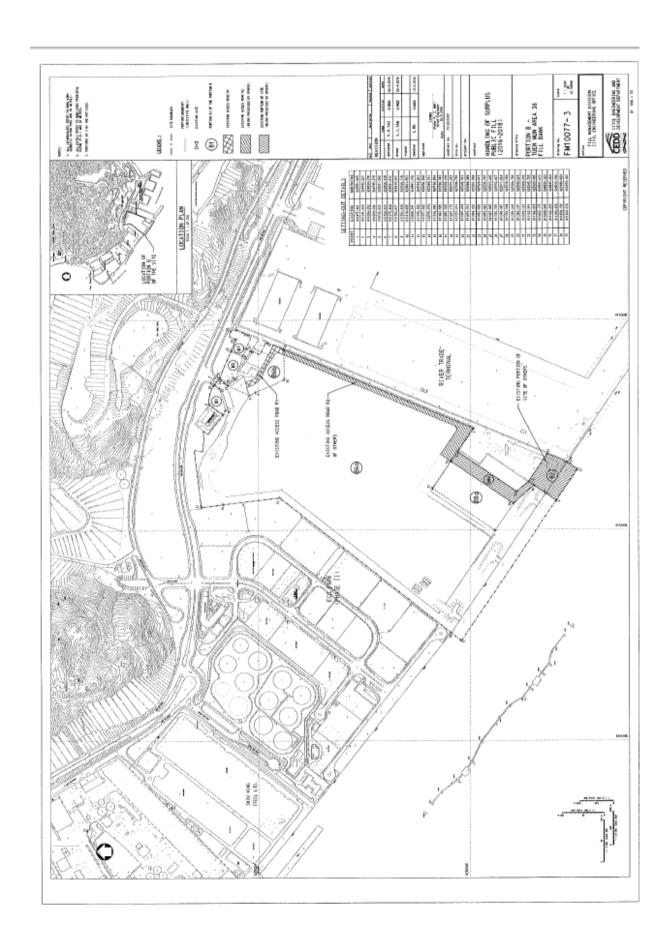
Conclusion:

There is statistically significant difference between the groups.

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



Appendix J Site General Layout plan





Appendix K Weather Condition

Daily Extract of Meteorological Observations , July 2024 - Tuen Mun

	Mean								
					Mean	Mean	Total	Prevailing	Mean
	Pressure	Ai	r Temperatu	ıre	Dew	Relative	Rainfall	Wind	Wind
	(hPa)				Point	Humidity	(mm)	Direction	Speed
Day		Absolute	Mean	Absolute	(deg. C)	(%)		(degrees)	(km/h)
		Daily							
			(deg.C)	Daily Min					
		Max (deg. C)		(deg. C)					
4	1005.4		00.0		00.4	70	0.5	010	01.5
2	1005.4 1006.9	32.4 32.7	30.6 30.5	29.3 29.1	26.4 26.4	78 79	2.5 5.3	210 190	31.5 28.8
3	1006.9		30.5				5.3		
4	1011.8	33.6		28.7	26.1 25.9	78 79		100 130	12.7
5	1011.8	32.5	30.2 30.7	27.7	25.9	78 76	5.1 1.5	110	6.1 3.6
6		34.6 34		28.5 29.2		76		120	8.5
7	1008.2 1008.9	34.8	30.8 31.6	29.2	26.3 26.3	74	0.2 Trace	160	14.7
8	1008.9	34.4	31.1	29.5	25.4	72	0.2	220	11.8
9	1008.2	34.3	31.1	28.9	25.3	72	Trace	190	11.7
10	1008.6	34.5	30.6	27	25.6	75 75	10.7	180	9.7
11	1006.8	32.2	30.0	28.5	25.9	73 78	6.5	180	13.1
12	1000.8	31.7	29.5	27.4	26.4	84	24.4	170	11.6
13	1004.8	33.8	30.7	27.7	26	76	8	160	16.3
14	1003.3	34.6	30.3	26.7	26.7	82	90	90	24
15	1007.3	33	29.7	27.9	26.8	85	13.6	90	25.6
16	1008.5	30.4	29	26	26.4	86	15.7	90	20.8
17	1008.9	32.7	29.5	26.7	26.1	83	13.7	100	16.7
18	1009.1	30.9	28.4	26.7	26.1	88	19.6	100	16.4
19	1007.5	30.8	29	27.1	27	89	40.5	80	11.1
20	1007.5	33.5	30.3	29	27.5	85	3.7	80	23.7
21	1007.1	32.1	30.1	28.6	27	83	4.7	90	23.9
22	1005.3	33.5	30.6	29	26.8	80	0.2	90	16.7
23	1001.6	33.3	30.7	28.8	25.9	76	-	230	14.2
24	996.9	32.7	30.3	28.7	26.3	80	-	260	22.3
25	992.2	33.1	30.9	29.5	26.6	78	Trace	250	47.5
26	995.2	30.3	29.8	28.9	27	85	3.9	240	39.3
27	1002.8	30.2	28.7	27	26.4	88	34.7	220	24.5
28	1005.9	27.8	27.1	26.4	26	94	69.4	110	17.8
29	1006.1	29.6	27.6	26.6	25.6	89	6.7	110	20.5
30	1006	30.3	27.6	26.1	25.6	89	29.5	110	10.8
31	1007.7	30.2	28.1	26.2	25.9	88	48.2	200	17.5

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

Daily Extract of Meteorological Observations , August 2024 - Tuen Mun

	1		212010108			is , rtagas			
	Mean				Mean	Mean	Total	Prevailing	Mean
	Pressure	Ai	r Temperatu	ıre	Dew	Relative	Rainfall	Wind	Wind
	(hPa)				Point	Humidity	(mm)	Direction	Speed
Day		Absolute	Mean	Absolute	(deg. C)	(%)		(degrees)	(km/h)
					(deg. c)	(70)		(degrees)	(1111/11)
		Daily	(deg.C)	Daily					
		Max		Min					
		(deg. C)		(deg. C)					
1	1008.2	32.9	30.2	28.2	26.2	79	2.3	190	23.9
2	1007.8	31.5	29.8	28.2	26.1	81	0.4	190	18.9
3	1008.7	33.3	30.4	28.7	25.6	76	-	240	14.9
4	1007.8	34.2	30.7	28.3	25.7	76	-	250	19.2
5	1005.7	35.4	31.8	29.3	26.9	76	-	230	12.9
6	1005.4	34.9	30.6	26.6	26.3	78	10.3	30	4.9
7	1006.5	33.7	30.7	28.6	26.5	79	-	240	12.7
8	1006.7	33.2	30.7	29.3	26.1	77	-	250	26.3
9	1005.6	33	30.4	28.7	25.7	76	-	230	26.6
10	1004.1	32.7	30.5	29	26.5	79	Trace	230	22.3
11	1003.1	32	30.3	29.2	26.6	81	-	250	13.4
12	1004.1	31.8	29.2	26	26.3	85	20.9	230	11.8
13	1006	33.4	29.7	28	26.3	82	5	260	4.1
14	1006.3	30.5	29.2	28.2	25.7	82	0.1	260	4.5
15	1005.2	29.9	27.7	26	25.5	88	8	270	9.5
16	1005.1	29.5	27.7	26.5	24.8	84	0.4	220	11.8
17	1006.7	28.8	27.3	25.2	25.8	92	116.2	220	11.8
18	1006.1	30.3	28.3	25.8	25.8	87	32.5	230	27.7
19	1004.5	28.8	28	26.9	25.8	88	19.3	240	29.5
20	1006.3	28.5	27.5	25.6	25.6	89	11.4	240	28.7
21	1009.8	28.2	27.1	26.3	24.9	87	3.9	240	14.2
22	1010.4	32	28.9	26.6	25.7	83	-	170	4.3
23	1010.5	31.4	29.3	28	25.8	82	-	230	10.2
24	1009.3	34.3	30.2	28.1	25.6	77	-	240	10
25	1008	33.7	30.1	28	25	75	-	250	12
26	1006.7	33.8	30.3	28.4	25.2	75	-	240	10.7
27	1005.4	34.1	30.6	28.5	25.4	74	-	250	18.8
28	1003.5	34.8	30.7	27.6	25.6	75	Trace	250	17.4
29	1004.6	33.6	30.5	28.3	25.6	76	Trace	60	8.7
30	1006.9	33.7	30.3	27.9	26.9	82	23.3	90	19.5
31	1008.2	32.2	29.6	27.8	26.4	84	7.5	90	26.4
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Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected

Daily Extract of Meteorological Observations , September 2024 - Tuen Mun

	Mean		eorologic		Mean	Mean	Total	Prevailing	Mean
	Pressure	Ai	r Temperatu	ıre	Dew	Relative	Rainfall	Wind	Wind
	(hPa)				Point	Humidity	(mm)	Direction	Speed
Day	(III a)						(11111)		
_ 3-3		Absolute	Mean	Absolute	(deg. C)	(%)		(degrees)	(km/h)
		Daily	(deg.C)	Daily					
		Max		Min					
		(deg. C)		(deg. C)					
1	1008.1	33	30.1	28.1	26.5	82	Trace	130	5.7
2	1007.6	34.2	30.6	28.4	26.2	78	Trace	160	4.3
3	1006.1	33.5	30.2	25.5	25.8	78	35.5	180	4.5
4	1002.3	32.5	29.7	26.5	24.7	75	0.6	70	14.5
5	999.5	33.4	30.4	26.2	24.5	71	21.5	50	53.8
6	1001.6	28.8	27.6	25.9	25.7	90	84.1	70	56.8
7	1007.1	30.9	29.2	27.9	26.9	88	5.8	100	31.5
8	1008.6	30.1	28.2	27.3	26.5	91	37.8	80	16.3
9	1007.7	30	27.8	26.3	25.1	85	13	80	11.7
10	1007.3	33.3	29.4	26.8	24.8	77	-	80	9.9
11	1008.1	34.3	30.4	28.2	25.4	76	-	40	6.7
12	1007	32.2	29.8	27.7	25.1	77	-	230	4.9
13	1005.1	34.5	30.4	28.2	24.9	73	0.1	70	7.3
14	1002.8	33.5	29.2	26.7	24.4	76	57.2	10	5.4
15	1002.3	31.7	29.3	27.4	24.6	76	2.4	360	6.4
16	1004	30.6	28.5	25.8	24.8	81	27.4	50	25.1
17	1004.1	35.7	30.8	26.3	25.5	74	16	40	20.6
18	1003.9	32.8	29.7	26.8	24.3	73	Trace	70	37.5
19	1003.2	33.6	30.2	28.7	25.2	75	-	70	26.4
20	1003.2	32.6	29.8	27.4	25.7	79	4.6	50	12.4
21	1003.5	28.8	27.7	25.7	25.8	90	72.9	80	10.9
22	1005.8	30.1	27.1	24.4	24.8	88	32.1	360	22.6
23	1009	28	25.7	23.4	23.9	90	24.9	10	23.3
24	1010.6	28.2	26.7	25.2	25.2	91	75	190	11.7
25	1011.2	31.4	28.5	26.9	25.2	83	5.4	240	11
26	1011.2	31.6	29.4	27.4	25.1	78	-	250	16.4
27	1010.1	32.4	29.9	28.1	25.1	76	-	250	20.6
28	1009.2	32.1	29.1	27.5	25.4	80	1.3	80	16.8
29	1008.6	31.8	29.2	26.6	24.4	76	3.3	100	8
30	1005.5	33.3	30.5	27.9	24.4	71	-	280	13.2
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Rainfall measured in increment of 0.5 mm. Amount of < 0.5 mm cannot be detected



Appendix L

Complaint Log



Complaint Log

Log Ref.	Location	Received Date	Details of Complaint	Investigation / Mitigation Action	Status
001	Lung Mun Road near Tuen Mun Area 38 Fill Bank	24 May 2017	One complaint received on 24 May 2017, which was forwarded to ET on 03 June 2017, from public against the rocks and debris deposited on the road surface along Lung Mun Road near Tuen Mun Area 38 Fill Bank. The complainant complained that waste generated caused an environmental nuisance.	Refer to the ET site investigation on 06 June 2017, the condition of Lung Mun Road near Tuen Mun Area 38 Fill Bank was found satisfactory. Details of Action(s) Taken by the Contactor: 1. Regular water spraying by water lorries is provided for road cleaning at Lung Mun Road; 2. Regular cleaning on Lung Mun Road and the access road at the site exit by road sweeper to remove mud and gravel is arranged four times on each working day; 3. Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving; 4. Site vehicle for transporting materials are covered properly by using clean tarpaulin sheets; 5. Regular cleaning at the site haul road is provided to minimize the fugitive dust emission.	Closed
002	Lung Mun Road near Tuen Mun Area 38 Fill Bank	16 April 2018	One complaint received on 16 April 2018 from public and forwarded to ET by email at 10:51 on 25 May 2018. The complaint detail was"來往屯門第 38 區填料庫的龍門路沿路有很多泥頭車出入,泥頭會從車上掉至路面上,要求部門跟進及回覆。"	Refer to the ET site investigation on 26 May 2018, the condition of Lung Mun Road near Tuen Mun Area 38 Fill Bank was found satisfactory. Details of Action(s) Taken by the Contactor: 1. Regular cleaning on Lung Mun Road and the access road at the site exit by road sweeper to remove mud and gravel is arranged four times on each working day; 2. Regular water spraying by water lorries is provided for road cleaning at Lung Mun Road; 3. Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving; 4. Site vehicles for transporting materials are covered properly by using clean tarpaulin sheets; 5. Regular cleaning at the site haul road is provided	Closed



003	Lung Mun Road near Tuen Mun Area 38 Fill Bank	26 June 2018	One complaint received on 26 June 2018 from public and forwarded to ET by email at 13:58 on 03 July 2018. The complaint detail was" 當天水車於 6 時出動洗街,導致交通阻塞."	Refer to the ET site investigation on 07 July 2018, the condition of Lung Mun Road near Tuen Mun Area 38 Fill Bank was found satisfactory. Details of Action(s) Taken by the Contactor: 1. Improve the road washing plan to avoid washing in traffic peak peroid 2. Revised the road washing schedule as soon as possible once there is traffic jam	Closed
004	Tuen Mun Area 38 Fill Bank	06 October 2021	A complaint was received on 06 October 2021 from public regarding dust nuisance within TM38 Fill Bank and was forwarded to ET by email on 06 October 2021 for investigation.	Refer to the ET site investigation on 12 October 2021, no defective observation related to dust emission was recorded during the investigation. Details of Action(s) Taken by the Contactor: 1. Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank. Regular cleaning at the site haul road is provided to minimize the dust emission.	Closed



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005	Tuen Mun Area 38 Fill Bank	28 June 2022	A complaint was received on 28 June 2022, which was forwarded to ET by email on 28 June 2022 for investigation, from public against "土木工程署屯門第 38 區填料庫經常發出異味,致現場的空氣及環境被受污染,土木工程拓展署難辭其咎,環保署亦應就現場大量大型車輛造成的空氣污染作出跟進。"	Refer to the ET site investigation on 30 June 2022, no defective observation related to dust emission was recorded during the investigation Details of Action(s) Taken by the Contactor: 1. Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank; 2. Regular cleaning at the site haul road is provided to minimize the dust emission; 3. Site vehicles are washed to remove any dusty materials from their bodies and wheels by using high pressure water jet manually at the entrance of work site before leaving;	Closed
006	Tuen Mun Area 38 Fill Bank	05 July 2022	A complaint was received on 05 July 2022, which was forwarded to ET by email on 15 July 2022 for investigation, from an environmental group against "為何 TM38 區之斜坡不同蓋上帆布".	Refer to the ET site investigation on 14 July 2022, no defective observation related to dust emission was recorded during the investigation. Details of Action(s) Taken by the Contactor: 1. Regular water spraying by water lorries is provided for dust suppression inside the Fill Bank. 2. Regular cleaning at the site haul road is provided to minimize the dust emission.	Closed



007	Tuen Mun Area 38 Fill Bank	30 September 2022	A complaint was received on 30 September 2022, which was forwarded to ET by email on 03 October 2022 for investigation, against "In recent days, we found that there was significant dust emission from the fill bank. As you are aware that we need to conduct RSP and TSP monitoring at the site boundary with very tight limits. We worry that these situations might affect our measurement. Please see the videos attached. They are taken on 21 Sept and one on 26 Sept. Grateful if you could investigate the cases and ensure dust is properly controlled."	The video provided by the complainant showed that there was serious dust emission in 3RS collection area of public fill. Based on this situation, mitigation measures implemented in TM38 Fill Bank were reviewed and enhanced to avoid dust emission. A joint site inspection and meeting was carried out on 06 October 2022 to discuss the dust emission at TM38 Fill Bank. The location of 3RS and discharge point would be inspected in every weekly environmental audit. The status of 3RS location would be recorded to monthly EM&A report. Details of Action(s) Taken by the Contactor: 1. Increasing the frequency of water spraying by water lorries inside the Fill Bank. 2. Setting up water spraying machine in the 3RS area 3. Regular cleaning at the site haul road is provided to minimize the dust emission.	Closed
008	Tuen Mun Area 38 Fill Bank	25 January 2024	A complaint was received on 25 January 2024, which was forwarded to ET by email on 26 January 2024 for investigation, from public against dust nuisance and lack of lighting facilities "投訴屯門 38 區填料庫,沙塵四起,要求加強灑水。要求增加石屎路。夜間增加照明。"	Refer to the ET site investigation on 14 July 2022, no defective observation related to dust emission was recorded during the investigation. Details of Action(s) Taken by the Contactor: 1. Increasing the frequency of water spraying by water lorries to suppress dust emission inside the Fill Bank. 2. Regular cleaning at the site haul road is provided to minimize the dust emission.	Closed

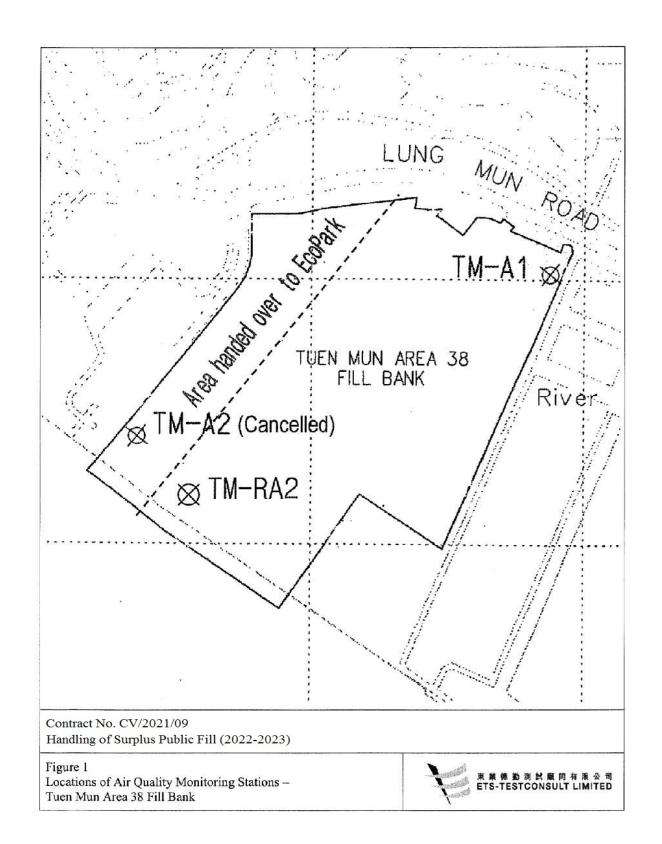


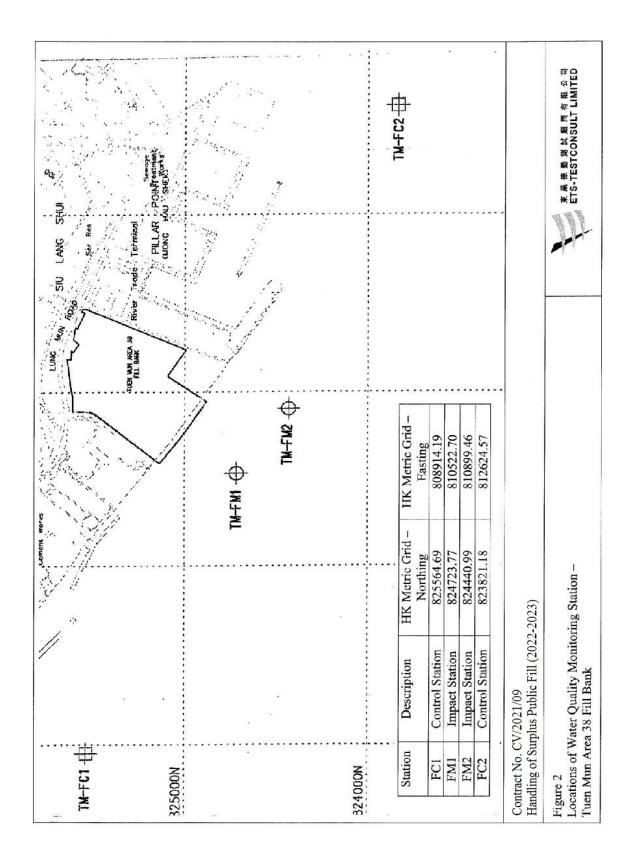
009	Tuen Mun Area 38 Fill Bank	30 September 2024 & 02 October 2024	A complaint was received on 30 September 2024 and 02 October 2024, which was forwarded to ET by email on 02 October 2024 for investigation, from public against dust nuisance "投訴屯門 38,泥塵大,要求增加水車灑水。"	Follow-up

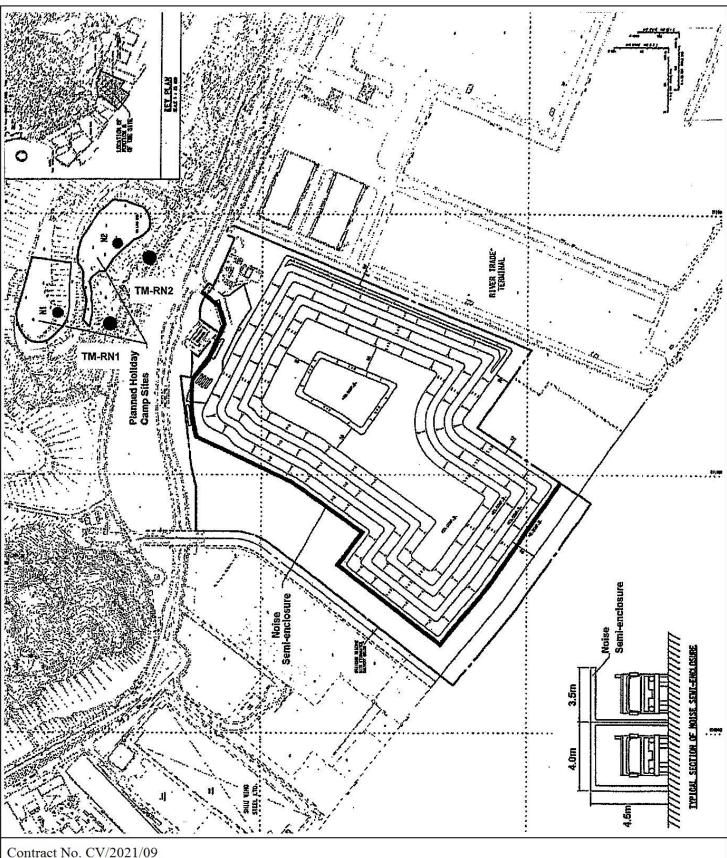


Figures









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

Figure 3 Locations of Noise Monitoring Stations – Tuen Mun Area 38 Fill Bank

