Civil Engineering and Development Department

Agreement No. CE 59/2015 (EP) Environmental Team for Tseung Kwan O – Lam Tin Tunnel Design and Construction

Monthly Environmental Monitoring and Audit Report for November 2022

(Version 1.0)

Approved By (Dr. HF Chan,
Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties.

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Yau Ma Tei	Date:	13 December 2022
Kowloon		

Attention: Mr Raymond Chan

BY FAX & POST (Fax no.: 2739 0076)

Dear Sirs

Agreement No.: NTE 06/2016 Independent Environmental Checker for Tseung Kwan O – Lam Tin Tunnel Monthly Environmental Monitoring and Audit Report for November 2022 (version 1.0)

We refer to the emails of 8 and 9 December 2022 from Cinotech Consultants Limited attaching the Monthly Environmental Monitoring and Audit Report for November 2022 (version 1.0).

We have no further comment and hereby verify the captioned report in accordance with Clause 4.4 of the Environmental Permit no. EP-458/2013/C.

Should you have any queries, please do not hesitate to contact the undersigned or our Mr Edric Lau on 2618 2831.

Yours faithfully ANEWR CONSULTING LIMITED

James Choi Independent Environmental Checker

CPSJ/LCCR/LTKE/lsmt

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EXECUTIVE SUMMARY

Introduction

- This is the 73th Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for the "Agreement No. CE 59/2015 (EP) Environmental Team for Tseung Kwan O – Lam Tin Tunnel – Design and Construction" (hereinafter called "the Project"). This report documents the findings of EM&A Works conducted in November 2022.
- 2. During the reporting month, the following works contracts were undertaken:
 - Contract No. NE/2015/01 Tseung Kwan O Lam Tin Tunnel Main Tunnel and Associated Works;
 - Contract No. NE/2015/02 Tseung Kwan O Lam Tin Tunnel Road P2 and Associated Works;
 - Contract No. NE/2017/01 Tseung Kwan O Lam Tin Tunnel –Tseung Kwan O Interchange and Associated Works
 - Contract No. NE/2017/02 Tseung Kwan O Lam Tin Tunnel Road P2/D4 and Associated Works.
 - Contract No. NE/2017/06 Tseung Kwan O Lam Tin Tunnel Traffic Control and Surveillance System (TCSS) and Associated Works
 - Contract No. NE/2017/07 Cross Bay Link, Tseung Kwan O Main Bridge and Associated Works.

Environmental Monitoring Works

- 3. Environmental monitoring for the Project was performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked. The tentative implementation schedule for mitigation measures in operation phase is presented in **Appendix X**.
- 4. Summary of the non-compliance (exceedance) in the reporting month for the Project is tabulated in **Table I**.

Environmental Monitoring	No. of Non-compliance (Exceedance)		No. of Non-compli due to Constructio Pro	Action Taken	
	Action Level	Limit Level	Action Level	Limit Level	
Air Quality	0	0	0	0	Refer to Appendix K
Noise	2	0	1	0	Refer to Appendix K & O
Marine Water Quality	21	66	0	0	Refer to Appendix K
Groundwater Level Monitoring (Piezometer Monitoring)	0	N/A ¹	0	N/A^1	N/A
Ecological	N/A	N/A	N/A	N/A	N/A
Cultural Heritage	0	0	0	0	N/A
Landfill Gas	0	0	0	0	N/A

Table I	Non-compliance (exceedance) Record for the Project in the Reporting Month
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Note:(1) No Limit Level for Groundwater Level Monitoring (Piezometer Monitoring).

Air Quality Monitoring

- 5. No Action/Limit Level exceedance for 1-hour TSP monitoring was recorded.
- 6. No Action Level exceedance for 24-hour TSP monitoring was recorded.
- 7. No Limit Level exceedances for 24-hour TSP monitoring was recorded.

Construction Noise Monitoring

- 8. One (1) Action Level exceedance was recorded due to documented complaints in the reporting month. The Summary of Documented Complaints in Reporting Month is tabulated in **Table III.**
- 9. No project-related Limit Level exceedance was recorded due to monitoring results in this reporting month.

Water Quality Monitoring

- 10. Groundwater quality monitoring had been suspended since October 2019 upon the agreement by EPD. Further details should be founded at **Section 5.1**.
- 11. All marine water quality monitoring was conducted as scheduled in the reporting month. There were twenty-one (21) Action Level and sixty-six (66) Limit Level exceedances recorded in Monitoring Stations (M) during marine water quality monitoring. During this reporting month, no sand plume was observed during the water quality monitoring and site audits, therefore there is no direct evidence that the recent exceedances were due to the construction works of the Project. Details of this investigation are presented in **Section 5**. Daily silt curtain inspection and weekly diving inspection have been carried out by contractor, the record, as reviewed by the site auditors, indicated that silt curtains were found in good conditions.

- 12. Since all marine works are completed in November 2021, the post-reclamation marine water quality monitoring was initiated in December 2021. The monitoring location is presented in **Figure 9** while the monitoring results shall be referred to in **Appendix W**.
- 13. Construction phase daily piezometer monitoring by the Contractor commenced in June 2018. It has switched to monthly basis on 3 October 2018 as the construction activity was 120m away from the piezometer gate. No monitoring was conducted in the reporting month.

Ecological Monitoring

14. Post-translation coral monitoring survey shall be conducted once every 3 months for a period of 12 months after completion of coral translocation. The post-translocation coral monitoring surveys were completed in November 2017.

Monitoring on Cultural Heritage

15. Monitoring of impacts on Cultural Heritage at Cha Kwo Ling Tin Hau Temple commenced in May 2017. No Alert, Alarm, and Action (AAA) Level exceedance was recorded in the reporting month.

Landscape and Visual Monitoring and Audit

16. The implementation of landscape and visual mitigation measures was checked during the environmental site inspections. Recommended follow-up actions have been discharged by the Contractor. Details of the audit findings and implementation status are presented in **Section 10**.

Landfill Gas Monitoring

17. Monitoring of landfill gases commenced in December 2016 and was carried out by the Contractor at excavation location, Portion III. No Limit Level exceedance was recorded.

Environmental Site Inspection

18. Joint weekly site inspections were conducted by representatives of the Contractor, Engineer, and Environmental Team. The representative of the IEC joined the site inspection for NE2015/01 and NE/2017/07 on 30 November 2022 & NE/2015/02, NE/2017/01, NE/2017/02, and NE/2017/06 on 17 November 2022 respectively. Details of the audit findings and implementation status are presented in Section 10.

Waste Management

19. Wastes generated from this Project include inert construction and demolition (C&D) materials, non-inert C&D materials, and marine sediment. Details of waste management data are presented in **Section 11** and **Appendix P**.

Key Information in the Reporting Month

20. Summary of key information in the reporting month is tabulated in **Table II**

Monthly Complaints Event Details		A ation Takan	G ()	
Wonthly Complaints	Number	Nature	Action Taken	Status
November 2022	2	Noise	Details refer to App O	Investigation undergoing
October 2022	1	Noise	Details refer to App O	Investigation undergoing
September 2022	2	Noise	Details refer to App O	Closed
August 2022	5	Air / Noise	Details refer to App O	Closed
July 2022	3 ^{*5}	Noise / Water	Details refer to App O	Closed
June 2022	3	Noise	Details refer to App O	Closed
May 2022	7	Noise	Details refer to App O	Closed
April 2022	11*4	Air / Noise	Details refer to App O	Closed
March 2022	4*3	Noise / Water	Details refer to App O	Draft CIR submitted / Closed
February 2022	5*2	Noise	Details refer to App O	Closed
January 2022	4	Noise	Details refer to App O	Closed
December 2021	8	Noise	Details refer to App O	Closed
November 2021	7	Noise	Details refer to App O	Closed
October 2021	4*1	Noise / Odour / Water / Air	Details refer to App O	Closed
Notifications of any summons & prosecutions received	0		N/A	N/A

Table II	Key Information in the Reporting Month	1
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*1: 1 complaint in October 2021 has been supplemented in this reporting month.

*2: 2 complaints in February 2022 were received in early March 2022.

*3: 1 complaint in March 2022 was received in April 2022 and 1 complaint was missing and found in August 2022

*4: 3 complaints in April 2022 were received in May 2022

*5: 1 complaint in June 2022 were received in July 2022

21. Summary of complaints received in the reporting month is tabulated in Table III.

Complaint	Complaint	Investigation Findings	Follow-up Action /
No. Lam Tin Side	<u> </u>		Mitigation Measure
N/A	N/A	N/A	N/A
Tseung Kwar	n O Side		
627	Construction Noise Nuisance during restricted hours at Tseung Kwan O (Nov 2022)	Investigation undergoing	Investigation undergoing
628	Construction Noise Nuisance during restricted hours at Tseung Kwan O (Nov 2022)	Investigation undergoing	Investigation undergoing

Table III Summary of Complaints Details in Reporting Month

Key Construction Work in the reporting month & the next reporting month

22. Summary of key construction work in the reporting month is tabulated in Table IV.

Contract No.	Project Title	Site Activities	(November 2022)
NE/2015/01	Tseung Kwan O – Lam Tin Tunnel – Main Tunnel and Associated Works	Lam Tin Interchange	 Site Formation Area 1G1, 1G2, 2 & 5 Site Formation Slope Stabilization Site Formation Retaining Wall Administration Building West Ventilation Building Bridge Construction Noise Barrier / Noise Enclosure Emergency Stormwater Storage Tank + Stormwater Pumping Station S01_2, EHC1&4 Construction Semi Enclosure Structures CKLR Underground Utilities Landscape Deck & Noise Cover LTI Drainage Road EHC4 Noise Enclosure
		Main Tunnel TKO Interchange	 18) Profile Barrier / VE Panel 19) S02_2 Excavation & Lining 20) Tunnel E&M Works 21) East Ventilation Building 22) External Road Pavement 23) Miscellaneous Works
NE/2015/02	Tseung Kwan O – Lam Tin Tunnel – Road P2 and Associated Works	24) Slope stabilization works 1) Seawall construction 2) Construction of dwarf wall 3) Construction of profile barrier 4) Construction of retaining wall 5) VE/PC panel installation 6) Backfilling 7) E&M testing works	
NE/2015/03	Tseung Kwan O – Lam Tin Tunnel – Northern Footbridge	The construction w	vorks under the contract had been completed in 'he EM&A works were terminated in late April
NE/2017/01	Tseung Kwan O – Lam Tin Tunnel – Tseung Kwan O Interchange and Associated Works	 Defects Rectif Installation of Waterproofing Road Marking 	Railing g and Asphalt Pavement
NE/2017/02	Tseung Kwan O – Lam Tin Tunnel – Road P2/D4 and Associated Works	 2) Road works 3) Construction (4) Asphalt Pavin 	excavation and utility diversion works of drainage and watermain g and Lift Shalt Construction
NE/2017/06	Tseung Kwan O – Lam Tin Tunnel – Traffic Control and Surveillance System(TCSS) and Associated Works	 Goods arrival Installation we 	orks inside Administrative Building & storage on site orks inside WVB & EVB new site office
NE/2017/07	Cross Bay Link, Tseung Kwan O –	 Road pavement Installation of 	nt works parapet post and double rail

Table IV Summary Table for Key Construction Work in the Reporting Month

Contract No.	Project Title	Site Activities (November 2022)
	Main Bridge and	3) Installation of balustrade and isolation panel post
	Associated Works	4) Installation of E&M works
		5) Top coating and painting repair
		6) Road pavement works
		7) Steel bridge pavement works
		8) Laying drainage aggregate
		9) Placing of DN300 fire main

Future Key Issues

23. The future key environmental issues in the coming month include:

Table V	Summary	Table for Site Activities in the next Reporting	Period

Contract No. and	Site Activiti	Key Environmental	
Project Title			Issues *
NE/2015/01 - Tseung Kwan O – Lam Tin Tunnel – Main Tunnel and Associated Works	Lam Tin Interchange	 Site Formation Area 1G1, 1G2, 2 & 5 Site Formation Slope Stabilization Site Formation Retaining Wall Administration Building West Ventilation Building Bridge Construction Noise Barrier / Noise Enclosure Emergency Stormwater Storage Tank + Stormwater Pumping Station Sewage Pumping Station Enclosure Structures CKLR Underground Utilities Landscape Deck & Noise Cover LTI Drainage Road EHC4 Noise Enclosure 	(A) / (B) / (C) / (D) / (E) / (G)
	Main Tunnel	18)Profile Barrier / VE Panel 19)S02_2 Excavation & Lining 20)Tunnel E&M Works	(B)
	TKO Interchange	21)East Ventilation Building 22)External Road Pavement 23)Miscellaneous Works 24)Slope Stabilization Works	(A) / (C) / (D) / (E) / (F) / (I)
NE/2015/02 - Tseung Kwan O – Lam Tin Tunnel – Road P2 and Associated Works	 Seawall construction Construction of dwarf wall Construction of profile barrier Construction of retaining wall VE/PC panel installation Backfilling E&M testing works 		(A) / (B) / (C) / (D) / (E) / (G) / (I)
NE/2015/03 - Tseung Kwan O – Lam Tin Tunnel – Northern Footbridge	The construction works under the contract had been completed in December 2019. Materials are being removed from works area.		N/A
NE/2017/01 – Tseung Kwan O Interchange and Associated Works	 Defects red Installation Road Mark 	n of Railing	(A) / (B) / (E) / (F) / (G)

Design and Construction Monthly EM&A Report for November 2022

Contract No. and Project Title	Site Activities (December 2022)	Key Environmental Issues *
NE/2017/02 –Tseung Kwan O - Lam Tin Tunnel - Road P2/D4 and Associated Works	 Inspection pit excavation and utility diversion works Construction of drainage and watermain Asphalt Paving Pier, Staircase and Lift Shalt Construction Road Works 	(A) / (B) / (E) / (F) / (G)
NE/2017/06 – Tseung Kwan O – Lam Tin Tunnel – Traffic Control and Surveillance System (TCSS) and Associated Works	 Installation + T&C works inside Administrative Building Goods arrival & storage on site Installation + T&C works inside EVB and WVB Installation + T&C works at Bridge Installation + T&C works at Open Road 	(E)
NE/2017/07 - Cross Bay Link, Tseung Kwan O – Main Bridge and Associated Works	 Installation of L3 railing and balustrade Installation of E&M works Landscaping works Road marking at carriageway and green colour dressing 	(A) / (B) / (D) / (E) / (F) / (G) / (H) / (I)

Note:

(A) Watering for dust generation from haul road, stockpiles of dusty materials, exposed site area, excavation works and rock breaking activities;

- (B) Noisy construction activity such as rock-breaking activities and piling works;
- (C) Runoff from exposed slope or site area;
- (D) Wastewater and runoff discharge from site;
- (E) Accumulation of silt, mud and sand along U-channels and sedimentation tanks;
- (F) Set up and implementation of temporary drainage system for the surface runoff;
- (G) Storage of chemicals/fuel and chemical waste/waste oil on site;
- (H) Accumulation and storage of general and construction waste on site; and
- (I) Marine water quality impact and indirect impact to coral communities due to marine construction for TKO-LTT reclamation

1. INTRODUCTION

1.1 Cinotech Consultants Limited (Cinotech) was commissioned by Civil Engineering and Development Department (CEDD) as the Environmental Team (ET) to undertake environmental monitoring and auditing services for the Works Contracts involved in the implementation of Tseung Kwan O – Lam Tin Tunnel (TKO-LTT) project to ensure that the environmental performance of the Works Contracts comply with the requirements specified in the Environmental Permit (EP), Environmental Monitoring & Audit (EM&A) Manual, Environmental Impact Assessment (EIA) Report of the TKO-LTT project and other relevant statutory requirements. This is the 73th Monthly EM&A report summarizing the EM&A works for the Project in November 2022.

Purpose of the Report

1.2 This is the 73th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in November 2022.

Structure of the Report

1.3 The structure of the report is as follows:

Section 1: **Introduction** – purpose and structure of the report.

Section 2: **Contract Information** – summarises background and scope of the Contract, site description, project organization and contact details, construction programme, the construction works undertaken and the status of Environmental Permits/Licenses during the reporting month.

Section 3: **Air Quality Monitoring** – summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, Action and Limit Levels, monitoring results and Event / Action Plans.

Section 4: **Noise Monitoring** – summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, Action and Limit Levels, monitoring results and Event / Action Plans.

Section 5: Water Quality Monitoring – summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, Action and Limit Levels, monitoring results and Event / Action Plans.

Section 6: **Ecological Monitoring** – summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations and Action and Limit Levels, monitoring results and Event / Action Plans.

Section 7: **Cultural Heritage** –summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations and monitoring results.

Section 8: Landscape and Visual Monitoring Requirements – summarises the requirements of landscape and visual monitoring

Section 9: Landfill Gas Monitoring – summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, monitoring results and Limit Levels and Action Plan

Section 10: **Environmental Site Inspection** – summarises the audit findings of the weekly site inspections undertaken within the reporting month.

Section 11: Waste Management – summarises the waste management data in the reporting month.

Section 12: **Environmental Non-conformance** – summarises any monitoring exceedance, environmental complaints, environmental summons and successful prosecutions within the reporting month.

Section 13: **Future Key Issues** – summarises the impact forecast and monitoring schedule for the next three months.

Section 14: Conclusions and Recommendation

2. **PROJECT INFORMATION**

Background

- 2.1 In 2002, Civil Engineering and Development Department (CEDD) commissioned an integrated planning and engineering study under Agreement No. CE 87/2001 (CE) "Further Development of Tseung Kwan O Feasibility Study" (the "TKO Study") to formulate a comprehensive plan for further development of TKO New Town. It recommended to further develop TKO to house a total population of 450,000 besides the district's continuous commercial and industrial developments.
- 2.2 At present, the Tseung Kwan O Tunnel is the main connection between Tseung Kwan O (TKO) and other areas in the territory. To cope with the anticipated transport need, the TKO Study recommended the provision of Tseung Kwan O Lam Tin Tunnel (TKO-LTT) (hereinafter referred to as "the Project") and Cross Bay Link (CBL) to meet the long-term traffic demand between TKO and the external areas. The site layout plan for the Project is shown in **Figure 1**. CBL was also entrusted with part of the marine viaducts near Tseung Kwan O Interchange since the commencement of the CBL project the December 2018.
- 2.3 The Environmental Impact Assessment (EIA) Report for the TKO-LTT project was approved under the Environmental Impact Assessment Ordinance (EIAO) in July 2013. The corresponding Environmental Permit (EP) was issued in August 2013 (EP no.: EP-458/2013). Variations to the EP was applied and the latest EP (EP no.: EP-458/2013/C) was issued by the Director of Environmental Protection (DEP) in January 2017.
- 2.4 The commencement dates of construction of this Project are:
 - Contract No. NE/2015/01 and Contract No. NE/2015/02: 7 November 2016.
 - Contract No. NE/2015/03: 29 May 2017.
 - Contract No. NE/2017/02: 15 March 2018.
 - Contract No. NE/2017/01: 23 May 2018.
 - Contract No. NE/2017/06: 09 November 2018.
 - Contract No. NE/2017/07: 22 February 2021
- 2.5 The tentative implementation schedule for mitigation measures in operation phase of NE/2015/02 and NE/2017/02 is presented in **Appendix X**.

Project Organizations

- 2.6 Different parties with different levels of involvement in the project organization include:
 - Project Proponent Civil Engineering and Development Department (CEDD)
 - The Engineer and the Engineer's Representative (ER) AECOM
 - Environmental Team (ET) Cinotech Consultants Limited (Cinotech)
 - Independent Environmental Checker (IEC) AnewR Consulting Limited (AnewR)

2.7 The key contacts of the Project are shown in **Table 2.1**. **Table 2.1** Key Project Contacts

<u>able 2.1</u>	Key Project Contacts			
Party	Role	Contact Person	Phone No.	Fax No.
CEDD	Project Proponent	Mr. LO Sai Pak, Sunny	2301 1384	2739 0076
AECOM	Engineer's Representative	Mr. Jackie CW, Ng	3910 1601	3910 1600
Cinotach	Environmentel Teem	Dr. HF Chan	2151 2088	2107 1299
Cinotech	Environmental Team	Mr. KS Lee	2151 2091	3107 1388
AnewR	Independent Environmental Checker	Mr. James Choi	2618 2836	3007 8648

Construction Activities undertaken during the Reporting Month

2.8 The major site activities undertaken in the reporting month included:

1 able 2.2	Summary Table 101	Major Bite Acti	vities in the Reporting Month
Contract No.	Project Title	Site Activities	(November 2022)
NE/2015/01	Tseung Kwan O – Lam Tin Tunnel – Main Tunnel and Associated Works	Lam Tin Interchange	 Site Formation Area 1G1, 1G2, 2 & 5 Site Formation Slope Stabilization Site Formation Retaining Wall Administration Building West Ventilation Building Bridge Construction Noise Barrier / Noise Enclosure Emergency Stormwater Storage Tank + Stormwater Pumping Station S01_2, EHC1&4 Construction Semi Enclosure Structures CKLR Underground Utilities Landscape Deck & Noise Cover LTI Drainage Road EHC4 Noise Enclosure BBI Road Pavement
		Main Tunnel TKO Interchange	 18) Profile Barrier / VE Panel 19) S02_2 Excavation & Lining 20) Tunnel E&M Works 21) East Ventilation Building 22) External Road Pavement 23) Miscellaneous Works 24) Slope stabilization works
NE/2015/02	Tseung Kwan O – Lam Tin Tunnel – Road P2 and Associated Works	 Seawall construction Construction of dwarf wall Construction of profile barrier Construction of retaining wall VE/PC panel installation Backfilling E&M testing works 	
NE/2015/03	Tseung Kwan O – Lam Tin Tunnel – Northern Footbridge	The construction w	vorks under the contract had been completed in 'he EM&A works were terminated in late April

 Table 2.2
 Summary Table for Major Site Activities in the Reporting Month

Contract No.	Droject Title	Site Activities (Nevember 2022)
	Project Title	Site Activities (November 2022)
NE/2017/01	Tseung Kwan O –	1) Defects Rectification
	Lam Tin Tunnel –	2) Installation of Railing
	Tseung Kwan O	3) Waterproofing and Asphalt Pavement
	Interchange and	4) Road Marking
	Associated Works	
NE/2017/02	Tseung Kwan O –	1) Inspection pit excavation and utility diversion works
	Lam Tin Tunnel –	2) Road works
	Road P2/D4 and	3) Construction of drainage and watermain
	Associated Works	4) Asphalt Paving
		5) Pier, Staircase and Lift Shalt Construction
NE/2017/06	Tseung Kwan O –	
	Lam Tin Tunnel –	1) Installation works inside Administrative Building
	Traffic Control and	2) Goods arrival & storage on site
	Surveillance	3) Installation works inside WVB & EVB
	System(TCSS) and	4) Relocation to new site office
	Associated Works	
NE/2017/07	Cross Bay Link,	1) Road pavement works
	Tseung Kwan O –	2) Installation of parapet post and double rail
	Main Bridge and	3) Installation of balustrade and isolation panel post
	Associated Works	4) Installation of E&M works
		5) Top coating and painting repair
		6) Road pavement works
		7) Steel bridge pavement works
		8) Laying drainage aggregate
		9) Placing of DN300 fire main

2.9 The construction programme showing the inter-relationship with environmental protection/mitigation measures are presented in **Table 2.3**.

Table 2.3Construction Programme Showing the Inter-Relationship with
Environmental Protection/Mitigation Measures

Construction Works	Major Environmental Impact	Control Measures
As mentioned in Table 2.2	Noise, dust impact, water quality and waste generation	 Sufficient watering of the works site with active dust emitting activities Properly cover the stockpiles On-site waste sorting and implementation of trip ticket system Appropriate desilting/sedimentation devices provided on site for treatment before discharge Use of quiet plant and well-maintained construction plant Provide movable noise barrier

Status of Environmental Licences, Notification and Permits

2.10 A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project is presented in **Table 2.4**.

Table 2.4Summary of the Status of Environmental Licences, Notification
and Permits

	and Permits		Period		
Contract No.	Permit / License No.	From	То	Status	
Environmental	Permit (EP)				
N/A	EP-458/2013/C	20/1/2017	N/A	Valid	
Notification pu	rsuant to Air Pollution Co	ontrol (Constru	ction Dust) Regu	lation	
	EPD Ref no.: 405305	21/07/2016	N/A	Valid	
NE/2015/01	EPD Ref no.: 405582	28/07/2016	N/A	Valid	
NE/2015/02	EPD Ref no.: 406100	12/08/2016	N/A	Valid	
NE/2015/03	EPD Ref no.: 416072	26/04/2017	N/A	Valid	
NE/2017/02	EPD Ref no.: 429867	19/01/2018	N/A	Valid	
NE/2017/01	EPD Ref no.: 430070	25/01/2018	N/A	Valid	
NE/2017/06	EPD Ref no.: 461507	03/11/2020	N/A	Valid	
Billing Account	t for Construction Waste I	Disposal			
NE/2015/01	Account No. 7025431	11/07/2016	N/A	Valid	
NE/2015/02	Account No. 7025654	16/08/2016	N/A	Valid	
NE/2015/03	Account No. 7026805	30/12/2016	N/A	Valid	
NE/2017/02	Account No. 7029651	22/12/2017	N/A	Valid	
NE/2017/01	Account No. 7029994	01/02/2018	N/A	Valid	
NE/2017/06	Account No. 7032520	22/11/2018	N/A	Valid	
NE/2017/07	Account No. 7031412	24/07/2018	N/A	Valid	
Registration of	Chemical Waste Produce	r			
NE/2015/01	Waste Producer No. 5218-290-L2881-02	22/08/2016	N/A	Valid	
NE/2015/01	Waste Producer No. 5213-833-L2532-03	22/08/2016	N/A	Valid	
NE/2015/02	Waste Producer No. 5213-838-C4094-01	23/08/2016	N/A	Valid	
NE/2015/03	Waste Producer No. 5213-265-W3435-04	19/07/2017	N/A	Valid	
NE/2017/02	Waste Producer No. 5213-833-Z4004-04	01/02/2018	N/A	Valid	
NE/2017/01	Waste Producer No. 5213-833-C4262-01	12/02/2018	N/A	Valid	
NE/2017/07	Waste Producer No. 5213-839-C1232-19	28/08/2018	N/A	Valid	
Effluent Discha	Effluent Discharge License under Water Pollution Control Ordinance				
	WT00039948-2021	28/02/2022	30/11/2026	Valid	
	WT00040291-2022	13/01/2022	30/11/2026	Valid	
NE/2015/01	WT00041172-2022	09/06/2022	31/03/2027	Valid	
	WT00041237-2022	09/06/2022	31/03/2027	Valid	
	WT00041840-2022	17/08/2022	31/08/2027	Valid	
NE/2015/02	WT00030654-2018	16/04/2018	30/04/2023	Valid	
NE/2015/02	WT00040338-2022	28/01/2022	28/02/2027	Valid	
NE/2017/01	WT00030711-2018	11/04/2018	30/04/2023	Valid	

	D 4/1 N	Valid Period		S4 4
Contract No.	Permit / License No.	From	То	Status
	WT00030716-2018	23/05/2018	31/05/2023	Valid
NE/2017/02	WT00030654-2018	16/04/2018	30/04/2023	Valid
NTE (2017/07	WT00032842-2018	01/03/2019	31/03/2024	Valid
NE/2017/07	WT00034178-2019	15/07/2019	31/07/2024	Valid
Construction N	oise Permit (CNP)			
	GW-RE0862-22	10/09/2022	09/12/2022	Valid
	GW-RE0945-22	06/10/2022	10/11/2022	Valid until 10 Nov 2022
	GW-RE0988-22	30/09/2022	30/11/2022	Valid until 30 Nov 2022
	GW-RE0996-22	02/10/2022	13/11/2022	Valid until 13 Nov 2022
	GW-RE1076-22	20/10/2022	19/01/2023	Valid
	GW-RE1098-22	23/10/2022	27/11/2022	Valid until 27 Nov 2022
	GW-RE1100-22	30/10/2022	27/11/2022	Valid until 27 Nov 2022
NIE /2015/01	GW-RE1141-22	21/10/2022	31/12/2022	Valid
NE/2015/01	GW-RE1153-22	01/11/2022	10/11/2022	Valid until 10 Nov 2022
	GW-RE1154-22	05/11/2022	26/11/2022	Valid until 26 Nov 2022
	GW-RE1188-22	03/11/2022	20/01/2023	Valid
	GW-RE1213-22	10/11/2022	09/01/2023	Valid
	GW-RE1265-22	17/11/2022	02/02/2023	Valid
	GW-RE1270-22	10/12/2022	09/01/2023	Valid
	GW-RE1290-22	23/11/2022	30/11/2022	Valid until 30 Nov 2022
	GW-RE1303-22	04/12/2022	11/12/2022	Valid
NTE /2015/02	GW-RE0662-22	27/06/2022	24/12/2022	Valid
NE/2015/02	GW-RE0788-22	05/08/2022	02/03/2023	Valid
	GW-RE0450-22	13/05/2022	02/11/2022	Valid until 02 Nov 2022
NE/2017/01	GW-RE0717-22	11/07/2022	10/01/2023	Valid
	GW-RE1254-22	16/11/2022	15/05/2023	Valid
	GW-RE0826-22	22/08/2022	21/11/2022	Valid until 21 Nov 2022
	GW-RE0832-22	22/08/2022	21/11/2022	Valid until 21 Nov 2022
NE/2017/06	GW-RE1150-22	21/11/2022	20/05/2023	Valid
	GW-RE1170-22	21/11/2022	20/04/2023	Valid
NE/2017/07	GW-RE1021-22	01/10/2022	30/11/2022	Valid until 30 Nov 2022
Marine Dumpi	ng Permit	•	·	
NE/2017/01	EP/MD/21-011	N/A	N/A	N/A

Summary of EM&A Requirements

- 2.11 The EM&A programme requires construction noise monitoring, air quality monitoring, water quality monitoring, environmental site audit, etc. The EM&A requirements for each parameter are described in the following sections, including:
 - All monitoring parameters;
 - Action and Limit levels for all environmental parameters;
 - Event Action Plans;
 - Environmental mitigation measures, as recommended in the Project EIA Report.
- 2.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in **Section 10** of this report.
- 2.13 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the monitoring parameters of the required environmental monitoring works and audit works for the Project in the reporting month.

3. AIR QUALITY

Monitoring Requirements

3.1 According to EM&A Manual of the Project, 1-hour and 24-hour TSP monitoring are required to monitor the air quality. For regular impact monitoring, a sampling frequency of at least once in every six days shall be undertaken at all of the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six days shall be undertaken when the highest dust impact occurs. Appendix A shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Locations

3.2 Six designated monitoring stations were selected for air quality monitoring programme. **Table 3.1** describes the air quality monitoring locations, which are also depicted in **Figure 2**.

Monitoring Stations	Location	Location of Measurement
AM1	Tin Hau Temple	Ground Level
AM2	Sai Tso Wan Recreation Ground	Ground Level
AM3	Yau Lai Estate Bik Lai House	Rooftop (41/F)
AM4 ⁽¹⁾	Sitting-out Area at Cha Kwo Ling Village	Ground Level
AM4(B) ^{(2) (*)(^)}	Flat 103 Cha Kwo Ling Village	Ground Level
AM5(A) ^(*)	Tseung Kwan O DSD Desilting Compound	Ground Level
AM6(A) (*)	Park Central, L1/F Open Space Area	1/F

Table 3.1Locations for Air Quality Monitoring

Remarks: (1) For 1-hour TSP monitoring; (2) For 24-hour TSP monitoring

^(*) Air quality monitoring at designated station AM4(24hr TSP,)AM5 and AM6 was rejected by the premise owners. Therefore, baseline and impact air quality monitoring works were carried out at alternative air quality monitoring stations AM4(A)(24hr TSP only), AM5(A) and AM6(A) respectively.

^(^)In June 2022, the 24 TSP Monitoring at AM4(A) is suspended and under application for relocation, as the office had to be demolished. Once the proposal for relocation is approved, the monitoring at AM4(A) will be conducted at AM4(B). For the time being, as the station CKL2 for the 24 hr TSP monitoring, carried out under EM&A works for Trunk Road T2 Project (EP-451/2013), is located in close proximity to AM4(A); the results from CKL2 are adopted as reference for the 24 TSP monitoring at AM4(A), which has similar environment when compared with that for CKL2.

Monitoring Equipment

- 3.3 High Volume Samplers (HVS) were used to carry out 24-hour TSP monitoring. Direct reading dust meter were also used to measure 1-hour average TSP levels. The 1-hour sampling was determined periodically by HVS to check the validity and accuracy of the results measured by direct reading method.
- 3.4 Wind data monitoring equipment was set at rooftop (about 41/F) of Yau Lai Estate Bik Lai House for logging wind speed and wind direction such that the wind sensors are clear of obstructions or turbulence caused by building. The wind data monitoring equipment is re-calibrated at least once every six months and the wind directions are divided into 16 sectors of 22.5 degrees each. The location is shown in **Figure 2**.

3.5 **Table 3.2** summarizes the equipment to be used in the air quality monitoring. Copies of calibration certificates are attached in **Appendix B**.

Equipment	Equipment Model and Make	
Calibrator	TISCH Model: TE-5025A 1	
	Sibata Model No.: LD-3B / LD-5R	7
1-hour TSP Dust Meter	Met One Instruments Model No.: AEROCET-831	0
	Handheld Particle Counter Hal-HPC300 / Hal-HPC301	0
UVC Commission	TISCH Model: TE-5170	1
HVS Sampler	GMW Model: GS2310	5
	Davis Weather Monitor II, Model no. 7440	1
Wind Anemometer	Davis Weather Stations, Vantage Pro 2, Model No. 6152CUK	0

Table 3.2 Air Quality Monitoring Equipment

Monitoring Parameters and Frequency

3.6 **Table 3.3** summarizes the monitoring parameters, monitoring period and frequencies of air quality monitoring.

Table 3.3 Frequency and Parameters of Air Quality Monitoring

Monitoring Stations	Parameter	Frequency
AM1, AM2, AM3, AM4, AM5(A) and AM6(A)	1-hour TSP	3 times per 6 days
AM1, AM2, AM3, AM4(B), AM5(A) and AM6(A)	24-hour TSP	Once per 6 days

Monitoring Methodology

1-hour TSP Monitoring

Measuring Procedures

3.7 The measuring procedures of the 1-hour dust meter are in accordance with the Manufacturer's Instruction Manual as follows:

(Model LD3 / LD3B / LD5R)

- The 1-hour dust meter is placed at least 1.3 meters above ground.
- Set POWER to "ON" and make sure that the battery level was not flash or in low level.
- Allow the instrument to stand for about 3 minutes and then the cap of the air sampling inlet has been released.
- Push the knob at MEASURE position.
- Set time/mode setting to [BG] by pushing the time setting switch. Then, start the background measurement by pushing the start/stop switch once. It will take 6 sec. to complete the background measurement.
- Push the time setting switch to change the time setting display to [MANUAL] at the bottom left of the liquid crystal display. Finally, push the start/stop switch to stop the measuring after 1 hour sampling.
- Information such as sampling date, time, count value and site condition were recorded during the monitoring period.

(AEROCET-531)

- The 1-hour dust meter is placed at least 1.3 meters above ground.
- Remove the red rubber cap from the AEROCET-531 inlet nozzle.
- Turn on the power switch that is located on the right side of the AEROCET-531.
- On power up the product intro screen is displayed for 3 seconds. The intro screen displays the product name and firmware version.
- Then the main counter screen will be displayed.
- Press the START button. Internal vacuum pump start running. After 1 minute the pump will stop and the 0.5µm and 5µm channels will show the cumulative counts of particles larger than 0.5µm and 5µm per cubic foot.
- The AEROCET-531 is now checked out and ready for use.
- To switch off the AEROCET-531 power to stop the measuring after 1 hour sampling.
- Information such as sampling date, time, and display value and site condition were recorded during the monitoring period.
- •
- (Equipment: Hal Technology; Model no. Hal-HPC300 / Hal-HPC301)
- The 1-hour dust meter is placed at least 1.3 meters above ground.
- Set POWER to "ON" and make sure that the battery level was not flash or in low level.
- Allow the instrument to stand for about 3 minutes and then the cap of the air sampling inlet has been released.
- Push the knob at MEASURE position.
- Set time/mode setting to [BG] by pushing the time setting switch. Then, start the background measurement by pushing the start/stop switch once. It will take 6 sec. to complete the background measurement.
- Push the time setting switch to change the time setting display to [MANUAL] at the bottom left of the liquid crystal display. Finally, push the start/stop switch to stop the measuring after 1 hour sampling.
- Information such as sampling date, time, count value and site condition were recorded during the monitoring period.

Maintenance/Calibration

- 3.8 The following maintenance/calibration is required for the direct dust meters:
 - Check and calibrate the meter by HVS to check the validity and accuracy of the results measured by direct reading method at 2-month intervals throughout all stages of the air quality monitoring.

24-hour TSP Monitoring

Instrumentation

- 3.9 High volume samplers (HVS) (TISCH Model: TE-5170 and GMW Model: GS2310) completed with appropriate sampling inlets were employed for 24-hour TSP monitoring. The sampler is composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).
- 3.10 The positioning of the HVS samplers are as follows:
 - a horizontal platform with appropriate support to secure the samplers against gusty wind shall be provided;
 - no two samplers shall be placed less than 2 meters apart

- the distance between the sampler and an obstacle, such as buildings, must be at least twice the height that the obstacle protrudes above the sampler;
- a minimum of 2 metres of separation from walls, parapets and penthouses is required for rooftop samplers;
- a minimum of 2 metres of separation from any supporting structure, measured horizontally is required;
- no furnace or incinerator flue is nearby;
- airflow around the sampler is unrestricted;
- the sampler is more than 20 metres from the dripline;
- any wire fence and gate, to protect the sampler, shall not cause any obstruction during monitoring;
- permission must be obtained to set up the samplers and to obtain access to the monitoring stations; and
- a secured supply of electricity is needed to operate the samplers.

Operating/analytical procedures for the operation of HVS

- 3.11 Prior to the commencement of the dust sampling, the flow rate of the high-volume sampler was properly set (between $1.1 \text{ m}^3/\text{min.}$ and $1.4 \text{ m}^3/\text{min.}$) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- 3.12 For TSP sampling, fiberglass filters with a collection efficiency of > 99% for particles of 0.3µm diameter were used.
- 3.13 The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- 3.14 The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centred with the stamped number upwards, on a supporting screen.
- 3.15 The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- 3.16 The shelter lid was closed and secured with the aluminium strip.
- 3.17 The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- 3.18 After sampling, the filter was removed and sent to the HOKLAS laboratory (ALS Hong Kong) for weighing. The elapsed time will be also recorded.
- 3.19 Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than ± 3 °C; the relative humidity (RH) should be < 50% and not vary by more than $\pm 5\%$. A convenient working RH is 40%.

Maintenance/Calibration

- 3.20 The following maintenance/calibration is required for the HVS:
 - The high-volume motors and their accessories will be properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking will be made to ensure that the equipment and necessary power supply are in good working condition.
 - High volume samplers will be calibrated at bi-monthly intervals using TE-5025A Calibration Kit throughout all stages of the air quality monitoring.

Results and Observations

- 3.21 No Action/Limit Level exceedance was recorded for 1-hour TSP monitoring.
- 3.22 No Action and no Limit Level exceedance was recorded for 24-hour TSP monitoring.
- 3.23 The air temperature, precipitation and the relative humidity data was obtained from Hong Kong Observatory where the wind speed and wind direction were recorded by the installed Wind Anemometer at rooftop of Yau Lai Estate Bik Lai House (41/F). The location is shown in **Figure 2**. This weather information for the reporting month is summarized in **Appendix C**.
- 3.24 The monitoring data and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendix E** and **Appendix F** respectively.
- 3.25 According to our field observations, the major dust source identified at the designated air quality monitoring stations are as follows:

Station	Major Dust Source
AM1 – Tin Hau Temple	Road Traffic at Cha Kwo Ling Road
AM2 – Sai Tso Wan Recreation Ground	N/A
AM3 – Yau Lai Estate Bik Lai House	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza
AM4 - Sitting-out Area at Cha Kwo Ling Village	Road Traffic at Cha Kwo Ling Road
AM4(B) – Flat 103 Cha Kwo Ling Village*	Road Traffic at Cha Kwo Ling Road
AM5(A) - Tseung Kwan O DSD Desilting Compound	Vehicle Movement within the Desilting Compound
AM6(A) - Park Central, L1/F Open Space Area	Road Traffic at Po Yap Road

 Table 3.4
 Major Dust Source during Air Quality Monitoring

* In June 2022, the 24 TSP Monitoring at AM4(A) is suspended and under application for relocation, as the office had to be demolished. Once the proposal for relocation is approved, the monitoring at AM4(A) will be conducted at AM4(B). For the time being, as the station *CKL2* for the 24 hr TSP monitoring, carried out under EM&A works for Trunk Road T2 Project (EP-451/2013), is located in close proximity to AM4(A); the results from *CKL2* are adopted as reference for the 24 TSP monitoring at AM4(A), which has similar environment when compared with that for *CKL2*.

4. NOISE

Monitoring Requirements

4.1 According to EM&A Manual of the Project, construction noise monitoring was conducted to monitor the construction noise arising from the construction activities. The regular monitoring frequency for each monitoring station shall be on a weekly basis and conduct one set of measurements between 0700 and 1900 hours on normal weekdays. Appendix A shows the established Action and Limit Levels for the environmental monitoring works.

Monitoring Locations

4.2 Noise monitoring was conducted at 8 designated monitoring stations (CM1, CM2, CM3, CM4, CM5, CM6 (A), CM7 (A), and CM8 (A) in the reporting period. **Table 4.1** and **Figure 3** show the locations of these stations.

Monitoring Stations	Locations	Location of Measurement	
CM1	Nga Lai House, Yau Lai Estate Phase 1, Yau Tong	Rooftop (41/F)	
CM2	Bik Lai House, Yau Lai Estate Phase 1, Yau Tong	Rooftop (41/F)	
CM3	Block S, Yau Lai Estate Phase 5, Yau Tong	Rooftop (40/F)	
CM4	Tin Hau Temple, Cha Kwo Ling	Ground Level	
CM5	CCC Kei Faat Primary School, Yau Tong	Rooftop (6/F)	
CM6(A)*	Site Boundary of Contract No. NE/2015/02 near Tower 1, Ocean Shores	Ground Level	
CM7(A)*	Site Boundary of Contract No. NE/2015/02 near Tower 7, Ocean Shores	Ground Level	
CM8(A)*	Park Central, L1/F Open Space Area	1/F	

 Table 4.1
 Noise Monitoring Stations

Remarks:

* Noise monitoring at designated station CM6, CM7 & CM8 was rejected by the premise owners. Therefore, baseline and impact noise monitoring works were carried out at alternative noise monitoring stations CM6(A), CM7(A) and CM8(A) respectively.

Monitoring Equipment

4.3 Integrating Sound Level Meter was used for impact noise monitoring. The meters are Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (L_{eq}) and percentile sound pressure level (L_x) that also complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. **Table 4.2** summarizes the noise monitoring equipment being used. Copies of calibration certificates are attached in **Appendix B**.

Table 4.2 Noise Monitoring Equipment	Table 4.2	Noise Monitoring Equipment
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Equipment	Model and Make	Quantity
Integrating Sound Lough Motor	SVAN 957/ 959 / 979	3
Integrating Sound Level Meter	BSWA308 SLM	2
	SV30A	1
Calibrator	Brüel & Kjær 4231	0
	ST-120	1

4.4 **Table 4.3** summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix D**. Additional weekly impact monitoring are carried out for evening time (1900 – 2300 hours) for monitoring stations CM1, CM2, CM3 & CM6(A) and night-time (2300 – 0700 hours) for monitoring stations CM1, CM2 & CM3.

Monitoring Stations	Parameter	Period	Frequency	Measurement
CM1				Façade
CM2				Façade
CM3	$\begin{array}{c} L_{10}(30 \text{ min}) \\ dB(A) \end{array}$			Façade
CM4	$L_{90}(30 \text{ min})$	0700-1900 hrs on		Façade
CM5	dB(A)	normal weekdays		Façade
CM6(A)	$L_{eq}(30 \text{ min})$ dB(A)		0	Free Field
CM7(A)	uD(II)		Once per week	Free Field
CM8(A)				Façade
CM1	L ₁₀ (5 min)			Façade
CM2	dB(A)	1900 – 0700 hrs on normal weekdays		Façade
CM3	$\begin{array}{c} L_{90}(5 \text{ min}) \\ dB(A) \end{array}$	normar weekdays		Façade
CM6(A)	L _{eq} (5 min) dB(A)	1900 – 2300 hrs on normal weekdays		Free Field

Table 4.3 Frequency and Parameters of Noise Monitoring

Monitoring Methodology and QA/QC Procedure

- 4.5 The monitoring procedures are as follows:
 - The monitoring station was normally be at a point 1m from the exterior of the sensitive receivers building façade and be at a position 1.2m above the ground.
 - For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels was adjusted with a correction of +3 dB(A).
 - The battery condition was checked to ensure the correct functioning of the meter.
 - Parameters such as frequency weighting, the time weighting and the measurement time was set as follows:
 - frequency weighting: A
 - time weighting : Fast
 - measurement time : 30 minutes
 - Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement will be more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
 - At the end of the monitoring period, the L_{eq} , L_{90} and L_{10} was recorded. In addition, noise sources was recorded on a standard record sheet.
 - Noise monitoring will be cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. Supplementary monitoring was provided to ensure sufficient data would be obtained.

Maintenance and Calibration

- 4.6 The microphone head of the sound level meter and calibrator was cleaned with a soft cloth at quarterly intervals.
- 4.7 The sound level meter and calibrator was checked and calibrated at yearly intervals.
- 4.8 Immediately prior to and following each noise measurement the accuracy of the sound level meter was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

Results and Observations

- 4.9 No project-related Limit Level exceedance during daytime was recorded due to monitoring results in this reporting month. No project-related Limit level exceedances for evening/night-time construction noise monitoring was recorded.
- 4.10 Noise monitoring results and graphical presentations are shown in Appendix G.
- 4.11 The major noise source identified at the noise monitoring stations are shown in **Table 4.4**.

Monitoring Stations	Locations	Major Noise Source
CM1	Nga Lai House, Yau Lai Estate Phase 1, Yau Tong	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza
CM2	Bik Lai House, Yau Lai Estate Phase 1, Yau Tong	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza
CM3	Block S, Yau Lai Estate Phase 5, Yau Tong	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza
CM4	Tin Hau Temple, Cha Kwo Ling	Road Traffic at Cha Kwo Ling Road
CM5	CCC Kei Faat Primary School, Yau Tong	Road Traffic at Yau Tong Road
CM6(A)	Site Boundary of Contract No. NE/2015/02 near Tower 1, Ocean Shores	Road Traffic at O King Road near Ocean Shores
CM7(A)	Site Boundary of Contract No. NE/2015/02 near Tower 7, Ocean Shores	Road Traffic at Tong Yin Street
CM8(A)	Park Central, L1/F Open Space Area	Road Traffic at Po Yap Road

 Table 4.4
 Major Noise Source during Noise Monitoring

4.12 All the Construction Noise Levels (CNLs) reported in this report were adjusted with the corresponding baseline level (i.e. Measured L_{eq} – Baseline L_{eq} = CNL), in order to facilitate the interpretation of the noise exceedance. The baseline noise level and the Noise Limit Level at each designated noise monitoring station are presented in **Table 4.5**, **4.6 and 4.7**.

Station	Baseline Noise Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)	Noise Limit Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)	
CM1	65.5		
CM2	63.6	75	
CM3	65.6	- 75	
CM4	62.0		
CM5	68.2	70*	
CM6(A)	61.9	75	
CM7(A)	58.3		
CM8(A)	69.1		

Table 4.6Baseline Noise Level and Noise Limit Level for Monitoring Stations
(Evening-time & Daytime (Holiday))

Station	Baseline Noise Level, dB (A) (Evening time on all days (1900-2300 hrs) and Holidays (including Sundays) during daytime (0700-1900 hrs))	Noise Limit Level, dB (A) (Evening time on all days (1900-2300 hrs) and Holidays (including Sundays) during daytime (0700-1900 hrs))	
CM1	64.4		
CM2	62.2	70	
CM3	64.7		
CM6(A)	60.2	651	
1. ASR B was adopted according to the EIA as traffic in the surrounding area has not been changed.			

Table 4.7Baseline Noise Level and Noise Limit Level for Monitoring Stations
(Night-time)

Station	Baseline Noise Level, dB (A) (Night-time (2300 – 0700 hrs)	Noise Limit Level, dB (A) (Night-time (2300 – 0700 hrs)
CM1	14-day baseline monitoring results for the	
CM2	time period of impact measurement at each	55
CM3	station would be adopted	

5. WATER QUALITY

Monitoring Requirements

Groundwater Quality

5.1 The existing groundwater quality monitoring programme has been suspended as the monitoring results had been deemed non-representative of the impact from the project justified by two major factors: (1) influence on the monitoring results from non-project related factors, such as anthropogenic activities and natural phenomenon; and (2) large separation between the monitoring stations and works area. In addition, as no alternative locations for the groundwater quality monitoring were available, the groundwater quality monitoring has been suspended since October 2019 upon the agreement by EPD.

Marine Water Quality

- 5.2 Marine water quality monitoring was conducted three times per week at the designated monitoring stations. Monitoring took place two times per monitoring day during mid ebb and mid flood tides at three depths (1 meter from surface, mid depth and 1 meter from the bottom). For Tseung Kwan O Salt Water Intake (i.e. Station M6), water sampling and in-situ measurements was taken at the vertical level where the water abstraction point of the intake is located (i.e. approximately mid-depth level). If the water depth is less than 6m, the mid-depth measurement may be omitted. If the depth is less than 3m, only the mid-depth measurements need to be taken.
- 5.3 Duplicate in-situ measurements (Dissolved oxygen (DO) concentration, DO saturation, turbidity, pH, temperature and salinity) and water samples (suspended solids (SS)) at each depth were monitored in accordance with the requirements in the EM&A Manual. For selection of tides for in-situ measurement and water sampling, tidal range of individual flood and ebb tides were not less than 0.5m.
- 5.4 According to the Environmental Review Report (ERR) for Variations of Environmental Permit (Ref: C45-03), water quality monitoring and audit programme was implemented for monitoring of oxygen depletion (e.g. Dissolved Oxygen (DO) level) in this embayed waters during the period when the fully enclosed barrier is installed. A "Proposal for Water Quality Monitoring in Temporary Marine Embayment" has been submitted to EPD in July 2017 to propose the monitoring frequency, parameter, location, etc. EPD has no further comment on the Proposal. Since January 2020, the cofferdam has been partially removed and the seawater is no longer enclosed. Therefore, no embayment water quality monitoring is required.

Groundwater Level Monitoring (Piezometer Monitoring)

5.5 Daily piezometer monitoring at any time of the day shall be carried throughout the whole period when any tunnel construction activities are carried out within +/- 50m of the piezometer gate in plan. The monitoring commenced in June 2018. It has switched to monthly basis since 3 October 2018 as the construction activity was 120m away from the piezometer gate. No monitoring was conducted in the reporting month.

Monitoring Locations

Marine Water Quality

5.6 A total of twelve monitoring stations are designated for the water quality monitoring program according to EM&A Manual. One additional monitoring station (W1) is designated for monitoring of oxygen depletion in the embayed waters during the period when the fully enclosed barrier is installed. In addition, an extra monitoring station (W2) was set up in December 2021 for post-reclamation marine water monitoring. The locations are also summarized in **Table 5.2**. Their locations shown on **Figure 5** with the exception of W2, which was presented in **Figure 9**.

Monitoring	Descriptions	Coordinates	
Stations	Descriptions	Easting	Northing
M1	Junk Bay Coral Site – Junk Bay near Chiu Keng Wan	844255	817565
M2	Junk Bay Coral Site – Junk Bay	844076	817087
M3	Junk Bay Coral Site – Junk Island	844491	817890
M4	Junk Bay Coral Site – Chiu Keng Wan	843209	816416
M5	Junk Bay Coral Site – Fat Tong Chau	845463	815769
M6	Tseung Kwan O Salt Water Intake	845512	817442
C1	Control Station – Southeast	844696	814773
C2	Control Station – Northwest	842873	816014
G1	Gradient Station	844418	817560
G2	Gradient Station	844290	817384
G3	Gradient Station	844488	817735
G4	Gradient Station	844967	817551
W2	Embayed Area formed by TKO-LT Tunnel Reclamation	844313	817801

 Table 5.2
 Marine Quality Monitoring Stations

Monitoring Equipment

5.7 For in-situ monitoring, a multi-parameter meter was used to measure Dissolved oxygen (DO) concentration, DO saturation (DO %), pH, temperature and turbidity. A sampler was used to collect water samples for laboratory analysis of SS, BOD₅, TOC, Total Nitrogen, Ammonia-N and Total Phosphate.

Dissolved Oxygen (DO) and Temperature Measuring Equipment

- 5.8 The instrument for measuring dissolved oxygen and temperature was portable and weatherproof complete with cable, sensor, comprehensive operation manuals and use DC power source. It was capable of measuring:
 - a dissolved oxygen level in the range of 0-20 mg/L and 0-200% saturation; and
 - a temperature of 0-45 degree Celsius.
- 5.9 It has a membrane electrode with automatic temperature compensation complete with a cable.
- 5.10 Sufficient stocks of spare electrodes and cables were available for replacement where necessary.

5.11 Salinity compensation was built-in in the DO equipment.

<u>Turbidity</u>

5.12 Turbidity was measured in-situ by the nephelometric method. The instrument was portable and weatherproof using a DC power source complete with cable, sensor and comprehensive operation manuals. The equipment was capable of measuring turbidity between 0-1000 NTU. The probe cable was not be less than 25m in length.

<u>pH</u>

5.13 The instrument was consisting of a potentiometer, a glass electrode, a reference electrode and a temperature-compensating device. It was readable to 0.1pH in a range of 0 to 14. Standard buffer solutions of at least pH 7 and pH 10 were used for calibration of the instrument before and after use.

Water Depth Detector

5.14 A portable, battery-operated echo sounder was used for the determination of water depth at each designated monitoring station.

Water Sampler

5.15 Water samples collected for laboratory analysis were stored in high density polythene bottles sample containers, with appropriate preservatives added. All sampling bottles were labelled (waterproof) with the sampling date and time, sample lot number and sampling location reference number to avoid mishandling.

Sample Container and Storage

5.16 Following collection, water samples for laboratory analysis were stored in high density polythene bottles, with preservative appropriately added where necessary. They will be packed in ice (cooled to 4°C without being frozen), delivered to the laboratory and analysed as soon as possible.

Calibration of In-Situ Instruments

- 5.17 All in-situ monitoring instruments were checked, calibrated and certified by a laboratory accredited under HOKLAS or other international accreditation scheme before use, and subsequently re-calibrated at 3 monthly intervals throughout all stages of the water quality monitoring.
- 5.18 For the on-site calibration of field equipment, the BS 1427:1993, "Guide to Field and on-site test methods for the analysis of waters" was observed.
- 5.19 Before each round of monitoring, a zero check in distilled water was performed with the turbidity probe. The probe was then be calibrated with a solution of known NTU.
- 5.20 Sufficient stocks of spare parts were maintained for replacements when necessary. Backup monitoring equipment was also made available so that monitoring can proceed uninterrupted even when some equipment is under maintenance, calibration, etc.
- 5.21 **Table 5.3** summarizes the equipment used in the water quality monitoring program. Copies of the calibration certificates of the equipment are shown in **Appendix B**.

Equipment	Model and Make	Qty.
Water Sampler	Kahlsico Water-Bottle Model 135DW 150	1
Multi-parameter Water Quality System	YSI 6820-C-M	0
	Aquaread AP-2000-D	0
Quanty System	YSI EXO1 Multiparameter Sondes	1
Monitoring Position Equipment	"Magellan" Handheld GPS Model GPS-320	1
Water Depth Detector	Fishfinder 140	1

 Table 5.3
 Water Quality Monitoring Equipment

Monitoring Parameters and Frequency

5.22 **Table 5.4** summarizes the monitoring parameters, monitoring period and frequencies of the water quality monitoring in the reporting period.

Monitoring Stations	Parameters, unit	Depth	Frequency			
Marine Wate	Marine Water Quality					
M1 M2 M3 M4 M5 M6 C1 C2 G1 G2 G3 G4	<u>In-situ:</u> Dissolved oxygen (DO) concentration, DO saturation, turbidity, pH, temperature and salinity <u>Laboratory Testing:</u> Suspended Solids (SS)	 M1-M5, C1-C2, G1- G4 3 water depths: 1m below water surface, mid-depth and 1m above sea bed. If the water depth is less than 3m, mid- depth sampling only. If the water depth is less than 6m, omit mid-depth sampling. <u>M6</u> at the vertical level where the water abstraction point of the intake is located(i.e. approximately mid- depth level) 	3 days per week / 2 per monitoring day (1 for mid-ebb and 1 for mid- flood)			
W2	<u>In-situ:</u> Dissolved oxygen (DO), pH, temperature and salinity	 3 water depths: 1m below water surface, mid-depth and 1m above sea bed. If the water depth is less than 3m, mid- depth sampling only. If the water depth is less than 6m, omit mid-depth sampling. 	Once per month			

Table 5.4Water Quality Monitoring Parameters and Frequency

Monitoring Methodology

Marine Water Quality

- 5.23 The monitoring stations were accessed using survey boat by the guide of a hand-held Global Positioning System (GPS). The depth of the monitoring location was measured using depth meter in order to determine the sampling depths. Afterwards, the probes of the in-situ measurement equipment was lowered to the predetermined depths (1 m below water surface, mid-depth and 1 m above seabed) and the measurements was carried out accordingly. The in-situ measurements at predetermined depths was carried out in duplicate. In case the difference in the duplicate in-situ measurement results was larger than 25%, the third set of in-situ measurement would be carried out for result confirmation purpose.
- 5.24 Water sampler was lowered into the water to the required depths of sampling. Upon reaching the pre-determined depth, a messenger to activate the sampler was then released to travel down the wire. The water sample was sealed within the sampler before retrieving. At each station, water samples for SS at three depths (1 m below water surface, mid-depth and 1 m above seabed) were collected accordingly. Water samples were stored in a cool box and kept at less than 4°C but without frozen and sent to the laboratory as soon as possible.

Laboratory Analytical Methods

5.25 The testing of all parameters were conducted by ALS Hong Kong (HOKLAS Registration No.083) and comprehensive quality assurance and control procedures in place in order to ensure quality and consistency in results. The testing method and limit of reporting are provided in **Table 5.5**.

Parameters (Unit)	Proposed Method	Reporting Limit	Detection Limit
SS (mg/L)	APHA 2540 D	0.5 mg/L $^{(1)}$	0.5 mg/L
BOD ₅ (mg O ₂ /L)	APHA 19ed 5210B	2 mg O ₂ /L	
TOC (mg-TOC/L)	In-house method SOP020 (Wet Oxidation)	1 mg-TOC/L	
Total Nitrogen (mg/L)	In-house method SOP063 (FIA)	0.6 mg/L	
Ammonia-N (mg NH ₃ -N/L)	In-house method SOP057 (FIA)	0.05 mg NH ₃ -N/L	
Total Phosphorus (mg-P/L) ⁽²⁾	In-house method SOP055 (FIA)	0.05 mg-P/L	

 Table 5.5
 Methods for Laboratory Analysis for Water Samples

Note:

1) Limit of Reporting is reported as Detection Limit for non-HOKLAS report.

2) Parameter Total Phosphorus represents the laboratory testing for total phosphate content in water which is the sum of all three forms of phosphates in water.

QA/QC Requirements

Decontamination Procedures

5.26 Water sampling equipment used during the course of the monitoring programme was decontaminated by manual washing and rinsed clean seawater/distilled water after each sampling event. All disposal equipment was discarded after sampling.

Sampling Management and Supervision

- 5.27 Water samples were dispatched to the testing laboratory for analysis as soon as possible after the sampling. All samples were stored in a cool box and kept at less than 4°C but without frozen. All water samples were handled under chain of custody protocols and relinquished to the laboratory representatives at locations specified by the laboratory.
- 5.28 QA/QC procedures as attached in **Appendix J** are available for the parameters analysed in the HOKLAS-accredited laboratory, ALS Hong Kong.

Results and Observations

Groundwater Quality Monitoring

5.29 Monitoring of groundwater quality had been suspended since October 2019. (Details refer to Section 5.1)

Marine Water Quality Monitoring

- 5.30 Marine water monitoring results and graphical presentations are shown in **Appendix I**. Other relevant data was also recorded, such as monitoring location / position, time, sampling depth, weather conditions and any special phenomena or work underway nearby.
- 5.31 Calculated Action and Limit Levels for Marine Water Quality is presented in Appendix
 I. There were twenty-one (21) Action Level and sixty-six (66) Limit Level exceedances recorded in Monitoring Stations (M) during marine water quality monitoring.
- 5.32 The monitoring result for post-reclamation marine water quality monitoring is present in **Appendix W**. No action or limit level of dissolved oxygen is recorded in the reporting month.
- 5.33 Exceedances of turbidity and suspended solid were recorded on from various monitoring stations non-specifically among all stations including the control stations. Investigations over November 2022 showed that the range of SS levels recorded in November 2022 remained consistent with the records in recent months. All Contractor is reminded to strictly follow the approved drainage plan and clear drainage regularly. In particular, all drainage shall be checked and cleared after heavy rainstorm as sediments may accumulate along pipes and culverts. Further details can be found in **Appendix K**.
- 5.34 Silt curtain inspections are carried out before the commencement of the construction works every day and diving surveys are also conducted once a week to inspect the silt curtain below the water level. The inspection report are verified by both the RE and the diving specialist and the records are reviewed weekly during the site audits.

Groundwater Level Monitoring (Piezometer Monitoring)

- 5.35 Daily piezometer monitoring at any time of the day shall be carried throughout the whole period when any tunnel construction activities are carried out within +/- 50m of the piezometer gate in plan.
- 5.36 Construction phase daily piezometer monitoring by the Contractor commenced in June 2018. As the construction activity was 120m away from the piezometer gate, no monitoring was conducted in this reporting month.

Mitigation Measures Adopted by Contractors for Surface runoff Prevention

5.37 During dry season, the Contractors have maintained the mitigation measures adopted on Site, in order to prevent surface run-off and muddy water from discharging to the public areas. The mitigation measures adopted by each Contract are summarised below:

<u>NE2015/01</u>

- 5.38 At Lam Tin Side, the Site drainage systems are divided into two parts, namely the site formation and tunnel site drainage which includes:
 - 1. Site formation drainage system collects surface run-off from open excavation areas including slope works and flows naturally to the lowest point in the Site, where they are pumped to the wetseps and sedimentation tank for treatment near LTI site entrance before they are discharged to the designated discharge point.
 - 2. Tunnel drainage system collects surface run-off from the tunnel which are then pumped to the sedimentation tanks near tunnel adit, where three sets of wetseps and sedimentation tanks were set up. The treated water will be discharged to designated discharge point near the Eastern Harbour Crossing (EHC) area.
- 5.39 At Eastern Harbour Crossing (EHC), two sets of wetseps and sedimentation tanks are set up on site. The wastewater will flow to the lowest catchpit by gravity, which are then pumped to wetseps for wastewater treatment. The sandbags/bunds are also set up at the vehicle entrance to surface run-off from the Site.
- 5.40 At Tseung Kwan O (TKO), the surface run-off from the slope are directed to the lowest point at cavern via the permanent drainage, which are then pumped to the sedimentation tanks for wastewater treatment via temporary pipes. The treated water will be discharged at designated discharge points. The wetseps and sedimentation tanks are provided under the BMCPC bridge and at the two sides of marine working platform. Water from natural stream will also be diverted to existing drainage to avoid overloading the capacity of the wastewater treatment system. The reservoir on the right side of marine working platform will be enlarged to cater for higher water storage demands. During heavy rainfall, the water stored at the exit of the tunnel shall be pumped into the sedimentation tanks on the right.

<u>NE2015/02</u>

5.41 The exposed sloped area at Portion 9 has been covered with geotextile or tarpaulin to avoid surface run-off. Since March 2021, the stormwater at Portion IX, VIII, VII, VI, II and I will be collected towards to the sedimentation tanks at the edge of site boundary.

- 5.42 Certain amount of stormwater received in Portion 9 will be directed and pumped via the flex tube and sump towards the water treatment system and the approved discharge points (as shown in **Appendix V**). Water generated from Portion VI and V and some water in Portion IX are treated via storage tanks and sedimentation tanks and discharged into approved discharge points (manholes of DN2100 Drain and Area Z).
- 5.43 The peripheral open U-channel are also provided along the site boundary, which shall be directed to the storage tank and WetSep for treatment in Area A.
- 5.44 Regular cleaning depending on site conditions are provided for the WetSep at Area A and Z; and the storage tanks and sedimentation tanks at Area A. The water treated by the sedimentation tank and the wetsep shall be discharged towards the designated discharge point. Quality of the effluent are also monitored regularly.

<u>NE2017/02</u>

- 5.45 Existing manholes are covered with sandbags and geotextiles to avoid surface run-off from entering the channels.
- 5.46 Stockpiles are covered with tarpaulin to avoid surface run-off.
- 5.47 Concrete blocks and sandbags are placed along the periphery of the site boundary to avoid surface run-off.
- 5.48 Stormwater within the site enters the excavated area and flow naturally into the sump due height difference. The stormwater collected in the sump shall be pumped into the sedimentation tank where the run-off is treated before discharging into the designated discharge point.

<u>NE2015/03</u>

- 5.49 The existing manhole cover are covered with geotextile to prevent muddy water from entering the existing U-channels along the side of Po Shun Road. Manhole inspection are carried out by taking silt measurement regularly in case if silt enters the channel, and silt shall be removed from the manhole if silt were found.
- 5.50 Sandbags were placed at the periphery of the site along the hoarding to prevent surface runoff from escaping the site.
- 5.51 Exposed slopes are covered with tarpaulin to prevent surface run-off.
- 5.52 The surface run-off shall be pumped into the sedimentation tank where they are treated before entering the designated discharge points.

<u>NE2017/01</u>

5.53 Temporary peripheral open U-channels and sumps are provided for collecting the stormwater, which are pumped and directed towards the sedimentation tank for treatment. The treated water shall be directed to the designated discharge point.

6. ECOLOGY

Post-Translocation Coral Monitoring

- 6.1 Post-translocation monitoring survey is recommended in the EM&A Manual to audit the success of coral translocation. Information gathered during each post-translocation monitoring survey should include observations on the presence, survival, health condition and growth of the translocated coral colonies. These parameters should then be compared with the baseline results collected from the pre-translocation survey.
- 6.2 Under Contract No. NE/2015/01 and NE/2015/02, a total of 14 and 29 coral colonies were tagged and translocated respectively from the Donor Site to the Recipient Site in November 2016. Ten (10) corals at the Recipient Site were also tagged by each Contract as reference for post-translocation monitoring.
- 6.3 The post-translocation coral monitoring shall be conducted once every 3 months after completion for a period of 12 months. Location of post-translocation coral monitoring is shown in **Figure 7**. The fourth post-translocation coral monitoring was carried out on 07 November 2017. No further monitoring is required.

7. CULTURAL HERITAGE

Monitoring Requirement

- 7.1 According to the EP Conditions and EM&A Manual, monitoring of vibration impacts was conducted when the construction works are less than 100m from the Built Heritage in close proximity of the worksite, namely the Cha Kwo Ling Tin Hau temple. Tilting and settlement monitoring should be applied on the Cha Kwo Ling Tin Hau Temple. Construction works less than 100m from the Cha Kwo Ling Tin Hau temple commenced on 8 May 2017.
- 7.2 As stated in the "*Built Heritage Mitigation Plan*" for this Project, during the period of the construction works conducted within 100m from the Cha Kwo Ling Tin Hau Temple, monitoring on settlement and tilting will be conducted once a day for the Cha Kwo Ling. Monitoring of vibration will be conducted during blasting at Cha Kwo Ling area once a day. When there is no blasting to be conducted at the area, vibration monitoring at the Cha Kwo Ling Tin Hau Temple will be conducted once per day when there are piling works or rock breaking works within the 100m from the Cha Kwo Ling Tin Hau Temple.

Monitoring Locations

7.3 One vibration monitoring point and three building settlement monitoring points were proposed for monitoring of the cultural heritage. The building settlement markers were placed on the wall on three sides of the Temple, except the front, of the Cha Kwo Ling Tin Hau Temple and the vibration monitoring point is located within the Cha Kwo Ling Tin Hau Temple. Monitoring Location is shown in **Figure 8**.

Monitoring Equipment

- 7.4 Building settlement is measured via a settlement marker attached to the wall of Cha Kwo Ling Tin Hau Temple by adhesive tape.
- 7.5 Vibration monitoring was conducted by using vibrographs: MicroMate manufactured by Instantel. These vibrographs will be calibrated annually and its performance follows the requirements given in the "*Guidance Note on Vibration Monitoring*" (GN-VM) issued by the Civil Engineering and Development Department, which is based on the Performance Specification for Blasting Seismographs by International Society of Explosive Engineers (ISEE (2000)).
- 7.6 **Table 7.1** summarizes the equipment employed by the Contractor for cultural heritage monitoring. Copies of calibration certificates are attached in **Appendix B**.

Equipment	Manufacturer and Model	Quantity
Digital Level for tilting	Leica LS15 Serial No.: 701141	1
Digital Caliper for tilting	Mitutoyo CD-6" ASX Serial No.: A17047921	1
iCivil-1011 Inclinometer for building settlement	iCivil-1011 Inclinometer Serial No.: HK110118 / HK110120	2
Vibrographs for vibration monitoring	MicroMate manufactured by Instantel Model No.: 721A2501 (Main unit) Model No.: 721A2901 (Geophone)	1
monitoring	Model No.: 721A0201 (Linear microphone)	1

 Table 7.1
 Cultural Heritage Monitoring Equipment

Monitoring Methodology

7.7 Vibrograph (velocity seismograph) was deployed at each monitoring station to measure and record the PPV and amplitude of ground motion in three mutually perpendicular directions. Vibration monitoring equipment fulfils the requirements stated in the Government guidelines and is calibrated to HOKLAS standards. Each monitoring would not be more than 10 minutes. Settlement monitoring should be conducted by surveyors manually.

Alert, Alarm and Action Levels

7.8 The Alert, Alarm and Action (AAA) Levels are given in **Table 7.2**.

able 7.2 AAA Levels for Wolldoring for Cultural Heritage			
Parameter	Alert Level	Alarm Level	Action Level
Vibration	ppv: 4.5 mm/s	ppv: 4.8 mm/s	ppv: 5mm/s Maximum Allowable Vibration Amplitude: 0.1mm
Building Settlement Markers	6mm	8mm	10mm
Building Tilting ⁽¹⁾	1:2000	1:1500	1:1000

 Table 7.2
 AAA Levels for Monitoring for Cultural Heritage

Remarks:

(1) Building tilting measurement was replaced by building settlement point measurement. The tilting can be calculated by the ratio of the maximum settlement difference between 2 points and the distance between the 2 points.

Results

7.9 In the reporting month, cultural heritage monitoring was carried out by the Contractor at the aforesaid location on 26 occasions. No AAA Level exceedance was recorded in the reporting month. The monitoring results are presented in **Appendix T**.

Mitigation Measures for Cultural Heritage

- 7.10 According to Condition 3.6 of the EP (EP No.: EP-458/2013/C), to prevent damage to Cha Kwo Ling Tin Hau Temple and its Fung Shui rocks (Child-given rocks) during the construction phase, a temporarily fenced-off buffer zone (Rocks buffer zone is 5 m from the edge of Rocks and 15m from the edge of Rocks alter) with allowance for public access (minimum 1 m) around the temple and the Fung Shui rocks shall be provided. The open yard in front of the temple should be kept as usual for annual Tin Hau festival.
- 7.11 As there is a large buffer distance from the current works to Cha Kwo Ling Tin Hau Temple and the Fung Shui rocks (Child-given rocks), the temporarily fenced-off rocks buffer zone and from the edge of Rocks alter is not required. The fenced-off rocks buffer zone would be implemented when there is construction activities in vicinity of the cultural heritage.

8. LANDSCAPE AND VISUAL IMPACT REQUIREMENTS

- 8.1 Landscape and visual mitigation measures during the construction phase shall be checked to ensure that they are fully realized and implemented on site.
- 8.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of landscape and visual mitigation measures listed in "Implementation Schedule and Recommended Mitigation Measures" (shown in **Appendix N**). The summaries of observations and recommendations related to landscape and visual impacts, if any, are shown in **Appendix L**.
- 8.3 No non-compliance of the landscape and visual impact was recorded in the reporting month.

9. LANDFILL GAS MONITORING

Monitoring Requirement

- 9.1 In accordance with the EM&A Manual, monitoring of landfill gas is required for construction works within the Sai Tso Wan Landfill Consultation Zone during the construction phase. This section presents the results of landfill gas measurements performed by the Contractor. **Appendix A** shows the Limit Levels for the monitoring works.
- 9.2 The "Landfill Gas Monitoring Proposal", including the monitoring programme and detailed actions, is submitted to the EPD for approval. Details of monitoring in this Proposal is in line with the monitoring requirements stipulated in the EM&A Manual.

Monitoring Parameters and Frequency

- 9.3 Monitoring parameters for Landfill gas monitoring include Methane, Carbon dioxide and Oxygen.
- 9.4 According to the implementation schedule and recommended mitigation measures of the EM&A Manual, measurements of the following frequencies should be carried out:

Excavations deeper than 1m

- at the ground surface before excavation commences;
- immediately before any worker enters the excavation;
- at the beginning of each working day for the entire period the excavation remains open; and
- periodically throughout the working day whilst workers are in the excavation.

Excavations between 300mm and 1m deep

- directly after the excavation has been completed; and
- periodically whilst the excavation remains open.

For excavations less than 300mm deep

• monitoring may be omitted, at the discretion of the Safety Officer or other appropriately qualified person

Monitoring Locations

- 9.5 Monitoring of oxygen, methane and carbon dioxide was performed for excavations at 1m depth or more within the Consultation Zone. In this reporting month, the area required to be monitored for landfill gas are shown below and **Figure 6** shows the landfill gas monitoring locations.
 - Excavation Locations : Portion III
 - Manholes and Chambers : N/A
 - $\blacktriangleright \qquad \text{Relocation of monitoring wells} \qquad : N/A$
 - Any other Confined Spaces : N/A

Monitoring Equipment noise mitigation

9.6 **Table 9.1** summarizes the equipment employed by the Contractor for the landfill gas monitoring.

Т	Table 9.1 Landfill Gas Monitoring Equipment		
Equipment Model and Make Qua		Quantity	
		ALTAIR 5X	
	Portable gas detector	Multigas Detector	1
		(Serial No. 152097)	

Results and Observations

9.7 In the reporting month, landfill gas monitoring was carried out by the Contractor at the aforesaid locations on 130 occasions. No Limit Level exceedance for landfill gas monitoring was recorded in the reporting month. The monitoring results are provided in **Appendix R**. Copies of calibration certificates are attached in **Appendix B**.

10. ENVIRONMENTAL AUDIT

Site Audits

- 10.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix L**.
- 10.2 Joint weekly site audits by the representatives of the Engineer, Contractor and the ET were conducted in the reporting month as shown in below:
 - Contract No. NE/2015/01: 2, 9, 16, 23, 30
 - Contract No. NE/2015/02: 3, 10, 17, 25
 - Contract No. NE/2017/01: 3, 10, 17, 25
 - Contract No. NE/2017/02: 3, 10, 17, 25
 - Contract No. NE/2017/06: 3, 10, 17, 25
 - Contract No. NE/2017/07: 2, 9, 16, 23, 30
- 10.3 Monthly joint site inspection with the representative of IEC was conducted for NE/2015/01 and NE/2017/07 on 30 November 2022, while NE/2015/02, NE/2017/01, NE/2017/02 and NE/2017/06 were conducted on 17 November 2022.
- 10.4 The EM&A programme of Contract No. NE/2015/03 had been terminated on 21 April 2020 under the approval of EPD.

Implementation Status of Environmental Mitigation Measures

- 10.5 According to the EIA Study Report, Environmental Permit and the EM&A Manual of the Project, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An updated summary of the Implementation Schedule and Recommended Mitigation Measures is provided in **Appendix N**.
- 10.6 During site inspections in the reporting month, no non-compliance was recorded on reporting month. The observations and recommendations made during the audit sessions are summarized in **Appendix L**.

11. WASTE MANAGEMENT

- 11.1 Waste generated from this Project includes inert construction and demolition (C&D) materials, non-inert C&D materials and marine sediments. Inert C&D waste includes soil, broken rock, broken concrete and building debris, while non-inert C&D materials are made up of C&D waste which cannot be reused or recycled and has to be disposed of at the designated landfill sites. Marine sediment shall be expected from excavation and dredging works of this Project.
- 11.2 With reference to relevant handling records of this Project, the quantities of different types of waste generated in the reporting month are summarised and presented in **Appendix P**.
- 11.3 The Contractors are advised to minimize the wastes generated through the recycling or reusing. All mitigation measures stipulated in the approved EM&A Manual and waste management plans shall be fully implemented. The status of implementation of waste management and reduction measures are summited in **Appendix N**.

12. ENVIRONMENTAL NON-CONFORMANCE

Summary of Exceedances

- 12.1 No project-related Limit Level exceedance of noise was recorded due to the monitoring results in the reporting month. One (1) Action Level exceedances of construction noise were recorded in the reporting month.
- 12.2 No Limit Level exceedance of air quality was recorded in the reporting month. No Action Level exceedance of air quality monitoring was recorded in the reporting month.
- 12.3 Twenty-one (21) Action Level and Sixty-six (66) Limit Level exceedances were recorded in Monitoring Stations (M) during marine water quality monitoring.
- 12.4 No Action and Limit Level exceedances were recorded for W2 during the post-reclamation marine water quality monitoring.
- 12.5 Actions carried out in accordance with the Event and Action Plans in **Appendix M** are presented in **Appendix K** Summary of Exceedance.

Summary of Environmental Complaint

12.6 Two (2) environmental complaint were received in the reporting month. The Cumulative Complaint Log is presented in **Appendix O**. The investigation status and result are also reported in **Appendix O**.

Summary of Environmental Summon and Successful Prosecution

12.7 No notification of summon or successful environmental prosecution was received in this reporting period. The Cumulative Log for environmental summon and successful prosecution since the commencement of the Project is presented in **Appendix O**.

13. FUTURE KEY ISSUES

- 13.1 Tentative construction programmes for the next three months are provided in **Appendix Q**.
- 13.2 Major site activities to be undertaken for the next reporting period are summarized in **Table 13.1**.

Contract No. and	Summary Table for Site Activities in the next hepo		Key Environmental
Project Title			Issues *
NE/2015/01 - Tseung Kwan O – Lam Tin Tunnel – Main Tunnel and Associated Works	Lam Tin Interchange	 Site Formation Area 1G1, 1G2, 2 & 5 Site Formation Slope Stabilization Site Formation Retaining Wall Administration Building West Ventilation Building Bridge Construction Noise Barrier / Noise Enclosure Emergency Stormwater Storage Tank + Stormwater Pumping Station Sewage Pumping Station Enclosure Structures CKLR Underground Utilities Landscape Deck & Noise Cover LTI Drainage Road EHC4 Noise Enclosure BBI Road Pavement 	(A) / (B) / (C) / (D) / (E) / (G)
	Main Tunnel	 17) Road Pavement 18)Profile Barrier / VE Panel 19)S02_2 Excavation & Lining 20) Tunnel E&M Works 	(B)
	TKO Interchange	21)East Ventilation Building 22)External Road Pavement 23)Miscellaneous Works 24) Slope Stabilization Works	(A) / (C) / (D) / (E) / (F) / (I)
NE/2015/02 - Tseung Kwan O – Lam Tin Tunnel – Road P2 and Associated Works	 Construction Construction 	struction a of dwarf wall a of profile barrier a of retaining wall bl installation	(A) / (B) / (C) / (D) / (E) / (G) / (I)
NE/2015/03 - Tseung Kwan O – Lam Tin Tunnel – Northern Footbridge	The construction	works under the contract had been cember 2019. Materials are being removed	N/A
NE/2017/01 – Tseung Kwan O Interchange and Associated Works	 Defects rect Installation (3) Road Markin 	of Railing	(A) / (B) / (E) / (F) / (G)
NE/2017/02 –Tseung Kwan O - Lam Tin Tunnel - Road P2/D4 and Associated Works	 Construction Asphalt Pav 	se and Lift Shalt Construction	(A) / (B) / (E) / (F) / (G)

 Table 13.1
 Summary Table for Site Activities in the next Reporting Period

Monthly EM&A Report for November 2022

Contract No. and Project Title	Site Activities (December 2022)	Key Environmental Issues *
NE/2017/06 – Tseung Kwan O – Lam Tin Tunnel – Traffic Control and Surveillance System(TCSS) and Associated Works	 Installation + T&C works inside Administrative Building Goods arrival & storage on site Installation + T&C works inside EVB and WVB Installation + T&C works at Bridge Installation + T&C works at Open Road 	(E)
NE/2017/07 - Cross Bay Link, Tseung Kwan O – Main Bridge and Associated Works	 Installation of L3 railing and balustrade Installation of E&M works Landscaping works Road marking at carriageway and green colour dressing 	(A) / (B) / (D) / (E) / (F) / (G) / (H) / (I)

Note:

- (A) Watering for dust generation from haul road, stockpiles of dusty materials, exposed site area, excavation works and rock breaking activities;
- (B) Noisy construction activity such as rock-breaking activities and piling works;
- (C) Runoff from exposed slope or site area;
- (D) Wastewater and runoff discharge from site;
- (E) Accumulation of silt, mud and sand along U-channels and sedimentation tanks;
- (F) Set up and implementation of temporary drainage system for the surface runoff;
 (G) Storage of chamicals (fuel and chamical waste/waste cill on city;
- (G) Storage of chemicals/fuel and chemical waste/waste oil on site;
 (H) Accumulation and storage of general and construction waste on site; and
- (H) Accumulation and storage of general and construction waste on site; and
 (b) Maximum term analytic impact and indirect impact to construct to construct the term intervention.
- (I) Marine water quality impact and indirect impact to coral communities due to marine construction for TKO-LTT reclamation.

Key Issues for the Coming Month

- 13.3 Key environmental issues in the coming month include:
 - Watering for dust generation from haul road, stockpiles of dusty materials, exposed site area, excavation works and rock breaking activities;
 - Noisy construction activity such as rock-breaking activities and piling works;
 - Runoff from exposed slope or site area;
 - Wastewater and runoff discharge from site;
 - Accumulation of silt, mud and sand along U-channels and sedimentation tanks;
 - Set up and implementation of temporary drainage system for the surface runoff;
 - Precaution measures in case of heavy rainfall brought along by typhoon;
 - Storage of chemicals/fuel and chemical waste/waste oil on site;
 - Accumulation and storage of general and construction waste on site; and
 - Marine water quality impact and indirect impact to coral communities due to marine construction for TKO-LTT reclamation.

14. CONCLUSIONS AND RECOMMENDATIONS

Conclusions

14.1 This is the 73th Environmental Monitoring and Audit (EM&A) Report which presents the EM&A works undertaken during the period in November 2022 in accordance with EM&A Manual and the requirement under EP.

Air Quality Monitoring

- 14.2 No Action/Limit Level exceedance for 1-hour TSP monitoring was recorded.
- 14.3 No Limit Level exceedance for 24-hour TSP monitoring was recorded.
- 14.4 No Action Level exceedance for 24-hour TSP monitoring was recorded.

Construction Noise Monitoring

- 14.5 No project-related Limit Level exceedance was recorded due to the monitoring results recorded in this reporting month.
- 14.6 One (1) Action Level exceedance was recorded for documented complaints. The details of complaint shall be referred to **Appendix O**.

Water Quality Monitoring

- 14.7 Groundwater quality monitoring had been suspended since October 2019. Details shall be referred to **Section 5.1**.
- 14.8 Twenty-one (21) Action Level and Sixty-six (66) Limit Level exceedances were recorded in Monitoring Stations (M) during marine water quality monitoring.
- 14.9 No Action and Limit Level exceedances were recorded for W2 during the postreclamation marine water quality monitoring in the reporting month.
- 14.10 Tunnel construction activities are within +/- 50m of the piezometer gate in plan. Construction phase daily piezometer monitoring by the Contractor commenced in June 2018. It has switched to monthly basis since 3 October 2018 as the construction activity was 120m away from the piezometer gate. No monitoring was conducted in the reporting month.

Ecological Monitoring

14.11 The post-translocation coral monitoring surveys were completed in November 2017.

Monitoring on Cultural Heritage

14.12 No Alert Alarm and Action (AAA) Level exceedance of cultural heritage monitoring on cultural heritage was recorded in the reporting month.

Landscape and Visual Monitoring and Audit

14.13 No non-compliance of the landscape and visual impact was recorded in the reporting month.

Landfill Gas Monitoring

14.14 Monitoring of landfill gases in the reporting month was carried out by the Contractor at excavation location, Portion III. No Limit Level exceedance was recorded.

Environmental Site Inspection

14.15 Joint weekly site inspections were conducted by representatives of the Contractor, Engineer and Environmental Team. During site inspections in the reporting month, no non-compliance was identified. The environmental deficiency observed during the reporting month are shown in **Appendix L**.

Complaint, Prosecution and Notification of Summons

14.16 Two (2) environmental complaint, no successful prosecution and notification of summon were received during the reporting period.

Recommendations

- 14.17 The following recommendations were made to the Contractor for the reporting month: *Air Quality Impact*
 - To regularly apply watering on dry surface should be applied to minimize erosion.
 - To aim the water spray at the rock breaking point for effective dust suppression.
 - To water materials before loading/unloading.
 - To turn off idle equipment.

Construction Noise

- To provide sufficient noise barriers for noisy PMEs as practically at LTI according to CNMP.
- To repair the gaps between the noise barriers.
- To place compatible noise barrier close to the breaking point for effective noise screening.
- To erect sound proof canvases on derrick lighter barge

Water Quality Impact

- To clear the oil slick and check for any damage of the silt curtain.
- To repair damaged or missing silt curtain
- To check whether the curtain has been set to the seabed.
- To ensure that the pumping rate of bored pile is sufficient to avoid discharging waste water into the sea.
- To clear floating refuse between the cofferdam and silt curtain.
- To clear oil slick within and outside cofferdam.
- To control the amount of loading materials in the barge to avoiding spillage.
- To cover stockpile near seafront.
- To remove wastewater and oil in drip tray.
- To remove pond/still water.

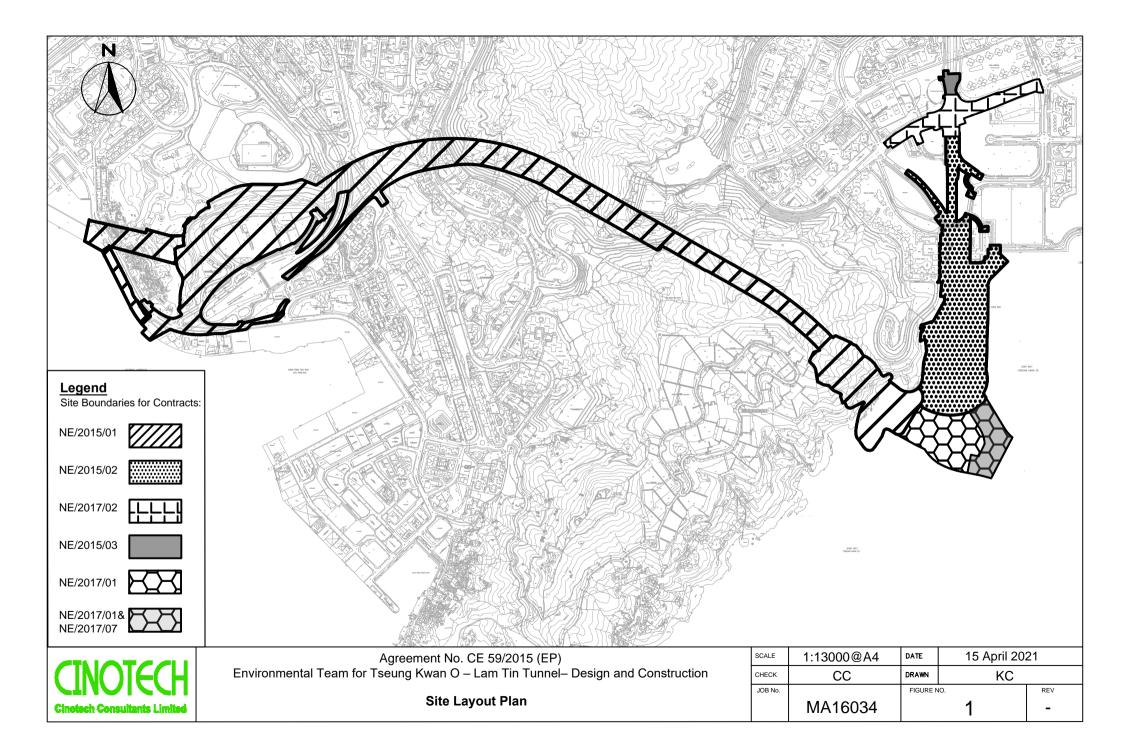
Waste/Chemical Management

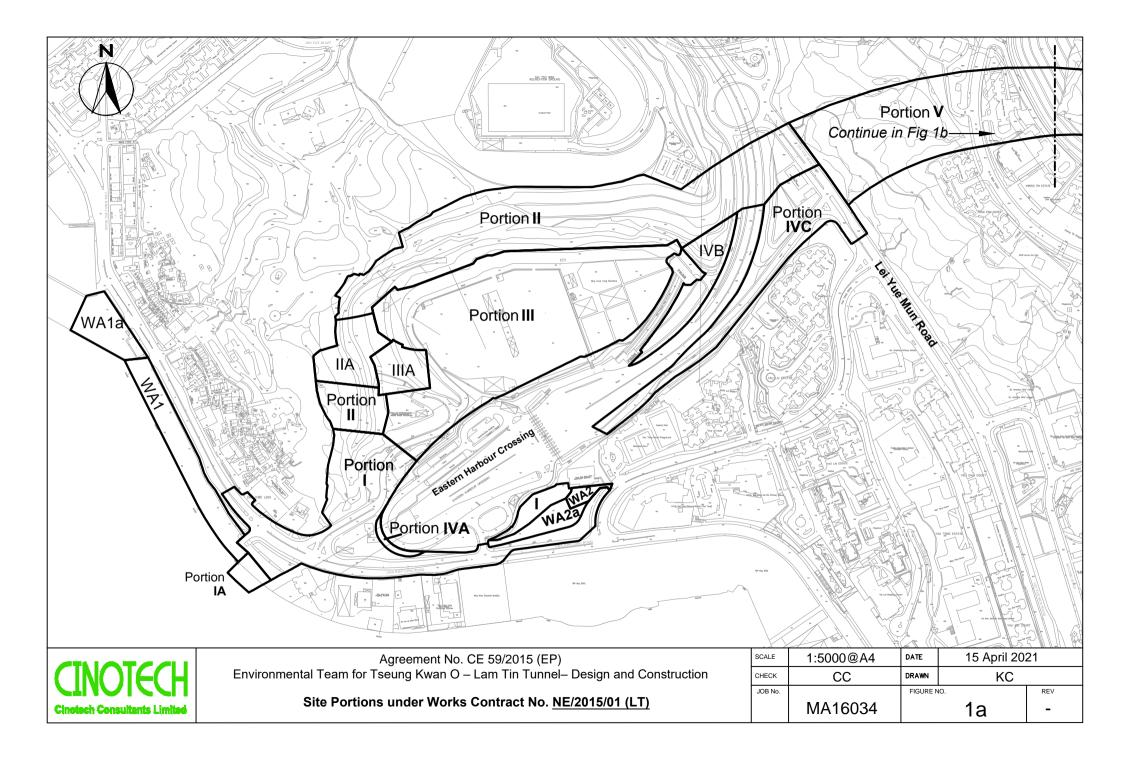
- To bund or lock the chemical storage area.
- To clear dripping oil from bored piling machine.
- To clear oil slick on seawater.
- To clear oil on the floor.

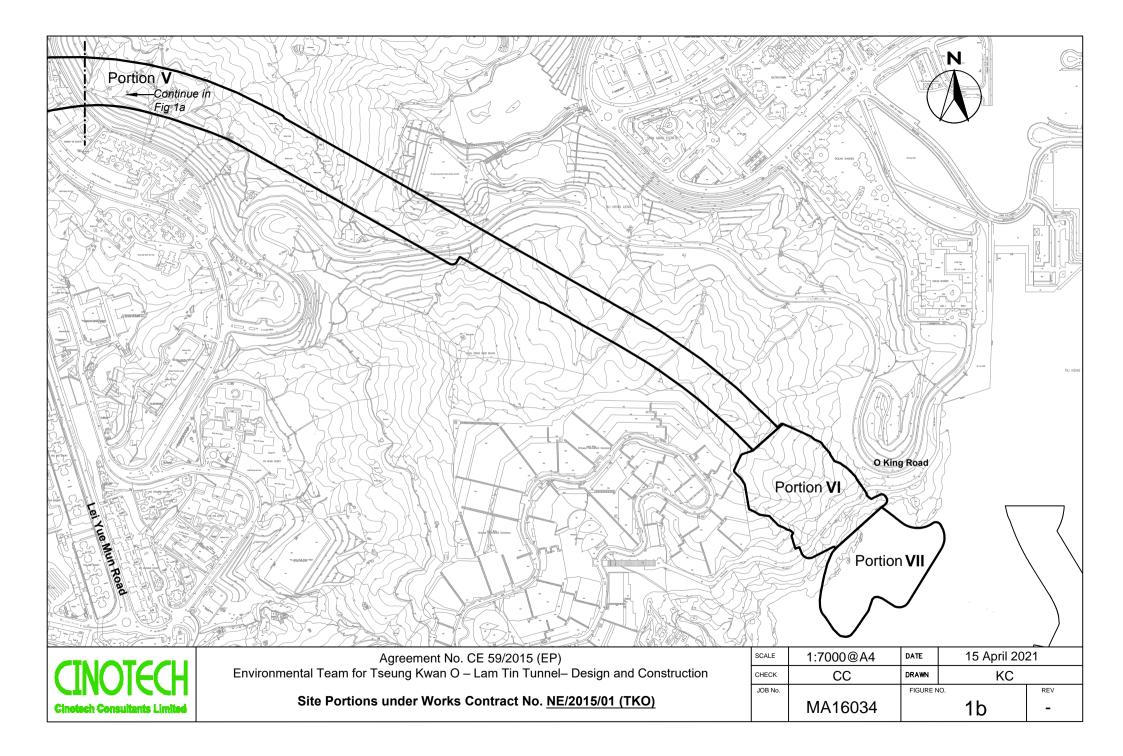
Landscape and Visual

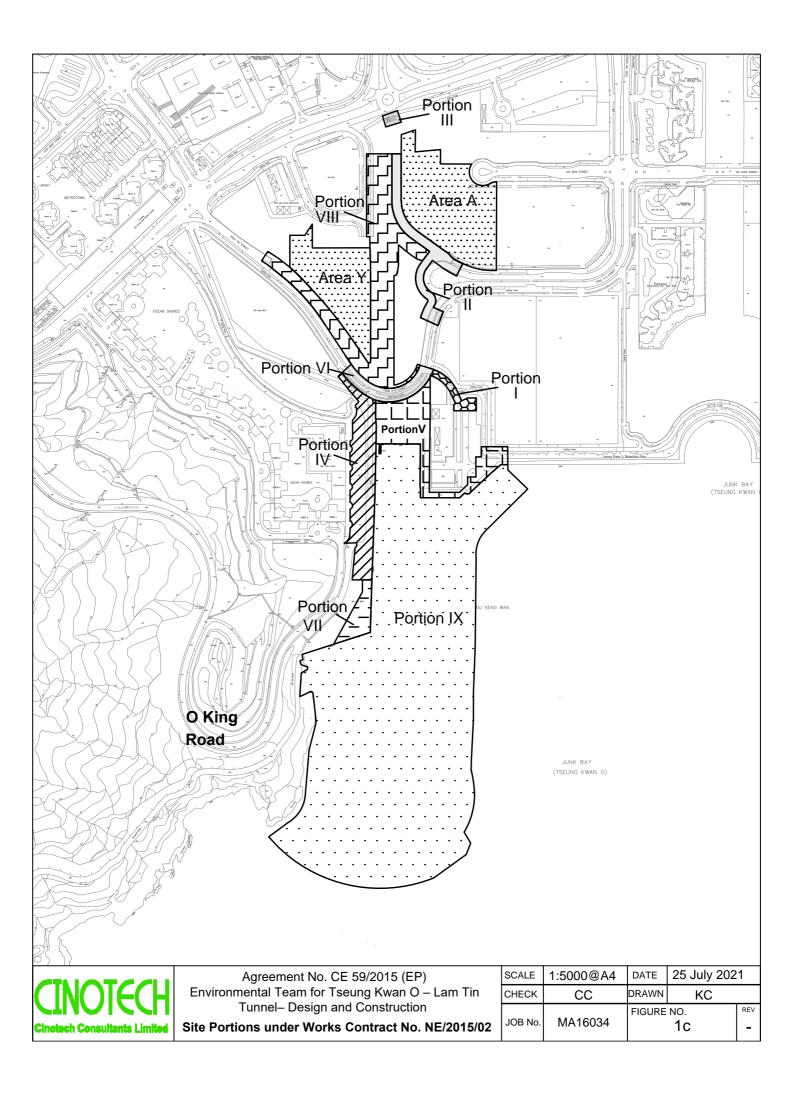
• To avoid placing any construction materials in the tree protection zone.

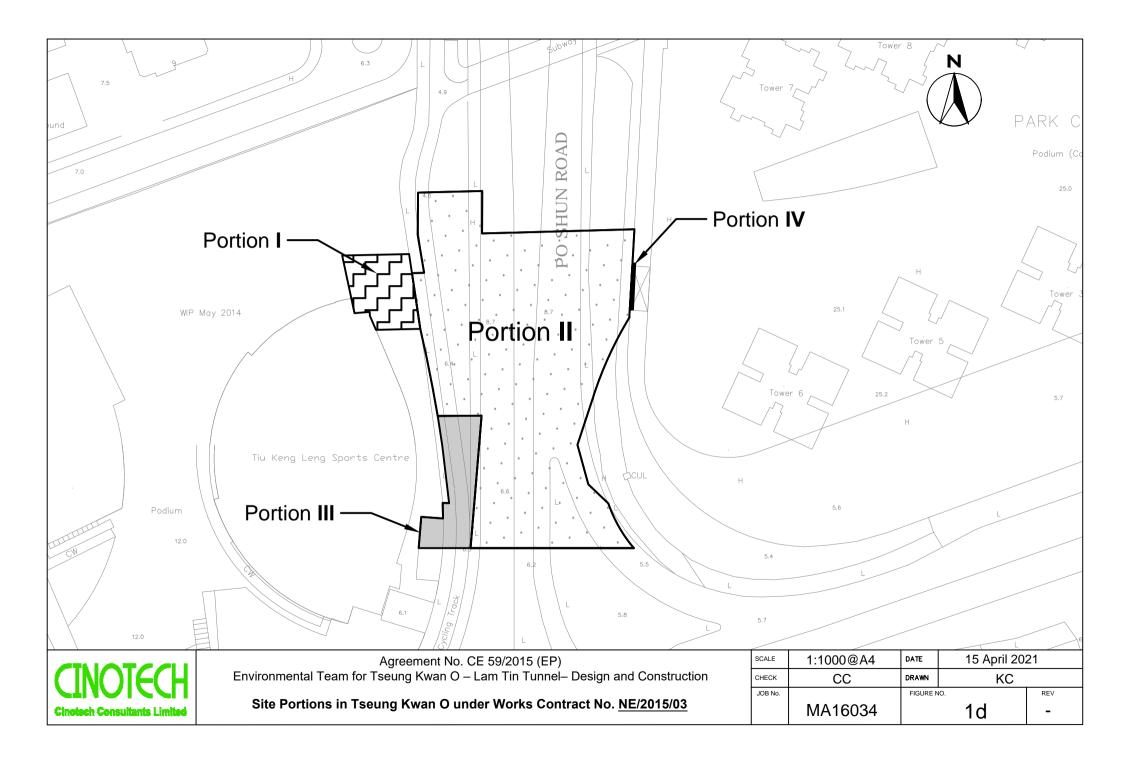
FIGURES

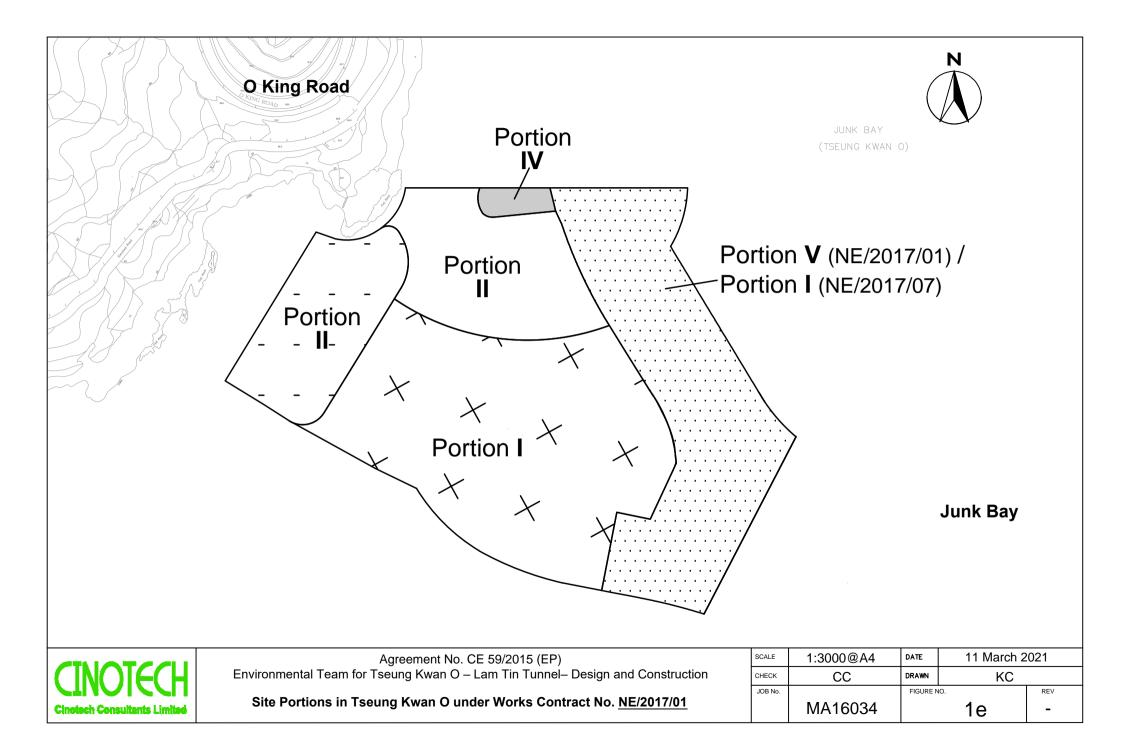


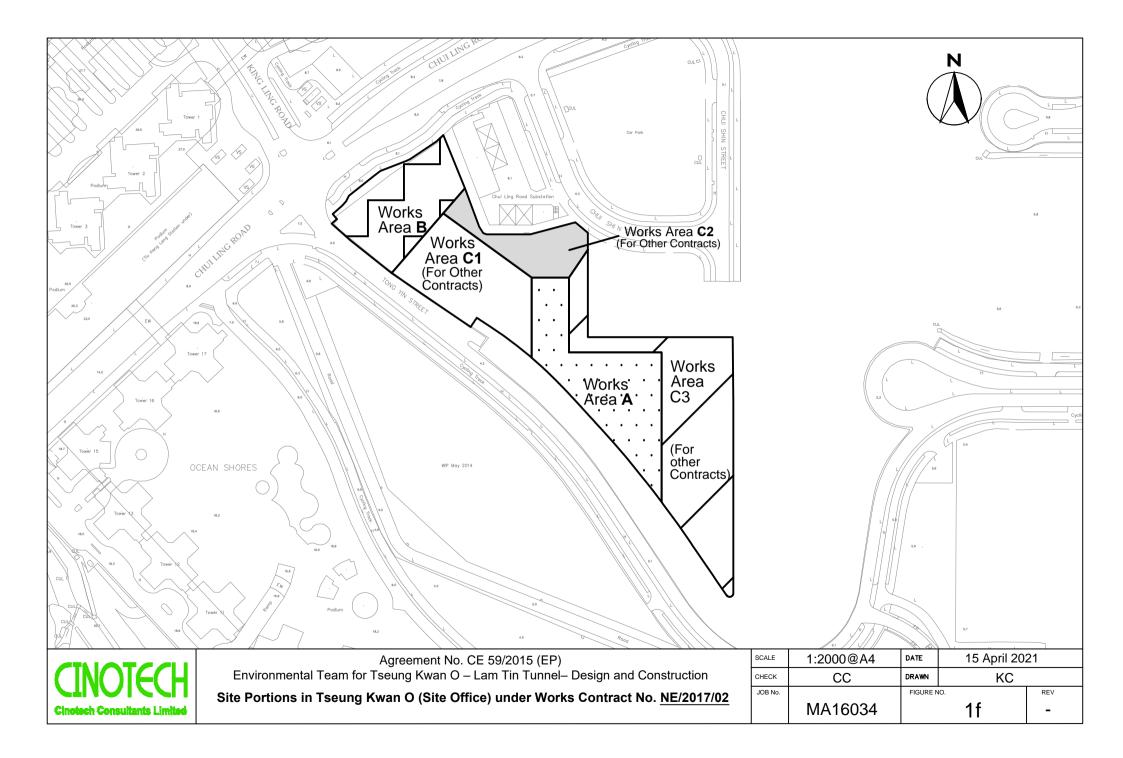


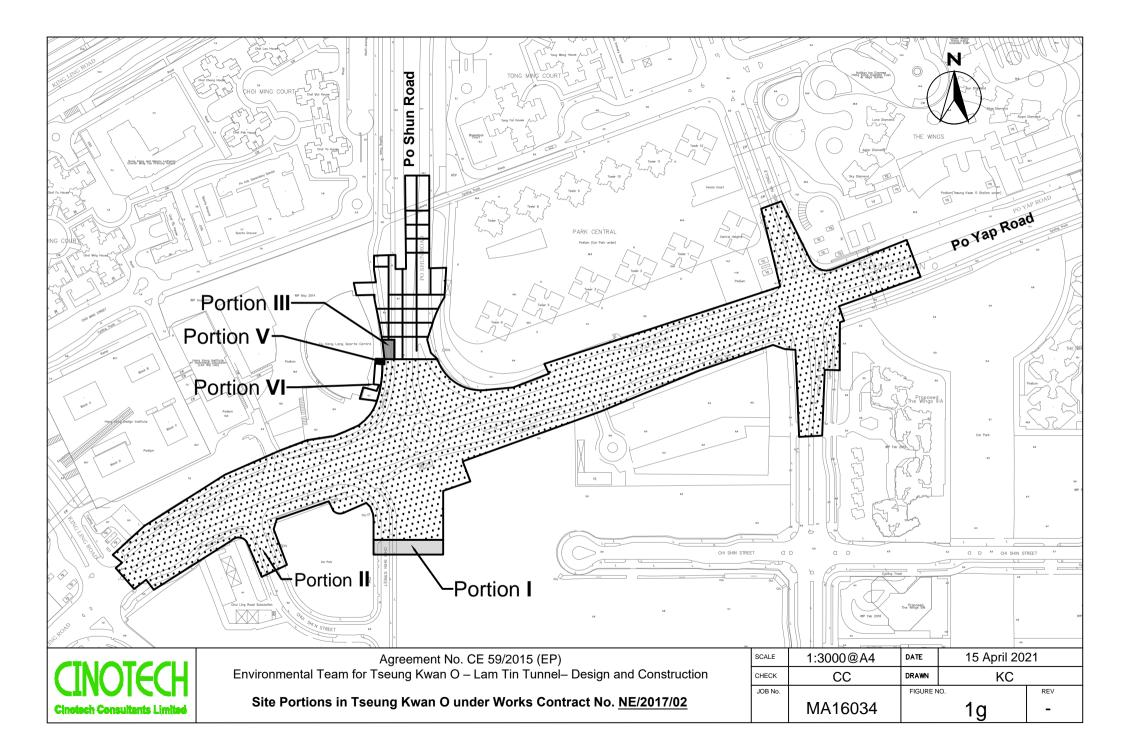


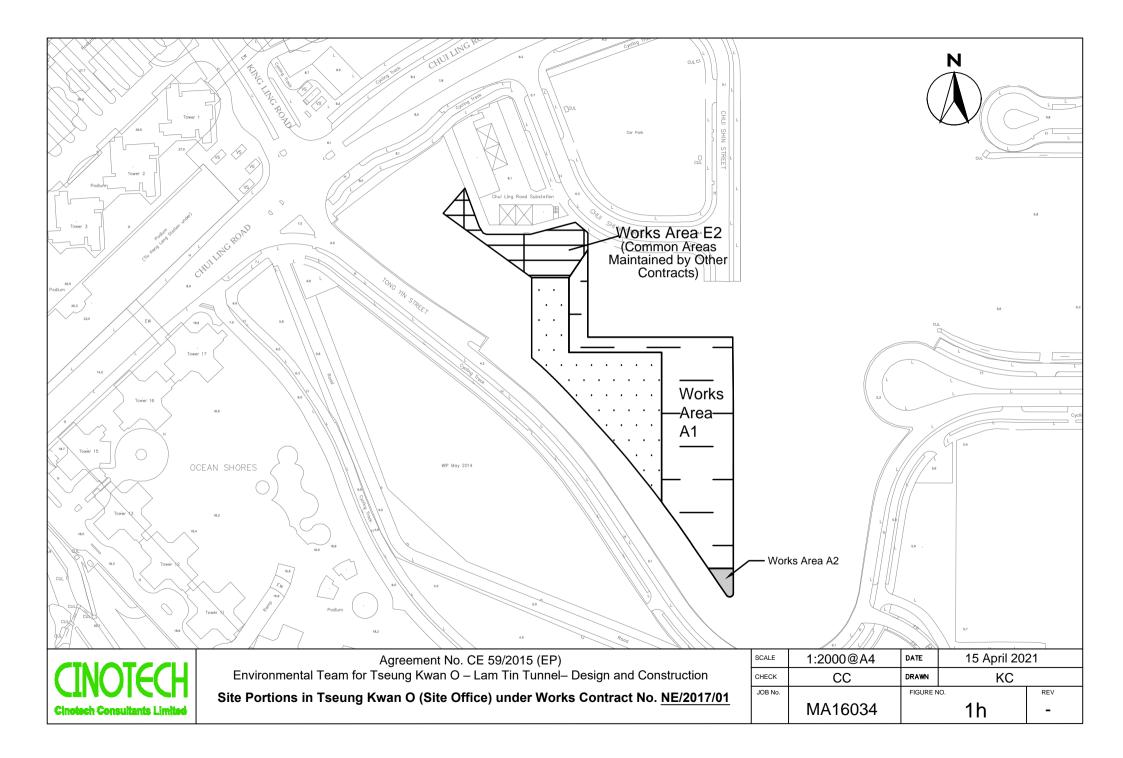


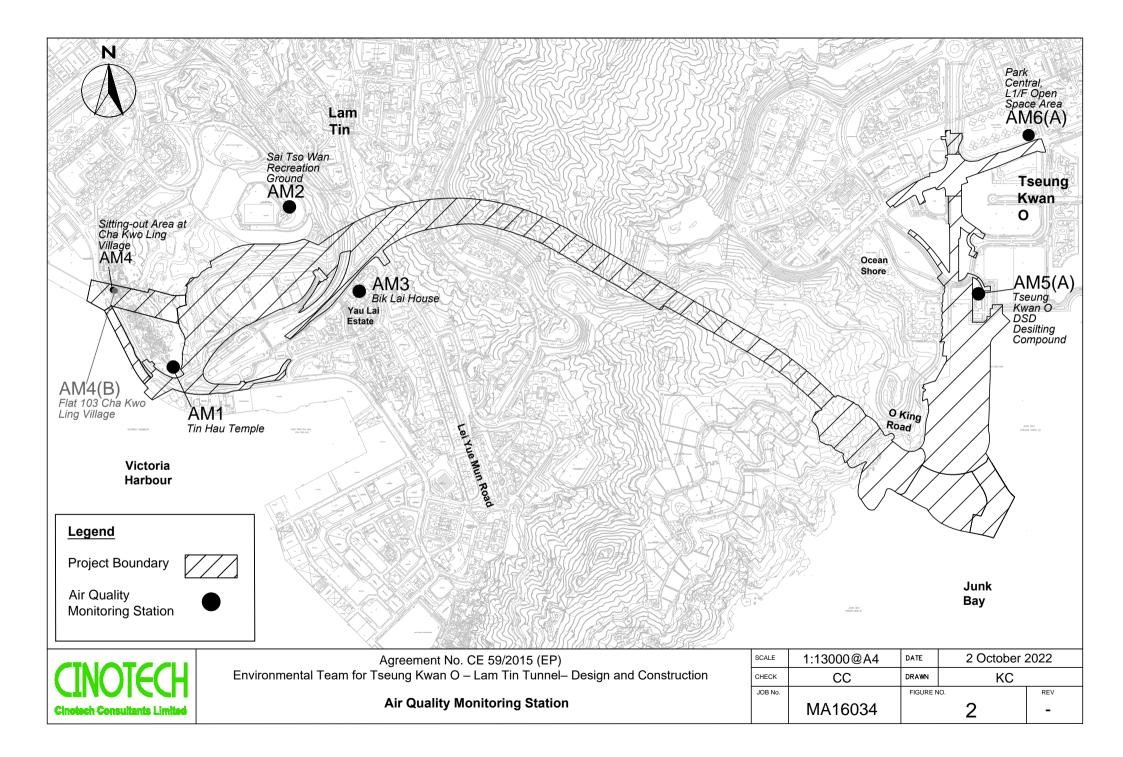


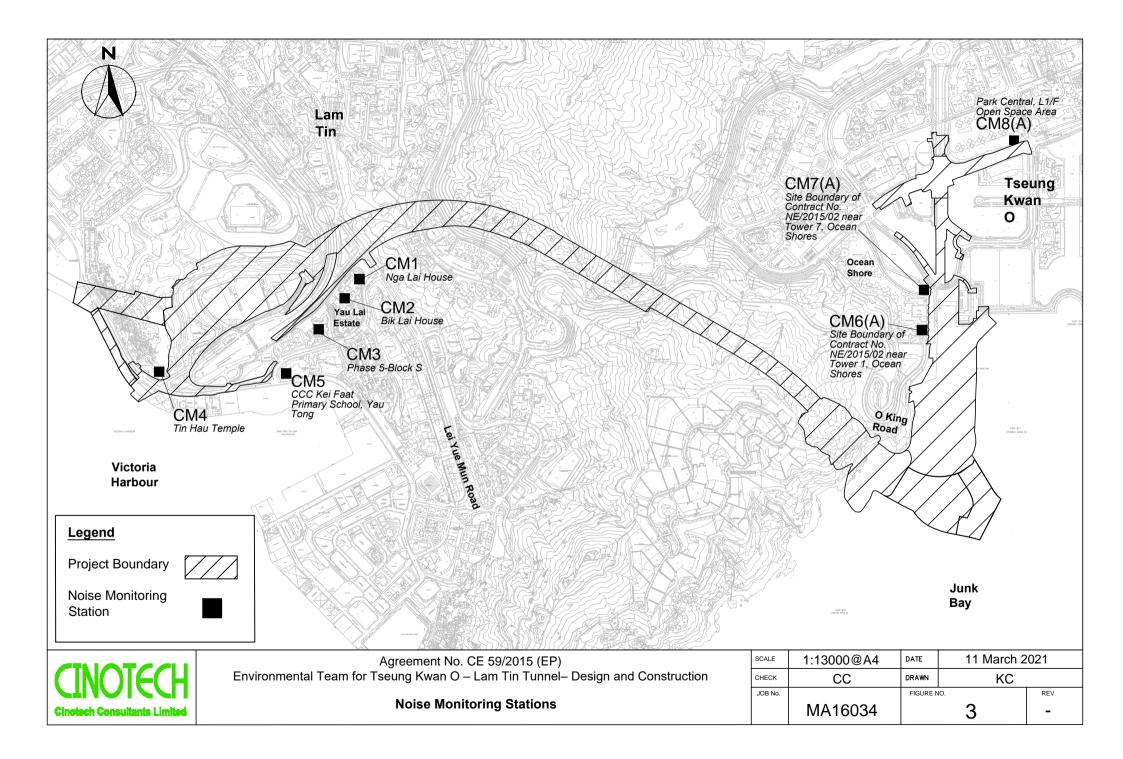


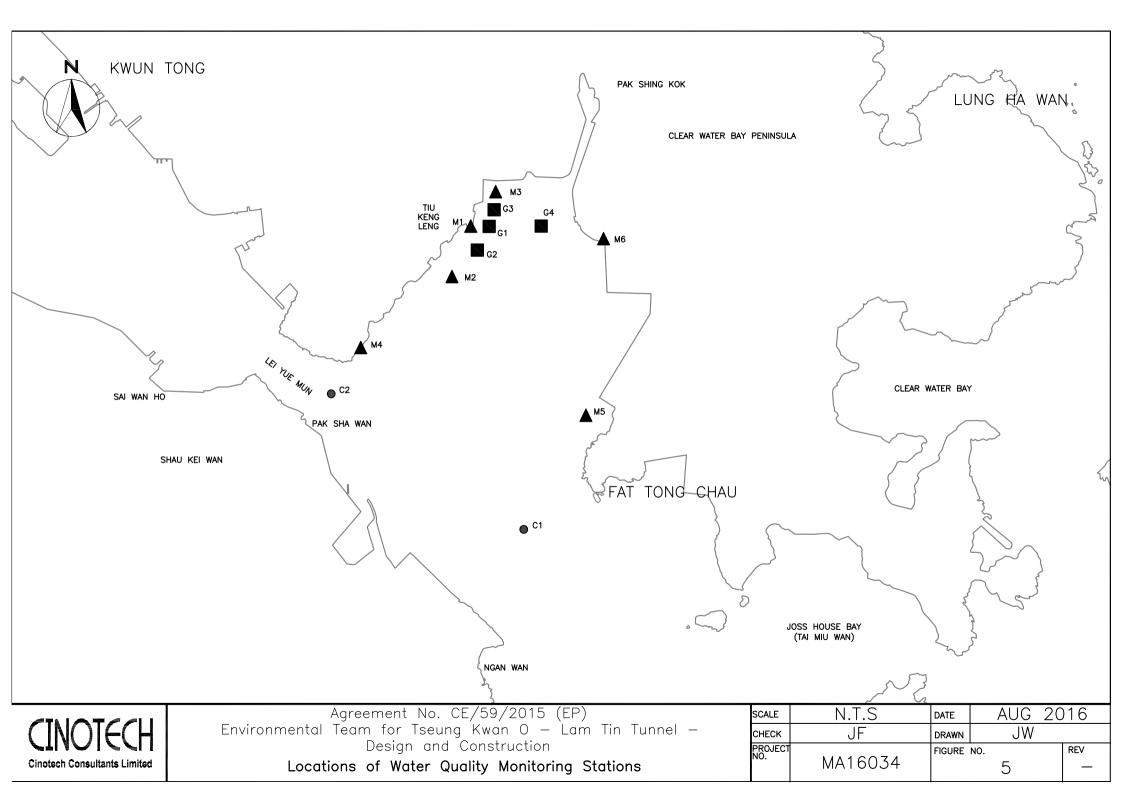


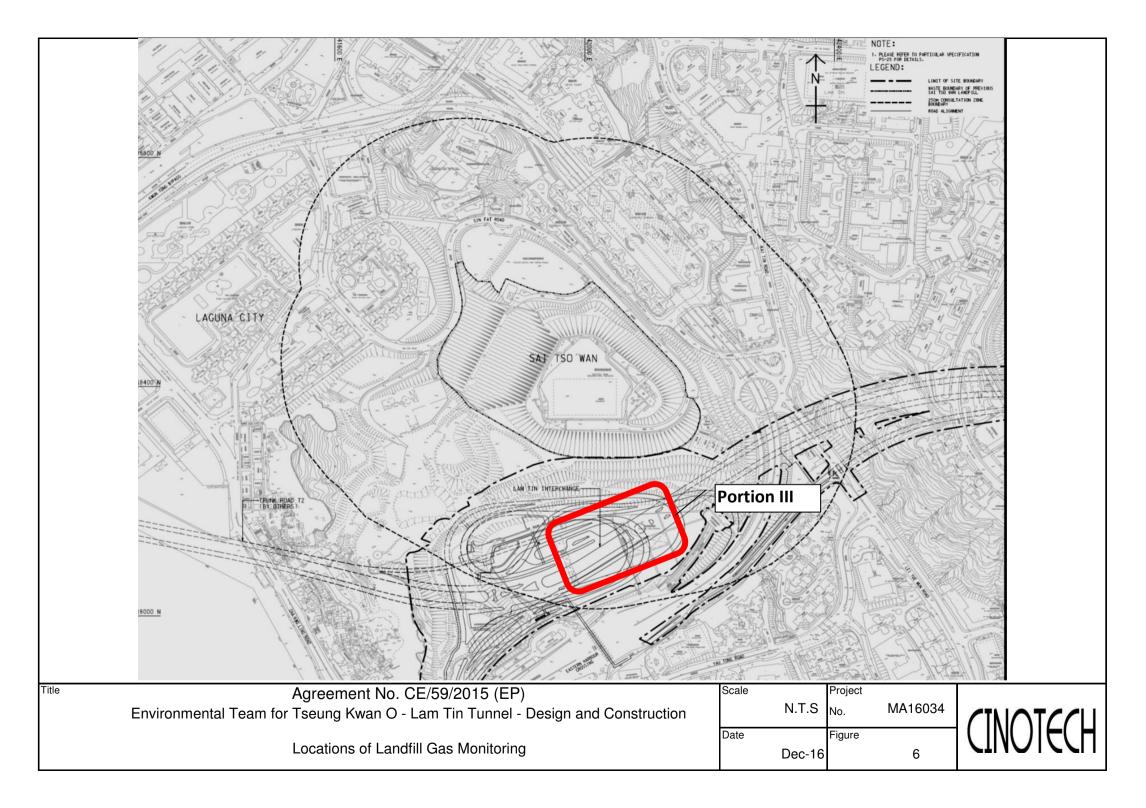


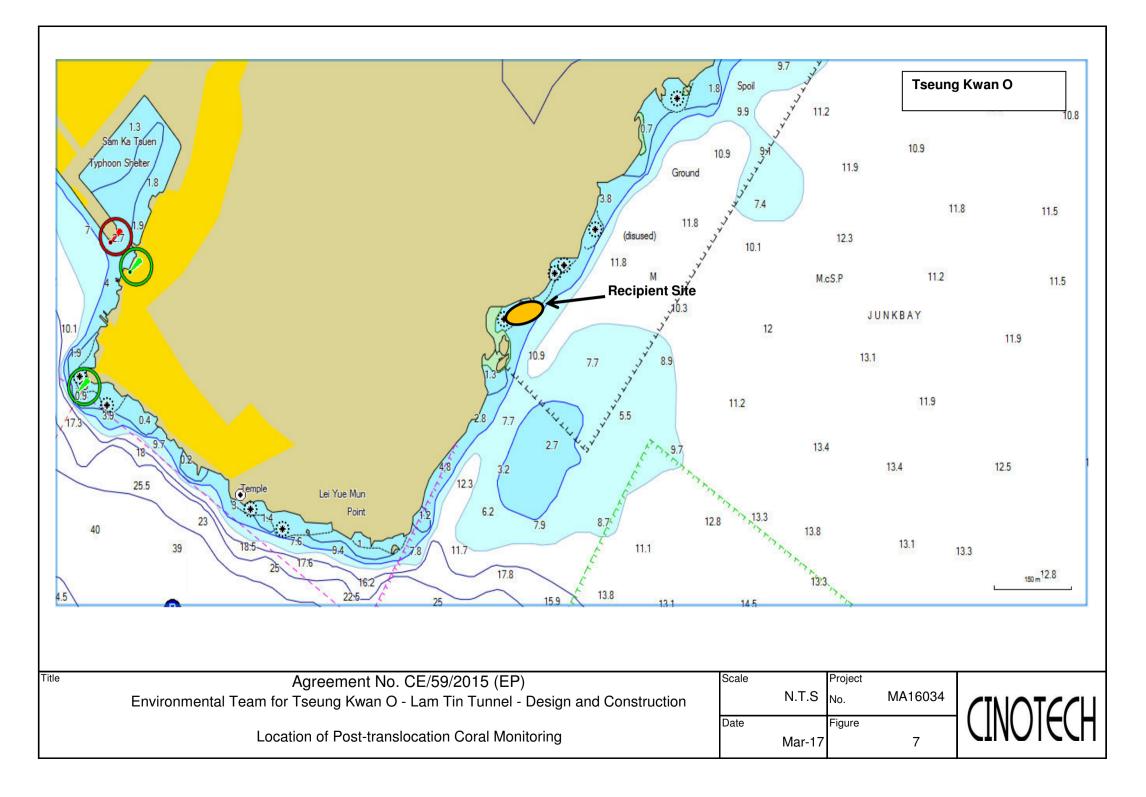


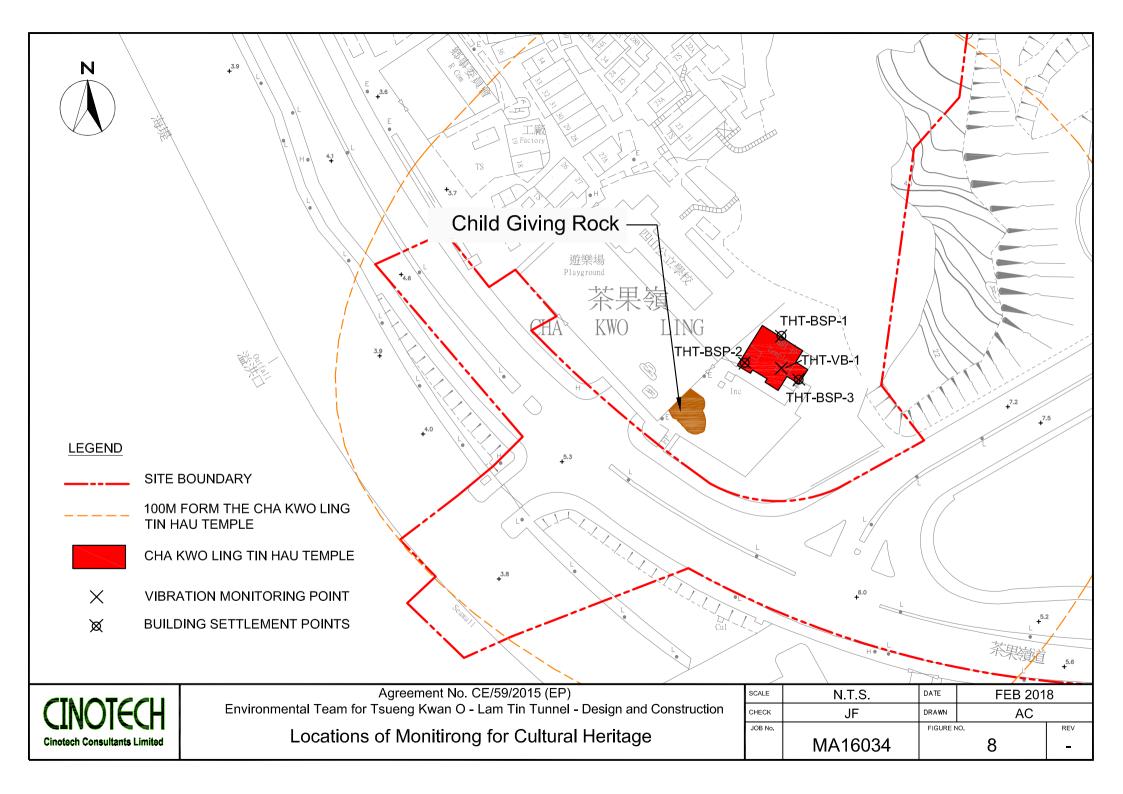












N		Legend
	KENG NG	 MARINE AREA EMBAYED BY RECLAMATION O KING ROAD LOCATION OF OUTFALL MONITORING STATION W2
CINOTECH Cinotech Consultants Limited	Agreement No. CE/59/2015 (EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction Location of Embayment formed by Reclamation and Monitoring Station W2	scale 1:4000@A4 date NOV 2019 check BC drawn KC PROJECT MA16034 FIGURE NO. REV 0. MA16034 9 -

APPENDIX A ACTION AND LIMIT LEVELS

APPENDIX A – Action and Limit Levels

Air Quality

1-hr TSP

Monitoring Stations	Location	Action Level, µg/m ³	Limit Level, $\mu g/m^3$
AM1	Tin Hau Temple	275	
AM2	Sai Tso Wan Recreation Ground	273	
AM3	Yau Lai Estate Bik Lai House	271	500
AM4	Sitting-out Area at Cha Kwo Ling Village	278	500
AM5(A)	Tseung Kwan O DSD Desilting Compound	273	
AM6(A)	Park Central, L1/F Open Space Area	285	

24-hr TSP

Monitoring Stations	Location	Action Level, µg/m ³	Limit Level, $\mu g/m^3$
AM1	Tin Hau Temple	173	
AM2	Sai Tso Wan Recreation Ground	192	
AM3	Yau Lai Estate Bik Lai House	167	
AM4(B)	Flat 103 Cha Kwo Ling Village	210	260
AM5(A)	Tseung Kwan O DSD Desilting Compound	175	
AM6(A)	Park Central, L1/F Open Space Area	165	

<u>Noise</u>

Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays		75 dB(A) ⁽¹⁾
1900-2300 on all days and 0700-2300 on general holidays (including Sundays)	When one documented complaint is received	60/65/70 dB(A) ⁽²⁾⁽³⁾
2300-0700 on all days		45/50/55 dB(A) ⁽²⁾⁽³⁾

 ¹70 dB(A) for schools and 65 dB(A) for schools during examination period.
 ² Acceptable Noise Levels for Area Sensitivity Rating of A/B/C
 ³ If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

Water Quality

Groundwater

Parameters	Action	Limit
DO in mg L ⁻¹	7.6	7.6
рН	6.0 - 8.9	6.0 - 9.0
BOD ₅ in mg L ⁻¹	2.0	2.0
TOO is a Lal	Stream 1 and Stream 2: 9	Stream 1 and Stream 2:9
TOC in mg L ⁻¹	Stream 3: 6	Stream 3: 6
Total Nitrogen in mg L ⁻¹	2.0	2.1
Ammonia-N in mg L ⁻¹	0.15	0.20
Total Phosphate in mg L ⁻¹	0.05	0.05
SS in mg L ⁻¹	7.6	12.1
Turbidity in NTU	2.1	2.3

Notes:

1. For pH, non-compliance of the water quality limits occurs when monitoring result is out of the range of the limits.

2. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

3. For turbidity, SS, 5-day biochemical oxygen demand (BOD₅), Total organic carbon (TOC), Total Nitrogen, Ammonia-N and Total Phosphate, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

4. All the figures given in the table are used for reference only and the EPD may amend the figures whenever it is considered as necessary.

Groundwater Level Monitoring

Drill Hole No.	38568-LDH1	TKO-LBH907
Action Level (mPD)	+74.65	+17.59

Marine Water Quality

<u>Parameter</u> (unit)	<u>Depth</u>	Action Level	Limit Level				
	Stations G1-G4, M1-M5						
DO in mal	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>				
DO in mg/L (See Note 1 and 4)	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>				
	<u>Station M6</u>						
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>				
	Stations G1-G4	<u>, M1-M5</u>					
Turbidity in NTU (See Note 2, 4 and 5)	Bottom	<u>19.3 NTU</u> or 120% of upstream control station's Turbidity at the same tide of the same day	22.2 NTU or 130% of upstream control station's Turbidity at the same tide of the same day				
	Station M6						
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>				
	Stations G1-G4						
	Surface	<u>6.0 mg/L</u> or 120% of upstream control station's SS at the same tide of the same day	<u>6.9mg/L</u> or 130% of upstream control station's SS at the same tide of the same day				
	Stations M1-M	5					
SS in mg/L (See Note 2, 4 ad 5)	Surface	<u>6.2 mg/L</u> or 120% of upstream control station's SS at the same tide of the same day	<u>7.4 mg/L</u> or 130% of upstream control station's SS at the same tide of the same day				
	Stations G1-G4	<u>, M1-M5</u>					
	Bottom	<u>6.9 mg/L</u> or 120% of upstream control station's SS at the same tide of the same day	<u>7.9 mg/L</u> or 130% of upstream control station's SS at the same tide of the same day				
	<u>Station M6</u>						
	Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>				

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.

4. Action and limit values are derived based on baseline water quality monitoring results to show the actual baseline water quality condition.

5. Refer to Appendix I – Marine Water Quality Monitoring Results and Graphical Presentations for results of upstream control stations at each tide on each day.

Water Quality Monitoring in Temporary Marine Embayment

Parameter (unit)	Depth Action Level		Limit Level	
DO in mg/L (See Note 1 and 2)	Depth Average	<u>4.8 mg/L (4)</u>	<u>4 mg/L ⁽³⁾</u>	
	Bottom	<u>2.4 mg/L (4)</u>	<u>2 mg/L</u> ⁽³⁾	

Notes:

1. "depth-averaged" is calculated by taking the arithmetic means of reading of all sampling depths.

2. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

3. Current Water Quality Objectives (WQOs) for marine waters of Hong Kong

4. As an alert for adverse water quality impact, the Action Level is set as 120% of the Current WQOs for marine waters of Hong Kong.

Ecology

Post-translocation Coral Monitoring

Parameter	Action Level Definition	Limit Level Definition
Mortality	0 1 0	If during the Impact Monitoring a 25%
		increase in the percentage of partial
	corals occurs at more than 20% of the tagged	mortality occurs at more than 20% of the
	coral at any one Impact Monitoring Site that	tagged coral at any one Impact Monitoring
	is not recorded at the Control Site, then the	Site that is not recorded at the Control Site,
	Action Level is exceeded.	then the Limit Level is exceeded.

Landfill Gas Monitoring

Parameter	Limit Level			
Oxygen	<19%			
	<18%			
Methane	>10% LEL (i.e. > 0.5% by volume)			
	>20% LEL (i.e. >1% by volume)			
Carbon	>0.5%			
Dioxide	>1.5%			

Alert, Alarm, Action Levels for Built Heritage Monitoring

ParameterAlert Level		Alarm Level	Action Level		
Vibration	ppv:4.5mm/s	ppv: 4.8mm/s	ppv: 5mm/s Maximum Allowable Vibration Amplitude: 0.1mm		
Building Settlement Point	6mm	8mm	10mm		
Building Tilting	1:2000	1:1500	1:1000		

APPENDIX B COPIES OF CALIBRATION CERTIFICATES

CIN@TECH 🔔

Certificate of Calibration - Wind Monitoring Station

Description:	Yau Lai Estate, Bik Lai House
Manufacturer:	Davis Instruments
Model No.:	<u>Davis7440</u>
Serial No.:	<u>MC01010A44</u>
Equipment No.:	<u>SA-03-04</u>
Date of Calibration	<u>19-Aug-2022</u>
Next Due Date	<u>19-Feb-2023</u>

1. Performance check of Wind Speed

Wind Sp	beed, m/s	Difference D (m/s)
Wind Speed Reading (V1) Anemometer Value (V2)		D = V1 - V2
0.0 0.0		0.0
1.5	1.5	0.0
2.5	2.6	-0.1
4.0	4.0	0.0

2. Performance check of Wind Direction

Wind Di	rection (°)	Difference D (°)
Wind Direction Reading (W1)	Marine Compass Value (W2)	$\mathbf{D} = \mathbf{W1} - \mathbf{W2}$
0	0	0.0
90	90	0.0
180	180	0.0
270	270	0.0

Test Specification:

1. Performance Wind Speed Test - The wind meter was on-site calibrated against the anemometer

2. Performance Wind Direction Test - The wind meter was on-site calibrated against the marine compass at four direction

1. Performance check of anemometer

Air Veloc	ity, m/s	Difference D (m/s)
Instrument Reading (V1)	Reference Value (V1)	D = V1 - V2
2	2	0

2. Performance check of wind direction sensor

Wind Dire	ection (°)	Difference D (°)
Instrument Reading (W1)	Reference Value (W2)	D = W1 - W2
0	0	0
45	45	0
90.2	90	0.2
135.3	135	0.3
180	180	0
225.1	225	0.1
270.3	270	0.3
315	315	0
360	360	0





Certificate of Calibration

			Calibration	Certificatio	on Informat	ion		
Cal. Date:	January 31	January 31, 2022 Roots			438320	Ta:	294	°K
Operator:	Jim Tisch				Pa:	752.6	mm Hg	
Calibration	tion Model #: TE-5025A Calil		prator S/N:	3864			0	
								1
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4490	3.2	2.00	
	2	3	4	1	1.0320	6.4	4.00	
	3	5	6	1	0.9160	7.9	5.00	
	5	7	8 10	1	0.8730	8.8	5.50 8.00	
		9				1.2.7	8.00]
	L			Data Tabula	tion			
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$)(<u>Tstd</u>) Ta)		Qa	$\sqrt{\Delta H (Ta/Pa)}$	
	(m3)	(x-axis)	(y-ax	is)	Va	(x-axis)	(y-axis)	
	0.9995	0.6898	1.416		0.9957	0.6872	0.8839	
	0.9952	0.9643	2.003		0.9915	0.9608	1.2500	
	0.9932	1.0843	2.240		0.9895	1.0802	1.3976	
	0.9920	1.1363	2.349		0.9883	1.1321	1.4658	
	0.9868	1.3649	2.833		0.9831	1.3598	1.7678	
		m=	2.092				1.31048	
	QSTD	b=	-0.024		QA	b=	-0.01514	
		L=	0.999	993		ľ=	0.99993	I
				Calculatio				
)/Pstd)(Tstd/Ta	a)		ΔVol((Pa-Δ	P)/Pa)	
	Qstd=	Vstd/∆Time			Qa= Va/∆Time			
			For subsequ	ent flow ra	te calculatio	ns:		
	Qstd=	1/m ((Pa Tstd Pstd Ta)-ь)	Qa=	1/m ((√∆H	l(Та/Ра))-b)	
	Standard	Conditions						
Tstd:						RECA	LIBRATION	
Pstd:		mm Hg			LIS EDA room	mmonde	nnual recalibratio	on ner 1000
		(ey ter reading (i	n H2O)				Regulations Part !	
		eter reading (i					, Reference Meth	
		perature (°K)					ended Particulati	
		ressure (mm					erided Particulation erided Particulation erided Particulation erided eride	
b: intercept					LTI(e Aunosphe	sie, 3.2.17, page	50
m: slope								

isch Environmental, Inc.

45 South Miami Avenue

illage of Cleves, OH 45002

www.tisch-env.com TOLL FREE: (877)263-7610 FAX: (513)467-9009

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File No. MA16034/05/0038

Project No.	AM1 - Tin Hau						
Date:	9-Oct-22		Next Due Date:	9-Dec-22	ec-22 Operator:		
Equipment No.:	A-01-05		Model No.: GS2310		Serial No.	10599	
			Ambient Condit	ion			
Temperature, Ta (K) 300.1		Pressure, Pa (mml	Hg)	762.4			

Orifice Transfer Standard Information						
Serial No.	3864	Slope, mc	0.05922	Intercept, bc	-0.02420	
Last Calibration Date:	31-Jan-22	1	mc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$] ^{1/2}	
Next Calibration Date:	31-Jan-23		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} \mathbf{x}] \}$	$\left(Pa/760\right) x \left(298/Ta\right)]^{1/2} \ \text{-bc} \} / $	mc	

Calibration of TSP Sampler								
Calibration		Orfice		HVS				
Point	ΔH (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ge (Pa/760) \ge (298/Ta)]^{1/2}$ Y-axis			
1	13.3	3.64	61.87	9.8	3.12			
2	10.4	3.22	54.76	7.3	2.70			
3	7.6	2.75	46.87	5.4	2.32			
4	5.5	2.34	39.93	3.4	1.84			
5	3.3	1.81	31.02	1.9	1.38			
Slope, mw =	By Linear Regression of Y on X Slope , mw =							
Correlation	coefficient* =	0.9989	-					
*If Correlation C	Coefficient < 0.990), check and recalibrate.						
		Set Point C	alculation					
From the TSP Fi	eld Calibration Cu	urve, take Qstd = 43 CFM						
From the Regres	sion Equation, the	e "Y" value according to						
		$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$						
Therefore, Se	et Point; W = (mv	$(x + bw)^2 x (760 / Pa) x (760 / Pa)$	Ta / 298) =	4.22				
Remarks:	Remarks:							
Conducted by:	Wong Shi	ng Kwai Signature:	R	N. Janj	Date: 10-Oct-22			
Checked by:	Henry I	Leung Signature:	-lem	J Xm J	Date: 10-Oct-22			



File No. MA16034/08/0038

Project No.	AM2 - Sai Tso					
Date:	9-0	Dct-22	Next Due Date:	9-Dec-22	Operator:	SK
Equipment No.:	A-	01-08	Model No.:	GS2310	Serial No.	1287
			Ambient Condit	ion		
Temperatu	ıre, Ta (K)	300.1	Pressure, Pa (mml	Hg)	762.4	

Orifice Transfer Standard Information							
Serial No.	3864	Slope, mc	0.05922	Intercept, bc	-0.02420		
Last Calibration Date:	31-Jan-22	1	mc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$] ^{1/2}		
Next Calibration Date:	31-Jan-23	31-Jan-23 Qstd = { $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ -bc} / mc					

Calibration of TSP Sampler								
Calibration		Orfice			HVS			
Point	ΔH (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis			
1	13.5	3.67	62.33	9.5	3.08			
2	10.7	3.26	55.54	7.0	2.64			
3	7.9	2.81	47.78	5.4	2.32			
4	5.5	2.34	39.93	3.7	1.92			
5	3.3	1.81	31.02	2.2	1.48			
Slope , mw = Correlation	By Linear Regression of Y on X Slope , mw = 0.0499 Intercept, bw : -0.0761 Correlation coefficient* = 0.9984 *If Correlation Coefficient < 0.990, check and recalibrate.							
From the Regres	Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to mw x Qstd + bw = $[\Delta W x (Pa/760) x (298/Ta)]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) =							
Remarks:	Remarks:							
	Wong Shi	ng Kwai Signature Leung Signature	: :lem	N. Janj	Date: 10-Oct-22 Date: 10-Oct-22			

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File No. MA16034/03/0038

Project No.	AM3 - Yau La					
Date:	9-0	Dct-22	Next Due Date:	9-Dec-22	Operator:	SK
Equipment No.:	A-	01-03	Model No.:	GS2310	Serial No.	10379
			Ambient Condition	n		
Temperatu	re, Ta (K)	300.1	Pressure, Pa (mmHg	<u>(</u>)	762.4	

Orifice Transfer Standard Information						
Serial No.	3864	Slope, mc	0.05922	Intercept, bc	-0.02420	
Last Calibration Date:	31-Jan-22	1	mc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$] ^{1/2}	
Next Calibration Date:	31-Jan-23		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} \mathbf{x}] \}$	$\left(\text{Pa/760} \right) x \left(298/\text{Ta} \right) \right]^{1/2} \text{-bc} \} / $	mc	

Calibration of TSP Sampler								
Calibration		Orfice			HVS			
Point	ΔH (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ge (Pa/760) \ge (298/Ta)]^{1/2}$ Y-axis			
1	12.9	3.58	60.94	9.0	2.99			
2	10.3	3.20	54.50	6.8	2.60			
3	8.2	2.86	48.67	5.2	2.28			
4	5.1	2.25	38.47	3.2	1.79			
5	2.8	1.67	28.61	1.9	1.38			
Slope , mw = Correlation	By Linear Regression of Y on X Slope , mw =0.0498 Intercept, bw :0.0959 Correlation coefficient* =0.9972							
*If Correlation C	coefficient < 0.990), check and recalibrate.						
		Set Point C	alculation					
From the TSP Fi	eld Calibration Cu	urve, take Qstd = 43 CFM						
From the Regres	sion Equation, the	e "Y" value according to						
Therefore, Se	et Point; W = (mv	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$ v x Qstd + bw) ² x (760 / Pa) x (
Remarks:	Remarks:							
Conducted by:	Wong Shi	ng Kwai Signature:	k	<u>у</u> .	Date: 10-Oct-22			
Checked by:	Henry I	Leung Signature:	-lem	J J. X. ~ J.	Date: 10-Oct-22			



File No. MA16034/37/0038

Project No.							
Date:	9-0	ct-22	Next Due Date:	9-Dec-22	Operator:	SK	
Equipment No.:	A-()1-37	Model No.:	GS2310	Serial No.	1704	
			Ambient Condit	ion			
Temperatu	ıre, Ta (K)	300.1	Pressure, Pa (mmI	Hg)	762.4		

Orifice Transfer Standard Information							
Serial No.	3864	Slope, mc	0.05922	Intercept, bc	-0.02420		
Last Calibration Date:	31-Jan-22	1	mc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$] ^{1/2}		
Next Calibration Date:	31-Jan-23		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} \mathbf{x}] \}$	$\left({Pa/760} \right) x \left({298/Ta} \right) \right]^{1/2} \mbox{-bc} \} \mbox{/}$	mc		

Calibration of TSP Sampler								
Calibration	Orfice			HVS				
Point	ΔH (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis			
1	13.1	3.61	61.41	9.5	3.08			
2	10.7	3.26	55.54	7.2	2.68			
3	8.3	2.88	48.96	5.6	2.36			
4	5.2	2.28	38.84	3.3	1.81			
5	2.9	1.70	29.11	1.9	1.38			
Slope , mw =	By Linear Regression of Y on X Slope , mw = <u>0.0522</u> Intercept, bw : <u>-0.1795</u> Correlation coefficient* = 0.9981							
*If Correlation C	Coefficient < 0.990), check and recalibrate.						
		Set Point C	alculation					
From the TSP Fi	eld Calibration Cu	urve, take Qstd = 43 CFM						
From the Regres	sion Equation, the	e "Y" value according to						
Therefore, Se	et Point; W = (mv	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$ v x Qstd + bw) ² x (760 / Pa) x (7						
Remarks:	Remarks:							
Conducted by:	Wong Shi	ng Kwai Signature:	k	<u>, </u>	Date: 10-Oct-22			
Checked by:	Henry I	Leung Signature:	-lem	N- 7 ^{X0} 7	Date: 10-Oct-22			



File No. MA16034/07/0037

Project No.	AM6 - Park Ce	ntral					
Date:	4-Sep-22		Next Due Date:	4-N	Nov-22	Operator:	SK
Equipment No.:	A-0	01-07			52310		10592
			Ambient C	ondition			
Temperatur	re, Ta (K)	303.8	Pressure, Pa	(mmHg)		752.2	
Serial	No	Ori 3864	ifice Transfer Star Slope, mc	0.05922	Intercept	ha	-0.02420
Last Calibra		31-Jan-22			$c = [\Delta H x (Pa/760)]$		
Next Calibra		31-Jan-22			(Pa/760) x (298/1		
			1	<u> </u>	. , .		
			Calibration of '	TSP Sampler			
Calibration		Or	fice	-		HVS	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		60) x (298/Ta)] ^{1/2} Z -axis
1	12.7		3.51	59.70	8.6		2.89
2	9.3		3.00	51.15	6.2		2.45
3	7.6		2.72	46.28	4.6		2.11
4	4.8		2.16	36.86	3.0		1.71
5	3.1		1.73	29.70	2.0		1.39
	ession of Y on 2 0.0501 coefficient* =	_	. 9971	Intercept, bw :	-0.129	5	
*If Correlation C	Coefficient < 0.9	90, check and rec	calibrate.				
			Set Point Ca	alculation			
From the TSP Fi	eld Calibration	Curve, take Qstd	= 43 CFM				
From the Regres	sion Equation, t	he "Y" value acco	ording to				
		mw v O	$\mathbf{b}\mathbf{x} = [\Delta \mathbf{W} \mathbf{x}]$	(Do/760) v (2	$08/T_{0}$ 1 ^{1/2}		
		III w x Q	$\frac{1}{2}$ stu + Dw – [ΔW Å	(1 d/ 700) X (2)	70/1 <i>a</i>)]		
Therefore, Se	et Point; W = (n	nw x Qstd + bw)	² x (760 / Pa) x (7	Γa / 298) =	4.22		
Remarks:							
Conducted by:	Wong Sl	hing Kwai	Signature:	k	X.	Date:	4-Sep-22
Checked by:	Henry	/ Leung	Signature:	-lan	g Koz	Date:	4-Sep-22

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File No. MA16034/07/0038

Project No.	AM6 - Park Ce	entral				
Date:	4-N	lov-22	Next Due Date:	4-Jan-23	Operator:	SK
Equipment No.:	A-	01-07	Model No.:	GS2310	Serial No.	10592
			Ambient Condit	ion		
Temperatu	ıre, Ta (K)	295.6	Pressure, Pa (mml	Hg)	762.1	

	Orifice Transfer Standard Information							
Serial No.	3864	Slope, mc	0.05922	Intercept, bc	-0.02420			
Last Calibration Date:	31-Jan-22	1	mc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$] ^{1/2}			
Next Calibration Date:	31-Jan-23		$Qstd = \{ [\Delta H x]$	(Pa/760) x (298/Ta)] ^{1/2} -bc} /	mc			

		Calibration of	TSP Sampler		
Calibration		Orfice			HVS
Point	ΔH (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis
1	12.9	3.61	61.39	8.8	2.98
2	9.3	3.07	52.18	6.2	2.50
3	7.8	2.81	47.83	4.8	2.20
4	4.8	2.20	37.61	3.0	1.74
5	3.1	1.77	30.30	2.0	1.42
Slope , mw = Correlation	coefficient* =		Intercept, bw -	-0.138	7
From the TSD Fi	ald Calibration C	Set Point C urve, take Qstd = 43 CFM	alculation		
		e "Y" value according to			
Therefore, Se	et Point; W = (mv	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$ $\mathbf{v} \mathbf{x} \mathbf{Qstd} + \mathbf{bw}^{2} \mathbf{x} (760 / Pa) \mathbf{x} ($			
Remarks:					
Conducted by:	Wong Shi	ng Kwai Signature:	k	×.	Date: 4-Nov-22
Checked by:	Henry I	Leung Signature:	la-	J Xrong	Date: 4-Nov-22



File No. MA20003/55/0016

Project No.	CKL 2 - Flat 10	3 Cha Kwo Ling	Village				
Date:	5-Se	ep-22	Next Due Date:	5-N	Jov-22	Operator:	SK
Equipment No.:	A-0	1-55	Model No.:	TE	2 5170	Serial No.	1956
			Ambient C	ondition			
Temperatur	re, Ta (K)	304.1	Pressure, Pa			753.4	
		Or	ifice Transfer Star	ndard Informa	ation		
Serial	No.	3864	Slope, mc	0.05922	Intercept		-0.02420
Last Calibra	ation Date:	31-Jan-22			$c = [\Delta H x (Pa/760)]$		
Next Calibra	ation Date:	31-Jan-23	($Qstd = \{ [\Delta H x]$	(Pa/760) x (298/7	Γa)] ^{1/2} -bc} / m	ic
		•					
			Calibration of 7	FSP Sampler			
Calibration		Or	fice	-		HVS	1/2
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		50) x (298/Ta)] ^{1/2} '-axis
1	12.7		3.51	59.72	9.7		3.07
2	10.7		3.22	54.85	7.5		2.70
3	8.5		2.87	48.93	5.7		2.35
4	5.2		2.25	38.36	3.1		1.74
5	2.8		1.65	28.26	1.7		1.29
By Linear Regr Slope , mw = Correlation		_	.9966	Intercept, bw =	-0.368	3	
*If Correlation C		90, check and rec	calibrate.				
			Set Point Ca	alculation			
From the TSP Fi	eld Calibration (Curve, take Qstd	= 43 CFM				
From the Regres	sion Equation, tl	ne "Y" value acco	ording to				
		mw x O	$\mathbf{bstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$	(Pa/760) x (29	$98/T_{\rm P}$		
Therefore, Se	et Point; W = (m	w x Qstd + bw)	² x (760 / Pa) x (7	Га / 298) =	4.36		
Remarks:							
Conducted by:	Wong Sh	iing Kwai	Signature:	k	<u>у</u> .	Date:	5-Sep-22
Checked by:	Henry	Leung	Signature:	-lan	1 May	Date:	5-Sep-22



File No. MA20003/55/017

Project No.	CKL 2 - Flat 10	03 Cha Kwo Lir	ng Village			
Date:	5-N	lov-22	Next Due Date:	5-Jan-23	Operator:	SK
Equipment No.:	A-0	01-55	Model No.:	TE 5170	Serial No.	1956
			Ambient Conditi	ion		
Temperatu	ıre, Ta (K)	294.5	Pressure, Pa (mmH	Ig)	764.3	

Orifice Transfer Standard Information							
Serial No.	3864	Slope, mc	0.05922	Intercept, bc	-0.02420		
Last Calibration Date:	31-Jan-22	1	mc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$	$]^{1/2}$		
Next Calibration Date:	31-Jan-23		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} \mathbf{x}] \}$	$\left(\text{Pa/760} \right) x \left(298/\text{Ta} \right) \right]^{1/2} \text{-bc} \} / $	mc		

Calibration of TSP Sampler							
Calibration		Orfice			HVS		
Point	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis		
1	12.5	3.57	60.63	9.6	3.13		
2	10.5	3.27	55.61	7.3	2.73		
3	8.4	2.92	49.78	5.5	2.37		
4	5.1	2.28	38.88	2.9	1.72		
5	2.7	1.66	28.40	1.7	1.32		
Slope , mw = Correlation	coefficient* =	0.9931), check and recalibrate.	-	-0.365	2		
		Set Point C urve, take Qstd = 43 CFM e "Y" value according to mw x Qstd + bw = [ΔW y		98/Ta)] ^{1/2}			
Therefore, Se	et Point; W = (mv	$(x + bw)^2 x (760 / Pa) x ($	Ta / 298) =	4.11			
Remarks:							
Conducted by:	Wong Shi	ng Kwai Signature:	k \-le	火.	Date: 5-Nov-22		
Checked by:	Henry I	Leung Signature:	-le-	g Xoz	Date: 5-Nov-22		



Certificate of Calibration

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler

Description:	Laser Dust Mo	nitor		Date of	of Calibration	29-Sep-22
Manufacturer:	Sibata Scientif	ic Technology LTD.		Validity of Calibra	ation Record	29-Nov-22
Model No .:	LD-3B					
Serial No.:	2Y6194					
Equipment No.:	SA-01-02		Sensitivity	0.001 mg/m3		
High Volume Sa	ampler No.:	A-01-03	Before Sensit	tivity Adjustment	578	
Tisch Calibration	n Orifice No.:	3864	After Sensitiv	vity Adjustment	578	
		Calibr	ation of 1 hr T	SP		
Calibration		Laser Dust Monitor			HVS	
Point	Total Count	Count / Minute X-axis	e	Mass	s concentration (µ Y-axis	ıg/m ³)
1	4150	69.2			173.0	
2	3650	60.8			153.0	
3	2950	49.2			128.0	
Aver	rage	59.7			151.3	
By Linear Regr Slope , mw =			Inter	cept, bw =	17.3693	<u> </u>
Correl	lation coefficien	.t* =0.9	995			
Set Correlation I SCF = [K=Hig		pler / Dust Meter, (µ g/m3)]	2.5		

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Those filter papers are weighted by HOKLAS laboratory (HPCT Limited)

Calibrated by:

Approved by: Project Manager (Henry Leung)



Certificate of Calibration

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler

Description:	Digital Dust Indicator		Date	of Calibration	29-Sep-22	
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ation Record	29-Nov-22	
Model No.:	LD-5R					
Serial No.:	8Y2374					
Equipment No.:	SA-01-04	Sensitivity	0.001 mg/m3			
High Volume Sa	ampler No.: <u>A-01-03</u>	Before Sensiti	vity Adjustment	652		
Tisch Calibratio	on Orifice No.: <u>3864</u>	After Sensitivi	ty Adjustment	652		
	Ca	libration of 1 h	r TSP			
Calibration	Laser Dust Monitor			HVS		
Point	Mass Concentration (µg/n	m3)	Mas	Mass concentration ($\mu g/m^3$)		
	X-axis			Y-axis		
1	72.0		153.0			
2	65.0			135.0		
3	54.0			116.0		
Average	63.7			134.7		
By Linear Regr Slope , mw = Correlation co			cept, bw =	5.6579		
	Se	t Correlation F	actor			
Particaulate Concentration by High Volume Sampler (μ g/m ³)			134.7			
Particaulate Con	ncentration by Dust Meter ($\mu g/m^3$)			63.7		
Measureing time	e, (min)			60.0		
Set Correlation I	Factor, SCF					
SCF = [K=Hig	h Volume Sampler / Dust Meter, (με	g/m3)]	2.1			

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Those filter papers are weighted by HOKLAS laboratory (HPCT Litimed)

Calibrated by:

len thay Approved by: Project Manager (Henry Leung)



Certificate of Calibration

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler

Description:	Digital Dust Indicator		Date	of Calibration	29-Sep-22
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibre	ration Record	29-Nov-22
Model No.:	LD-5R				
Serial No.:	972777				
Equipment No.:	SA-01-06	Sensitivity	0.001 mg/m3	_	
High Volume Sa	ampler No.: <u>A-01-03</u>	Before Sensiti	vity Adjustment	645	
Tisch Calibratio	n Orifice No.: <u>3864</u>	After Sensitivi	ty Adjustment	645	
	Ca	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor	•		HVS	
Point	Mass Concentration (µg/ X-axis	(m3)	Mas	ss concentration (µ Y-axis	ıg/m ³)
1	76.0			156.0	
2	69.0			145.0	
3	56.0			115.0	
Average	67.0			138.7	
By Linear Regi	ression of Y on X				
Slope , mw =	2.0825	Inter	cept, bw =	-0.8625	
Correlation co	Defficient * = 0.9960				
		t Correlation F	actor		
	centration by High Volume Sampler ((µg/m³)		138.7	
	centration by Dust Meter ($\mu g/m^3$)			67.0	
Measureing time				60.0	
Set Correlation					
SCF = [K=Hig	h Volume Sampler / Dust Meter, (µ	g/m3)]	2.1		

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Those filter papers are weighted by HOKLAS laboratory (HPCT Litimed)

Calibrated by:

Approved by: en any

Project Manager (Henry Leung)



Certificate of Calibration

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler

Description:	Digital Dust Indicator		Date	of Calibration	29-Sep-22
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ration Record	29-Nov-22
Model No.:	LD-5R				
Serial No.:	972778				
Equipment No.:	SA-01-07	Sensitivity	0.001 mg/m3	-	
High Volume Sa	ampler No.: A-01-03	Before Sensiti	vity Adjustment	735 CPM	
Tisch Calibratio	n Orifice No.: <u>3864</u>	After Sensitivi	ty Adjustment	735 CPM	
	Ca	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor	•		HVS	
Point	Mass Concentration (µg/: X-axis	m3)	Mas	ss concentration (µ Y-axis	ug/m ³)
1	74.0			156.0	
2	65.0			135.0	
3	52.0			110.0	
Average	63.7			133.7	
By Linear Regr	ression of Y on X				
Slope , mw =	2.0790	Intero	cept, bw =	1.3025	
Correlation co	oefficient* = 0.9985				

Set Correlation Factor						
Particaulate Concentration by High Volume Sampler ($\mu g/m^3$)	133.7					
Particaulate Concentration by Dust Meter ($\mu g/m^3$)	63.7					
Measureing time, (min)	60.0					
Set Correlation Factor, SCF						
SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)]	2.1					

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Those filter papers are weighted by HOKLAS laboratory (HPCT Litimed)

Calibrated by:

Approved by: len they Project Manager (Henry Leung)



Certificate of Calibration

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler

Description:	Digital Dust Indicator		Date	of Calibration	29-Sep-22
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ation Record	29-Nov-22
Model No.:	LD-5R				
Serial No.:	972779				
Equipment No.:	SA-01-08	Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.: <u>A-01-03</u>	Before Sensitiv	ity Adjustment	744 CPM	
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitivit	y Adjustment	744 CPM	
Calibration of 1 hr TSP					
Calibration Point Laser Dust Monitor Mass Concentration (µg/r X-axis		•	HVS		
		(m3)	Mass concentration (µg/m ³) Y-axis		ug/m ³)
1	75.0			158.0	
2	64.0			136.0	
3	52.0			111.0	
Average 63.7				135.0	
By Linear Regression of Y on X Slope , mw = 2.0441 Intercept, bw = 4.8602					
Correlation co			сри, юм —	4.0002	

Set Correlation Factor				
Particaulate Concentration by High Volume Sampler (µg/m ³)	135.0			
Particaulate Concentration by Dust Meter ($\mu g/m^3$) 63.7				
Measureing time, (min)	60.0			
Set Correlation Factor, SCF				
SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)] 2.1				

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Those filter papers are weighted by HOKLAS laboratory (HPCT Litimed)

Calibrated by:



Certificate of Calibration

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler

Description:	Digital Dust Indicator		Date of	of Calibration	29-Sep-22
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ation Record	29-Nov-22
Model No.:	LD-5R				
Serial No.:	972780				
Equipment No.:	SA-01-09	Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.: <u>A-01-03</u>	Before Sensitiv	vity Adjustment	739 CPM	
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitivi	ty Adjustment	739 CPM	
	Ca	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor	•		HVS	
Point	Mass Concentration (µg/	m3)	Mas	s concentration (µ	$\iota g/m^3$)
	X-axis			Y-axis	
1	74.0			162.0	
2	65.0			146.0	
3	52.0			116.0	
Average	63.7			141.3	
By Linear Regr Slope , mw = Correlation co	ression of Y on X 		ept, bw =	7.2343	
	Se	t Correlation F	actor		

Set Correlation Factor				
Particaulate Concentration by High Volume Sampler (μ g/m ³) 141.3				
Particaulate Concentration by Dust Meter ($\mu g/m^3$) 63.7				
Measureing time, (min) 60.0				
Set Correlation Factor, SCF				
SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)] 2.2				

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Those filter papers are weighted by HOKLAS laboratory (HPCT Litimed)

Calibrated by:

Approved by: _____ Project Manager (Henry Leung)



Certificate of Calibration

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler

Description:	Digital Dust Indicator		Date	of Calibration	29-Sep-22
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ration Record	29-Nov-22
Model No.:	LD-5R				
Serial No.:	972781				
Equipment No.:	SA-01-10	Sensitivity	0.001 mg/m3	-	
High Volume Sa	mpler No.: <u>A-01-03</u>	Before Sensitiv	vity Adjustment	734 CPM	
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitivi	ty Adjustment	734 CPM	
	Cal	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor			HVS	
Point	Mass Concentration (µg/n X-axis	m3)	Mas	ss concentration (µ Y-axis	ıg/m ³)
1	77.0			159.0	
2	65.0			135.0	
3	52.0			110.0	
Average	64.7			134.7	
By Linear Regression of Y on X Slope , mw = <u>1.9595</u> Intercept, bw = <u>7.9531</u> Correlation coefficient* = <u>0.9999</u>					
	Set	t Correlation F	actor		

Set Correlation Factor				
Particaulate Concentration by High Volume Sampler ($\mu g/m^3$)	134.7			
Particaulate Concentration by Dust Meter ($\mu g/m^3$) 64.7				
Measureing time, (min) 60.0				
Set Correlation Factor, SCF				
SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)]	2.1			

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Those filter papers are weighted by HOKLAS laboratory (HPCT Litimed)

Calibrated by:

Approved by: len drag Project Manager (Henry Leung)

Report No.

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

: 00150



Issue Date : 16 Nov 2021

Application No. : HP00032 **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Sound Level Calibrator. Equipment No.: : N-13-01 Manufacturer: : SOUNDTEK Other information : Model No. ST-120 Serial No. 181001608 : 05 Nov 2021 Date Received Test Period : 08 Nov 2021 to 12 Nov 2021 : Performance checking for Sound Level Calibrator **Test Requested** Test Method : The Sound Level Meter and Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent. **Test conditions** : Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%

Test Result : Refer to the test result(s) on page 2.

Remark : 1. Information of the sample description provided by the Applicant.

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

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Lee Wai Kit Laboratory Manager

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Issue Date : 16 Nov 2021

Report No.:00150Application No.:HP00032

Certificate of Calibration

Measuring equipment

Sound Calibrator
Brüel & Kjær
TYPE 4231
2326353
N-02-01
Sound Meter
BSWA Technology
BSWA 308
570188
570608
N-12-03

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+0.1	± 0.3
114.0	114.0	0.0	± 0.5

- Note : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.
 - 2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk



: 00287 Issue Date : 09 Nov 2022 Report No. Application No. : HP00168 **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Sound Level Calibrator. Equipment No.: : N-09-02 Manufacturer: : SVANTEK Other information : Model No. SV 30A Serial No. 10965 : 08 Nov 2022 Date Received Test Period : 08 Nov 2022 to 08 Nov 2022 : Performance checking for Sound Level Calibrator **Test Requested** Test Method : The Sound Level Meter and Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent. **Test conditions** : Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70% Test Result : Refer to the test result(s) on page 2.

Remark : 1. Information of the sample description provided by the Applicant.2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

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Lee Wai Kit Laboratory Manager

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Issue Date : 09 Nov 2022

Report No.:00287Application No.:HP00168

Certificate of Calibration

Measuring equipment

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01
Description	Sound Meter
Manufacturer	BSWA Technology
Model No.	BSWA 308
Serial No.	570183
Microphone No.	570605
Equipment No.	N-12-01

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.2	+ 0.2	± 0.3
114.0	114.1	+ 0.1	± 0.5

- Note : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.
 - 2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

Report No.

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

: 00160



Issue Date : 10 Jan 2022

: HP00040 Application No. **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Integrating Sound Level Meter. **Equipment No.:** : N-08-07 Manufacturer: : SVANTEK Other information : Model No. SVAN 957 Serial No. 21455 Microphone No. 22391

Date Received	:	03 Jan 2022
Test Period	:	10 Jan 2022 to 10 Jan 2022
Test Requested	:	Performance checking for Sound Level Meter
Test Method	:	The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.
Test conditions	:	Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%
Test Result	:	Refer to the test result(s) on page 2.

: 1. Information of the sample description provided by the Applicant. Remark

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

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Issue Date : 10 Jan 2022

Report No.:00160Application No.:HP00040

Certificate of Calibration

Measuring

equipment

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	93.9	-0.1	± 1.5
114.0	113.8	-0.2	± 1.5

Note : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

Report No.

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

: 00168



Issue Date : 25 Jan 2022

: HP00044 Application No. **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Integrating Sound Level Meter. **Equipment No.:** : N-08-11 Manufacturer: : SVANTEK Other information : Model No. SVAN 957 Serial No. 23852 Microphone No. 22454 Data Racaivad 20 Jan 2022

Date Received	:	20 Jan 2022
Test Period	:	21 Jan 2022 to 21 Jan 2022
Test Requested	:	Performance checking for Sound Level Meter
Test Method	:	The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.
Test conditions	:	Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%
Test Result	:	Refer to the test result(s) on page 2.

: 1. Information of the sample description provided by the Applicant. Remark

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

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Issue Date : 25 Jan 2022

Report No.:00168Application No.:HP00044

Certificate of Calibration

Measuring

equipment

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+0.1	± 1.5
114.0	114.2	+0.2	± 1.5

Note : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

Report No.

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

: 00164



Issue Date : 25 Jan 2022

: HP00042 Application No. **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Integrating Sound Level Meter. Equipment No.: : N-08-12 Manufacturer: : SVANTEK Other information : Model No. SVAN 957 Serial No. 23851 Microphone No. 17204 . . . ~~~~

Date Received	:	19 Jan 2022
Test Period	:	21 Jan 2022 to 21 Jan 2022
Test Requested	:	Performance checking for Sound Level Meter
Test Method	:	The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.
Test conditions	:	Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%
Test Result	:	Refer to the test result(s) on page 2.

: 1. Information of the sample description provided by the Applicant. Remark

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

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Issue Date : 25 Jan 2022

Report No.:00164Application No.:HP00042

Certificate of Calibration

Measuring

equipment

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+0.1	± 1.5
114.0	114.2	+0.2	± 1.5

Note : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

Report No.

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

: 00171



Issue Date : 01 Apr 2022

: HP00046 Application No. **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Integrating Sound Level Meter. Equipment No.: : N-12-05 Manufacturer: : BSWA Technology Other information : Model No. **BSWA 308** Serial No. 580287 Microphone No. 570610 Date Received : 25 Mar 2022

Date Received	•	
Test Period	:	30 Mar 2022 to 30 Mar 2022
Test Requested	:	Performance checking for Sound Level Meter
Test Method	:	The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.
Test conditions	:	Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%
Test Result	:	Refer to the test result(s) on page 2.

Remark : 1. Information of the sample description provided by the Applicant.2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

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Issue Date : 01 Apr 2022

Report No.:00171Application No.:HP00046

Certificate of Calibration

Measuring

equipment

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.0	0.0	± 1.5
114.0	114.2	+0.2	± 1.5

Note : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

Report No.

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

: 00181



Issue Date : 24 May 2022

: HP00060 Application No. **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Integrating Sound Level Meter. Equipment No.: : N-12-06 Manufacturer: : BSWA Technology Other information : Model No. **BSWA 308** Serial No. 580156 Microphone No. 580804 Date Received : 16 May 2022

	•	
Test Period	:	24 May 2022 to 24 May 2022
Test Requested	:	Performance checking for Sound Level Meter
Test Method	:	The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.
Test conditions	:	Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%
Test Result	:	Refer to the test result(s) on page 2.

Remark : 1. Information of the sample description provided by the Applicant.2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

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Issue Date : 24 May 2022

Report No.:00181Application No.:HP00060

Certificate of Calibration

Measuring

equipment

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	93.9	-0.1	± 1.5
114.0	114.1	+0.1	± 1.5

Note : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

Report No. Application No.

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

: 00235

: HP00106



Issue Date : 16 Aug 2022

Certificate of Calibration

Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong

Sample Description : Submitted equipment stated to be YSI EXO1 Multi-parameter Sonde.

Equipment No.: : SW-08-12

Manufacturer: : YSI Incorporated, a Xylem brand

Other information

Description:Serial No.- EXO Optical DO Sensor, Ti17K104615- EXO conductivity/Temperature Sensor, Ti16H100192- EXO Turbidity Sensor, Ti17K100333- EXO pH Sensor Assembly, Guarded, Ti16J101273

Date Received	: 4 Aug 2022
Test Period	: 4 Aug 2022 to 12 Aug 2022
Test Requested	: Performance checking for Conductivity, Temperature, pH, Dissolved oxygen (D.O.) and Turbidity
Test Method	: According to manufacturer instruction manual, APHA 23rd Ed 4500-O G
Test conditions	: Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%
Test Result	: Refer to the test result(s) on page 2.

Remark : 1. Information of the sample description provided by the Applicant.

2. The results relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

High Precision Chemical Testing Ltd.

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00235

Issue Date : 16 Aug 2022

Application No. : HP00106

Certificate of Calibration

Test Result : Conductivity performance checking

Expected Reading	Instrument Readings	Acceptance	Comment
(mS/cm)	(mS/cm)	Criteria	
146.9	148.8	140-154	Pass
1412	1422	1341-1483	Pass
6667	6754	6334-7000	Pass
12890	13036	12246-13535	Pass
58670	58850	55737-61604	Pass

Temperature performance checking

Expected Reading (°C)	Instrument Readings (°C)	Acceptance Criteria	Comment
10.0	10.267	10.0 ± 2.0	Pass
25.0	25.322	25.0 ± 2.0	Pass
35.0	35.316	35.0 ± 2.0	Pass

pH performance checking

Expected Reading (pH unit)	Instrument Readings (pH unit)	Acceptance Criteria	Comment
4.01	3.98	4.01 ± 0.2	Pass
7.00	7.09	7.00 ± 0.2	Pass
10.01	10.06	10.01 ± 0.2	Pass

D.O. performance checking

Expected Readin	g Instrument Readings	Acceptance	Comment
	(mg/L)	Criteria	
0.00	0.55		
9.00	8.85	±0.20	Pass

Turbidity performance checking

Expected Reading(NTU)	Instrument Readings	Acceptance	Comment
	(NTU)	Criteria	
0	0.18		
5	4.95	4.5-5.5	Pass
50	49.64	45-55	Pass
100	98.70	90-110	Pass

Note : "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

- End of report -

CALIBRATION CERTIFICATE

Calibration Item:		Micromate System ISEE (Calibration		
		Geophone UM13704)		
	Model No.:	721A2501		
	Serial No.:	UM13704		
	Calibration Date:	29 April, 2022		
	Next Calibration Date:	29 April 2023		
	Method Used:	In-house Method B3-001		
	In-house Testing Procedure No.:	B3-001		

Test References	Model	Serial No.
Blastmate III	714A0801	BA15521
ISEE Triaxial Geophone	714A9701	BG14463
15MHz Function Generator*	33120A	US34003309
Stanford Spectrum Analyzer	SR760	41550
Keysight Multimeter*	34470A	MY57700765
HP Distortion Meter*	339A	2025A04515
Bruel & Kjaer Accelerometer*	4370	31474
Bruel & Kjaer Charge Amplifier*	2647	2731339
Bruel & Kjaer Conditional Amplifier*	2690	2437929
LDS Air Cooled Vibrator	V556	92794/1
LDS Field Power Supply	FPS10L	ARA 04/05
LDS Power Amplifier	PA1000L	ARA 07/06
*D (

*References are traceable to NIST or equivalent.

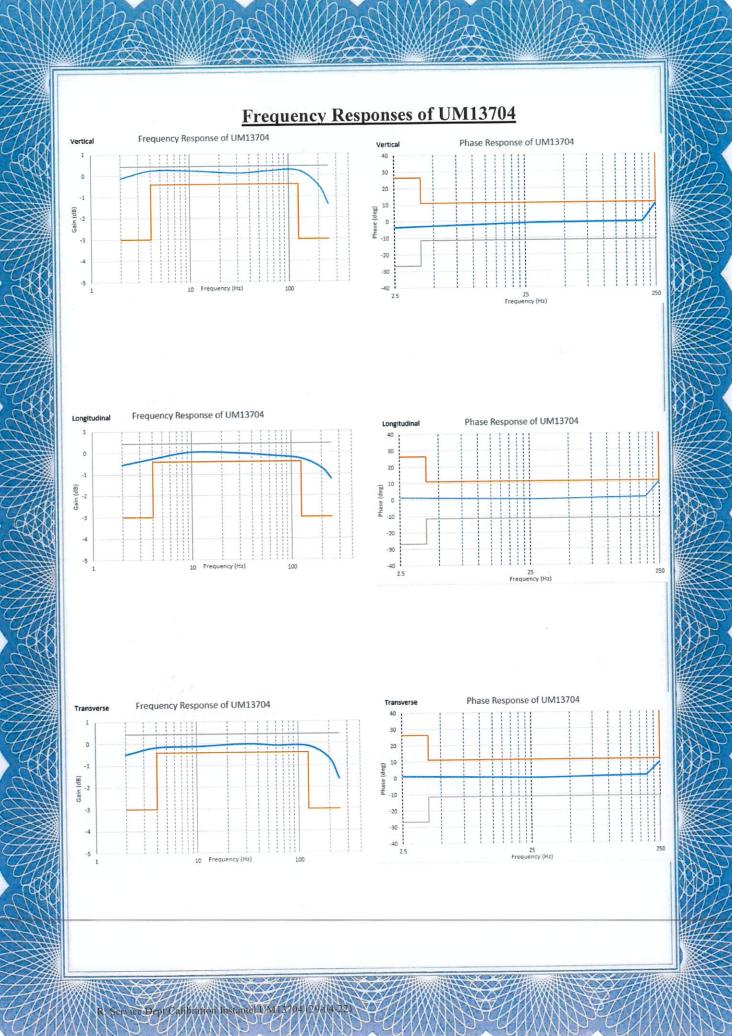
ation Instantel UM

INSTANTEL INC. hereby certifies that this unit has been calibrated and that the results are consistent with the specifications published regarding this instrument. The SENSORCHECK feature of the unit is sufficiently reliable to indicate proper operation, although it is recommended that this unit be sent to INSTANTEL or an authorized service center for regular calibration.

Authorized by:

(Isaac Au Yeung) Date: 29 April 2022

with



CALIBRATION CERTIFICATE

TRIAXIAL GEOPHONE (Calibration with
main unit UM13704)
721A2901
UM13704
29 April 2022
29 April 2023
In-house Method B3-001
B3-001

Test References	Model	Serial No.
Blastmate III	714A0801	BA15521
ISEE Triaxial Geophone	714A9701	BG14463
15MHz Function Generator*	33120A	US34003309
Stanford Spectrum Analyzer	SR760	41550
Keysight Multimeter*	34470A	MY57700765
HP Distortion Meter*	339A	2025A04515
Bruel & Kjaer Accelerometer*	4370	31474
Bruel & Kjaer Charge Amplifier*	2647	2731339
Bruel & Kjaer Conditional Amplifier*	2690	2437929
LDS Air Cooled Vibrator	V556	92794/1
LDS Field Power Supply	FPS10L	ARA 04/05
LDS Power Amplifier	PA1000L	ARA 07/06

*References are traceable to NIST or equivalent.

the Dept Calibration Instantel UN137

INSTANTEL INC. hereby certifies that this unit has been calibrated and that the results are consistent with the specifications published regarding this instrument. The SENSORCHECK feature of the unit is sufficiently reliable to indicate proper operation, although it is recommended that this unit be sent to INSTANTEL or an authorized service center for regular calibration.

Authorized by:

(Isaac Au Yeung) Date: 29 April 2022

CALIBRATION CERTIFICATE

Calibration Item:	Linear Microphone (Calibration with main unit
	UM13704)
Model No.:	721A0201
Serial No.:	UL3385
Calibration Date:	29 April 2022
Next Calibration Date:	29 April 2023
Method Used:	In-house Method MM-002
In-house Testing Procedure No.:	MM-002

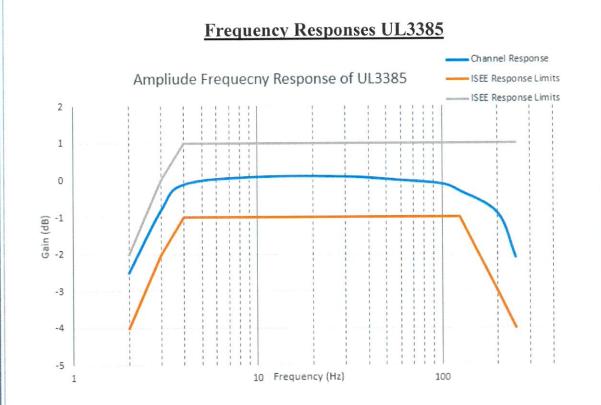
Test References	Model	Serial No.
Blastmate III	714A0801	BA15521
Linear Microphone	714A9801	BH13695
15MHz Function Generator*	33120A	US34003309
Stanford Spectrum Analyzer	SR760	41550
Keysight Multimeter*	34470A	MY57700765
HP Distortion Meter	339A	2025A04515
Bruel & Kjaer Microphone	4193	2677340
Low Frequency Calibrator	42AE	105366
Bruel & Kjaer Conditional Amplifier	269	2152173
*References are traceable to NIST or equiv	valent.	

INSTANTEL INC. hereby certifies that this unit has been calibrated and that the results are consistent with the specifications published regarding this instrument. The SENSORCHECK feature of the unit is sufficiently reliable to indicate proper operation, although it is recommended that this unit be sent to INSTANTEL or an authorized service center for regular calibration.

Authorized by:

i Instant

(Isaac Au Yeung) Date: 29 April 2022



ice Deput alibration instantel CI 3385 (29)04



MSA Hong Kong Ltd.

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Date: 19-Aug-22

Ref.2022/08/017CustomerLeighton China State Joint Venture

CERTIFICATE FOR CALIBRATION CHECK TEST

Model	Serial No.	Calibration Check Gas	Regulator	Full Scale	Response
Altair 5X 152097		1.45% Methane,		100% LEL	29%LEL
	15% Oxygen		30% Vol	15% O2	
	152007	60ppm Carbon Monoxide	.25litre/min	1999 ppm	60ppm CO
	152097	20ppm Hydrogen Sulfide		200 ppm	20ppm H2S
		2.5% Carbon Dioxide		10% Vol	2.5% CO2
		25ppm Ammonia	Demand	100 ppm	25ppm NH3

Remarks: Regular inspection completed. Calibration passed

MSA Hong Kong Ltd. certify that instrument/s listed above has/have been calibrated check tested on: 19-Aug-22

This instrument was calibrated in accordance with all requirements of the specifications of MSA.

This instrument must be calibration checked prior to use in accordance with the instruction manual.

This instrument was calibrated using NIST traceable equipment and was in accordance with all requirements of the drawings and specifications of MSA.

For and on behalf of MSA Hong Kong Ltd.

Authorised Signature

APPENDIX C WEATHER INFORMATION

100010 10 00000	er over the Reporting Mo	November 2022				
	Table I					
Day	Mean Pressure (hPa)	Air Temperature Mean (°C)	Mean Relative Humidity (%)	Total Rainfall (mm)		
1	1008.2	22.0	64.0	4.5		
2	1007.0	20.2	86.0	23.7		
3	1012.0	22.1	93.0	58.1		
4	1012.0	22.6	87.0	4.0		
5	1019.0	21.5	79.0	Trace		
6	1018.6	20.8	84.0	6.6		
7	1017.3	21.5	85.0	1.6		
8	1017.3	22.4	85.0	7.7		
9	1017.3	23.8	77.0	0.0		
10	1016.7	24.8	78.0	0.0		
11	1016.2	25.0	77.0	0.0		
12	1015.3	24.6	79.0	Trace		
13	1015.7	24.8	81.0	0.0		
14	1016.7	24.1	79.0	0.0		
15	1015.5	24.3	78.0	0.0		
16	1015.0	24.1	80.0	0.0		
17	1014.6	24.5	80.0	0.0		
18	1015.6	24.6	80.0	0.0		
19	1015.0	25.1	77.0	0.0		
20	1014.0	24.7	78.0	0.0		
21	1013.6	23.9	78.0	0.5		
22	1013.1	23.4	86.0	2.5		
23	1013.8	23.4	91.0	3.4		
24	1015.2	21.8	93.0	9.6		
25	1015.6	22.3	92.0	4.8		
26	1014.8	22.7	88.0	0.5		
27	1012.6	23.1	90.0	1.9		
28	1012.5	25.6	88.0	1.4		
29	1013.5	25.5	85.0	0.0		
30	1017.3	22.8	82.0	0.0		

Table I: Weather over the Reporting Month

November 2022					
	Table II: Wind Speed and Directions				
Date	Time	Direction	Wind Speed m ^{-s}		
1 Nov 2022	12:00 AM	SE	0.1		
1 Nov 2022	1:00 AM	SE	0.3		
1 Nov 2022	2:00 AM	SE	0.1		
1 Nov 2022	3:00 AM	ESE	1.2		
1 Nov 2022	4:00 AM	Е	0.1		
1 Nov 2022	5:00 AM	Е	0.2		
1 Nov 2022	6:00 AM	SSE	0.4		
1 Nov 2022	7:00 AM	Е	0.4		
1 Nov 2022	8:00 AM	ENE	0.1		
1 Nov 2022	9:00 AM	ENE	0.1		
1 Nov 2022	10:00 AM	NNW	0.1		
1 Nov 2022	11:00 AM	SE	0.8		
1 Nov 2022	12:00 PM	SW	0.2		
1 Nov 2022	1:00 PM	WNW	0.4		
1 Nov 2022	2:00 PM	ENE	0.1		
1 Nov 2022	3:00 PM	SE	0.3		
1 Nov 2022	4:00 PM	SE	0.1		
1 Nov 2022	5:00 PM	SE	1.2		
1 Nov 2022	6:00 PM	ESE	0.1		
1 Nov 2022	7:00 PM	Е	0.2		
1 Nov 2022	8:00 PM	Е	0.4		
1 Nov 2022	9:00 PM	SSE	0.4		
1 Nov 2022	10:00 PM	Е	0.1		
1 Nov 2022	11:00 PM	ENE	0.1		
2 Nov 2022	12:00 AM	ENE	0.1		
2 Nov 2022	1:00 AM	ENE	0.8		
2 Nov 2022	2:00 AM	Е	0.2		
2 Nov 2022	3:00 AM	NE	0.1		
2 Nov 2022	4:00 AM	SW	0.1		
2 Nov 2022	5:00 AM	SSW	0.1		
2 Nov 2022	6:00 AM	ENE	0.1		
2 Nov 2022	7:00 AM	ENE	0.1		
2 Nov 2022	8:00 AM	ENE	1.8		
2 Nov 2022	9:00 AM	NE	0.8		
2 Nov 2022	10:00 AM	NE	0.5		
2 Nov 2022	11:00 AM	ENE	1.4		
2 Nov 2022	12:00 PM	E	0.2		
2 Nov 2022	1:00 PM	NE	0.7		
2 Nov 2022	2:00 PM	NE	0.4		
2 Nov 2022	3:00 PM	E	0.1		
2 Nov 2022	4:00 PM	NE	0.1		
2 Nov 2022	5:00 PM	Ν	0.3		
2 Nov 2022	6:00 PM	NE	0.1		
2 Nov 2022	7:00 PM	SSE	0.1		
2 Nov 2022	8:00 PM	ENE	0.1		
2 Nov 2022	9:00 PM	E	0.6		

November 2022				
Table II: Wind Speed and Directions				
Date	Time	Direction	Wind Speed m ^{-s}	
2 Nov 2022	10:00 PM	ENE	3.0	
2 Nov 2022	11:00 PM	Е	0.5	
3 Nov 2022	12:00 AM	ENE	0.2	
3 Nov 2022	1:00 AM	SE	0.1	
3 Nov 2022	2:00 AM	SE	0.2	
3 Nov 2022	3:00 AM	SE	0.1	
3 Nov 2022	4:00 AM	ESE	0.1	
3 Nov 2022	5:00 AM	Е	0.1	
3 Nov 2022	6:00 AM	Е	0.1	
3 Nov 2022	7:00 AM	SSE	0.1	
3 Nov 2022	8:00 AM	Е	1.4	
3 Nov 2022	9:00 AM	ENE	1.7	
3 Nov 2022	10:00 AM	ENE	0.2	
3 Nov 2022	11:00 AM	ENE	0.5	
3 Nov 2022	12:00 PM	NNE	1.6	
3 Nov 2022	1:00 PM	ESE	0.1	
3 Nov 2022	2:00 PM	ESE	0.1	
3 Nov 2022	3:00 PM	E	0.1	
3 Nov 2022	4:00 PM	Е	0.3	
3 Nov 2022	5:00 PM	NE	0.1	
3 Nov 2022	6:00 PM	NE	1.2	
3 Nov 2022	7:00 PM	ENE	0.1	
3 Nov 2022	8:00 PM	NE	0.2	
3 Nov 2022	9:00 PM	NE	0.4	
3 Nov 2022	10:00 PM	ENE	0.4	
3 Nov 2022	11:00 PM	NE	0.1	
4 Nov 2022	12:00 AM	E	0.1	
4 Nov 2022	1:00 AM	ENE	0.1	
4 Nov 2022	2:00 AM	ESE	0.8	
4 Nov 2022	3:00 AM	E	0.2	
4 Nov 2022	4:00 AM	E	0.1	
4 Nov 2022	5:00 AM	E	0.1	
4 Nov 2022	6:00 AM	ENE	0.1	
4 Nov 2022	7:00 AM	NE	0.1	
4 Nov 2022	8:00 AM	NE	0.2	
4 Nov 2022	9:00 AM	NNW	0.1	
4 Nov 2022	10:00 AM	E	0.2	
4 Nov 2022	11:00 AM	WSW	0.1	
4 Nov 2022	12:00 PM	E	0.2	
4 Nov 2022	1:00 PM	S	0.1	
4 Nov 2022	2:00 PM	ENE	0.1	
4 Nov 2022	3:00 PM	SSW	0.3	
4 Nov 2022	4:00 PM	SSE	0.1	
4 Nov 2022	5:00 PM	E	0.1	
4 Nov 2022	6:00 PM	SE	0.2	
4 Nov 2022	7:00 PM	E	0.1	

November 2022					
	Table II: Wind Speed and Directions				
Date	Time	Direction	Wind Speed m ^{-s}		
4 Nov 2022	8:00 PM	Е	0.1		
4 Nov 2022	9:00 PM	ENE	0.2		
4 Nov 2022	10:00 PM	ESE	0.1		
4 Nov 2022	11:00 PM	ESE	0.1		
5 Nov 2022	12:00 AM	SE	0.1		
5 Nov 2022	1:00 AM	SE	0.1		
5 Nov 2022	2:00 AM	SE	0.1		
5 Nov 2022	3:00 AM	ESE	0.1		
5 Nov 2022	4:00 AM	Е	0.1		
5 Nov 2022	5:00 AM	Е	0.1		
5 Nov 2022	6:00 AM	SSE	0.1		
5 Nov 2022	7:00 AM	E	0.1		
5 Nov 2022	8:00 AM	ENE	0.1		
5 Nov 2022	9:00 AM	ENE	0.1		
5 Nov 2022	10:00 AM	Е	0.4		
5 Nov 2022	11:00 AM	ESE	0.2		
5 Nov 2022	12:00 PM	SSE	0.4		
5 Nov 2022	1:00 PM	NE	0.1		
5 Nov 2022	2:00 PM	ENE	0.2		
5 Nov 2022	3:00 PM	SE	0.1		
5 Nov 2022	4:00 PM	ESE	0.1		
5 Nov 2022	5:00 PM	ENE	0.3		
5 Nov 2022	6:00 PM	NE	0.1		
5 Nov 2022	7:00 PM	E	1.2		
5 Nov 2022	8:00 PM	ESE	0.1		
5 Nov 2022	9:00 PM	ENE	0.2		
5 Nov 2022	10:00 PM	E	0.4		
5 Nov 2022	11:00 PM	ENE	0.4		
6 Nov 2022	12:00 AM	ENE	0.1		
6 Nov 2022	1:00 AM	E	0.1		
6 Nov 2022	2:00 AM	ENE	0.1		
6 Nov 2022	3:00 AM	NE	0.8		
6 Nov 2022	4:00 AM	ENE	0.2		
6 Nov 2022	5:00 AM	ENE	0.1		
6 Nov 2022	6:00 AM	ENE	0.1		
6 Nov 2022	7:00 AM	SSW	0.1		
6 Nov 2022	8:00 AM	SSW	0.1		
6 Nov 2022	9:00 AM	WSW	0.1		
6 Nov 2022	10:00 AM	ENE	0.2		
6 Nov 2022	11:00 AM	NE	0.2		
6 Nov 2022	12:00 PM	NNW	0.1		
6 Nov 2022	1:00 PM	NNE	0.2		
6 Nov 2022	2:00 PM	WNW	0.1		
6 Nov 2022	3:00 PM	E N	0.1		
6 Nov 2022	4:00 PM	N	0.6		
6 Nov 2022	5:00 PM	NNW	0.2		

November 2022					
	Table II: Wind Speed and Directions				
Date	Time	Direction	Wind Speed m ^{-s}		
6 Nov 2022	6:00 PM	SW	0.1		
6 Nov 2022	7:00 PM	WSW	0.1		
6 Nov 2022	8:00 PM	NNE	0.1		
6 Nov 2022	9:00 PM	NE	0.1		
6 Nov 2022	10:00 PM	Е	0.1		
6 Nov 2022	11:00 PM	SW	0.1		
7 Nov 2022	12:00 AM	NE	0.1		
7 Nov 2022	1:00 AM	ENE	0.1		
7 Nov 2022	2:00 AM	NNE	0.1		
7 Nov 2022	3:00 AM	ENE	0.1		
7 Nov 2022	4:00 AM	ENE	0.1		
7 Nov 2022	5:00 AM	Е	0.2		
7 Nov 2022	6:00 AM	ENE	0.4		
7 Nov 2022	7:00 AM	Е	0.1		
7 Nov 2022	8:00 AM	NE	0.5		
7 Nov 2022	9:00 AM	NNE	0.3		
7 Nov 2022	10:00 AM	Ν	0.1		
7 Nov 2022	11:00 AM	ENE	0.2		
7 Nov 2022	12:00 PM	ENE	2.4		
7 Nov 2022	1:00 PM	SE	0.2		
7 Nov 2022	2:00 PM	SE	0.7		
7 Nov 2022	3:00 PM	SE	0.1		
7 Nov 2022	4:00 PM	ESE	0.2		
7 Nov 2022	5:00 PM	E	0.4		
7 Nov 2022	6:00 PM	E	0.3		
7 Nov 2022	7:00 PM	SSE	0.1		
7 Nov 2022	8:00 PM	E	1.2		
7 Nov 2022	9:00 PM	ENE	0.1		
7 Nov 2022	10:00 PM	ENE	0.2		
7 Nov 2022	11:00 PM	ENE	0.4		
8 Nov 2022	12:00 AM	Е	0.4		
8 Nov 2022	1:00 AM	ENE	0.1		
8 Nov 2022	2:00 AM	ENE	0.1		
8 Nov 2022	3:00 AM	Е	0.1		
8 Nov 2022	4:00 AM	E	0.8		
8 Nov 2022	5:00 AM	NE	0.2		
8 Nov 2022	6:00 AM	ENE	0.1		
8 Nov 2022	7:00 AM	Е	0.2		
8 Nov 2022	8:00 AM	ESE	0.2		
8 Nov 2022	9:00 AM	E	1.4		
8 Nov 2022	10:00 AM	NE	2.0		
8 Nov 2022	11:00 AM	Е	0.2		
8 Nov 2022	12:00 PM	NE	0.1		
8 Nov 2022	1:00 PM	ENE	0.2		
8 Nov 2022	2:00 PM	E	0.1		
8 Nov 2022	3:00 PM	NNE	0.6		

November 2022					
	Table II: Wind Speed and Directions				
Date	Time	Direction	Wind Speed m ^{-s}		
8 Nov 2022	4:00 PM	ENE	0.1		
8 Nov 2022	5:00 PM	ENE	0.4		
8 Nov 2022	6:00 PM	Е	0.1		
8 Nov 2022	7:00 PM	ENE	0.2		
8 Nov 2022	8:00 PM	SE	0.1		
8 Nov 2022	9:00 PM	Е	1.1		
8 Nov 2022	10:00 PM	Е	0.2		
8 Nov 2022	11:00 PM	ENE	0.1		
9 Nov 2022	12:00 AM	Е	0.1		
9 Nov 2022	1:00 AM	Е	0.1		
9 Nov 2022	2:00 AM	ENE	0.1		
9 Nov 2022	3:00 AM	ENE	0.1		
9 Nov 2022	4:00 AM	NNE	0.4		
9 Nov 2022	5:00 AM	ENE	0.3		
9 Nov 2022	6:00 AM	NE	0.1		
9 Nov 2022	7:00 AM	ENE	0.1		
9 Nov 2022	8:00 AM	ESE	0.7		
9 Nov 2022	9:00 AM	NNE	0.2		
9 Nov 2022	10:00 AM	NE	0.2		
9 Nov 2022	11:00 AM	ENE	0.1		
9 Nov 2022	12:00 PM	NE	1.5		
9 Nov 2022	1:00 PM	E	0.5		
9 Nov 2022	2:00 PM	NE	0.2		
9 Nov 2022	3:00 PM	ENE	0.3		
9 Nov 2022	4:00 PM	ENE	0.1		
9 Nov 2022	5:00 PM	ENE	0.1		
9 Nov 2022	6:00 PM	ESE	0.1		
9 Nov 2022	7:00 PM	ENE	0.1		
9 Nov 2022	8:00 PM	ENE	0.1		
9 Nov 2022	9:00 PM	SE	0.1		
9 Nov 2022	10:00 PM	SE	0.1		
9 Nov 2022	11:00 PM	SE	0.1		
10 Nov 2022	12:00 AM	ESE	0.1		
10 Nov 2022	1:00 AM	E	0.1		
10 Nov 2022	2:00 AM	E	0.1		
10 Nov 2022	3:00 AM	SSE	0.1		
10 Nov 2022	4:00 AM	E	0.5		
10 Nov 2022	5:00 AM	ENE	1.1		
10 Nov 2022	6:00 AM	ENE	0.4		
10 Nov 2022	7:00 AM	NE	0.1		
10 Nov 2022	8:00 AM	NE	0.3		
10 Nov 2022	9:00 AM	NNE	0.2		
10 Nov 2022	10:00 AM	NE	0.1		
10 Nov 2022	11:00 AM	N	0.1		
10 Nov 2022	12:00 PM	ESE	0.2		
10 Nov 2022	1:00 PM	NNE	0.1		

November 2022				
Table II: Wind Speed and Directions				
Date	Time	Direction	Wind Speed m ^{-s}	
10 Nov 2022	2:00 PM	ENE	0.1	
10 Nov 2022	3:00 PM	SSE	0.1	
10 Nov 2022	4:00 PM	Е	0.3	
10 Nov 2022	5:00 PM	ENE	0.1	
10 Nov 2022	6:00 PM	ENE	1.2	
10 Nov 2022	7:00 PM	ENE	0.1	
10 Nov 2022	8:00 PM	Е	0.2	
10 Nov 2022	9:00 PM	NE	0.4	
10 Nov 2022	10:00 PM	ENE	0.4	
10 Nov 2022	11:00 PM	Е	0.1	
11 Nov 2022	12:00 AM	NE	0.1	
11 Nov 2022	1:00 AM	NNE	0.1	
11 Nov 2022	2:00 AM	ENE	0.8	
11 Nov 2022	3:00 AM	ENE	0.2	
11 Nov 2022	4:00 AM	NE	0.1	
11 Nov 2022	5:00 AM	NNE	0.1	
11 Nov 2022	6:00 AM	NE	0.1	
11 Nov 2022	7:00 AM	NE	0.1	
11 Nov 2022	8:00 AM	SE	0.1	
11 Nov 2022	9:00 AM	SE	0.2	
11 Nov 2022	10:00 AM	SE	0.2	
11 Nov 2022	11:00 AM	ESE	1.1	
11 Nov 2022	12:00 PM	E	0.3	
11 Nov 2022	1:00 PM	E	0.1	
11 Nov 2022	2:00 PM	SSE	0.4	
11 Nov 2022	3:00 PM	E	0.1	
11 Nov 2022	4:00 PM	ENE	0.1	
11 Nov 2022	5:00 PM	ENE	0.1	
11 Nov 2022	6:00 PM	ESE	0.1	
11 Nov 2022	7:00 PM	E	0.1	
11 Nov 2022	8:00 PM	E	0.1	
11 Nov 2022	9:00 PM	ENE	0.1	
11 Nov 2022	10:00 PM	ENE	0.1	
11 Nov 2022	11:00 PM	ENE	0.1	
12 Nov 2022	12:00 AM	ENE	0.1	
12 Nov 2022	1:00 AM	NNE	0.1	
12 Nov 2022	2:00 AM	NNE	0.1	
12 Nov 2022	3:00 AM	ENE	0.1	
12 Nov 2022	4:00 AM	ENE	0.1	
12 Nov 2022	5:00 AM	NNE	0.1	
12 Nov 2022	6:00 AM	NE	0.1	
12 Nov 2022	7:00 AM	NE	0.1	
12 Nov 2022	8:00 AM	NE	0.1	
12 Nov 2022	9:00 AM	E	0.3	
12 Nov 2022	10:00 AM	N	0.2	
12 Nov 2022	11:00 AM	NNW	0.6	

November 2022					
	Table II: Wind Speed and Directions				
Date	Time	Direction	Wind Speed m ^{-s}		
12 Nov 2022	12:00 PM	NE	0.1		
12 Nov 2022	1:00 PM	NE	0.2		
12 Nov 2022	2:00 PM	ENE	0.3		
12 Nov 2022	3:00 PM	ENE	0.1		
12 Nov 2022	4:00 PM	E	0.2		
12 Nov 2022	5:00 PM	Ē	0.1		
12 Nov 2022	6:00 PM	Е	0.1		
12 Nov 2022	7:00 PM	Е	0.1		
12 Nov 2022	8:00 PM	ENE	0.1		
12 Nov 2022	9:00 PM	ENE	0.1		
12 Nov 2022	10:00 PM	ENE	0.3		
12 Nov 2022	11:00 PM	SE	0.1		
13 Nov 2022	12:00 AM	SE	1.2		
13 Nov 2022	1:00 AM	S	0.1		
13 Nov 2022	2:00 AM	ENE	0.2		
13 Nov 2022	3:00 AM	ENE	0.4		
13 Nov 2022	4:00 AM	N	0.4		
13 Nov 2022	5:00 AM	Е	0.1		
13 Nov 2022	6:00 AM	E	0.1		
13 Nov 2022	7:00 AM	SE	0.1		
13 Nov 2022	8:00 AM	SE	0.8		
13 Nov 2022	9:00 AM	SE	0.2		
13 Nov 2022	10:00 AM	ESE	0.1		
13 Nov 2022	11:00 AM	E	0.2		
13 Nov 2022	12:00 PM	Ē	0.1		
13 Nov 2022	1:00 PM	SSE	0.6		
13 Nov 2022	2:00 PM	E	0.2		
13 Nov 2022	3:00 PM	ENE	0.2		
13 Nov 2022	4:00 PM	ENE	0.1		
13 Nov 2022	5:00 PM	ESE	0.1		
13 Nov 2022	6:00 PM	ESE	0.1		
13 Nov 2022	7:00 PM	E	0.1		
13 Nov 2022	8:00 PM	E	0.1		
13 Nov 2022	9:00 PM	SE	0.1		
13 Nov 2022	10:00 PM	ESE	0.1		
13 Nov 2022	11:00 PM	E	0.1		
14 Nov 2022	12:00 AM	E	0.1		
14 Nov 2022	1:00 AM	E	0.1		
14 Nov 2022	2:00 AM	NNE	0.1		
14 Nov 2022	3:00 AM	ENE	0.1		
14 Nov 2022	4:00 AM	E	0.1		
14 Nov 2022	5:00 AM	ENE	0.1		
14 Nov 2022	6:00 AM	NE	0.1		
14 Nov 2022	7:00 AM	ENE	0.1		
14 Nov 2022	8:00 AM	E	0.1		
14 Nov 2022	9:00 AM	SE	0.1		

November 2022					
	Table II: Wind Speed and Directions				
Date	Time	Direction	Wind Speed m ^{-s}		
14 Nov 2022	10:00 AM	SE	0.8		
14 Nov 2022	11:00 AM	SE	0.2		
14 Nov 2022	12:00 PM	ESE	0.1		
14 Nov 2022	1:00 PM	Е	0.1		
14 Nov 2022	2:00 PM	Е	0.3		
14 Nov 2022	3:00 PM	SSE	0.1		
14 Nov 2022	4:00 PM	Е	0.1		
14 Nov 2022	5:00 PM	ENE	0.1		
14 Nov 2022	6:00 PM	ENE	0.4		
14 Nov 2022	7:00 PM	NNE	0.8		
14 Nov 2022	8:00 PM	NE	0.1		
14 Nov 2022	9:00 PM	NNE	0.1		
14 Nov 2022	10:00 PM	NNE	0.1		
14 Nov 2022	11:00 PM	ENE	0.2		
15 Nov 2022	12:00 AM	NNE	0.1		
15 Nov 2022	1:00 AM	#N/A	0.1		
15 Nov 2022	2:00 AM	SE	0.1		
15 Nov 2022	3:00 AM	ENE	0.1		
15 Nov 2022	4:00 AM	NE	0.3		
15 Nov 2022	5:00 AM	NE	0.1		
15 Nov 2022	6:00 AM	NE	1.2		
15 Nov 2022	7:00 AM	NE	0.1		
15 Nov 2022	8:00 AM	ENE	0.2		
15 Nov 2022	9:00 AM	NE	0.4		
15 Nov 2022	10:00 AM	NE	0.4		
15 Nov 2022	11:00 AM	Е	0.1		
15 Nov 2022	12:00 PM	Е	0.1		
15 Nov 2022	1:00 PM	SE	0.1		
15 Nov 2022	2:00 PM	Е	0.8		
15 Nov 2022	3:00 PM	Е	0.2		
15 Nov 2022	4:00 PM	E	0.2		
15 Nov 2022	5:00 PM	ESE	0.1		
15 Nov 2022	6:00 PM	SSE	0.1		
15 Nov 2022	7:00 PM	Е	0.1		
15 Nov 2022	8:00 PM	E	0.1		
15 Nov 2022	9:00 PM	ENE	0.1		
15 Nov 2022	10:00 PM	ENE	0.1		
15 Nov 2022	11:00 PM	SE	0.1		
16 Nov 2022	12:00 AM	SE	0.1		
16 Nov 2022	1:00 AM	SE	0.1		
16 Nov 2022	2:00 AM	ESE	0.1		
16 Nov 2022	3:00 AM	E	0.1		
16 Nov 2022	4:00 AM	E	0.1		
16 Nov 2022	5:00 AM	SSE	0.1		
16 Nov 2022	6:00 AM	E	0.1		
16 Nov 2022	7:00 AM	ENE	0.1		

November 2022					
	Table II: Wind Speed and Directions				
Date	Time	Direction	Wind Speed m ^{-s}		
16 Nov 2022	8:00 AM	ENE	0.1		
16 Nov 2022	9:00 AM	NNE	0.2		
16 Nov 2022	10:00 AM	ENE	0.1		
16 Nov 2022	11:00 AM	ESE	0.1		
16 Nov 2022	12:00 PM	ENE	0.1		
16 Nov 2022	1:00 PM	ESE	0.1		
16 Nov 2022	2:00 PM	SSW	0.2		
16 Nov 2022	3:00 PM	W	0.1		
16 Nov 2022	4:00 PM	W	0.1		
16 Nov 2022	5:00 PM	E	0.1		
16 Nov 2022	6:00 PM	SE	0.2		
16 Nov 2022	7:00 PM	SSE	0.6		
16 Nov 2022	8:00 PM	ESE	0.1		
16 Nov 2022	9:00 PM	SW	0.1		
16 Nov 2022	10:00 PM	SE	0.2		
16 Nov 2022	11:00 PM	NNE	0.1		
17 Nov 2022	12:00 AM	SE	0.1		
17 Nov 2022	1:00 AM	NE	0.1		
17 Nov 2022	2:00 AM	E	0.1		
17 Nov 2022	3:00 AM	SE	0.1		
17 Nov 2022	4:00 AM	ENE	0.2		
17 Nov 2022	5:00 AM	ENE	0.1		
17 Nov 2022	6:00 AM	E	0.3		
17 Nov 2022	7:00 AM	E	0.1		
17 Nov 2022	8:00 AM	SE	1.2		
17 Nov 2022	9:00 AM	E	0.1		
17 Nov 2022	10:00 AM	E	0.2		
17 Nov 2022	11:00 AM	E	0.4		
17 Nov 2022	12:00 PM	ENE	0.4		
17 Nov 2022	1:00 PM	SE	0.1		
17 Nov 2022	2:00 PM	ENE	0.1		
17 Nov 2022	3:00 PM	ESE	0.1		
17 Nov 2022	4:00 PM	SE	0.8		
17 Nov 2022	5:00 PM	SE	0.2		
17 Nov 2022	6:00 PM	SE	0.1		
17 Nov 2022	7:00 PM	ESE	0.1		
17 Nov 2022	8:00 PM	E	0.1		
17 Nov 2022	9:00 PM	E	0.1		
17 Nov 2022	10:00 PM	SSE	0.1		
17 Nov 2022	11:00 PM	E	0.3		
18 Nov 2022	12:00 AM	ENE	0.1		
18 Nov 2022	1:00 AM	ENE	0.1		
18 Nov 2022	2:00 AM	ENE	0.2		
18 Nov 2022	3:00 AM	SE	0.2		
18 Nov 2022	4:00 AM	E	0.2		
18 Nov 2022	5:00 AM	E	0.1		

November 2022					
	Table II: Wind Speed and Directions				
Date	Time	Direction	Wind Speed m ^{-s}		
18 Nov 2022	6:00 AM	Е	0.1		
18 Nov 2022	7:00 AM	ENE	0.1		
18 Nov 2022	8:00 AM	Е	0.1		
18 Nov 2022	9:00 AM	Е	0.4		
18 Nov 2022	10:00 AM	Е	0.1		
18 Nov 2022	11:00 AM	ENE	0.1		
18 Nov 2022	12:00 PM	SSE	0.4		
18 Nov 2022	1:00 PM	SSW	0.6		
18 Nov 2022	2:00 PM	ESE	0.1		
18 Nov 2022	3:00 PM	SSE	0.3		
18 Nov 2022	4:00 PM	NE	0.1		
18 Nov 2022	5:00 PM	SE	0.1		
18 Nov 2022	6:00 PM	ENE	0.1		
18 Nov 2022	7:00 PM	Е	0.1		
18 Nov 2022	8:00 PM	ENE	0.1		
18 Nov 2022	9:00 PM	NE	0.1		
18 Nov 2022	10:00 PM	ESE	0.1		
18 Nov 2022	11:00 PM	SSE	0.1		
19 Nov 2022	12:00 AM	SE	0.1		
19 Nov 2022	1:00 AM	Е	0.1		
19 Nov 2022	2:00 AM	Е	0.1		
19 Nov 2022	3:00 AM	Е	0.1		
19 Nov 2022	4:00 AM	Е	0.1		
19 Nov 2022	5:00 AM	Е	0.1		
19 Nov 2022	6:00 AM	Е	0.1		
19 Nov 2022	7:00 AM	ESE	0.1		
19 Nov 2022	8:00 AM	ESE	0.1		
19 Nov 2022	9:00 AM	Е	0.1		
19 Nov 2022	10:00 AM	ENE	0.1		
19 Nov 2022	11:00 AM	Е	0.1		
19 Nov 2022	12:00 PM	E	0.1		
19 Nov 2022	1:00 PM	SW	0.1		
19 Nov 2022	2:00 PM	WSW	0.1		
19 Nov 2022	3:00 PM	W	0.1		
19 Nov 2022	4:00 PM	WSW	0.4		
19 Nov 2022	5:00 PM	SE	0.1		
19 Nov 2022	6:00 PM	SE	0.1		
19 Nov 2022	7:00 PM	SE	0.1		
19 Nov 2022	8:00 PM	ESE	0.1		
19 Nov 2022	9:00 PM	E	0.2		
19 Nov 2022	10:00 PM	Е	0.1		
19 Nov 2022	11:00 PM	SSE	0.1		
20 Nov 2022	12:00 AM	E	0.1		
20 Nov 2022	1:00 AM	ENE	0.1		
20 Nov 2022	2:00 AM	ENE	0.1		
20 Nov 2022	3:00 AM	E	0.1		

November 2022					
	Table II: Wind Speed and Directions				
Date	Time	Direction	Wind Speed m ^{-s}		
20 Nov 2022	4:00 AM	ENE	0.1		
20 Nov 2022	5:00 AM	Е	0.1		
20 Nov 2022	6:00 AM	ENE	0.1		
20 Nov 2022	7:00 AM	Е	0.1		
20 Nov 2022	8:00 AM	NNE	0.1		
20 Nov 2022	9:00 AM	NW	0.1		
20 Nov 2022	10:00 AM	WNW	0.2		
20 Nov 2022	11:00 AM	NNE	0.1		
20 Nov 2022	12:00 PM	SE	0.1		
20 Nov 2022	1:00 PM	ENE	0.1		
20 Nov 2022	2:00 PM	ESE	0.2		
20 Nov 2022	3:00 PM	Е	0.1		
20 Nov 2022	4:00 PM	SSW	0.1		
20 Nov 2022	5:00 PM	SE	0.1		
20 Nov 2022	6:00 PM	SE	0.1		
20 Nov 2022	7:00 PM	SE	0.1		
20 Nov 2022	8:00 PM	ESE	0.2		
20 Nov 2022	9:00 PM	Е	0.1		
20 Nov 2022	10:00 PM	Е	0.1		
20 Nov 2022	11:00 PM	SSE	0.1		
21 Nov 2022	12:00 AM	E	0.1		
21 Nov 2022	1:00 AM	ENE	0.1		
21 Nov 2022	2:00 AM	ENE	0.2		
21 Nov 2022	3:00 AM	SSE	0.3		
21 Nov 2022	4:00 AM	SE	0.1		
21 Nov 2022	5:00 AM	ESE	0.1		
21 Nov 2022	6:00 AM	ESE	0.1		
21 Nov 2022	7:00 AM	SE	0.1		
21 Nov 2022	8:00 AM	SE	0.4		
21 Nov 2022	9:00 AM	NNE	0.1		
21 Nov 2022	10:00 AM	ESE	0.1		
21 Nov 2022	11:00 AM	SW	0.1		
21 Nov 2022	12:00 PM	E	0.1		
21 Nov 2022	1:00 PM	E	0.5		
21 Nov 2022	2:00 PM	NE	0.1		
21 Nov 2022	3:00 PM	SSE	0.5		
21 Nov 2022	4:00 PM	S	0.1		
21 Nov 2022	5:00 PM	NE	0.3		
21 Nov 2022	6:00 PM	ENE	0.1		
21 Nov 2022	7:00 PM	ESE	1.2		
21 Nov 2022	8:00 PM	SE	0.1		
21 Nov 2022	9:00 PM	SE	0.2		
21 Nov 2022	10:00 PM	SE	0.4		
21 Nov 2022	11:00 PM	SE	0.4		
22 Nov 2022	12:00 AM	ESE	0.1		
22 Nov 2022	1:00 AM	E	0.1		

	November 2022				
		speed and Directions			
Date	Time	Direction	Wind Speed m ^{-s}		
22 Nov 2022	2:00 AM	Е	0.1		
22 Nov 2022	3:00 AM	SSE	0.8		
22 Nov 2022	4:00 AM	Е	0.2		
22 Nov 2022	5:00 AM	ENE	0.1		
22 Nov 2022	6:00 AM	ENE	0.1		
22 Nov 2022	7:00 AM	ESE	0.1		
22 Nov 2022	8:00 AM	Е	0.1		
22 Nov 2022	9:00 AM	ESE	0.1		
22 Nov 2022	10:00 AM	SE	0.1		
22 Nov 2022	11:00 AM	ENE	0.1		
22 Nov 2022	12:00 PM	ESE	0.1		
22 Nov 2022	1:00 PM	NNW	0.1		
22 Nov 2022	2:00 PM	ENE	0.1		
22 Nov 2022	3:00 PM	Е	0.1		
22 Nov 2022	4:00 PM	ENE	0.1		
22 Nov 2022	5:00 PM	Е	0.1		
22 Nov 2022	6:00 PM	ENE	0.1		
22 Nov 2022	7:00 PM	ENE	0.1		
22 Nov 2022	8:00 PM	Е	0.1		
22 Nov 2022	9:00 PM	ENE	0.1		
22 Nov 2022	10:00 PM	Е	0.1		
22 Nov 2022	11:00 PM	ENE	0.1		
23 Nov 2022	12:00 AM	ENE	0.1		
23 Nov 2022	1:00 AM	SE	0.1		
23 Nov 2022	2:00 AM	Е	0.1		
23 Nov 2022	3:00 AM	ENE	0.1		
23 Nov 2022	4:00 AM	E	0.1		
23 Nov 2022	5:00 AM	E	0.1		
23 Nov 2022	6:00 AM	ESE	0.1		
23 Nov 2022	7:00 AM	E	0.2		
23 Nov 2022	8:00 AM	SE	0.1		
23 Nov 2022	9:00 AM	ENE	0.1		
23 Nov 2022	10:00 AM	SE	0.1		
23 Nov 2022	11:00 AM	SE	0.1		
23 Nov 2022	12:00 PM	SE	0.1		
23 Nov 2022	1:00 PM	ESE	0.1		
23 Nov 2022	2:00 PM	E	0.1		
23 Nov 2022	3:00 PM	Е	0.1		
23 Nov 2022	4:00 PM	SSE	0.1		
23 Nov 2022	5:00 PM	E	0.1		
23 Nov 2022	6:00 PM	ENE	0.1		
23 Nov 2022	7:00 PM	ENE	0.1		
23 Nov 2022	8:00 PM	E	0.1		
23 Nov 2022	9:00 PM	ENE	0.1		
23 Nov 2022	10:00 PM	ENE	0.1		
23 Nov 2022	11:00 PM	NE	0.1		

November 2022					
Table II: Wind Speed and Directions					
Date	Time	Direction	Wind Speed m ^{-s}		
24 Nov 2022	12:00 AM	NNE	0.1		
24 Nov 2022	1:00 AM	ENE	0.1		
24 Nov 2022	2:00 AM	ENE	0.1		
24 Nov 2022	3:00 AM	ENE	0.1		
24 Nov 2022	4:00 AM	Е	0.3		
24 Nov 2022	5:00 AM	ENE	0.1		
24 Nov 2022	6:00 AM	NNW	0.1		
24 Nov 2022	7:00 AM	NNE	0.1		
24 Nov 2022	8:00 AM	WSW	0.1		
24 Nov 2022	9:00 AM	SE	0.1		
24 Nov 2022	10:00 AM	ENE	0.1		
24 Nov 2022	11:00 AM	NNE	0.1		
24 Nov 2022	12:00 PM	ENE	0.1		
24 Nov 2022	1:00 PM	ENE	0.1		
24 Nov 2022	2:00 PM	ENE	0.1		
24 Nov 2022	3:00 PM	E	0.8		
24 Nov 2022	4:00 PM	E	0.1		
24 Nov 2022	5:00 PM	E	0.3		
24 Nov 2022	6:00 PM	SSE	0.1		
24 Nov 2022	7:00 PM	E	1.2		
24 Nov 2022	8:00 PM	ENE	0.1		
24 Nov 2022	9:00 PM	E	0.2		
24 Nov 2022	10:00 PM	SE	0.4		
24 Nov 2022	11:00 PM	SE	0.4		
25 Nov 2022	12:00 AM	SE	0.1		
25 Nov 2022	1:00 AM	SE	0.1		
25 Nov 2022	2:00 AM	ESE	0.1		
25 Nov 2022	3:00 AM	E	0.8		
25 Nov 2022	4:00 AM	E	0.2		
25 Nov 2022	5:00 AM	SSE	0.1		
25 Nov 2022	6:00 AM	E	0.1		
25 Nov 2022	7:00 AM	ENE	0.1		
25 Nov 2022	8:00 AM	ENE	0.1		
25 Nov 2022	9:00 AM	S	0.1		
25 Nov 2022	10:00 AM	NE	0.6		
25 Nov 2022	11:00 AM	NE	0.1		
25 Nov 2022	12:00 PM	E	0.4		
25 Nov 2022	1:00 PM	E	0.1		
25 Nov 2022	2:00 PM	ENE	0.1		
25 Nov 2022	3:00 PM	SSE	0.1		
25 Nov 2022	4:00 PM	ENE	0.1		
25 Nov 2022	5:00 PM	E	0.1		
25 Nov 2022	6:00 PM	ESE	0.1		
25 Nov 2022	7:00 PM	E	0.1		
25 Nov 2022	8:00 PM	SE	0.1		
25 Nov 2022	9:00 PM	ESE	0.1		

	November 2022				
	Table II: Wind S	Speed and Directions			
Date	Time	Direction	Wind Speed m ^{-s}		
25 Nov 2022	10:00 PM	SE	0.1		
25 Nov 2022	11:00 PM	SE	0.1		
26 Nov 2022	12:00 AM	SE	0.1		
26 Nov 2022	1:00 AM	Е	0.1		
26 Nov 2022	2:00 AM	SE	0.1		
26 Nov 2022	3:00 AM	SE	0.1		
26 Nov 2022	4:00 AM	SE	0.1		
26 Nov 2022	5:00 AM	ESE	0.1		
26 Nov 2022	6:00 AM	Е	0.1		
26 Nov 2022	7:00 AM	Е	0.1		
26 Nov 2022	8:00 AM	SSE	0.1		
26 Nov 2022	9:00 AM	Е	0.3		
26 Nov 2022	10:00 AM	ENE	0.4		
26 Nov 2022	11:00 AM	ENE	0.1		
26 Nov 2022	12:00 PM	NE	0.1		
26 Nov 2022	1:00 PM	ENE	0.2		
26 Nov 2022	2:00 PM	NW	0.1		
26 Nov 2022	3:00 PM	SE	0.3		
26 Nov 2022	4:00 PM	ENE	0.1		
26 Nov 2022	5:00 PM	Е	1.2		
26 Nov 2022	6:00 PM	Е	0.1		
26 Nov 2022	7:00 PM	ENE	0.2		
26 Nov 2022	8:00 PM	SE	0.4		
26 Nov 2022	9:00 PM	ENE	0.4		
26 Nov 2022	10:00 PM	ENE	0.1		
26 Nov 2022	11:00 PM	Е	0.1		
27 Nov 2022	12:00 AM	Е	0.1		
27 Nov 2022	1:00 AM	ENE	0.8		
27 Nov 2022	2:00 AM	NE	0.2		
27 Nov 2022	3:00 AM	ENE	0.2		
27 Nov 2022	4:00 AM	Е	0.1		
27 Nov 2022	5:00 AM	Е	0.2		
27 Nov 2022	6:00 AM	NNE	1.6		
27 Nov 2022	7:00 AM	WNW	0.1		
27 Nov 2022	8:00 AM	ENE	0.1		
27 Nov 2022	9:00 AM	NNE	0.1		
27 Nov 2022	10:00 AM	ENE	0.1		
27 Nov 2022	11:00 AM	NNE	0.1		
27 Nov 2022	12:00 PM	E	0.5		
27 Nov 2022	1:00 PM	ENE	0.2		
27 Nov 2022	2:00 PM	ENE	0.1		
27 Nov 2022	3:00 PM	E	0.1		
27 Nov 2022	4:00 PM	NE	0.1		
27 Nov 2022	5:00 PM	NE	0.1		
27 Nov 2022	6:00 PM	SE	0.1		
27 Nov 2022	7:00 PM	SE	0.1		

	November 2022				
	Table II: Wind S	peed and Directions			
Date	Time	Direction	Wind Speed m ^{-s}		
27 Nov 2022	8:00 PM	SE	0.1		
27 Nov 2022	9:00 PM	ESE	0.2		
27 Nov 2022	10:00 PM	Е	1.1		
27 Nov 2022	11:00 PM	Е	1.9		
28 Nov 2022	12:00 AM	SSE	0.8		
28 Nov 2022	1:00 AM	Е	2.1		
28 Nov 2022	2:00 AM	ENE	0.2		
28 Nov 2022	3:00 AM	ENE	0.2		
28 Nov 2022	4:00 AM	Е	0.1		
28 Nov 2022	5:00 AM	ENE	0.2		
28 Nov 2022	6:00 AM	NE	0.1		
28 Nov 2022	7:00 AM	ENE	0.1		
28 Nov 2022	8:00 AM	ENE	0.1		
28 Nov 2022	9:00 AM	Е	0.4		
28 Nov 2022	10:00 AM	NNE	0.3		
28 Nov 2022	11:00 AM	NE	0.1		
28 Nov 2022	12:00 PM	Ν	0.1		
28 Nov 2022	1:00 PM	NNE	0.1		
28 Nov 2022	2:00 PM	ENE	0.2		
28 Nov 2022	3:00 PM	NE	0.1		
28 Nov 2022	4:00 PM	ENE	0.1		
28 Nov 2022	5:00 PM	NNE	0.1		
28 Nov 2022	6:00 PM	Е	0.1		
28 Nov 2022	7:00 PM	ENE	0.1		
28 Nov 2022	8:00 PM	NNE	0.8		
28 Nov 2022	9:00 PM	NNE	0.2		
28 Nov 2022	10:00 PM	SE	0.1		
28 Nov 2022	11:00 PM	SE	0.1		
29 Nov 2022	12:00 AM	SE	0.2		
29 Nov 2022	1:00 AM	ESE	0.1		
29 Nov 2022	2:00 AM	Е	0.2		
29 Nov 2022	3:00 AM	E	0.1		
29 Nov 2022	4:00 AM	SSE	0.1		
29 Nov 2022	5:00 AM	Е	0.2		
29 Nov 2022	6:00 AM	ENE	0.2		
29 Nov 2022	7:00 AM	ENE	0.1		
29 Nov 2022	8:00 AM	NNE	0.8		
29 Nov 2022	9:00 AM	ENE	2.9		
29 Nov 2022	10:00 AM	ENE	0.3		
29 Nov 2022	11:00 AM	ENE	0.1		
29 Nov 2022	12:00 PM	SE	1.2		
29 Nov 2022	1:00 PM	Е	0.1		
29 Nov 2022	2:00 PM	NE	0.2		
29 Nov 2022	3:00 PM	NE	0.4		
29 Nov 2022	4:00 PM	Е	0.4		
29 Nov 2022	5:00 PM	ESE	0.1		

	November 2022				
	Table II: Wind	Speed and Directions			
Date	Time	Direction	Wind Speed m ^{-s}		
29 Nov 2022	6:00 PM	ENE	0.1		
29 Nov 2022	7:00 PM	Е	0.1		
29 Nov 2022	8:00 PM	NNE	0.8		
29 Nov 2022	9:00 PM	NE	0.2		
29 Nov 2022	10:00 PM	E	0.1		
29 Nov 2022	11:00 PM	E	0.1		
30 Nov 2022	12:00 AM	NE	0.1		
30 Nov 2022	1:00 AM	NNE	0.1		
30 Nov 2022	2:00 AM	NE	1.4		
30 Nov 2022	3:00 AM	NNW	4.2		
30 Nov 2022	4:00 AM	NNE	0.2		
30 Nov 2022	5:00 AM	NNE	0.9		
30 Nov 2022	6:00 AM	ENE	0.2		
30 Nov 2022	7:00 AM	E	0.8		
30 Nov 2022	8:00 AM	NNE	0.1		
30 Nov 2022	9:00 AM	ENE	2.0		
30 Nov 2022	10:00 AM	SSE	0.3		
30 Nov 2022	11:00 AM	NE	0.3		
30 Nov 2022	12:00 PM	NNW	0.1		
30 Nov 2022	1:00 PM	ENE	1.2		
30 Nov 2022	2:00 PM	SE	0.1		
30 Nov 2022	3:00 PM	SE	0.2		
30 Nov 2022	4:00 PM	SE	0.4		
30 Nov 2022	5:00 PM	ESE	0.4		
30 Nov 2022	6:00 PM	Е	0.1		
30 Nov 2022	7:00 PM	E	0.1		
30 Nov 2022	8:00 PM	SSE	0.1		
30 Nov 2022	9:00 PM	Е	0.8		
30 Nov 2022	10:00 PM	ENE	0.2		
30 Nov 2022	11:00 PM	ENE	0.2		

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

Agreement No. CE/59/2015 (EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction Impact Air Quality and Noise Monitoring Schedule (November 2022)

Course din an	Mandan	Turnelau	W/- d d	Thursday	Paidan	Saturday	
Sunday	Monday	Tuesday 1-Nov	Wednesday 2-Nov	Thursday 3-Nov	Friday 4-Nov	Saturday	5-Nov
			24 hr TSP	1 hr TSP X3 [AM1, AM2, AM3] [AM4,AM5(A), AM6(A)] Noise [Daytime (07:00-19:00)] [CM1, CM2, CM3, CM4, CM5] [CM6(A), CM7(A), CM8(A))] Noise [Evening time (19:00-23:00)] [CM6(A)]	Noise [Evening time (19:00-23:00)] [CM1, CM2, CM3] Noise [Night-time (23:00-07:00)] [CM1, CM2, CM3]		5-100
6-Nov	7-Nov	8-Nov	9-Nov	10-Nov	11-Nov		12-Nov
			1 hr TSP X3 [AM1, AM2, AM3] [AM4,AM5(A), AM6(A)] Noise [Daytime (07:00-19:00)] [CM1, CM2, CM3, CM4, CM5] [CM6(A), CM7(A), CM8(A))] Noise [Evening time (19:00-23:00)]		Noise [Evening time (19:00-23:00)] [CM1, CM2, CM3] Noise [Night-time (23:00-07:00)] [CM1, CM2, CM3]		
		24 hr TSP	[CM6(A)]				
13-Nov	14-Nov	15-Nov	16-Nov	17-Nov	18-Nov		19-Nov
	24 hr TSP	1 hr TSP X3 [AM1, AM2, AM3] [AM4,AM5(A), AM6(A)] Noise [Daytime (07:00-19:00)] [CM1, CM2, CM3, CM4, CM5] [CM6(A), CM7(A), CM8(A))] Noise [Evening time (19:00-23:00)] [CM6(A)]			Noise [Evening time (19:00-23:00)] [CM1, CM2, CM3] Noise [Night-time (23:00-07:00)] [CM1, CM2, CM3]	24 hr TSP	
20-Nov	21-Nov	22-Nov	23-Nov	24-Nov	25-Nov		26-Nov
	1 hr TSP X3 [AM1, AM2, AM3] [AM4, AM5(A), AM6(A)] Noise [Daytime (07:00-19:00)] [CM1, CM2, CM3, CM4, CM5] [CM6(A), CM7(A), CM8(A))] Noise [Evening time (19:00-23:00)] [CM6(A)]			24 hr TSP	1 hr TSP X3 [AM1, AM2, AM3] [AM4,AM5(A), AM6(A)] Noise [Evening time (19:00-23:00)] [CM1, CM2, CM3] Noise [Night-time (23:00-07:00)] [CM1, CM2, CM3]		
27-Nov	28-Nov	29-Nov	30-Nov				
			24 hr TSP				

Air Quality Monitoring Station

AM1 - Tin Hau Temple AM2 - Sai Tso Wan Recreation Ground AM3 - Yau Lai Estate Bik Lai House AM4⁽¹⁾ - Sitting-out Area at Cha Kwo Ling Village AM4(B)⁽²⁾ - Fiat 103 Cha Kwo Ling Village AM5(A) - Tseung Kwan O DSD Desilting Compound AM6(A) - Park Central, L1/F Open Space Area

Noise Monitoring Station

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong

CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong

CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong

CM4 - Tin Hau Temple, Cha Kwo Ling

CM5 - CCC Kei Faat Primary School, Yau Tong

CM6(A) - Site Boundary of Contract No. NE/2015/02 near Tower 1, Ocean Shores

CM7(A) - Site Boundary of Contract No. NE/2015/02 near Tower 7, Ocean Shores

CM8(A) - Park Central, L1/F Open Space Area

Agreement No. CE/59/2015 (EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction Tentative Impact Water Quality Monitoring Schedule (November 2022)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Nov	2-Nov	3-Nov	4-Nov	5-Nov
			Mid-Ebb 8:00 Mid-Flood		Mid-Ebb 9:06 Mid-Flood 16:39	
6-Nov	7-Nov	8-Nov	9-Nov	10-Nov	11-Nov	12-Nov
0-1107	1-1100	0-1107	3-1107	10-1107	11-1100	12-1404
	Mid-Ebb 11:27 Mid-Flood 16:30		Mid-Ebb 12:43 Mid-Flood 8:00		Mid-Ebb 13:36 Mid-Flood 8:28	
13-Nov	14-Nov	15-Nov	16-Nov	17-Nov	18-Nov	19-Nov
	Mid-Ebb Mid-Flood 15:09		Mid-Ebb Mid-Flood 16:30		Mid-Ebb 8:00 Mid-Flood 15:22	
20-Nov	21-Nov	22-Nov	23-Nov	24-Nov	25-Nov	26-Nov
	Mid-Ebb 10:14 Mid-Flood 16:20		Mid-Ebb 11:45 Mid-Flood 16:30		Mid-Ebb 13:10 Mid-Flood 8:00	
27-Nov	28-Nov	29-Nov	30-Nov			
	Mid-Ebb 15:18 Mid-Flood 10:40		Mid-Ebb Mid-Flood 16:30			

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

Monitoring Station:

C1, C2, G1, G2, G3, G4, M1, M2, M3, M4, M5, M6

APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Location AM1 -	Location AM1 - Tin Hau Temple				
Date	Time	Weather	Particulate Concentration (µg/m ³)		
3-Nov-22	9:00	Rainy	97.5		
3-Nov-22	10:00	Rainy	90.0		
3-Nov-22	11:00	Rainy	85.0		
9-Nov-22	13:00	Sunny	125.0		
9-Nov-22	14:00	Sunny	120.0		
9-Nov-22	15:00	Sunny	132.5		
15-Nov-22	9:00	Fine	157.5		
15-Nov-22	10:00	Fine	150.0		
15-Nov-22	11:00	Fine	167.5		
21-Nov-22	13:30	Rainy	69.3		
21-Nov-22	14:30	Rainy	77.7		
21-Nov-22	15:30	Rainy	84.0		
25-Nov-22	13:00	Cloudy	185.0		
25-Nov-22	14:00	Cloudy	192.5		
25-Nov-22	15:00	Cloudy	197.5		
		Average	128.7		
		Maximum	197.5		
		Minimum	69.3		

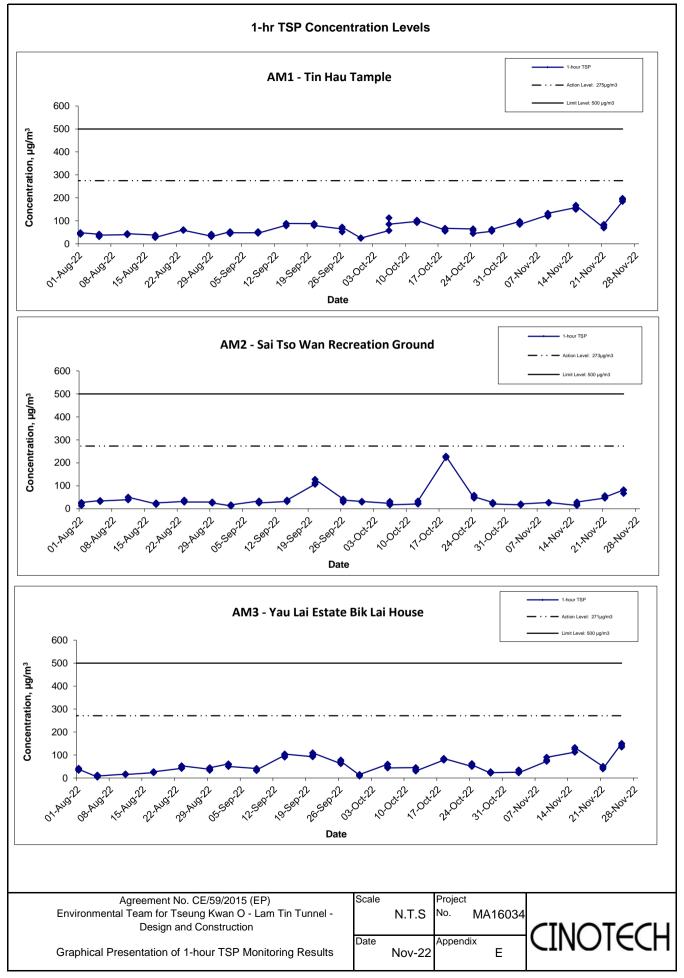
Location AM2 - Sai Tso Wan Recreation Ground				
Date	Time	Weather	Particulate Concentration (μg/m ³)	
3-Nov-22	16:00	Rainy	16.8	
3-Nov-22	17:00	Rainy	16.8	
3-Nov-22	18:00	Rainy	21.0	
9-Nov-22	9:48	Sunny	27.3	
9-Nov-22	10:48	Sunny	25.2	
9-Nov-22	11:48	Sunny	27.3	
15-Nov-22	10:00	Cloudy	14.7	
15-Nov-22	11:00	Cloudy	21.0	
15-Nov-22	12:00	Cloudy	29.4	
21-Nov-22	9:50	Cloudy	46.2	
21-Nov-22	10:50	Cloudy	56.7	
21-Nov-22	11:50	Cloudy	50.4	
25-Nov-22	15:40	Sunny	81.9	
25-Nov-22	16:40	Sunny	67.2	
25-Nov-22	17:40	Sunny	81.9	
		Average	38.9	
		Maximum	81.9	
		Minimum	14.7	

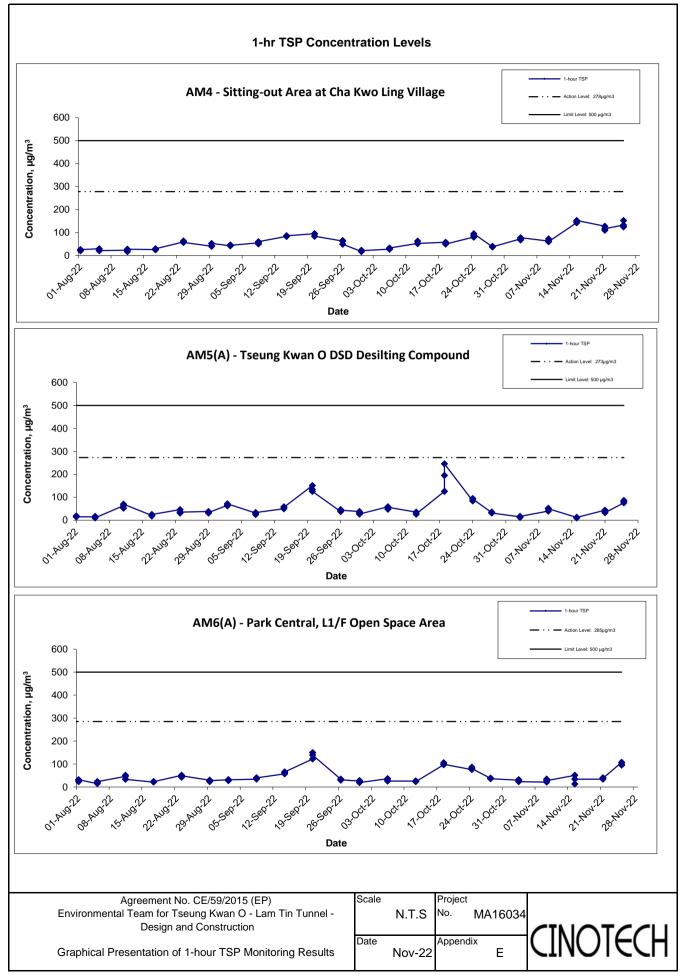
Location AM3 -	Location AM3 - Yau Lai Estate Bik Lai House					
Date	Time	Weather	Particulate Concentration (µg/m ³)			
3-Nov-22	16:10	Rainy	25.0			
3-Nov-22	17:10	Rainy	35.0			
3-Nov-22	18:10	Rainy	22.5			
9-Nov-22	9:00	Sunny	72.5			
9-Nov-22	10:00	Sunny	77.5			
9-Nov-22	11:00	Sunny	90.0			
15-Nov-22	12:50	Cloudy	112.5			
15-Nov-22	13:50	Cloudy	125.0			
15-Nov-22	14:50	Cloudy	132.5			
21-Nov-22	10:00	Cloudy	50.4			
21-Nov-22	11:00	Cloudy	46.2			
21-Nov-22	12:00	Cloudy	39.9			
25-Nov-22	9:15	Cloudy	150.0			
25-Nov-22	10:15	Cloudy	135.0			
25-Nov-22	11:15	Cloudy	142.5			
		Average	83.8			
		Maximum	150.0			
		Minimum	22.5			

Location AM4 - Sitting-out Area at Cha Kwo Ling Village				
Date	Time	Weather	Particulate Concentration (µg/m ³)	
3-Nov-22	13:00	Rainy	72.5	
3-Nov-22	14:00	Rainy	67.5	
3-Nov-22	15:00	Rainy	77.5	
9-Nov-22	16:10	Sunny	62.5	
9-Nov-22	17:10	Sunny	72.5	
9-Nov-22	18:10	Sunny	60.0	
15-Nov-22	16:15	Cloudy	142.5	
15-Nov-22	17:15	Cloudy	150.0	
15-Nov-22	18:15	Cloudy	152.5	
21-Nov-22	16:00	Rainy	127.6	
21-Nov-22	17:00	Rainy	110.0	
21-Nov-22	18:00	Rainy	116.6	
25-Nov-22	16:10	Cloudy	132.5	
25-Nov-22	17:10	Cloudy	125.0	
25-Nov-22	18:10	Cloudy	152.5	
		Average	108.1	
		Maximum	152.5	
		Minimum	60.0	

Location AM5(A	Location AM5(A) - Tseung Kwan O DSD Desilting Compound				
Date	Time	Weather	Particulate Concentration (µg/m ³)		
3-Nov-22	13:30	Rainy	14.7		
3-Nov-22	14:30	Rainy	12.6		
3-Nov-22	15:30	Rainy	16.8		
9-Nov-22	16:15	Sunny	39.9		
9-Nov-22	17:15	Sunny	52.5		
9-Nov-22	18:15	Sunny	50.4		
15-Nov-22	13:00	Cloudy	12.6		
15-Nov-22	14:00	Cloudy	10.5		
15-Nov-22	15:00	Cloudy	12.6		
21-Nov-22	11:00	Cloudy	44.0		
21-Nov-22	12:00	Cloudy	39.6		
21-Nov-22	13:00	Cloudy	33.0		
25-Nov-22	12:20	Cloudy	75.6		
25-Nov-22	13:20	Cloudy	81.9		
25-Nov-22	14:20	Cloudy	86.1		
		Average	38.9		
		Maximum	86.1		
		Minimum	10.5		

Location AM6(A) - Park Cen	tral, L1/F Open Sp	pace Area
Date	Time	Weather	Particulate Concentration (µg/m ³)
3-Nov-22	9:30	Rainy	29.4
3-Nov-22	10:30	Rainy	31.5
3-Nov-22	11:30	Rainy	23.1
9-Nov-22	13:00	Sunny	21.0
9-Nov-22	14:00	Sunny	33.6
9-Nov-22	15:00	Sunny	27.3
15-Nov-22	16:05	Cloudy	50.4
15-Nov-22	17:05	Cloudy	12.6
15-Nov-22	18:05	Cloudy	33.6
21-Nov-22	16:00	Cloudy	33.6
21-Nov-22	17:00	Cloudy	39.9
21-Nov-22	18:00	Cloudy	37.8
25-Nov-22	9:00	Cloudy	107.1
25-Nov-22	10:00	Cloudy	94.5
25-Nov-22	11:00	Cloudy	98.7
		Average	44.9
		Maximum	107.1
		Minimum	12.6





APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix F - 24-hour TSP Monitoring Results

Location AM1 - Tin Hau Temple

Start Date	Weather	Filter Weight (g)		Particulate	Elaps	e Time	Sampling	Flow Rat	e (m³/min.)	Av. flow	Total vol	Conc.
Start Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
2-Nov-22	Windy	3.3671	3.4355	0.0684	10961.3	10985.3	24.0	1.23	1.22	1.23	1765.0	38.8
8-Nov-22	Sunny	3.3357	3.4867	0.1510	10985.3	11009.3	24.0	1.23	1.22	1.23	1765.1	85.5
14-Nov-22	Fine	3.3748	3.6510	0.2762	11009.3	11033.3	24.0	1.22	1.22	1.22	1761.4	156.8
19-Nov-22	Cloudy	3.3464	3.6029	0.2565	11033.2	11057.2	24.0	1.22	1.22	1.22	1758.5	145.9
24-Nov-22	Fine	3.3831	3.5950	0.2119	11057.3	11081.3	24.0	1.23	1.23	1.23	1767.0	119.9
30-Nov-22	Cloudy	3.3169	3.4640	0.1471	11081.3	11105.3	24.0	1.23	1.24	1.23	1775.8	82.8
											Min	38.8
											Max	156.8

Average 105.0

Location AM2 - Sai Tso Wan Recreation Ground

Start Date	Weather	Filter Weight (g)		Particulate	Elaps	e Time	Sampling	Sampling Flow Rate (m ³ /min.)			Total vol.	Conc.
Start Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	$(\mu g/m^3)$
2-Nov-22	Windy	3.3715	3.4085	0.0370	32008.6	32032.6	24.0	1.23	1.23	1.23	1766.6	20.9
8-Nov-22	Sunny	3.3824	3.4317	0.0493	32032.6	32056.6	24.0	1.23	1.23	1.23	1767.5	27.9
14-Nov-22	Fine	3.3475	3.4487	0.1012	32056.6	32080.6	24.0	1.23	1.22	1.22	1763.3	57.4
19-Nov-22	Fine	3.3475	3.3859	0.0384	32080.6	32104.6	24.0	1.22	1.22	1.22	1760.7	21.8
24-Nov-22	Cloudy	3.3747	3.4033	0.0286	32104.6	32128.6	24.0	1.23	1.23	1.23	1768.9	16.2
30-Nov-22	Fine	3.3160	3.3333	0.0173	32128.6	32152.6	24.0	1.23	1.24	1.24	1778.9	9.7
											Min	9.7
											Max	57.4
											Average	25.7

Location AM3 - Yau Lai Estate, Bik Lai House

Start Date	Weather	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rat	e (m ³ /min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m³)
2-Nov-22	Windy	3.3716	3.4238	0.0522	6233.7	6257.7	24.0	1.23	1.22	1.23	1764.4	29.6
8-Nov-22	Sunny	3.3829	3.4177	0.0348	6257.7	6281.7	24.0	1.23	1.22	1.23	1765.3	19.7
14-Nov-22	Fine	3.3605	3.4140	0.0535	6281.7	6305.7	24.0	1.22	1.22	1.22	1761.2	30.4
19-Nov-22	Fine	3.3569	3.4011	0.0442	6305.7	6329.7	24.0	1.22	1.22	1.22	1758.6	25.1
24-Nov-22	Cloudy	3.3917	3.4230	0.0313	6329.7	6353.7	24.0	1.23	1.23	1.23	1766.7	17.7
30-Nov-22	Cloudy	3.3997	3.4194	0.0197	6377.7	6401.9	24.2	1.23	1.24	1.23	1790.7	11.0
											Min	11.0
											Max	30.4
											Average	22.3

Location AM4(B) - Flat 103 Cha Kwo Ling Village

Start Date	Weather	Filter Weight (g)		Particulate	Elaps	e Time	Sampling	Flow Rate (m ³ /min.)		Av. flow	Total vol.	Conc.
Start Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
2-Nov-22	Windy	3.3688	3.4790	0.1102	17271.9	17295.9	24.0	1.24	1.24	1.24	1782.8	61.8
8-Nov-22	Sunny	3.3681	3.4954	0.1273	17295.9	17319.9	24.0	1.22	1.21	1.22	1749.7	72.8
14-Nov-22	Fine	3.3664	3.5905	0.2241	17335.1	17359.1	24.0	1.21	1.21	1.21	1746.0	128.3
19-Nov-22	Fine	3.3432	3.6922	0.3490	17359.1	17383.1	24.0	1.21	1.21	1.21	1743.1	200.2
24-Nov-22	Cloudy	3.3725	3.4477	0.0752	17383.1	17407.1	24.0	1.22	1.22	1.22	1750.9	42.9
30-Nov-22	Cloudy	3.3887	3.5383	0.1496	17407.1	17431.1	24.0	1.22	1.23	1.22	1759.6	85.0
											Min	42.9
											Max	200.2
											Average	98.5

Location AM5(A) - Tseung Kwan O DSD Desilting Compound

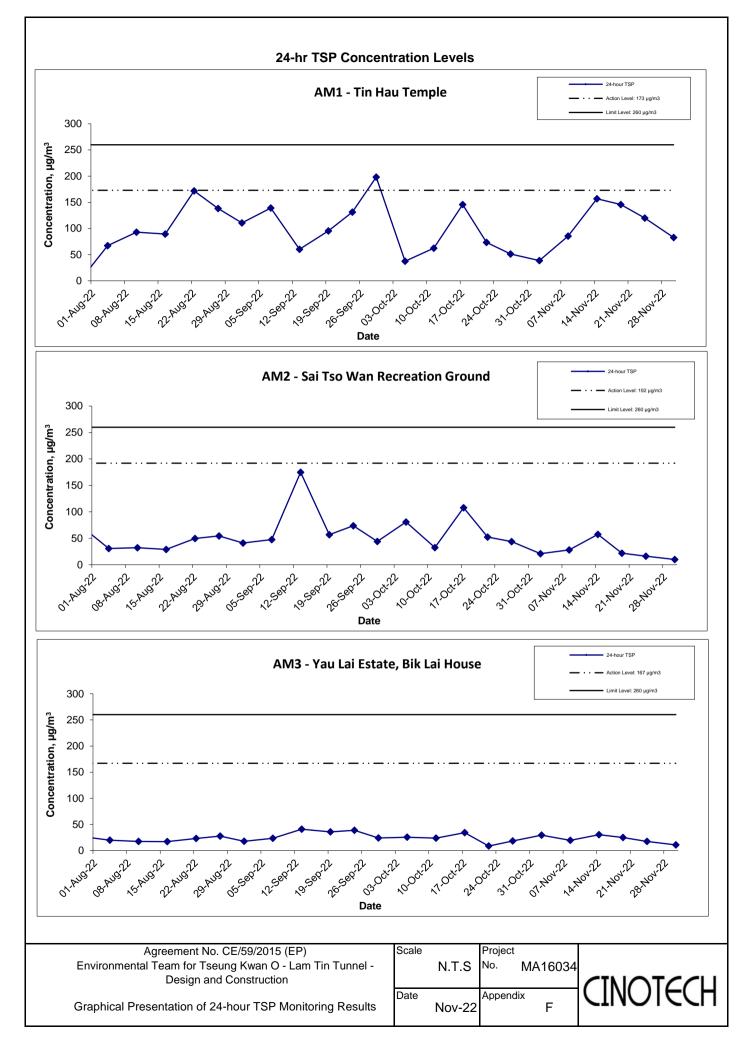
Start Date	Weather	r Filter Weight (g)		Particulate	Elaps	e Time	Sampling	Flow Rate (m ³ /min.)		Av. flow	Total vol.	Conc.
Start Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
2-Nov-22	Windy	3.3369	3.4114	0.0745	33575.1	33599.1	24.0	1.23	1.22	1.22	1763.8	42.2
8-Nov-22	Sunny	3.3596	3.4141	0.0545	33599.1	33623.1	24.0	1.23	1.22	1.23	1764.7	30.9
14-Nov-22	Fine	3.3609	3.4234	0.0625	33623.1	33647.1	24.0	1.22	1.22	1.22	1760.7	35.5
19-Nov-22	Cloudy	3.3668	3.4439	0.0771	33647.1	33671.2	24.0	1.22	1.22	1.22	1758.2	43.9
24-Nov-22	Cloudy	3.3537	3.3725	0.0188	33671.2	33695.2	24.0	1.23	1.23	1.23	1766.0	10.6
30-Nov-22	Fine	3.3992	3.4277	0.0285	33695.2	33719.2	24.0	1.26	1.26	1.26	1812.6	15.7
											Min	10.6
											Max	43.9
												00.0

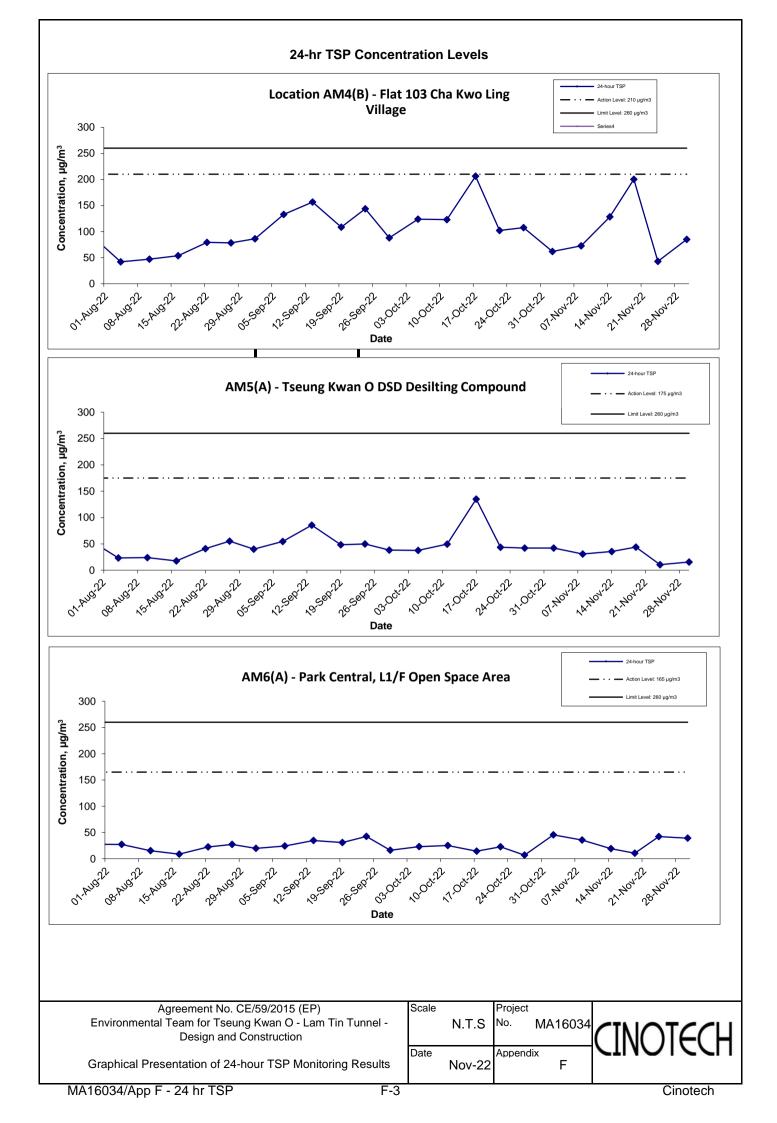
Average 29.8

Location AM6(A) - Park Central, L1/F Open Space Area

Start Date	Weather	Weather Filter Weight (g)		Particulate	Elaps	e Time	Sampling	Flow Rat	e (m ³ /min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
2-Nov-22	Fine	3.3388	3.4202	0.0814	5260.9	5284.9	24.0	1.24	1.24	1.24	1785.1	45.6
8-Nov-22	Cloudy	3.3609	3.4234	0.0625	5284.9	5308.9	24.0	1.22	1.21	1.22	1750.9	35.7
14-Nov-22	Fine	3.3433	3.3765	0.0332	5308.9	5332.9	24.0	1.21	1.21	1.21	1746.9	19.0
19-Nov-22	Cloudy	3.3209	3.3393	0.0184	5532.9	5556.9	24.0	1.21	1.21	1.21	1743.7	10.6
24-Nov-22	Cloudy	3.3491	3.4230	0.0739	5356.9	5380.9	24.0	1.22	1.22	1.22	1752.2	42.2
30-Nov-22	Fine	3.3088	3.3801	0.0713	5380.9	5404.9	24.0	1.26	1.26	1.26	1820.1	39.2
											Min	10.6
											Max	45.6
											Average	32.0

MA16034/App F - 24 hr TSP





APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Location CM1	· Nga Lai Ho	use, Yau Lai	Estate Phase	e 1, Yau Ton	g		
					Unit:	dB (A) (30-min)	
Date	Time	Weather	Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level
Date	Time	weather		_			
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
03-Nov-22	14:53	Drizzle	74.8	78.5	63.1	65.5	74
09-Nov-22	11:36	Sunny	72.6	77.1	67.3	65.5	72
15-Nov-22	11:32	Cloudy	72.0	72.8	69.3	65.5	71
21-Nov-22	10:56	Drizzle	69.2	72.0	66.1	65.5	67

Location CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong

					Unit:	: dB (A) (30-min)	
Date	Time	Weather	Meas	sured Noise	_evel	Baseline Level	Construction Noise Level
Duio	11110	i oution		1			
			∟ _{eq}	L ₁₀	L 90	∟ _{eq}	∟ _{eq}
03-Nov-22	11:20	Drizzle	72.5	74.5	68.5	63.6	72
09-Nov-22	10:55	Sunny	74.3	77.6	68.9	63.6	74
15-Nov-22	10:45	Cloudy	73.3	74.7	71.2	63.6	73
21-Nov-22	10:12	Cloudy	68.7	70.5	66.6	63.6	67

Location CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong

	,		,	U			
					Unit	: dB (A) (30-min)	
Date	Time	Weather	Meas	sured Noise	Level	Baseline Level	Construction Noise Level
Date	TIME	weather					
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}
03-Nov-22	14:06	Drizzle	73.5	75.3	70.7	65.6	73
09-Nov-22	10:10	Sunny	71.7	73.2	69.5	65.6	70
15-Nov-22	9:58	Cloudy	72.7	74.4	70.2	65.6	72
21-Nov-22	13:13	Cloudy	69.8	73.5	63.4	65.6	67.7

Location CM4 - Tin Hau Temple, Cha Kwo Ling

						Unit:	dB (A) (30-min)	
	Date	Time	Weather	Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level
	Date	Time	weather					
				L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}
	03-Nov-22	9:35	Drizzle	72.3	75.4	63.3	62.0	72
ſ	09-Nov-22	14:05	Sunny	63.9	66.4	58.2	62.0	59
ſ	15-Nov-22	13:28	Cloudy	64.5	68.3	57.0	62.0	61
	21-Nov-22	11:23	Drizzle	65.7	69.9	55.6	62.0	63

Location CM5 - CCC Kei Faat Primary School, Yau Tong

			,	0			
					Unit:	dB (A) (30-min)	
Date	Time	Weather	Meas	sured Noise	_evel	Baseline Level	Construction Noise Level
Date	TIME	weather					
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
03-Nov-22	13:24	Drizzle	70.0	72.1	67.4	68.2	65
09-Nov-22	13:19	Sunny	68.3	70.9	64.6	68.2	52
15-Nov-22	9:10	Cloudy	67.8	70.1	64.7	68.2	68 Measured ≦ Baseline
21-Nov-22	10:30	Drizzle	66.2	68.3	62.9	68.2	66 Measured ≦ Baseline

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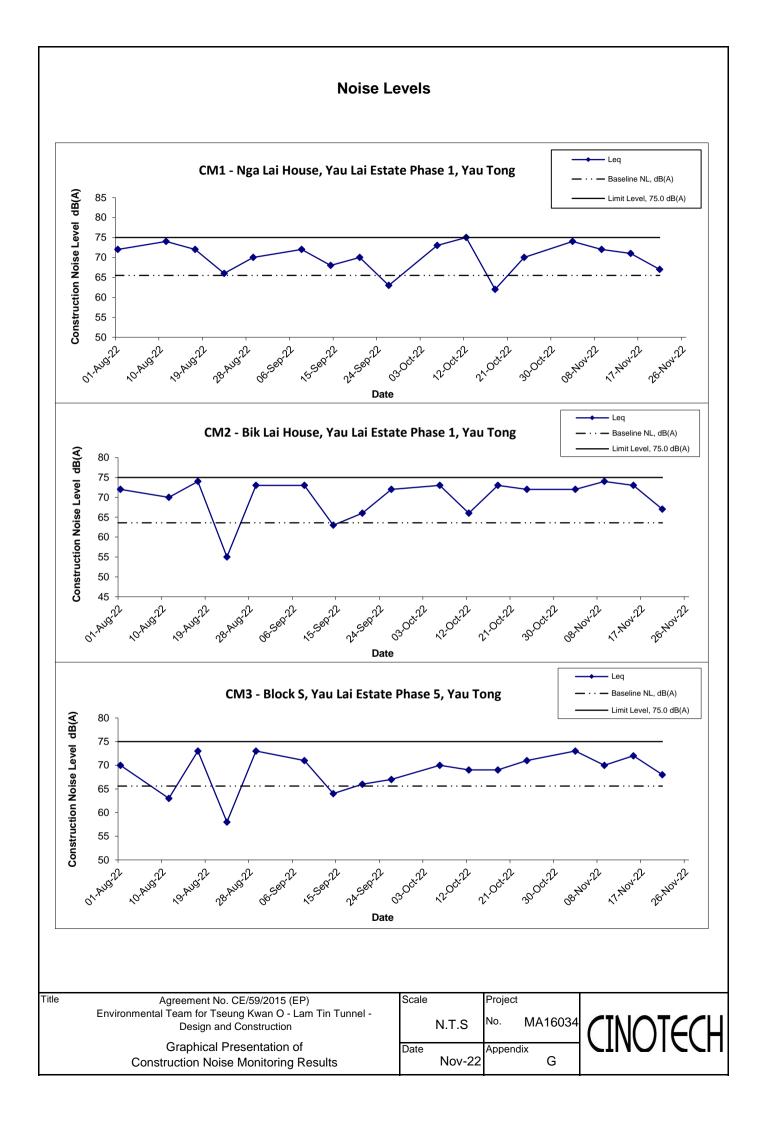
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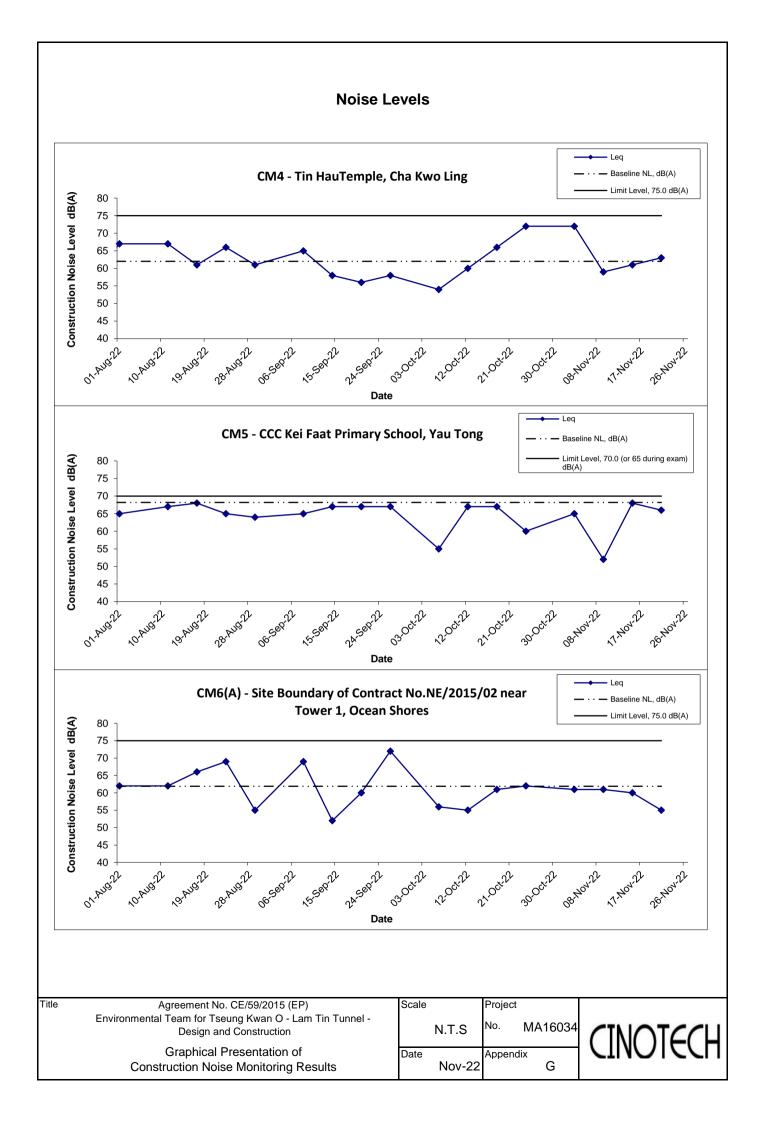
Location CM6(A) - Site Βοι	undary of Con	tract No. NE	/2015/02 ne	ar Tower 1,	Ocean Shores	
					Unit:	dB (A) (30-min)	
Date	Time	Weather	Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level
Duio	Time	Weather	L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
03-Nov-22	14:25	Drizzle	60.7	63.1	55.8	61.9	61 Measured ≦ Baseline
09-Nov-22	16:38	Sunny	60.8	62.5	58.0	61.9	61 Measured ≦ Baseline
15-Nov-22	13:42	Cloudy	59.6	61.8	56.2	61.9	60 Measured \leq Baseline
21-Nov-22	11:45	Fine	54.8	57.7	48.6	61.9	55 Measured \leq Baseline

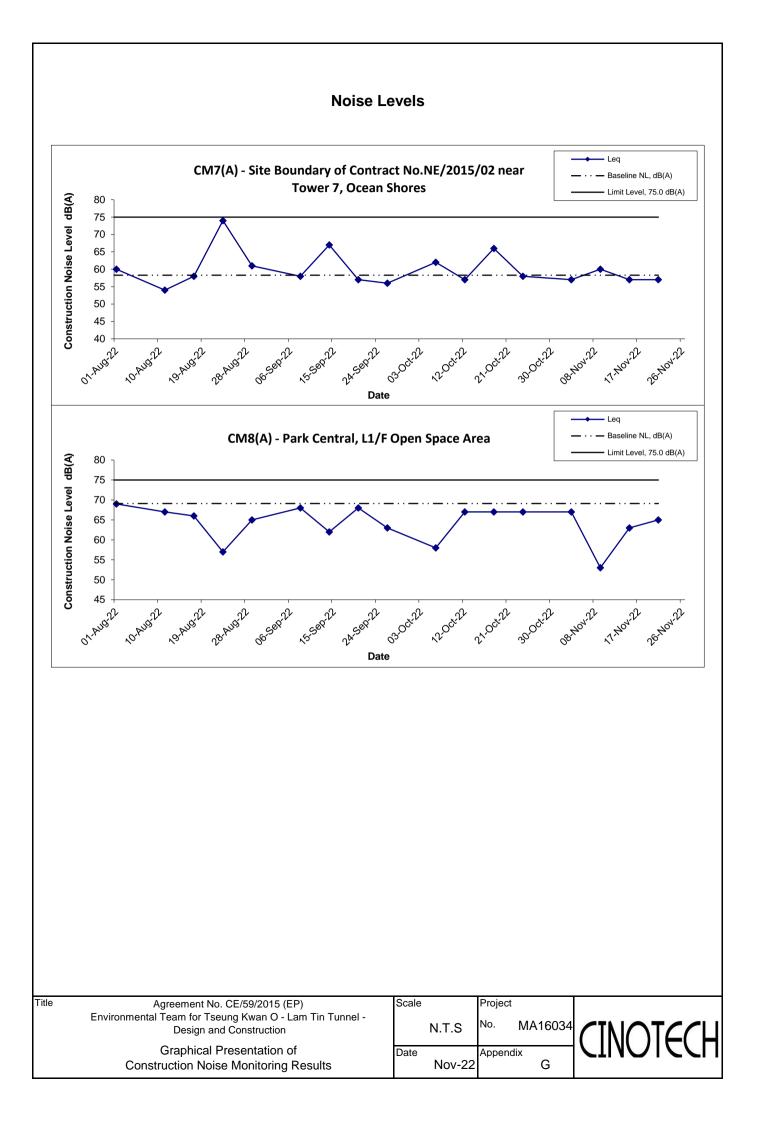
Location CM7(A) - Site Bou	undary of Con	tract No. NE	/2015/02 ne	ar Tower 7,	Ocean Shores	
					Unit:	dB (A) (30-min)	
Date	Time	Weather	Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level
Duto	Time	Weather					
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}
03-Nov-22	13:54	Drizzle	60.6	62.1	58.2	58.3	57
09-Nov-22	16:00	Sunny	62.4	64.5	60.2	58.3	60
15-Nov-22	12:47	Cloudy	57.4	58.8	54.9	58.3	57 Measured ≦ Baseline
21-Nov-22	11:05	Cloudy	57.4	58.7	55.0	58.3	57 Measured ≦ Baseline

Location CM8(A) - Park Central, L1/F Open Space Area

					Unit	: dB (A) (30-min)	
Date	Time	Weather	Meas	sured Noise	Level	Baseline Level	Construction Noise Level
Date	Time	weather			_		
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
03-Nov-22	11:40	Sunny	67.3	70.0	62.3	69.1	67 Measured ≦ Baseline
09-Nov-22	13:16	Sunny	69.2	71.5	65.4	69.1	53
15-Nov-22	15:28	Cloudy	63.1	65.4	59.4	69.1	63 Measured ≦ Baseline
21-Nov-22	13:22	Cloudy	64.9	67.5	60.7	69.1	65 Measured ≦ Baseline







(Restricted Hours - 19:00 to 23:00 on all other days & 07:00 to 23:00 holidays)

	m .	XX 7 1		dB (.	A) (5-min)		Baseline Level	Construction Noise Level
Date	Time	Weather	L eq	L ₁₀	L 90	Average L _{eq}	L _{eq}	L _{eq}
	22:20		51.1	52.0	48.8			
4-Nov-22	22:25	Fine	51.0	51.9	49.1	50.9		51Measured \leq Baseline
	22:30		50.6	52.0	48.8			
	22:25		53.0	54.5	51.1			
11-Nov-22	22:30	Fine	52.3	53.7	50.4	52.7		53Measured \leq Baseline
	22:35		52.9	54.2	51.2		64.4	
	22:30		54.3	54.4	51.0		04:4	
18-Nov-22	22:35	Fine	51.9	53.2	50.0	53.1		53Measured \leq Baseline
	22:40		52.6	53.6	50.3			
	22:10		54.8	56.5	52.6			
25-Nov-22	22:15	Drizzle	55.2	56.3	53.7	54.8		55Measured \leq Baseline
	22:20	1	54.3	55.3	52.7	T I		

Location CM2 -	Bik Lai Hous	e, Yau Lai Est	ate Phase 1, Y	au Tong				
Date	Time	Weather		dB (.	A) (5-min)		Baseline Level	Construction Noise Level
Date	Time	weather	L _{eq}	L ₁₀	L 90	Average L _{eq}	L _{eq}	L _{eq}
	21:50		50.4	51.2	47.8			
4-Nov-22	21:55	Fine	50.6	51.6	48.1	50.2		50Measured \leq Baseline
	22:00		49.6	51.0	47.9			
	21:55		50.1	51.5	48.4			
11-Nov-22	22:00	Fine	50.9	52.4	49.2	50.3		50 Measured \leq Baseline
	22:05		49.8	51.0	48.4		62.2	
	21:55		56.0	56.5	50.5		02.2	
18-Nov-22	22:00	Fine	52.1	54.4	50.3	54.1		54Measured \leq Baseline
	22:05		53.1	55.1	51.1			
	21:40		58.2	59.6	52.4			
25-Nov-22	21:45	Drizzle	55.1	57.1	51.4	56.1		56Measured \leq Baseline
	21:50]	53.5	55.2	50.1	Ī		

Location CM3 -	Block S, Yau	Lai Estate Pha	ise 5, Yau To	ng				
Dete	Time	Weether		dB (.	A) (5-min)		Baseline Level	Construction Noise Level
Date	Time	Weather	L eq	L ₁₀	L 90	Average L _{eq}	L _{eq}	L _{eq}
	21:15		47.6	48.9	45.9			
4-Nov-22	21:20	Fine	47.0	48.5	44.9	47.3		47Measured \leq Baseline
	21:25		47.2	48.7	45.2			
	21:20		45.0	46.5	43.4			
11-Nov-22	21:25	Fine	45.4	46.4	44.1	55.4		55Measured \leq Baseline
	21:30		59.9	62.9	56.8		64.7	
	21:25		57.5	58.3	55.5		04.7	
18-Nov-22	21:30	Fine	58.1	59.3	56.8	58.6		59Measured \leq Baseline
	21:35		59.9	62.9	56.8			
	22:10		49.3	51.5	46.3		ſ	
25-Nov-22	22:15	Drizzle	53.5	55.2	50.1	52.7		53Measured \leq Baseline
	22:20		54.0	55.3	52.2			

Dete	Time	Weather		dB (.	A) (5-min)		Baseline Level	Construction Noise Level
Date	Time	weather	L _{eq}	L ₁₀	L 90	Average L _{eq}	L _{eq}	L _{eq}
	19:00		52.5	54.5	48.5			
3-Nov-22	19:05	Drizzle	50.5	53.5	48.0	52.0		60 Measured \leq Baseline
	19:10		52.8	55.5	48.3			
	19:21		54.5	56.5	50.1			
9-Nov-22	19:26	Fine	54.5	57.2	50.7	54.8		55Measured \leq Baseline
	19:31		55.3	57.2	51.1		60.2	
	19:00		54.8	57.1	48.0		00.2	
15-Nov-22	19:05	Fine	53.7	53.8	47.3	53.2		53Measured \leq Baseline
	19:10		49.3	51.5	46.3			
	19:17		63.2	64.8	56.4			
21-Nov-22	19:22	Windy	62.9	67.8	54.7	62.3		58
	19:27]	60.2	61.8	54.1			

(Restricted Hours - 2300-0700 on all days)

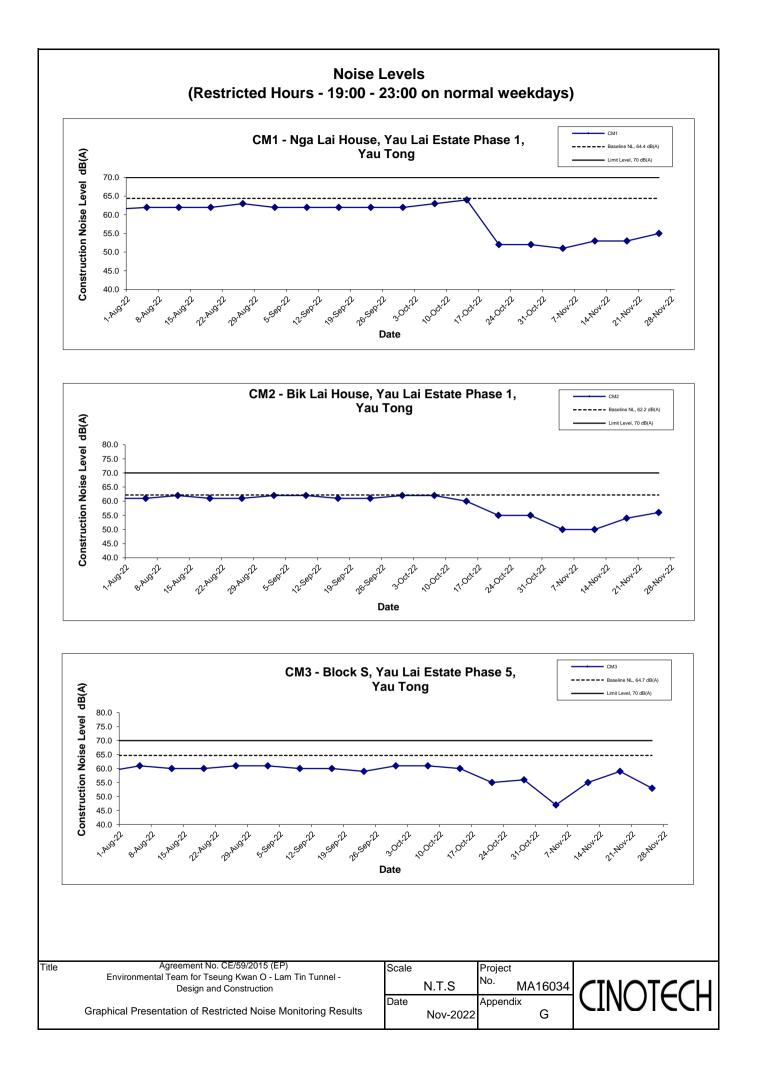
Location CM1 -	Nga Lai Hou	se, Yau Lai Est	ate Phase 1,	Yau Tong				
Dette	T '	Weather		dB (A) (5-min)		Baseline Level	Construction Noise Level
Date	Time	weather	L _{eq}	L ₁₀	L 90	Average L _{eq}	L _{eq}	L _{eq}
	23:50		50.8	51.7	48.8			
4-Nov-22	23:55	Fine	50.5	52.1	48.8	50.6	61.9	51 Measured \leq Baseline
	0:00		50.5	52.1	48.6			
	23:00		49.3	50.7	48.0			
11-Nov-22	23:05	Fine	51.0	52.3	49.2	50.6	63.7	51Measured \leq Baseline
	23:10		51.3	52.6	49.3			
	23:00		50.8	52.1	49.4			
18-Nov-22	23:05	Fine	52.1	53.5	50.3	51.5	63.7	52 Measured \leq Baseline
	23:10		51.5	52.9	50.1			
	23:00		54.3	55.8	52.7			
25-Nov-22	23:05	Drizzle	53.5	54.6	52.4	53.8	63.7	54Measured \leq Baseline
	23:10		53.6	55.0	51.8			

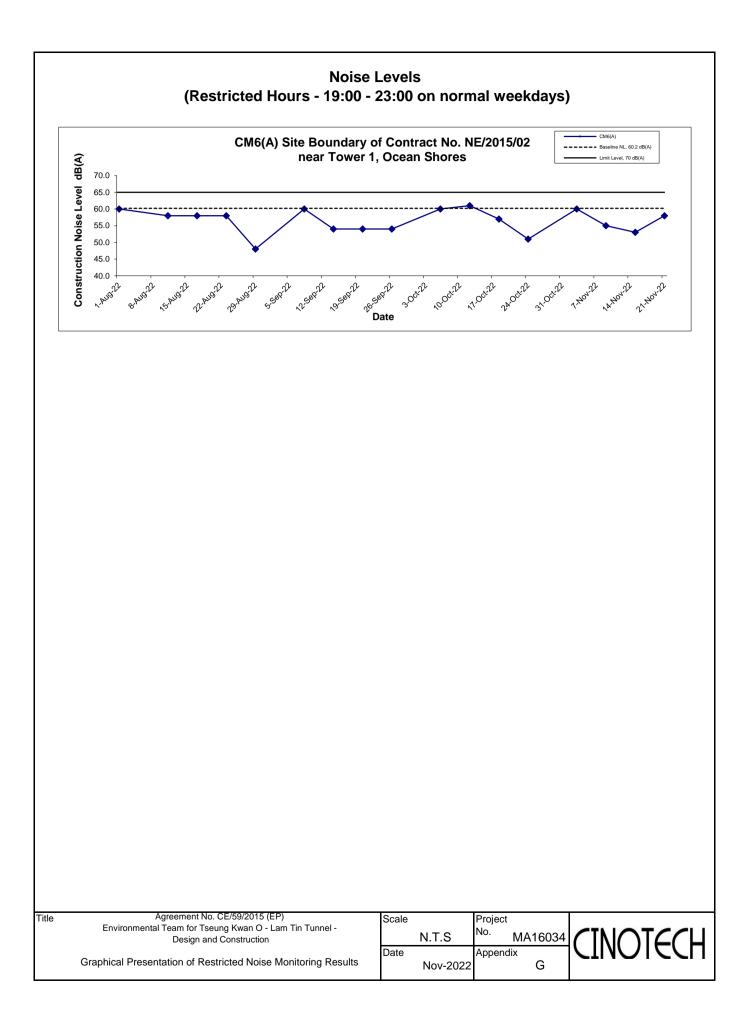
Location CM2 -	Bik Lai Hous	se, Yau Lai Est	ate Phase 1, Y	Yau Tong				
Date	Time	Weather		dB (A) (5-min)		Baseline Level	Construction Noise Level
Date	Time	weather	L _{eq}	L ₁₀	L 90	Average L _{eq}	L _{eq}	L _{eq}
	23:25		44.9	45.9	42.6			
4-Nov-22	23:30	Fine	44.1	45.7	42.0	44.5	61.6	45 Measured \leq Baseline
	23:35		44.6	45.8	43.2			
	23:30		48.8	49.7	47.6			
11-Nov-22	23:35	Fine	48.7	49.9	47.5	48.8	60.8	49Measured \leq Baseline
	23:40		48.8	50.0	47.5			
	23:30		52.8	53.9	51.5			
18-Nov-22	23:35	Fine	52.5	54.0	50.8	52.6	60.8	53Measured \leq Baseline
	23:40		52.4	54.1	50.6			
	23:30		52.8	54.2	49.7			
25-Nov-22	23:35	Drizzle	53.9	56.1	49.8	53.4	60.8	53Measured \leq Baseline
	23:40	I	53.4	54.6	49.0			

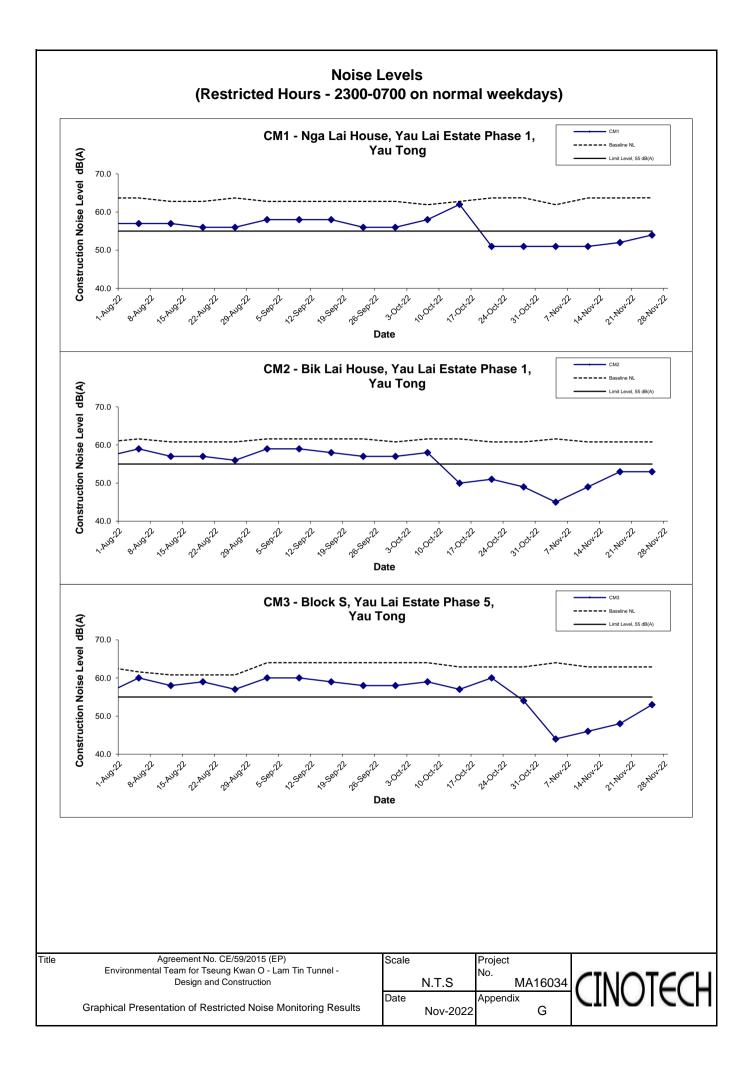
Location CM3 -	Block S, Yau	Lai Estate Pha	ase 5, Yau To	ng				
Date	Time	Weather		dB (.	A) (5-min)		Baseline Level	Construction Noise Level
Date	Time	weather	L _{eq}	L ₁₀	L 90	Average L _{eq}	L _{eq}	L _{eq}
	23:00		44.6	45.9	41.6			
4-Nov-22	23:05	Fine	44.6	45.9	41.9	44.3	64.0	44Measured \leq Baseline
	23:10		43.7	44.4	41.5			
	23:55		45.1	46.5	43.5			
11-Nov-22	0:00	Fine	44.5	46.4	42.7	45.7	62.9	46 Measured \leq Baseline
	0:05		47.0	47.6	44.4			
	23:55		48.2	49.7	46.0			
18-Nov-22	0:00	Fine	47.5	48.9	45.6	47.9	62.9	48 Measured \leq Baseline
	0:05		48.0	49.2	45.6			
	23:55		53.6	55.5	51.0			
25-Nov-22	0:00	Drizzle	53.5	54.0	50.3	52.8	62.9	53Measured \leq Baseline
	0:05		50.6	51.3	48.7			

Remark:

"Measured \leq Baseline" means that the averaged measured Leq is smaller than the baseline Leq, and therefore the measured levels are not valid exceedances.







APPENDIX I MARINE WATER QUALITY MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction Water Quality Monitoring Results on 04 November 2022

(Mid-Ebb Tide)

Location	Weather	Sea	Sampling	Depth (m)	Tempera	ture (°C)	p	н	Salini	ty ppt	DO Satura	ation (%)	Dissolve	d Oxygen	(mg/L)	Turbidit	y(NTU)	Suspend	ded Solids	(mg/L)
recention	Condition	Condition**	Time		Value	Average		Average	Value	Average	Value	Average	Value	Average	DA*		rage	DA*	Value	Average	DA*
				Surface 1.0	23.5 23.5	23.5	8.2 8.2	8.2	33.8 33.8	33.8	99.8 99.3	99.6	7.0	7.0		<u>3.7</u> 3.6 3	3.7		8.4 8.6	8.5	
C1	Sunny	Calm	9:08	Middle 9.1	23.5	23.5	8.2	8.2	33.9	33.9	96.7	96.7	6.8	6.8	6.9	6.6	6.6	5.5	9.1	9.4	9.4
01	Gunny	Call	5.00		23.5 23.5		8.2 8.2		33.9 33.9		96.7 96.1		6.8 6.7			0.0		0.0	9.6 10.2		- 3.4
				Bottom 17.0	23.5	23.5	8.2	8.2	33.9	33.9	96.1	96.1	6.7	6.7	6.7	6.2 6	6.2		10.6	10.4	
				Surface 1.1	23.5 23.5	23.5	8.2 8.2	8.2	33.5 33.5	33.5	100.2 99.5	99.9	7.0	7.0		2.8 2.7 2	2.8		9.4 9.1	9.3	
C2	Sunny	Calm	8:29	Middle 15.9	23.5	23.5	8.2	8.2	33.7 33.7	33.7	95.8	95.9	6.7	6.7	6.9	3.7	3.7	3.4	9.7	9.9	9.9
02	Curriy	Culli	0.20		23.5		8.2 8.2		33.7		95.9 95.6		6.7 6.7			3.7		0.1	10.1 10.8		0.0
				Bottom 31.0	23.5	23.5	8.2	8.2	33.7 33.7	33.7	95.6	95.6	6.7	6.7	6.7	3.9	3.9		10.5	10.7	L
				Surface 1.1	23.6 23.6	23.6	8.2 8.2	8.2	33.7 33.7	33.7	100.3 99.4	99.9	7.0 6.9	7.0		2.8 2.9 2	2.8		8.2 8.3	8.3	
G1	Sunny	Calm	8:48	Middle 4.1	23.5	23.5	8.2	8.2	33.8	33.8	97.1	97.1	6.8	6.8	6.9	3.0 3	3.0	3.5	8.9	9.1	9.1
	-				23.5 23.5		8.2 8.2		33.8 34.0		97.1 96.2		6.8 6.7	0.7	0.7	3.0			9.2 10.0		1
				Bottom 7.0	23.5	23.5	8.2	8.2	34.0	34.0	96.1	96.2	6.7	6.7	6.7	4.6	1.6		9.7	9.9	L
				Surface 1.1	23.5 23.5	23.5	8.2 8.2	8.2	33.6 33.6	33.6	100.8 100.6	100.7	7.1	7.1	7.0	3.0 2.9	3.0		9.2 9.6	9.4	
G2	Sunny	Calm	8:43	Middle 5.1	23.5	23.5	8.2	8.2	33.9	33.9	98.5	98.6	6.9	6.9	7.0	3.9	3.8	4.1	10.5	10.6	10.4
	-				23.5 23.5		8.2 8.2	8.2	33.9 34.0		98.6 97.1		6.9 6.8	<u> </u>	<u> </u>	3.8			10.7 11.3		1
				Bottom 9.0	23.5	23.5	8.2		34.0	34.0	97.0	97.1	6.8	6.8	6.8	5.6	5.7		11.1	11.2	L
				Surface 1.1	23.7 23.7	23.7	<u>8.2</u> 8.2	8.2	33.5 33.5	33.5	101.0 99.0	100.0	7.1 6.9	7.0	6.9	2.0 2.8 2	2.4		9.2 8.8	9.0	
G3	Sunny	Calm	8:51	Middle 4.1	23.6	23.6	8.2	8.2	33.8	33.8	96.9	96.9	6.8	6.8	6.9	3.2 3	3.2	3.4	9.5	9.7	9.7
				Bottom 7.0	23.6 23.6	23.6	8.2 8.2	8.2	33.8 34.0	34.0	96.9 95.7	95.5	6.8 6.7	6.7	6.7	3.2 4.6	1.7		9.8 10.4	10.3	
					23.6		8.2		34.0		95.2 98.4		6.6 6.9		0.7	4.9			10.2 10.5		<u> </u>
				Surface 1.1	23.6 23.6	23.6	8.2 8.2	8.2	33.8 33.8	33.8	97.9	98.2	6.8	6.9	6.8	3.5	3.5		10.2	10.4]
G4	Sunny	Calm	8:56	Middle 3.0	23.5 23.5	23.5	8.2 8.2	8.2	34.0 34.0	34.0	97.2 97.2	97.2	6.8 6.8	6.8	0.0	4.4 4	1.4	4.4	9.6 9.8	9.7	9.5
				Bottom 7.1	23.5	23.5	8.2	8.2	34.0	34.0	96.5	96.5	6.8	6.7	6.7	5.2 5	5.2		8.4	8.5	
					23.5 23.6		8.2 8.2		34.0 33.6		96.5 99.2		6.7 6.9		0.1	5.2			8.5 7.7		<u> </u>
				Surface 1.0	23.6	23.6	8.2	8.2	33.5	33.5	98.8	99.0	6.9	6.9	6.9	3.0	3.0		7.5	7.6]
M1	Sunny	Calm	8:46	Middle 3.2	23.5 23.5	23.5	8.2 8.2	8.2	33.8 33.8	33.8	97.8 97.7	97.8	6.8 6.8	6.8	0.0	2.7 2.8 2	2.7	3.0	8.0 8.6	8.3	8.4
				Bottom 5.0	23.5	23.5	8.2	8.2	33.9	33.9	97.7	97.7	6.8	6.8	6.8	3.2 3	3.3		9.4	9.3	
					23.5 23.5		<u>8.2</u> 8.2		33.9 33.8		97.7 100.5		6.8 7.0			3.3			9.1 9.1		
				Surface 1.0	23.5	23.5	8.2	8.2	33.9	33.8	100.3	100.4	7.0	7.0	7.0	3.1	3.1		8.8	9.0	
M2	Sunny	Calm	8:40	Middle 6.2	23.5 23.5	23.5	<u>8.2</u> 8.2	8.2	33.9 33.9	33.9	98.8 98.9	98.9	6.9 6.9	6.9		3.1 3.2 3	3.2	3.4	9.8 9.5	9.7	9.8
				Bottom 10.9	23.5	23.5	8.2	8.2	33.9	33.9	96.9	96.9	6.8	6.8	6.8	3.7 3	3.8		10.6	10.8	
				Surface 1.0	23.5 23.7	23.6	<u>8.2</u> 8.2	8.2	33.9 33.4	33.5	96.8 98.3	98.2	6.8 6.9	6.9		3.9 2.8	2.8		11.0 9.9	9.8	
				Sunace 1.0	23.6 23.6		8.2 8.2	0.2	33.6 34.0	55.5	98.0 95.1	90.2	6.9 6.6	0.9	6.8	2.7 ² 3.8 2			9.6 9.1	9.0	
M3	Sunny	Calm	8:53	Middle 4.1	23.6	23.6	8.2	8.2	34.0	34.0	95.1	95.1	6.6	6.6		3.9 3	3.9	4.2	9.4	9.3	9.2
				Bottom 6.9	23.6 23.6	23.6	8.2 8.2	8.2	34.0 34.0	34.0	94.2 94.1	94.2	6.6 6.6	6.6	6.6	6.1 6 6.1 6	6.1		8.4 8.8	8.6	
				Surface 1.1	23.4	23.4	8.2	8.2	33.8	33.8	103.9	102.1	9.0	8.0		3.2 3	3.2		9.8	9.7	
	_				23.5 23.5		8.2 8.2		33.9 33.9		100.2 98.4		7.0 6.9		7.5	3.2			9.5 9.2		1
M4	Sunny	Calm	8:36	Middle 5.1	23.5	23.5	8.2	8.2	33.9	33.9	98.4	98.4	6.9	6.9		3.2 3	3.2	3.4	8.8	9.0	8.9
				Bottom 8.8	23.5 23.5	23.5	<u>8.2</u> 8.2	8.2	33.9 33.9	33.9	98.1 98.0	98.1	6.9 6.9	6.9	6.9	3.8 3.8	3.8		8.3 8.0	8.2	
				Surface 1.0	23.5	23.5	8.2	8.2	33.8	33.8	100.1	100.1	7.0	7.0		3.0	3.0		10.5	10.3	
		<u>.</u>			23.5 23.5		<u>8.2</u> 8.2		33.8 33.9		100.0 97.7		7.0 6.8		6.9	3.0			10.1 9.4		
M5	Sunny	Calm	9:04	Middle 6.0	23.5	23.5	8.2	8.2	33.9	33.9	97.7	97.7	6.8	6.8		3.3	3.3	3.2	9.7	9.6	9.4
				Bottom 11.1	23.5 23.5	23.5	<u>8.2</u> 8.2	8.2	33.9 33.9	33.9	97.5 97.6	97.6	6.8 6.8	6.8	6.8	<u>3.4</u> 3.3	3.3		8.4 8.0	8.2	
				Surface -	-		-		-	-	-	-	-	-		-	-		-	-	
MC	C	Colm	0.04		- 23.5	22.0	- 8.2	0.0	- 33.9	22.0	- 100.0	100.0	- 7.0	7.0	7.0	- 3.1 3	1	24	- 8.7	0 -	0.5
M6	Sunny	Calm	9:01	Middle 2.0	23.6	23.6	8.2	8.2	33.9	33.9	99.9	100.0	7.0	7.0		3.1	3.1	3.1	8.3	8.5	8.5
				Bottom -	-	-	-		-	-	-	-	-	- 1	-	-	-		-	-	
Remarks:	*DA: Depth-Ave										· · · · · · · · · · · · · · · · · · ·								+		

Action and Limit Levels for Marine Water Quality on 4 November 2022 (Mid-Ebb Tide)

Parameter			
<u>(unit)</u>	<u>Depth</u>	Action Level	Limit Level
	Stations G1-G4, M1-M5	1	1
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
DO in mg/L (See Note 1 and 4)	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
		<u>19.3 NTU</u>	<u>22.2 NTU</u>
Turbidity in NTU (See Note 2 and 4)	Bottom	or 120% of upstream control station's Turbidity at the same tide of the same day	or 130% of upstream control station's Turbidity at the same tide of the same day
		<u>C2: 4.7 NTU</u>	<u>C2: 5.1 NTU</u>
	Station M6	1	
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
	Stations G1-G4	1	1
		<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Surface	station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
	G4 4°	<u>C2: 11.1 mg/L</u>	<u>C2: 12.0 mg/L</u>
	Stations M1-M5		- / /-
		<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
SS in mg/L	Surface	station's SS at the same tide of	station's SS at the same tide of
(See Note 2 and 4)		the same day	the same day
		<u>C2: 11.1 mg/L</u>	<u>C2: 12.0 mg/L</u>
	Stations G1-G4, M1-M5	Γ	[
		<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Bottom	station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
		<u>C2: 12.8 mg/L</u>	<u>C2: 13.8 mg/L</u>
	Station M6	+	· · · · · · · · · · · · · · · · · · ·
	Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction Water Quality Monitoring Results on 04 November 2022

(Mid-Flood Tide)

Location	Weather	Sea	Sampling	Depth	(m)	Temperat	ture (°C)	p	н	Salini	ty ppt	DO Satur	ation (%)	Dissolved	d Oxygen	(mg/L)	Tur	bidity(NTl	J)	Suspen	ded Solids	s (mg/L)
Location	Condition	Condition**	Time	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
				Surface	1.0	23.3	23.4	8.2	8.2	33.9	33.8	100.8	100.6	7.1	7.1		3.7	3.7		7.9	8.0	
	_					23.5 23.5		8.2 8.2		33.8 33.9		100.4 96.6		7.0 6.8		6.9	3.7 6.6			8.1 7.1		-
C1	Sunny	Calm	16:13	Middle	9.1	23.5	23.5	8.2	8.2	33.9	33.9	96.6	96.6	6.8	6.8		6.6	6.6	5.5	7.4	7.3	7.3
I				Bottom	17.0	23.5	23.5	8.2	8.2	33.9	33.9	96.1	96.1	6.7	6.7	6.7	6.4	6.4		6.8	6.8	
						23.5 23.5		8.2 8.2		33.9 33.5		96.1 98.5		6.7 6.9			6.3 2.8			6.7 7.3		
I				Surface	1.0	23.5	23.5	8.2	8.2	33.5	33.5	98.5	98.5	6.9	6.9	6.8	2.8	2.8		7.0	7.2	
C2	Sunny	Calm	15:34	Middle	16.0	23.5	23.5	8.2	8.2	33.7	33.7	95.7	95.7	6.7	6.7	0.8	3.6	3.7	3.2	7.5	7.7	7.8
	· · · · · · · · · · · · · · · · · ·					23.5		8.2		33.7 33.6		95.7 95.8		6.7 6.7			3.7			7.9 8.3		-
I				Bottom	31.0	23.5 23.5	23.5	<u>8.2</u> 8.2	8.2	33.6	33.6	95.9	95.9	6.7	6.7	6.7	3.3 3.2	3.2		8.5	8.4	
				Surface	1.1	23.6	23.6	8.2	8.2	33.7	33.7	98.8	98.7	6.9	6.9		2.8	2.8		8.2	8.1	
I						23.6		8.2 8.2		33.7		98.6 97.1		6.9 6.8		6.8	2.8 3.0			8.0 9.7		-
G1	Sunny	Calm	15:53	Middle	4.1	23.6 23.6	23.6	8.2	8.2	33.8 33.8	33.8	97.1	97.1	6.8	6.8		3.0	3.0	3.4	9.7	9.8	9.4
I				Bottom	7.1	23.5	23.5	8.2	8.2	34.0	33.9	96.0	96.1	6.7	6.7	6.7	4.5	4.5		10.6	10.4	
				Dottoin		23.5 23.5		8.2		33.9 33.6		96.1 100.4		6.7 7.0		0.1	4.4 2.9			10.2 7.8		
I				Surface	1.0	23.5	23.5	8.2 8.2	8.2	33.6	33.6	100.4	100.3	7.0	7.0	7.0	2.9	2.9		7.8	7.6	
G2	Sunny	Calm	15:47	Middle	5.1	23.5	23.5	8.2	8.2	33.9	33.9	98.7	98.8	6.9	6.9	7.0	3.8	3.7	4.0	8.1	8.3	8.4
02	County	Callin	10.47	Wildulo		23.5		8.2		33.8 34.0		98.8	00.0	6.9			3.6		4.0	8.5		0.4
I				Bottom	9.0	23.5 23.5	23.5	<u>8.2</u> 8.2	8.2	34.0	34.0	96.8 96.7	96.8	6.8 6.8	6.8	6.8	5.5 5.4	5.4		9.6 9.3	9.5	
				Surface	1.2	23.7	23.7	8.2	8.2	33.5	33.5	98.8	98.6	6.9	6.9		2.8	2.8		6.2	6.5	
I				Guildoo	1.2	23.7	20.1	8.2	0.2	33.5	00.0	98.4	00.0	6.9		6.8	2.8	2.0		6.7	0.0	_
G3	Sunny	Calm	15:56	Middle	4.0	23.6 23.6	23.6	<u>8.2</u> 8.2	8.2	33.8 33.8	33.8	97.0 97.1	97.1	6.8 6.8	6.8		3.2 3.1	3.1	3.7	7.4	7.5	7.8
I				Bottom	6.9	23.6	23.6	8.2	8.2	34.0	34.0	94.7	94.5	6.6	6.6	6.6	5.2	5.2		9.2	9.4	
				Dottoin	0.0	23.6	20.0	8.2		34.0	04.0	94.2	04.0	6.6	0.0	0.0	5.3	0.2		9.6	0.4	
I				Surface	1.0	23.6 23.6	23.6	8.2 8.2	8.2	33.8 33.8	33.8	97.3 97.2	97.3	6.8 6.8	6.8		3.6 3.6	3.6		10.4 10.0	10.2	
G4	Sunny	Calm	16:01	Middle	4.0	23.5	23.5	8.2	8.2	34.0	34.0	97.1	97.1	6.8	6.8	6.8	4.4	4.4	4.4	9.2	9.4	9.3
0.	County	ouin	10.01	inidato		23.5		8.2		34.0		97.1		6.8			4.4			9.6		- 0.0
I				Bottom	7.1	23.5 23.5	23.5	<u>8.2</u> 8.2	8.2	34.0 34.0	34.0	96.5 96.4	96.5	6.7 6.7	6.7	6.7	<u>5.2</u> 5.1	5.1		8.4 8.0	8.2	
				Surface	1.0	23.5	23.5	8.2	8.2	33.6	33.6	99.5	99.4	7.0	7.0		3.0	3.0		8.4	8.6	
I				Guildoo		23.5 23.5		8.2		33.6		99.3 97.9		7.0		6.9	3.0 2.6			8.8		_
M1	Sunny	Calm	15:51	Middle	3.0	23.5	23.5	8.2 8.2	8.2	33.8 33.8	33.8	97.9	97.9	6.9 6.9	6.9		2.0	2.7	2.9	8.0 7.6	7.8	7.7
I				Bottom	5.0	23.5	23.5	8.2	8.2	33.9	33.9	97.8	97.8	6.8	6.8	6.8	2.9	3.0		6.9	6.7	
						23.5 23.5		8.2		33.9 33.8		97.8 100.8		6.8 7.1		0.0	3.0 3.2			6.5 8.4		
I				Surface	1.1	23.5	23.5	<u>8.2</u> 8.2	8.2	33.8	33.8	100.8	100.7	7.0	7.0	7.0	3.1	3.1		8.1	8.3	
M2	Sunny	Calm	15:44	Middle	6.1	23.5	23.5	8.2	8.2	33.9	33.9	98.7	98.7	6.9	6.9	7.0	3.2	3.2	3.3	9.1	9.0	9.0
	· · · · · · · · · · · · · · · · · ·					23.5 23.5		8.2 8.2		33.9 33.9		98.7 97.2		6.9 6.8			3.1 3.5			8.8 10.0		-
I				Bottom	11.0	23.5	23.5	8.2	8.2	33.9	33.9	97.0	97.1	6.8	6.8	6.8	3.5	3.5		9.7	9.9	
				Surface	1.0	23.7	23.7	8.2	8.2	33.3	33.3	98.6	98.5	6.9	6.9		2.8	2.8		7.1	7.2	
I						23.7 23.6		8.2 8.2		33.4 34.0		98.4 95.0		6.9 6.6		6.8	2.8 3.9			7.3 8.0		
M3	Sunny	Calm	15:58	Middle	4.0	23.6	23.6	8.2	8.2	34.0	34.0	95.0	95.0	6.6	6.6		3.8	3.9	4.2	7.8	7.9	8.1
I				Bottom	7.0	23.6	23.6	8.2	8.2	34.0	34.0	94.4	94.4	6.6	6.6	6.6	5.8	5.9		9.2	9.1	
						23.6 23.5		<u>8.2</u> 8.2		34.0 33.9		94.3 99.8		6.6 7.0			6.0 3.2			8.9 8.2		
I				Surface	1.1	23.5	23.5	8.2	8.2	33.9	33.9	99.5	99.7	7.0	7.0	6.9	3.3	3.3		8.5	8.4	
M4	Sunny	Calm	15:41	Middle	5.1	23.5	23.5	8.2	8.2	33.9	33.9	98.5	98.5	6.9	6.9	0.9	3.2	3.2	3.4	7.8	7.9	7.9
I	2					23.5 23.5		8.2 8.2		33.9 33.9		98.5 97.9		6.9 6.9			3.3 3.8			8.0 7.1		-
				Bottom	9.0	23.5	23.5	8.2	8.2	33.9	33.9	97.8	97.9	6.8	6.8	6.8	3.8	3.8		7.5	7.3	
				Surface	1.1	23.5	23.5	8.2	8.2	33.8	33.8	99.7	99.6	7.0	7.0		3.0	3.0		8.3	8.5	
	_					23.5 23.5		8.2 8.2		33.8 33.9		99.4 97.8		7.0 6.8		6.9	3.0 3.3			8.6 8.0		-
M5	Sunny	Calm	16:09	Middle	6.0	23.5	23.5	8.2	8.2	33.9	33.9	97.8	97.8	6.8	6.8		3.4	3.4	3.2	7.6	7.8	7.8
I				Bottom	11.2	23.5	23.5	8.2	8.2	33.9	33.9	97.6	97.6	6.8	6.8	6.8	3.3	3.4		7.3	7.2	
	+		+			23.5		8.2		33.9		97.6		6.8			3.4			7.1		+
	1	1	1	Surface	-	-	-	-	-	-	-	-	-	-	-	7.0	-	-		-		
1																						
M6	Sunny	Calm	16:05	Middle	2.1	23.5	23.5	8.2	8.2	33.9	33.9	100.5	100.3	7.0	7.0	7.0	8.0	8.0	3.1	7.0	7.2	7.2
M6	Sunny	Calm	16:05	Middle Bottom	2.1	23.5 23.5	23.5	8.2 8.2	8.2	33.9 33.9 -	33.9	100.5 100.1	100.3	7.0 7.0	7.0	7.0	8.0 8.0	8.0	3.1	7.0 7.3	7.2	7.2

Remarks: *DA: Depth-Averaged

Action and Limit Levels for Marine Water Quality on 4 November 2022 (Mid-Flood Tide)

Parameter	Donth	Action Level	Limit Level
<u>(unit)</u>	<u>Depth</u>	Action Level	Linit Level
	Stations G1-G4, M1-M5	1	
DO in mg/L	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
(See Note 1 and 4)	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
	<u>Stations G1-G4, M1-M5</u>		
		<u>19.3 NTU</u>	<u>22.2 NTU</u>
Turbidity in NTU (See Note 2 and 4)	Bottom	or 120% of upstream control station's Turbidity at the same tide of the same day	or 130% of upstream control station's Turbidity at the same tide of the same day
		<u>C1: 7.6 NTU</u>	<u>C1: 8.3 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
	Stations G1-G4		
		<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Surface	station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
		<u>C1: 9.6 mg/L</u>	<u>C1: 10.4 mg/L</u>
	Stations M1-M5		- / /-
		<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
SS in mg/L	Surface	station's SS at the same tide of	station's SS at the same tide of
(See Note 2 and 4)		the same day	the same day
	Stations G1-G4, M1-M5	<u>C1: 9.6 mg/L</u>	<u>C1: 10.4 mg/L</u>
	<u>5440015 01-07, 1411-1415</u>	()	7.0 /7
		<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Bottom	station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
	Station MC	<u>C1: 8.1 mg/L</u>	<u>C1: 8.8 mg/L</u>
	Station M6		
	Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction Water Quality Monitoring Results on 07 November 2022

(Mid-Ebb Tide)

Location	Condition	Condition**	Time	Depth (m)		-															
					Valu			Average		Average		Average		Average	DA*		Average	DA*	Value	Average	DA*
1				Surface 1.	1 23.		<u>8.2</u> 8.2	8.2	33.6 33.6	33.6	97.0 96.5	96.8	6.8 6.8	6.8		3.1 3.2	3.2		2.5 2.3	2.4	
C1	Sunny	Moderate	11:11	Middle 9.	1 23.	23.1	8.2	8.2	33.6	33.6	94.2	94.3	6.7	6.7	6.7	5.0	4.9	7.0	3.7	3.5	3.3
					23.		<u>8.2</u> 8.2		33.6 33.7		94.4 93.4		6.7 6.6		0.0	4.8 6.4			3.3		-
				Bottom 17	. 23.	23.1	8.2	8.2	33.7	33.7	93.3	93.4	6.6	6.6	6.6	19.8	13.1		4.2	4.1	
				Surface 1.	1 23.	23.1	8.2 8.2	8.2	33.6 33.6	33.6	96.4 96.1	96.3	6.8 6.8	6.8	6.7	4.2	4.2		3.3 3.7	3.5	
C2	Sunny	Moderate	10:28	Middle 15	.9 23.	23.1	8.2 8.2	8.2	33.6 33.6	33.6	93.8 93.9	93.9	6.6 6.6	6.6	0.7	3.8 3.9	3.9	4.4	4.4	4.7	4.7
				Bottom 31	2 23.	22.4	8.2	8.2	33.7	33.7	92.9	92.9	6.6	6.6	6.6	5.2	5.2		5.8	5.9	1
					23.		8.2 8.2	8.2	33.7 33.6	33.6	92.9 98.3	98.2	6.6 6.9	6.9		5.2 3.4	2.6		6.0 2.6	2.4	
				Surface 1.	23.	,	8.2 8.2		33.6 33.7		98.1 96.2		6.9 6.8		6.8	1.9 2.4			2.2 3.2		-
G1	Sunny	Moderate	10:51	Middle 4.	23.	23.2	8.2	8.2	33.7	33.7	96.6	96.4	6.8	6.8		2.3	2.4	2.5	2.9	3.1	3.0
				Bottom 7.	1 23.		8.2 8.2	8.2	33.7 33.7	33.7	94.7 94.5	94.6	6.7 6.7	6.7	6.7	2.6 2.6	2.6		3.6 3.6	3.6	
				Surface 1.	1 23.	233	8.2	8.2	33.6	33.6	98.9	98.7	7.0	6.9		3.2	3.2		2.2	2.2	
G2	Suppy	Moderate	10:43		23.		8.2 8.2	8.2	33.6 33.7	33.7	98.5 95.7	95.9	6.9 6.8	6.8	6.9	3.2 3.4	3.4	3.3	2.1 3.0	2.9	2.9
GZ	Sunny	woderate	10:43	Middle 5.	23.	23.1	8.2 8.2		33.7		96.0		6.8			3.4		3.3	2.7 4.0		2.9
				Bottom 9.	22.) 22.9	8.2	8.2	33.6 33.6	33.6	95.6 95.6	95.6	6.8 6.8	6.8	6.8	3.2 3.2	3.2		4.0 3.6	3.8	
				Surface 1.	0 23.		8.2 8.2	8.2	33.7 33.7	33.7	96.1 96.2	96.2	6.8 6.8	6.8		2.4 2.5	2.4		4.1 3.9	4.0	
G3	Sunny	Moderate	10:55	Middle 4.	0 23.	23.2	8.2	8.2	33.7	33.7	95.6	95.8	6.7	6.7	6.8	2.6	2.6	2.5	3.0	3.2	3.2
				Bottom 7.	23.		8.2 8.2	8.2	33.7 33.7	33.7	96.0 95.0	94.9	6.8 6.7	6.7	6.7	2.5 2.5	2.5		3.4	2.5	-
					23.	23.1	8.2 8.2		33.7 33.7 33.7		94.8 95.2		6.7 6.7		0.7	2.4 2.6			2.2 2.7 4.6		
				Surface 1.	23.	23.3	8.2	8.2	33.7	33.7	95.5	95.4	6.7	6.7	6.7	2.5	2.6		4.1	4.4	
G4	Sunny	Moderate	11:00	Middle 4.	0 23.	23.2	8.2 8.2	8.2	33.7 33.7	33.7	95.1 95.3	95.2	6.7 6.7	6.7	0.1	2.7 2.6	2.6	2.8	3.4 3.1	3.3	3.4
				Bottom 7.	0 23.	23.1	8.2	8.2	33.7	33.7	94.1	94.0	6.6	6.6	6.6	3.2	3.3		2.3	2.5	1
					23.		8.2 8.2		33.7 33.2		93.9 98.1		6.6 6.9			3.4 2.8			2.6		
				Surface 1.	23.	23.4	8.2 8.2	8.2	33.2	33.2	97.7 95.7	97.9	6.9	6.9	6.8	2.9 1.5	2.8		3.9	3.7	-
M1	Sunny	Moderate	10:48	Middle 3.	0 23.		8.2	8.2	<u>33.5</u> 33.4	33.4	95.7 96.3	96.0	6.7 6.8	6.8		1.5	1.5	2.0	3.1 2.7	2.9	3.0
				Bottom 5.	0 23.		8.2 8.2	8.2	33.7 33.7	33.7	94.5 94.0	94.3	6.7 6.6	6.6	6.6	1.7 1.7	1.7		2.4	2.5	
				Surface 1.	1 23.	3 23 3	8.2	8.2	33.6	33.6	99.8	99.7	7.0	7.0		2.7	2.7		1.8	1.9	
M2	Current	Madazata	40.20		23.	5	8.2 8.2	8.2	33.6 33.7	33.7	99.5 96.3		7.0 6.8	6.8	6.9	2.7 3.5		2.4	1.9 2.1	2.3	2.3
IVIZ	Sunny	Moderate	10:39	Middle 6.	23.	23.1	8.2		33.7	33.7	96.6	96.5	6.8	0.8		3.4 4.1	3.5	3.4	2.4	2.3	2.3
				Bottom 10	.9 23.		8.2 8.2	8.2	33.7 33.6	33.6	95.3 95.2	95.3	6.7 6.7	6.7	6.7	4.1	4.1		3.1 2.7	2.9	
				Surface 0.	0 23.		8.2 8.2	8.2	33.6 33.6	33.6	99.0 98.7	98.9	7.0	6.9		4.1 2.7	3.4		4.6	4.4	
M3	Sunny	Moderate	10:56	Middle 4.	1 23.	22.2	8.2	8.2	33.7	33.7	96.7	96.9	6.8	6.8	6.9	2.2	2.2	2.7	3.3	3.6	3.4
				Bottom 7.	23.		8.2 8.2	8.2	33.7 33.7	33.7	97.0 96.0	95.9	6.8 6.8	6.8	6.8	2.2 2.4	2.4		3.8 2.1	2.2	-
					23.	23.1	8.2 8.2		33.7 33.6		95.7 95.7		6.7 6.7		0.0	2.4 3.8			2.2 3.8		
				Surface 1.	23.	23.2	8.2	8.2	33.6	33.6	95.4	95.6	6.7	6.7	6.7	3.6	3.7		3.5	3.7	
M4	Sunny	Moderate	10:34	Middle 5.	0 23.		8.2 8.2	8.2	33.6 33.6	33.6	94.8 94.9	94.9	6.7 6.7	6.7	0.1	3.2 3.3	3.2	3.6	3.1 2.8	3.0	3.0
				Bottom 9.	0 23.	23.0	8.2	8.2	33.7	33.7	94.5	94.5	6.7	6.7	6.7	3.9	3.9		2.2	2.4	1
				Surface 1	23. 23.		8.2 8.2	0.0	33.7 33.7	22.7	94.4 97.4	07.4	6.7 6.9	6.0		3.9 3.0	2.0		2.5 2.4	2.5	
				Surface 1.	23.	23.1	8.2 8.2	8.2	33.7 33.6	33.7	97.4 96.7	97.4	6.9 6.8	6.9	6.9	2.9 3.0	2.9		2.6 3.1	2.5	4
M5	Sunny	Moderate	11:08	Middle 6.	23.	23.0	8.2	8.2	33.6	33.6	96.7	96.7	6.8	6.8		3.0	3.0	3.0	3.4	3.3	3.3
				Bottom 11	.1 22.	22.9	<u>8.2</u> 8.2	8.2	33.6 33.6	33.6	96.5 96.4	96.5	6.8 6.8	6.8	6.8	3.2 3.2	3.2		3.8 4.2	4.0	
				Surface -	-	-	-	-	-	-	-	-	-	-		-	-		-	-	1
M6	Sunny	Moderate	11:03		1 23.	23.2	- 8.2	8.2	- 33.7 33.7	33.7	- 98.2	98.0	- 6.9	6.9	6.9	- 2.2	2.3	2.3	- 2.5	2.7	2.7
IVIO	Suriny	wouerate	11.05		23.	23.2	8.2	0.2	33.7	33.1	97.8	90.0	6.9	0.9		2.3	2.3	2.3	2.5 2.9	2.1	2.1
1				Bottom -				1		1					i						i.

Action and Limit Levels for Marine Water Quality on 7 November 2022 (Mid-Ebb Tide)

Parameter			
<u>(unit)</u>	<u>Depth</u>	Action Level	Limit Level
	Stations G1-G4, M1-M5	1	1
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
DO in mg/L (See Note 1 and 4)	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	Station M6	•	
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
	Stations G1-G4, M1-M5	-	-
		<u>19.3 NTU</u>	<u>22.2 NTU</u>
Turbidity in NTU (See Note 2 and 4)	Bottom	or 120% of upstream control station's Turbidity at the same tide of the same day	or 130% of upstream control station's Turbidity at the same tide of the same day
	Station M6	<u>C2: 6.3 NTU</u>	<u>C2: 6.8 NTU</u>
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
	Stations G1-G4		
		<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
	~ ^	or 120% of upstream control station's SS at the same tide of	or 130% of upstream control station's SS at the same tide of
	Surface		
		the same day	the same day
	G4 4°	<u>C2: 4.2 mg/L</u>	<u>C2: 4.6 mg/L</u>
	Stations M1-M5		7 4 4
		<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
SS in mg/L	Surface	station's SS at the same tide of	station's SS at the same tide of
(See Note 2 and 4)		the same day	the same day
		<u>C2: 4.2 mg/L</u>	<u>C2: 4.6 mg/L</u>
	Stations G1-G4, M1-M5		
		<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Bottom	station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
		<u>C2: 7.1 mg/L</u>	<u>C2: 7.7 mg/L</u>
	Station M6	ļ	<u> </u>
	Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction Water Quality Monitoring Results on 07 November 2022

(Mid-Flood Tide)

Location	Weather	Sea	Sampling	Depth	(m)	Temperat		р	н	Salini	ty ppt	DO Satura	ation (%)	Dissolve	d Oxygen	(mg/L)	Tur	bidity(NT	U)	Suspen	ded Solids	(mg/L)
Location	Condition	Condition**	Time	Depth	(11)		Average		Average		Average		Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
				Surface	1.0	23.1 23.2	23.2	8.2 8.2	8.2	33.6	33.6	94.7 94.8	94.8	6.7 6.7	6.7		3.6 3.5	3.6		3.1	3.3	
C1	Sunny	Moderate	16:10	Middle	9.0	23.1	23.1	8.2	8.2	33.6 33.7	33.6	93.8	93.9	6.6	6.6	6.7	5.6	5.6	5.2	3.4 2.5	2.7	2.7
CI	Sunny	Woderate	10.10	Midule		23.1		8.2		33.6		93.9		6.6			5.5		5.2	2.9		2.7
				Bottom	17.0	23.1 23.1	23.1	8.2 8.2	8.2	33.7 33.7	33.7	93.2 93.2	93.2	6.6 6.6	6.6	6.6	6.5 6.5	6.5		2.4 2.1	2.3	
				Surface	1.0	23.1	23.1	8.2	8.2	33.6	33.6	94.4	94.5	6.7	6.7		4.2	4.2		3.6	3.5	
C2	Sunny	Modoroto	15:28	Middle	15.9	23.1 23.1	23.1	8.2 8.2	8.2	33.6 33.6	33.6	94.5 93.4	93.4	6.7 6.6	6.6	6.6	4.3 4.2	4.2	4.9	3.3 3.1	3.0	2.9
62	Sunny	Moderate	15:28	IVIIdale	15.9	23.1	23.1	8.2	8.2	33.6	33.0	93.4	93.4	6.6	0.0		4.2	4.2	4.9	2.8	3.0	2.9
				Bottom	31.0	23.1 23.1	23.1	8.2 8.2	8.2	33.7 33.7	33.7	92.9 92.8	92.9	6.6 6.5	6.5	6.5	6.0 6.3	6.2		2.5 2.2	2.4	
				Surface	1.0	23.3 23.4	23.4	8.2 8.2	8.2	33.6	33.5	96.0	96.1	6.8	6.8		1.9	1.9		3.6	3.5	
G1	Current	Madarata	15:49	Middle	4.0	23.4	23.2	8.2	8.2	33.5 33.7	22.7	96.2 95.3	05.4	6.8 6.7	6.7	6.7	1.8 2.3	2.2		3.4 3.0	2.0	2.0
GI	Sunny	Moderate	15:49	Middle	4.0	23.2	23.Z	8.2	8.2	33.7	33.7	95.5	95.4	6.7	6.7		2.2	2.3	2.2	2.8	2.9	2.9
				Bottom	6.9	23.1 23.1	23.1	8.2 8.2	8.2	33.7 33.7	33.7	94.5 94.3	94.4	6.7 6.7	6.7	6.7	2.5 2.5	2.5		2.5 2.2	2.4	
				Surface	1.1	23.2	23.3	8.2	8.2	33.6	33.6	96.1	96.1	6.8	6.8		2.5	2.5		1.9	1.9	
						23.3 23.1		8.2 8.2		33.6 33.7		96.0 95.0		6.8 6.7		6.7	2.5 3.1			1.9 3.3		
G2	Sunny	Moderate	15:41	Middle	5.2	23.1	23.1	8.2	8.2	33.7	33.7	95.1	95.1	6.7	6.7		3.1	3.1	3.2	2.9	3.1	3.2
				Bottom	9.1	23.0 22.9	22.9	8.2 8.2	8.2	33.6 33.6	33.6	95.0 95.1	95.1	6.7 6.7	6.7	6.7	4.0	4.1		4.4	4.6	
				Surface	1.0	23.3	23.3	8.2	8.2	33.6	33.6	94.8	95.0	6.7	6.7		2.3	2.3		3.6	3.8	
	-					23.3 23.2		8.2 8.2		33.7 33.7		95.2 95.7		6.7 6.7		6.7	2.3 2.5			4.0 3.0		·
G3	Sunny	Moderate	15:51	Middle	4.0	23.2	23.2	8.2	8.2	33.7	33.7	95.9	95.8	6.7	6.7		2.4	2.4	2.4	3.3	3.2	3.1
				Bottom	7.0	23.2 23.1	23.1	8.2 8.2	8.2	33.7 33.7	33.7	95.1 94.8	95.0	6.7 6.7	6.7	6.7	2.5 2.5	2.5		2.5 2.2	2.4	
				Surface	1.1	23.3	23.3	8.2	8.2	33.6	33.6	99.3	99.1	7.0	7.0		2.3	2.4		2.9	2.7	
	-					23.3 23.2		8.2 8.2		33.6 33.7		98.9 96.1		7.0 6.8		6.9	2.4 3.0			2.5 3.5		
G4	Sunny	Moderate	15:57	Middle	4.0	23.2	23.2	8.2	8.2	33.7	33.7	96.7	96.4	6.8	6.8		2.9	2.9	3.0	3.2	3.4	3.4
				Bottom	7.0	23.1 23.1	23.1	8.2 8.2	8.2	33.7 33.7	33.7	94.1 94.0	94.1	6.6 6.6	6.6	6.6	3.7 3.7	3.7		4.3	4.2	
				Surface	1.1	23.3	23.3	8.2	8.2	33.4	33.4	93.8	94.0	6.6	6.6		1.8	1.8		3.9	3.7	
•••			15 10			23.3 23.2		8.2 8.2		33.4 33.6		94.2 94.5		6.6 6.7		6.6	1.8 2.0			3.4 2.6		
M1	Sunny	Moderate	15:46	Middle	3.0	23.3	23.2	8.2	8.2	33.6	33.6	94.4	94.5	6.6	6.6		2.0	2.0	2.0	3.0	2.8	2.9
				Bottom	5.0	23.2	23.2	8.2	8.2	33.7 33.7	33.7	92.9 92.5	92.7	6.5 6.5	6.5	6.5	2.3 2.4	2.3		2.5	2.4	
				Surface	1.1	23.2 23.3	23.3	8.2 8.2	8.2	33.7 33.7	33.7	96.6	96.7	6.8	6.8		2.8	2.8		2.2 2.6	2.8	
	_					23.3 23.1		8.2 8.2		33.7 33.7		96.7 95.6		6.8 6.7		6.8	2.7 3.4			3.0 3.2	-	
M2	Sunny	Moderate	15:37	Middle	5.9	23.1	23.1	8.2	8.2	33.7	33.7	95.8	95.7	6.8	6.7		3.3	3.4	3.1	3.5	3.4	3.5
				Bottom	11.1	23.0 22.9	22.9	8.2 8.2	8.2	33.6 33.6	33.6	94.8 94.7	94.8	6.7 6.7	6.7	6.7	3.2 3.2	3.2		4.1	4.3	
				Surface	1.0	23.3	23.3	8.2	8.2	33.7	33.6	95.8	95.8	6.7	6.7		2.3	2.3		3.2	3.4	
	_					23.4 23.2		8.2 8.2		33.6 33.7		95.7 94.9		6.7 6.7		6.7	2.3 2.4			3.6 2.8		-
M3	Sunny	Moderate	15:55	Middle	4.0	23.3	23.2	8.2	8.2	33.7	33.7	95.0	95.0	6.7	6.7		2.4	2.4	2.4	3.1	3.0	3.0
				Bottom	7.1	23.1 23.2	23.1	8.2 8.2	8.2	33.7 33.7	33.7	94.9 94.9	94.9	6.7 6.7	6.7	6.7	2.5 2.4	2.5		2.4	2.6	
				Surface	1.0	23.2	23.2	8.2	8.2	33.6	33.6	94.9	94.9	6.7	6.7		3.0	3.0		2.2	2.4	
	_					23.2 23.1		8.2 8.2		33.6 33.6		94.8 94.4		6.7 6.7		6.7	3.0 3.2			2.5 2.7		
M4	Sunny	Moderate	15:32	Middle	5.0	23.1	23.1	8.2	8.2	33.6	33.6	94.5	94.5	6.7	6.7		3.1	3.1	3.3	3.0	2.9	2.9
				Bottom	9.1	23.1	23.1	8.2 8.2	8.2	33.7	33.7	94.1	94.1	6.6	6.6	6.6	3.6 3.7	3.7		3.5	3.4	
				Surface	1.1	23.1 23.1	23.1	8.2	8.2	33.7 33.6	33.6	94.1 99.1	98.4	6.6 7.0	6.9		3.0	3.0		3.3 2.8	2.7	
						23.1 23.0		8.2 8.2		33.6		97.7 97.3		6.9 6.9		6.9	3.1 3.0			2.5		-
M5	Sunny	Moderate	16:04	Middle	6.1	23.0	23.0	8.2	8.2	33.6 33.6	33.6	97.3	97.4	6.9	6.9		3.1	3.0	3.2	3.0 3.3	3.2	3.3
				Bottom	10.8	22.9 22.9	22.9	8.2 8.2	8.2	33.6	33.6	96.5	96.5	6.8	6.8	6.8	3.4	3.4		4.2 3.9	4.1	
				Surface		-	-	0.2	-	33.6	-	96.4		6.8 -	-		3.4	-		3.9	-	<u> </u>
					-	-		-		- 33.7		-		-		6.9	-			-		-
M6	Sunny	Moderate	16:01	Middle	2.3	23.2 23.2	23.2	8.2 8.2	8.2	33.7	33.7	97.4 97.1	97.3	6.9 6.8	6.9		8.0 8.0	8.0	2.4	2.8 3.2	3.0	3.0
				Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	I	-	-	
amarka:	*DA: Dooth Ave		1			-		-		-		-		-			-			-		

Remarks: *DA: Depth-Averaged

Action and Limit Levels for Marine Water Quality on 7 November 2022 (Mid-Flood Tide)

Parameter	<u>Depth</u>	Action Level	Limit Level
<u>(unit)</u>	_		
	Stations G1-G4, M1-M5	[r
DO in mg/L	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
(See Note 1 and 4)	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	Station M6	1	1
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
	Stations G1-G4, M1-M5		
		<u>19.3 NTU</u>	<u>22.2 NTU</u>
Turbidity in NTU (See Note 2 and 4)	Bottom	or 120% of upstream control station's Turbidity at the same tide of the same day	or 130% of upstream control station's Turbidity at the same tide of the same day
		<u>C1: 7.8 NTU</u>	<u>C1: 8.4 NTU</u>
	<u>Station M6</u>		F
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
	Stations G1-G4	•	
		<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Surface	station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
		<u>C1: 3.9 mg/L</u>	<u>C1: 4.2 mg/L</u>
	Stations M1-M5		- / /-
		<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
SS in mg/L	Surface	station's SS at the same tide of	station's SS at the same tide of
(See Note 2 and 4)		the same day	the same day
	Stations C1 C4 M1 M5	<u>C1: 3.9 mg/L</u>	<u>C1: 4.2 mg/L</u>
	Stations G1-G4, M1-M5		
		<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
	_	or 120% of upstream control	or 130% of upstream control
	Bottom	station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
	~	<u>C1: 2.7 mg/L</u>	<u>C1: 2.9 mg/L</u>
	Station M6		
	Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction Water Quality Monitoring Results on 09 November 2022

(Mid-Ebb Tide)

Location	Weather	Sea	Sampling	Depth (m)	Tempera	ture (°C)	p	н	Salini	ty ppt	DO Satura	ation (%)	Dissolve	d Oxygen	(mg/L)	Turbid	ity(NTU	J)	Suspen	ded Solids	(mg/L)
Location	Condition	Condition**	Time	Deptii (iii)	Value	Average		Average	Value	Average	Value	Average		Average	DA*		/erage	DA*	Value	Average	DA*
				Surface 1.0	23.2 23.2	23.2	8.2 8.2	8.2	33.4 33.4	33.4	99.2 99.2	99.2	7.0	7.0		2.3 2.4	2.4		3.4 3.2	3.3	
C1	Sunny	Moderate	12:54	Middle 8.9	22.7	22.7	8.2	8.2	33.3	33.3	97.8	97.9	7.0	7.0	7.0	3.9	3.8	3.8	2.5	2.7	2.7
01	Gunny	Woderate	12.54		22.7		8.2 8.2		33.3 33.4		97.9 96.6		7.0 6.9			3.7 5.4		5.0	2.8 2.2		2.1
				Bottom 17.	22.8	22.8	8.2	8.2	33.4	33.4	96.1	96.4	6.8	6.8	6.8	5.4	5.4		2.3	2.3	
				Surface 1.1	23.2	23.2	<u>8.1</u> 8.1	8.1	33.5 33.5	33.5	93.5 93.6	93.6	6.6 6.6	6.6		3.2 3.2	3.2		2.4 2.3	2.4	
C2	Sunny	Moderate	12:17	Middle 16.	23.1	23.1	8.1	8.1	33.5	33.5	91.9	92.0	6.5	6.5	6.5	4.1	4.1	3.7	2.7	2.9	2.9
02	Curriy	modorato			23.1		8.1 8.1		33.5 33.5		92.0 91.4		6.5 6.5			4.1 4.0		0	3.0 3.7		2.0
				Bottom 31.0	23.1	23.1	8.1	8.1	33.5	33.5	91.4	91.4	6.5	6.5	6.5	3.8	3.9		3.3	3.5	L
				Surface 1.1	23.5 23.5	23.5	8.1 8.1	8.1	33.5 33.5	33.5	96.3 96.3	96.3	6.8 6.8	6.8		2.5 2.6	2.5		2.3	2.3	
G1	Sunny	Moderate	12:34	Middle 4.0	23.4	23.4	8.1	8.1	33.5	33.5	96.3	96.3	6.8	6.8	6.8	2.6	2.6	2.6	2.3	2.4	2.5
					23.4		8.1 8.2		33.5 33.5	22.5	96.3 95.5		6.8 6.7	0.7	6.7	2.6 2.6	2.0		2.4 2.8	2.0	1
				Bottom 7.0	23.2	23.2	8.2	8.2	33.5	33.5	95.0	95.3	6.7	6.7	6.7	2.7	2.6		2.7	2.8	
				Surface 1.0	23.2 23.3	23.3	8.2 8.2	8.2	33.4 33.4	33.4	97.9 98.1	98.0	6.9 6.9	6.9	<u> </u>	2.5 2.5	2.5		2.2	2.2	
G2	Sunny	Moderate	12:28	Middle 4.9	23.0	23.0	8.2	8.2	33.4	33.4	97.2	97.4	6.9	6.9	6.9	2.7	2.7	2.6	2.4	2.5	2.5
					23.0	00.4	8.2 8.1	0.4	33.4 33.5	22.5	97.6 93.7	02.0	6.9 6.6	0.0	0.0	2.7 2.6	2.0		2.6 3.1	2.0	1
				Bottom 8.9	23.1	23.1	8.1	8.1	33.5	33.5	93.4	93.6	6.6	6.6	6.6	2.5	2.6		2.7	2.9	
				Surface 1.1	23.4 23.4	23.4	<u>8.2</u> 8.2	8.2	33.5 33.5	33.5	99.1 98.4	98.8	7.0	6.9	6.9	2.2 2.2	2.2		2.2 2.5	2.4	
G3	Sunny	Moderate	12:36	Middle 4.0	23.3	23.3	8.2	8.2	33.5	33.5	96.9 97.1	97.0	6.8	6.8	0.9	2.5	2.4	2.5	1.8 1.7	1.8	1.9
	-			Bottom 7.0	23.3 23.1	23.1	8.2 8.2	8.2	33.5 33.5 33.5	33.5	97.1 95.4	95.2	6.8 6.7	6.7	6.7	2.4 2.9	2.9		1.6	1.6	
					23.1		8.2 8.1		33.5		94.9 96.1		6.7 6.7		0.7	3.0			1.5		<u> </u>
				Surface 1.1	23.5 23.4	23.5	8.1	8.1	33.4 33.4	33.4	96.0	96.1	6.7	6.7	6.7	2.5 2.6	2.5		3.6 3.7	3.7]
G4	Sunny	Moderate	12:41	Middle 3.9	23.2 23.3	23.3	8.2 8.2	8.2	33.5 33.5	33.5	95.1 95.4	95.3	6.7 6.7	6.7	0.1	3.1 2.9	3.0	3.4	3.5 3.2	3.4	3.2
				Bottom 7.1	23.1	23.1	8.2	8.2	33.5	33.5	93.5	93.4	6.6	6.6	6.6	4.4	4.6		2.7	2.7	
					23.1 23.4		8.2 8.1		33.5 33.4		93.2 95.7		6.6 6.7		0.0	4.7 2.0			2.6 3.2		<u> </u>
				Surface 1.0	23.4	23.4	8.1	8.1	33.4	33.4	96.1	95.9	6.8	6.7	6.8	2.0	2.0		3.6	3.4	
M1	Sunny	Moderate	12:31	Middle 3.1	23.3 23.4	23.3	8.2 8.2	8.2	33.4 33.4	33.4	96.6 96.5	96.6	6.8 6.8	6.8	0.0	2.1 2.1	2.1	2.0	2.6 2.8	2.7	2.8
				Bottom 5.0	23.2	23.2	8.2	8.2	33.5	33.5	96.0	95.8	6.8	6.8	6.8	2.0	2.0		2.4	2.3	
					23.2		<u>8.2</u> 8.2		33.5 33.4		95.6 100.7		6.7 7.1			1.9 2.6			2.2 3.9		<u> </u>
				Surface 1.1	23.1	23.1	8.2	8.2	33.4	33.4	100.4	100.6	7.1	7.1	7.1	2.6	2.6		3.4	3.7	1
M2	Sunny	Moderate	12:23	Middle 6.1	23.0 23.0	23.0	<u>8.2</u> 8.2	8.2	33.4 33.4	33.4	98.6 99.1	98.9	7.0	7.0		2.7 2.7	2.7	2.7	2.9 3.1	3.0	3.0
				Bottom 11.	23.0	23.0	8.2	8.2	33.5	33.5	96.4	96.0	6.8	6.8	6.8	2.7	2.7		2.3	2.5	
					23.0		<u>8.2</u> 8.1		33.5 33.5		95.6 95.4		6.8 6.7			2.7 2.7			2.6		<u> </u>
				Surface 1.1	23.4	23.4	8.2	8.1	33.5	33.5	95.6	95.5	6.7	6.7	6.7	2.6	2.6		1.5	1.6	1
M3	Sunny	Moderate	12:40	Middle 4.1	23.2 23.2	23.2	8.2 8.2	8.2	33.5 33.5	33.5	94.7 94.9	94.8	6.7 6.7	6.7		3.4 3.3	3.3	3.8	2.2	2.3	2.3
				Bottom 7.0	23.1	23.1	8.1	8.1	33.5	33.5	93.1	93.0	6.6	6.6	6.6	5.3	5.5		3.0	3.0	
				Surface 1.1	23.1 23.2	23.2	8.1 8.1	8.1	33.5 33.5	33.5	92.8 95.0	95.1	6.6 6.7	6.7		5.6 2.5	2.5		3.0 3.1	3.2	<u> </u>
				Sunace 1.1	23.2 23.2	23.2	8.1 8.2	0.1	33.5	33.0	95.2 94.7	95.1	6.7 6.7		6.7	2.5 2.6	2.0		3.2 2.8	3.2	
M4	Sunny	Moderate	12:21	Middle 5.1	23.2	23.2	8.2	8.2	33.5 33.5	33.5	94.7	94.9	6.7	6.7		2.5	2.5	2.6	2.6	2.7	2.8
				Bottom 9.0	23.1 23.1	23.1	8.1 8.1	8.1	33.5 33.5	33.5	94.1 93.9	94.0	6.6 6.6	6.6	6.6	2.8 2.8	2.8		2.6 2.4	2.5	
				Surface 1.0	22 E	23.5	8.1	8.1	33.5	33.5	97.8	97.8	6.9	6.9		2.0	2.1		1.6	1.8	
					23.5 23.0		8.1 8.2		33.5 33.5		97.8 95.0		6.9 6.7		6.8	2.1 3.6			1.9 2.4		4
M5	Sunny	Moderate	12:48	Middle 6.1	23.0	23.0	8.2	8.2	33.5	33.5	95.2	95.1	6.7	6.7		3.6	3.6	3.3	2.2	2.3	2.3
				Bottom 11.	23.0	23.0	<u>8.1</u> 8.1	8.1	33.5 33.5	33.5	93.7 93.4	93.6	6.6 6.6	6.6	6.6	4.2	4.2		2.6 2.8	2.7	
				Surface -	-		-	-	-	-	-	-	-	-		-			-	-	
•					- 23.3		- 8.2		- 33.5		- 96.7		- 6.8		6.8	- 2.9			- 2.1		
M6	Sunny	Moderate	12:44	Middle 2.2	23.3	23.3	8.2	8.2	33.5	33.5	96.7	96.7	6.8	6.8		2.9	2.9	2.9	2.2	2.2	2.2
				Bottom -	-					-		-	-		-		-]		-	-	
Remarks:	*DA: Depth-Ave	and a second			-	· · · · · · · · · · · · · · · · · · ·	-	1	-	1	-		-	1		-					·

Action and Limit Levels for Marine Water Quality on 9 November 2022 (Mid-Ebb Tide)

Parameter			
<u>(unit)</u>	<u>Depth</u>	Action Level	Limit Level
	Stations G1-G4, M1-M5	1	1
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
DO in mg/L (See Note 1 and 4)	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	Station M6	•	
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
	Stations G1-G4, M1-M5	•	
		<u>19.3 NTU</u>	<u>22.2 NTU</u>
Turbidity in NTU (See Note 2 and 4)	Bottom	or 120% of upstream control station's Turbidity at the same tide of the same day <u>C2: 4.7 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>C2: 5.1 NTU</u>
	Station M6	I	
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
	Stations G1-G4		
	Surface	<u>6.0 mg/L</u> or 120% of upstream control station's SS at the same tide of the same day	<u>6.9 mg/L</u> or 130% of upstream control station's SS at the same tide of the same day
	Stations M1-M5	<u>C2: 2.8 mg/L</u>	<u>C2: 3.1 mg/L</u>
	<u>Stations M11-M15</u>	<u>6.2 mg/L</u>	7.4 mg/I
SS in mg/L (See Note 2 and 4)	Surface	or 120% of upstream control station's SS at the same tide of the same day	<u>7.4 mg/L</u> or 130% of upstream control station's SS at the same tide of the same day
		<u>C2: 2.8 mg/L</u>	<u>C2: 3.1 mg/L</u>
	Stations G1-G4, M1-M5		
		<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
	Bottom	or 120% of upstream control station's SS at the same tide of the same day	or 130% of upstream control station's SS at the same tide of the same day
		<u>C2: 4.2 mg/L</u>	<u>C2: 4.6 mg/L</u>
	Station M6	ł	<u> </u>
	Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction Water Quality Monitoring Results on 09 November 2022

(Mid-Flood Tide)

Location	Weather	Sea	Sampling	Depth	(m)	Temperat	ture (°C)	-	н		ty ppt	DO Satur	ation (%)	Dissolved				bidity(NTU		-	ed Solids	,
Location	Condition	Condition**	Time	Deptil	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Average		Average		Average		Average		Average	DA*	Value	Average	DA*		Average	DA*
				Surface	1.0	23.3 23.3	23.3	8.2 8.2	8.2	33.4 33.4	33.4	99.9 99.8	99.9	7.0 7.0	7.0		2.2	2.2		7.0 6.7	6.9	1
C1	Sunny	Moderate	8:29	Middle	8.9	23.3	22.8	8.2	8.2	33.3	33.3	97.8	97.9	7.0	7.0	7.0	4.0	3.9	4.9	6.3	6.4	6.2
U1	Sunny	Woderate	0.29	wildule		22.8	-	8.2		33.3	33.3	98.0	97.9	7.0	7.0		3.8	3.9	4.9	6.5	0.4	0.2
				Bottom	17.0	23.0 22.9	22.9	8.2 8.2	8.2	33.5 33.4	33.4	94.4 93.5	94.0	6.7 6.6	6.7	6.7	8.9 8.2	8.6		5.0 5.4	5.2	1
				Surface	1.1	23.2	23.2	8.2	8.2	33.5	33.5	96.5	96.3	6.8	6.8		2.7	2.7		5.5	5.3	
	-					23.2 23.1		8.2 8.1		33.5		96.1 92.1		6.8 6.5		6.6	2.7 3.7			5.0 4.8		
C2	Sunny	Moderate	7:51	Middle	16.0	23.1	23.1	8.1	8.1	33.5 33.5	33.5	92.2	92.2	6.5	6.5		3.9	3.8	3.7	4.5	4.7	4.5
				Bottom	31.0	23.1 23.1	23.1	8.1 8.1	8.1	33.5 33.5	33.5	91.4	91.4	6.5	6.5	6.5	4.8	4.8		3.8	3.6	1
				Surface	1.1	23.1	23.4	8.1	8.2	33.5	33.5	91.3 98.8	98.6	6.5 6.9	6.9		4.8 2.4	2.4		3.4 5.8	6.0	
				Sunace	1.1	23.4	23.4	8.2	0.2	33.5	55.5	98.3	90.0	6.9	0.9	6.9	2.4	2.4		6.1	0.0	1
G1	Sunny	Moderate	8:10	Middle	4.1	23.4 23.4	23.4	8.2 8.2	8.2	33.5 33.5	33.5	96.8 97.0	96.9	6.8 6.8	6.8		2.5 2.5	2.5	2.4	5.0 4.7	4.9	5.0
				Bottom	6.9	23.3	23.2	8.2	8.2	33.5	33.5	96.1	95.8	6.8	6.7	6.7	2.4	2.4		4.1	4.3	1
						23.2 23.4	-	8.2 8.2		33.5 33.4		95.5 100.2		6.7 7.0	-		2.4			4.4 5.4		
				Surface	1.1	23.4	23.4	8.2	8.2	33.4	33.4	99.9	100.1	7.0	7.0	7.0	2.2	2.2		5.0	5.2	J
G2	Sunny	Moderate	8:03	Middle	4.9	23.0 23.1	23.1	8.2 8.2	8.2	33.4 33.4	33.4	97.9 98.4	98.2	6.9 7.0	6.9	7.0	2.7	2.7	2.5	6.8 7.2	7.0	7.0
				Bottom	9.0	23.1	23.1	8.2	8.1	33.5	33.5	96.4	94.9	6.8	6.7	6.7	2.5	2.5		8.6	8.8	1
				DOLLOITI	9.0	23.1	23.1	8.1	0.1	33.5	33.0	94.1	94.9	6.7	0.7	0.7	2.5	2.0		9.0	0.0	L
				Surface	1.1	23.4 23.4	23.4	8.2 8.2	8.2	33.5 33.5	33.5	96.8 96.8	96.8	6.8 6.8	6.8		2.2 2.3	2.2		5.0 4.7	4.9	1
G3	Sunny	Moderate	8:13	Middle	4.0	23.2	23.2	8.2	8.2	33.5	33.5	96.0	96.1	6.8	6.8	6.8	2.5	2.5	2.5	4.2	4.1	4.1
00	Curriy	modorato	0.10			23.2 23.1		8.2 8.2		33.5 33.5		96.1 95.2		6.8 6.7			2.5 2.8		2.0	3.9 3.4		
				Bottom	7.0	23.1	23.1	8.2	8.2	33.5	33.5	94.8	95.0	6.7	6.7	6.7	2.8	2.8		3.5	3.5	1
				Surface	1.0	23.4	23.4	8.1	8.1	33.5	33.5	95.0	95.2	6.7	6.7		2.5	2.5		5.2	5.3	1
G4	Sunny	Moderate	8:19	Middle	4.0	23.4 23.2	23.2	8.2 8.2	8.2	33.5 33.5	33.5	95.4 94.4	94.6	6.7 6.7	6.7	6.7	2.4 3.5	3.4	3.3	5.4 6.0	5.9	6.1
64	Sunny	Woderate	0.19	wildule	4.0	23.2	23.2	8.2	0.2	33.5	33.0	94.8	94.0	6.7	0.7		3.3	3.4	3.3	5.8	5.9	0.1
				Bottom	6.9	23.1 23.1	23.1	8.2 8.2	8.2	33.5 33.5	33.5	93.3 93.2	93.3	6.6 6.6	6.6	6.6	3.9 4.0	3.9		7.0	7.2	1
				Surface	1.2	23.4	23.4	8.1	8.1	33.2	33.1	95.3	95.5	6.7	6.7		1.9	1.9		6.0	5.8	
	-			-		23.4 23.4		8.1 8.2		33.1		95.7 96.0		6.7 6.8		6.7	2.0 2.0			5.6 6.9		1
M1	Sunny	Moderate	8:08	Middle	3.1	23.5	23.4	8.1	8.1	33.3 33.1	33.2	96.1	96.1	6.8	6.8		1.9	1.9	1.9	6.6	6.8	6.7
				Bottom	5.1	23.2 23.1	23.2	8.2 8.2	8.2	33.5 33.5	33.5	95.2	95.1	6.7	6.7	6.7	2.0 2.0	2.0		7.2	7.5	1
				Surface	1.0	23.1	23.1	8.2	8.2	33.4	33.4	95.0 99.1	99.2	6.7 7.0	7.0		2.0	2.6		5.2	5.4	
				Sunace	1.0	23.1	23.1	8.2	0.2	33.4	55.4	99.2	99.Z	7.0	7.0	7.0	2.6	2.0		5.6	J.4	1
M2	Sunny	Moderate	8:01	Middle	6.2	23.0 23.0	23.0	8.2 8.2	8.2	33.4 33.4	33.4	97.8 98.3	98.1	6.9 7.0	6.9		2.8 2.8	2.8	2.7	6.8 7.0	6.9	6.7
				Bottom	10.9	23.1	23.1	8.2	8.2	33.5	33.5	95.6	95.3	6.8	6.7	6.7	2.7	2.7		7.8	7.7	1
						23.1 23.5		8.2 8.1		33.5 33.5		94.9 98.2		6.7 6.9			2.7 2.5			7.6 4.5		
				Surface	1.0	23.4	23.4	8.1	8.1	33.5	33.5	97.6	97.9	6.9	6.9	6.8	2.6	2.5		4.4	4.5	1
M3	Sunny	Moderate	8:16	Middle	4.1	23.2 23.2	23.2	8.2 8.2	8.2	33.5 33.5	33.5	95.6 95.9	95.8	6.7 6.8	6.8	0.0	3.0 3.0	3.0	3.2	5.8 5.5	5.7	5.5
				Rottom	7.0	23.2	23.1	8.2	8.2	33.5	33.5	94.2	94.1	6.7	6.6	6.6	3.9	4.1		6.4	6.3	1
				Bottom	7.0	23.1	23.1	8.2	0.2	33.5	33.0	93.9	94.1	6.6	0.0	0.0	4.2	4.1		6.1	0.3	L
				Surface	1.0	23.2 23.2	23.2	8.2 8.2	8.2	33.5 33.5	33.5	97.8 97.3	97.6	6.9 6.9	6.9		2.3 2.3	2.3		6.1 6.6	6.4	1
M4	Sunny	Moderate	7:57	Middle	5.0	23.2	23.2	8.1	8.1	33.5	33.5	95.5	95.7	6.7	6.7	6.8	2.5	2.5	2.5	5.5	5.7	5.8
						23.2 23.1		8.2 8.1		33.5 33.5		95.8 94.4		6.8 6.7			2.4 2.7			5.8 5.4		
				Bottom	9.0	23.1	23.1	8.1	8.1	33.5	33.5	94.1	94.3	6.6	6.7	6.7	2.8	2.8		5.1	5.3	
				Surface	1.1	23.5	23.5	8.2 8.2	8.2	33.4 33.4	33.4	96.4	96.4	6.8	6.8		2.2 2.3	2.3		4.6	4.7	1
ME	Current	Madarata	0.00	Midalla	5.0	23.4 23.0	00.0	8.2	0.0	33.4	22.5	96.3 95.0	05.4	6.8 6.7	0.7	6.7	2.3	2.0	2.0	4.8 5.4	5.0	
M5	Sunny	Moderate	8:26	Middle	5.9	23.0	23.0	8.2	8.2	33.5	33.5	95.2	95.1	6.7	6.7		3.7	3.8	3.9	5.2	5.3	5.5
				Bottom	11.0	23.0 23.0	23.0	8.2 8.2	8.2	33.5 33.5	33.5	93.8 93.6	93.7	6.6 6.6	6.6	6.6	5.4 5.7	5.5		6.8 6.3	6.6	1
				Surface	-	-	-	-		-	-	-		-	-		-	-		-	-	
						- 23.3		- 8.2		- 33.5		-		- 6.8		6.8	- 8.0			-		ł
M6	Sunny	Moderate	8:21	Middle	2.2	23.3	23.3	8.2	8.2	33.5	33.5	96.8 96.8	96.8	6.8	6.8		8.0	8.0	2.9	5.4 5.1	5.3	5.3
				Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	l I
omorko	*DA: Dopth Ave		1			-		-	1	-		-		-			-			-		1

Remarks: *DA: Depth-Averaged

Action and Limit Levels for Marine Water Quality on 9 November 2022 (Mid-Flood Tide)

Parameter	<u>Depth</u>	Action Level	Limit Level
<u>(unit)</u>	_		
	Stations G1-G4, M1-M5		
DO in mg/L	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
(See Note 1 and 4)	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	Station M6		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
	Stations G1-G4, M1-M5		
		<u>19.3 NTU</u>	<u>22.2 NTU</u>
Turbidity in NTU (See Note 2 and 4)	Bottom	or 120% of upstream control station's Turbidity at the same tide of the same day	or 130% of upstream control station's Turbidity at the same tide of the same day
		<u>C1: 10.3 NTU</u>	<u>C1: 11.1 NTU</u>
	Station M6		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
	Stations G1-G4		
		<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Surface	station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
		<u>C1: 8.2 mg/L</u>	<u>C1: 8.9 mg/L</u>
	Stations M1-M5	1	
		<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
SS in mg/L	Surface	station's SS at the same tide of	station's SS at the same tide of
(See Note 2 and 4)		the same day	the same day
		<u>C1: 8.2 mg/L</u>	<u>C1: 8.9 mg/L</u>
	Stations G1-G4, M1-M5		
		<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Bottom	station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
		<u>C1: 6.2 mg/L</u>	<u>C1: 6.8 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.

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(Mid-Ebb Tide)

Location	Weather	Sea	Sampling	Depth (m)	Tempera	ture (°C)	p	н	Salini	ty ppt	DO Satura	ation (%)	Dissolve	d Oxygen	(mg/L)	Turbid	ity(NTU)	Suspen	ded Solids	(mg/L)
Location	Condition	Condition**	Time	Deptil (ill)	Value	Average		Average	Value	Average	Value	Average		Average	DA*		/erage	DA*	Value	Average	DA*
				Surface 1.1	23.5 23.5	23.5	8.2 8.2	8.2	33.3 33.3	33.3	98.1 98.0	98.1	6.9 6.9	6.9		2.5 2.5	2.5		1.2	1.3	
C1	Sunny	Moderate	13:00	Middle 8.9	23.1	23.1	8.2	8.2	33.3	33.3	96.5	96.6	6.8	6.8	6.9	4.7	4.7	4.4	1.7	1.7	1.6
01	Gunny	Woderate	15.00		23.1 23.1		8.2 8.2		33.3 33.3		96.6 96.3		6.8 6.8			4.7 6.0		7.7	1.6 1.9		1.0
				Bottom 17.1	23.1	23.1	8.2	8.2	33.3	33.3	96.3	96.3	6.8	6.8	6.8	6.0	6.0		1.7	1.8	
				Surface 1.1	23.5 23.5	23.5	8.2 8.2	8.2	33.3 33.3	33.3	98.8 98.9	98.9	6.9 7.0	6.9		2.8 2.8	2.8		2.3	2.2	
C2	Sunny	Moderate	12:16	Middle 16.0	23.2	23.2	8.2	8.2	33.3	33.3	96.1	96.3	6.8	6.8	6.9	3.0	3.0	3.1	1.8	1.7	1.7
02	Curriy	modorato	.20		23.2 23.4		8.2 8.1		33.3 33.4		96.5 92.1		6.8 6.5			3.0 3.4		0.1	1.6 1.2		1
				Bottom 31.0	23.4	23.4	8.1	8.1	33.4	33.4	91.6	91.9	6.4	6.5	6.5	3.3	3.3		1.2	1.2	L
				Surface 1.0	23.8 23.8	23.8	8.1 8.1	8.1	33.3 33.3	33.3	97.1 97.4	97.3	6.8 6.8	6.8		1.4 1.4	1.4		1.2	1.3	
G1	Sunny	Moderate	12:35	Middle 4.1	23.7	23.8	8.1	8.1	33.3	33.3	97.3	97.4	6.8	6.8	6.8	1.4	1.3	1.7	1.6	1.7	1.6
					23.8 23.5		<u>8.1</u> 8.1		33.3 33.4		97.4 95.1	047	6.8 6.7	0.0	0.0	1.3 2.4			1.7 1.7	4.0	1
				Bottom 7.1	23.4	23.5	8.1	8.1	33.4	33.4	94.2	94.7	6.6	6.6	6.6	2.3	2.4		1.9	1.8	
				Surface 1.1	23.8 23.8	23.8	8.1 8.1	8.1	33.3 33.3	33.3	94.5 94.7	94.6	6.6 6.6	6.6	<u> </u>	1.3 1.3	1.3		3.0 2.6	2.8	
G2	Sunny	Moderate	12:28	Middle 5.1	23.6	23.6	8.1	8.1	33.4	33.4	93.3	93.6	6.5	6.6	6.6	1.7	1.6	1.5	2.4	2.4	2.3
					23.6 23.5	22.5	8.1 8.1	0.4	33.4 33.4	22.4	93.8 91.4	04.2	6.6 6.4	6.4	6.4	1.6 1.7			2.3	4.0	1
				Bottom 9.0	23.5	23.5	8.1	8.1	33.4	33.4	91.2	91.3	6.4	6.4	6.4	1.7	1.7		1.9	1.9	
				Surface 1.0	23.8 23.8	23.8	<u>8.2</u> 8.2	8.2	33.3 33.3	33.3	99.7 99.3	99.5	7.0	6.9	6.8	1.4	1.4		2.1 2.4	2.3	
G3	Sunny	Moderate	12:36	Middle 4.0	23.5	23.5	8.1	8.1	33.4	33.4	95.1	95.6	6.7 6.7	6.7	0.0	1.9	1.9	1.8	1.9 1.7	1.8	1.8
	-			Bottom 7.1	23.5 23.4	23.4	<u>8.1</u> 8.1	8.1	33.4 33.4 33.4	33.4	96.1 93.6	93.3	6.6	6.6	6.6	1.8 2.2	2.2		1.7	1.4	
					23.4		8.1 8.1		33.4		93.0		6.5 6.7		0.0	2.2			1.3		<u> </u>
				Surface 1.1	23.8 23.7	23.7	8.1	8.1	33.3 33.3	33.3	96.3 96.5	96.4	6.7	6.7	6.7	1.9	1.9		2.8 2.6	2.7]
G4	Sunny	Moderate	12:43	Middle 4.0	23.5 23.6	23.5	8.1 8.1	8.1	33.3 33.3	33.3	95.7 96.1	95.9	6.7 6.7	6.7	0.1	2.1 1.9	2.0	2.2	2.1 2.3	2.2	2.2
				Bottom 7.0	23.4	23.4	8.1	8.1	33.4	33.4	93.9	93.7	6.6	6.6	6.6	2.8	2.8		1.7	1.8	
					23.4 23.8		<u>8.1</u> 8.1		33.4 33.0		93.4 98.2		6.6 6.9		0.0	2.8			1.9		<u> </u>
				Surface 1.0	23.9	23.8	8.1	8.1	33.0	33.0	97.7	98.0	6.8	6.8	6.8	1.1	1.1		1.6	1.7]
M1	Sunny	Moderate	12:30	Middle 3.0	23.5 23.6	23.6	8.1 8.1	8.1	33.3 33.2	33.3	94.6 95.3	95.0	6.6 6.7	6.7	0.0	1.7 1.8	1.8	1.9	2.1 2.3	2.2	2.2
				Bottom 5.0	23.4	23.4	8.1	8.1	33.4	33.4	93.5	93.3	6.6	6.6	6.6	2.9	2.9		3.0	2.8	
					23.4 23.7		<u>8.1</u> 8.1		33.4 33.3		93.1 100.2		6.5 7.0			2.9			2.5		<u> </u>
				Surface 1.0	23.7	23.7	8.1	8.1	33.3	33.3	99.7	100.0	7.0	7.0	6.9	2.1	2.1		1.8	1.8	1
M2	Sunny	Moderate	12:23	Middle 6.0	23.4 23.5	23.4	<u>8.1</u> 8.2	8.1	33.3 33.3	33.3	97.4 98.4	97.9	6.9 6.9	6.9		2.3 2.1	2.2	2.2	2.1 2.3	2.2	2.2
				Bottom 11.0	23.4	23.4	8.1	8.1	33.4	33.4	94.1	93.2	6.6	6.5	6.5	2.2	2.1		2.5	2.6	
				Surface 4.0	23.4 23.8	23.8	<u>8.1</u> 8.1	8.1	33.4 33.3	33.3	92.2 97.2	97.4	6.5 6.8	<u> </u>		2.0	1.0		2.7	4.0	<u> </u>
				Surface 1.0	23.8		8.1	0.1	33.3 33.3	33.3	97.5	97.4	6.8	6.8	6.8	1.9	1.9		1.8	1.8	1
M3	Sunny	Moderate	12:40	Middle 4.1	23.5 23.6	23.5	8.1 8.1	8.1	33.4 33.3	33.3	97.0 97.5	97.3	6.8 6.8	6.8		1.4 1.4	1.4	1.7	2.2	2.3	2.2
				Bottom 7.0	23.4 23.4	23.4	8.1 8.1	8.1	33.4 33.4	33.4	94.3 94.0	94.2	6.6 6.6	6.6	6.6	1.8 1.9	1.9		2.7 2.5	2.6	
				Surface 1.0	23.4	23.4	8.2	8.2	33.3	33.3	99.3	99.5	7.0	7.0		2.1	2.1		1.3	1.4	
					23.4 23.3		8.2 8.2		33.3 33.3		99.7 98.5		7.0		7.0	2.1			1.4 1.8		4
M4	Sunny	Moderate	12:20	Middle 5.1	23.4	23.3	8.2	8.2	33.3	33.3	99.2	98.9	7.0	7.0		2.3	2.2	2.2	1.9	1.9	1.8
				Bottom 9.2	23.3 23.4	23.3	8.1 8.1	8.1	33.4 33.4	33.4	95.3 94.9	95.1	6.7 6.7	6.7	6.7	2.2 2.3	2.2		2.2	2.3	
				Surface 1.0	23.7	23.6	8.1	8.1	33.4	33.4	94.7	94.5	6.6	6.6		1.6	1.6		3.1	3.0	
					23.6 23.4		8.1 8.1		33.4 33.4		94.2 92.9		6.6 6.5		6.6	1.7 2.5			2.8		1
M5	Sunny	Moderate	12:51	Middle 6.0	23.3	23.3	8.1	8.1	33.4	33.4	92.7	92.8	6.5	6.5		2.5	2.5	2.6	2.6	2.5	2.5
				Bottom 11.0	23.4 23.4	23.4	<u>8.1</u> 8.1	8.1	33.4 33.4	33.4	91.5 91.6	91.6	6.4 6.4	6.4	6.4	3.5 3.6	3.6		2.1	2.1	
				Surface -	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
1/2		M-4 - 1	10.17		- 23.5		- 8.1		- 33.4		- 95.1	05 1	- 6.7	0.7	6.7	- 2.1			- 2.4		
M6	Sunny	Moderate	12:47	Middle 2.0	23.5	23.5	8.1	8.1	33.4	33.4	95.1	95.1	6.7	6.7		2.0	2.0	2.0	2.1	2.3	2.3
				Bottom -	-		-	- 1	-	-	-	-	-	- 1	-	-	-		-	-	
Remarks:	*DA: Depth-Ave				+	· · · · ·		1	1	1	,			1		I I			- 1		•

Action and Limit Levels for Marine Water Quality on 11 November 2022 (Mid-Ebb Tide)

Parameter			
<u>(unit)</u>	<u>Depth</u>	Action Level	Limit Level
	Stations G1-G4, M1-M5	1	1
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
DO in mg/L (See Note 1 and 4)	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	Station M6	•	
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
	Stations G1-G4, M1-M5	-	-
		<u>19.3 NTU</u>	<u>22.2 NTU</u>
Turbidity in NTU (See Note 2 and 4)	Bottom	or 120% of upstream control station's Turbidity at the same tide of the same day <u>C2: 4.0 NTU</u>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>C2: 4.3 NTU</u>
	Station M6		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
	Stations G1-G4		
	Surface	<u>6.0 mg/L</u> or 120% of upstream control station's SS at the same tide of the same day <u>C2: 2.6 mg/L</u>	<u>6.9 mg/L</u> or 130% of upstream control station's SS at the same tide of the same day <u>C2: 2.9 mg/L</u>
	Stations M1-M5	<u> </u>	<u> </u>
		6.2 mg/L	7.4 mg/L
SS in mg/L (See Note 2 and 4)	Surface	or 120% of upstream control station's SS at the same tide of the same day	or 130% of upstream control station's SS at the same tide of the same day
		<u>C2: 2.6 mg/L</u>	<u>C2: 2.9 mg/L</u>
	Stations G1-G4, M1-M5	1	
		<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
	Bottom	or 120% of upstream control station's SS at the same tide of the same day	or 130% of upstream control station's SS at the same tide of the same day
		<u>C2: 1.4 mg/L</u>	<u>C2: 1.6 mg/L</u>
	Station M6	ļ	<u> </u>
	Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
 All the figures given in the table are used for reference only and EPD may amend the figures whenever it is

3. All the figures given in the table are used for reference only and EPD may amend the figures when considered as necessary.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction Water Quality Monitoring Results on 11 November 2022

(Mid-Flood Tide)

Location	Weather	Sea	Sampling	Depth	(m)	Temperat		р			ty ppt	DO Satura	. ,	Dissolve				bidity(NTU		-	ed Solids	,
	Condition	Condition**	Time	Dopti	····,		Average		Average		Average		Average		Average	DA*	Value	Average	DA*		Average	DA*
				Surface	1.1	23.5 23.5	23.5	8.1 8.1	8.1	33.4 33.4	33.4	99.2 99.0	99.1	7.0 6.9	7.0		2.6	2.6		1.6 1.8	1.7	
C1	Sunny	Moderate	8:56	Middle	9.0	23.1	23.1	8.2	8.2	33.3	33.3	96.3	96.4	6.8	6.8	6.9	5.1	5.1	4.7	2.2	2.2	2.2
0.	Curriy	modorato	0.00			23.1 23.1		8.2 8.2		33.3 33.3		96.4 96.2		6.8 6.8			5.0 6.6	-		2.1 2.7		
				Bottom	16.9	23.1	23.1	8.2	8.2	33.3	33.3	96.2	96.2	6.8	6.8	6.8	6.5	6.5		2.5	2.6	
				Surface	1.0	23.4 23.4	23.4	8.2 8.2	8.2	33.3 33.3	33.3	100.4	100.4	7.1 7.1	7.1		2.0	2.0		2.6 2.9	2.8	
C2	Sunny	Moderate	8:11	Middle	15.9	23.3	23.3	8.1	8.1	33.3	33.3	95.6	95.8	6.7	6.7	6.9	2.4	2.4	2.4	2.3	2.4	2.4
	,					23.3 23.4	23.4	8.2 8.1		33.3 33.4		95.9 92.2		6.8 6.5	6.5	6.5	2.4	2.8		2.5 2.0	2.1	-
				Bottom	31.0	23.4 23.8	23.4	8.1 8.1	8.1	33.4 33.4	33.4	91.9	92.1	6.5	6.5	0.0	2.8 1.7	2.8		2.1	2.1	
				Surface	1.0	23.8	23.8	8.1	8.1	33.2 33.3	33.3	96.3 96.5	96.4	6.7 6.7	6.7	6.8	1.6	1.6		<0.1 <0.1	<0.1	
G1	Sunny	Moderate	8:31	Middle	4.1	23.7 23.7	23.7	8.1 8.1	8.1	33.3 33.3	33.3	96.9 97.2	97.1	6.8 6.8	6.8	0.0	1.4 1.4	1.4	1.9	1.6 1.8	1.7	1.3
				Bottom	7.0	23.4	23.4	8.1	8.1	33.4	33.4	93.9	93.7	6.6	6.6	6.6	2.8	2.7		2.2	2.2	
						23.4 23.8		8.1 8.1		33.4 33.3		93.5 98.6		6.6 6.9		0.0	2.7			2.1		
				Surface	1.0	23.8	23.8	8.1	8.1	33.3	33.3	93.5	96.1	6.5	6.7	6.6	1.8	1.7		1.4	1.5	
G2	Sunny	Moderate	8:24	Middle	4.9	23.5 23.6	23.6	8.1 8.1	8.1	33.4 33.4	33.4	93.3 93.5	93.4	6.5 6.6	6.5		1.8	1.9	1.8	1.8	1.8	1.9
				Bottom	9.1	23.5	23.5	8.1	8.1	33.4	33.4	91.9	91.8	6.5	6.4	6.4	1.6	1.7		2.6	2.5	
				Surface	1.1	23.5 23.8	23.8	8.1 8.1	8.1	33.4 33.3	33.3	91.6 97.4	97.5	6.4 6.8	6.8		1.7	1.3		2.3 1.6	1.6	
						23.8 23.7		8.1 8.1		33.3 33.3		97.5 97.1		6.8 6.8		6.8	1.3 1.3			1.6 1.6		-
G3	Sunny	Moderate	8:35	Middle	4.0	23.7	23.7	8.1	8.1	33.3	33.3	97.1	97.3	6.8	6.8		1.3	1.4	1.8	1.8	1.7	1.7
				Bottom	7.0	23.4 23.4	23.4	8.1 8.1	8.1	33.4 33.4	33.4	93.2 92.6	92.9	6.5 6.5	6.5	6.5	2.7	2.8		1.7 1.9	1.8	
				Surface	1.0	23.7	23.7	8.1	8.1	33.3	33.3	95.1	95.4	6.7	6.7		1.9	1.8		1.3	1.4	
G4	Suppy	Moderate	8:41			23.7 23.4	23.5	8.1 8.1	8.1	33.3 33.4	33.4	95.6 94.4	94.7	6.7 6.6	6.6	6.7	1.8 2.2	2.2	2.4	1.4 1.6	1.5	1.6
64	Sunny	woderate	0.41	Middle	3.9	23.5		8.1		33.4		94.9		6.7			2.2		2.4	1.4		1.6
				Bottom	7.0	23.4 23.4	23.4	8.1 8.1	8.1	33.4 33.4	33.4	92.3 92.2	92.3	6.5 6.5	6.5	6.5	3.0 3.0	3.0		1.9 1.8	1.9	
				Surface	1.1	23.7 23.8	23.8	8.1 8.1	8.1	33.1 33.0	33.1	93.6 94.1	93.9	6.6 6.6	6.6		1.7	1.5		1.8 1.9	1.9	
M1	Sunny	Moderate	8:29	Middle	3.2	23.5	23.6	8.1	8.1	33.4	33.3	93.4	93.7	6.6	6.6	6.6	1.9	1.7	2.0	2.2	2.2	2.2
						23.6 23.4		8.1 8.1		33.2 33.4		94.0 92.6		6.6 6.5		0.5	1.5 2.6			2.1 2.4		
				Bottom	5.2	23.4	23.4	8.1	8.1	33.4 33.3	33.4	92.4	92.5	6.5	6.5	6.5	2.8	2.7		2.6	2.5	
				Surface	1.1	23.6 23.7	23.7	8.1 8.1	8.1	33.3	33.3	97.7 97.8	97.8	6.8 6.8	6.8	6.9	2.1 2.1	2.1		2.4 2.6	2.5	
M2	Sunny	Moderate	8:21	Middle	5.9	23.4 23.5	23.5	8.2 8.2	8.2	33.3 33.3	33.3	98.0 98.1	98.1	6.9 6.9	6.9	0.9	2.3 2.3	2.3	2.1	2.2 2.3	2.3	2.2
				Bottom	11.0	23.4	23.4	8.1	8.1	33.4	33.4	93.7	93.4	6.6	6.6	6.6	2.0	2.0		1.7	1.8	
						23.4 23.8		8.1 8.1		33.4 33.3		93.0 97.9		6.5 6.8		0.0	1.9 3.0			1.9 1.4		
				Surface	1.1	23.8	23.8	8.1	8.1	33.3	33.3	97.9	97.9	6.8	6.8	6.8	2.7	2.8		1.3	1.4	
M3	Sunny	Moderate	8:37	Middle	4.1	23.5 23.6	23.5	8.1 8.1	8.1	33.3 33.3	33.3	97.3 97.6	97.5	6.8 6.8	6.8		1.3	1.3	1.9	1.5	1.6	1.6
				Bottom	7.1	23.4	23.4	8.1	8.1	33.4	33.4	94.9	94.7	6.7	6.6	6.6	1.6	1.7		1.9	1.9	
				Surface	1.0	23.4 23.5	23.5	8.1 8.2	8.2	33.4 33.3	33.3	94.4 102.4	102.3	6.6 7.2	7.2		1.7	2.2		1.8 2.6	2.8	
						23.5 23.3		8.2 8.2		33.3 33.3		102.2 96.1		7.2 6.8		7.0	2.2			2.9 2.3		-
M4	Sunny	Moderate	8:16	Middle	5.1	23.3	23.3	8.2	8.2	33.3	33.3	96.1	96.3	6.8	6.8		2.5	2.5	2.3	2.3	2.4	2.4
				Bottom	9.1	23.4 23.4	23.4	8.1 8.1	8.1	33.4 33.4	33.4	95.1 94.7	94.9	6.7 6.7	6.7	6.7	2.3	2.3		2.1 2.2	2.2	
				Surface	1.0	23.7	23.7	8.1	8.1	33.4	33.4	94.7	94.5	6.6	6.6		1.7	1.7		2.1	2.3	
145	Current	Madaaata	0.40			23.7 23.4		8.1 8.1		33.4 33.4		94.2 92.9		6.6 6.5		6.6	1.8 2.7		0.7	2.4 2.5		25
M5	Sunny	Moderate	8:48	Middle	6.0	23.3	23.4	8.1	8.1	33.4	33.4	92.7	92.8	6.5	6.5		2.6	2.6	2.7	2.4	2.5	2.5
				Bottom	11.1	23.4 23.4	23.4	8.1 8.1	8.1	33.4 33.4	33.4	91.5 91.6	91.6	6.4 6.4	6.4	6.4	3.6 3.7	3.7		2.6 2.7	2.7	
				Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
M6	Sunny	Moderate	8:44	Middle	1.9	23.5	23.5	8.1	8.1	33.4	33.4	94.5	94.6	6.6	6.6	6.6	8.0	8.0	2.1	3.0	3.1	3.1
wie	Conny	moderate	0.77		1.0	23.5	20.0	8.1	0.1	33.4	00.4	94.7	04.0	6.7	0.0		8.0	0.0	2.1	3.2	0.1	
				Bottom		-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	

Remarks: *DA: Depth-Averaged

Action and Limit Levels for Marine Water Quality on 11 November 2022 (Mid-Flood Tide)

Parameter	<u>Depth</u>	Action Level	Limit Level
<u>(unit)</u>	_	Action Level	Linit Level
	Stations G1-G4, M1-M5		
DO in mg/L	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
(See Note 1 and 4)	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
	Stations G1-G4, M1-M5		
		<u>19.3 NTU</u>	<u>22.2 NTU</u>
Turbidity in NTU (See Note 2 and 4)	Bottom	or 120% of upstream control station's Turbidity at the same tide of the same day	or 130% of upstream control station's Turbidity at the same tide of the same day
		<u>C1: 7.8 NTU</u>	<u>C1: 8.5 NTU</u>
	Station M6		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
	Stations G1-G4		
		<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Surface	station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
		<u>C1: 2.0 mg/L</u>	<u>C1: 2.2 mg/L</u>
	Stations M1-M5		
		<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Surface	station's SS at the same tide of	station's SS at the same tide of
SS in mg/L (See Note 2 and 4)		the same day	the same day
(See Note 2 and 4)		<u>C1: 2.0 mg/L</u>	<u>C1: 2.2 mg/L</u>
	Stations G1-G4, M1-M5		·
		<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Bottom	station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
		<u>C1: 3.1 mg/L</u>	<u>C1: 3.4 mg/L</u>
	Station M6		
	Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction Water Quality Monitoring Results on 14 November 2022

(Mid-Flood Tide)

Location	Weather	Sea	Sampling	Depth	(m)	Temperat	ure (°C)	р	н	Salini	ty ppt	DO Satura	ation (%)	Dissolved	Oxygen	(mg/L)		bidity(NTU	J)		ed Solids	
Location	Condition	Condition**	Time	Dehru	(,		Average		Average	Value	Average		Average		Average	DA*	Value	Average	DA*		Average	DA*
				Surface	5.1	23.8	23.6	8.1	8.1	33.3	33.3	93.7 94.0	93.9	6.5	6.6		1.6 1.9	1.7		2.4	2.3	
01	0	Madamata	40.07	Malala	0.4	23.4 23.8	00.0	8.1 8.1	0.4	33.3 33.3	00.0	94.0	04.0	6.6 6.5	0.0	6.6	1.9	0.4		2.2	0.0	
C1	Sunny	Moderate	13:27	Middle	9.1	23.3	23.6	8.2	8.1	33.3	33.3	96.2	94.8	6.8	6.6		2.6	2.1	2.0	3.0	2.8	2.9
				Bottom	13.0	23.5 23.3	23.4	8.1 8.2	8.1	33.3 33.3	33.3	93.5 96.4	95.0	6.6 6.8	6.7	6.7	1.8 2.6	2.2		3.3 3.7	3.5	
				Surface	1.1	23.6	23.6	8.1	8.1	33.3	33.3	92.1	92.1	6.5	6.4		2.0	2.0		4.4	4.6	
				Sunace	1.1	23.6	23.0	8.1	0.1	33.3	33.3	92.0	92.1	6.4	0.4	6.4	2.0	2.0		4.8	4.0	
C2	Sunny	Moderate	12:57	Middle	15.9	23.6 23.6	23.6	8.1 8.1	8.1	33.3 33.3	33.3	91.4 91.2	91.3	6.4 6.4	6.4		1.2 1.3	1.3	1.8	5.2 5.0	5.1	5.2
				Bottom	31.0	23.4	23.4	8.1	8.1	33.3	33.3	91.9	92.0	6.5	6.5	6.5	2.2	2.2		5.9	5.8	
				Dottom		23.4		8.1		33.3		92.1		6.5		0.5	2.2			5.6		
				Surface	1.0	23.9 23.9	23.9	8.1 8.1	8.1	33.3 33.3	33.3	93.9 93.4	93.7	6.5 6.5	6.5	0.5	1.2 1.1	1.1		3.2 3.0	3.1	
G1	Sunny	Moderate	13:12	Middle	4.2	23.9	23.9	8.1	8.1	33.3	33.3	92.0	92.1	6.4	6.4	6.5	1.3	1.3	1.2	3.5	3.4	3.4
01	Canny	modorato	10.12			23.9 23.9		8.1 8.1	-	33.3		92.2 91.7		6.4 6.4	-		1.2 1.3			3.3 3.7	-	0.1
				Bottom	7.0	23.9	23.8	8.1	8.1	33.3 33.3	33.3	91.7	91.7	6.4	6.4	6.4	1.3	1.3		3.9	3.8	
				Surface	1.1	23.8	23.8	8.1	8.1	33.3	33.3	93.7	93.2	6.5	6.5		1.6	1.6		3.4	3.6	
						23.8 23.8		8.1 8.1		33.3 33.3		92.7 91.2		6.5 6.4		6.4	1.6 1.2			3.7 4.5		
G2	Sunny	Moderate	13:06	Middle	5.0	23.8	23.8	8.1	8.1	33.3	33.3	91.2	91.2	6.4	6.4		1.2	1.2	1.3	4.2	4.4	4.3
				Bottom	9.1	23.8	23.8	8.1	8.1	33.3	33.3	91.0	91.0	6.4	6.4	6.4	1.2	1.1		5.2	5.0	
						23.8 23.8		8.1 8.1		33.3 33.3		90.9 95.6		6.4 6.7	-	-	1.1 1.0			4.8		
				Surface	1.0	23.8	23.8	8.1	8.1	33.3	33.3	95.1	95.4	6.6	6.7	6.6	1.0	1.0		2.4	2.3	
G3	Sunny	Moderate	13:14	Middle	4.2	23.7	23.7	8.1	8.1	33.3	33.3	93.1	93.4	6.5	6.5	0.0	1.0	1.0	1.1	2.6	2.8	2.9
						23.8 23.7		8.1 8.1		33.3 33.3		93.6 92.2		6.5 6.5			1.0 1.2			3.0 3.7		
				Bottom	7.0	23.7	23.7	8.1	8.1	33.3	33.3	91.8	92.0	6.4	6.4	6.4	1.2	1.2		3.4	3.6	
				Surface	1.0	24.0	24.0	8.1	8.1	33.2	33.2	94.8	94.5	6.6	6.6		1.2	1.2		4.7 4.3	4.5	
G4	Suppy	Moderate	13:18	Middle	4.2	24.0 23.8	23.8	8.1 8.1	8.1	33.2 33.3	33.3	94.1 92.4	92.8	6.6 6.5	6.5	6.5	1.2 1.6	1.5	1.4	3.4	3.6	3.7
G4	Sunny	Moderate	13:18	winddie	4.2	23.9	23.8	8.1	8.1	33.3	33.3	93.1	92.8	6.5	6.5		1.4	1.5	1.4	3.8	3.0	3.7
				Bottom	7.1	23.7 23.6	23.6	8.1 8.1	8.1	33.3 33.3	33.3	91.8 91.7	91.8	6.4 6.4	6.4	6.4	1.5 1.6	1.6		2.9 3.2	3.1	
				Surface	1.1	23.9	23.9	8.1	8.1	33.2	33.2	94.1	93.6	6.6	6.5		0.5	0.5		2.7	2.6	
				Ounace	1.1	24.0	20.0	8.1	0.1	33.2	35.2	93.1	33.0	6.5	0.5	6.5	0.5	0.0		2.5	2.0	
M1	Sunny	Moderate	13:09	Middle	3.1	23.9 23.9	23.9	8.1 8.1	8.1	33.3 33.3	33.3	91.8 92.0	91.9	6.4 6.4	6.4		0.7	0.7	0.9	2.1 2.3	2.2	2.2
				Bottom	5.1	23.7	23.7	8.1	8.1	33.3	33.3	91.4	91.2	6.4	6.4	6.4	1.4	1.4		1.6	1.8	
						23.7 23.7		8.1 8.1		33.3		91.0 92.2		6.4 6.5		0.4	1.4 1.5			2.0 4.2		
				Surface	1.2	23.7	23.7	8.1	8.1	33.3 33.3	33.3	92.2	92.2	6.4	6.4	6.4	1.5	1.4		3.8	4.0	
M2	Sunny	Moderate	13:04	Middle	6.0	23.7	23.7	8.1	8.1	33.3	33.3	91.0	91.1	6.4	6.4	6.4	1.4	1.4	1.6	2.8	2.9	3.0
						23.7 23.7		8.1 8.1		33.3 33.3		91.1 90.5		6.4 6.3			1.4 2.0			3.0		
				Bottom	10.9	23.6	23.6	8.1	8.1	33.3	33.3	90.1	90.3	6.3	6.3	6.3	2.0	2.0		2.3	2.2	
				Surface	1.1	23.9	23.9	8.1	8.1	33.2	33.2	94.5	94.1	6.6	6.6		1.9	1.9		2.7	2.5	
	0	Madamata	10.10	Malala		23.9 23.7	00.7	8.1 8.1	0.4	33.2 33.3	00.0	93.6 92.1	00.0	6.5 6.4	0.4	6.5	1.9 1.6	47	4.0	2.3 3.8	0.0	
M3	Sunny	Moderate	13:16	Middle	4.1	23.7	23.7	8.1	8.1	33.3	33.3	92.2	92.2	6.5	6.4		1.7	1.7	1.6	3.4	3.6	3.5
				Bottom	7.0	23.7 23.6	23.6	8.1 8.1	8.1	33.3 33.3	33.3	91.6 91.5	91.6	6.4 6.4	6.4	6.4	1.2 1.3	1.3		4.2	4.5	
				Curfage	1.0	23.6	23.6	8.1	8.1	33.3	33.3	93.2	02.0	6.5	0.5		2.6	2.6		4.0	4.0	
				Surface	1.0	23.7	23.0	8.1	8.1	33.3	33.3	92.3	92.8	6.5	6.5	6.5	2.6	2.0		4.4	4.6	
M4	Sunny	Moderate	13:00	Middle	5.1	23.6 23.6	23.6	8.1 8.1	8.1	33.3 33.3	33.3	91.4 91.4	91.4	6.4 6.4	6.4		2.8 2.6	2.7	2.7	4.0 3.6	3.8	3.6
				Bottom	9.1	23.5	23.5	8.1	8.1	33.3	33.3	91.3	91.3	6.4	6.4	6.4	2.8	2.8		2.7	2.6	
				Dottom	3.1	23.5	20.0	8.1	0.1	33.3	55.5	91.3	31.5	6.4	0.4	0.4	2.8	2.0		2.4	2.0	
				Surface	1.1	23.8 23.8	23.8	8.1 8.1	8.1	33.3 33.3	33.3	95.0 94.4	94.7	6.6 6.6	6.6		2.0	2.0		5.8 5.5	5.7	
M5	Sunny	Moderate	13:24	Middle	6.0	23.6	23.7	8.1	8.1	33.3	33.3	91.3	91.4	6.4	6.4	6.5	2.2	2.1	2.1	5.0	4.8	4.6
	<i>ca</i> ,	incustato				23.7 23.5		8.1 8.1		33.3 33.3		91.4 91.9		6.4 6.5			2.1 2.3			4.6		
				Bottom	11.0	23.5	23.5	8.1	8.1	33.3	33.3	93.2	92.6	6.6	6.5	6.5	2.3	2.3		3.4	3.2	
				Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
	_					- 23.7		- 8.1		- 33.3		- 94.4		- 6.6		6.6	- 8.0			- 2.4		
M6	Sunny	Moderate	13:21	Middle	2.0	23.7	23.7	8.1	8.1	33.3	33.3	94.0	94.2	6.6	6.6		8.0	8.0	1.6	2.8	2.6	2.6
		1		Bottom		-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
	I	1	1			-		-		-		-		-			-			-		

Remarks: *DA: Depth-Averaged

Action and Limit Levels for Marine Water Quality on 14 November 2022 (Mid-Flood Tide)

Parameter	Donth	Action Level	Limit Level
<u>(unit)</u>	<u>Depth</u>	Action Level	Limit Level
	Stations G1-G4, M1-M5		
DO in mg/L	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
(See Note 1 and 4)	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
	Stations G1-G4, M1-M5	-	
		<u>19.3 NTU</u>	<u>22.2 NTU</u>
Turbidity in NTU (See Note 2 and 4)	Bottom	or 120% of upstream control station's Turbidity at the same tide of the same day	or 130% of upstream control station's Turbidity at the same tide of the same day
		<u>C1: 2.6 NTU</u>	<u>C1: 2.9 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
	Stations G1-G4		
		<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Surface	station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
		<u>C1: 2.8 mg/L</u>	<u>C1: 3.0 mg/L</u>
	Stations M1-M5		
		<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Surface	station's SS at the same tide of	station's SS at the same tide of
SS in mg/L		the same day	the same day
(See Note 2 and 4)		<u>C1: 2.8 mg/L</u>	<u>C1: 3.0 mg/L</u>
	Stations G1-G4, M1-M5		
		<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Bottom	station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
		<u>C1: 4.2 mg/L</u>	<u>C1: 4.6 mg/L</u>
	Station M6		

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction Water Quality Monitoring Results on 16 November 2022

(Mid-Flood Tide)

Location	Weather	Sea	Sampling	Depth	(m)	Temperat	ure (°C)	pH		Salinit		DO Satura	ation (%)		d Oxygen	(mg/L)		bidity(NTI	U)	-	ded Solids	
Location	Condition	Condition**	Time	Depth	(111)		Average		Average		Average		Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
				Surface	1.0	23.6	23.6	8.2 8.2	8.2	33.2 33.2	33.2	99.6 99.1	99.4	7.0 6.9	7.0		1.1	1.1		2.2	2.2	
61	Current	Moderate	13:55	Midello	0.0	23.6 23.5	22.5	8.2	8.2	33.2	22.2	99.1	00.0	6.8	6.8	6.9	1.1 3.1	2.0	2.9	2.1 2.5	2.6	20
C1	Sunny	woderate	13:55	Middle	9.0	23.5	23.5	8.2	8.2	33.3	33.3	97.1	96.8	6.8	6.8		2.5	2.8	2.9	2.7	2.6	2.6
				Bottom	17.0	23.4 23.4	23.4	8.2 8.2	8.2	33.3 33.3	33.3	96.0 96.7	96.4	6.8 6.8	6.8	6.8	5.2 4.7	4.9		2.9 3.1	3.0	
				Surface	1.0	23.7	23.7	8.0	8.1	33.2	33.2	97.3	97.4	6.8	6.8		1.2	1.3		3.1	2.9	
						23.6		8.1 8.1		33.2		97.4 95.2		6.8 6.7		6.8	1.4			2.7		-
C2	Sunny	Moderate	13:00	Middle	16.0	23.6 23.6	23.6	8.1	8.1	33.3 33.3	33.3	96.5	95.9	6.8	6.7		1.4	1.3	1.6	2.3	2.2	2.2
				Bottom	31.0	23.0	23.1	8.1	8.1	33.2 33.3	33.2	97.3	96.4	6.8	6.9	6.9	3.4	2.2	Ī	1.4	1.5	1
				Curfore	4.4	23.1 23.6	22.0	8.1 8.1	0.4	33.3	22.2	95.5 96.6	00.7	7.0 6.8	6.0		1.0 2.0	2.4		1.5 2.5	25	
				Surface	1.1	23.6	23.6	8.1	8.1	33.2	33.2	96.7	96.7	6.8	6.8	6.8	2.1	2.1		2.4	2.5	-
G1	Sunny	Moderate	13:33	Middle	4.0	23.6 23.5	23.5	8.1 8.1	8.1	33.2 33.2	33.2	96.4 96.4	96.4	6.8 6.8	6.8		2.4	2.2	2.0	2.0 2.3	2.2	2.2
				Bottom	7.0	23.5	23.5	8.1	8.1	33.2	33.2	95.6	95.8	6.7	6.7	6.7	2.0	1.8	1	1.9	1.9	1
						23.5 23.6		8.1 8.1		33.2 33.0		95.9 98.6		6.7 6.9		0.7	1.6 1.8			1.8 2.4		
				Surface	1.1	23.6	23.6	8.2	8.1	33.1	33.0	99.5	99.1	7.0	7.0	7.0	1.0	1.5		2.4	2.2	
G2	Sunny	Moderate	13:24	Middle	5.0	23.5	23.5	8.2	8.2	33.3	33.2	99.1	99.1	7.0	7.0	7.0	1.0	1.0	1.2	1.9	1.8	1.8
				Detter		23.5 23.5	00.5	8.2 8.2	0.0	33.2 33.3	00.0	99.0 98.7	00.7	7.0 6.9	0.0		0.9	4.0		1.7 1.5		-
				Bottom	8.9	23.5	23.5	8.2	8.2	33.3	33.3	98.7	98.7	6.9	6.9	6.9	1.0	1.0		1.3	1.4	
				Surface	1.1	23.6 23.6	23.6	8.1 8.1	8.1	33.2 33.2	33.2	97.3 96.2	96.8	6.8 6.8	6.8		1.7 1.9	1.8		3.2 2.8	3.0	
G3	Sunny	Moderate	13:35	Middle	4.0	23.6	23.6	8.1	8.1	33.2	33.2	96.3	96.3	6.8	6.7	6.8	1.7	1.7	1.8	2.5	2.4	2.4
05	Ouriny	Woderate	10.00	WIGGIE	4.0	23.6		8.1		33.2		96.2		6.7			1.8		1.0	2.3		2.4
				Bottom	6.9	23.6 23.6	23.6	8.1 8.1	8.1	33.2 33.2	33.2	95.8 95.9	95.9	6.7 6.7	6.7	6.7	1.8 1.8	1.8		1.8 1.6	1.7	
				Surface	1.0	23.5	23.5	8.1	8.1	33.2	33.2	97.9	97.9	6.9	6.9		2.7	2.6		3.5	3.4	
<u></u>	0	Mandamata	10.10	M. J. H.		23.5 23.5	00.5	8.2 8.2	0.0	33.2 33.3	00.0	97.8 97.8	07.0	6.9 6.9	0.0	6.9	2.6 2.2	0.0		3.2 2.4	0.0	0.5
G4	Sunny	Moderate	13:42	Middle	4.0	23.5	23.5	8.2	8.2	33.3	33.3	97.7	97.8	6.9	6.9		2.3	2.3	2.7	2.2	2.3	2.5
				Bottom	7.0	23.5 23.5	23.5	8.2 8.2	8.2	33.3 33.3	33.3	97.3 97.0	97.2	6.8 6.8	6.8	6.8	3.3 3.1	3.2		1.9 1.8	1.9	
				Surface	1.0	23.7	23.7	8.1	8.1	33.1	33.1	97.2	96.1	6.8	6.7		0.9	0.9		3.7	3.5	
						23.6 23.7		8.1		33.2		95.0 95.4		6.7		6.7	0.9			3.3 2.9		-
M1	Sunny	Moderate	13:29	Middle	3.0	23.6	23.6	8.1 8.1	8.1	33.2 33.2	33.2	94.9	95.2	6.7 6.7	6.7		0.8	0.9	0.8	2.9	2.8	2.9
				Bottom	5.0	23.6	23.6	8.1	8.1	33.2	33.2	95.6	95.7	6.7	6.7	6.7	0.7	0.8		2.4	2.3	1
				0		23.5 23.7	00.0	8.1 8.1	0.4	33.3 33.0	00.0	95.8 100.2	00.0	6.7 7.0	7.0		0.9	1.0		2.2	4.0	
				Surface	1.1	23.6	23.6	8.1	8.1	33.0 33.1	33.0	99.0	99.6	6.9	7.0	7.0	1.0	1.0		1.7	1.8	
M2	Sunny	Moderate	13:21	Middle	6.0	23.5 23.5	23.5	8.1 8.2	8.1	33.2 33.3	33.2	99.2 99.1	99.2	7.0 7.0	7.0		1.2 1.2	1.2	1.5	2.6 2.3	2.5	2.4
				Bottom	11.0	23.4	23.4	8.2	8.2	33.3	33.3	97.8	98.0	6.9	6.9	6.9	2.7	2.4	t	3.0	2.9	1
						23.4 23.7		8.2 8.1		33.3 33.2		98.1 99.1		6.9 6.9		0.0	2.0 1.0			2.8 2.6		
				Surface	1.1	23.6	23.6	8.1	8.1	33.2	33.2	97.3	98.2	6.8	6.9	6.9	1.3	1.1		2.5	2.6	
M3	Sunny	Moderate	13:38	Middle	3.9	23.6	23.6	8.1	8.1	33.2	33.2	98.0	97.7	6.9	6.8	0.5	1.4	1.4	1.5	2.2	2.3	2.2
	-			Dettern	7.0	23.6 23.5	22.5	8.1 8.1	0.4	33.2 33.3	22.2	97.4 94.9	05.0	6.8 6.7	0.7	0.7	1.5 2.0	4.0	+	2.3	4.0	-
				Bottom	7.0	23.6	23.5	8.1	8.1	33.2	33.2	96.3	95.6	6.8	6.7	6.7	1.6	1.8		1.8	1.8	
				Surface	1.1	23.6 23.6	23.6	8.2 8.2	8.2	33.2 33.3	33.2	101.6 101.1	101.4	7.1	7.1		1.1	1.1		1.9 1.7	1.8	
M4	Sunny	Moderate	13:17	Middle	5.1	23.6	23.6	8.2	8.2	33.2	33.2	101.7	101.7	7.1	7.1	7.1	1.0	0.9	1.1	2.3	2.2	2.2
	Canny	incuciato				23.6 23.5		8.2 8.2		33.3 33.3		101.7 99.7		7.1 7.0			0.9			2.1 2.7		
				Bottom	9.0	23.6	23.5	8.2	8.2	33.3	33.3	101.1	100.4	7.1	7.0	7.0	1.4	1.2		2.4	2.6	
				Surface	1.0	23.6	23.6	8.2	8.2	33.2	33.2	100.1	100.2	7.0	7.0		1.0	1.0		1.2	1.3	
M5	C	Moderate	13:51	Midelle	6.0	23.6 23.6	23.6	8.2 8.2	8.2	33.2 33.3	22.2	100.3 99.9	100.4	7.0	7.0	7.0	0.9	0.0	1.4	1.3 2.1	2.3	2.1
CIVI	Sunny	Moderate	13:51	Middle	6.0	23.6	23.0	8.2	ö.2	33.3	33.3	100.2	100.1	7.0	7.0		0.9	0.9	1.4	2.4	2.3	2.1
		1		Bottom	11.0	23.5 23.5	23.5	8.2 8.2	8.2	33.3 33.3	33.3	98.5 98.9	98.7	6.9 6.9	6.9	6.9	2.2 2.5	2.4		3.0 2.6	2.8	
				Surface	-	-	-	-	-	-	-	-	-	-	-		-	-	1	-	-	
		1				- 23.5		- 8.1		- 33.3		- 98.1		- 6.9		6.9	- 8.0		-	- 1.4		-
M6	Sunny	Moderate	13:46	Middle	2.0	23.5	23.5	8.1	8.1	33.3	33.3	97.8	98.0	6.9	6.9		8.0	8.0	1.7	1.4	1.5	1.5
		1		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		
Demonstra	I	I	1			-		-		-		-		-	1	I			1	-		

Remarks: *DA: Depth-Averaged

Action and Limit Levels for Marine Water Quality on 16 November 2022 (Mid-Flood Tide)

Parameter	Donth	Action Level	Limit Level
<u>(unit)</u>	<u>Depth</u>	Action Level	Limit Level
	Stations G1-G4, M1-M5	I	
DO in mg/L	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
(See Note 1 and 4)	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
	Stations G1-G4, M1-M5		
		<u>19.3 NTU</u>	<u>22.2 NTU</u>
Turbidity in NTU (See Note 2 and 4)	Bottom	or 120% of upstream control station's Turbidity at the same tide of the same day	or 130% of upstream control station's Turbidity at the same tide of the same day
		<u>C1: 5.9 NTU</u>	<u>C1: 6.4 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
	Stations G1-G4		
		<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Surface	station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
	<u> </u>	<u>C1: 2.6 mg/L</u>	<u>C1: 2.8 mg/L</u>
	<u>Stations M1-M5</u>		
		<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
SS in mg/L	Surface	station's SS at the same tide of	station's SS at the same tide of
(See Note 2 and 4)		the same day	the same day
		<u>C1: 2.6 mg/L</u>	<u>C1: 2.8 mg/L</u>
	Stations G1-G4, M1-M5	1	
		<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Bottom	station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
		<u>C1: 3.6 mg/L</u>	<u>C1: 3.9 mg/L</u>
	Station M6		
	Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction Water Quality Monitoring Results on 18 November 2022

(Mid-Ebb Tide)

Location	Weather	Sea	Sampling	Depth	(m)	Temperat	ture (°C)	p	H	Salini	ty ppt	DO Satur	ation (%)	Dissolve	d Oxygen	(mg/L)	Turbie	dity(NTL	J)	Suspen	ded Solids	(mg/L)
Location	Condition	Condition**	Time	Pehru	, ,,,,,	Value	Average		Average	Value	Average	Value	Average	Value	Average	DA*		verage	DA*	Value	Average	DA*
				Surface	1.0	23.4 23.4	23.4	8.1 8.2	8.1	33.1 33.1	33.1	<u>110.7</u> 111.0	110.9	7.8 7.9	7.9		1.9 1.9	1.9		<0.1 <0.1	<0.1	
C1	Cloudy	Moderate	9:19	Middle	8.5	23.3	23.3	8.2	8.2	33.2	33.2	109.8	110.0	7.8	7.8	7.8	2.1	2.1	2.1	<0.1	<0.1	<0.1
CI	Cloudy	Woderate	9.19			23.3		8.2		33.2		110.1		7.8			2.1		2.1	<0.1		<0.1
				Bottom	16.0	23.2 23.2	23.2	8.2 8.2	8.2	33.3 33.3	33.3	106.0 105.8	105.9	7.5 7.5	7.5	7.5	2.4 2.4	2.4		<0.1 <0.1	<0.1	
				Surface	1.0	23.4 23.4	23.4	8.2 8.2	8.2	33.2 33.2	33.2	109.7 109.8	109.8	7.8 7.8	7.8		2.0	2.0		1.0	1.1	
C2	Cloudy	Moderate	7:41	Middle	16.0	23.3	23.3	8.2	8.2	33.2	33.2	109.5	109.6	7.8	7.8	7.8	1.9	1.9	1.9	1.1	1.2	1.2
02	Cloudy	woderate	7.41			23.3 23.3		8.2 8.2		33.2 33.2		109.6 109.2		7.8 7.7			1.9 1.9		1.5	1.3 1.2		. 1.2
				Bottom	31.0	23.3	23.3	8.2	8.2	33.2	33.2	109.0	109.1	7.7	7.7	7.7	1.9	1.9		1.2	1.2	
				Surface	1.0	23.4 23.4	23.4	8.1 8.1	8.1	33.2 33.2	33.2	110.6 110.7	110.7	7.8 7.8	7.8		1.8 1.9	1.8		1.0	1.1	
G1	Cloudy	Moderate	8:23	Middle	3.7	23.4	23.4	8.2	8.2	33.2	33.2	110.5	110.6	7.8	7.8	7.8	2.0	1.9	1.9	1.1	1.3	0.8
01	cloudy	modorato	0.20			23.4		8.2 8.2		33.2 33.3		110.6 107.7		7.8			1.9 2.1			1.4		
				Bottom	6.5	23.2	23.2	8.2	8.2	33.3	33.3	107.3	107.5	7.6	7.6	7.6	2.1	2.1		<0.1	<0.1	
				Surface	1.0	23.4 23.4	23.4	8.2 8.2	8.2	33.2 33.2	33.2	110.5 110.6	110.6	7.8 7.8	7.8		1.9 1.9	1.9		1.3 1.9	1.6	
G2	Cloudy	Moderate	8:02	Middle	5.0	23.4	23.4	8.2	8.2	33.2	33.2	110.3	110.4	7.8	7.8	7.8	1.8	1.8	1.9	2.1	1.8	1.9
						23.4 23.2		8.2 8.3		33.2 33.3		110.4 107.1		7.8 7.6			1.9 2.0			1.4 1.9		-
				Bottom	9.0	23.2	23.2	8.3	8.3	33.3	33.3	106.9	107.0	7.6	7.6	7.6	2.0	2.0		3.0	2.5	
				Surface	1.0	23.3 23.4	23.3	<u>8.1</u> 8.1	8.1	33.2 33.2	33.2	108.8 109.5	109.2	7.7	7.7		1.8 1.8	1.8		1.5 2.4	2.0	
G3	Cloudy	Moderate	8:31	Middle	3.7	23.3	23.3	8.2	8.2	33.2	33.2	110.5	110.6	7.8	7.8	7.8	2.0	1.8	1.8	1.9	1.8	1.7
				Dettem	0.0	23.4 23.3	00.0	<u>8.2</u> 8.2	0.0	33.2 33.2	22.0	110.6 109.7	100.0	7.8 7.8	7.0	7.0	1.7 1.8	4.0		1.6 1.6	4.5	-
				Bottom	6.6	23.3	23.3	8.2	8.2	33.2 33.2	33.2	109.4	109.6	7.8	7.8	7.8	1.8	1.8		1.3	1.5	
				Surface	1.0	23.4	23.4	<u>8.1</u> 8.1	8.1	33.1 33.1	33.1	110.9 111.2	111.1	7.9 7.9	7.9	7.9	1.7 1.6	1.6		1.6 1.6	1.6	
G4	Cloudy	Moderate	8:48	Middle	3.7	23.4	23.4	8.2	8.2	33.2 33.2	33.2	111.0 111.2	111.1	7.9 7.9	7.9	7.9	1.6 1.6	1.6	1.7	1.6	1.6	1.4
	-			Bottom	6.5	23.4 23.3	23.3	8.2 8.2	8.2	33.2	33.2	109.9	109.7	7.8	7.8	7.8	1.0	2.0		1.5 1.1	1.2	
				BOLLOIN		23.3 23.4		8.2 8.2		33.2 33.2		109.5 110.0	109.7	7.8 7.8		1.0	2.1 2.3	2.0		1.2 1.1	1.2	
				Surface	1.0	23.4	23.4	8.2	8.2	33.2	33.2	110.0	110.2	7.8	7.8	7.8	2.3	2.2		1.1	1.1	
M1	Cloudy	Moderate	8:10	Middle	3.0	23.4 23.4	23.4	8.2 8.2	8.2	33.2 33.2	33.2	<u>110.6</u> 110.6	110.6	7.8 7.8	7.8	7.0	1.9 1.9	1.9	2.0	1.3 1.4	1.4	1.6
				Bottom	5.0	23.4	23.3	8.2	8.2	33.2	33.2	110.0	110.0	7.8	7.8	7.8	1.8	1.8		2.8	2.4	
						23.4 23.4		8.2 8.2		33.2		110.0 109.6		7.8 7.8		7.0	1.7 1.9			1.9		
				Surface	1.0	23.4	23.4	8.2	8.2	33.2 33.2	33.2	110.1	109.9	7.8	7.8	7.8	1.8	1.9		1.7	1.4	
M2	Cloudy	Moderate	7:55	Middle	5.2	23.4 23.4	23.4	8.2 8.2	8.2	33.2 33.2	33.2	110.3 110.3	110.3	7.8 7.8	7.8	7.0	1.7 1.8	1.8	1.8	2.2	2.0	1.7
				Bottom	9.0	23.3	23.3	8.3	8.3	33.2	33.2	109.4	109.2	7.8	7.7	7.7	1.8	1.9		1.4	1.6	
						23.3 23.4		<u>8.3</u> 8.1		33.3 33.1		108.9 111.4		7.7		1.1	1.9 1.6			1.8		
				Surface	1.0	23.4	23.4	8.1	8.1	33.1	33.1	111.5	111.5	7.9 7.9	7.9	7.9	1.6	1.6		1.0	1.1	
M3	Cloudy	Moderate	8:40	Middle	3.7	23.4 23.4	23.4	<u>8.1</u> 8.1	8.1	33.2 33.2	33.2	111.2 111.4	111.3	7.9 7.9	7.9		1.8 1.9	1.8	1.8	2.6	2.7	1.7
				Bottom	6.5	23.3	23.3	8.2	8.2	33.2	33.2	108.9	108.8	7.7	7.7	7.7	2.0	2.0		1.2	1.5	
						23.3 23.4		8.2 8.5		33.2 33.2		108.6 110.3		7.7 7.8			2.0 1.6			1.7 2.7		
				Surface	1.0	23.4	23.4	8.4	8.4	33.2	33.2	110.4	110.4	7.8	7.8	7.8	1.6	1.6		2.1	2.4	_
M4	Cloudy	Moderate	7:48	Middle	5.0	23.3 23.4	23.4	8.6 8.3	8.4	33.2 33.2	33.2	110.1 110.3	110.2	7.8 7.8	7.8		1.8	1.7	1.7	1.8 2.6	2.2	2.1
				Bottom	9.0	23.2	23.2	8.6	8.5	33.3	33.3	108.1	107.9	7.7	7.7	7.7	1.9	1.9		1.8	1.6	
				0		23.2 23.4	00.4	8.3 8.2	0.0	33.3 33.1	00.4	107.7 111.7		7.7			1.9 1.6	1.0		1.4 5.5	5.0	<u> </u>
				Surface	1.0	23.5	23.4	8.2	8.2	33.1	33.1	111.7	111.7	7.9	7.9	7.8	1.6	1.6		5.1	5.3	-
M5	Cloudy	Moderate	9:07	Middle	5.5	23.2 23.2	23.2	8.2 8.2	8.2	33.3 33.3	33.3	108.0 108.4	108.2	7.7	7.7		2.0 2.0	2.0	1.9	1.7 2.6	2.2	3.0
				Bottom	10.0	23.2	23.2	8.2	8.2	33.3	33.3	106.8	106.7	7.6	7.6	7.6	2.1	2.1		1.9	1.7	
						23.2	-	8.2		33.3	-	106.5	-	7.6			- 2.2	-		1.4		<u> </u>
				Surface	-	-		-		-		-		-	-	7.9	-	-		-	-	-
M6	Cloudy	Moderate	8:55	Middle	2.0	23.4 23.4	23.4	<u>8.1</u> 8.1	8.1	33.1 33.1	33.1	111.1 111.3	111.2	7.9 7.9	7.9		1.8 1.8	1.8	1.8	2.2	1.9	1.9
				Bottom		-		-	-	-	-	-	-	-	-	-		-		-	-	
Remarks:	*DA: Depth-Ave	L				-		-	1	-	1				1		-				1	ــــــــــــــــــــــــــــــــــــــ

Action and Limit Levels for Marine Water Quality on 18 November 2022 (Mid-Ebb Tide)

Parameter			
<u>(unit)</u>	<u>Depth</u>	Action Level	Limit Level
DO in mg/L (See Note 1 and 4)	Stations G1-G4, M1-M5		
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	Station M6	•	
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
Turbidity in NTU (See Note 2 and 4)	Stations G1-G4, M1-M5	-	
		<u>19.3 NTU</u>	<u>22.2 NTU</u>
	Bottom	or 120% of upstream control station's Turbidity at the same tide of the same day <i>C2: 2.3 NTU</i>	or 130% of upstream control station's Turbidity at the same tide of the same day <u>C2: 2.4 NTU</u>
	Station M6	<u>C2: 2.3 NTU</u>	<u>C2: 2.4 NTU</u>
		10.0 1071	10 A NTU
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
SS in mg/L (See Note 2 and 4)	Stations G1-G4	<u>6.0 mg/L</u>	6.9 mg/L
	Surface	or 120% of upstream control	or 130% of upstream control
		station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
		<u>C2: 1.3 mg/L</u>	<u>C2: 1.4 mg/L</u>
	Stations M1-M5		<u></u>
		6.2 mg/L	<u>7.4 mg/L</u>
	Surface	or 120% of upstream control station's SS at the same tide of the same day	or 130% of upstream control station's SS at the same tide of the same day
		<u>C2: 1.3 mg/L</u>	C2: 1.4 mg/L
	Stations G1-G4, M1-M5		
		6.9 mg/L	<u>7.9 mg/L</u>
	Bottom	or 120% of upstream control station's SS at the same tide of the same day	or 130% of upstream control station's SS at the same tide of the same day
		<u>C2: 1.4 mg/L</u>	<u>C2: 1.6 mg/L</u>
	Station M6		
	Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.
 All the figures given in the table are used for reference only and EPD may amend the figures whenever it is

3. All the figures given in the table are used for reference only and EPD may amend the figures whene considered as necessary.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction Water Quality Monitoring Results on 18 November 2022

(Mid-Flood Tide)

Location	Weather	Sea	Sampling	Depth	(m)	Temperat		р	н	Salini	ty ppt	DO Satura	ntion (%)	Dissolve	d Oxygen	(mg/L)	Tur	bidity(NT	U)	Suspen	ded Solids	(mg/L)
Location	Condition	Condition**	Time	Sehru	· (···)		Average		Average		Average		Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
				Surface	1.0	23.1 23.0	23.1	8.2 8.2	8.2	33.1 33.1	33.1	109.6 110.3	110.0	7.8 7.8	7.8		2.0 2.0	2.0		1.4 1.5	1.5	
C1	Cloudy	Moderate	16:16	Middle	9.0	22.9	23.3	8.2	8.2	33.2	33.2	109.6	109.7	7.8	7.8	7.8	2.2	2.1	2.2	2.3	1.9	1.5
•						23.8 22.9		8.2 8.2		33.2 33.3		109.7 106.8		7.8 7.6		7.0	2.1 2.5		+	1.4 1.1		
				Bottom	17.0	22.9	22.9	8.2	8.2	33.3	33.3	106.3	106.6	7.6	7.6	7.6	2.5 2.0	2.5		1.2	1.2	
				Surface	1.0	23.2 22.9	23.0	8.1 8.1	8.1	33.2 33.2	33.2	110.0 110.1	110.1	7.8 7.8	7.8	7.8	2.0	2.0		1.3 1.2	1.3	
C2	Cloudy	Moderate	14:30	Middle	16.1	22.9 22.8	22.9	8.2 8.2	8.2	33.2 33.2	33.2	109.7 109.8	109.8	7.8 7.8	7.8	7.0	2.0 2.1	2.0	2.0	1.5 1.4	1.5	0.9
				Bottom	31.0	22.8	22.8	8.2	8.2	33.2	33.2	108.8	108.8	7.7	7.7	7.7	1.9	1.8	1	<0.1	<0.1	1
!						22.8 23.2		8.2 8.2		33.2 33.2		108.7 110.4		7.7 7.8			1.8 1.8			<0.1		
				Surface	1.0	22.9 22.9	23.1	8.2	8.2	33.2	33.2	110.5	110.5	7.8	7.8	7.8	1.8	1.8	-	1.2	1.3	-
G1	Cloudy	Moderate	15:10	Middle	4.0	22.8	22.9	8.2 8.2	8.2	33.2 33.2	33.2	110.3 110.4	110.4	7.8 7.8	7.8		2.0 1.9	1.9	1.9	1.1 1.7	1.4	1.6
				Bottom	7.0	22.8 22.7	22.8	8.2 8.2	8.2	33.3 33.3	33.3	108.6 108.2	108.4	7.7	7.7	7.7	2.0 2.1	2.0		2.2	2.0	
				Surface	1.0	23.9	23.4	8.2	8.2	33.2	33.2	109.8	110.1	7.8	7.8		1.8	1.8		2.6	2.2	
00	Olauta	Madamata	44.54			22.9 22.9		8.2 8.2		33.2 33.2		110.3 110.0		7.8 7.8		7.8	1.8 1.8			1.7 1.4		10
G2	Cloudy	Moderate	14:51	Middle	5.0	22.9	22.9	8.2	8.2	33.2	33.2	110.1	110.1	7.8 7.7	7.8		1.8	1.8	1.9	1.4	1.4	1.6
				Bottom	9.0	22.8 22.8	22.8	8.2 8.2	8.2	33.3 33.3	33.3	107.8 107.4	107.6	7.6	7.6	7.6	2.1 2.1	2.1		1.3 1.4	1.4	
				Surface	1.0	23.5 22.9	23.2	8.2 8.2	8.2	33.2 33.2	33.2	110.0 110.4	110.2	7.8 7.8	7.8		1.7 1.7	1.7		1.1 1.1	1.1	
G3	Cloudy	Moderate	15:18	Middle	4.0	22.8	22.9	8.2	8.2	33.2	33.2	110.7	110.8	7.9	7.9	7.8	1.7	1.7	1.7	1.4	1.5	1.5
						22.9 22.7	22.8	8.2 8.3	8.3	33.2 33.2		110.8 109.1		7.9 7.7	7.7	77	1.7 1.8		+	1.5 1.3	1.8	
				Bottom	7.0	22.8 23.8		8.3 8.2		33.2	33.2	108.9	109.0	7.7 7.9		7.7	1.8	1.8		2.3		
				Surface	1.0	23.0	23.4	8.2	8.2	33.1 33.1	33.1	111.3 111.5	111.4	7.9	7.9	7.9	1.5 1.5	1.5		2.4	2.0	
G4	Cloudy	Moderate	15:31	Middle	4.0	23.0 22.9	23.0	8.2 8.2	8.2	33.2 33.1	33.1	111.3 111.5	111.4	7.9 7.9	7.9	1.5	1.6 1.6	1.6	1.7	1.6 1.1	1.4	1.1
				Bottom	7.0	22.9	22.9	8.3	8.3	33.2	33.2	109.2	109.1	7.8	7.7	7.7	2.1	2.1	1	<0.1	<0.1	1
!					1.0	22.9 23.2	23.1	8.3 8.2	8.2	33.2 33.2	33.2	109.0 110.5	110.6	7.7 7.8	7.8		2.1 1.9	1.9		<0.1	1.3	
				Surface		23.1 22.8		8.2		33.2		110.6 110.6		7.8		7.8	1.9 1.9		-	1.1 1.1		-
M1	Cloudy	Moderate	14:56	Middle	3.0	23.0	22.9	8.2 8.2	8.2	33.2 33.2	33.2	110.6	110.6	7.8 7.8	7.8		1.9	1.9	1.8	1.2	1.2	0.8
				Bottom	5.0	22.8 22.8	22.8	8.2 8.2	8.2	33.2 33.2	33.2	110.0 110.0	110.0	7.8 7.8	7.8	7.8	1.7 1.7	1.7		<0.1 <0.1	<0.1	
				Surface	1.0	23.5	23.2	8.2	8.2	33.2	33.2	110.3	110.4	7.8	7.8		1.8	1.9		1.8	1.6	
M2	Claudu	Madavata	14:45		5.5	22.9 22.8	22.8	8.2 8.2	8.2	33.2 33.2	33.2	110.4 110.4	110.5	7.8 7.8	7.8	7.8	1.9 1.9	1.9	1.9	1.3 1.8	1.6	1.5
IVIZ	Cloudy	Moderate	14.45	Middle		22.8 22.8		8.2 8.2		33.2 33.3		110.5 108.3		7.8 7.7			1.9 1.9		1.9	1.4 1.7		1.5
				Bottom	10.0	22.8	22.8	8.2	8.2	33.3	33.3	107.8	108.1	7.7	7.7	7.7	1.9	1.9		1.2	1.5	
				Surface	1.0	23.2 23.0	23.1	8.2 8.2	8.2	33.2 33.1	33.1	111.2 111.3	111.3	7.9 7.9	7.9	-	1.6 1.5	1.5		1.9 1.3	1.6	
M3	Cloudy	Moderate	15:24	Middle	4.0	22.9 22.9	22.9	8.3 8.3	8.3	33.2 33.2	33.2	110.9	111.0	7.9 7.9	7.9	7.9	1.8	1.8	1.7	1.4	1.8	2.2
				Bottom	7.0	22.6	22.7	8.3	8.3	33.2	33.2	111.1 109.8	109.6	7.8	7.8	7.8	1.8 1.8	1.9	+	3.6	3.3	-
						22.7 23.4		8.3 8.5		33.2 33.2		109.3 110.0		7.8 7.8		7.0	1.9 1.8			2.9 1.2		
				Surface	1.0	22.9	23.2	8.5	8.5	33.2	33.2	110.2	110.1	7.8	7.8	7.8	1.7	1.8		1.2	1.2	
M4	Cloudy	Moderate	14:38	Middle	5.0	22.8 22.8	22.8	8.5 8.5	8.5	33.2 33.2	33.2	109.9 110.0	110.0	7.8 7.8	7.8		1.7 1.8	1.7	1.8	1.6 1.1	1.4	1.3
				Bottom	9.0	22.8	22.8	8.3	8.3	33.2	33.3	109.0	108.8	7.7	7.7	7.7	1.8	1.9	1	1.3	1.3	1
				Surface	1.0	22.8 23.0	22.9	8.3 8.2	8.2	33.3 33.1	33.1	108.5 111.8	111.8	7.7 7.9	7.9		1.9 1.5	1.5		1.2 1.7	1.5	
						22.9 22.9		8.2 8.2		33.1 33.2		111.8 108.9		7.9 7.7		7.8	1.5 2.0		4	1.2 2.0		-
M5	Cloudy	Moderate	16:04	Middle	6.0	23.9	23.4	8.2	8.2	33.2	33.2	109.5	109.2	7.8	7.8		1.9	1.9	1.9	1.2	1.6	1.0
				Bottom	11.0	22.9 22.9	22.9	8.2 8.2	8.2	33.3 33.3	33.3	106.2 105.9	106.1	7.6 7.5	7.5	7.5	2.2 2.2	2.2		<0.1 <0.1	<0.1	
				Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
M6	Cloudy	Moderate	15:45	Middle	2.2	- 23.4	23.2	- 8.2	8.2	33.2	33.2	- 109.9	110.2	- 7.8	7.8	7.8	- 8.0	8.0	1.8	2.2	2.3	2.3
IVIO .	Cioudy	wouerate	13.45	windie	2.2	22.9	23.2	8.2	0.2	33.1	33.2	110.4	110.2	7.8	1.0		8.0	0.0	1.0	2.3	2.5	2.3
-				Bottom		-		-		-	-	-	1	_			-			-		

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Action and Limit Levels for Marine Water Quality on 18 November 2022 (Mid-Flood Tide)

Parameter	Donth	Action Level	Limit Level
<u>(unit)</u>	<u>Depth</u>	Action Level	Limit Level
	Stations G1-G4, M1-M5		
DO in mg/L	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
(See Note 1 and 4)	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	Station M6	-	
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
	Stations G1-G4, M1-M5		
		<u>19.3 NTU</u>	<u>22.2 NTU</u>
Turbidity in NTU (See Note 2 and 4)	Bottom	or 120% of upstream control station's Turbidity at the same tide of the same day	or 130% of upstream control station's Turbidity at the same tide of the same day
		<u>C1: 3.0 NTU</u>	<u>C1: 3.2 NTU</u>
	Station M6	-	
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
	Stations G1-G4		
		<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Surface	station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
		<u>C1: 1.7 mg/L</u>	<u>C1: 1.9 mg/L</u>
	Stations M1-M5		1
		<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Surface	station's SS at the same tide of	station's SS at the same tide of
SS in mg/L		the same day	the same day
(See Note 2 and 4)		<u>C1: 1.7 mg/L</u>	<u>C1: 1.9 mg/L</u>
	Stations G1-G4, M1-M5	I	L
		<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Bottom	station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
		<u>C1: 1.4 mg/L</u>	<u>C1: 1.5 mg/L</u>
	Station M6		
	Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction Water Quality Monitoring Results on 21 November 2022

(Mid-Ebb Tide)

Location	Weather	Sea	Sampling	Depth (m)	Tempera	ture (°C)	р	н	Salini	ty ppt	DO Satura	ation (%)	Dissolve	d Oxygen	(mg/L)	Turbio	dity(NTU)	Suspen	ded Solids	(mg/L)
	Condition	Condition**	Time	(iii)	Value	Average	Value	Average	Value	Average		Average	Value	Average	DA*		verage	DA*		Average	DA*
				Surface 1.1	23.9	23.9	8.3	8.3	33.1	33.1	118.0	118.3	8.2	8.3		2.4	2.4		3.6	3.4	
64	Claudu	Madazata	11:07	Middle 0.4	23.9 23.9	22.0	8.3 8.3	0.0	33.1 33.2	22.4	118.6 119.6	110.0	8.3 8.4	8.3	8.3	2.4 1.3	4.2	1.9	3.2 4.1	2.0	4.0
C1	Cloudy	Moderate	11:07	Middle 9.1	23.9	23.9	8.3	8.3	33.1	33.1	119.5	119.6	8.3	8.3		1.2	1.3	1.9	3.7	3.9	4.0
				Bottom 17.	0 23.9 23.9	23.9	8.3 8.3	8.3	33.2 33.2	33.2	121.2 121.3	121.3	8.5 8.5	8.5	8.5	2.1 2.2	2.1		4.5 4.9	4.7	
				Surface 1.0	22.0	23.9	8.3	8.3	33.1	33.1	115.9	116.3	8.1	8.1		2.2	2.2		3.8	3.6	
				Sunace 1.0	23.9	23.9	8.3	0.5	33.1 33.1 33.1	55.1	116.6	110.5	8.1	0.1	8.2	2.2	2.2		3.4	5.0	
C2	Cloudy	Moderate	10:10	Middle 16.	1 23.9 23.9	23.9	8.3 8.3	8.3	33.1	33.1	117.8 117.7	117.8	8.2 8.2	8.2		2.0	2.0	2.8	4.0	4.2	4.3
				Bottom 31.	1 23.9	23.9	8.3	8.3	33.1	33.1	118.0	118.0	8.2	8.2	8.2	4.1	4.1		5.3	5.2	
				Dottom 01.	23.9		8.3 8.4		33.1 33.1		118.0 127.3		8.2 8.9		0.2	4.1 0.9			5.0 4.4		
				Surface 1.1	23.9	23.9	8.4	8.4	33.1	33.1	127.3	127.7	8.9	8.9	9.0	0.9	0.9		4.4	4.2	
G1	Cloudy	Moderate	10:40	Middle 4.2	23.9	23.9	8.4	8.4	33.1	33.1	131.6	131.5	9.2	9.2	9.0	0.9	1.0	1.0	5.4	5.3	5.3
	,				23.9		<u>8.4</u> 8.4		33.1 33.2		131.3 131.2		9.2 9.2			1.0			5.1 6.5		
				Bottom 7.1	23.8	23.8	8.4	8.4	33.2	33.2	130.8	131.0	9.1	9.1	9.1	1.0	1.0		6.2	6.4	
				Surface 1.0	23.9	23.9	8.4	8.4	33.0	33.0	128.0	128.2	8.9	9.0		1.2	1.2		4.1	4.0	
00	Olauda		40.04	M	23.9	00.0	8.4 8.3	0.0	33.0 33.1	00.4	128.4 124.7	404.0	9.0 8.7	0.7	8.8	1.2	4.0	4.0	3.8 3.4	0.5	
G2	Cloudy	Moderate	10:31	Middle 5.0	23.9	23.9	8.3	8.3	33.1	33.1	125.1	124.9	8.7	8.7		1.3	1.3	1.8	3.6	3.5	3.5
				Bottom 9.1	23.9	23.9	8.3	8.3	33.2	33.2	123.7	123.5	8.6	8.6	8.6	2.9	3.0		2.9	3.1	
				Surface 1.1	23.9 24.0	24.0	8.3 8.4	8.4	33.2 33.0	33.0	123.3 129.5	130.1	8.6 9.0	9.1		3.0 0.7	0.8		3.2 3.8	4.0	
				Sunace 1.1	24.0	24.0	8.4	8.4	33.0	33.0	130.6	130.1	9.1	9.1	9.2	0.8	0.8		4.1	4.0	
G3	Cloudy	Moderate	10:43	Middle 4.1	23.8 23.9	23.9	8.4 8.4	8.4	33.2	33.1	132.5 133.5	133.0	9.3 9.3	9.3		1.1 1.0	1.0	1.9	4.7	4.6	4.5
				Bottom 7.1	22.0	23.8	8.3	8.3	33.1 33.2	33.2	121.5	121.5	8.5	8.5	8.5	4.1	4.0		4.8	5.0	
				Dottoini 7.1	23.8	20.0	8.3		33.2	55.2	121.4	121.5	8.5	0.5	0.5	3.9	4.0		5.2	5.0	
				Surface 1.0	24.0	24.0	8.4 8.4	8.4	33.2 33.2	33.2	133.4 134.1	133.8	9.3 9.3	9.3		0.9	0.9		3.8 3.5	3.7	
G4	Cloudy	Moderate	10:51	Middle 4.0	23.8	23.8	8.4	8.4	33.2	33.2	129.7	129.9	9.1	9.1	9.2	1.2	1.1	1.1	2.8	3.0	3.0
0.	cloudy	moderate			23.9		8.4 8.3		33.2 33.2		130.1 128.3		9.1 9.0			1.1			3.2 2.2		0.0
				Bottom 7.0	23.8	23.8	8.3	8.3	33.2	33.2	120.3	127.9	8.9	8.9	8.9	1.1	1.1		2.4	2.3	
				Surface 1.1	23.9	23.9	8.3	8.3	33.1	33.1	125.6	125.9	8.8	8.8		1.1	1.1		2.1	2.2	
	Olauda		40.00	Millio 0.0	23.9	00.0	8.3 8.3	0.0	33.1 33.2	00.0	126.1 127.1	407.4	8.8 8.9	0.0	8.8	1.0		4.0	2.3 2.7	0.0	
M1	Cloudy	Moderate	10:36	Middle 3.0	23.9	23.9	8.3	8.3	33.2	33.2	127.1	127.1	8.9	8.9		1.2	1.1	1.2	3.1	2.9	3.2
				Bottom 5.1	23.9 23.9	23.9	<u>8.3</u> 8.3	8.3	33.2 33.2	33.2	127.1 127.1	127.1	8.9 8.9	8.9	8.9	1.4	1.4		4.2	4.5	
				Surface 1.1	23.9	23.9	8.4	8.4	33.1	33.1	121.8	122.1	8.5	8.5		1.2	1.2		2.4	2.2	
					23.9		8.4	-	33.1	55.1	122.4		8.6	0.5	8.6	1.1	1.2		2.0	2.2	
M2	Cloudy	Moderate	10:18	Middle 6.0	23.9	23.9	8.4 8.4	8.4	33.1 33.1	33.1	125.6 125.5	125.6	8.8 8.8	8.8		1.2	1.2	2.1	3.0 2.6	2.8	2.8
				Bottom 11.	1 23.9	23.9	8.3	8.3	33.2	33.2	121.3	121.4	8.5	8.5	8.5	4.1	4.0		3.6	3.5	
					23.9		8.3 8.4		33.2		121.4 136.7		8.5		0.0	4.0 0.7			3.3 4.0		
				Surface 1.1	23.9	23.9	8.4	8.4	33.1 33.1	33.1	137.1	136.9	9.5 9.6	9.5	9.5	0.6	0.7		3.6	3.8	
M3	Cloudy	Moderate	10:47	Middle 4.0	23.9	23.9	8.4	8.4	33.2	33.1	135.8	136.3	9.5 9.5	9.5	3.5	0.9	0.9	1.0	3.4 3.1	3.3	3.3
				Dellar 0.0	00.0	00.0	8.4 8.4	0.0	33.1 33.2	00.0	136.8 128.6	100.0	9.5	0.0		0.8	4.0		2.6	0.0	_
				Bottom 6.9	23.8	23.8	8.3	8.3	33.2	33.2	127.4	128.0	8.9	8.9	8.9	1.6	1.6		2.9	2.8	
				Surface 1.0	23.9	23.9	8.4 8.4	8.4	33.1 33.1	33.1	120.5 121.2	120.9	8.4 8.5	8.4		1.1	1.1		3.1 3.4	3.3	
M4	Cloudy	Moderate	10:15	Middle 5.1	22.0	23.9	8.4	8.4	33.1	33.1	121.2	124.4	8.7	8.7	8.6	1.2	1.1	1.2	2.8	2.9	2.8
1014	Cioudy	woderate	10.15	Middle 5.1	23.9	23.9	8.4	0.4	33.1	33.1	124.2	124.4	8.7	0.7		1.1	1.1	1.2	3.0	2.9	2.0
				Bottom 9.2	23.9	23.9	8.4 8.4	8.4	33.1 33.1	33.1	124.5 124.5	124.5	8.7 8.7	8.7	8.7	1.4	1.4		2.1 2.4	2.3	
				Surface 1.0	22.0	23.9	8.3	8.3	33.1	33.1	121.7	122.0	8.5	8.5		1.3	1.3		5.3	5.1	
					23.9		8.3		33.1 33.2		122.2 121.7		8.5 8.5		8.5	1.2 2.2			4.9 4.0		-
M5	Cloudy	Moderate	11:01	Middle 5.9	23.8	23.8	8.3 8.3	8.3	33.2	33.2	121.7	121.9	8.5	8.5		2.2	2.2	2.0	3.6	3.8	4.0
				Bottom 11.	23.8	23.8	8.3	8.3	33.2	33.2	121.2	121.3	8.5	8.5	8.5	2.5	2.5		2.8	3.0	
					23.8		8.3		33.2		121.4		8.5			2.6			3.2		
				Surface -	-	-	-	-	-	-	-	-	-	-	8.7	-	-		-	-	
			1		22.0		8.3		33.2		123.6		8.6		0.7	1.3			2 5		1
M6	Cloudy	Moderate	10:55	Middle 2.1	23.8	23.8	0.0	8.3	33.2	33.2	124.4	124.0		8.7		1.3	1.3	1.3	2.5	2.4	2.4
M6	Cloudy	Moderate	10:55	Middle 2.1 Bottom -	23.8	- 23.8 -	8.3	8.3	33.2 33.2 -	33.2	123.0	124.0	8.7	8.7		1.3	1.3	1.3	2.5	2.4	2.4

*DA: Depth-Averaged **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Action and Limit Levels for Marine Water Quality on 21 November 2022 (Mid-Ebb Tide)

Parameter			
<u>(unit)</u>	<u>Depth</u>	Action Level	Limit Level
	Stations G1-G4, M1-M5	•	•
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
DO in mg/L (See Note 1 and 4)	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
	Stations G1-G4, M1-M5		
		<u>19.3 NTU</u>	<u>22.2 NTU</u>
Turbidity in NTU (See Note 2 and 4)	Bottom	or 120% of upstream control station's Turbidity at the same tide of the same day	or 130% of upstream control station's Turbidity at the same tide of the same day
	Station M6	<u>C2: 4.9 NTU</u>	<u>C2: 5.3 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
	Stations G1-G4	1	
		<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Surface	station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
		<u>C2: 4.3 mg/L</u>	<u>C2: 4.7 mg/L</u>
	Stations M1-M5	1	
		<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Surface	station's SS at the same tide of	station's SS at the same tide of
SS in mg/L		the same day	the same day
(See Note 2 and 4)		C2: 4.3 mg/L	<u>C2: 4.7 mg/L</u>
	Stations G1-G4, M1-M5		
		<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Bottom	station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
		<u>C2: 6.2 mg/L</u>	<u>C2: 6.7 mg/L</u>
	Station M6	•	<u> </u>
	Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction Water Quality Monitoring Results on 21 November 2022

(Mid-Flood Tide)

C1	Condition	Condition**	Time	Depth	····,	Value	Average	Value	Average	Value		37-1		Value	-			-		34-1	-	
C1									Average		Average		Average		Average	DA*	Value	Average	DA*	Value	Average	DA*
C1				Surface	1.1	23.9 23.9	23.9	8.3 8.3	8.3	33.1 33.1	33.1	122.3 122.2	122.3	8.5 8.5	8.5		1.2 1.3	1.2		3.7 4.1	3.9	I
CI	Cloudy	Madarata	17:00	Middle	0.0	23.9	22.0	8.3	0.2	33.2	22.2	122.2	120.7	8.4	0.4	8.5	1.3	1.2	1 5	3.3	2.4	26
	Cloudy	Moderate	17:09	Middle	9.0	23.9	23.9	8.3	8.3	33.2	33.2	120.8	120.7	8.4	8.4		1.3	1.3	1.5	3.5	3.4	3.6
				Bottom	17.1	23.9 23.9	23.9	8.3 8.3	8.3	33.2 33.2	33.2	120.7 120.8	120.8	8.4 8.4	8.4	8.4	1.8 1.9	1.9		3.2 3.5	3.4	I
				Surface	1.1	23.9	23.9	8.3	8.3	33.1	33.1	120.0	120.5	8.4	8.4		2.1	2.1		4.1	4.0	
				Sunace	1.1	23.9	23.9	8.3	0.5	33.1	55.1	120.6	120.5	8.4		8.3	2.1	2.1		3.8	4.0	I
C2	Cloudy	Moderate	16:13	Middle	16.1	23.9 23.9	23.9	8.3 8.3	8.3	33.1 33.1	33.1	118.5 118.7	118.6	8.3 8.3	8.3		2.8 2.8	2.8	2.5	2.3	2.5	2.8
				Bottom	31.1	23.9	23.9	8.3	8.3	33.1	33.1	118.4	118.4	8.3	8.3	8.3	2.5	2.5		1.9	1.8	I
						23.9 23.9		8.3 8.4		33.1 33.1		118.4 133.5		8.3 9.3		0.0	2.5 0.8			1.7 2.3		
				Surface	1.0	23.9	23.9	8.4	8.4	33.1	33.1	133.7	133.6	9.3	9.3	9.3	0.8	0.8		2.1	2.2	I
G1	Cloudy	Moderate	16:41	Middle	4.0	23.9	23.9	8.4	8.4	33.1	33.1	133.7	133.8	9.3	9.3	9.5	0.9	0.9	0.8	2.6	2.8	2.7
	2					23.9 23.8		8.4 8.4		33.1 33.2		133.8 132.0		9.3 9.2			0.9			2.9 3.2		I
				Bottom	7.0	23.8	23.8	8.4	8.4	33.2	33.2	131.5	131.8	9.2	9.2	9.2	0.7	0.7		2.9	3.1	I
				Surface	1.1	23.9 23.9	23.9	8.4 8.4	8.4	33.1 33.1	33.1	127.1 128.2	127.7	8.9 9.0	8.9		0.6	0.6		2.4	2.3	I
00	0	Ma	40.00	M. J. H.	5.4	23.9	00.0	8.4	0.0	33.1	00.4	128.2	405.0	9.0	0.0	8.9	0.6	10		2.1	0.0	
G2	Cloudy	Moderate	16:32	Middle	5.1	23.9	23.9	8.3	8.3	33.1	33.1	126.2	125.9	8.8	8.8		1.2	1.2	1.9	2.6	2.6	2.6
				Bottom	9.0	23.9 23.9	23.9	8.3 8.3	8.3	33.2 33.2	33.2	123.1 122.8	123.0	8.6 8.6	8.6	8.6	3.9 3.9	3.9		3.1 2.9	3.0	I
				Surface	1.0	23.9	24.0	8.4	8.4	33.0	33.0	134.4	134.9	9.4	9.4		0.5	0.5		2.8	2.6	
				Sunace	1.0	24.0	24.0	8.4	0.4	33.1	33.0	135.3	134.9	9.4	9.4	9.4	0.5	0.5		2.4	2.0	I
G3	Cloudy	Moderate	16:45	Middle	4.1	23.9 23.9	23.9	8.4 8.4	8.4	33.2 33.1	33.1	135.1 135.9	135.5	9.4 9.5	9.5		0.5	0.5	1.4	3.4 3.2	3.3	3.1
				Bottom	7.1	23.8	23.8	8.4	8.3	33.2	33.2	124.9	124.6	8.7	8.7	8.7	3.1	3.1		3.5	3.4	I
				Dottoin	7.1	23.8 23.9		8.3 8.4		33.2 33.2		124.3		8.7 9.4		0.1	3.1 0.5			3.3		·
				Surface	1.1	23.9	23.9	8.4	8.4	33.2	33.2	135.1 135.3	135.2	9.4	9.4	0.0	0.5	0.6		2.1 2.3	2.2	I
G4	Cloudy	Moderate	16:52	Middle	4.1	23.8	23.9	8.3	8.3	33.2	33.2	131.7	132.5	9.2	9.3	9.3	1.0	1.0	1.1	2.9	3.1	3.1
-	,					23.9 23.8		8.4 8.3		33.2 33.2		133.2 127.6		9.3 8.9			1.0			3.3 4.2		1
				Bottom	7.0	23.8	23.8	8.3	8.3	33.2	33.2	126.6	127.1	8.9	8.9	8.9	1.8	1.8		3.8	4.0	ı
				Surface	1.1	23.9 23.9	23.9	8.3	8.3	33.1 33.1	33.1	127.6	127.7	8.9	8.9		1.1	1.1		3.3	3.2	I
	0	Ma	40.07	M. J. H.		23.9	00.0	8.3 8.4	0.4		00.4	127.7 127.8	407.0	8.9 8.9	0.0	8.9	1.1 0.9	10		3.0 3.8	4.0	
M1	Cloudy	Moderate	16:37	Middle	3.0	23.9	23.9	8.4	8.4	33.1 33.1	33.1	127.8	127.8	8.9	8.9		1.0	1.0	1.0	4.1	4.0	4.0
				Bottom	5.0	23.9 23.9	23.9	8.4 8.4	8.4	33.1 33.2	33.1	127.6 127.6	127.6	8.9 8.9	8.9	8.9	0.9	0.9		4.6 5.0	4.8	I
				Surface	1.0	23.9	23.9	8.4	8.4	33.1	33.1	121.6	122.1	8.5	8.5		0.9	0.9		4.9	5.1	
				Surface	1.0	23.9	23.9	8.4	0.4	33.1	33.1	122.5	122.1	8.6	0.0	8.7	0.9	0.9		5.3	0.1	I
M2	Cloudy	Moderate	16:26	Middle	6.0	23.9 23.9	23.9	8.4 8.4	8.4	33.1 33.1	33.1	126.4 126.4	126.4	8.8 8.8	8.8		1.1 1.0	1.0	1.0	4.0 3.8	3.9	4.0
				Bottom	11.0	23.9	23.9	8.4	8.4	33.1	33.1	125.2	125.1	8.7	8.7	8.7	1.1	1.0		2.9	3.1	I
				Dottoin	11.0	23.9	20.0	8.4 8.4	0.4	33.1	00.1	125.0 138.2	120.1	8.7 9.6	0.1	0.1	1.0	1.0		3.2	0.1	·
				Surface	0.9	23.9 23.9	23.9	8.4	8.4	33.1 33.1	33.1	138.4	138.3	9.0	9.6	9.6	0.6	0.6		2.6 2.4	2.5	I
M3	Cloudy	Moderate	16:48	Middle	4.1	23.9	23.9	8.4	8.4	33.2	33.1	136.5	137.1	9.5	9.6	9.0	0.9	0.8	1.1	3.7	3.9	3.7
-	,					23.9 23.8		8.4 8.4		33.1 33.2		137.6 127.5		9.6 8.9			0.8			4.0 4.6		1
				Bottom	7.1	23.8	23.8	8.3	8.3	33.2	33.2	125.6	126.6	8.8	8.8	8.8	1.9	1.9		5.0	4.8	ı
				Surface	1.1	23.9	23.9	8.4	8.4	33.1	33.1	126.8	126.9	8.9	8.9		1.2	1.2		4.2	4.0	I
M4	Claudu	Madarata	16:16	Midalla	5.4	23.9 23.9	23.9	8.4 8.4	8.4	33.1 33.1	22.4	126.9 126.6	126.7	8.9 8.8	8.8	8.9	1.2	4.4	1.2	3.8 3.2	3.4	3.4
1014	Cloudy	Moderate	10:10	Middle	5.1	23.9	23.9	8.4	8.4	33.1	33.1	126.8	120.7	8.9	8.8		1.1	1.1	1.2	3.5	3.4	3.4
				Bottom	9.1	23.9 23.9	23.9	8.4 8.4	8.4	33.1 33.1	33.1	125.6 125.4	125.5	8.8 8.8	8.8	8.8	1.4 1.5	1.5		2.8 3.1	3.0	I
				Surface	0.9	23.9	23.9	8.3	8.3	33.1	33.1	123.9	123.8	8.7	8.6		1.3	1.3		4.8	4.6	
						23.9		8.3		33.1		123.7		8.6		8.6	1.3			4.4		I
M5	Cloudy	Moderate	17:02	Middle	6.0	23.8 23.8	23.8	8.3 8.3	8.3	33.2 33.2	33.2	122.6 123.0	122.8	8.6 8.6	8.6		2.2	2.2	1.6	3.6 3.2	3.4	3.6
				Bottom	11.0	23.8	23.8	8.3	8.3	33.2	33.2	122.0	122.1	8.5	8.5	8.5	1.4	1.4		2.7	2.8	I
						23.8		8.3		33.2		122.2		8.5		0.0	1.3			2.9	-	
				Surface	-	-	-	-	-	-	-	-	-	-	-	07	-	-		-	-	I
M6	Cloudy	Moderate	16:55	Middle	2.2	23.8	23.8	8.3	8.3	33.2	33.2	124.9	125.1	8.7	8.7	8.7	8.0	8.0	1.2	2.9	3.0	3.0
-	,					23.8		8.3		33.2		125.3	-	8.8	-		8.0			3.0		
				Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	i i

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Action and Limit Levels for Marine Water Quality on 21 November 2022 (Mid-Flood Tide)

Parameter	Donth	Action Level	Limit Level
<u>(unit)</u>	<u>Depth</u>	Action Level	Limit Level
	Stations G1-G4, M1-M5		Γ
DO in ma/I	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
DO in mg/L (See Note 1 and 4)	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	Station M6	• •	
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
	Stations G1-G4, M1-M5		
		<u>19.3 NTU</u>	<u>22.2 NTU</u>
Turbidity in NTU (See Note 2 and 4)	Bottom	or 120% of upstream control station's Turbidity at the same tide of the same day	or 130% of upstream control station's Turbidity at the same tide of the same day
		<u>C1: 2.2 NTU</u>	<u>C1: 2.4 NTU</u>
	Station M6		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
	Stations G1-G4		
		<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Surface	station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
		<u>C1: 4.7 mg/L</u>	<u>C1: 5.1 mg/L</u>
	Stations M1-M5		
		<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Surface	station's SS at the same tide of	station's SS at the same tide of
SS in mg/L (See Note 2 and 4)		the same day	the same day
(See Note 2 and 4)		<u>C1: 4.7 mg/L</u>	<u>C1: 5.1 mg/L</u>
	Stations G1-G4, M1-M5		
		<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Bottom	station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
		<u>C1: 4.0 mg/L</u>	<u>C1: 4.4 mg/L</u>
	Station M6	1	I
	Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction Water Quality Monitoring Results on 23 November 2022

(Mid-Ebb Tide)

Condition <	Location	Weather	Sea	Sampling	Depth (m)	Temper	ature (°C)	p	н	Salini	ty ppt	DO Satur	ation (%)	Dissolve	ed Oxygen	(mg/L)	Turbidity	(NTU)	Susp	ended Solids	s (mg/L)
	recontion	Condition	Condition**	Time	-spin (m)		Average		Average		Average		Average		Average	DA*		age		Average	DA*
Chi Chi <td></td> <td></td> <td></td> <td></td> <td>Surface 1.</td> <td></td> <td>23.7</td> <td></td> <td>8.3</td> <td></td> <td>33.1</td> <td></td> <td>108.6</td> <td></td> <td>7.6</td> <td></td> <td></td> <td>2</td> <td></td> <td>1.7</td> <td></td>					Surface 1.		23.7		8.3		33.1		108.6		7.6			2		1.7	
0.0007 0.0008 0.000 0.000 0.0008 0.000 0.0008 0.000 0.0008 0.000 0.0008 0.000 0.0008 0.000 0.0008 <th0.0008< th=""> 0.0008 0.0008</th0.0008<>	64	Claudu	Madazata	10.00	Middle	22.7	00.7		0.0		22.4		100.7		7.7	7.6	10	2	1.2	4.2	- 10
Class Autor Class Class <th< td=""><td>C1</td><td>Cloudy</td><td>Moderate</td><td>12:02</td><td>ivilddie 9.</td><td>23.7</td><td>23.7</td><td>8.3</td><td>8.3</td><td>33.1</td><td>33.1</td><td>109.7</td><td>109.7</td><td>7.7</td><td>1.1</td><td></td><td>1.3</td><td>3</td><td>1.2</td><td>1.3</td><td>1.0</td></th<>	C1	Cloudy	Moderate	12:02	ivilddie 9.	23.7	23.7	8.3	8.3	33.1	33.1	109.7	109.7	7.7	1.1		1.3	3	1.2	1.3	1.0
R (0) R (0) <th< td=""><td></td><td></td><td></td><td></td><td>Bottom 17</td><td>1 23.7</td><td>23.7</td><td>8.3</td><td>8.3</td><td>33.2</td><td>33.2</td><td></td><td>110.4</td><td></td><td>7.7</td><td>7.7</td><td></td><td>1</td><td></td><td><0.1</td><td></td></th<>					Bottom 17	1 23.7	23.7	8.3	8.3	33.2	33.2		110.4		7.7	7.7		1		<0.1	
					Surface 1	22.7	23.7		8.2	33.1	33.1		109.8		77		10	8		-0.1	-
					ounace n.	23.7	20.1	8.2	0.2	33.1	35.1		103.0	7.7	1.1	7.7	1.8	0		<0.1	_
Image: book book book book book book book boo	C2	Cloudy	Moderate	11:24	Middle 16	0 23.7	23.7	8.3	8.3	33.2	33.2		109.3	7.7	7.7			6	1.9 1.3	1.3	1.0
Geom Model 11 Model 12 22 12					Bottom 31	0 23.7	23.7	8.3	8.3	33.2	33.2	108.5	108.5	7.6	7.6	7.6		4		1.8	1
<th< th=""> <th< th=""></th<></th<>						22.7				33.2							0.0				
Girdy Modered Hode here Hode here Hode here Solution of the second here Solu					Surface 1.	23.7	23.7	8.2	8.2	32.9	32.9	106.2	106.1	7.4	7.4	7.6	0.9	9	1.3	- 1.2	
Image: border b	G1	Cloudy	Moderate	11:45	Middle 4.		23.7		8.3		33.1		109.7		7.7			0		<0.1	0.4
G2 Clearly Audies Surface 10 227 237 82 82 330 1005 75 75 75 76 168 0.8 158 168 168 75 75 75 76 168 0.8 135 160 175 77 76 168 0.8 168					Bottom 7	00.7	22.7		0.2		22.1		100.8		77	77	4.0	2		-0.1	-
Abota Abota <th< td=""><td></td><td></td><td></td><td></td><td>Bollom 7.</td><td>23.7</td><td>23.1</td><td></td><td></td><td></td><td>33.1</td><td></td><td>109.0</td><td></td><td>1.1</td><td>1.1</td><td>1.4</td><td>3</td><td></td><td><0.1</td><td></td></th<>					Bollom 7.	23.7	23.1				33.1		109.0		1.1	1.1	1.4	3		<0.1	
					Surface 1.		23.7		8.2		32.9		106.5		7.5			8		1.6	
Image: borner	G2	Cloudy	Moderate	11:38	Middle 5	23.7	23.7	8.3	83	33.1	33.1	110.0	109.9	7.7	77	7.6	1.0 1.0	0	1.0 1.2	1.3	0.9
Image: bound bit image: bit imag	02	cloudy	moderate	11.00		23.7				33.1							1.0		1.3		- 0.0
A bit is a state is a					Bottom 9.		23.7		8.3		33.1		110.4		7.7	7.7		1		<0.1	
G3 Cloudy Moderne 11-4' Midde 4.2 2.7 8.3 8.3 3.31 3.0 100.7 7.6 7.6 7.6 7.6 7.6 7.6 7.6 7.7 <td></td> <td></td> <td></td> <td></td> <td>Surface 1.</td> <td>23.7</td> <td>23.7</td> <td>8.2</td> <td>8.2</td> <td>33.0</td> <td>33.0</td> <td></td> <td>106.9</td> <td>7.5</td> <td>7.5</td> <td></td> <td></td> <td>9</td> <td></td> <td>1.4</td> <td></td>					Surface 1.	23.7	23.7	8.2	8.2	33.0	33.0		106.9	7.5	7.5			9		1.4	
Goody Modela File Modela File		<u>.</u>				22.7				33.0						7.5	0.7	-	17		
Alg Alg Alg I </td <td>G3</td> <td>Cloudy</td> <td>Moderate</td> <td>11:47</td> <td>Middle 4.</td> <td>23.7</td> <td>23.7</td> <td>8.3</td> <td>8.3</td> <td>33.0</td> <td>33.0</td> <td>108.4</td> <td>108.6</td> <td>7.6</td> <td>7.6</td> <td></td> <td>0.7 0.</td> <td>/</td> <td>0.8 1.9</td> <td>1.8</td> <td>1.8</td>	G3	Cloudy	Moderate	11:47	Middle 4.	23.7	23.7	8.3	8.3	33.0	33.0	108.4	108.6	7.6	7.6		0.7 0.	/	0.8 1.9	1.8	1.8
Alg Alg Alg I </td <td></td> <td></td> <td></td> <td></td> <td>Bottom 7.</td> <td></td> <td>23.7</td> <td></td> <td>8.3</td> <td>33.1</td> <td>33.1</td> <td></td> <td>109.5</td> <td>7.7</td> <td>7.7</td> <td>7.7</td> <td></td> <td>9</td> <td>2.1</td> <td>2.2</td> <td></td>					Bottom 7.		23.7		8.3	33.1	33.1		109.5	7.7	7.7	7.7		9	2.1	2.2	
Get Hoder at body Mode at b					Surface 1	23.8	22.9	8.3	0.2	33.0	22.0	108.8	109.0	7.6	7.6		10	1	1.3	1.4	-
Gen Holderate High Holderate High Holderate High High <td></td> <td></td> <td></td> <td></td> <td>Sunace 1.</td> <td>23.8</td> <td>23.0</td> <td></td> <td>0.5</td> <td>33.0</td> <td>33.0</td> <td></td> <td>100.9</td> <td>7.6</td> <td>7.0</td> <td>7.7</td> <td>1.1</td> <td></td> <td></td> <td>1.4</td> <td>_</td>					Sunace 1.	23.8	23.0		0.5	33.0	33.0		100.9	7.6	7.0	7.7	1.1			1.4	_
Image: state	G4	Cloudy	Moderate	11:52	Middle 4.		23.7		8.3	33.1	33.1		110.0	7.7	7.7			0		1.8	1.8
M1 Cloudy Moderate 11:42 Surface 10 23.7 23.7 8.2 8.2 8.2 8.3 10.9 10.3 17.3 7.3					Bottom 6.	23.7	23.7	8.3	8.3	33.1	33.1	110.1	110.1	7.7	7.7	7.7	1.1 1	1	2.1	2.2	-
M Cloudy Moderate 11:4: 23.7 23.7 8.2 8.2 8.2 8.3 103.5 10.3.7 7.3 7.3 7.4 7.3 7.3 7.4 7.3 7.3 7.4 7.3						23.7											1.1				
M1 Cloudy Moderate 11-42 Midel 3.1 23.7 8.2 33.1 33.1 104.4 104.7 7.3 7.3 7.3 10.0 1.0 10.0 <					Surface 1.		23.7		8.2		32.9		103.4		7.2	73		8		<0.1	
Image: bolic	M1	Cloudy	Moderate	11:42	Middle 3.		23.7		8.2		33.1		104.7		7.3	7.5		0		1.2	0.9
M2 Low Moderate Button 3.0 23.7 2.3 8.3 8.3 9.3 7.3 <th< td=""><td></td><td></td><td></td><td></td><td>Dettern 5</td><td>00.7</td><td>00.7</td><td></td><td>0.0</td><td></td><td>22.4</td><td></td><td>402.0</td><td></td><td>7.0</td><td>7.0</td><td>0.0</td><td>0</td><td></td><td>4.5</td><td>-</td></th<>					Dettern 5	00.7	00.7		0.0		22.4		402.0		7.0	7.0	0.0	0		4.5	-
M2 Cloudy Moderate 11:3 23.7 23.7 23.7 8.3 6.3 7.0 7.7					Bollom 5.	23.7	23.7	8.2	8.2	33.1	33.1	104.0	103.9	7.3	1.3	7.3	0.9	9	1.4	1.5	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$					Surface 1.	$\frac{23.7}{23.7}$	23.7		8.3	33.0	33.0		108.3	7.6	7.6			1		<0.1	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	M2	Cloudy	Moderate	11.36	Middle 6	23.7	23.7	8.3	83	33.1	33.1	110.0	110.0	7.7	77	7.6	10	2	1.2 1.2	13	10
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	1012	Cloudy	moderate	11.00		23.7				33.1							1.2	-	1.4	1.0	- 1.0
$ \ \ \ \ \ \ \ \ \ \ \ \ \ $					Bottom 11		23.7		8.3	33.2	33.2		110.1		7.7	7.7		4		1.8	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $					Surface 1.		23.7	8.3	8.3	33.0	33.0		107.6	7.5	7.5			9		<0.1	
M3 Cloudy Moderate 11.49 Middle 4.0 23.7 23.7 23.7 8.3 6.3 33.0 35.0 108.4 108.4 7.6 <th< td=""><td></td><td><u>.</u></td><td></td><td></td><td></td><td>22.7</td><td></td><td></td><td></td><td>33.0</td><td></td><td></td><td></td><td>7.5</td><td></td><td>7.6</td><td>0.0</td><td></td><td>1.2</td><td></td><td></td></th<>		<u>.</u>				22.7				33.0				7.5		7.6	0.0		1.2		
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	M3	Cloudy	Moderate	11:49	Middle 4.	23.7	23.7	8.3	8.3	33.0	33.0	108.4	108.4	7.6	7.6		0.9	9	0.9 1.4	- 1.3	1.0
M 4 = M 4					Bottom 7.	1 23.7	23.7		8.3	33.1	33.1		108.3	7.6	7.6	7.6		9		1.8	
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$					Surface 1	23.7	23.7	8.3	83	33.1	33.1	107.8	108.0	7.6	7.6		1.5 1.	5	1.9	1.8	-
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $						23.7										7.6	1.5		1.4		-
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	M4	Cloudy	Moderate	11:33	Middle 5.		23.7		8.3		33.1		109.1		7.6			3		1.5	1.1
$ M5 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $					Bottom 9.		23.7		8.3	33.1	33.1		109.3		7.7	7.7		3		<0.1	1
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $						23.7							407.0				4.0				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $					Surface 1.	23.7	23.7	8.3	8.3	33.1	33.1	107.2	107.0	7.5	1.5	7.5	1.3	3	1.5	1.6	4
Bottom 11.0 23.7 23.6 8.3 8.3 33.2 33.2 109.6 7.7 7.7 7.7 1.8 1.8 < <0.1 <0.1 M6 Cloudy Moderate 11:55 Middle 2.1 23.7 23.7 8.3 8.3 33.2 33.2 109.6 7.7 7.7 7.7 1.8 1.8 <	M5	Cloudy	Moderate	11:59	Middle 6.		23.7		8.3	33.1	33.1		108.6		7.6			0		1.3	1.0
M6 Cloudy Moderate 11:55 Surface - <td></td> <td></td> <td></td> <td></td> <td>Bottom 11</td> <td>00.7</td> <td>23.6</td> <td></td> <td>83</td> <td>33.2</td> <td>33.2</td> <td></td> <td>109.6</td> <td>7.7</td> <td>77</td> <td>77</td> <td>10</td> <td>8</td> <td><0.1</td> <td><01</td> <td>-</td>					Bottom 11	00.7	23.6		83	33.2	33.2		109.6	7.7	77	77	10	8	<0.1	<01	-
$\begin{array}{c c c c c c c c c c c c c c c c c c c $						23.6	23.0	8.3	0.0	33.2	33.Z	109.6	109.0	7.7	1.1	1.1	1.8		<0.1	<0.1	
M6 Cloudy Moderate 11:55 Middle 2.1 23.7 23.7 8.3 8.3 33.1 108.2 108.5 7.6 7.6 1.0 1.0 1.0 1.1 1.2 <th1.2< th=""> <th1.2< th=""> <th1.2< th=""></th1.2<></th1.2<></th1.2<>					Surface -	-		-		-	-		-			7.0					
	M6	Cloudy	Moderate	11:55	Middle 2	23.7	23.7	8.3	83	33.1	33.1		108.5	7.6	76	7.6		0	1.0 1.1	12	12
	MIO	Cloudy	moderate	11.00		23.7	20.1	8.3	0.0		00.1		100.0	7.6	1.0		1.0	~	1.2	1.2	
					Bottom -	-		-	-	-	-		-	-	-	-			-		

*DA: Depth-Averaged **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Action and Limit Levels for Marine Water Quality on 23 November 2022 (Mid-Ebb Tide)

Parameter			
<u>(unit)</u>	<u>Depth</u>	Action Level	Limit Level
	Stations G1-G4, M1-M5	1	
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
DO in mg/L (See Note 1 and 4)	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>	-	-
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
	Stations G1-G4, M1-M5	-	-
		<u>19.3 NTU</u>	<u>22.2 NTU</u>
Turbidity in NTU (See Note 2 and 4)	Bottom	or 120% of upstream control station's Turbidity at the same tide of the same day	or 130% of upstream control station's Turbidity at the same tide of the same day
		<u>C2: 2.9 NTU</u>	<u>C2: 3.2 NTU</u>
	Station M6	1	
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
	Stations G1-G4		1
		<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Surface	station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
		<u>C2: n.a. mg/L</u>	<u>C2: n.a. mg/L</u>
	Stations M1-M5		
		<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
SS in mg/L	Surface	station's SS at the same tide of	station's SS at the same tide of
(See Note 2 and 4)		the same day	the same day
		<u>C2: n.a. mg/L</u>	<u>C2: n.a. mg/L</u>
	<u>Stations G1-G4, M1-M5</u>	1	
		<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Bottom	station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
		<u>C2: 2.1 mg/L</u>	<u>C2: 2.3 mg/L</u>
	Station M6	ļ	
	Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction Water Quality Monitoring Results on 23 November 2022

(Mid-Flood Tide)

Location	Weather	Sea	Sampling	Depth	(m)	Temperat	ture (°C)	-	н		ity ppt	DO Satur	ation (%)	Dissolved				bidity(NTU			led Solids	,
Location	Condition	Condition**	Time	Depti	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Average		Average		Average		Average		Average	DA*	Value	Average	DA*		Average	DA*
				Surface	1.1	23.7 23.7	23.7	8.3 8.3	8.3	33.1 33.1	33.1	109.2 109.6	109.4	7.6 7.7	7.7		1.1 1.1	1.1		<0.1 <0.1	<0.1	
C1	Cloudy	Moderate	16:47	Middle	9.1	23.7	23.7	8.3	8.3	33.1	33.1	109.8	109.8	7.7	7.7	7.7	1.3	1.3	1.3	1.4	1.3	1.0
CI	Cloudy	Moderate	10.47	Midule		23.7	-	8.3	0.3	33.1	33.1	109.8		7.7	1.1		1.3	1.3	1.5	1.2	1.3	1.0
				Bottom	17.0	23.7 23.6	23.6	8.3 8.3	8.3	33.2 33.2	33.2	110.6 110.7	110.7	7.7 7.8	7.7	7.7	1.4	1.4		1.7 1.5	1.6	
				Surface	1.0	23.7	23.7	8.2	8.2	33.1	33.1	106.4	107.0	7.5	7.5		1.7	1.7		1.7	1.6	
	- · ·					23.7 23.7		8.2 8.3		33.1		107.5 109.4		7.5 7.7		7.6	1.7 1.4			1.5 2.3		-
C2	Cloudy	Moderate	16:12	Middle	15.9	23.7	23.7	8.3	8.3	<u>33.2</u> 33.2	33.2	109.4	109.4	7.7	7.7		1.4	1.4	1.9	2.1	2.2	2.2
				Bottom	31.0	23.7 23.7	23.7	8.3	8.3	33.2 33.2	33.2	108.5	108.5	7.6 7.6	7.6	7.6	2.5	2.5		2.5 2.8	2.7	
				Surface	1.0	23.7	23.7	8.3 8.2	8.2	32.9	32.9	108.5 106.6	106.8	7.5	7.5		2.5 0.9	0.9		1.5	1.5	
				Sunace	1.0	23.7	23.1	8.2	0.2	32.9	32.9	106.9	100.0	7.5	1.5	7.6	0.9	0.9		1.4	1.5	-
G1	Cloudy	Moderate	16:30	Middle	4.1	23.7 23.7	23.7	8.3 8.3	8.3	<u>33.1</u> 33.1	33.1	110.1 109.9	110.0	7.7 7.7	7.7		1.0 0.9	1.0	1.1	1.7 1.9	1.8	1.9
				Bottom	7.1	23.7	23.7	8.3	8.3	33.1	33.1	109.6	109.6	7.7	7.7	7.7	1.4	1.5		2.3	2.5	
						23.7 23.7		8.3 8.2		33.1 32.9		109.5 106.8		7.7 7.5			1.5 0.8			2.6	-	
				Surface	1.0	23.7	23.7	8.2	8.2	32.9	32.9	107.0	106.9	7.5	7.5	7.6	0.8	0.8		1.4	1.3	
G2	Cloudy	Moderate	16:23	Middle	5.0	23.7 23.7	23.7	8.3 8.3	8.3	33.1 33.1	33.1	110.4 110.2	110.3	7.7	7.7	7.0	1.0 1.0	1.0	1.0	1.6 1.9	1.8	1.9
				Bottom	0.1	23.7	23.7	8.3	8.3	33.1	33.2	110.2	110.1	7.7	7.7	77	1.0	1 1		2.6	2.5	•
				Bottom	9.1	23.7	23.7	8.3	8.3	33.2	33.2	110.0	110.1	7.7	1.1	7.7	1.1	1.1		2.4	2.5	
				Surface	1.1	23.7 23.7	23.7	8.2 8.2	8.2	33.0 33.0	33.0	107.4 107.7	107.6	7.5 7.5	7.5		0.7	0.7		2.3	2.2	
G3	Cloudy	Moderate	16:32	Middle	4.1	23.7	23.7	8.3	8.3	33.1	33.1	109.0	109.0	7.6	7.6	7.6	0.6	0.6	0.8	1.8	1.8	1.8
00	Cloudy	Moderate	10.52			23.7 23.7		8.3		33.1 33.1		108.9 109.6		7.6			0.7 0.9		0.0	1.7		- 1.0
				Bottom	7.0	23.7	23.7	8.3 8.3	8.3	33.1	33.1	109.6	109.7	7.7 7.7	7.7	7.7	0.9	0.9		1.3 1.5	1.4	
				Surface	1.1	23.8	23.8	8.3	8.3	33.0	33.0	108.9	108.9	7.6	7.6		1.1	1.1		1.4	1.4	
04	0		40.07		10	23.8 23.7	00.7	8.3 8.3	0.0	33.0 33.1	00.4	108.8 110.1	440.4	7.6 7.7		7.7	1.1 1.0	4.0		1.3 1.8	4.7	47
G4	Cloudy	Moderate	16:37	Middle	4.0	23.7	23.7	8.3	8.3	33.1	33.1	110.1	110.1	7.7	7.7		1.0	1.0	1.1	1.6	1.7	1.7
				Bottom	6.9	23.7 23.7	23.7	8.3 8.3	8.3	<u>33.1</u> 33.1	33.1	109.9 109.8	109.9	7.7 7.7	7.7	7.7	1.1 1.2	1.2		2.1	2.2	
				Surface	1.1	23.7	23.7	8.2	8.2	33.0	33.0	103.8	104.0	7.3	7.3		0.9	0.9		1.8	1.7	
				ounace	1.1	23.7		8.2		33.0		104.1		7.3		7.3	0.9	0.3		1.6		_
M1	Cloudy	Moderate	16:27	Middle	3.1	23.7 23.7	23.7	8.2 8.2	8.2	33.1 33.1	33.1	103.6 104.0	103.8	7.3 7.3	7.3		1.0 1.0	1.0	0.9	2.5	2.4	2.4
				Bottom	5.0	23.7	23.7	8.2	8.2	33.1	33.1	104.3	104.4	7.3	7.3	7.3	1.0	1.0		2.9	3.1	1
						23.7 23.7		8.2 8.3		33.1 33.0		104.4 108.9		7.3 7.6			1.0 1.1			3.2 3.1		<u> </u>
				Surface	1.0	23.7	23.7	8.3	8.3	33.0	33.0	109.2	109.1	7.6	7.6	7.7	1.1	1.1		2.9	3.0	
M2	Cloudy	Moderate	16:21	Middle	6.0	23.7 23.7	23.7	8.3 8.3	8.3	33.1 33.1	33.1	110.2 110.1	110.2	7.7 7.7	7.7	1.1	1.2 1.2	1.2	1.2	2.6	2.5	2.4
				Bottom	11.0	23.7	23.7	8.3	8.3	33.2	33.2	110.1	110.0	7.7	7.7	7.7	1.2	1.5		1.8	1.7	
				Bollom	11.0	23.7	23.7	8.3	8.3	33.2	33.2	110.0	110.0	7.7	1.1	1.1	1.5	1.5		1.6	1.7	
				Surface	1.1	23.7 23.7	23.7	8.3 8.3	8.3	33.0 33.0	33.0	108.0 108.2	108.1	7.6 7.6	7.6		0.9	0.9		3.2	3.1	
M3	Cloudy	Moderate	16:34	Middle	4.0	23.7	23.7	8.3	8.3	33.1	33.1	108.1	108.2	7.6	7.6	7.6	0.9	0.9	0.9	2.8	2.7	2.6
MO	Cloudy	moderate	10.04			23.7 23.7		8.3 8.3		33.1 33.1		108.2 108.5		7.6 7.6			0.9		0.0	2.5 2.1		- 2.0
				Bottom	7.2	23.7	23.7	8.3	8.3	33.1	33.1	108.8	108.7	7.6	7.6	7.6	1.0	1.0		2.1	2.2	
				Surface	1.1	23.7	23.7	8.3	8.3	33.1	33.1	108.4	108.5	7.6	7.6		1.5	1.4		1.7	1.7	
	Claudu	Madarata	40.40	Middle	5.4	23.7 23.7	00.7	8.3 8.3	0.0	33.1 33.1	22.4	108.6 109.2	100.0	7.6 7.7	77	7.6	1.4 1.4	4.2		1.6 1.8	47	47
M4	Cloudy	Moderate	16:18	Middle	5.1	23.7	23.7	8.3	8.3	33.1	33.1	109.2	109.2	7.7	7.7		1.3	1.3	1.4	1.6	1.7	1.7
				Bottom	8.9	23.7 23.7	23.7	8.3 8.3	8.3	33.2 33.2	33.2	109.2 109.3	109.3	7.7 7.7	7.7	7.7	1.3 1.3	1.3		1.7 1.9	1.8	
				Surface	1.1	23.7	23.7	8.3	8.3	33.1	33.1	103.5	107.7	7.5	7.5		1.3	1.3		2.8	2.9	
				Sunace		23.7		8.3		33.1		107.8		7.6		7.6	1.3			3.0		-
M5	Cloudy	Moderate	16:44	Middle	6.1	23.7 23.7	23.7	8.3 8.3	8.3	33.1 33.1	33.1	108.9 108.8	108.9	7.6 7.6	7.6		2.0	2.0	1.8	2.6 2.5	2.6	2.5
				Bottom	11.1	23.6	23.6	8.3	8.3	33.2	33.2	109.9	110.0	7.7	7.7	7.7	2.0	2.0		2.2	2.1	
						23.6		8.3		33.2		110.0		7.7			2.0			2.0		
				Surface	-	-	-	-	-	-	-	-	-	-	-	7.6	-	-		-	-	
M6	Cloudy	Moderate	16:40	Middle	2.1	23.7 23.7	23.7	8.3	8.3	33.1 33.1	33.1	109.0	109.2	7.6	7.6	7.0	8.0	8.0	0.9	2.3	2.4	2.4
	-				-	- 23.1		8.3		- 33.1		109.4		7.7			8.0			2.4		1
			1	Bottom	-	-	-	-	1 -	-	1 -	-	-	-	-	-	-	1 -		-	-	1

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Action and Limit Levels for Marine Water Quality on 23 November 2022 (Mid-Flood Tide)

Parameter	Donth	Action Level	Limit Level
<u>(unit)</u>	<u>Depth</u>	Action Level	Limit Level
	Stations G1-G4, M1-M5	I	
DO in mg/L	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>
(See Note 1 and 4)	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>
	Stations G1-G4, M1-M5		
		<u>19.3 NTU</u>	<u>22.2 NTU</u>
Turbidity in NTU (See Note 2 and 4)	Bottom	or 120% of upstream control station's Turbidity at the same tide of the same day	or 130% of upstream control station's Turbidity at the same tide of the same day
		<u>C1: 1.7 NTU</u>	<u>C1: 1.9 NTU</u>
	<u>Station M6</u>		
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>
	Stations G1-G4		
		<u>6.0 mg/L</u>	<u>6.9 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Surface	station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
	~	<u>C1: n.a. mg/L</u>	<u>C1: n.a. mg/L</u>
	Stations M1-M5	I	
		<u>6.2 mg/L</u>	<u>7.4 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
SS in mg/L	Surface	station's SS at the same tide of	station's SS at the same tide of
(See Note 2 and 4)		the same day	the same day
		<u>C1: n.a. mg/L</u>	<u>C1: n.a. mg/L</u>
	Stations G1-G4, M1-M5		
		<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
		or 120% of upstream control	or 130% of upstream control
	Bottom	station's SS at the same tide of	station's SS at the same tide of
		the same day	the same day
		<u>C1: 1.9 mg/L</u>	<u>C1: 2.1 mg/L</u>
	<u>Station M6</u>		
	Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction Water Quality Monitoring Results on 25 November 2022

(Mid-Ebb Tide)

Location	Weather	Sea	Sampling	Depth	(m)	Temperature (°C)		н		ty ppt	DO Satur	ation (%)		d Oxygen	(mg/L)	Turbidity(NT		-	led Solids	
	Condition	Condition**	Time		····/	Value Average	Value	Average		Average		Average		Average	DA*	Value Average	DA*		Average	DA*
				Surface	1.0	23.5 23.5 23.5	8.3 8.3	8.3	33.1 33.1	33.1	100.6 100.6	100.6	7.1	7.1		2.0 2.0		1.4 1.2	1.3	
C1	Cloudy	Moderate	13:26	Middle	9.1	23.5 23.5	8.3	8.3	33.2	33.2	100.6	100.6	7.1	7.1	7.1	1.3 1.3	1.6	1.1	1.2	1.2
01	cloudy	modorato	10.20			23.5	8.3 8.3		33.2 33.2		100.6 100.3		7.1			1.3		1.2 1.1		
				Bottom	17.0	23.5 23.5	8.3	8.3	33.2	33.2	100.3	100.3	7.0	7.0	7.0	1.6		1.1	1.1	
				Surface	1.0	23.5 23.5 23.5	8.3 8.3	8.3	33.1 33.1	33.1	101.0 101.0	101.0	7.1	7.1		1.7 1.8 1.8		<0.1 <0.1	<0.1	
C2	Cloudy	Moderate	12:51	Middle	16.2	23.5 00.5	8.3	8.3	33.3	33.3	100.1	100.1	7.0	7.0	7.1	2.7 0.7	2.8	1.1	1.1	1.0
	,					23.5	8.3 8.3		33.3 33.3		100.1 99.6		7.0 7.0			2.6		1.1 1.8		
				Bottom	31.1	23.5 23.5	8.3	8.3	33.3	33.3	99.4	99.5	7.0	7.0	7.0	4.0 4.0		1.9	1.9	
				Surface	1.0	23.5 23.5 23.5	8.3 8.3	8.3	33.0 33.0	33.0	100.8 100.7	100.8	7.1	7.1	7 4	<u>1.1</u> 1.2 1.1		1.4 1.3	1.4	
G1	Cloudy	Moderate	13:08	Middle	4.1	23.5 23.5 23.5	8.3	8.3	33.1	33.1	100.8	100.8	7.1 7.1	7.1	7.1	1.6 1.6	1.4	1.2	1.3	1.3
				Bottom	7.1	23.5 23.5 23.5 23.5	8.3 8.3	8.3	33.1 33.2	33.2	100.7 100.5	100.5	7.1	7.1	7.1	1.6 1.5 1.4		1.3 1.2	1.2	
				DOLLOIN	7.1	23.5 23.5	8.3	0.3	33.2	33.2	100.5	100.5	7.1 7.1	7.1	7.1	1.4 1.4 1.9 1.0		1.1	1.2	
				Surface	1.0	23.5 23.5 23.5	8.3 8.3	8.3	33.1 33.1	33.1	100.6 100.6	100.6	7.1	7.1	7.1	1.9 1.9		1.3 1.4	1.4	
G2	Cloudy	Moderate	13:02	Middle	5.1	23.5 23.5 23.5	8.3 8.3	8.3	33.2 33.2	33.2	100.6 100.5	100.6	7.1	7.1	7.1	2.0 2.0	1.9	1.2 1.1	1.2	0.8
				Bottom	8.9	23.5 23.5 23.5	8.3	8.3	33.2	33.2	100.5	100.6	7.1	7.1	7.1	2.0 1.8 1.8	-	<0.1	<0.1	
				Bollom		23.5	8.3 8.3		33.2 33.0		100.6 100.6	100.0	7.1		7.1	1.8 1.8 1.1 1.0		<0.1	<0.1	
				Surface	1.2	23.5 23.5	8.3	8.3	33.0	33.0	100.6	100.6	7.1	7.1	7.1	1.0 1.0		<0.1 <0.1	<0.1	
G3	Cloudy	Moderate	13:11	Middle	4.1	23.5 23.5 23.5	8.3 8.3	8.3	33.1 33.1	33.1	100.7 100.7	100.7	7.1	7.1	7.1	<u>1.2</u> 1.3	1.3	<0.1 <0.1	<0.1	0.4
				Bottom	7.1	23.5 23.5	8.3	8.3	33.2	33.2	100.7	100.4	7.1	7.1	7.1	1.7 1.7	1	1.2	1.2	
						23.5	8.3 8.3		33.2 33.0		100.4 100.6		7.1		7.1	1.7		1.1 <0.1		┝───┤
				Surface	1.1	23.5 23.5	8.3	8.3	33.0	33.0	100.6	100.6	7.1	7.1	7.1	1.2		<0.1	<0.1	
G4	Cloudy	Moderate	13:15	Middle	4.0	23.5 23.5 23.5	8.3 8.3	8.3	33.1 33.1	33.1	100.6 100.6	100.6	7.1	7.1		1.5 1.5 1.5	1.6	1.2 1.2	1.2	0.9
				Bottom	7.0	23.5 23.5	8.3	8.3	33.2	33.2	100.6	100.6	7.1	7.1	7.1	2.0 2.1	1	1.4	1.4	
						23.5	8.3 8.3		33.2 33.1		100.6 100.9		7.1			2.2		1.4 1.4		┝───┤
				Surface	1.0	23.5 23.5	8.3	8.3	33.1	33.1	100.9	100.9	7.1	7.1	7.1	1.5		1.2	1.3	
M1	Cloudy	Moderate	13:06	Middle	3.1	23.5 23.5	8.3 8.3	8.3	33.1 33.1	33.1	100.8 100.8	100.8	7.1	7.1		1.5 1.5 1.5	1.7	1.6 1.4	1.5	1.5
				Bottom	5.0	23.5 23.5	8.3	8.3	33.2	33.2	100.7	100.7	7.1	7.1	7.1	1.9 1.9	1	1.7	1.8	
						23.5	8.3 8.3		33.2 33.1		100.7 100.6		7.1			1.9		1.9 1.9		┝───┤
				Surface	1.1	23.5 23.5 23.5	8.3	8.3	33.1	33.1	100.6	100.6	7.1	7.1	7.1	1.9	-	1.6	1.8	
M2	Cloudy	Moderate	12:59	Middle	6.0	23.5 23.5 23.5	8.3 8.3	8.3	33.2 33.2	33.2	100.5 100.5	100.5	7.1	7.1		2.0 2.0 2.0	1.7	1.3 1.5	1.4	1.5
				Bottom	11.0	23.5 23.5	8.3	8.3	33.2	33.2	100.4	100.5	7.1	7.1	7.1	1.4 1.4	1	1.3	1.3	
				Surface	1.1	23.5 23.5 23.5 23.5	8.3 8.3	8.3	33.2 33.0	33.0	100.5 100.6	100.6	7.1	7.1		1.4 1.0 1.0		1.3 1.4	1.4	<u>├</u> ──┤
				Sunace		23.5	8.3 8.3		33.0 33.1		100.6		7.1 7.1		7.1	1.0 1.5 1.5		1.4 1.2	1.4	
M3	Cloudy	Moderate	13:13	Middle	4.0	23.5 23.5	8.3	8.3	33.1	33.1	100.6 100.6	100.6	7.1	7.1		1.5	1.6	1.2	1.2	0.9
				Bottom	7.0	23.5 23.5 23.5	8.3 8.3	8.3	33.2 33.2	33.2	100.5 100.5	100.5	7.1	7.1	7.1	2.2 2.3		<0.1 <0.1	<0.1	
				Surface	1.2	23.5 23.5	8.3	8.3	33.1	33.1	100.8	100.8	7.1	7.1		2.2 2.1		1.2	1.1	
						23.5	8.3 8.3		33.1 33.2		100.7 100.6		7.1		7.1	2.1		1.0 1.1		
M4	Cloudy	Moderate	12:56	Middle	5.1	23.5	8.3	8.3	33.2	33.2	100.6	100.6	7.1	7.1		2.0 1.9	1.9	1.2	1.2	1.2
				Bottom	9.0	23.5 23.5 23.5	8.3 8.3	8.3	33.2 33.2	33.2	100.6 100.6	100.6	7.1	7.1	7.1	1.6 1.6		1.4 1.4	1.4	
				Surface	1.1	23.5 23.5	8.3	8.3	33.1	33.1	100.6	100.6	7.1	7.1		2.0 2.0		1.2	1.2	
	a b		10.00			23.5	8.3 8.3		33.1 33.2		100.6 100.7		7.1		7.1	2.0		1.2 1.3		
M5	Cloudy	Moderate	13:23	Middle	6.2	23.5 23.5	8.3	8.3	33.2	33.2	100.7	100.7	7.1	7.1		1.6	1.7	1.4	1.4	1.3
				Bottom	11.1	23.5 23.5	8.3 8.3	8.3	33.2 33.2	33.2	100.4 100.4	100.4	7.1	7.1	7.1	1.4 1.5 1.5		1.4 1.4	1.4	
				Surface	-	-	-	-	-	-	-	-	-	-				-	-	
M6	Claudu	Madarat-	12:10		2.4	- 23.5 22.5	- 8.3	0.2	- 33.0	22.0	- 100.6	100.6	- 7.1	7.4	7.1	- 1.0 1.0	10	- 1.2	10	1.2
IVID	Cloudy	Moderate	13:19	Middle	2.1	23.5	8.3	8.3	33.0	33.0	100.6	100.6	7.1	7.1		1.0	1.0	1.2	1.2	1.2
				Bottom	-		-	+ -	-	-	-	-	-		-			-	-	
										•				•				-		

Remarks:

*DA: Depth-Averaged **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Action and Limit Levels for Marine Water Quality on 25 November 2022 (Mid-Ebb Tide)

Parameter	<u>Depth</u>	Action Level	Limit Level
<u>(unit)</u>	Stations G1-G4, M1-M5		
	Depth Average	4.9 mg/L	4.6 mg/L
DO in mg/L (See Note 1 and 4)	Bottom	4.2 mg/L	3.6 mg/L
(See Note 1 and 4)	Station M6	<u></u>	<u></u>
	Intake Level	5.0 mg/L	4.7 mg/L
	Stations G1-G4, M1-M5		<u></u>
		<u>19.3 NTU</u>	<u>22.2 NTU</u>
Turbidity in NTU (See Note 2 and 4)	Bottom Station M6 Intake Level Stations G1-G4 Surface	or 120% of upstream control station's Turbidity at the same tide of the same day <u>C2: 4.8 NTU</u> <u>19.0 NTU</u> <u>6.0 mg/L</u> or 120% of upstream control station's SS at the same tide of the same day	or 130% of upstream control station's Turbidity at the same tide of the same day <u>C2: 5.2 NTU</u> <u>19.4 NTU</u> or 130% of upstream control station's SS at the same tide of the same day
		<u>C2: n.a. mg/L</u>	<u>C2: n.a. mg/L</u>
	Stations M1-M5		<u>02. n.a. mg/D</u>
		<u>6.2 mg/L</u>	7.4 mg/L
SS in mg/L	Surface	or 120% of upstream control station's SS at the same tide of the same day	or 130% of upstream control station's SS at the same tide of the same day
(See Note 2 and 4)		<u>C2: n.a. mg/L</u>	<u>C2: n.a. mg/L</u>
	Stations G1-G4, M1-M5		
		<u>6.9 mg/L</u>	<u>7.9 mg/L</u>
	Bottom	or 120% of upstream control station's SS at the same tide of the same day	or 130% of upstream control station's SS at the same tide of the same day
		<u>C2: 2.2 mg/L</u>	<u>C2: 2.4 mg/L</u>
	Station M6	<u></u>	<u></u>
	Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>
		1	I

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction Water Quality Monitoring Results on 25 November 2022

(Mid-Flood Tide)

Location	Weather	Sea	Sampling	Depth	(m)	Temperat	ure (°C)	р	н	Salin	ity ppt	DO Satur	ation (%)	Dissolve	ed Oxygen	(mg/L)	Turbidity(NT	U)	Suspen	ded Solids	(mg/L)
	Condition	Condition**	Time	Sehu	····,		Average	Value	Average	Value	Average		Average		Average	DA*	Value Average	DA*	Value	Average	DA*
				Surface	1.0	23.5 23.5	23.5	8.3 8.3	8.3	33.1 33.1	33.1	100.6 100.6	100.6	7.1	7.1		2.0 2.0		1.8	1.8	
C1	Cloudy	Moderate	8:19	Middle	9.0	23.5	23.5	8.3	8.3	33.1	33.2	100.6	100.6	7.1	7.1	7.1	2.0 2.0 1.4 1.4	1.6	1.7	1.4	1.4
CI	Cloudy	woderate	0.19	widdle	9.0	23.5	23.5	8.3	0.3	33.2	- <u>3</u> 3.2	100.6	100.6	7.1	7.1		1.5	1.0	1.3	1.4	1.4
				Bottom	16.9	23.5 23.5	23.5	8.3 8.3	8.3	33.2 33.2	33.2	100.3 100.3	100.3	7.0	7.0	7.0	<u>1.4</u> 1.5		1.2	1.2	
				Surface	1.1	23.5	23.5	8.0	8.0	33.1	- 33.1	100.3	101.1	7.1	7.1		1.3 1.3		1.5	1.6	
				Gunade		23.5		8.0		33.1		101.1		7.1		7.1	1.3	-	1.7	1.0	
C2	Cloudy	Moderate	7:40	Middle	16.1	23.5 23.5	23.5	8.3 8.3	8.3	33.3 33.3	33.3	100.1 100.1	100.1	7.0	7.0		2.1 2.2	2.7	1.4 1.4	1.4	1.4
				Bottom	31.1	23.5	23.5	8.3	8.3	33.3	33.3	99.7	99.7	7.0	7.0	7.0	4.6 4.6		1.1	1.2	
				o /		23.5 23.5		8.3 8.3		33.3 33.0		99.7 100.8		7.0			4.7		1.2 <0.1		
				Surface	1.0	23.5	23.5	8.3	8.3	33.0	33.0	100.8	100.8	7.1	7.1	7.1	1.1		<0.1	<0.1	
G1	Cloudy	Moderate	8:01	Middle	4.1	23.5 23.5	23.5	8.3 8.3	8.3	33.1 33.1	33.1	100.7 100.7	100.7	7.1	7.1		<u>1.5</u> 1.5	1.4	1.4 1.3	1.4	1.0
				Bottom	7.1	23.5	23.5	8.3	8.3	33.1	33.2	100.7	100.7	7.1	7.1	7.1	1.6 1.6		1.6	1.7	1
				Bottom	7.1	23.5	23.5	8.3	0.3	33.2	- <u>-</u>	100.6	100.7	7.1	7.1	7.1	1.6		1.7	1.7	
				Surface	1.1	23.5 23.5	23.5	8.3 8.3	8.3	33.1 33.1	33.1	100.6 100.6	100.6	7.1	7.1		1.9 1.9		1.3 1.2	1.3	
G2	Cloudy	Moderate	7:55	Middle	5.1	23.5	23.5	8.3	8.3	33.2	33.2	100.5	100.5	7.1	7.1	7.1	2.0 2.0	1.9	1.6	1.8	1.8
02	Cloudy	moderate	7.00	Middle		23.5 23.5		8.3 8.3		33.2 33.2		100.5 100.5		7.1			2.0	- 1.5	1.9 2.4		1.0
				Bottom	9.0	23.5	23.5	8.3	8.3	33.2	33.2	100.5	100.5	7.1	7.1	7.1	1.8 1.8		2.4	2.3	
				Surface	1.1	23.5	23.5	8.3	8.3	33.0	33.0	100.6	100.6	7.1	7.1		1.2 1.1		1.4	1.5	
	<u>.</u>					23.5 23.5		8.3 8.3		33.0 33.1	00.4	100.6 100.7	400 7	7.1 7.1		7.1	1.1 ^{1.1} 1.4 1.2		1.5 1.9		
G3	Cloudy	Moderate	8:04	Middle	4.1	23.5	23.5	8.3	8.3	33.1	33.1	100.6	100.7	7.1	7.1		1.3	1.3	1.7	1.8	1.8
				Bottom	7.2	23.5 23.5	23.5	8.3 8.3	8.3	33.1 33.2	33.2	100.6 100.6	100.6	7.1	7.1	7.1	1.5 1.6 1.5		2.1 2.3	2.2	
				Surface	1.1	23.5	23.5	8.3	8.3	33.0	- 33.0	100.6	100.6	7.1	7.1		1.2 1.2		1.3	1.4	
						23.5 23.5		8.3 8.3		33.0 33.1		100.6 100.6		7.1		7.1	1.2	-	1.4 1.6		-
G4	Cloudy	Moderate	8:08	Middle	4.0	23.5	23.5	8.3	8.3	33.1	33.1	100.6	100.6	7.1	7.1		1.4 1.4	1.5	1.9	1.8	1.8
				Bottom	7.0	23.5	23.5	8.3	8.3	33.1	33.1	100.6	100.6	7.1	7.1	7.1	1.8 1.8		2.1 2.3	2.2	1
				o (4.0	23.5 23.5		8.3 8.3		33.1 33.1		100.6 101.0		7.1 7.1			1.9 1.0 1.6 1.0		2.3		
				Surface	1.0	23.5	23.5	8.3	8.3	33.1	33.1	101.0	101.0	7.1	7.1	7.1	1.6		1.7	1.7	
M1	Cloudy	Moderate	7:59	Middle	3.1	23.5 23.5	23.5	8.3 8.3	8.3	33.1 33.1	33.1	100.8 100.8	100.8	7.1	7.1		1.5 1.6 1.5	1.6	1.6 1.8	1.7	1.9
				Bottom	5.0	23.5	23.5	8.3	8.3	33.1	- 33.1	100.7	100.7	7.1	7.1	7.1	1.7 1.7		2.4	2.3	1
				Dottom	5.0	23.5	20.0	8.3	0.5	33.1	55.1	100.7	100.7	7.1	7.1	7.1	1.8 ^{1.7}		2.2	2.5	
				Surface	1.1	23.5 23.5	23.5	8.3 8.3	8.3	33.1 33.1	33.1	100.6 100.6	100.6	7.1	7.1	7.4	1.9 1.9		2.2 2.4	2.3	
M2	Cloudy	Moderate	7:52	Middle	5.9	23.5	23.5	8.3	8.3	33.2	33.2	100.4	100.5	7.1	7.1	7.1	2.0 2.0	1.7	1.7	1.6	1.8
	,					23.5 23.5		8.3 8.3		33.1 33.2		100.5 100.4		7.1			1.9		1.5 1.4		-
				Bottom	11.0	23.5	23.5	8.3	8.3	33.2	33.2	100.4	100.4	7.1	7.1	7.1	1.4 1.4		1.5	1.5	
				Surface	1.0	23.5 23.5	23.5	8.3 8.3	8.3	33.0 33.0	33.0	100.6 100.6	100.6	7.1	7.1		<u>1.0</u> 1.0		1.6 1.9	1.8	
M3	Cloudy	Madarata	8:06	Middle	4.0	23.5	23.5	8.3	8.3	33.1	- 33.1	100.6	100.6	7.1	7.1	7.1	1.4	1.4	2.1	2.2	2.2
IVIS	Cloudy	Moderate	0.00	Middle	4.0	23.5	23.5	8.3	0.3	33.1	33.1	100.6	100.6	7.1	7.1		1.3	1.4	2.4	2.3	2.2
				Bottom	7.1	23.5 23.5	23.5	8.3 8.3	8.3	33.1 33.2	33.2	100.6 100.6	100.6	7.1	7.1	7.1	2.0 2.0		2.6	2.5	
				Surface	1.2	23.5	23.5	8.3	8.3	33.1	- 33.1	100.8	100.8	7.1	7.1		2.1 2.2		1.9	1.8	
						23.5		8.3		33.1 33.2		100.8		7.1		7.1	2.2	-	1.6 2.1		-
M4	Cloudy	Moderate	7:49	Middle	5.0	23.5 23.5	23.5	8.3 8.3	8.3	33.2	33.2	100.6 100.6	100.6	7.1	7.1		2.0 2.0	1.9	2.1	2.2	2.1
				Bottom	9.0	23.5	23.5	8.3	8.3	33.2	33.2	100.6	100.6	7.1	7.1	7.1	1.6 1.6		2.5	2.5	1
				o (4.0	23.5 23.5		8.3 8.3		33.2 33.1		100.6 100.6	400.0	7.1			1.6		2.4		
				Surface	1.0	23.5	23.5	8.3	8.3	33.1	33.1	100.6	100.6	7.1	7.1	7.1	2.0 2.1		1.8	1.8	
M5	Cloudy	Moderate	8:16	Middle	6.1	23.5 23.5	23.5	8.3 8.3	8.3	33.2 33.2	33.2	100.7 100.7	100.7	7.1	7.1		<u>1.6</u> 1.6	1.7	1.8	1.9	1.9
				Bottom	11.0	23.5	23.5	8.3	8.3	33.2	33.2	100.6	100.6	7.1	7.1	7.1	1.4 1.4	1	2.2	2.2	1
				DOLLOIN	11.0	23.5	20.0	8.3	0.3	33.2	33.Z	100.5	100.0	7.1	1.1	1.1	1.4		2.1	2.2	
				Surface	-	-	-	-	-	-	-	-	-	-		7 4			-	-	
M6	Cloudy	Moderate	8:12	Middle	2.1	23.5	23.5	8.3	8.3	33.0	33.0	100.6	100.6	7.1	7.1	7.1	8.0 8.0	1.0	1.6	1.7	1.7
-	,					23.5		8.3		33.0		100.6		7.1			8.0 0.0		1.8		
			1	Bottom			-	-	+ -		4 -	-	-	<u> </u>	+ -	-	F	1	-	-	1

Remarks:

*DA: Depth-Averaged **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Action and Limit Levels for Marine Water Quality on 25 November 2022 (Mid-Flood Tide)

Parameter	Depth	Action Level	Limit Level									
<u>(unit)</u>												
	Stations G1-G4, M1-M5											
DO in mg/L	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>									
(See Note 1 and 4)	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>									
	<u>Station M6</u>											
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>									
	Stations G1-G4, M1-M5	•										
		<u>19.3 NTU</u>	<u>22.2 NTU</u>									
Turbidity in NTU (See Note 2 and 4)	Bottom	or 120% of upstream control station's Turbidity at the same tide of the same day	or 130% of upstream control station's Turbidity at the same tide of the same day									
		<u>C1: 1.7 NTU</u>	<u>C1: 1.9 NTU</u>									
	Station M6											
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>									
	Stations G1-G4											
		<u>6.0 mg/L</u>	<u>6.9 mg/L</u>									
		or 120% of upstream control	or 130% of upstream control									
	Surface	station's SS at the same tide of	station's SS at the same tide of									
		the same day	the same day									
		<u>C1: 2.1 mg/L</u>	<u>C1: 2.3 mg/L</u>									
	Stations M1-M5	1	[
		<u>6.2 mg/L</u>	<u>7.4 mg/L</u>									
		or 120% of upstream control	or 130% of upstream control									
SS in mg/L	Surface	station's SS at the same tide of	station's SS at the same tide of									
(See Note 2 and 4)		the same day	the same day									
		<u>C1: 2.1 mg/L</u>	<u>C1: 2.3 mg/L</u>									
	Stations G1-G4, M1-M5	1	l									
		<u>6.9 mg/L</u>	<u>7.9 mg/L</u>									
		or 120% of upstream control	or 130% of upstream control									
	Bottom	station's SS at the same tide of	station's SS at the same tide of									
		the same day	the same day									
		<u>C1: 1.4 mg/L</u>	<u>C1: 1.5 mg/L</u>									
	Station M6											
	Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>									

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction Water Quality Monitoring Results on 28 November 2022

(Mid-Ebb Tide)

Location	Weather	Sea	Sampling	Depth (n	m)	Temperat	ture (°C)	p	н	Salini	ty ppt	DO Satura	ation (%)	Dissolve	d Oxygen	(mg/L)	Turbidit	y(NTU))	Suspen	ded Solids	(mg/L)
2004100	Condition	Condition**	Time	Pohru (I	,	Value	Average	Value	Average		Average		Average	Value	Average	DA*		rage	DA*	Value	Average	DA*
				Surface	1.1	24.4	24.4	8.2	8.2	33.0	33.0	94.5	94.5	6.5	6.5		1.5 1	.5		2.6	2.5	
61	Current	Calm	14:40	Minhalla	0.0	24.4 23.6	22.0	8.2 8.3	0.0	33.0 33.2	22.0	94.4 93.3	02.4	6.5 6.5	0.5	6.5	1.5 2.6		25	2.3	1.0	4.7
C1	Sunny	Calm	14:40	Middle	9.0	23.6	23.6	8.2	8.2	33.2	33.2	92.9	93.1	6.5	6.5		2.6	2.6	3.5	1.5	1.6	1.7
				Bottom 1	17.1 -	23.5 23.5	23.5	8.3 8.3	8.3	33.3 33.3	33.3	93.9 93.9	93.9	6.6 6.6	6.6	6.6	<u>6.4</u> 6.3 6	6.3		1.1	1.2	
				Surface	1.0	23.7	23.7	8.2	8.2	33.0	33.0	92.4	92.5	6.5	6.5		1.5	.5	-	1.8	1.7	-
				Sunace	1.0	23.7	23.1	8.2	0.2	33.0 33.0 33.1	33.0	92.5	92.5	6.5	0.5	6.5	1.5	.5		1.6	1.7	4
C2	Sunny	Calm	14:00	Middle 1	16.0	23.7 23.7	23.7	<u>8.2</u> 8.2	8.2	33.1	33.1	92.0 92.0	92.0	6.5 6.5	6.5		1.8 1.8	.8	2.2	2.4	2.3	2.5
				Bottom 3	31.1	23.6	23.6	8.3	8.3	33.2	33.2	92.5	92.5	6.5	6.5	6.5	3.4 2	3.3		3.2	3.5	1
						23.6 23.8		8.3 8.2		33.2 33.0		92.5 92.3		6.5 6.5			3.3			3.7 1.6		
				Surface	1.1 -	23.8	23.8	8.2	8.2	33.0	33.0	92.0	92.2	6.4	6.4	6.4	2.0 2	2.1		1.9	1.8	
G1	Sunny	Calm	14:20	Middle	4.0	23.7	23.7	8.2	8.2	33.0	33.0	91.4	91.4	6.4	6.4	0.4	2.2 2	2.2	2.2	2.8	2.7	2.6
	-			Detter	7.0	23.7 23.6	00.0	<u>8.2</u> 8.2	0.0	33.0 33.1	00.4	91.4 91.6	04.7	6.4 6.4	0.4	0.4	2.2			2.5 3.3	0.5	-
				Bottom	7.2 -	23.6	23.6	8.2	8.2	33.2	33.1	91.8	91.7	6.4	6.4	6.4	2.5 2	2.5		3.7	3.5	
				Surface	1.1	24.0 23.9	24.0	<u>8.2</u> 8.2	8.2	33.0 33.0	33.0	93.8 93.5	93.7	6.5 6.5	6.5		1.4 1 1.3 1	.4		2.5 2.8	2.7	
G2	Sunny	Calm	14:12	Middle	E 1	23.9	23.7	8.2	8.2	33.1	33.1	93.5	92.3	6.5	6.5	6.5	47	.7	1.7	1.9	1.8	1.9
62	Sunny	Calm	14.12	Middle	5.1	23.7	23.1	8.2	0.2	33.1	33.1	92.4	92.5	6.5	0.5		1.6	.7	1.7	1.7	1.0	- 1.9
				Bottom	9.0	23.6 23.6	23.6	8.2 8.2	8.2	33.1 33.1	33.1	92.0 91.9	92.0	6.5 6.5	6.5	6.5	2.1 2 2.1 2	2.1		1.4	1.4	
				Surface	1.1	24.0	23.9	8.2	8.2	33.0	33.0	92.4	92.2	6.4	6.4		1.6 1	.6	-	1.8	1.7	
						23.9 23.7		8.2 8.2		33.0 33.0		92.0 91.6		6.4 6.4		6.4	1.6			1.6		-
G3	Sunny	Calm	14:23	Middle	4.1	23.7	23.7	8.2	8.2	33.0	33.0	91.5	91.6	6.4	6.4		1.7 1	.7	1.8	2.1	2.3	2.3
				Bottom	7.0	23.7	23.7	8.2	8.2	33.0 33.1 33.1	33.1	91.8	91.9	6.4	6.4	6.4	2.0 2	2.0		2.4 3.0	2.9	1
						23.7 23.9		8.2 8.2		33.1		91.9 92.8		6.4 6.5		-	2.0			2.8 1.6		<u> </u>
				Surface	1.1 -	23.9	23.9	8.2	8.2	33.0 33.0	33.0	92.8 92.7	92.8	6.5	6.5	6.5	2.2	2.2		1.9	1.8	
G4	Sunny	Calm	14:29	Middle	4.0	23.9 23.9	23.9	8.2 8.2	8.2	33.0 33.0	33.0	92.5 92.6	92.6	6.5 6.5	6.5	0.5	1.8 1.9	.8	1.9	1.4	1.6	1.6
				Dettern	74	23.9	22.0	8.2	8.2	33.0	22.0	92.0	02.0	6.5	0.5	0.5	4.7	7		1.7	4.4	1
				Bottom	7.1	23.7	23.8	8.2	8.2	33.1	33.0	92.2	92.2	6.5	6.5	6.5	1.7	.7		1.5	1.4	
				Surface	1.1	24.0 24.0	24.0	<u>8.2</u> 8.2	8.2	33.0 33.0	33.0	92.1 91.9	92.0	6.4 6.4	6.4		1.5 1 1.5 1	.5		3.2	3.1	
M1	Sunny	Calm	14:15	Middle	3.1	23.9	23.9	8.2	8.2	33.0	33.0	91.4	91.5	6.4	6.4	6.4	4.5	.5	1.6	2.2	2.3	2.4
IVII	Gunny	Call	14.15	WILCOLO	5.1	24.0	20.0	8.2	0.2	33.0	55.0	91.5	31.5	6.4	0.4		1.6	.0	1.0	2.4	2.5	2.7
				Bottom	5.1 -	23.7 23.7	23.7	<u>8.2</u> 8.2	8.2	33.0 33.0	33.0	91.1 91.1	91.1	6.4 6.4	6.4	6.4	<u>1.7</u> 1 1.7 1	.7		<u>1.8</u> 1.6	1.7	
				Surface	1.1	23.9	23.8	8.2	8.2	33.0	33.0	94.2	94.1	6.6	6.6		1.9 1	.9		2.2	2.4	
	_					23.8 23.6		8.2 8.2		33.0 33.1		94.0 92.8		6.6 6.5		6.5	1.9			2.6 1.5		-
M2	Sunny	Calm	14:07	Middle	5.0	23.7	23.6	8.2	8.2	33.1	33.1	93.0	92.9	6.5	6.5		2.3 2	2.3	3.1	1.3	1.4	1.3
				Bottom 1	11.1	23.5	23.5	8.3	8.3	33.2	33.2	92.7 92.7	92.7	6.5	6.5	6.5	5.1 5	5.1		<0.1	<0.1	
				Surfage	1 1	23.5 24.2	24.1	8.3 8.2	8.2	33.2 33.0	33.0	92.7	92.7	6.5 6.5	6.4		5.1 1.9 1	.9		<0.1 1.5	1.5	<u> </u>
				Surface	1.1	24.1	24.1	8.2	8.2	33.0 33.0	33.0	92.8 92.5	92.7	6.4	0.4	6.4	1.9	.9		1.4	1.5	_
M3	Sunny	Calm	14:25	Middle	3.9	23.8 23.9	23.8	8.2 8.2	8.2	33.0 33.0	33.0	91.8 91.9	91.9	6.4 6.4	6.4		2.0 2.0 2	2.0	2.1	1.8	1.8	1.7
				Bottom	7.1	23.7	23.7	8.2	8.2	33.1	33.1	91.9	92.0	6.4	6.4	6.4	2.5 2	2.5		2.0	1.9	1
						23.7 24.0		8.2 8.2		33.1		92.1 94.3		6.4 6.6		0.4	2.5			1.7 1.4		
				Surface	1.1 -	23.9	24.0	8.2	8.2	33.0 33.1	33.1	94.3	94.3	6.6	6.6	6.6	1.9 1.9	.9		1.4	1.3	
M4	Sunny	Calm	14:04	Middle	5.2	23.6	23.6	8.2	8.2	33.2	33.2	93.5	93.5	6.6	6.6	0.0	2.3 2	2.3	2.7	1.6	1.5	1.6
			-			23.6 23.5		8.2 8.3		33.2 33.2		93.5 93.3		6.6 6.6			2.3			1.4		-
				Bottom	9.0	23.5	23.5	8.3	8.3	33.2	33.2	93.0	93.2	6.5	6.5	6.5	3.8	3.8		1.9	1.9	
				Surface	1.1	23.8	23.8	8.2	8.2	33.0	33.0	93.6	93.4	6.6	6.5		1.7 1	.7		1.3	1.3	
M5	Sunny	Calm	14:36	Middle	6.1	23.7 23.6	23.6	<u>8.2</u> 8.3	8.2	33.0 33.2	33.2	93.1 92.4	92.3	6.5 6.5	6.5	6.5	1.8 3.7 3	3.7	3.5	1.3 1.6	1.5	1.5
IVIJ	Sunny	Callin	14.50	MILLUIC	0.1	23.6	20.0	8.2		33.2	JJ.Z	92.2	32.3	6.5	0.5		3.7		5.5	1.4	1.5	1.5
				Bottom 1	11.1	23.5 23.5	23.5	8.3 8.3	8.3	33.3 33.3	33.3	93.2 93.3	93.3	6.5 6.6	6.5	6.5	<u>4.9</u> 4.9	1.9		1.8 1.7	1.8	1
				Surface	-	-	-	-	-	-	-	-	-	-	-		_	-		-	-	1
						- 24.0		-		-		- 02.0		-		6.5	-			-		4
M6	Sunny	Calm	14:31	Middle	2.0	24.0	24.0	8.2 8.2	8.2	33.0 33.0	33.0	93.0 92.8	92.9	6.5 6.5	6.5		1.8 1	.8	1.8	1.2 1.3	1.3	1.3
				Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	1
Remarks:	*DA: Depth-Ave					-		-	L	-		-		-			-				1	L

*DA: Depth-Averaged **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Action and Limit Levels for Marine Water Quality on 28 November 2022 (Mid-Ebb Tide)

Parameter							
<u>(unit)</u>	<u>Depth</u>	Action Level	Limit Level				
	Stations G1-G4, M1-M5	•	•				
	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>				
DO in mg/L (See Note 1 and 4)	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>				
	<u>Station M6</u>						
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>				
	Stations G1-G4, M1-M5						
		<u>19.3 NTU</u>	<u>22.2 NTU</u>				
Turbidity in NTU (See Note 2 and 4)	Bottom	or 120% of upstream control station's Turbidity at the same tide of the same day	or 130% of upstream control station's Turbidity at the same tide of the same day				
		<u>C2: 4.0 NTU</u>	<u>C2: 4.3 NTU</u>				
	<u>Station M6</u>						
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>				
	Stations G1-G4	•	•				
		<u>6.0 mg/L</u>	<u>6.9 mg/L</u>				
		or 120% of upstream control	or 130% of upstream control				
	Surface	station's SS at the same tide of	station's SS at the same tide of				
		the same day	the same day				
		<u>C2: 2.0 mg/L</u>	<u>C2: 2.2 mg/L</u>				
	Stations M1-M5						
		<u>6.2 mg/L</u>	<u>7.4 mg/L</u>				
		or 120% of upstream control	or 130% of upstream control				
	Surface	station's SS at the same tide of	station's SS at the same tide of				
SS in mg/L		the same day	the same day				
(See Note 2 and 4)		<u>C2: 2.0 mg/L</u>	<u>C2: 2.2 mg/L</u>				
	Stations G1-G4, M1-M5						
		<u>6.9 mg/L</u>	<u>7.9 mg/L</u>				
		or 120% of upstream control	or 130% of upstream control				
	Bottom	station's SS at the same tide of	station's SS at the same tide of				
		the same day	the same day				
		<u>C2: 4.1 mg/L</u>	<u>C2: 4.5 mg/L</u>				
	Station M6	ł					
	Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>				

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction Water Quality Monitoring Results on 28 November 2022

(Mid-Flood Tide)

Location	Weather	Sea	Sampling	Depth	(m)	Temperat	ture (°C)	-	н		ty ppt	DO Satur	ation (%)	Dissolved				rbidity(NTU		-	ded Solids	,
Location	Condition	Condition**	Time	Deptil	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Average		Average		Average		Average		Average	DA*	Value	Average	DA*	Value	Average	DA*
				Surface	1.1	24.5 24.4	24.4	8.2 8.2	8.2	33.0 33.0	33.0	94.8 94.7	94.8	6.6 6.6	6.6		1.5 1.5	1.5		<0.1 <0.1	<0.1	1
C1	Sunny	Calm	10:49	Middle	9.0	23.6	23.6	8.3	8.3	33.2	33.2	94.7	93.7	6.6	6.6	6.6	2.5	2.6	3.1	1.5	1.7	1.3
C1	Sunny	Califi	10.49	windule		23.6	23.0	8.3	0.3	33.2	33.Z	93.5	93.7	6.6	0.0		2.6	2.0	3.1	1.8	1.7	1.5
				Bottom	17.0	23.5 23.5	23.5	8.3 8.3	8.3	33.3 33.3	33.3	93.9 93.9	93.9	6.6 6.6	6.6	6.6	5.2 5.3	5.3		2.2	2.2	
				Surface	1.1	23.7	23.7	8.2	8.2	33.0	33.0	92.7	92.7	6.5	6.5		1.6	1.6		<0.1	<0.1	
	-					23.7		8.2		33.0 33.1		92.6 92.1		6.5 6.5		6.5	1.6 1.7			<0.1 1.5		1
C2	Sunny	Calm	10:09	Middle	16.0	23.7 23.7	23.7	8.2 8.2	8.2	<u>33.1</u> 33.1	33.1	92.1	92.1	6.5	6.5		1.8	1.7	2.1	1.3	1.4	1.0
				Bottom	31.1	23.6 23.6	23.6	8.2 8.2	8.2	33.2 33.2	33.2	92.5 92.5	92.5	6.5 6.5	6.5	6.5	2.9 3.0	3.0		1.6 1.8	1.7	
				Surface	1.0	24.0	23.9	8.2	8.2	33.0	33.0	93.3	93.1	6.5	6.5		2.0	2.0		<0.1	<0.1	
				Ounace		23.9		8.2		33.0		92.9		6.5		6.5	2.1			<0.1	<0.1	
G1	Sunny	Calm	10:27	Middle	4.1	23.7 23.7	23.7	8.2 8.2	8.2	33.0 33.0	33.0	91.5 91.5	91.5	6.4 6.4	6.4		1.6 1.7	1.7	2.0	1.2 1.4	1.3	1.0
				Bottom	7.2	23.6	23.6	8.2	8.2	33.2	33.2	91.9	92.1	6.4	6.5	6.5	2.3	2.4		1.8	1.7	
						23.6 23.7		8.2 8.2		33.2 33.0		92.2 92.6		6.5 6.5			2.5 1.7			1.5 1.5		
				Surface	1.0	23.7	23.7	8.2	8.2	33.0	33.0	92.5	92.6	6.5	6.5	6.5	1.7	1.7		1.3	1.4]
G2	Sunny	Calm	10:20	Middle	5.2	23.6 23.6	23.6	8.2 8.2	8.2	33.1 33.0	33.1	92.1 92.1	92.1	6.5 6.5	6.5	0.0	1.8	1.7	1.9	1.8 1.6	1.7	1.8
				Bottom	9.0	23.6	23.6	8.2	8.2	33.0	33.1	92.1	91.8	6.4	6.4	6.4	2.3	2.3		2.4	2.3	1
				DOLLOIN	9.0	23.6	23.0	8.2	0.2	33.1	33.1	91.7	91.0	6.4	0.4	0.4	2.4	2.3		2.2	2.3	<u> </u>
				Surface	1.1	24.0 24.0	24.0	8.2 8.2	8.2	33.0 33.0	33.0	92.9 92.7	92.8	6.5 6.5	6.5	~ .	1.8 1.8	1.8		1.5 1.8	1.7	
G3	Sunny	Calm	10:31	Middle	4.0	23.7	23.8	8.2	8.2	33.0	33.0	91.6	91.7	6.4	6.4	6.4	1.8	1.8	1.9	2.3	2.3	2.2
00	Cunny	Califi	10.01			23.8 23.7		8.2 8.2		33.0 33.1		91.7 91.9		6.4 6.4	-		1.8 2.2		1.0	2.2 2.7		
				Bottom	7.1	23.7	23.7	8.2	8.2	33.1	33.1	92.0	92.0	6.4	6.4	6.4	2.4	2.3		2.7	2.7	
				Surface	1.0	24.0	24.0	8.2	8.2	33.0	33.0	93.8	93.7	6.5	6.5		1.8	1.8		2.5	2.4	
G4	0	Quiter	40.07	M. J. H.	4.0	24.0 23.9	23.9	8.2 8.2	8.2	33.0 33.0	00.0	93.6 92.6	92.6	6.5 6.5	6.5	6.5	1.8 1.8	4.0		2.3 1.9	1.9	10
G4	Sunny	Calm	10:37	Middle	4.0	23.9	23.9	8.2	8.2	33.0	33.0	92.6	92.6	6.5	0.0		1.8	1.8	1.8	1.8	1.9	1.9
				Bottom	7.1	23.8 23.8	23.8	8.2 8.2	8.2	33.0 33.0	33.0	92.3 92.2	92.3	6.5 6.5	6.5	6.5	1.7 1.7	1.7		1.6 1.5	1.6	
				Surface	1.1	24.0	23.9	8.2	8.2	33.0	33.0	93.9	93.0	6.6	6.5		1.8	1.8		1.7	1.8	
						23.9 23.9		8.2 8.2		33.0		92.1 93.0		6.4 6.5		6.5	1.7 1.8			1.9 1.7		4
M1	Sunny	Calm	10:23	Middle	3.0	23.9	23.9	8.2	8.2	33.0 33.0	33.0	92.0	92.5	6.4	6.5		1.8	1.8	1.8	1.6	1.7	1.6
				Bottom	5.2	23.8	23.8	8.2	8.2	33.0	33.0	92.1	91.8	6.4	6.4	6.4	1.7	1.7		1.4	1.4	
					10	23.8 23.8	23.8	8.2 8.2	8.2	33.0 33.0	22.0	91.5 93.1	02.0	6.4 6.5	0.5		1.7 2.1	2.1		1.4 2.7	2.0	
				Surface	1.2	23.7	23.8	8.2	8.2	33.0	33.0	92.9	93.0	6.5	6.5	6.5	2.1	2.1		3.0	2.9	
M2	Sunny	Calm	10:17	Middle	6.0	23.6 23.6	23.6	8.2 8.2	8.2	33.1 33.1	33.1	92.4 92.4	92.4	6.5 6.5	6.5		3.0 2.8	2.9	3.0	2.3 2.5	2.4	2.3
				Bottom	11.1	23.6	23.5	8.2	8.2	33.2	33.2	92.5	92.5	6.5	6.5	6.5	4.0	4.1		1.9	1.8	
						23.5 24.0		8.2 8.2		33.2 33.0		92.5 92.9		6.5 6.5		0.0	4.3 2.0			1.6 1.9		<u> </u>
				Surface	1.1	23.9	23.9	8.2	8.2	33.0	33.0	92.8	92.9	6.5	6.5	6.5	2.0	2.0		1.7	1.8]
M3	Sunny	Calm	10:33	Middle	4.0	23.8 23.8	23.8	8.2 8.2	8.2	33.0 33.0	33.0	92.1 92.3	92.2	6.4 6.5	6.4	0.5	2.0 2.0	2.0	2.1	2.4	2.3	2.3
	-			Dettern	7.0	23.8	22.7	8.2	0.0	33.0	22.4	92.3	02.2	6.5	0.5	0.5	2.0	2.2		2.1	0.7	1
				Bottom	7.0	23.7	23.7	8.2	8.2	33.1	33.1	92.2	92.2	6.5	6.5	6.5	2.2	2.2		2.8	2.7	L
				Surface	1.1	24.0 23.9	24.0	8.2 8.2	8.2	33.0 33.1	33.1	94.3 94.2	94.3	6.6 6.6	6.6		1.9 1.9	1.9		1.7 1.9	1.8	
M4	Sunny	Calm	10:13	Middle	5.2	23.6	23.6	8.2	8.2	33.2	33.2	93.5	93.5	6.6	6.6	6.6	2.3	2.3	2.7	2.2	2.2	2.2
101-7	Cunity	Califi	10.10	Wilddie		23.6		8.2		33.2		93.5		6.6			2.3		2.7	2.1		2.2
				Bottom	9.0	23.5 23.5	23.5	8.3 8.3	8.3	33.2 33.2	33.2	93.3 93.0	93.2	6.6 6.5	6.5	6.5	3.8 3.9	3.9		2.5 3.0	2.8	
				Surface	1.1	23.7	23.7	8.2	8.2	33.1	33.1	93.0	92.9	6.5	6.5		2.5	2.4		2.0	2.2	
	_					23.7 23.5		8.2 8.3		33.1 33.2		92.7 92.4		6.5 6.5		6.5	2.3 4.0			2.3 1.8		1
M5	Sunny	Calm	10:46	Middle	6.0	23.6	23.6	8.2	8.2	33.2	33.2	92.3	92.4	6.5	6.5		3.9	3.9	4.0	1.7	1.8	1.8
				Bottom	11.1	23.5	23.5	8.3	8.3	33.3	33.3	93.4	93.5	6.6	6.6	6.6	5.6	5.6		1.3	1.4	
			1	Surface		23.5	-	8.3		33.3	-	93.5		6.6 -	-		5.6 -	-		1.5	-	<u> </u>
				Suilace	-	-	-	-	-	-	-	-	-	-	-	6.5	-			-	-	1
M6	Sunny	Calm	10:40	Middle	2.3	24.1 24.0	24.1	8.2 8.2	8.2	33.0 33.0	33.0	94.1 93.7	93.9	6.6 6.5	6.5		8.0 8.0	8.0	1.6	2.4 2.3	2.4	2.4
				Bottom	_	-	-	-	-	-	-	-	-	-	-	-	-			-	-	1
				20110111		-		-		-		-		-			-			-		1

Remarks: *DA: Depth-Averaged

**Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Action and Limit Levels for Marine Water Quality on 28 November 2022 (Mid-Flood Tide)

Parameter	Donth	Action Level	Limit Level									
<u>(unit)</u>	<u>Depth</u>	Action Level	Limit Level									
	Stations G1-G4, M1-M5											
DO in mg/L	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>									
(See Note 1 and 4)	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>									
	<u>Station M6</u>	-										
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>									
	Stations G1-G4, M1-M5											
		<u>19.3 NTU</u>	<u>22.2 NTU</u>									
Turbidity in NTU (See Note 2 and 4)	Bottom	or 120% of upstream control station's Turbidity at the same tide of the same day	or 130% of upstream control station's Turbidity at the same tide of the same day									
		<u>C1: 6.3 NTU</u>	<u>C1: 6.8 NTU</u>									
	Station M6											
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>									
	Stations G1-G4											
		<u>6.0 mg/L</u>	<u>6.9 mg/L</u>									
		or 120% of upstream control	or 130% of upstream control									
	Surface	station's SS at the same tide of	station's SS at the same tide of									
		the same day	the same day									
		<u>C1: n.a. mg/L</u>	<u>C1: n.a. mg/L</u>									
	Stations M1-M5	T	[
		<u>6.2 mg/L</u>	<u>7.4 mg/L</u>									
		or 120% of upstream control	or 130% of upstream control									
SS in mal	Surface	station's SS at the same tide of	station's SS at the same tide of									
SS in mg/L (See Note 2 and 4)		the same day	the same day									
		<u>C1: n.a. mg/L</u>	<u>C1: n.a. mg/L</u>									
	Stations G1-G4, M1-M5											
		<u>6.9 mg/L</u>	<u>7.9 mg/L</u>									
		or 120% of upstream control	or 130% of upstream control									
	Bottom	station's SS at the same tide of	station's SS at the same tide of									
		the same day	the same day									
		<u>C1: 2.6 mg/L</u>	<u>C1: 2.8 mg/L</u>									
	Station M6	·	L									
	Intake Level	<u>8.3 mg/L</u>	<u>8.6 mg/L</u>									

Notes:

1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.

Agreement No. CE 59/2015(EP) Environmental Team for Tseung Kwan O - Lam Tin Tunnel Design and Construction Water Quality Monitoring Results on 30 November 2022

(Mid-Flood Tide)

Location	Weather	Sea	Sampling	Depth	(m)	Temperat	ure (°C)		н		ity ppt	DO Satura	ation (%)		d Oxygen		Turbidity(NT	· ·	-	ded Solids	
_ooution	Condition	Condition**	Time	Pehri	····/		Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value Average	DA*	Value	Average	DA*
				Surface	1.0	23.8 23.8	23.8	8.2 8.2	8.2	33.4 33.4	33.4	94.6 94.6	94.6	6.2 6.2	6.2		2.4 2.5		1.5 1.3	1.4	
C1	Sunny	Moderate	16:23	Middle	9.1	23.0	23.7	8.2	8.2	33.5	33.5	94.0	94.0	6.1	6.1	6.2	2.0 2.0	2.4	1.5	1.6	1.6
C1	Sunny	woderate	10.23	wiiddie	9.1	23.7	23.7	8.2	0.2	33.5	33.5	93.9	94.0	6.1	0.1		2.0	2.4	1.7	1.0	1.0
				Bottom	17.0	23.7 23.7	23.7	8.2 8.2	8.2	33.6 33.6	33.6	93.7 93.6	93.7	6.1 6.1	6.1	6.1	2.8 2.8		1.9 1.8	1.9	
				Surface	1.1	23.8	23.8	8.2	8.2	33.4	33.4	94.6	94.8	6.2	6.2		3.1 3.0		1.4	1.4	
	-					23.8 23.7		8.2 8.2		33.4 33.5		94.9 93.7		6.2 6.1		6.2	3.0		1.3 1.6		-
C2	Sunny	Moderate	15:38	Middle	16.0	23.7	23.7	8.2	8.2	33.5	33.5	93.6	93.7	6.1	6.1		4.9 4.9	4.7	1.7	1.7	1.7
				Bottom	31.0	23.7	23.7	8.2	8.2	33.5	33.5	93.3	93.3	6.1	6.1	6.1	6.0 6.1	1	2.1	2.2	1
				Surface	1.0	23.7 23.8	23.8	8.2 8.2	8.2	33.5 33.4	33.4	93.3 95.0	95.4	6.1 6.2	6.2		6.1 2.2 2.2		2.3 1.7	1.7	
				Sunace	1.0	23.9	23.0	8.2	0.2	33.4	33.4	95.7	95.4	6.2	0.2	6.2	2.2		1.6	1.7	
G1	Sunny	Moderate	15:59	Middle	4.0	23.7 23.8	23.8	8.2 8.2	8.2	33.4 33.4	33.4	94.8 95.2	95.0	6.2 6.2	6.2		2.5 2.5 2.5	2.3	2.2	2.3	2.2
				Bottom	7.0	23.7	23.7	8.2	8.2	33.4	33.4	94.3	94.1	6.2	6.2	6.2	2.2 2.1	1	2.6	2.6	1
						23.7 23.9		8.2 8.2		33.4 33.4		93.9 94.9		6.1 6.2		0.2	2.0		2.5 1.8		
				Surface	0.9	23.9	23.9	8.2	8.2	33.4	33.4	94.9	95.2	6.2	6.2	6.2	2.3 2.3		1.0	1.9	
G2	Sunny	Moderate	15:52	Middle	4.9	23.7	23.7	8.2	8.2	33.4	33.4	93.8	94.4	6.1	6.2	0.2	2.5 2.4	2.3	1.5	1.6	1.6
						23.8 23.6		8.2 8.2		33.4 33.4		94.9 92.9		6.2 6.1			2.3	-	1.7 1.5		-
				Bottom	9.0	23.6	23.6	8.2	8.2	33.4	33.4	92.6	92.8	6.1	6.1	6.1	2.2 2.2		1.4	1.5	
				Surface	1.2	23.8 23.8	23.8	8.2 8.2	8.2	33.4 33.4	33.4	95.0 95.1	95.1	6.2 6.2	6.2		<u>1.4</u> 1.3 1.4		1.9 1.7	1.8	
G3	Sunny	Moderate	16:03	Middle	4.0	23.7	23.7	8.2	8.2	33.4	33.4	94.4	94.5	6.2	6.2	6.2	1.7 1.7	1.6	2.4	2.3	2.3
00	Gunny	moderate	10.00			23.7 23.7		8.2 8.2		33.4 33.4		94.5 94.1		6.2 6.2			1./	1.0	2.1 3.1		2.0
				Bottom	6.9	23.7	23.7	8.2	8.2	33.4	33.4	93.9	94.0	6.1	6.1	6.1	1.8 1.8		2.7	2.9	
				Surface	1.1	23.8	23.8	8.2	8.2	33.4	33.4	97.6	97.4	6.4	6.4		2.2 2.2		1.8	1.8	
01	0	Madanata	40.00	Maria I alla	4.0	23.8 23.8	00.0	8.2 8.2	0.0	33.4 33.4	00.4	97.2 95.8	05.0	6.3 6.3	0.0	6.3	2.2 2.2		1.8 2.1	0.0	
G4	Sunny	Moderate	16:09	Middle	4.0	23.8	23.8	8.2	8.2	33.4	33.4	95.8	95.8	6.3	6.3		2.2 2.2	2.2	2.4	2.3	2.2
				Bottom	7.0	23.7 23.7	23.7	8.2 8.2	8.2	33.4 33.4	33.4	94.6 94.0	94.3	6.2 6.1	6.2	6.2	2.3 2.3 2.3		2.6 2.4	2.5	
				Surface	1.1	23.7	23.7	8.2	8.2	33.4	33.4	95.8	95.6	6.3	6.2		1.8 1.0		2.2	2.2	
						23.7 23.7		8.2 8.2		33.4 33.4		95.3 93.9		6.2 6.1		6.2	1.9	-	2.1 1.8		-
M1	Sunny	Moderate	15:55	Middle	3.1	23.7	23.7	8.2	8.2	33.4	33.4	94.6	94.3	6.2	6.2		2.0 2.1	2.1	1.6	1.7	1.7
				Bottom	5.0	23.7 23.7	23.7	8.1 8.1	8.1	33.4 33.4	33.4	92.2 91.9	92.1	6.0 6.0	6.0	6.0	2.4 2.4		1.2 1.4	1.3	
				Surface	1.1	23.9	23.9	8.2	8.2	33.4	33.4	95.1	95.2	6.2	6.2		2.8 2.8		2.8	2.9	
				Sunace		23.9		8.2 8.2		33.4 33.4	33.4	95.2	95.2	6.2 6.2	0.2	6.2	2.8 2.8	-	3.0 2.4	2.9	-
M2	Sunny	Moderate	15:48	Middle	6.0	23.7 23.8	23.8	8.2	8.2	33.4	33.4	94.2 94.7	94.5	6.2	6.2		3.7 3.6	3.4	2.4	2.3	2.3
				Bottom	11.0	23.7	23.7	8.2	8.2	33.4	33.4	93.0	92.9	6.1	6.1	6.1	3.7 3.8	1	1.8	1.7	1
						23.7 23.7		8.2 8.2		33.4 33.4		92.7 93.3		6.1 6.1			4.0		1.6 3.0		
				Surface	1.1	23.8	23.7	8.2	8.2	33.4	33.4	93.6	93.5	6.1	6.1	6.1	1.6		3.3	3.2	
M3	Sunny	Moderate	16:06	Middle	4.0	23.7 23.7	23.7	8.2 8.2	8.2	33.4 33.4	33.4	93.0 93.2	93.1	6.1 6.1	6.1	0.1	1.9 1.9	2.0	2.8 2.5	2.7	2.6
				Bottom	7.1	23.6	23.6	8.2	8.2	33.4	33.4	92.2	92.1	6.0	6.0	6.0	2.3 2.4	1	2.2	2.1	-
						23.6		8.2		33.5 33.4		92.0 93.7		6.0		0.0	2.4		2.0		
				Surface	1.0	23.8 23.8	23.8	8.2 8.2	8.2	33.4	33.4	93.7 94.2	94.0	6.1 6.2	6.1	6.1	2.8 2.6		2.2 2.4	2.3	
M4	Sunny	Moderate	15:43	Middle	5.0	23.7	23.7	8.2	8.2	33.4	33.4	92.8	92.9	6.1	6.1	0.1	4.7 4.8	4.2	1.8	1.7	1.8
						23.7 23.7	aa 7	8.2 8.2		33.4 33.4		93.0 92.4		6.1 6.0			4.8 4.0	-	1.6 1.3		-
				Bottom	9.0	23.7	23.7	8.2	8.2	33.4	33.4	92.3	92.4	6.0	6.0	6.0	5.5 5.3		1.4	1.4	
				Surface	1.0	24.0 24.0	24.0	8.2 8.2	8.2	33.4 33.4	33.4	100.1 99.6	99.9	6.5 6.5	6.5		<u>1.7</u> 1.8 1.7		2.3 2.1	2.2	
M5	Sunny	Moderate	16:16	Middle	5.9	23.7	23.7	8.1	8.1	33.4	33.4	93.9	94.3	6.1	6.2	6.3	2.4 2.5	2.2	1.7	1.8	1.8
INIG	Gunny	Moderate	10.10			23.7 23.7		8.1 8.1		33.4 33.4		94.6 92.8		6.2 6.1			2.5	2.2	1.9 1.3		1.0
				Bottom	10.9	23.7	23.7	8.1	8.1	33.4	33.4	92.8	92.7	6.1	6.1	6.1	2.3 2.3		1.3	1.4	
				Surface	-	-	-	-	-	-		-	-	-	-				-	-	
			10.1-			- 23.8	00 T	- 8.2		- 33.4	07.1	- 96.6	05.7	- 6.3		6.3	- 8.0 0.0		- 1.8		
	Sunny	Moderate	16:12	Middle	2.0		23.8	8.2	8.2	33.4	33.4		96.2		6.3		8.0 8.0	2.4		1.7	1.7
M6	Cunny	modorato				23.8		-		- 33.4		95.8		6.3			6.0		1.6		

Remarks:

*DA: Depth-Averaged **Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher.

Action and Limit Levels for Marine Water Quality on 30 November 2022 (Mid-Flood Tide)

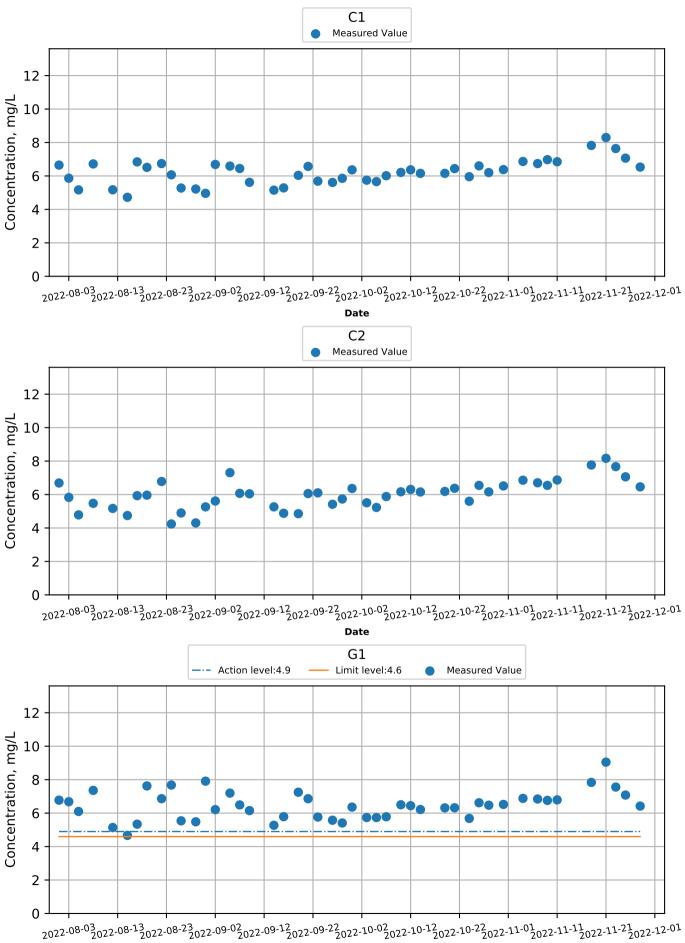
Parameter Parameter	Depth	Action Level	Limit Level									
<u>(unit)</u>												
	Stations G1-G4, M1-M5											
DO in mg/L	Depth Average	<u>4.9 mg/L</u>	<u>4.6 mg/L</u>									
(See Note 1 and 4)	Bottom	<u>4.2 mg/L</u>	<u>3.6 mg/L</u>									
	Station M6	·	-									
	Intake Level	<u>5.0 mg/L</u>	<u>4.7 mg/L</u>									
	Stations G1-G4, M1-M5											
		<u>19.3 NTU</u>	<u>22.2 NTU</u>									
Turbidity in NTU (See Note 2 and 4)	Bottom	or 120% of upstream control station's Turbidity at the same tide of the same day	or 130% of upstream control station's Turbidity at the same tide of the same day									
		<u>C1: 3.4 NTU</u>	<u>C1: 3.7 NTU</u>									
	Station M6											
	Intake Level	<u>19.0 NTU</u>	<u>19.4 NTU</u>									
	Stations G1-G4											
		<u>6.0 mg/L</u>	<u>6.9 mg/L</u>									
		or 120% of upstream control	or 130% of upstream control									
	Surface	station's SS at the same tide of	station's SS at the same tide of									
		the same day	the same day									
		<u>C1: 1.7 mg/L</u>	<u>C1: 1.8 mg/L</u>									
	Stations M1-M5											
		<u>6.2 mg/L</u>	<u>7.4 mg/L</u>									
		or 120% of upstream control	or 130% of upstream control									
SS in mg/L	Surface	station's SS at the same tide of	station's SS at the same tide of									
(See Note 2 and 4)		the same day	the same day									
		<u>C1: 1.7 mg/L</u>	<u>C1: 1.8 mg/L</u>									
	Stations G1-G4, M1-M5											
		<u>6.9 mg/L</u>	<u>7.9 mg/L</u>									
		or 120% of upstream control	or 130% of upstream control									
	Bottom	station's SS at the same tide of	station's SS at the same tide of									
		the same day	the same day									
		<u>C1: 2.2 mg/L</u>	<u>C1: 2.4 mg/L</u>									
	Station M6											
	Intake Level	8.3 mg/L	<u>8.6 mg/L</u>									

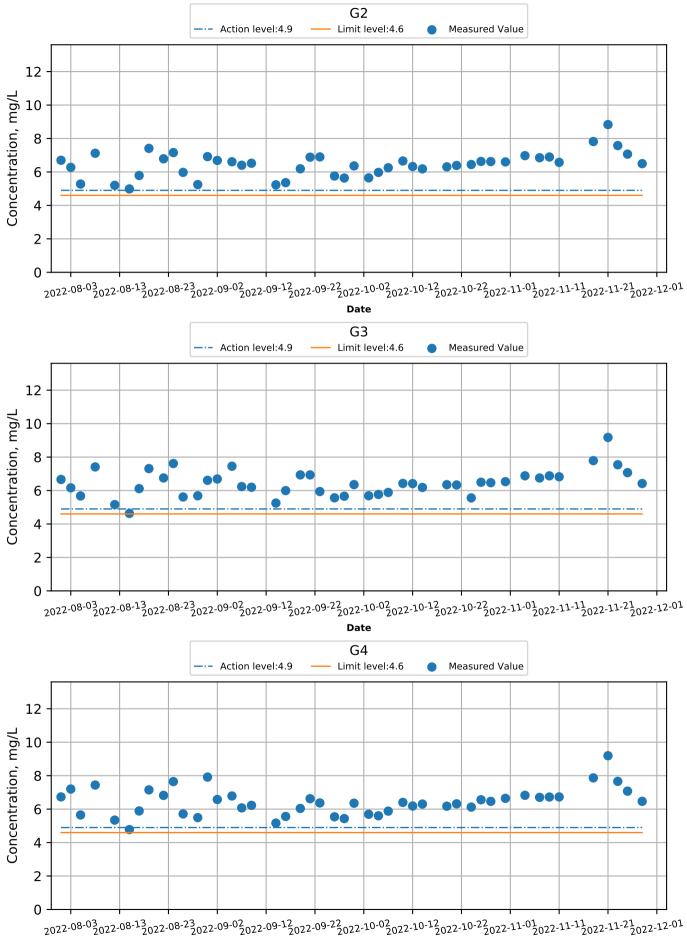
Notes:

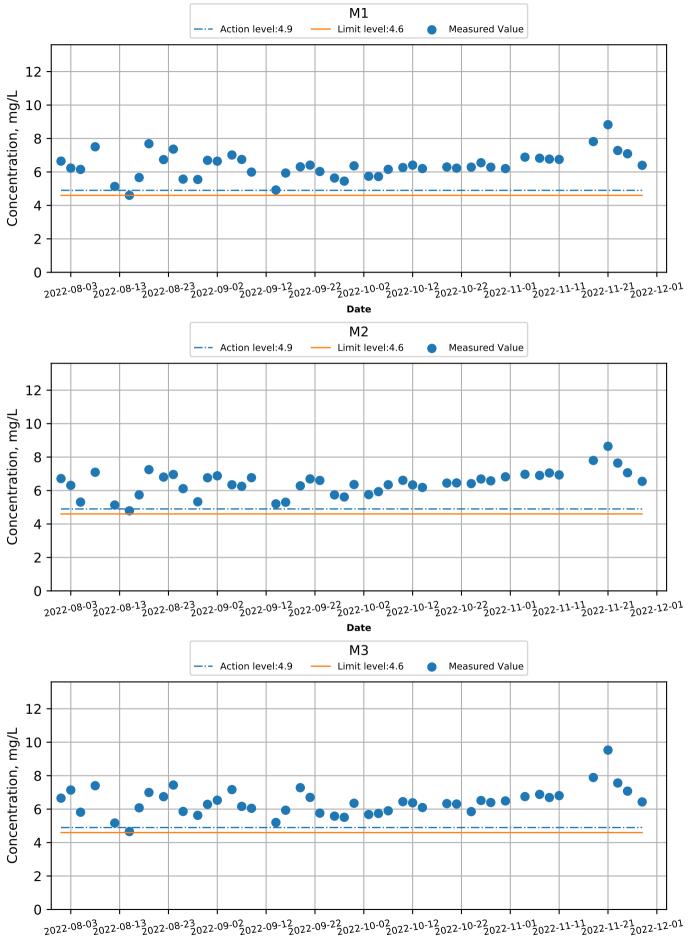
1. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.

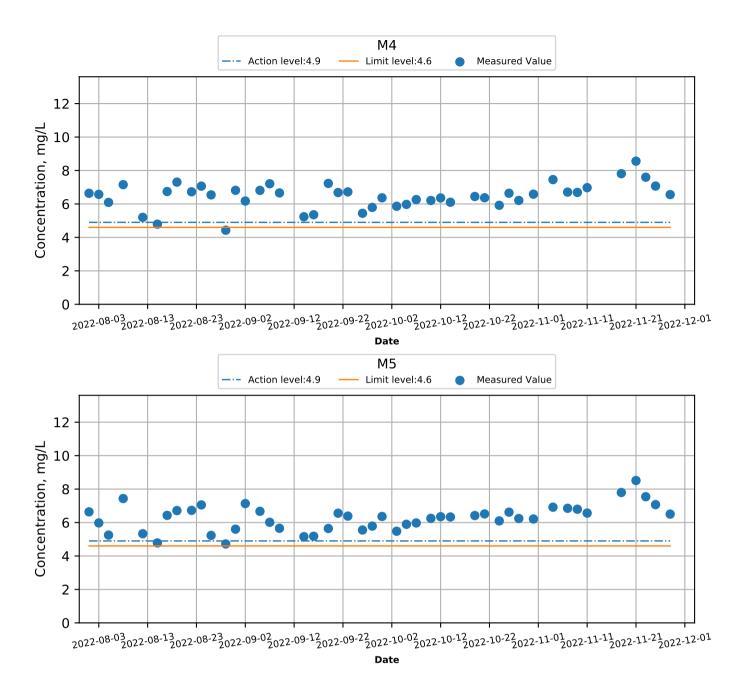
2. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

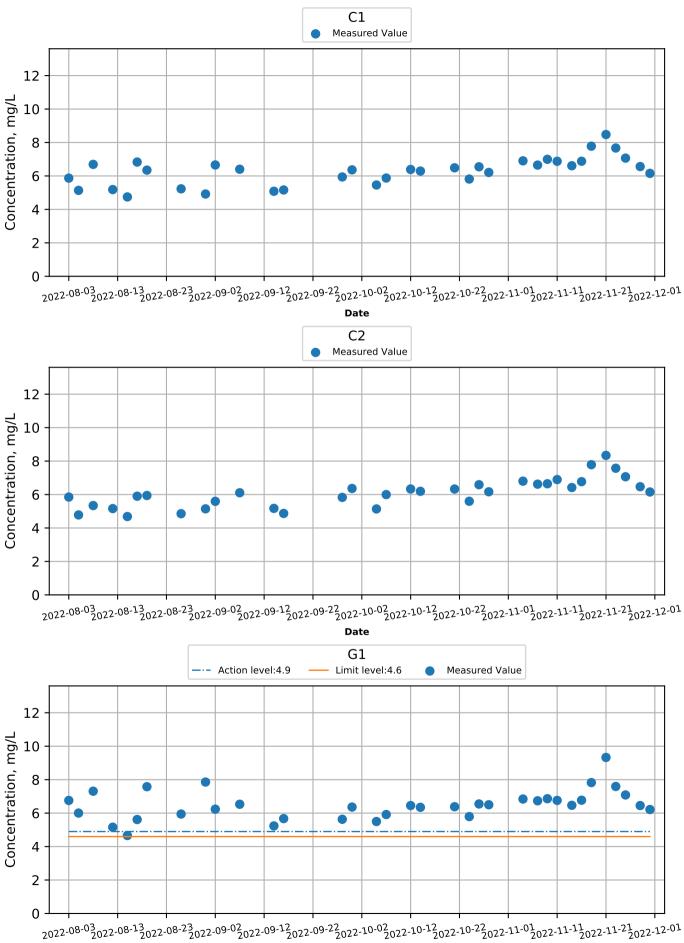
3. All the figures given in the table are used for reference only and EPD may amend the figures whenever it is considered as necessary.

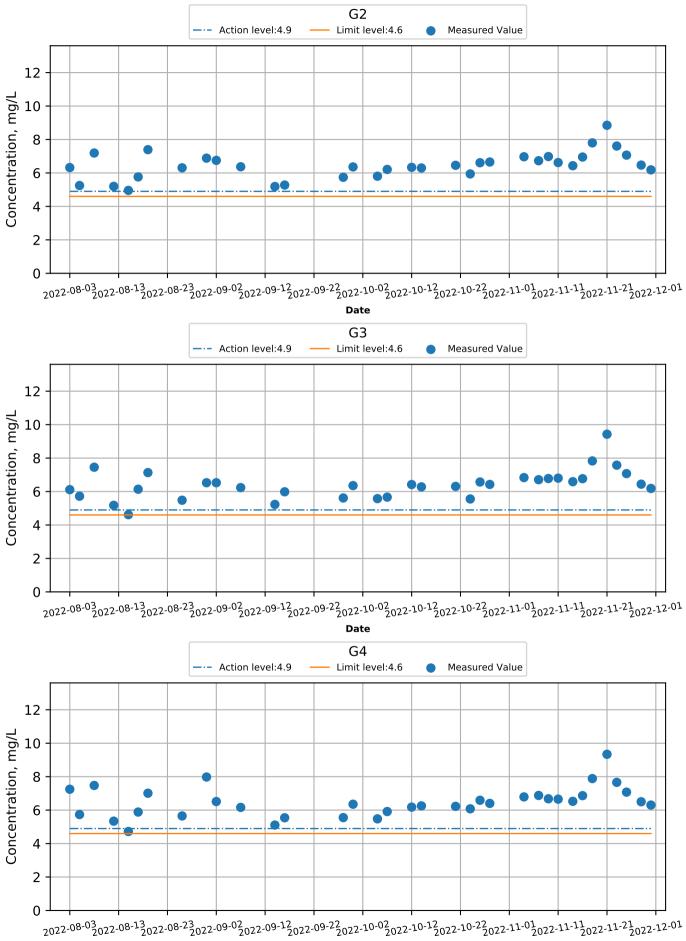


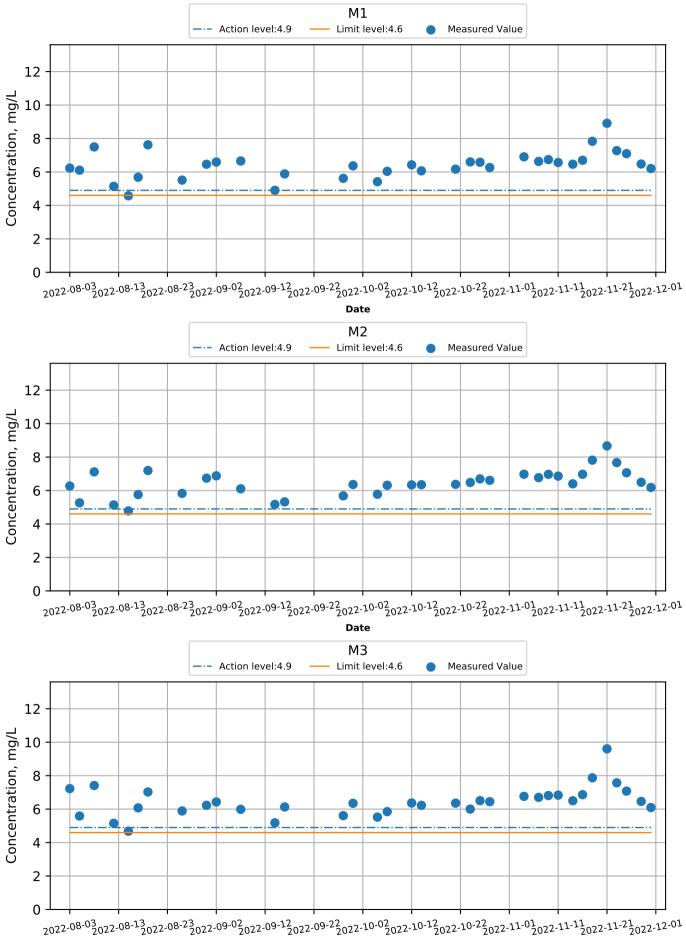


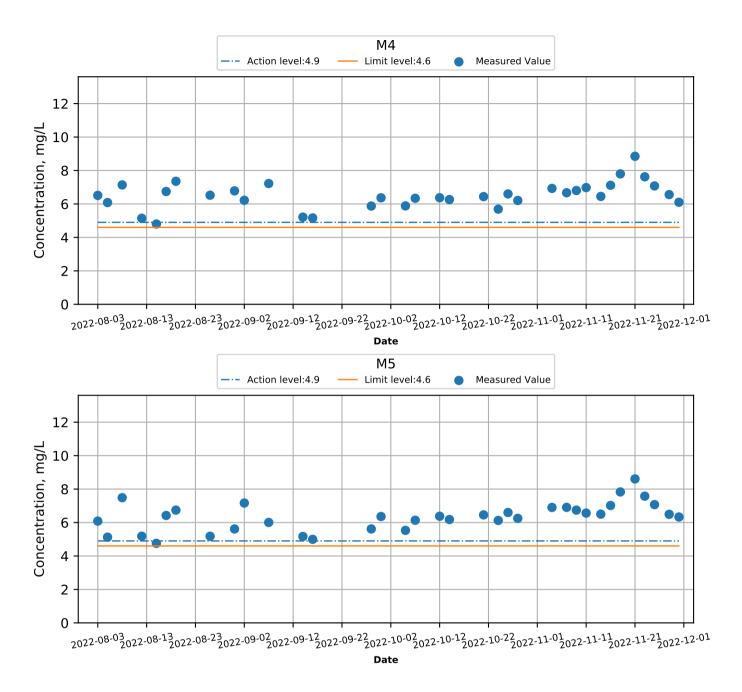




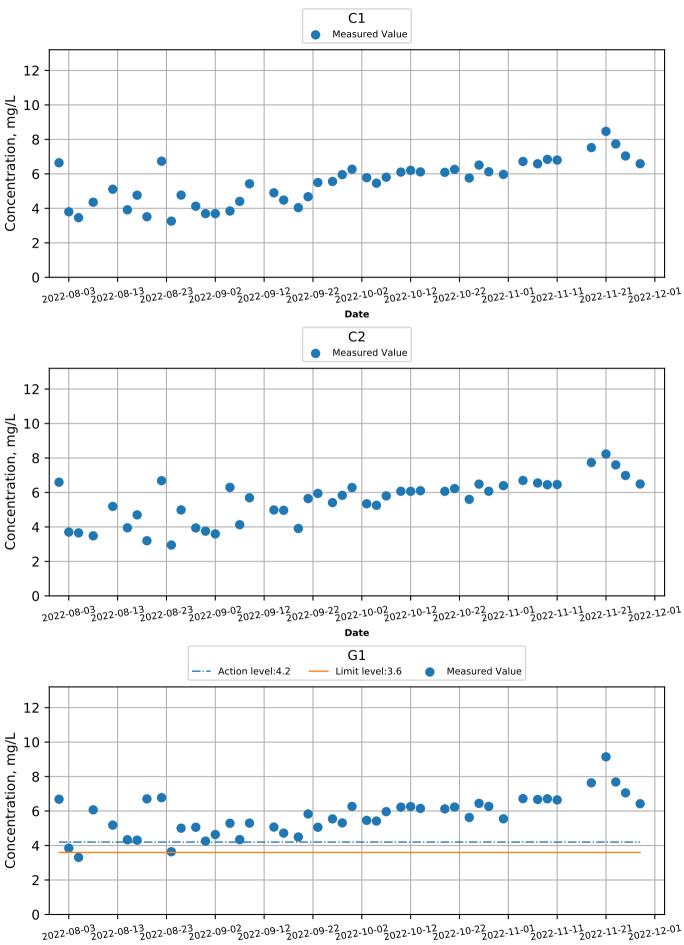


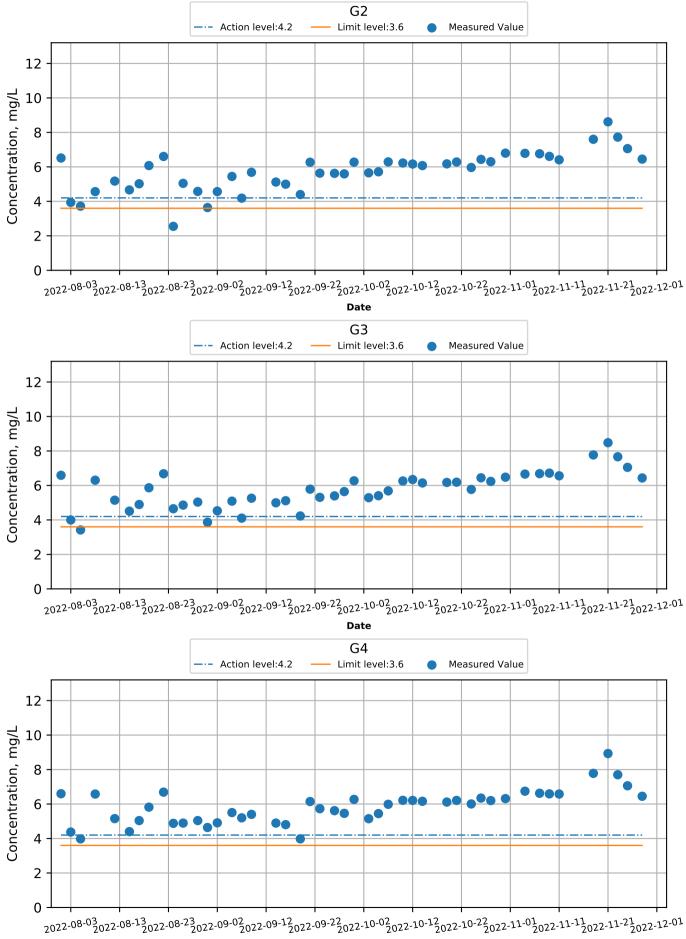


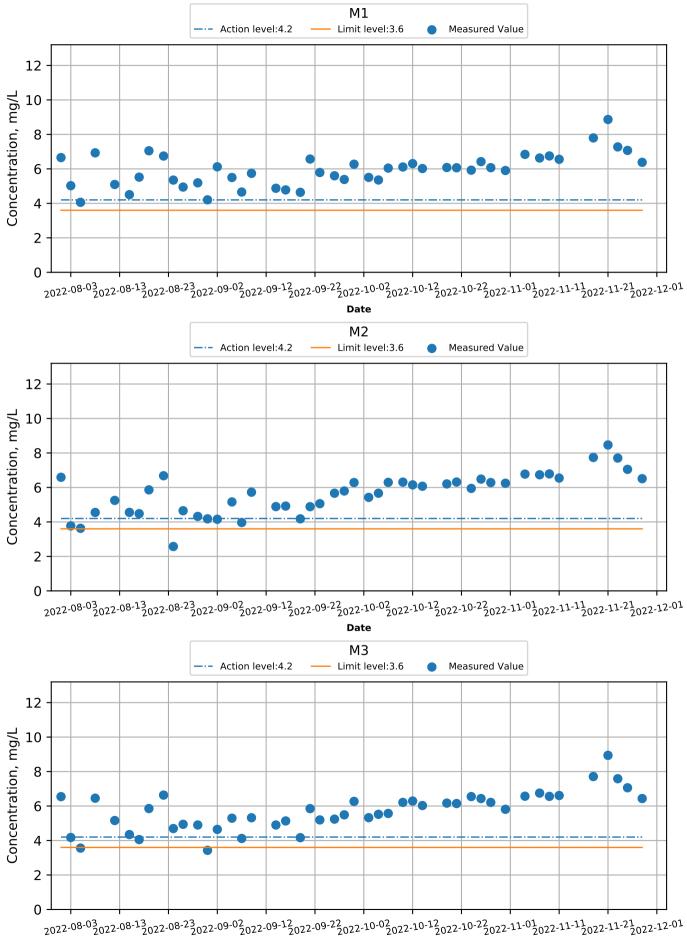


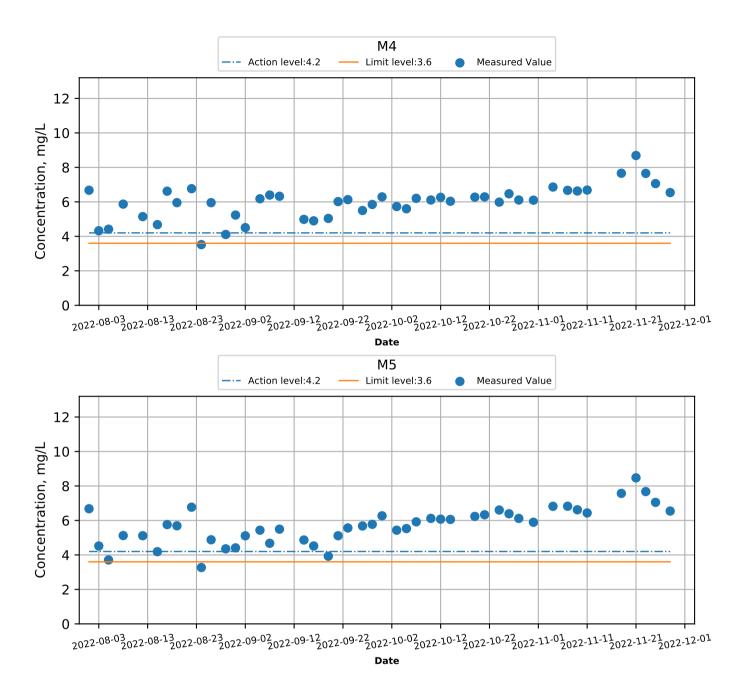


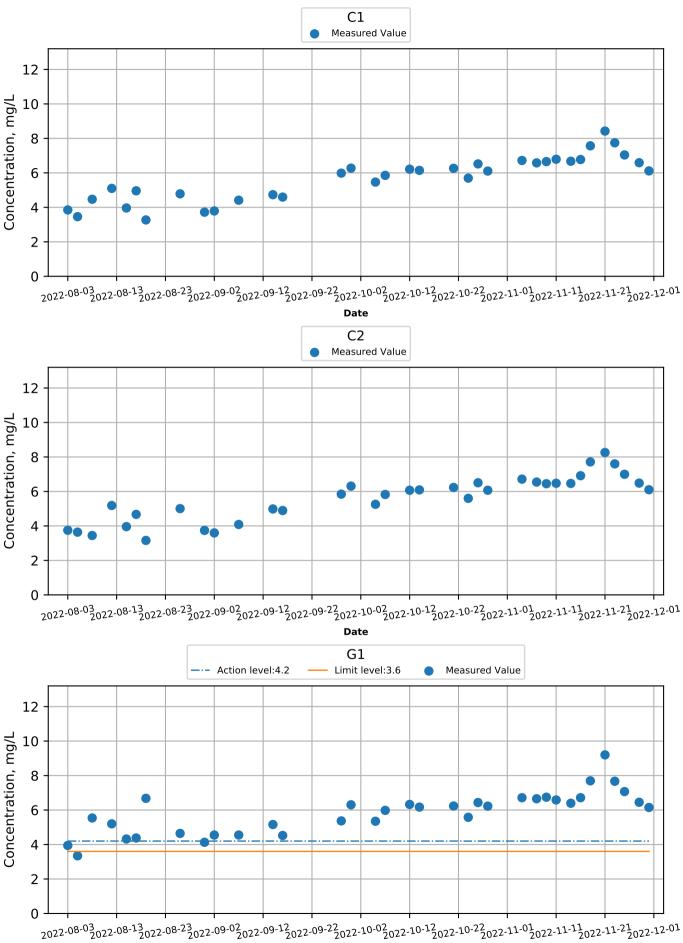
Graphical Presentation of Water Quality Monitoring Results (Aug-2022 to Nov-2022) Dissolved Oxygen (Bottom) at Monitoring Stations during Mid-Ebb

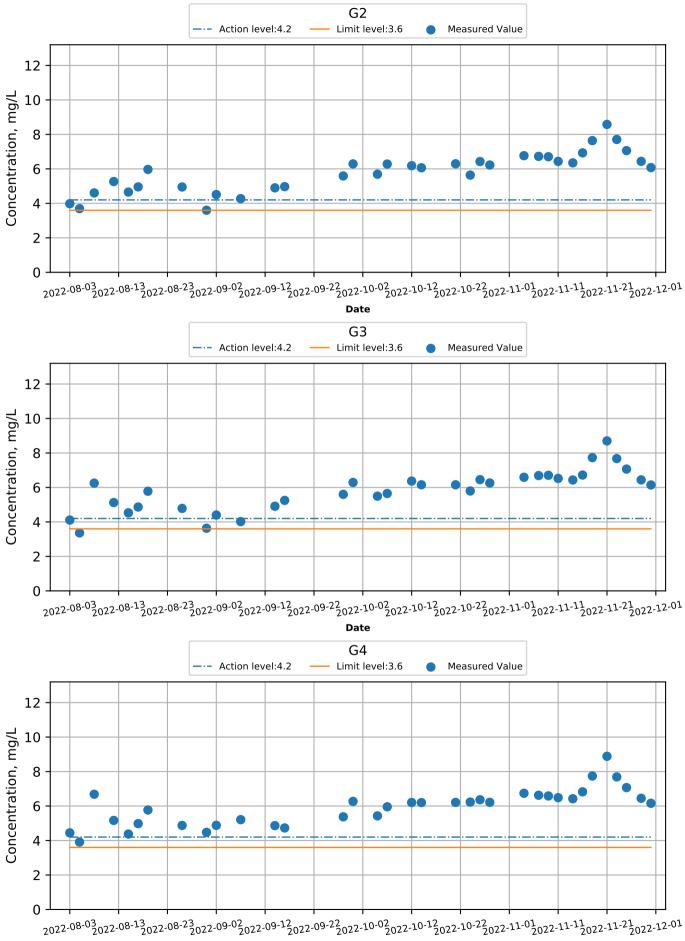


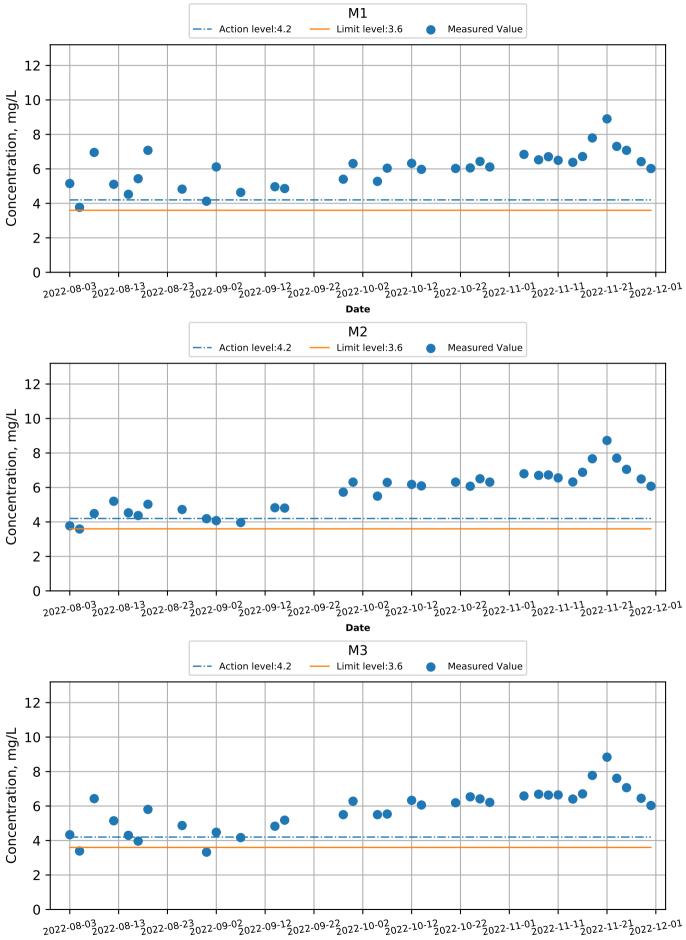


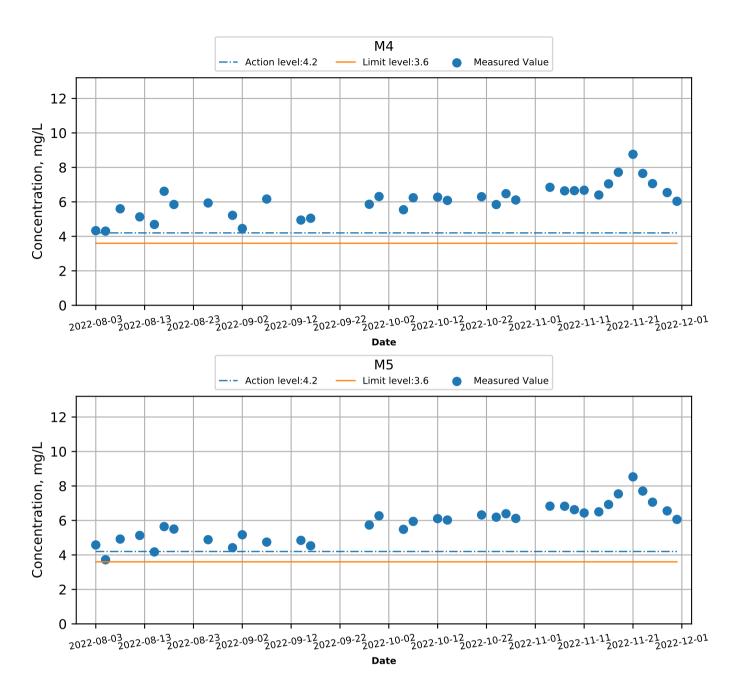




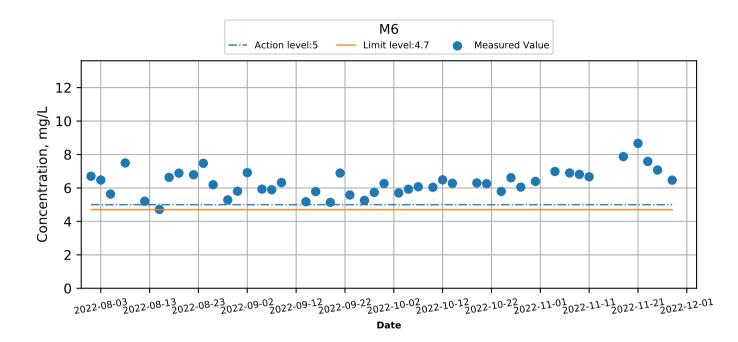




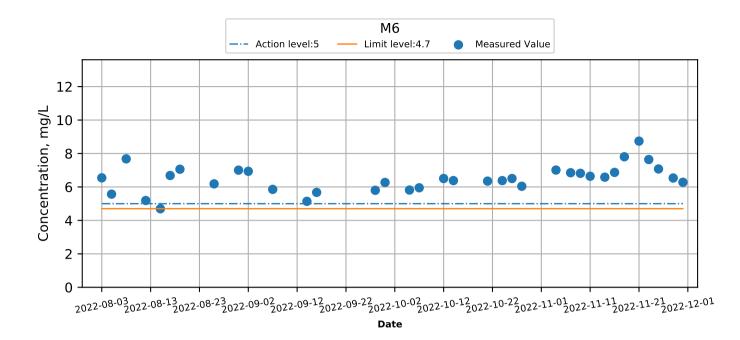


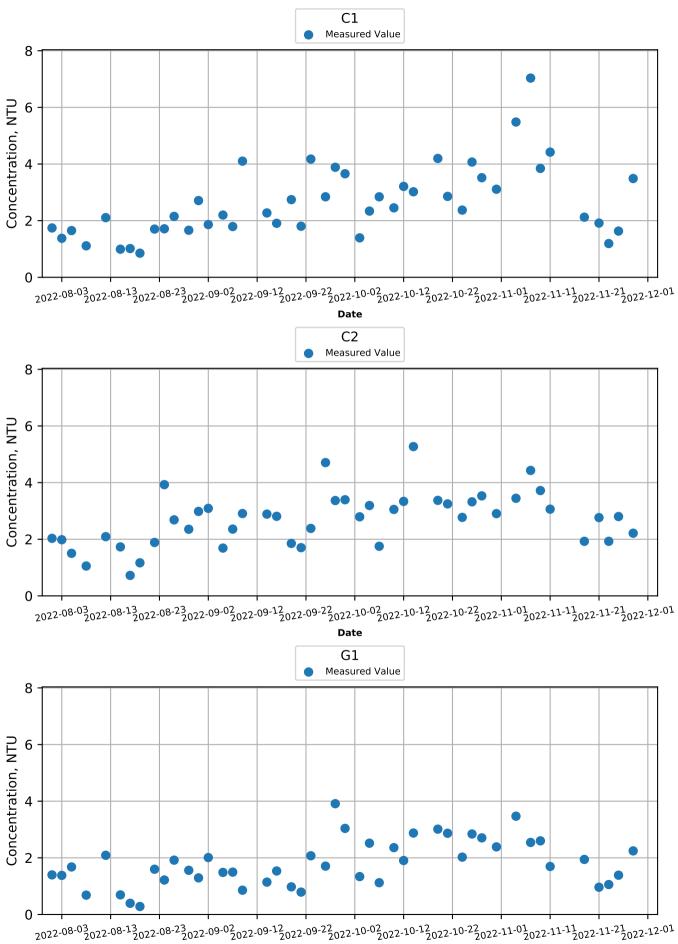


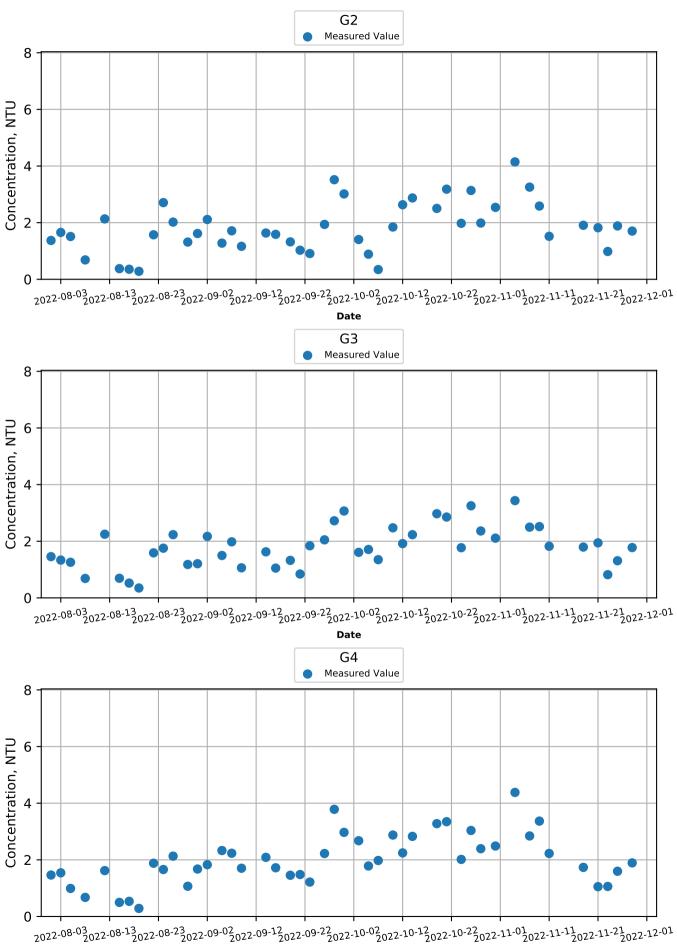
Graphical Presentation of Water Quality Monitoring Results (Aug-2022 to Nov-2022) Dissolved Oxygen (Intake level) at Monitoring Stations during Mid-Ebb

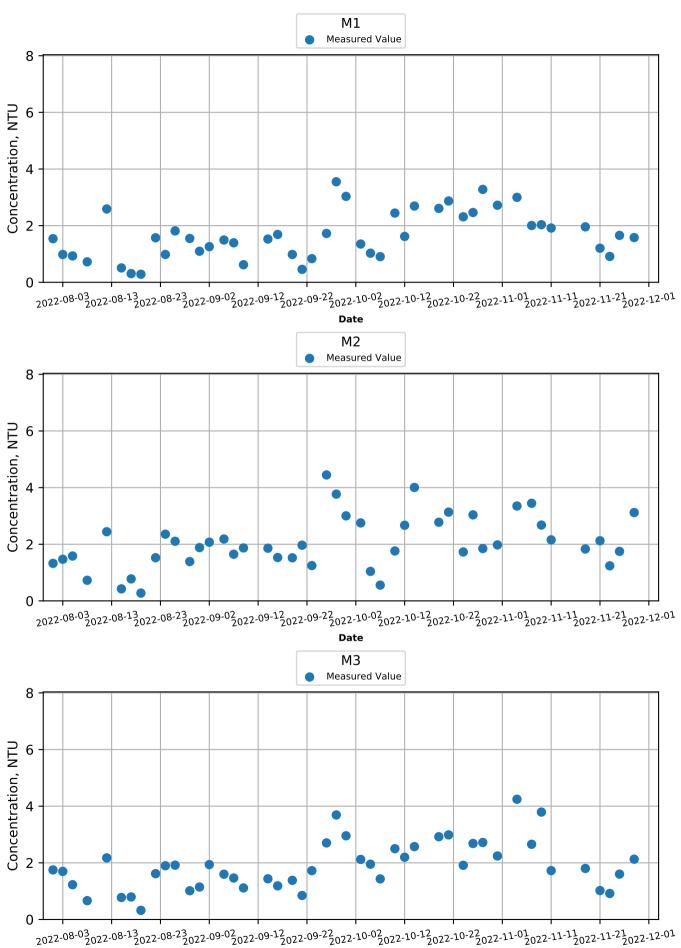


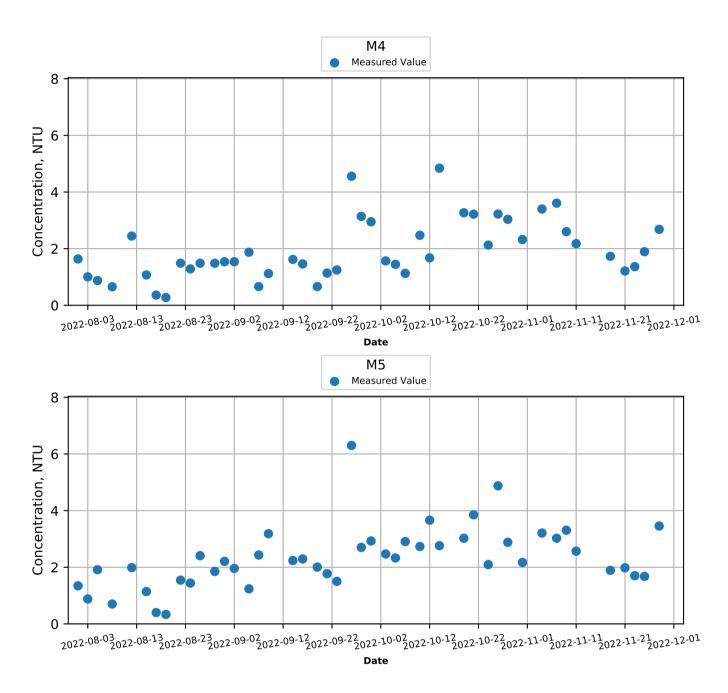
Graphical Presentation of Water Quality Monitoring Results (Aug-2022 to Nov-2022) Dissolved Oxygen (Intake level) at Monitoring Stations during Mid-Flood

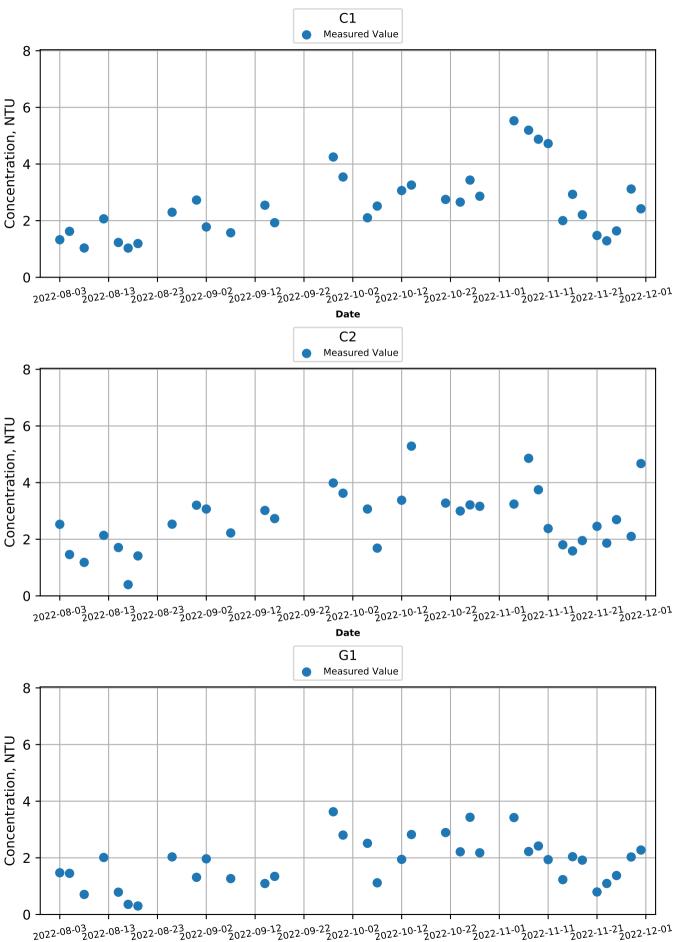


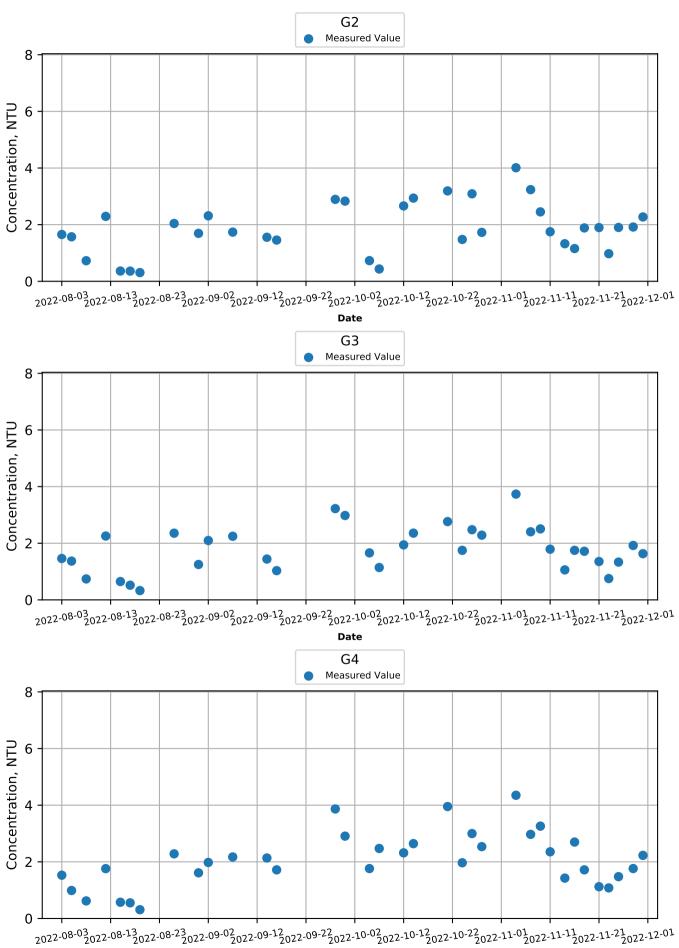


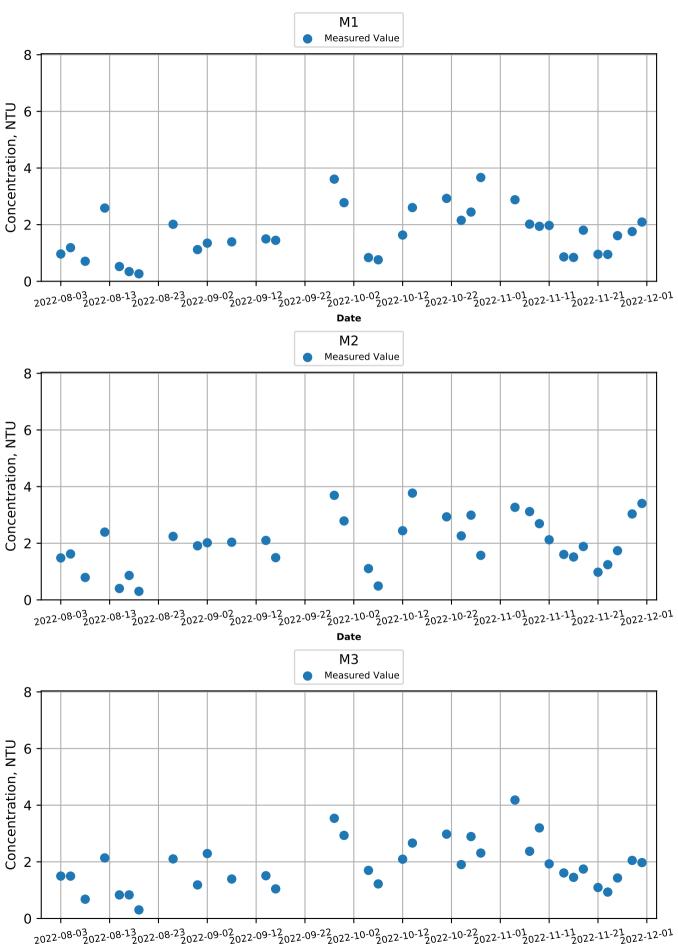


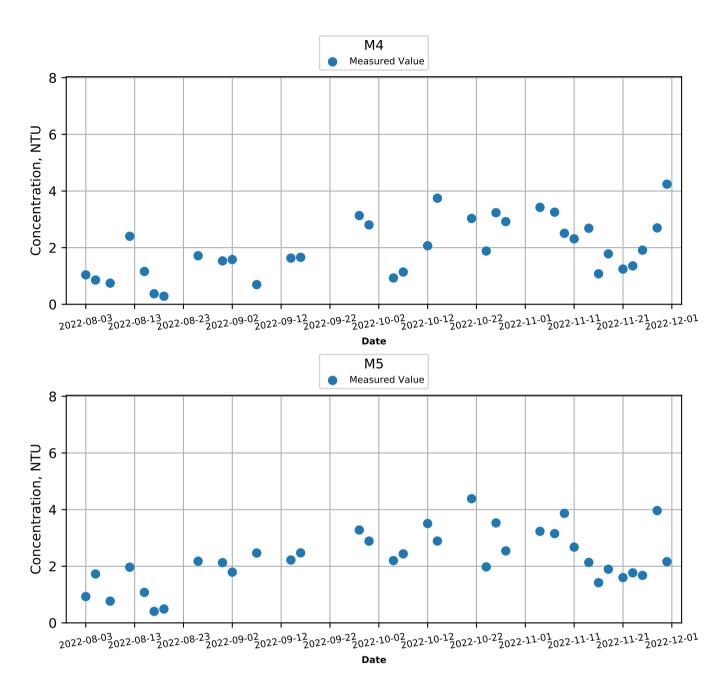




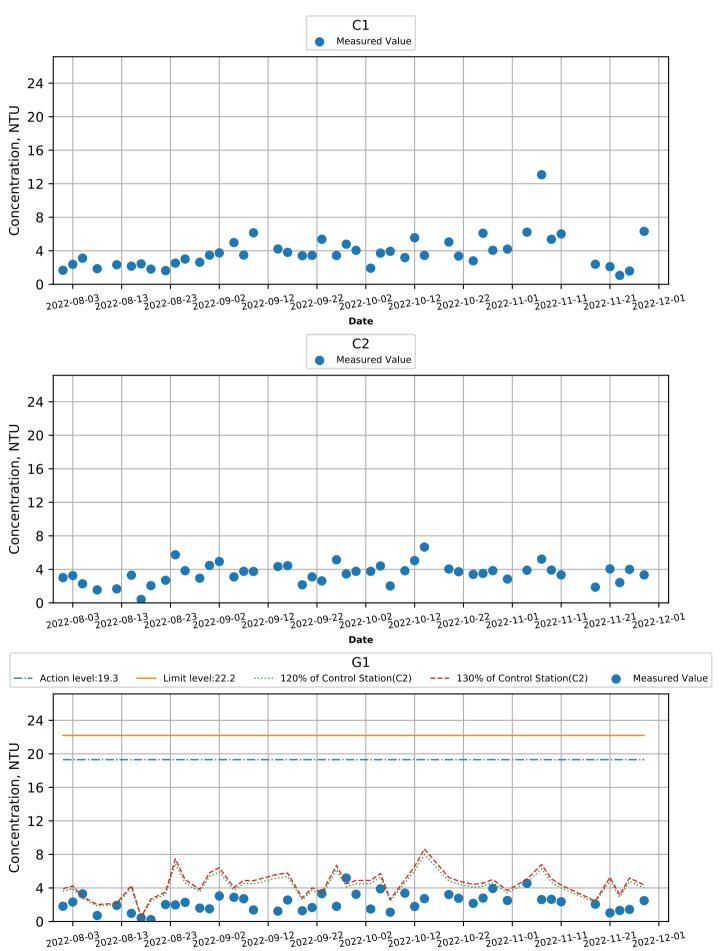




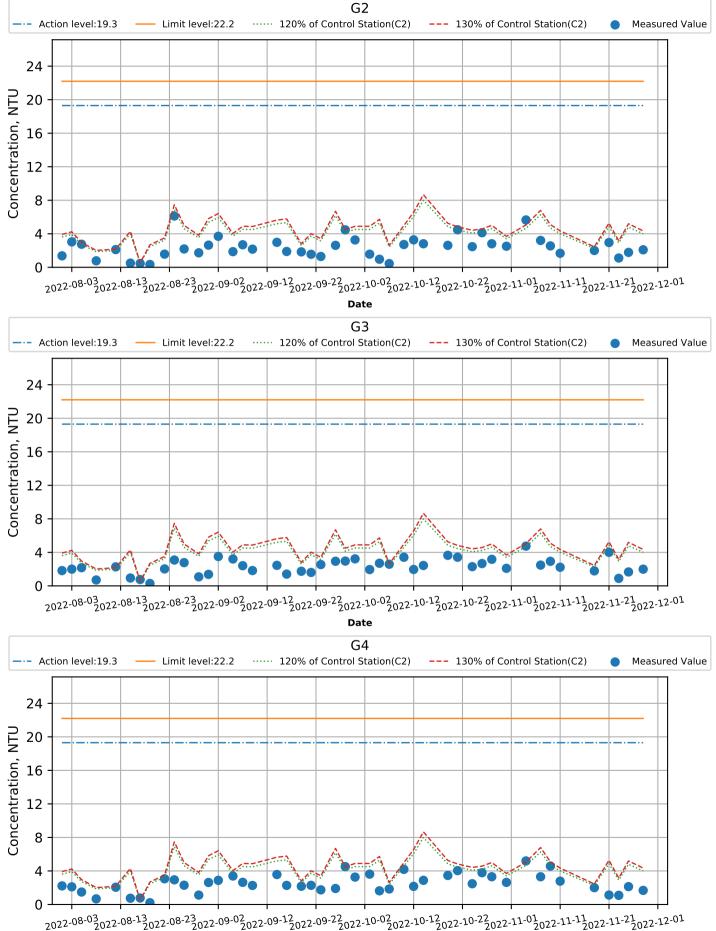




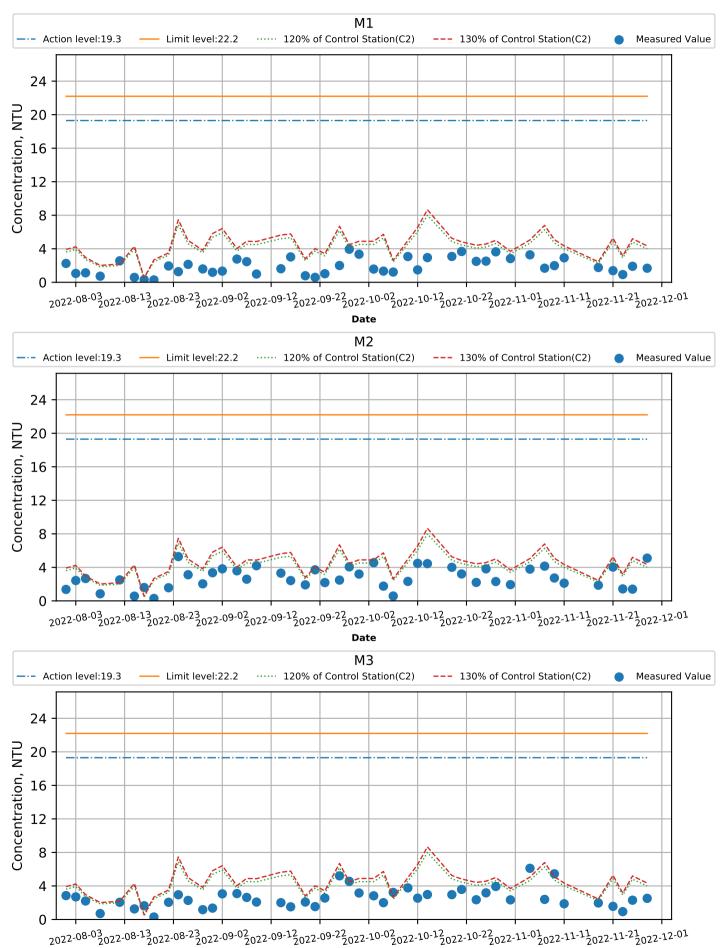
Graphical Presentation of Water Quality Monitoring Results (Aug-2022 to Nov-2022) Turbidity (Bottom) at Monitoring Stations during Mid-Ebb



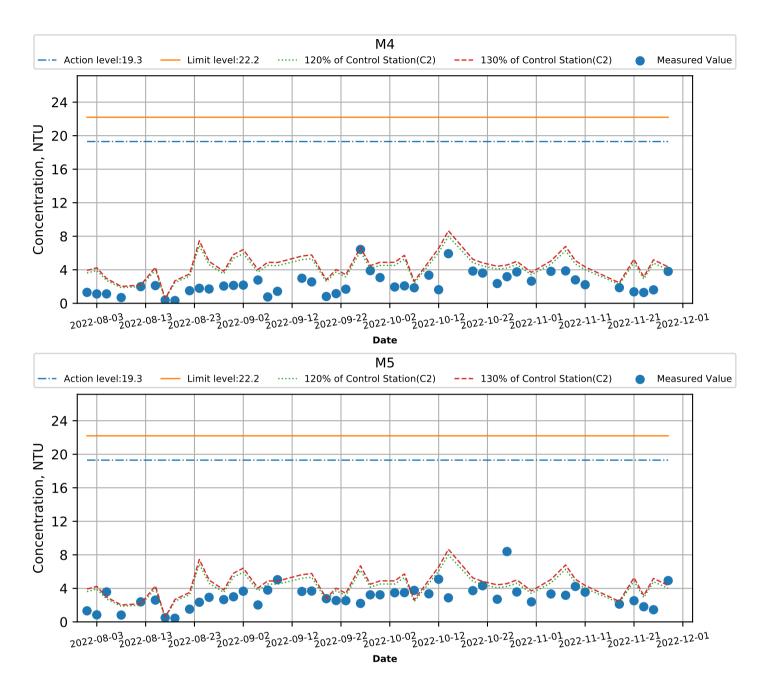


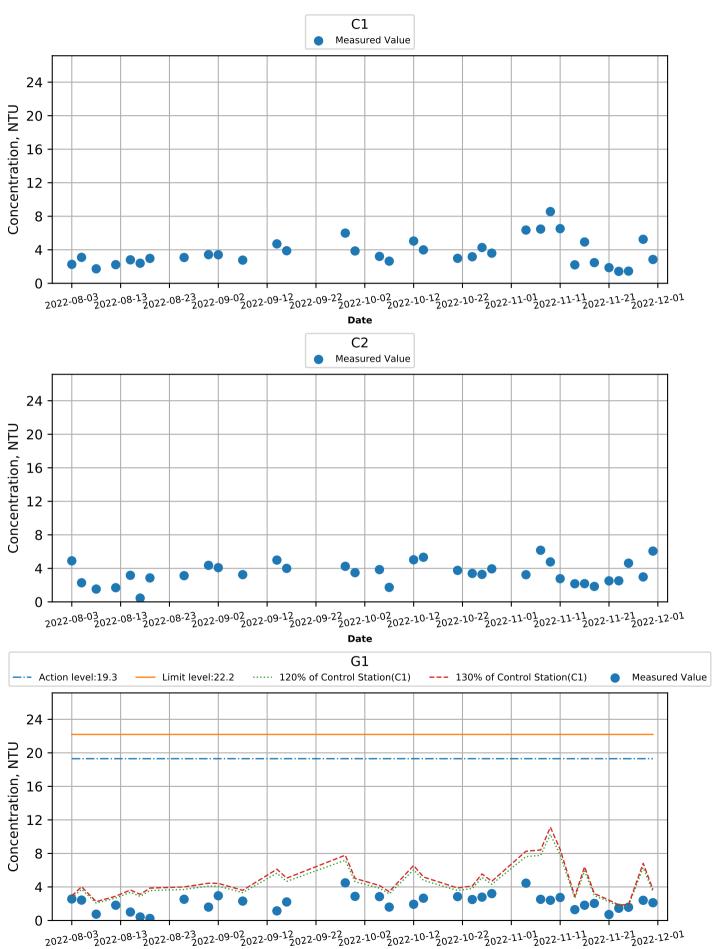




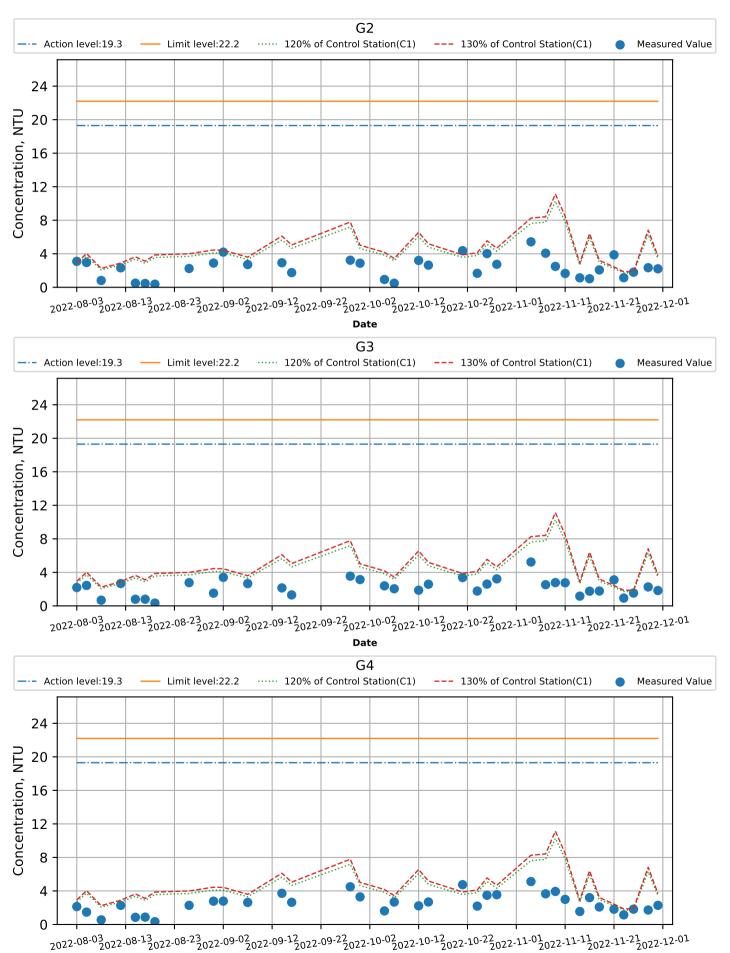




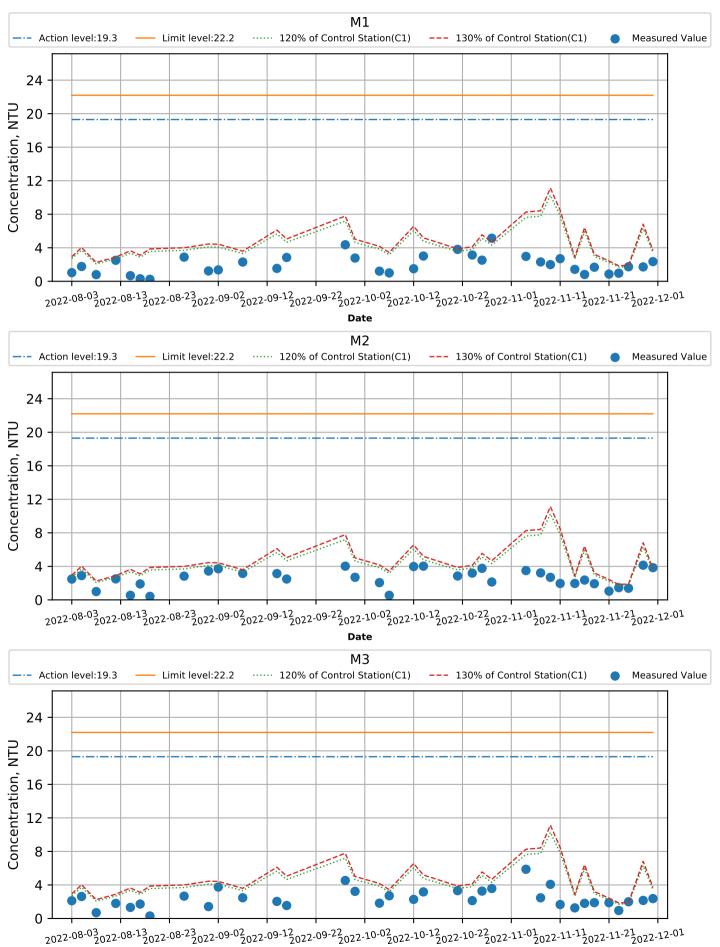


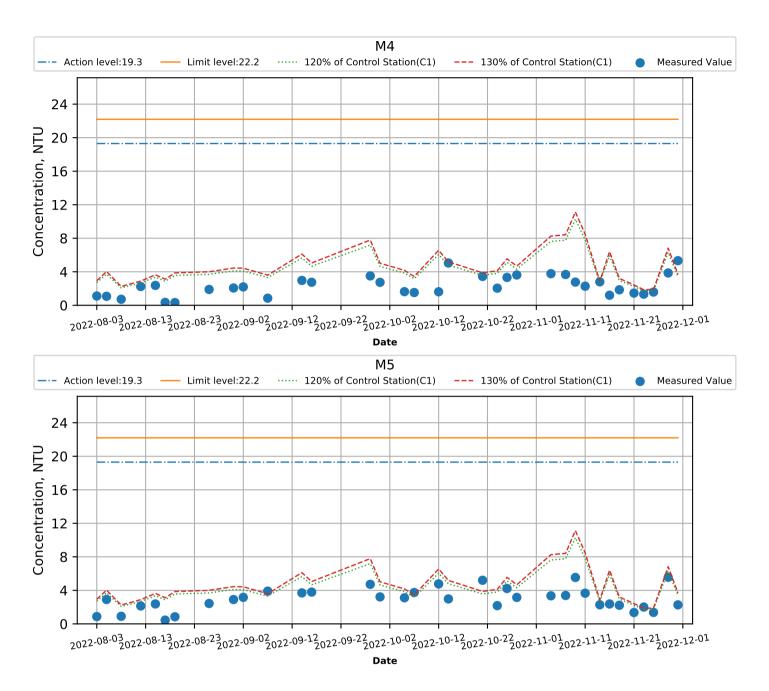


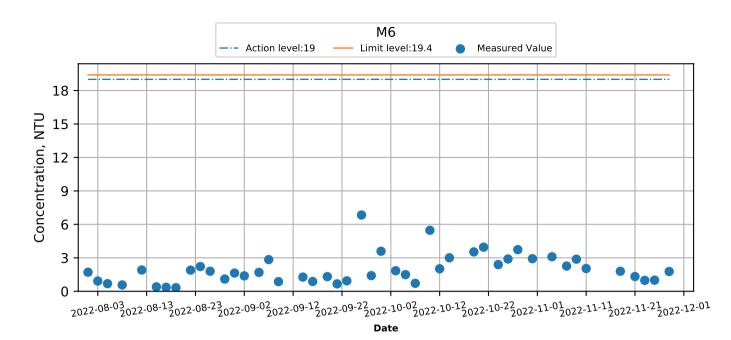


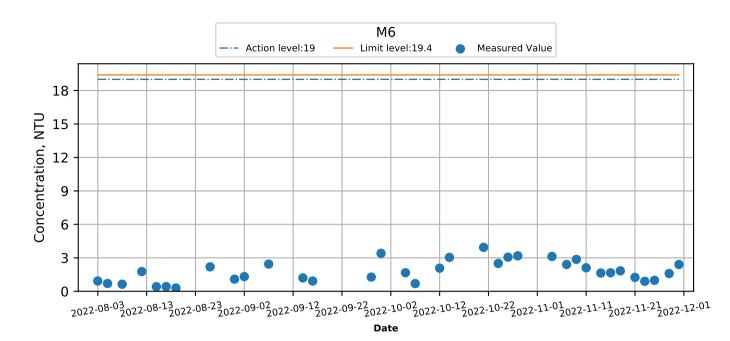


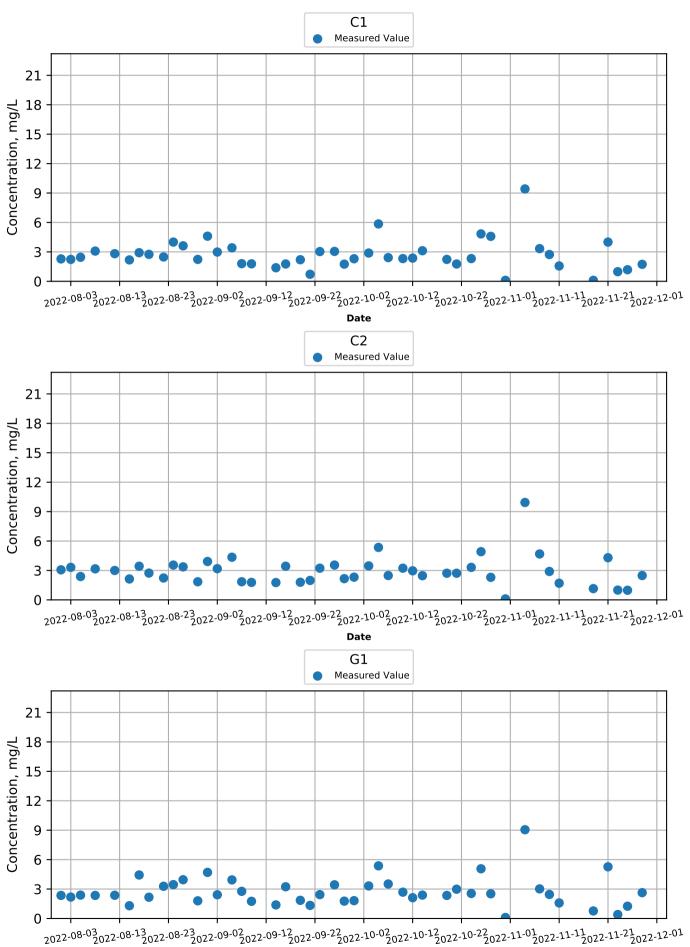


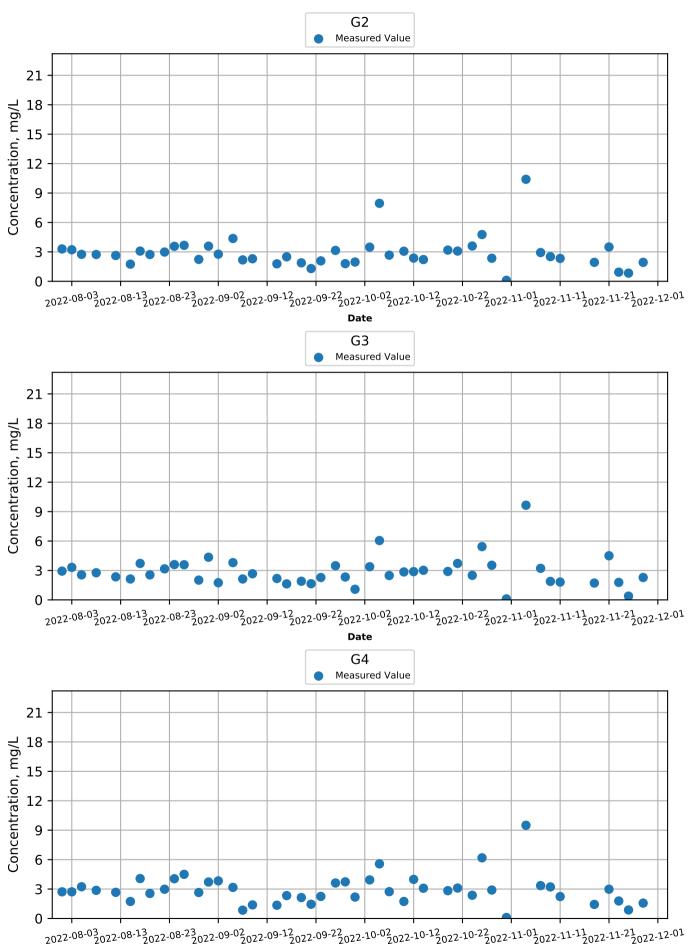


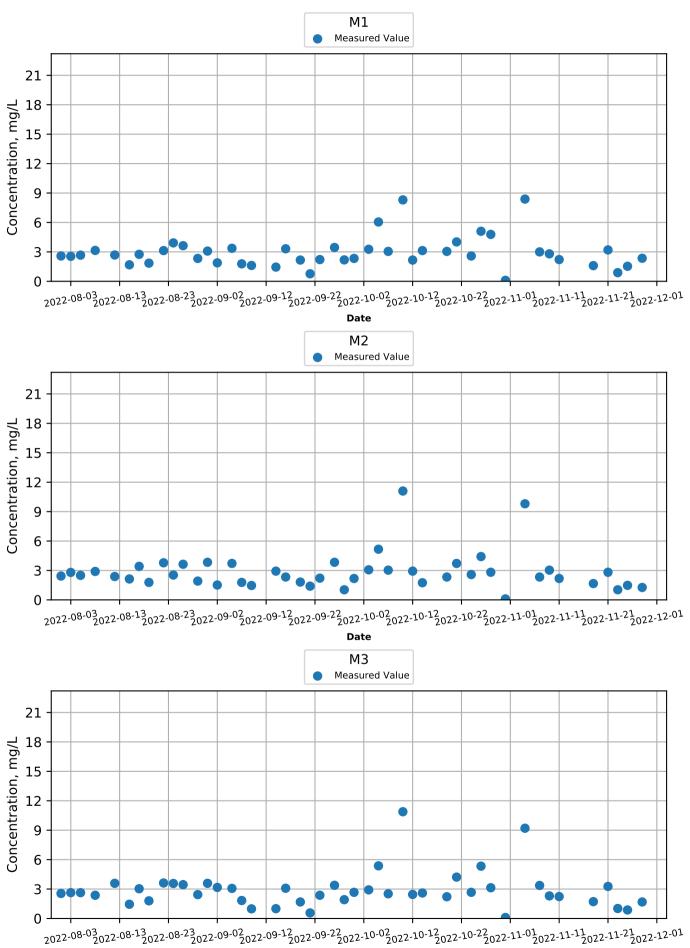


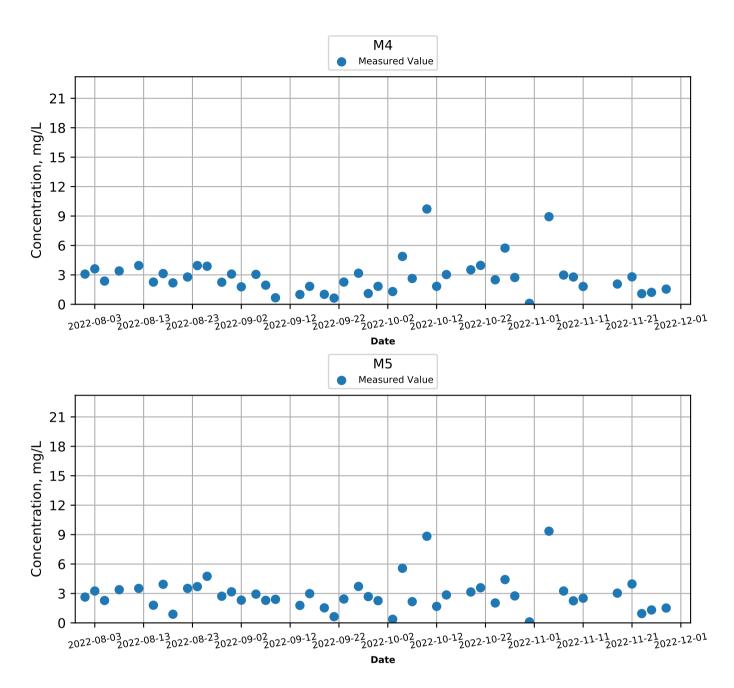


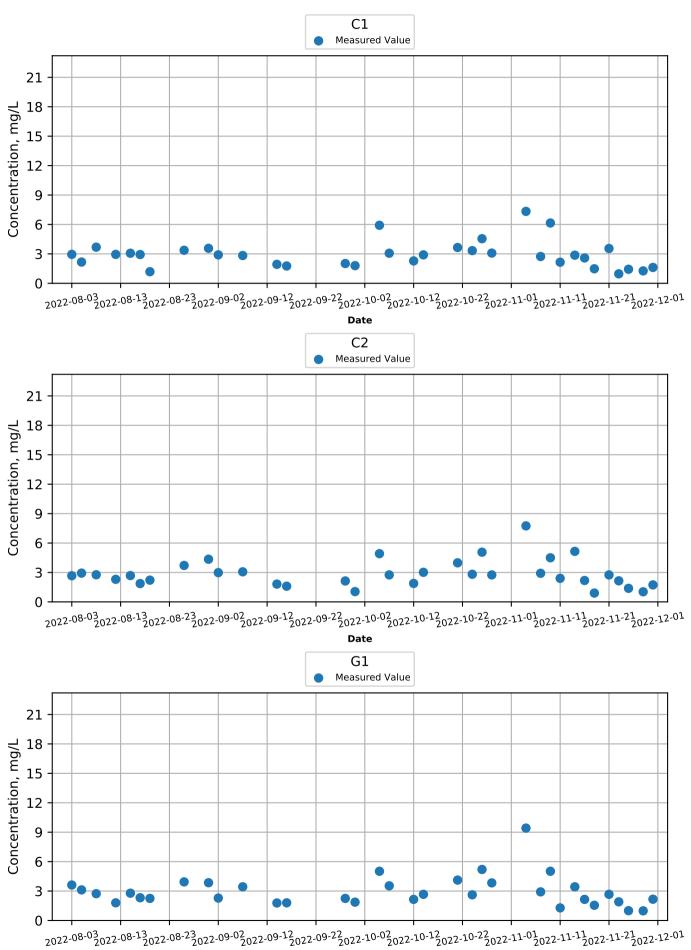


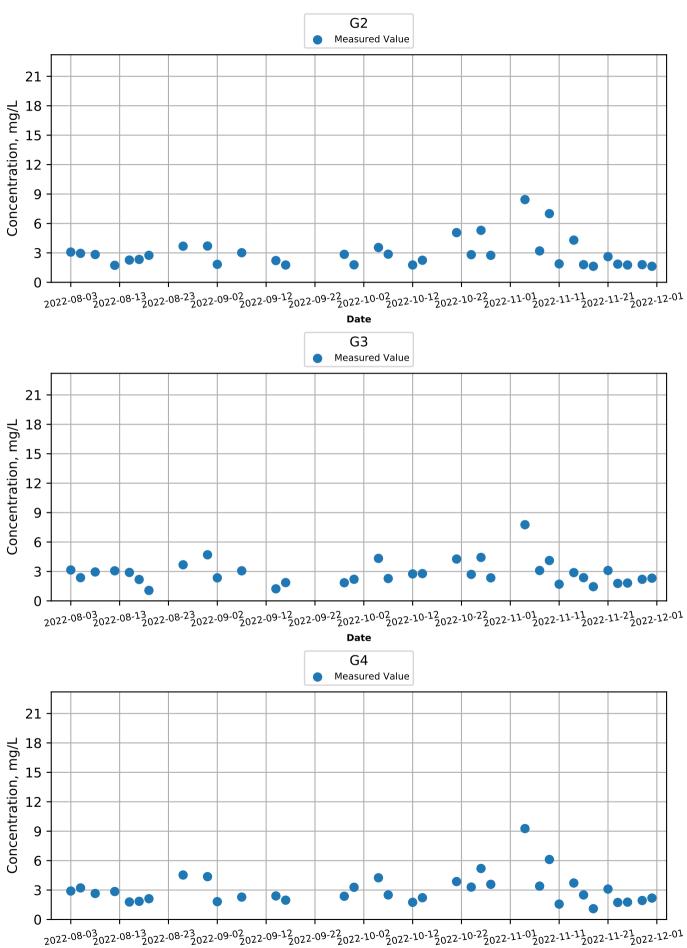


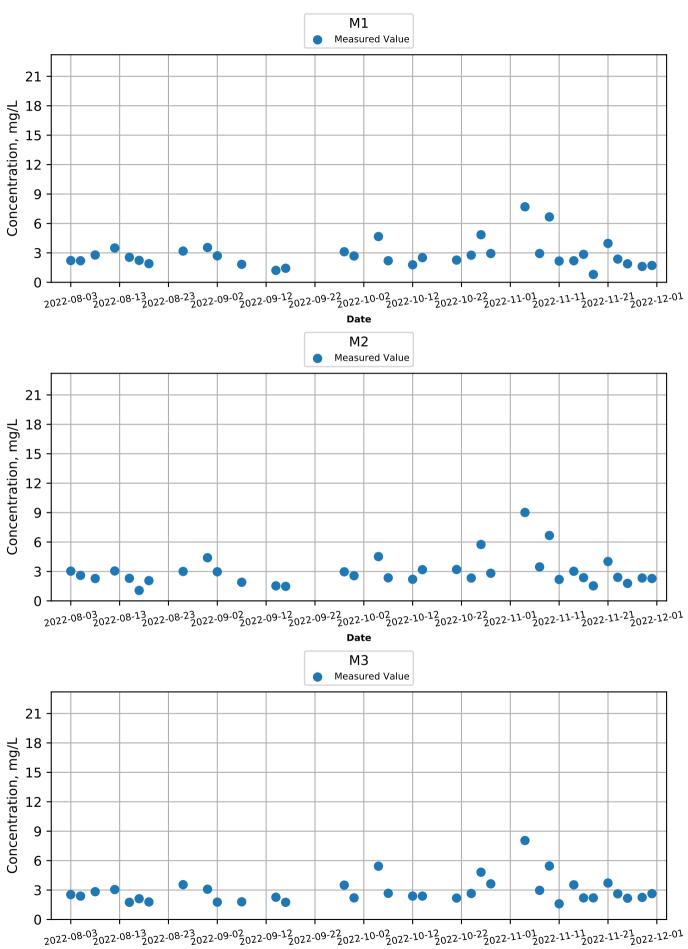


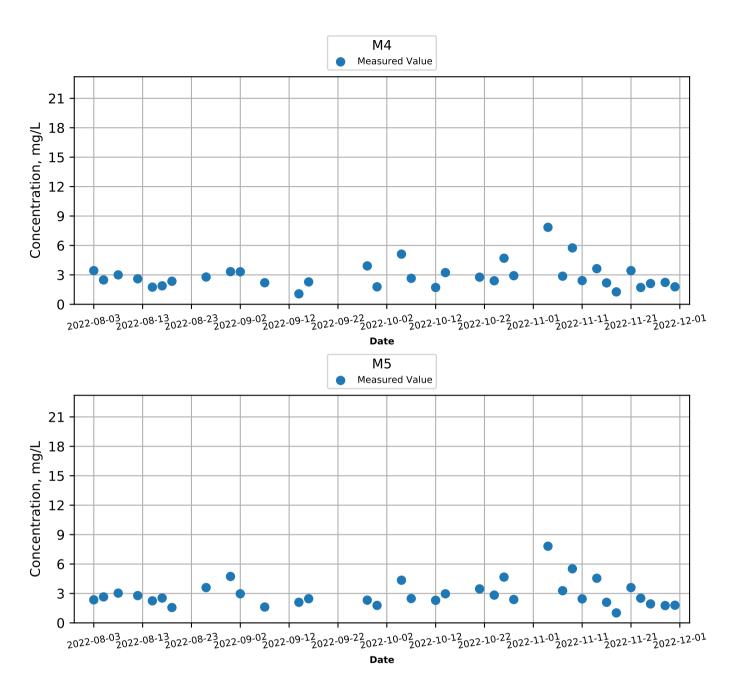


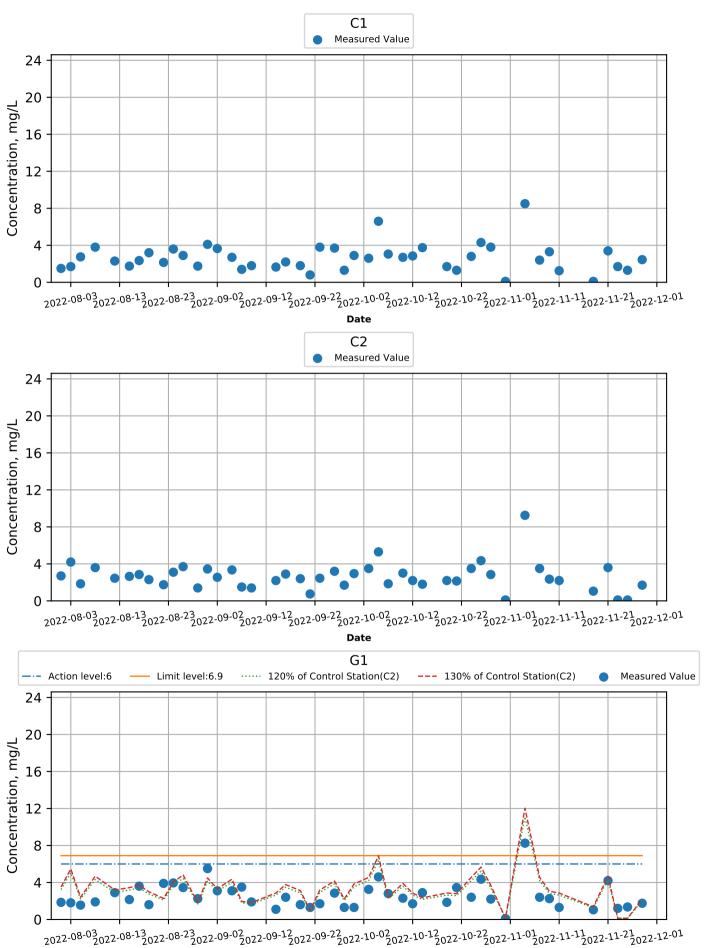


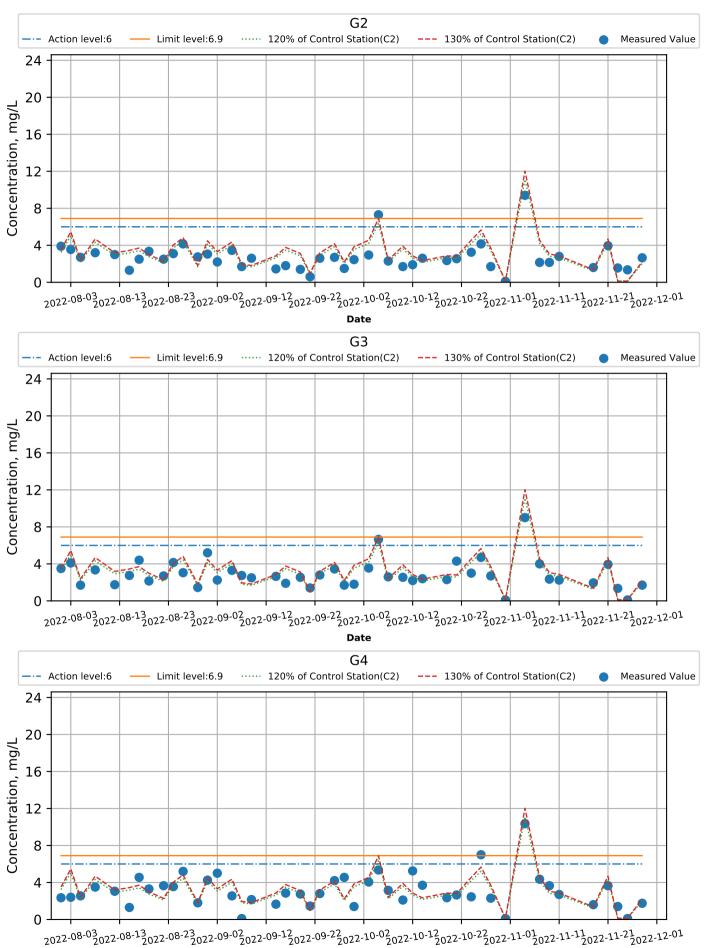


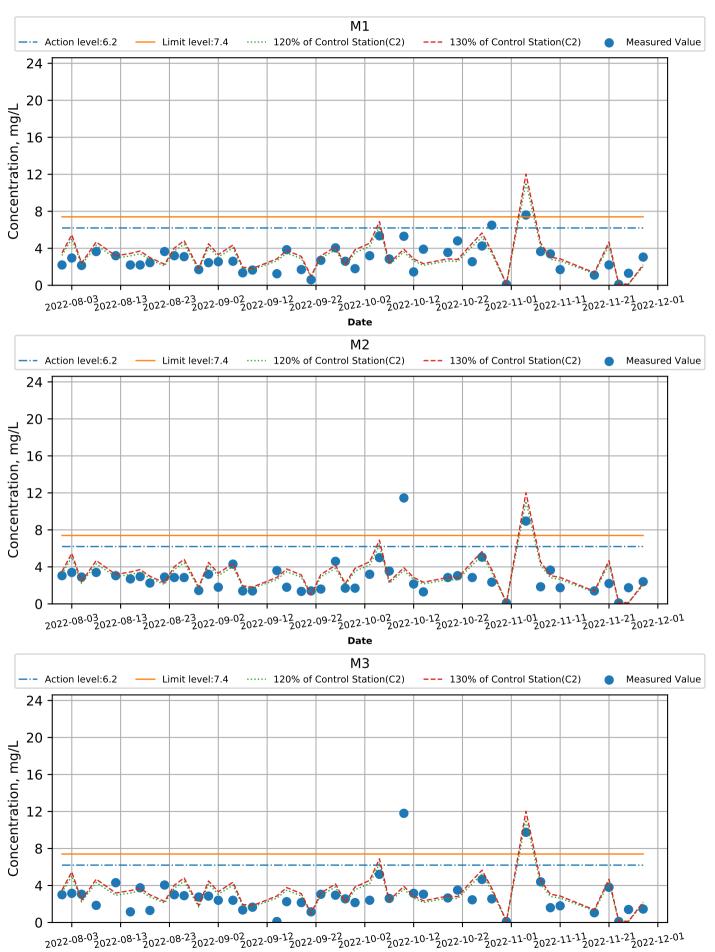


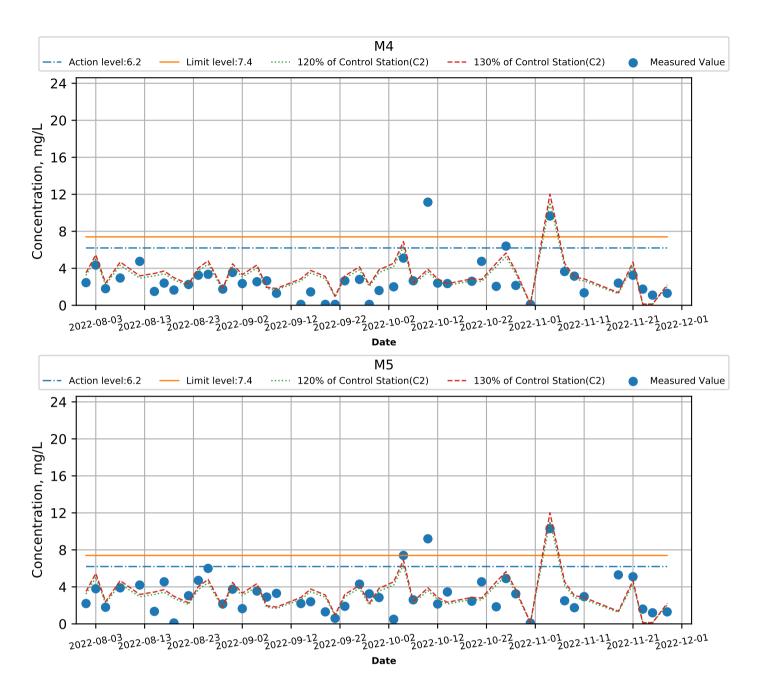


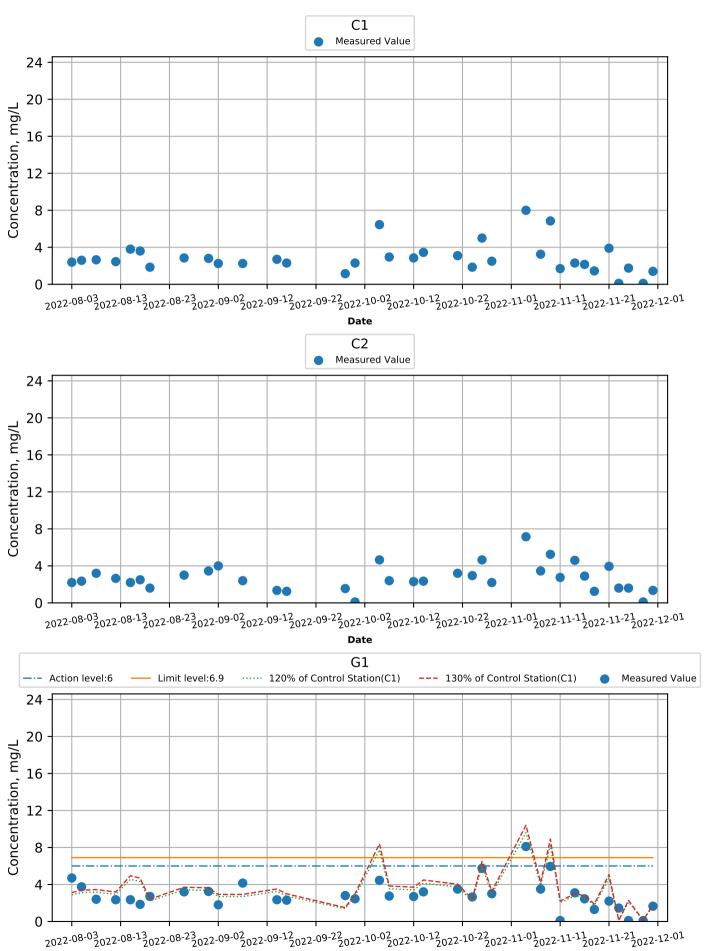


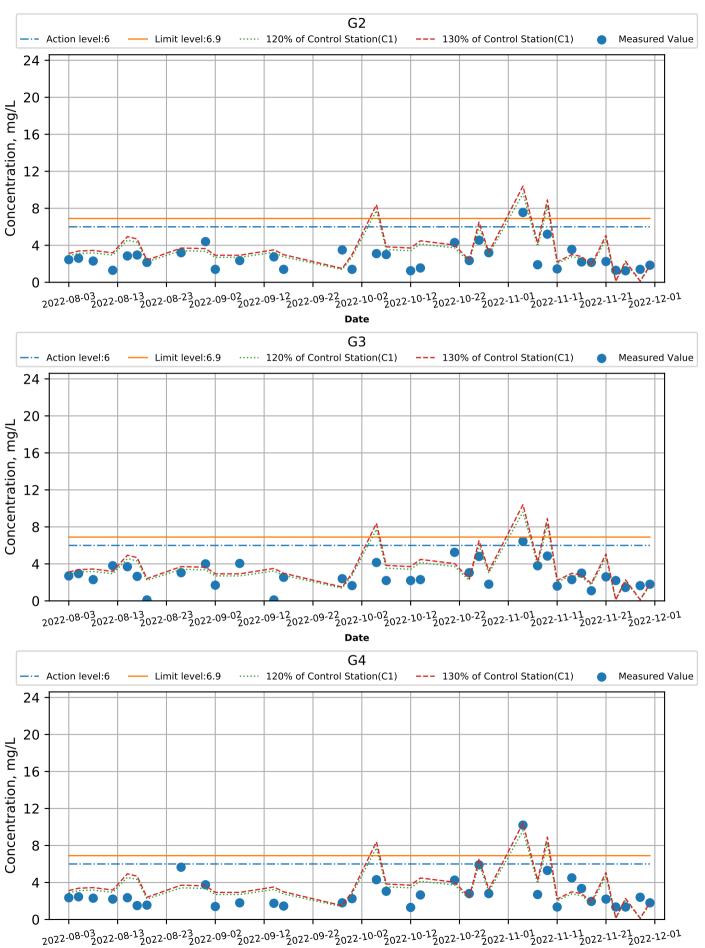


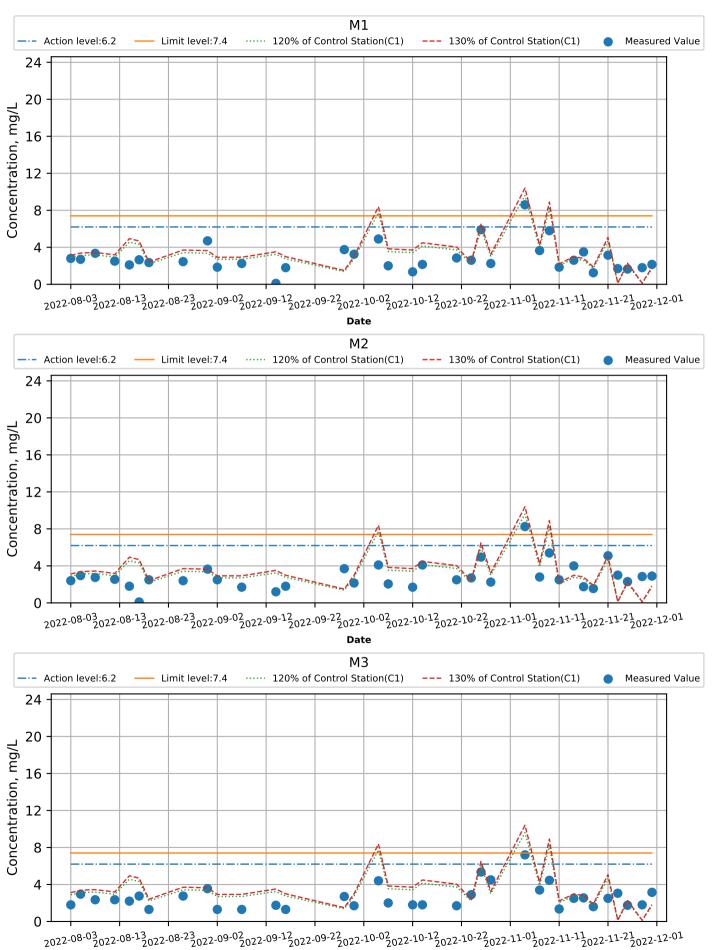


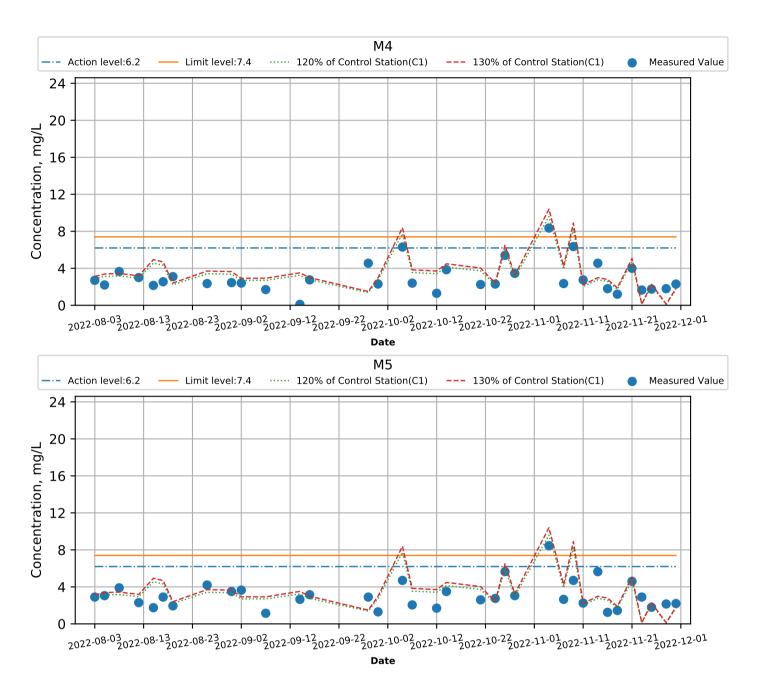


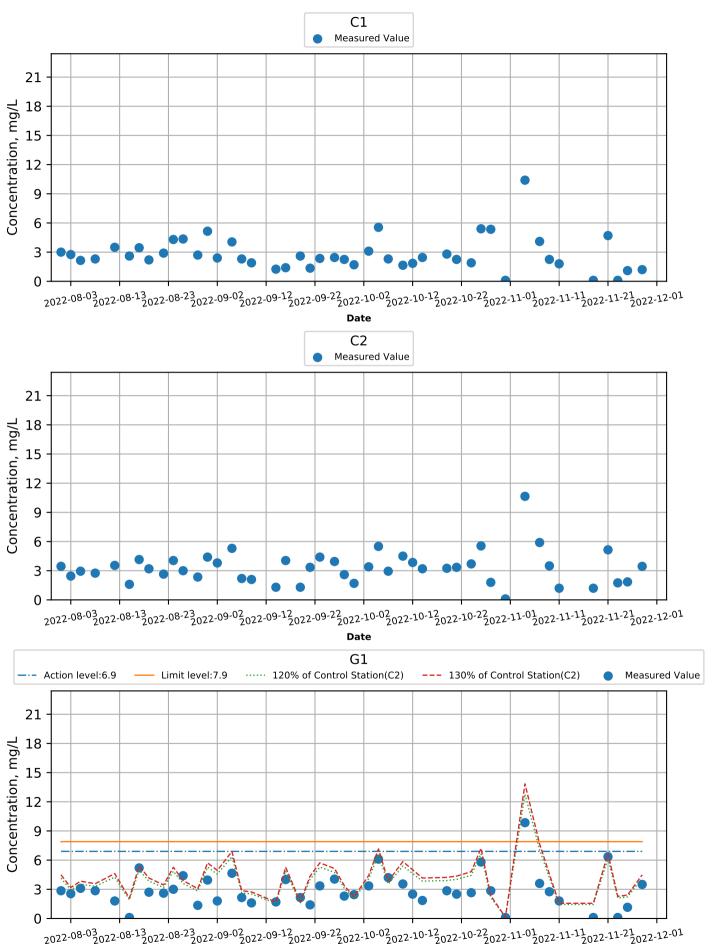


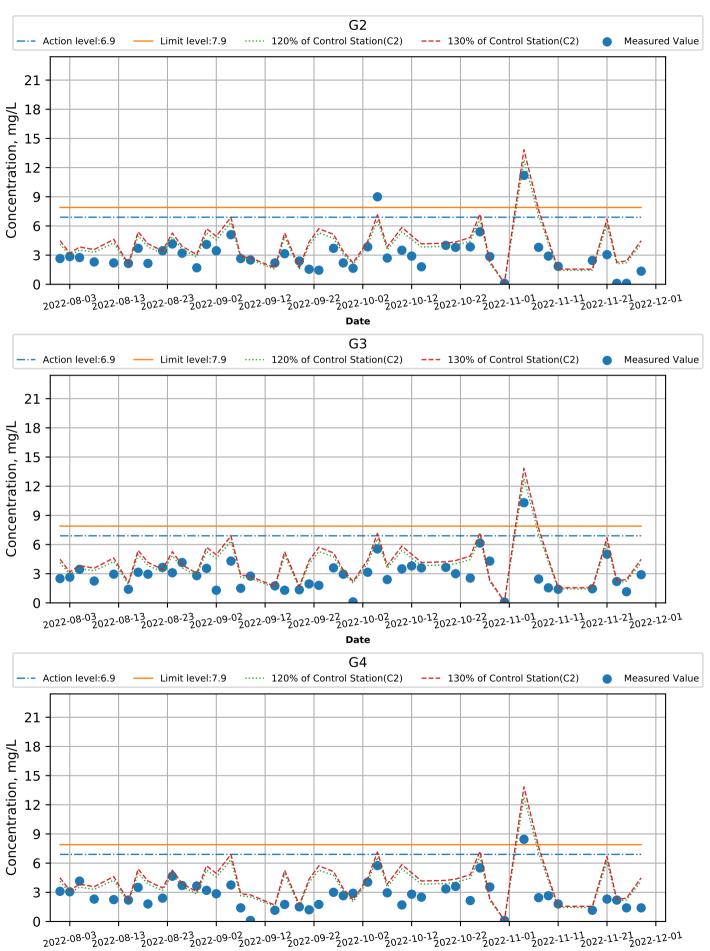


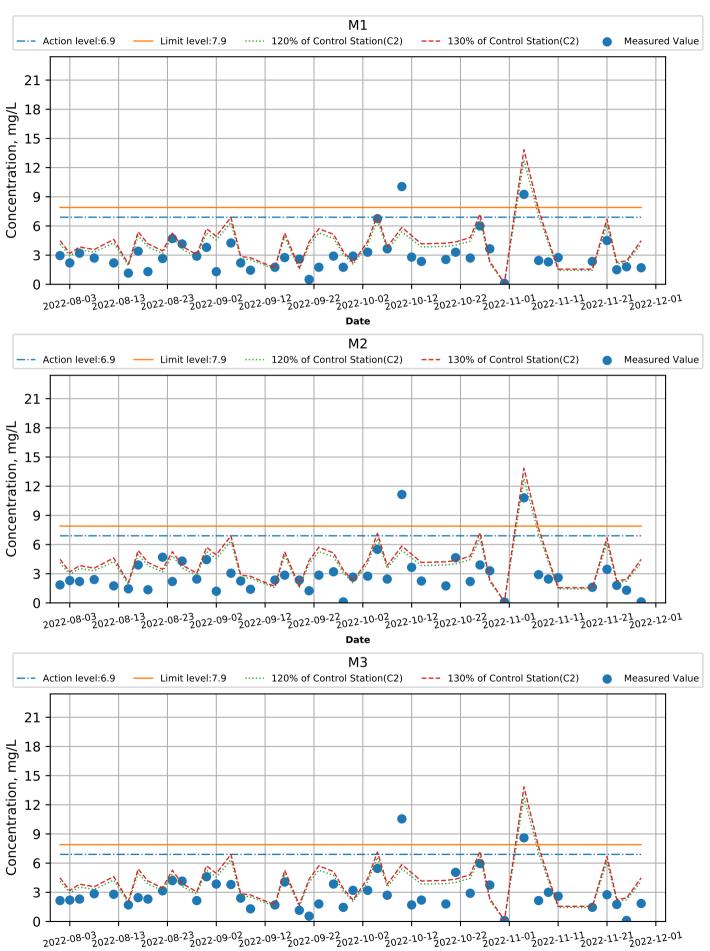


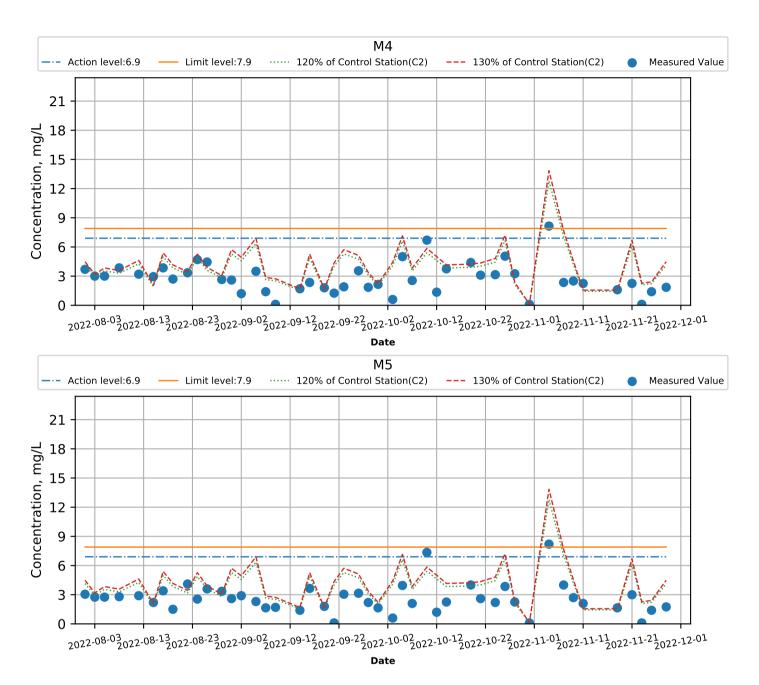


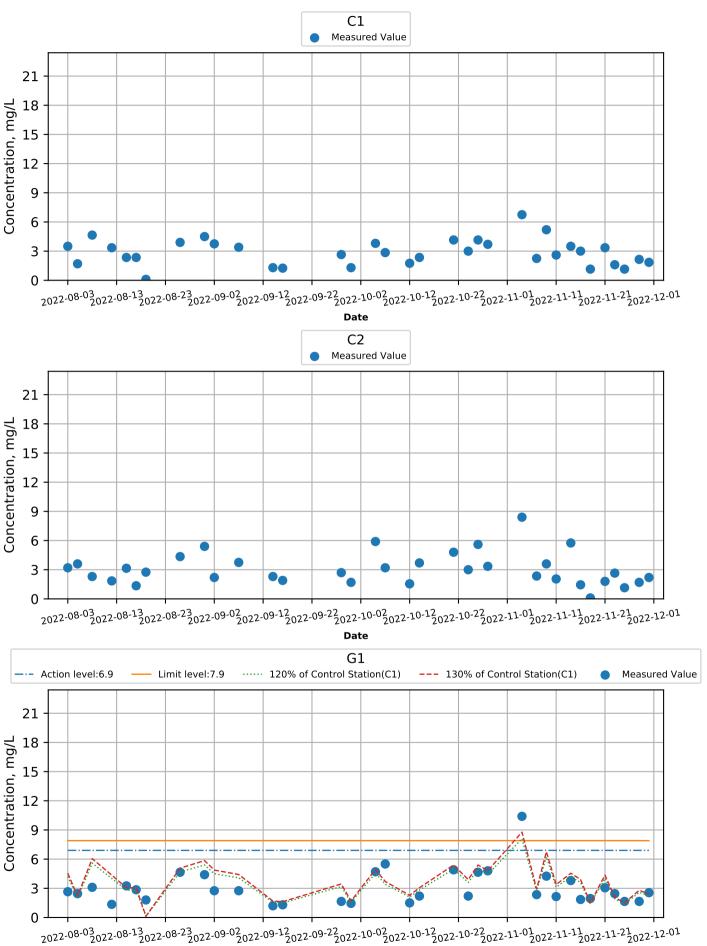


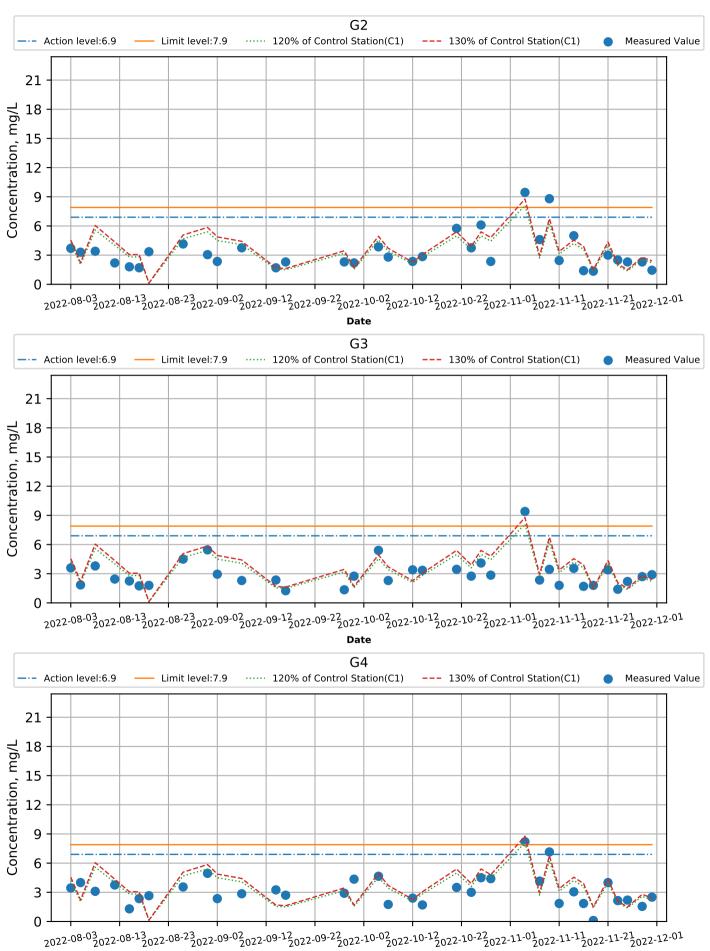


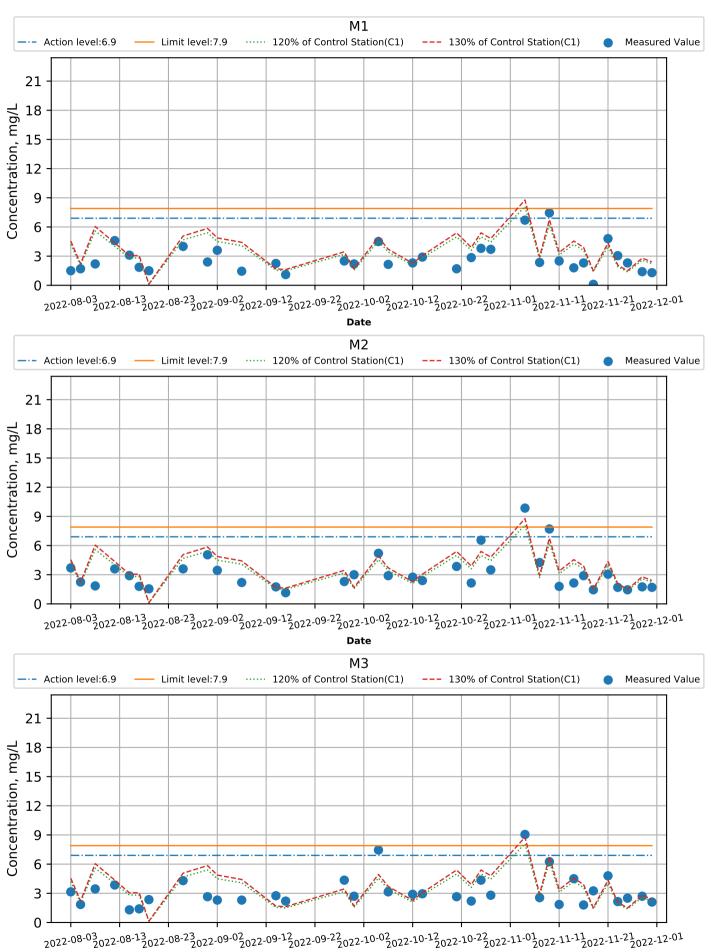


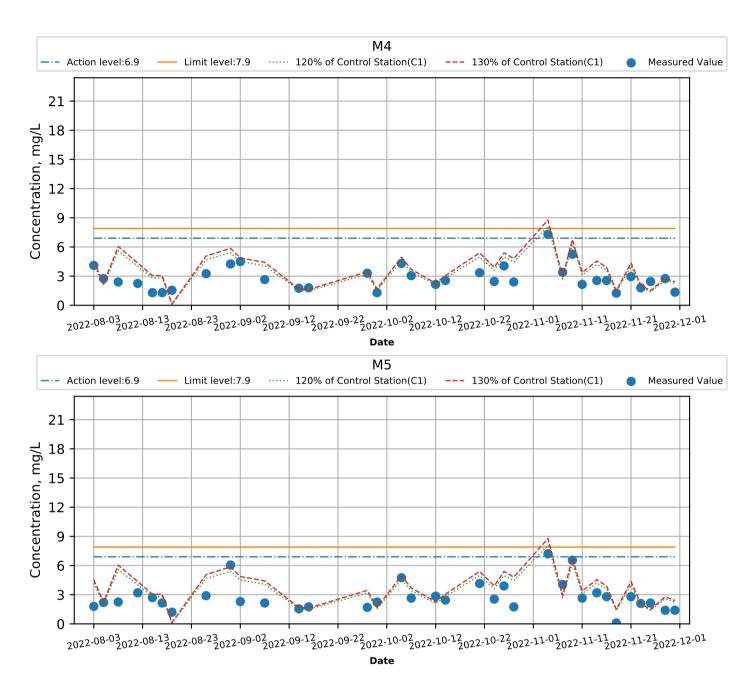


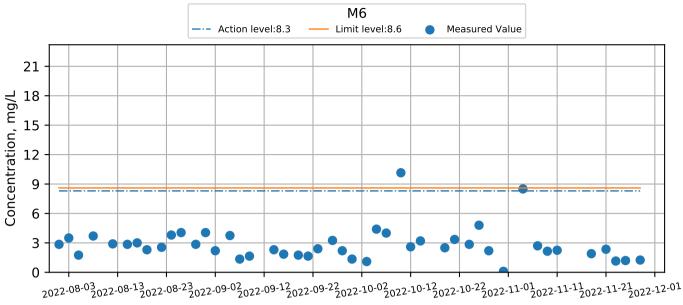




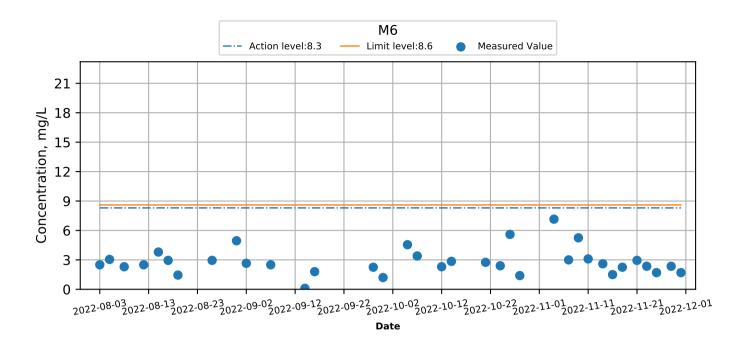












APPENDIX J QUALITY CONTROL REPORTS FOR LABORATORY ANALYSIS





ALS Hong Kong is staffed with qualified chemists who conduct analytical testing using well documented procedures based on the universally recognised methodologies of USEPA, APHA, ASTM.

All laboratory procedures are regulated by comprehensive QA / QC programmes established to monitor and control every aspect of the operation. A minimum of 10% of all samples analysed by ALS Technichem are part of the Quality Assurance protocol.

The laboratory is HOKLAS accredited (Reg. No. 066) for a large range of chemical and biological tests covering environmental and food analyses.

Our QA/QC procedures are designed to ensure reliable analytical results to our clients.

1. INSTRUMENT CALIBRATION

All equipment and instruments meet the requirements and specifications of the documented test procedures.

1.1 Daily Performance Checks

The performance checks are carried out once in every 24 hour operating period for most capital instruments, such as:

- Liquid Chromatography Mass Spectrometry/Mass Spectrometry
- Gas Chromatography Mass Selective Detector
- Gas Chromatography Flame Ionization Detector
- Gas Chromatography Electron Capture Detector
- Inductively Coupled Plasma Mass Spectrometer
- Inductively Coupled Plasma Atomic Emission Spectrometer
- Flow Injection Mercury Analyzer
- Automatic Discret Analyzer
- Flow Injection Analyzer
- Electronic Balance

Should the instrument fail the daily check repeatedly then the appropriate maintenance is undertaken to rectify the problem prior to sample analysis.

1.2 Calibration

A minimum 5 point calibration covering the working range of the samples to be analysed is run with each group of samples. Laboratory Blanks are run at a frequency of 1 in every 20 samples or 1 between each analytical lot of samples, which ever is the more frequent. A mid-range calibration standard is analysed regularly during the operating period to ensure consistency.

1.3 Calibration Check

A calibration standard is analysed regularly during the operating period to ensure consistency.

2. QUALITY CONTROL (QC) SAMPLES

QC samples comprise those which monitor and control the laboratory performance namely Laboratory Control Sample (LCS), Duplicate Control Sample (DCS), Method Blanks and those which are used for data assessment and the evaluation of matrix effects by using Surrogates, Matrix Spike (MS), Matrix Spike Duplicate (MSD) and Sample Duplicates.

Field contamination is monitored by the analysis of Trip Blanks (VOCs) and Equipment Rinsate Samples.

The organics laboratory processes field samples in QC lots of 20 according to the analysis required. These 20 samples may consist of a number of sample batches independently submitted to the laboratory.

The inorganics laboratory lots samples in groups of 20 to 50 depending on the analyte to be determined. Quality control samples such as Laboratory Blanks and Quality Control Sample, and/or Certified Reference Materials (CRM) are run at a frequency of 1 in 20 per 'lot' of samples. Sample Duplicates and Matrix Spikes are run at a frequency of 1 in 20 or 1 per batch, whichever is more frequent.

2.1 Laboratory Control Sample (LCS) & Duplicate Control Sample (DCS) - (Organics only)

(a) Accuracy - the closeness of agreement between an observed value and a reference value.

The observed value is the average of the LCS and the DCS values. The reference value is the spike value. The accuracy is expressed as the % Recovery and is calculated as follows:

% Recovery = (Observed Value/Spiked Value) x 100

(b) Precision - the agreement among a set of replicate results.

Precision is expressed as the Relative Percent Difference (RPD) between the LCS and DCS detected levels, against the average of these levels.

The RPD is calculated as follows:

RPD = [(Results 1 - Result 2) / Average] x 100





The accuracy and precision data are evaluated against laboratory established control limits. (If laboratory control limits have not been established for a particular method, control limits as specified in USEPA SW 846 may be utilised).

QC results falling outside the control limits are automatically flagged.

The acceptance criterion used is that 80 percent of the precision and accuracy values must fall within the control limits. If this criterion is not met, corrective action must be taken. This may include repeat sample analysis.

2.2 Laboratory / Reagent Blank

For the laboratory blank to be acceptable, the concentration in the blank of any analyte of concern should not be higher than $\frac{1}{2}$ of reporting limit (LOR) for that analyte.

Blank correction may be performed if the blank result is found to be greater than LOR and it is attributed to the analytical method and/or reagents involved.

2.3 Surrogates (Organics Only)

Surrogate results are reported as percent recovery. Since surrogate spike recoveries indicate the presence of sample specific interferences, USEPA documented recovery limits are used as a guidance only.

The surrogate standards are used for semivolatile and volatile analyses. The semivolatile analysis includes SVOC, pesticide and PCB tests. The volatile analysis includes VOC and BTEX.

2.4 Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

MS and MSD results are used for data assessment and evaluation of method precision and bias in a given matrix.

2.5 Sample Duplicate

The duplicate results are used for evaluation of laboratory precision in a given matrix.

The RPD values of the duplicates are used as the rejection or acceptance criteria.

Generally, water samples are repeated if the RPD is greater than 20 percent and there is sufficient sample for reanalysis.

The RPD for soils should be within 25 percent, however, this may be dependent upon sample homogeneity.





TABLE 1: QC TERMS, DEFINITIONS, PURPOSE FOR MONITORING & FREQUENCY

QC TERM	DEFINITION	TO MONITOR	FREQUENCY
Work Order	A set of samples received from a customer for analysis.	-	-
QC Lot	A set of 20 samples analysed under the same analytical conditions. A QC Lot may consist of samples from a number of work orders.	-	-
Analytical Lot	A group of samples prepared at the same time for a given analyte.	-	-
Control Limits	Upper and lower limits based on statistical analysis of laboratory historical performance data.	Laboratory precision and bias.	-
Laboratory Quality Control Sam	ples		
Method Blank (BLK)	An analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation.	Contamination introduced in the laboratory.	1 per QC lot of 20 samples
Sample Duplicate (DUP)	An intra-laboratory split sample randomly selected from the sample batch.	Method precision in a given sample matrix.	1 per QC lot of 20 samples
Matrix Spike <i>(MS)</i>	A split sample spiked with the target analytes prior to sample preparation and analysis.	Method bias in a given sample matrix.	1 per QC lot of 20 samples
Matrix Spike Duplicate (MSD)	An split sample spiked as per the MS.	Ditto	ditto
Laboratory Control Sample (LCS)	A known, interference free matrix spiked with target analytes.	Laboratory preparation technique.	1 per QC lot of 20 samples
Duplicate Control Sample (DCS)	As per the SCS.	Preparation technique reproducibility (precision).	Ditto
Certified Reference Material (CRM)	A certified reference material containing target analytes with known concentrations and associated uncertainities and	Monitoring overall performance of each step during analysis, including sample preparation. For Inorganic analysis.	1 per QC Lot, per analytical method.
Surrogate Spike (organic testing only)	Compounds similar in composition and behaviour to the target analytes but not commonly found in samples.	Matrix interference on a per sample basis.	Surrogates are added to all samples for selected organic analyses.
Filed Quality Control Samples	·	·	·
Equipment Rinsate	A sample of reagent water used by client in field to rinse the sampling equipment between the decontamination and sampling steps	Equipment decontamination.	as directed by client.
Trip Blank (usually VOC testing)	A sample of analyte free media is taken from the laboratory to the sampling site and returned to the laboratory unopened.	Contamination from shipping and field handling. Most applicable to volatile analysis.	as directed by client.





TABLE 2: LABORATORY QUALITY CONTROL SCHEDULES

ORGANICS –

QUALITY CONTROL ITEM	QCS2	QCS3	QCS4
Laboratory Blank	\checkmark	\checkmark	\checkmark
Batch Duplicate	\checkmark	\checkmark	\checkmark
Matrix Spike (MS)	•	\checkmark	\checkmark
Single Control Sample (SCS)	\checkmark	\checkmark	\checkmark
Duplicate Control Sample (DCS)	•	٠	\checkmark
Surrogate (organics only)	\checkmark	\checkmark	\checkmark
Matrix Spike Duplicate (MSD)	•	•	

INORGANICS -

QUALITY CONTROL ITEM	QCS2	QCS3	QCS4
Laboratory Blank	\checkmark	\checkmark	\checkmark
Batch Duplicate	\checkmark	\checkmark	\checkmark
Matrix Spike (MS)	\checkmark	\checkmark	\checkmark
Single Control Sample (SCS)	\checkmark	\checkmark	\checkmark
Duplicate Control Sample (DCS)	•	•	\checkmark
Matrix Spike Duplicate (MSD)	•	•	\checkmark

 $\sqrt{}$ Analysis performed in the schedule.

• Analysis not performed in the schedule.

APPENDIX K SUMMARY OF EXCEEDANCE

Appendix K – Summary of Exceedance

Reporting Period: November 2022

(A) Exceedance Report for Air Quality

No limit level exceedance for air quality monitoring of 24-hr TSP was recorded in the reporting month.

No action level exceedance for air quality monitoring of 24-hr TSP was recorded in the reporting month.

No exceedance for air quality monitoring of 1-hr TSP was recorded in the reporting month.

(B) Exceedance Report for Construction Noise

Action Level for Construction Noise

Two (2) action level exceedances were recorded due to the documented complaints received in this reporting month.

Limit Level for Construction Noise

No limit level exceedance for daytime construction noise monitoring was recorded in the reporting month.

No exceedance for evening-time construction noise monitoring was recorded in the reporting month.

No exceedance for nighttime construction noise monitoring was recorded in the reporting month, none of them is considered to be project-related.

(C) Exceedance Report for Water Quality

Twenty-one (21) Action Level and sixty-six (66) Limit Level exceedances were recorded in Monitoring Stations (M) during marine water quality monitoring.

No action and limit level exceedance were recorded for post-reclamation marine water quality monitoring.

Refer to the attached notifications and investigation report for details. Since October 2019, groundwater monitoring had been suspended.

(D) Exceedance Report for Ecology

(NIL in the reporting month)

- (E) Exceedance Report for Cultural Heritage (NIL in the reporting month)
- (F) Exceedance Report for Landfill Gas (NIL in the reporting month)

- Notification of Exceedance

Date of Water Quality Monitoring:

04 November 2022

Part A – Exceedance Summary Tables

 Table I:
 Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	9.3	G1	8:48	6.0	6.9	11.1	12.0	<u>8.3</u>
Mid-Ebb	C2	surface	9.3	G2	8:43	6.0	6.9	11.1	12.0	<u>9.4</u>
Mid-Ebb	C2	surface	9.3	G3	8:51	6.0	6.9	11.1	12.0	<u>9.0</u>
Mid-Ebb	C2	surface	9.3	G4	8:56	6.0	6.9	11.1	12.0	<u>10.4</u>
Mid-Ebb	C2	surface	9.3	M1	8:46	6.2	7.4	11.1	12.0	<u>7.6</u>
Mid-Ebb	C2	surface	9.3	M2	8:40	6.2	7.4	11.1	12.0	<u>9.0</u>
Mid-Ebb	C2	surface	9.3	M3	8:53	6.2	7.4	11.1	12.0	<u>9.8</u>
Mid-Ebb	C2	surface	9.3	M4	8:36	6.2	7.4	11.1	12.0	9.7
Mid-Ebb	C2	surface	9.3	M5	9:04	6.2	7.4	11.1	12.0	<u>10.3</u>
Mid-Ebb	C2	bottom	10.7	G1	8:48	6.9	7.9	12.8	13.8	9.9
Mid-Ebb	C2	bottom	10.7	G2	8:43	6.9	7.9	12.8	13.8	<u>11.2</u>
Mid-Ebb	C2	bottom	10.7	G3	8:51	6.9	7.9	12.8	13.8	<u>10.3</u>
Mid-Ebb	C2	bottom	10.7	G4	8:56	6.9	7.9	12.8	13.8	<u>8.5</u>
Mid-Ebb	C2	bottom	10.7	M1	8:46	6.9	7.9	12.8	13.8	<u>9.3</u>
Mid-Ebb	C2	bottom	10.7	M2	8:40	6.9	7.9	12.8	13.8	<u>10.8</u>
Mid-Ebb	C2	bottom	10.7	M3	8:53	6.9	7.9	12.8	13.8	<u>8.6</u>
Mid-Ebb	C2	bottom	10.7	M4	8:36	6.9	7.9	12.8	13.8	<u>8.2</u>
Mid-Ebb	C2	bottom	10.7	M5	9:04	6.9	7.9	12.8	13.8	<u>8.2</u>
Mid-Ebb	C2	intake	n.a.	M6	16:05	8.3	8.6	n.a.	n.a.	8.5

Date of Water Quality Monitoring:

<u>04 November 2022</u>

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Flood	C1	surface	8.0	G1	15:53	6.0	6.9	9.6	10.4	<u>8.1</u>
Mid-Flood	C1	surface	8.0	G2	15:47	6.0	6.9	9.6	10.4	<u>7.6</u>
Mid-Flood	C1	surface	8.0	G3	15:56	6.0	6.9	9.6	10.4	6.5
Mid-Flood	C1	surface	8.0	G4	16:01	6.0	6.9	9.6	10.4	<u>10.2</u>
Mid-Flood	C1	surface	8.0	M1	15:51	6.2	7.4	9.6	10.4	<u>8.6</u>
Mid-Flood	C1	surface	8.0	M2	15:44	6.2	7.4	9.6	10.4	<u>8.3</u>
Mid-Flood	C1	surface	8.0	M3	15:58	6.2	7.4	9.6	10.4	7.2
Mid-Flood	C1	surface	8.0	M4	15:41	6.2	7.4	9.6	10.4	<u>8.4</u>
Mid-Flood	C1	surface	8.0	M5	16:09	6.2	7.4	9.6	10.4	<u>8.5</u>
Mid-Flood	C1	bottom	6.8	G1	15:53	6.9	7.9	8.1	8.8	<u>10.4</u>
Mid-Flood	C1	bottom	6.8	G2	15:47	6.9	7.9	8.1	8.8	<u>9.5</u>
Mid-Flood	C1	bottom	6.8	G3	15:56	6.9	7.9	8.1	8.8	<u>9.4</u>
Mid-Flood	C1	bottom	6.8	G4	16:01	6.9	7.9	8.1	8.8	<u>8.2</u>
Mid-Flood	C1	bottom	6.8	M2	15:44	6.9	7.9	8.1	8.8	<u>9.9</u>
Mid-Flood	C1	bottom	6.8	M3	15:58	6.9	7.9	8.1	8.8	<u>9.1</u>
Mid-Flood	C1	bottom	6.8	M4	15:41	6.9	7.9	8.1	8.8	7.3
Mid-Flood	C1	bottom	6.8	M5	16:09	6.9	7.9	8.1	8.8	7.2

Note: **Bold** means Action Level exceedance of Control (**Regular**) & Baseline (**Italic**)

- Notification of Exceedance

Date of Water Quality Monitoring:

04 November 2022

Part A – Exceedance Summary Tables

 Table II:
 Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-Ebb	C2	3.9	G2	8:43	4.7	5.1	<u>5.7</u>
Bottom	19.3	22.2	Mid-Ebb	C2	3.9	G4	8:56	4.7	5.1	<u>5.2</u>
Bottom	19.3	22.2	Mid-Ebb	C2	3.9	M3	8:53	4.7	5.1	<u>6.1</u>

Note: **Bold** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

07 November 2022

Part A – Exceedance Summary Tables

 Table I:
 Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	3.5	G4	11:00	6.0	6.9	4.2	4.6	4.4
Mid-Ebb	C2	surface	3.5	M3	10:56	6.2	7.4	4.2	4.6	4.4
Mid-Flood	C1	bottom	2.3	G2	15:41	6.9	7.9	2.7	2.9	<u>4.6</u>
Mid-Flood	C1	bottom	2.3	G4	15:57	6.9	7.9	2.7	2.9	<u>4.2</u>
Mid-Flood	C1	bottom	2.3	M2	15:37	6.9	7.9	2.7	2.9	<u>4.3</u>
Mid-Flood	C1	bottom	2.3	M4	15:32	6.9	7.9	2.7	2.9	<u>3.4</u>
Mid-Flood	C1	bottom	2.3	M5	16:04	6.9	7.9	2.7	2.9	<u>4.1</u>

Note: **Bold** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

09 November 2022

Part A – Exceedance Summary Tables

 Table I:
 Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	2.4	G4	12:41	6.0	6.9	2.8	3.1	<u>3.7</u>
Mid-Ebb	C2	surface	2.4	M1	12:31	6.2	7.4	2.8	3.1	<u>3.4</u>
Mid-Ebb	C2	surface	2.4	M2	12:23	6.2	7.4	2.8	3.1	<u>3.7</u>
Mid-Ebb	C2	surface	2.4	M4	12:21	6.2	7.4	2.8	3.1	<u>3.2</u>
Mid-Flood	C1	surface	6.9	M4	7:57	6.2	7.4	8.2	8.9	6.4
Mid-Flood	C1	bottom	5.2	G2	8:03	6.9	7.9	6.2	6.8	<u>8.8</u>
Mid-Flood	C1	bottom	5.2	G4	8:19	6.9	7.9	6.2	6.8	7.2
Mid-Flood	C1	bottom	5.2	M1	8:08	6.9	7.9	6.2	6.8	<u>7.5</u>
Mid-Flood	C1	bottom	5.2	M2	8:01	6.9	7.9	6.2	6.8	<u>7.7</u>
Mid-Flood	C1	bottom	5.2	M3	8:16	6.9	7.9	6.2	6.8	6.3
Mid-Flood	C1	bottom	5.2	M5	8:26	6.9	7.9	6.2	6.8	6.6

Note: **Bold** means Action Level exceedance of Control (**Regular**) & Baseline (**Italic**)

- Notification of Exceedance

Date of Water Quality Monitoring:

09 November 2022

Part A – Exceedance Summary Tables

 Table II:
 Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-Ebb	C2	3.9	M3	12:40	4.7	5.1	<u>5.5</u>

Note:Bold means Action Level exceedance of Control (Regular) & Baseline (Italic)Bold with underlinemeans Limit Level exceedance of Control (Regular) & Baseline (Italic)

- Notification of Exceedance

Date of Water Quality Monitoring:

11 November 2022

Part A – Exceedance Summary Tables

 Table I:
 Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	2.2	G2	12:28	6.0	6.9	2.6	2.9	2.8
Mid-Ebb	C2	surface	2.2	G4	12:43	6.0	6.9	2.6	2.9	2.7
Mid-Ebb	C2	surface	2.2	M5	12:51	6.2	7.4	2.6	2.9	<u>3.0</u>
Mid-Ebb	C2	bottom	1.2	G1	12:35	6.9	7.9	1.4	1.6	<u>1.8</u>
Mid-Ebb	C2	bottom	1.2	G2	12:28	6.9	7.9	1.4	1.6	<u>1.9</u>
Mid-Ebb	C2	bottom	1.2	G4	12:43	6.9	7.9	1.4	1.6	<u>1.8</u>
Mid-Ebb	C2	bottom	1.2	M1	12:30	6.9	7.9	1.4	1.6	<u>2.8</u>
Mid-Ebb	C2	bottom	1.2	M2	12:23	6.9	7.9	1.4	1.6	<u>2.6</u>
Mid-Ebb	C2	bottom	1.2	M3	12:40	6.9	7.9	1.4	1.6	<u>2.6</u>
Mid-Ebb	C2	bottom	1.2	M4	12:20	6.9	7.9	1.4	1.6	<u>2.3</u>
Mid-Ebb	C2	bottom	1.2	M5	12:51	6.9	7.9	1.4	1.6	<u>2.1</u>
Mid-Flood	C1	surface	1.7	M2	8:21	6.2	7.4	2.0	2.2	<u>2.5</u>
Mid-Flood	C1	surface	1.7	M4	8:16	6.2	7.4	2.0	2.2	<u>2.8</u>
Mid-Flood	C1	surface	1.7	M5	8:48	6.2	7.4	2.0	2.2	<u>2.3</u>

Note: **Bold** means Action Level exceedance of Control (**Regular**) & Baseline (**Italic**)

- Notification of Exceedance

Date of Water Quality Monitoring:

14 November 2022

Part A – Exceedance Summary Tables

 Table I:
 Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Flood	C1	surface	2.3	G1	13:12	6.0	6.9	2.8	3.0	<u>3.1</u>
Mid-Flood	C1	surface	2.3	G2	13:06	6.0	6.9	2.8	3.0	<u>3.6</u>
Mid-Flood	C1	surface	2.3	G4	13:18	6.0	6.9	2.8	3.0	<u>4.5</u>
Mid-Flood	C1	surface	2.3	M2	13:04	6.2	7.4	2.8	3.0	<u>4.0</u>
Mid-Flood	C1	surface	2.3	M4	13:00	6.2	7.4	2.8	3.0	<u>4.6</u>
Mid-Flood	C1	surface	2.3	M5	13:24	6.2	7.4	2.8	3.0	<u>5.7</u>
Mid-Flood	C1	bottom	3.5	G2	13:06	6.9	7.9	4.2	4.6	<u>5.0</u>
Mid-Flood	C1	bottom	3.5	M3	13:16	6.9	7.9	4.2	4.6	4.5

Note: **Bold** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

14 November 2022

Part A – Exceedance Summary Tables

 Table II:
 Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-flood	C1	2.2	M4	13:00	2.6	2.9	2.8

Note:Bold means Action Level exceedance of Control (Regular) & Baseline (Italic)Bold with underlinemeans Limit Level exceedance of Control (Regular) & Baseline (Italic)

- Notification of Exceedance

Date of Water Quality Monitoring:

16 November 2022

Part A – Exceedance Summary Tables

 Table I:
 Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Flood	C1	surface	2.2	G3	13:35	6.0	6.9	2.6	2.8	<u>3.0</u>
Mid-Flood	C1	surface	2.2	G4	13:42	6.0	6.9	2.6	2.8	<u>3.4</u>
Mid-Flood	C1	surface	2.2	M1	13:29	6.2	7.4	2.6	2.8	<u>3.5</u>

Note: **Bold** means Action Level exceedance of Control (**Regular**) & Baseline (**Italic**)

- Notification of Exceedance

Date of Water Quality Monitoring:

18 November 2022

Part A – Exceedance Summary Tables

 Table I:
 Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	1.1	G2	8:02	6.0	6.9	1.3	1.4	<u>1.6</u>
Mid-Ebb	C2	surface	1.1	G3	8:31	6.0	6.9	1.3	1.4	<u>2.0</u>
Mid-Ebb	C2	surface	1.1	G4	8:48	6.0	6.9	1.3	1.4	<u>1.6</u>
Mid-Ebb	C2	surface	1.1	M2	7:55	6.2	7.4	1.3	1.4	1.4
Mid-Ebb	C2	surface	1.1	M4	7:48	6.2	7.4	1.3	1.4	<u>2.4</u>
Mid-Ebb	C2	surface	1.1	M5	9:07	6.2	7.4	1.3	1.4	<u>5.3</u>
Mid-Ebb	C2	bottom	1.2	G2	8:02	6.9	7.9	1.4	1.6	<u>2.5</u>
Mid-Ebb	C2	bottom	1.2	G3	8:31	6.9	7.9	1.4	1.6	1.5
Mid-Ebb	C2	bottom	1.2	M1	8:10	6.9	7.9	1.4	1.6	<u>2.4</u>
Mid-Ebb	C2	bottom	1.2	M2	7:55	6.9	7.9	1.4	1.6	1.6
Mid-Ebb	C2	bottom	1.2	M3	8:40	6.9	7.9	1.4	1.6	1.5
Mid-Ebb	C2	bottom	1.2	M4	7:48	6.9	7.9	1.4	1.6	1.6
Mid-Ebb	C2	bottom	1.2	M5	9:07	6.9	7.9	1.4	1.6	<u>1.7</u>
Mid-Flood	C1	surface	1.5	G2	14:51	6.0	6.9	1.7	1.9	<u>2.2</u>
Mid-Flood	C1	surface	1.5	G4	15:31	6.0	6.9	1.7	1.9	<u>2.0</u>
Mid-Flood	C1	bottom	1.2	G1	15:10	6.9	7.9	1.4	1.5	<u>2.0</u>
Mid-Flood	C1	bottom	1.2	G3	15:18	6.9	7.9	1.4	1.5	<u>1.8</u>
Mid-Flood	C1	bottom	1.2	M2	14:45	6.9	7.9	1.4	1.5	1.5
Mid-Flood	C1	bottom	1.2	M3	15:24	6.9	7.9	1.4	1.5	<u>3.3</u>

Note: **Bold** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

21 November 2022

Part A – Exceedance Summary Tables

 Table I:
 Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	3.6	M5	11:01	6.2	7.4	4.3	4.7	<u>5.1</u>
Mid-Ebb	C2	bottom	5.2	G1	10:40	6.9	7.9	6.2	6.7	6.4
Mid-Flood	C1	surface	3.9	M2	16:26	6.2	7.4	4.7	5.1	5.1
Mid-Flood	C1	bottom	3.4	M1	16:37	6.9	7.9	4.0	4.4	<u>4.8</u>
Mid-Flood	C1	bottom	3.4	M3	16:48	6.9	7.9	4.0	4.4	<u>4.8</u>

Note: **Bold** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

21 November 2022

Part A – Exceedance Summary Tables

 Table II:
 Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-flood	C1	1.9	G2	16:32	2.2	2.4	<u>3.9</u>
Bottom	19.3	22.2	Mid-flood	C1	1.9	G3	16:45	2.2	2.4	<u>3.1</u>

Note: **Bold** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

23 November 2022

Part A – Exceedance Summary Tables

 Table I:
 Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	bottom	1.8	G3	11:47	6.9	7.9	2.1	2.3	2.2
Mid-Ebb	C2	bottom	1.8	G4	11:52	6.9	7.9	2.1	2.3	2.2
Mid-Flood	C1	bottom	1.6	G1	16:30	6.9	7.9	1.9	2.1	<u>2.5</u>
Mid-Flood	C1	bottom	1.6	G2	16:23	6.9	7.9	1.9	2.1	<u>2.5</u>
Mid-Flood	C1	bottom	1.6	G4	16:37	6.9	7.9	1.9	2.1	<u>2.2</u>
Mid-Flood	C1	bottom	1.6	M1	16:27	6.9	7.9	1.9	2.1	<u>3.1</u>
Mid-Flood	C1	bottom	1.6	M3	16:34	6.9	7.9	1.9	2.1	<u>2.2</u>
Mid-Flood	C1	bottom	1.6	M5	16:44	6.9	7.9	1.9	2.1	2.1

Note: **Bold** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

23 November 2022

Part A – Exceedance Summary Tables

 Table II:
 Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-flood	C1	1.4	M5	16:44	1.7	1.9	<u>2.0</u>

Note:Bold means Action Level exceedance of Control (Regular) & Baseline (Italic)Bold with underlinemeans Limit Level exceedance of Control (Regular) & Baseline (Italic)

- Notification of Exceedance

Date of Water Quality Monitoring:

25 November 2022

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Flood	C1	surface	1.8	M2	7:52	6.2	7.4	2.1	2.3	2.3
Mid-Flood	C1	bottom	1.2	G1	8:01	6.9	7.9	1.4	1.5	<u>1.7</u>
Mid-Flood	C1	bottom	1.2	G2	7:55	6.9	7.9	1.4	1.5	<u>2.3</u>
Mid-Flood	C1	bottom	1.2	G3	8:04	6.9	7.9	1.4	1.5	<u>2.2</u>
Mid-Flood	C1	bottom	1.2	G4	8:08	6.9	7.9	1.4	1.5	<u>2.2</u>
Mid-Flood	C1	bottom	1.2	M1	7:59	6.9	7.9	1.4	1.5	<u>2.3</u>
Mid-Flood	C1	bottom	1.2	M2	7:52	6.9	7.9	1.4	1.5	1.5
Mid-Flood	C1	bottom	1.2	M3	8:06	6.9	7.9	1.4	1.5	<u>2.5</u>
Mid-Flood	C1	bottom	1.2	M4	7:49	6.9	7.9	1.4	1.5	<u>2.5</u>
Mid-Flood	C1	bottom	1.2	M5	8:16	6.9	7.9	1.4	1.5	<u>2.2</u>

Note:

Bold means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

<u>25 November 2022</u>

Part A – Exceedance Summary Tables

Table II: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-flood	C1	1.5	G2	7:55	1.7	1.9	1.8
Bottom	19.3	22.2	Mid-flood	C1	1.5	G4	8:08	1.7	1.9	1.8
Bottom	19.3	22.2	Mid-flood	C1	1.5	M3	8:06	1.7	1.9	<u>2.0</u>

Note: **Bold** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

28 November 2022

Part A – Exceedance Summary Tables

 Table I:
 Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Ebb	C2	surface	1.7	G2	14:12	6.0	6.9	2.0	2.2	<u>2.7</u>
Mid-Ebb	C2	surface	1.7	M1	14:15	6.2	7.4	2.0	2.2	<u>3.1</u>
Mid-Ebb	C2	surface	1.7	M2	14:07	6.2	7.4	2.0	2.2	<u>2.4</u>
Mid-Flood	C1	bottom	2.2	G3	10:31	6.9	7.9	2.6	2.8	2.7
Mid-Flood	C1	bottom	2.2	M3	10:33	6.9	7.9	2.6	2.8	2.7
Mid-Flood	C1	bottom	2.2	M4	10:13	6.9	7.9	2.6	2.8	2.8

Note: **Bold** means Action Level exceedance of Control (**Regular**) & Baseline (**Italic**)

- Notification of Exceedance

Date of Water Quality Monitoring:

28 November 2022

Part A – Exceedance Summary Tables

 Table II:
 Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-Ebb	C2	3.3	M2	14:07	4.0	4.3	<u>5.1</u>
Bottom	19.3	22.2	Mid-Ebb	C2	3.3	M5	14:36	4.0	4.3	<u>4.9</u>

Note: **Bold** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)

- Notification of Exceedance

Date of Water Quality Monitoring:

30 November 2022

Part A – Exceedance Summary Tables

Table I: Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Tide	Control Station(s)	Depth	Measured Value at Control Station (mg/L)	Station(s)	Time (hrs)	Baseline Action Level (mg/L)	Baseline Limit Level (mg/L)	120% of Control Station Action Level (mg/L)	130% of Control Station Limit Level (mg/L)	Measured Value (mg/L)
Mid-Flood	C1	surface	1.4	G2	15:52	6.0	6.9	1.7	1.8	<u>1.9</u>
Mid-Flood	C1	surface	1.4	G3	16:03	6.0	6.9	1.7	1.8	1.8
Mid-Flood	C1	surface	1.4	G4	16:09	6.0	6.9	1.7	1.8	1.8
Mid-Flood	C1	surface	1.4	M1	15:55	6.2	7.4	1.7	1.8	<u>2.2</u>
Mid-Flood	C1	surface	1.4	M2	15:48	6.2	7.4	1.7	1.8	<u>2.9</u>
Mid-Flood	C1	surface	1.4	M3	16:06	6.2	7.4	1.7	1.8	<u>3.2</u>
Mid-Flood	C1	surface	1.4	M4	15:43	6.2	7.4	1.7	1.8	<u>2.3</u>
Mid-Flood	C1	surface	1.4	M5	16:16	6.2	7.4	1.7	1.8	<u>2.2</u>
Mid-Flood	C1	bottom	1.9	G1	15:59	6.9	7.9	2.2	2.4	<u>2.6</u>
Mid-Flood	C1	bottom	1.9	G3	16:03	6.9	7.9	2.2	2.4	<u>2.9</u>
Mid-Flood	C1	bottom	1.9	G4	16:09	6.9	7.9	2.2	2.4	<u>2.5</u>

Note: **Bold** means Action Level exceedance of Control (**Regular**) & Baseline (**Italic**)

Bold with underline means Limit Level exceedance of Control (**Regular**) & Baseline (**Italic**)

- Notification of Exceedance

Date of Water Quality Monitoring:

<u>30 November 2022</u>

Part A – Exceedance Summary Tables

 Table II:
 Parameter(s) – Dissolved Oxygen (DO) / Turbidity (TURB) / Suspended Solids (SS)

Depth	Baseline Action Level (NTU)	Baseline Limit Level (NTU)	Tide	Control Station(s)	Measured Value at Control Station (NTU)	Station(s)	Time (hrs)	120% of Control Station Action Level (NTU)	130% of Control Station Limit Level (NTU)	Measured Value (NTU)
Bottom	19.3	22.2	Mid-flood	C1	2.8	M2	15:48	3.4	3.7	<u>3.8</u>
Bottom	19.3	22.2	Mid-flood	C1	2.8	M4	15:43	3.4	3.7	<u>5.3</u>

Note:**Bold** means Action Level exceedance of Control (**Regular**) & Baseline (*Italic*)**Bold with underline** means Limit Level exceedance of Control (**Regular**) & Baseline (*Italic*)

Contract No. CE 59/2015 (EP) Environmental Team for Tseung Kwan O – Lam Tin Tunnel Design and Construction

- Investigation Report of Environmental Quality Limit Exceedances

Part A_Details of Investigation

For the reporting month, exceedances for suspended solids and turbidity have been recorded continuously at various monitoring stations. During the site inspection, the water outside the site boundary seemed to be clear and clean (Photos 1, 2 & 3).

During regular water quality monitoring, the sea appears to be clear in general (Photo 4). No obvious muddy water was observed during the monitoring.

Sediment tanks were free from silt and sediments and the drainage system remained well-maintained. No sand plumes were observed during the site inspection.

No direct evidence that the recent exceedances were due to the ongoing reclamation activities of the Project. Therefore, no additional marine water quality monitoring is required.

Contract No. CE 59/2015 (EP) Environmental Team for Tseung Kwan O – Lam Tin Tunnel Design and Construction

- Investigation Report of Environmental Quality Limit Exceedances

Part B_Photo Record



Contract No. CE 59/2015 (EP) Environmental Team for Tseung Kwan O – Lam Tin Tunnel Design and Construction

- Investigation Report of Environmental Quality Limit Exceedances

Part C – Recommendations

Since it is anticipated to have downpours in the coming months, the Contractors are reminded to carry out precautionary measures such as clearing drainage system to ensure the adequate capacity of drainage and ensuring proper embankment had been placed around the site to prevent accidental discharge of muddy water.

Dive inspection shall be conducted regularly to ensure the condition of the silt curtain. Good site practices such as the provision of perimeter cut-off drain to direct off-site water, regular removal of silt and sediment from sediment tanks, and covering open stockpiles shall be conducted as far as possible. Chemicals shall be placed away from the seafront area to prevent accidental leakage.

Reviewed by:

(Environmental Team Leader:(Dr. HF Chan)

Date: 07th December 2022

APPENDIX L SITE AUDIT SUMMARY

Agreement No. CE 59/2015 (EP)

Environmental Team for Tseung Kwan O - Lam Tin Tunnel - Design and Construction Monthly EM&A Report

Appendix L - Site Audit Summary

Contract No. — NE2015/01

Tseung Kwan O - Lam Tin Tunnel — Main Tunnel and Associated Works

Items	Date	Status*	Follow up Action
Water Quality	•		
Construction material was stacked inside drainage system.	30-Nov-22	#	Follow up action will be reported in next reporting month.
Ecology			
-			
Noise			
Landscape and Visual			
Air Quality			
Missing NRMM label was observed on a hydraulic excavator.	26-Oct-22	√	2-Nov-22: NRMM was displayed at a conspicuous position of the excavator.
A stock of more than 20 bags of cement was observed without coverage. The Contractor should provide cover or shelter.	26-Oct-22	√	2-Nov-22: The stockpile of cement was covered.
Waste/Chemical Management			
Chemicals without proper labels and drip tray was observed.	26-Oct-22	~	2-Nov-22: The chemicals was removed.
Chemical and fuel drums should be stored properly or apply drip tray to them.	02-Nov-22	√	9-Nov-22: The chemicals and fuel drums were removed.
Chemical/ fuels without drip tray was observed on ground.	09-Nov-22	✓	16-Nov-22: The chemicals and fuel drums were removed.
Some fuel drums was observed without drip tray.	16-Nov-22	✓	23-Nov-22: The fuel drums were removed.
Accumulation of construction and general waste was observed.	23-Nov-22	~	30-Nov-22: The waste was removed.
Impact on Cultural Heritage			
Permit/Licenses			

✓ Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit

× Observation/reminder was made during site audit but not yet improved/rectified by the contractor in the next site audit

Follow up action will be reported in next reporting month

* Non-compliance of mitigation measure

Appendix L - Site Audit Summary

Contract No. — NE2015/02

Tseung Kwan O - Lam Tin Tunnel — Road P2 and Associated Works

Items	Date	Status*	Follow up Action
Water Quality			
Ecology	•		·
Noise	•		·
Landscape and Visual		-	
Air Quality		-	
Missing and damaged NRMM labels were observed on an excavator and a generator.	10-Nov-22	~	17-Nov-22: NRMM was displayed at a conspicuous position of the PMEs.
A pile of excavated material was observed without appropriate coverage.	10-Nov-22	√	17-Nov-22: The excavated material was removed.
Waste/Chemical Management	-		
Oil leakage was obseved in Portion VIII.	27-Oct-22	~	3-Nov-22: PME was checked and the oil stain was removed.
Chemical/fuels was observed without drip tray in Portion IV.	27-Oct-22	~	3-Nov-22: Chemicals were removed.
Waste accumulation was observed in Portion VII and outside pumping station.	3-Nov-22	~	10-Nov-22: Waste was removed.
Chemical was observed without drip tray.	3-Nov-22	~	10-Nov-22: Chemicals were removed.
Impact on Cultural Heritage	-		· ·
Permit/Licenses	-	-	·

✓ Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit

× Observation/reminder was made during site audit but not yet improved/rectified by the contractor in the next site audit

Follow up action will be reported in next reporting month

* Non-compliance of mitigation measure

Appendix L - Site Audit Summary

Contract No. — NE2017/02

Tseung Kwan O - Lam Tin Tunnel — Road P2/D4 and Associated Works

Items	Date	Status*	Follow up Action
Water Quality			
Ecology			
Noise			
Landscape and Visual			
Air Quality			
Waste/Chemical Management			
Impact on Cultural Heritage			
Permit/Licenses			

✓ Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit

× Observation/reminder was made during site audit but not yet improved/rectified by the contractor in the next site audit

Follow up action will be reported in next reporting month

* Non-compliance of mitigation measure

Appendix L - Site Audit Summary

Contract No. — NE2017/06

Tseung Kwan O - Lam Tin Tunnel — Traffic Control and Surveillance System (TCSS) and Associated Works

Items	Date	Status*	Follow up Action	
Water Quality		000000		
Ecology		•		
Noise			·	
Landscape and Visual			· · · · · · · · · · · · · · · · · · ·	
Air Quality				
Waste/Chemical Management				
Impact on Cultural Heritage				
Permit/Licenses				

✓ Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit

× Observation/reminder was made during site audit but not yet improved/rectified by the contractor in the next site audit

Follow up action will be reported in next reporting month

* Non-compliance of mitigation measure

Appendix L - Site Audit Summary

Contract No. — NE2017/01

Tseung Kwan O - Lam Tin Tunnel — Tseung Kwan O Interchange and Associated Works

Items	Date	Status*	Follow up Action
Water Quality			
Ecology			
Noise			
Landscape and Visual			
Air Quality			
Waste/Chemical Management			
Impact on Cultural Heritage			
Permit/Licenses			

✓ Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit

× Observation/reminder was made during site audit but not yet improved/rectified by the contractor in the next site audit

Follow up action will be reported in next reporting month

* Non-compliance of mitigation measure

Appendix L - Site Audit Summary

Contract No. — NE2017/07

Tseung Kwan O - Lam Tin Tunnel — Cross Bay Link Main Bridge and Associated Works

Items	Date	Status*	Follow up Action
Water Quality		•	
Ecology			
Noise			
Landscape and Visual			
Air Quality			
Waste/Chemical Management			
Impact on Cultural Heritage			
Permit/Licenses			

✓ Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit

× Observation/reminder was made during site audit but not yet improved/rectified by the contractor in the next site audit

Follow up action will be reported in next reporting month

* Non-compliance of mitigation measure

APPENDIX M EVENT AND ACTION PLANS

Event and Action Plan for Air Quality (Dust)

	ACTION								
EVENT	ET	IEC	ER	CONTRACTOR					
Action level being exceeded by one sampling	 Identify source, investigate the causes of complaint and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily. 	 Check monitoring data submitted by ET; Check Contractor's working method. 	1. Notify Contractor.	 Rectify any unacceptable practice; Amend working methods if appropriate. 					
Action level being exceeded by two or more consecutive sampling	 Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Submit proposals for remedial actions to IEC within three working days of notification; Implement the agreed proposals; Amend proposal if appropriate. 					

	ACTION							
EVENT	ET	IEC	ER	CONTRACTOR				
	8. If exceedance stops, cease additional monitoring.							
Limit level being exceeded by one sampling	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform Contractor ,IEC, ER, and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	 Check monitoring data submitted by ET; 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. 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within three working days of notification; Implement the agreed proposals; Amend proposal if appropriate. 				
Limit level being exceeded by two or more consecutive sampling	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 	 Confirm receipt of notification of exceedance in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within three working days of notification; Implement the agreed proposals; 				

	ACTION							
EVENT	ЕТ		IEC		ER	CONTRACTOR		
	5.	Carry out analysis of Contractor's	3. Supervise the implementation of	4.	Ensure remedial measures	4. Resubmit proposals if problem still		
		working procedures to determine	remedial measures.		properly implemented;	not under control;		
		possible mitigation to be		5.	If exceedance continues, consider	5. Stop the relevant portion of works		
		implemented;			what portion of the work is	as determined by the ER until the		
	6.	Arrange meeting with IEC and			responsible and instruct the	exceedance is abated.		
		ER to discuss the remedial actions			Contractor to stop that portion of			
		to be taken;			work until the exceedance is			
	7.	Assess effectiveness of			abated.			
		Contractor's remedial actions and						
		keep IEC, EPD and ER informed						
		of the results;						
	8.	If exceedance stops, cease						
		additional monitoring.						

Event and Action Plan for Construction Noise

EVENT		ACTION									
	ЕТ	IEC	ER	CONTRACTOR							
Action	1. Notify IEC and Contractor;	1. Review the analysed results	1. Confirm receipt of notification of	1. Submit noise mitigation proposals to							
Level	2. Carry out investigation;	submitted by the ET;	failure in writing;	IEC;							
	3. Report the results of investigation to	2. Review the proposed remedial	2. Notify Contractor;	2. Implement noise mitigation proposals.							
	the IEC, ER and Contractor;	measures by the Contractor and	3. Require Contractor to propose								
	4. Discuss with the Contractor and	advise the ER accordingly;	remedial measures for the analysed								
	formulate remedial measures;	3. Supervise the implementation of	noise problem;								
	5. Increase monitoring frequency to	remedial measures.	4. Ensure remedial measures are								
	check mitigation effectiveness.		properly implemented.								
Limit	1. Identify source;	1. Discuss amongst ER, ET, and	1. Confirm receipt of notification of	1. Take immediate action to avoid							
Level	2. Inform IEC, ER, EPD and	Contractor on the potential remedial	failure in writing;	further exceedance;							
	Contractor;	actions;	2. Notify Contractor;	2. Submit proposals for remedial							
	3. Repeat measurements to confirm	2. Review Contractors remedial actions	3. Require Contractor to propose	actions to IEC within 3 working							
	findings;	whenever necessary to assure their	remedial measures for the analysed	days of notification;							
	4. Increase monitoring frequency;	effectiveness and advise the ER	noise problem;	3. Implement the agreed proposals;							
	5. Carry out analysis of Contractor's	accordingly;	4. Ensure remedial measures properly	4. Resubmit proposals if problem still							
	working procedures to determine	3. Supervise the implementation of	implemented;	not under control;							
	possible mitigation to be	remedial measures.	5. If exceedance continues, consider	5. Stop the relevant portion of works as							
	implemented;		what portion of the work is	determined by the ER until the							
	6. Inform IEC, ER and EPD the causes		responsible and instruct the	exceedance is abated.							
	and actions taken for the		Contractor to stop that portion of								
	exceedances;		work until the exceedance is abated.								

EVENT	ACTION							
	ЕТ	IEC	ER	CONTRACTOR				
	7. Assess effectiveness of Contractor's							
	remedial actions and keep IEC, EPD							
	and ER informed of the results;							
	8. If exceedance stops, cease additional							
	monitoring.							

Event and Action Plan for Marine Water Quality

	Action						
Event	ET	IEC	ER	CONTRACTOR			
Action level being exceeded by one sampling day at water sensitive receiver(s)	 Identify the source(s) of impact by comparing the results with those collected at the control stations as appropriate; If exceedance is found to be caused by the reclamation activities, repeat <i>in-situ</i> measurement to confirm findings; Inform IEC and contractor; Check monitoring data, all plant, equipment and Contractor's working methods; If exceedance occurs at WSD salt water intake, inform WSD; Discuss mitigation measures with IEC and Contractor; Repeat measurement on next day of 	 Discuss with ET and Contractor on the mitigation measures; Review proposal on mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. 	 Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation proposal. 	 Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Amend working methods if appropriate; Discuss with ET and IEC and propose mitigation measures to IEC and ER; Implement the agree mitigation measures. 			
	exceedance.						
Action level being	• Identify the source(s) of impact by	• Discuss with ET and Contractor on	• Discuss with IEC on the proposed	• Inform the Engineer and confirm			
exceeded by two or	comparing the results with those collected at the control stations as	the mitigation measures;	mitigation measures;Make agreement on the mitigation	notification of the non-compliance in writing;			
more consecutive	appropriate;		proposal;	• Rectify unacceptable practice;			

	Action						
Event	ET	IEC	ER	CONTRACTOR			
sampling days at	• If exceedance is found to be caused	Review proposal on mitigation	• Assess the effectiveness of the	• Check all plant and equipment and			
water sensitive	by the reclamation activities, repeat	measures submitted by Contractor	implemented mitigation measures.	consider changes of working			
receiver(s)	in-situ measurement to confirm	and advise the ER accordingly;		methods;			
	findings;	• Assess the effectiveness of the		• Discuss with ET, IEC and ER and			
	• Inform IEC and contractor;	implemented mitigation measures.		propose mitigation measures to IEC			
	• Check monitoring data, all plant,			and ER within 3 working days;			
	equipment and Contractor's working			• Implement the agreed mitigation			
	methods;			measures.			
	• Discuss mitigation measures with						
	IEC and Contractor;						
	• Ensure mitigation measures are						
	implemented;						
	• Prepare to increase the monitoring						
	frequency to daily;						
	• If exceedance occurs at WSD salt						
	water intake, inform WSD;						
	• Repeat measurement on next day of						
	exceedance.						
Limit level being	• Identify the source(s) of impact by	• Discuss with ET and Contractor on	• Discuss with IEC, ET and	• Inform the ER and confirm			
exceeded by one	comparing the results with those	the mitigation measures;	Contractor on the proposed	notification of the non-compliance in			
sampling day at	collected at the control stations as	Review proposal on mitigation	mitigation measures;	writing;			
water sensitive	appropriate;	measures submitted by Contractor	Request Contractor to critically	• Rectify unacceptable practice;			
receiver(s)		and advise the ER accordingly;	review the working methods;				

	Action						
Event	ET	IEC	ER	CONTRACTOR			
	• If exceedance is found to be caused	• Assess the effectiveness of the	• Make agreement on the mitigation	• Check all plant and equipment and			
	by the reclamation activities,	implemented mitigation measures.	measures to be implemented;	consider changes of working			
	repeat in-situ measurement to		• Assess the effectiveness of the	methods;			
	confirm findings;		implemented mitigation measures.	• Discuss with ET, IEC and ER and			
	• Inform IEC, contractor, AFCD and			submit proposal of mitigation			
	EPD			measures to IEC and ER within 3			
	• Check monitoring data, all plant,			working days of notification;			
	equipment and Contractor's working			• Implement the agreed mitigation			
	methods;			measures.			
	• Discuss mitigation measures with						
	IEC, ER and Contractor;						
	• Ensure mitigation measures are						
	implemented;						
	• Increase the monitoring frequency						
	to daily until no exceedance of Limit						
	level;						
	• If exceedance occurs at WSD salt						
	water intake, inform WSD.						
Limit level being	• Identify the source(s) of impact by	• Discuss with ET and Contractor on	• Discuss with IC(E), ET and	• Inform the ER and confirm			
exceeded by two	comparing the results with those	the mitigation measures;	Contractor on the proposed	notification of the non-compliance in			
or more	collected at the control stations as	Review proposal on mitigation	mitigation measures;	writing;			
consecutive	appropriate;	measures submitted by Contractor	• Request Contractor to critically	• Rectify unacceptable practice;			
sampling days at		and advise the ER accordingly;	review the working methods;				

		Ac	tion	
Event	ET	IEC	ER	CONTRACTOR
water sensitive	• If exceedance is found to be caused	Assess the effectiveness of the	• Make agreement on the mitigation	• Check all plant and equipment and
receiver(s)	by the reclamation activities, repeat	implemented mitigation measures.	measures to be implemented;	consider changes of working
	in-situ measurement to confirm		• Assess the effectiveness of the	methods;
	findings;		implemented mitigation measures;	• Discuss with ET, IC(E) and ER and
	• Inform IC(E), AFCD, contractor		• Consider and instruct, if necessary,	submit proposal of mitigation
	and EPD;		the Contractor to slow down or to	measures to IC(E) and ER within 3
	• Check monitoring data, all plant,		stop all or part of the marine work	working days of notification;
	equipment and Contractor's working		until no exceedance of Limit level.	• Implement the agreed mitigation
	methods;			measures;
	• Discuss mitigation measures with			• As directed by the Engineer, to
	IC(E), ER and Contractor;			slow down or to stop all or part of
	• Ensure mitigation measures are			the construction activities.
	implemented;			
	• Increase the monitoring frequency			
	to daily until no exceedance of Limit			
	level for two consecutive days;			
	• If exceedance occurs at WSD salt			
	water intake, inform WSD.			

Limit Levels and Action Plan for Landfill Gas

Parameter	Limit Level	Action
Oxygen	<19%	• Ventilate to restore oxygen to >19%
	<18%	Stop works
		• Evacuate personnel/prohibit entry
		• Increase ventilation to restore oxygen to >19%
Methane	>10% LEL (i.e.	Prohibit hot works
	> 0.5% by	• Ventilate to restore methane to <10% LEL
	volume)	
	>20% LEL (i.e.	Stop works
	>1% by	• Evacuate personnel / prohibit entry
	volume)	• Increase ventilation to restore methane to <10%
		LEL
Carbon	>0.5%	• Ventilate to restore carbon dioxide to < 0.5%
Dioxide	>1.5%	Stop works
		• Evacuate personnel / prohibit entry
		• Increase ventilation to restore carbon dioxide to <
		0.5%

Event	Action						
	ET Leader	IEC	ER	Contractor			
Action	1. Check monitoring data;	1.Discuss monitoring with the ET	1. Discuss with the IEC additional	1. Inform the ER and confirm			
Level		and the Contractor;	monitoring	notification of the non-compliance			
Exceedance	2. Inform the IEC, ER and		requirements and any other	in writing;			
	Contractor of the findings;	2. Review proposals for additional	measures proposed by the ET;				
		Monitoring and any other		2. Discuss with the ET and the IEC			
	3. Increase the monitoring to at	measures submitted by the	2. Make agreement on the	and propose measures to the IEC			
	least once a month to confirm	Contractor and advise the ER	measures to be implemented.	and the ER;			
	findings;	accordingly.					
				3. Implement the agreed measures.			
	4. Propose mitigation						
	measures for consideration						
Limit Level	Undertake Steps 1-4 as in the	1.Discuss monitoring with the ET	1. Discuss with the IEC additional	1. Inform the ER and confirm			
Exceedance	Action Level Exceedance. If	and the Contractor;	monitoring	notification of the non-compliance			
	further exceedance of Limit Level,		requirements and any other	in writing;			
	suspend construction works until	2. Review proposals for additional	measures proposed by the ET;				
	an effective solution is identified.	Monitoring and any other		2. Discuss with the ET and the IEC			
		measures submitted by the	2. Make agreement on the	and propose measures to the IEC			
		Contractor and advise the ER	measures to be implemented.	and the ER;			
		accordingly.	-				
				3. Implement the agreed measures.			

Event and Action Plan for Coral Post-Translocation Monitoring

Mitigation Measures for Vibration Monitoring

Level	Contingency Action
Alert Level	• The Engineer shall be informed immediately.
	• The Contractor shall submit an investigation report to describe works being undertaken. To review the instrument responses and to study the cause of undue response.
	• The Contractor shall review and increase the instrumentation monitoring and reporting frequency, if applicable.
	• The Contractor shall submit a detailed plan of action describing the measures to be taken should the concerned instrument reach the action level to the Engineer for approval.
Alarm Level	• The Engineer shall be informed immediately.
	• The active construction works may require to be suspended subject to the Engineer's review of monitoring data.
	• The Contractor shall immediately implement the measures as defined in the detailed plan of action to prevent further ground movement and groundwater drawdown etc.
	• The Contractor shall prepare a detailed investigation report to study the cause of the exceedance
	• The Contractor shall propose a contingency plan for the Engineer's approval in the event that alarm value is reached or exceeded
	• The Contractor shall develop an emergency plan for the Engineer's approval in the event the applied contingency measures cannot control the situation.
	• The Contractor shall meet the Engineer to discuss the instrument response and review the effectiveness of the implemented measures.
	• The Contractor shall carry out design review of the works

Action Level	•	Consideration shall be given to suspend all active construction works and the Engineer shall be informed immediately
	•	The Contractor shall immediately implement the measures defined in the contingency plan
	•	The Contractor shall implement the measures defined in the emergency plan in the event that the applied contingency measures are found inadequate
	•	The Contractor shall provide a complete report to examine the construction method and review the response of the instruments with full history of the monitoring data and construction activities and necessary design update
	•	To resume the suspended activities, the Contractor shall demonstrate to the Engineer's satisfaction that it is safe to do so with approval from the Engineer.

APPENDIX N ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

App N1 - IMPLEMENTATION SCHEDULE AND RECOMMANDED MITIGATION MEASURES

Table I - Recommended Mitigation Measures stipulated in EM&A Manual for the Project

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
Air Quality						
S3.8.1	Watering eight times a day on active works areas, exposed areas and paved haul roads	To minimize the dust impact	Contractor	All Active Work Sites	Construction phase	APCO
\$3.8.1	Enclosing the unloading process at barging point by a 3-sided screen with top tipping hall / mixing area in Work Area A, provision of water spraying and flexible dust curtains	To minimize the dust impact	Contractor	Barging Points	Construction phase	APCO
\$3.8.7	Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides.					
\$3.8.7	 Use of frequent watering for particularly dusty construction areas and areas close to ASRs 					
\$3.8.7	 Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines. 					
\$3.8.7	 Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs. 					
\$3.8.7	 Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. 					
\$3.8.7	 Establishment and use of vehicle wheel and body washing facilities at the exit points of the site. 					
\$3.8.7	 Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading area of barging point, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods. 	To minimize the dust impact	Contractor	All Construction Work Sites	Construction phase	APCO and Air Pollution Control (Construction Dust) Regulation
S 3.8.7	 Provision of not less than 2.4m high hoarding from ground level along site boundary where adjoins a road, streets or other accessible to the public except for a site entrance or exit. 					
\$3.8.7	 Imposition of speed controls for vehicles on site haul roads. 					
\$3.8.7	 Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs 					
S 3.8.7	 Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides. 					
\$3.8.7	 Instigation of an environmental monitoring and auditing program to monitor the construction process in order to enforce controls and modify method of work if dusty conditions arise. 					
	Emission from Vehicles and Plants					
/	 All vehicles shall be shut down in intermittent use. Only well-maintained plant should be operated on-site and plant should be serviced regularly to avoid emission of black smoke. All diesel fuelled construction plant within the works areas shall be powered by ultra low subhur diesel fuel (ULSD) 	Reduce air pollution emission from construction vehicles and plants	Contractor	All construction sites	Construction stage	АРСО

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
/	Valid No-road Mobile Machinery (NRMM) labels should be provided to regulated machines	Reduce air pollution emission from construction vehicles and plants	Contractor	All construction sites	Construction stage	АРСО
Noise Impact (Const	ruction Phase)		-	-	-	
S4.8	 Use of quiet PME. Use of movable noise barriers for Excavator, Lorry, Dump Truck, Mobile Crane, Compactor, Concrete Mixer Truck, Concrete Lorry Mixer, Breaker, Mobile Crusher, Backhoe, Vibratory Poker, Saw, Asphalt Paver, Vibratory Roller, Vibrolance, Hydraulic Vibratory Lance and Piling (Vibration Hammer). Use of full enclosure for Air Compressor, Compressor, Bar Bender, Generator, Drilling Rig, Chisel, Large Diameter Bore Piling, Grout Mixer & Pump and Concrete Pump. 	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work Sites	Construction phase	EIAO-TM, NCO
Noise Mitigation Plan	Use of Temporary Noise Barriers (i.e Acoustic box, SilentUp and etc.) or Full Enclosure for PME according to the approved Noise Mitigation Plan	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work Sites	Construction phase	EIAO-TM, NCO
S4.9	Good Site Practice					
S4.9	 Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program 					
S4.9	 Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program. 					
S4.9	 Mobile plant, if any, should be sited as far away from NSRs as possible. 	To minimize construction noise impact arising from the Project at the affected NSRs	Project Proponent	Work sites	Construction Period	EIAO-TM, NCO
S4.9	 Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum. 					
S4.9	 Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. 					
S4.9	 Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities. 					
S4.9	Scheduling of Construction Works during School Examination Period	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work site near school	Construction phase	EIAO-TM, NCO
Water Quality Impa	ct (Construction Phase)					
\$5.6.24	The dry density of filling material for the TKO-LT Tunnel reclamation should be 1,900kg/m ³ , with fine content of 25% or less	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
S5.8.1	Non-dredged method by constructing steel cellular caisson structure with stone column shall be adopted for construction of seawall foundation. During the stone column installation (also including the installation of steel cellular caisson), silt curtain shall be employed around the active stone column installation points.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
\$5.8.2	Formation of seawall enclosing the reclamation for Road P2 (notwithstanding an opening of about 50m for marine access) shall be completed prior to the filling activities. The seawall opening of about 50m wide for marine access shall be selected at a location as indicatively shown in Appendix 5.10. No more than 3 filling barge trips per day shall be made with a maximum daily rate of 3,000m ³ (i.e. 1,000 m ³ per trip) for the filling operation at the reclamation area for Road P2. All filling works shall be carried out behind the seawall with the use of single silt curtain at the marine access.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
Silt Curtain Deployment Plan Silt Curtain Deployment Plan Silt Curtain Deployment Plan	 Silt curtains should be deployed properly to surround the works area. Maintenance of silt curtain should be provided. Sufficient stock of silt curtain should be provided on site. 	Control potential impacts from marine woroks	Contractor	NE/2015/01	Construction stage	EIAO
S5.8.3 S5.8.3	 Other good site practices should be undertaken during filling operations include: all marine works should adopt the environmental friendly construction methods as far as practically possible including the use of cofferdams to cover the construction area to separate the construction works from the sea; floating single silt curtain shall be employed for all marine works; all vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; all hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; excess material shall be cleaned from the decks and exposed fittings of barges before the vessel is moved; adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; loading of barges and hoppers should be controlled to prevent splashing of filling material into the surrounding water. Barges or hoppers should not be filed to a level that will cause the overflow of materials or polluted water during loading or transportation; any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes; construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds; and before commencement of the reclamation works, the holder of Environmental Permit has to submit plans showing the phased construction of the reclamation, design and operation of the silt curtain. 	Control potential impacts from filling activities and marine-based construction	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, Waste Disposal Ordinance (WDO)
S5.8.4	Site specific mitigation plan for reclamation areas using public fill materials should be submitted for EPD agreement before commencement of construction phase with due consideration of good site practices.	Control potential impacts from filling activities and marine based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
ERR S5.6.1	To minimize water quality impact arising from the dredging and filling works for Reclamation for Road P2, the following mitigation measures shall be implemented: - Before carrying out any dredging and underwater filling works, a temporary barrier					
ERR S5.6.1	shall first be constructed to a height above the high water mark to completely enclose the works site (without any opening at the barrier wall)					
ERR S5.6.1	 The temporary barrier fully enclosing the dredging and underwater filling works site shall not be removed before completion of all dredging and underwater filling works. 	Control potential impacts from dredging and filling works for Reclamation for Road P2	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
ERR \$5.6.1	 Water quality sampling and testing shall be carried out to demonstrate that the water quality inside the enclosed barrier is comparable to the ambient or baseline levels prior to the removal of the fully enclosed barrier. Silt curtains shall be deployed for the installation and removal of the temporary barrier 					
ERR \$5.6.1	and at the double water gates marine access opening during its operation.					
S5.8.5	It is important that appropriate measures are implemented to control runoff and drainage and prevent high loading of SS from entering the marine environment. Proper site management is essential to minimise surface water runoff, soil erosion and sewage effluents.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.6	Any practical options for the diversion and realignment of drainage should comply with both engineering and environmental requirements in order to ensure adequate hydraulic capacity of all drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, TM- DSS
S5.8.7	Construction site runoff and drainage should be prevented or minimised in accordance with the guidelines stipulated in the EPD's Practice Note for Professional Persons, Construction Site Drainage (ProPECC PN 1/94). Good housekeeping and stormwater best management practices, as detailed in below, should be implemented to ensure that all construction runoff comples with WPCO standards and no unacceptable impact on the WSRs arises due to construction of the TKO-LT Tunnel. All discharges from the construction site should be controlled to comply with the standards for effluents discharge into the corresponding WCZ under the TM-DSS.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, TM- DSS
S5.8.8	Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include:	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.8	 use of sediment traps; and 	runon and land-based construction				
\$5.8.8	adequate maintenance of drainage systems to prevent flooding and overflow.					
S5.8.9	Construction site should be provided with adequately designed perimeter channel and pretreatment facilities and proper maintenance. The boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilitate runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S5.8.10	Ideally, construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed earth areas should be completed as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.11	Sedimentation tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8m ³ capacity, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity is flexible and able to handle multiple inputs from a variety of sources and particularly suited to applications where the influent is pumped.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.12	Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.13	Measures should be taken to minimize the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.14	Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50m ³ should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.15	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.16	Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecast, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.17	Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.18	All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and located wheel washing bay should be provided at every site exit, and washwater should have sand and sits tetted out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheelwash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

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S5.8.19	Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.20	It is recommended that on-site drainage system should be installed prior to the commencement of other construction activities. Sediment traps should be installed in order to minimise the sediment loading of the effluent prior to discharge into foul sewers. There shall be no direct discharge of effluent from the site into the sea.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.21	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment control measures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage should be reinstated to its original condition when the construction work has finished or the temporary diversion is no longer required.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
	All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.23	Minimum distances of 100m shall be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes during construction and operational phases	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, TMDSS
\$5.8.24	Under normal circumstances, groundwater pumped out of wells, etc. for the lowering of ground water level in basement or foundation construction, and groundwater seepage pumped out of tunnels or caverns under construction should be discharged into storm drains after the removal of silt in silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.25 - S5.8.27 & Table 5.18	Grouting would be adopted as measure to reduce the groundwater inflow into the tunnel. During the tunnel excavation, the inflow rate of groundwater into the tunnel will be measured during the excavation. The groundwater levels above the tunnel will also be monitored by piezometers. If the inflow rate exceeds the pre-determined groundwater control criteria or the groundwater drawdown exceeds the required limit, pre-excavation grouting will be required to reduce the groundwater inflow. No significant change of groundwater levels would therefore be expected. Any chemicals/ foaming agents which would be entrained to the groundwater should be biodegradable and non-toxic throughout the tunnel construction. Potential groundwater quality impact would be minimal as the used material is non-toxic and biodegradable. No adverse groundwater quality would therefore be expected. Prescriptive measures in the form of an Action Plan with pre-emptive and re-active to preserve the groundwater levels at all times during the tunnel construction are set out in Table 5.18.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, Buildings Ordinance
\$5.8.28	Water used in ground boring and drilling for site investigation or rock / soil anchoring should as far as practicable be recirculated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phas	ProPECC PN 1/94, EIAOTM, WPCO

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S5.8.29 - S5.8.31	Wastewater generated from the washing down of mixing trucks and drum mixers and similar equipment should whenever practicable be recycled. The discharge of wastewater should be kept to a minimum. To prevent pollution from wastewater overflow, the pump sump of any water recycling system should be provided with an online standby pump of adequate capacity and with automatic alternating devices. Under normal circumstances, surplus wastewater may be discharged into foul sewers after treatment in silt removal and pH adjustment facilities (to within the pH range of 6 to 10). Disposal of wastewater into storm drains will require more elaborate treatment.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.32	All vehicles and plant should be cleaned before they leave a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. A wheel washing bay should be provided at every site exit if practicable and wash-water should have sand and silt settled out or removed before discharging into storm drains. The section of construction road between the wheel washing bay and the public road should be paved with backfall to reduce vehicle tracking of soil and to prevent site run- off from entering public road drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.33	Bentonite slurries used in diaphragm wall and borepile construction should be reconditioned and reused wherever practicable. If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.34	If the used bentonite slurry is intended to be disposed of through the public drainage system, it should be treated to the respective effluent standards applicable to foul sewer, storm drains or the receiving waters as set out in the WPCO Technical Memorandum on Effluent Standards.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.35	Water used in water testing to check leakage of structures and pipes should be reused for other purposes as far as practicable. Surplus unpolluted water could be discharged into storm drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.36	Sterilization is commonly accomplished by chlorination. Specific advice from EPD should be sought during the design stage of the works with regard to the disposal of the sterilizing water. The sterilizing water should be reused wherever practicable.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.37	Before commencing any demolition works, all sewer and drainage connections should be sealed to prevent building debris, soil, sand etc. from entering public sewers/drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.38	Wastewater generated from building construction activities including concreting, plastering, internal decoration, cleaning of works and similar activities should not be discharged into the stormwater drainage system. If the wastewater is to be discharged into foul sewers, it should undergo the removal of settleable solids in a silt removal facility, and pH adjustment as necessary	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.39	Acidic wastewater generated from acid cleaning, etching, pickling and similar activities should be neutralized to within the pH range of 6 to 10 before discharging into foul sewers. If there is no public foul sewer in the vicinity, the neutralized wastewater should be tinkered off site for disposal into foul sewers or treated to a standard acceptable to storm drains and the receiving waters	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.40	Wastewater collected from canteen kitchens, including that from basins, sinks and floor drains, should be discharged into foul sewer via grease traps capable of providing at least 20 minutes retention during peak flow.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.41	Drainage serving an open oil filling point should be connected to storm drains via a petrol interceptor with peak storm bypass.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

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S5.8.42	Vehicle and plant servicing areas, vehicle wash bays and lubrication bays should as far as possible be located within roofed areas. The drainage in these covered areas should be connected to foul sewers via a petrol interceptor. Oil leakage or spillage should be contained and cleaned up immediately. Waste oil should be collected and stored for recycling or disposal in accordance with the Waste Disposal Ordinance.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.43	Construction work force sewage discharges on site are expected to be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage may need to be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.44	Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction 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.	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, WDO
\$5.8.45	Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
S5.8.46	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The "Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes" published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows:					
S5.8.46	 suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport; 	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, WDO
S5.8.46	 chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents; and 					
S5.8.46	 storage area should be selected at a safe location on site and adequate space should be allocated to the storage area. 					
S5.8.47	Collection and removal of floating refuse should be performed at regular intervals on a daily basis. The contractor should be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish.	Control potential impacts from floating refuse and debris	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO,

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Ecological Impact						
S6.8.4	Measures to Minimize Disturbance					
\$6.8.4	 Use of Quiet Mechanical Plant during the construction phase should be adopted wherever possible. 					
S6.8.4	 Hoarding or fencing should be erected around the works area boundaries during the construction phase. The hoarding would screen adjacent habitats from construction phase activities, reduce noise disturbance to these habitats and also to restrict access to habitats adjacent to works areas by site workers; 	Minimize noise, human and traffic disturbance to terrestrial habitat and wildlife; and reduce dust generation	Design Team / Contractor	Land-based works are	Construction Phase	N/A
S6.8.4	 Regular spraying of haul roads to minimize impacts of dust deposition on adjacent vegetation and habitats during the construction activities 					
S6.8.5	Standard Good Site Practice					
\$6.8.5	 Placement of equipment or stockpile in designated works areas and access routes selected on existing disturbed land to minimise disturbance to natural habitats. 					
\$6.8.5	 Construction activities should be restricted to works areas that should be clearly demarcated. The works areas should be reinstated after completion of the works. 					
\$6.8.5	 Waste skips should be provided to collect general refuse and construction wastes. The wastes should be properly disposed off-site in a timely manner. 	Reduce disturbance to surrounding habitats	Contractor	Land-based works are	Construction Phase	N/A
\$6.8.5	 General drainage arrangements should include sediment and oil traps to collect and control construction site run-off. 					
S6.8.5	Open burning on works sites is illegal, and should be strictly prohibited.					
\$6.8.5	 Measures should also be put into place so that litter, fuel and solvents do not enter the nearby watercourses. 					
\$6.8.6	Measure to Minimize Groundwater Inflow					
\$6.8.6	 The drained tunnel construction method with groundwater inflow control measures would generally be adopted. 	Minimize groundwater inflow	Contractor	Tunnel	Construction Phase	N/A
S6.8.6	 During the tunnel excavation, pre-excavation grouting could be adopted to reduce the groundwater inflow and ensure that the tunnel would meet the long term water tightness requirements. 					

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S6.8.8	Measure to Minimize Impact on Corals						
S6.8.8	Coral translocation						
S6.8.8	 It is recommended to translocate the affected coral colonies, except the locally common Oulastrea crispata, within the reclamation area and bridge footprint to the other suitable locations as far as practicable. 						
\$6.8.8	• The coral translocation should be conducted during the winter months (November-March) in order to avoid disturbance during their spawning period (i.e. July to October).				Prior construction		
S6.8.8	 A detailed coral translocation plan with a description on the methodology for pretranslocation coral survey, translocation methodology, identification/proposal of coral recipient site, monitoring methodology for posttranslocation should be prepared during the detailed design stage. 		Design team, contractor, project operator	Within reclamation areas and pier footprint			
S6.8.8	 The coral translocation plan should be subject to approval by relevant authorities (e.g. EPD and AFCD) before commencement of the coral translocation. All the translocation exercises should be conducted by experienced marine ecologist(s) who is/are approved by AFCD prior to commencement of coral translocation. 	Minimize loss of coral				N/A	
\$6.8.8	Post translocation Monitoring						
\$6.8.8	 A coral monitoring programme is recommended to assess any adverse and unacceptable impacts to the translocated coral communities 						
S6.8.8	 Information gathered during each posttranslocation monitoring survey should include observations on the presence, survival, health condition and growth of the translocated coral colonies. These parameters should then be compared with the baseline results collected from the pre-translocation survey. 						
S6.8.9 S6.8.10	 Measure to Control Water Quality Impact Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area. Diverting of the site runoff to silt trap facilities before discharging into storm drain; Proper waste and dumping management; and Standard good-site practice for land-based construction. 	Control water quality impact, especially on suspended solid level; minimize the contamination of wastewater discharge, accidental chemical spillage and construction site runoff to the receiving water bodies	Design Team, contractor	Marine and landbased works area	Construction phase	WQO	
S6.8.11	Compensation for Vegetation Loss Felling of mature trees should be compensated by planting of standard or heavy standard trees within or in vicinity of the affected area as far as practicable. Such compensatory planting for trees should be provided with at least a 1:1 ratio. In addition, vegetation at the temporarily affected area should be reinstated with species similar to the existing condition. 	Compensate for the vegetation loss	Design Team, contractor	Land-based works area	Construction phase	N/A	

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Fisheries Impact						
\$7.7.3	Measure to Control Water Quality Impact Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area. 	Control water quality impact, especially on suspended solid level	Design Team / Contractor	Marine work area	Construction phase	WQO
Waste Management	(Construction Phase)					
	Good Site Practices and Waste Reduction Measures					
	 Nomination of an approved person, such as a 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; Training of site personnel in site cleanliness, proper waste management and chemical 		Contractor	All work sites		Waste Disposal Ordinance (Cap. 354)
S8.6.3	 handling procedures; Provision of sufficient waste disposal points and regular collection of waste; Appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; and Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors. 	To reduce waste management impacts			Construction Phase	Land (Miscellaneous Provisions) Ordinance (Cap. 28)
	Good Site Practices and Waste Reduction Measures (con't)					
S8.6.4	 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; Encourage collection of aluminium cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the workforce; Proper storage and site practices to minimize the potential for damage or contamination of construction materials; and Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste. 	To achieve waste reduction	Contractor	All work sites	Construction Phase	Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28)
	Good Site Practices and Waste Reduction Measures (con't)					
\$8.6.5	The Contractor shall prepare and implement a WMP as part of the EMP in accordance with ETWB TCW No. 19/2005 which describes the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and disposal of different categories of waste to be generated from the construction activities. Such a management plan should incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval. The Contractor should implement the waste management practices in the EMP throughout the construction stage of the Project. The EMP should be reviewed regularly and updated by the Contractor.	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
S8.6.6	 Good Site Practices and Waste Reduction Measures (con't) C&D materials would be reused in the project and other local concurrent projects as far as possible. 	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Who to implement the measures?		Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?	
	 Storage, Collection and Transportation of Waste Should any temporary storage or stockpiling of waste is required, recommendations to minimize the impacts include: Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimizing the potential of pollution; 	To minimize potential adverse environmental	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005	
\$8.6.7 \$8.6.7 \$8.6.7	 Maintain and clean storage areas routinely; Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; and Different locations should be designated to stockpile each material to enhance reuse. 	impacts arising from waste storage	Connactor		Constitution r nase		
S8.6.8/ Waste Management Plan S8.6.8/ Waste Management Plan S8.6.8/ Waste Management Plan S8.6.8/ Waste Management Plan S8.6.8/ Waste Management Plan S8.6.8/ Waste Management Plan S8.6.8/ Waste Management Plan	 Storage, Collection and Transportation of Waste (con't) Remove waste in timely manner; Waste collectors should only collect wastes prescribed by their permits; Impacts during transportation, such as dust and odour, should be mitigated by the use of covered trucks or in enclosed containers; Obtain relevant waste disposal permits from the appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap. 354), Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap. 345) and the Land (Miscellaneous Provisions) Ordinance (Cap. 28); Waste should be disposed of at licensed waste disposal facilities/ alternative disposal ground approved by RE and DEP; and Maintain records of quantities of waste generated, recycled and disposed. 	To minimize potential adverse environmental impacts arising from waste collection and disposal	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005	
S8.6.9/ Waste Management Plan	 Storage, Collection and Transportation of Waste (con't) Implementation of trip ticket system with reference to DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials, to monitor disposal of waste and to control fly-tipping at PFRFs or landfills. A recording system for the amount of waste generated, recycled and disposed (including disposal sites) should be proposed. 	To minimize potential adverse environmental impacts arising from waste collection and disposal	Contractor	All work sites	Construction Phase	DEVB TCW No. 6/2010	
S8.6.11 - S8.6.13/ Waste Management Plan S8.6.11 - S8.6.13/ Waste Management Plan S8.6.11 - S8.6.13/ Waste Management Plan S8.6.11 - S8.6.13/ Waste Management Plan	 Sorting of C&D Materials Sorting to be performed to recover the inert materials, reusable and recyclable materials before disposal off-site. Specific areas shall be provided by the Contractors for sorting and to provide temporary storage areas for the sorted materials. The C&D materials should at least be segregated into inert and non-inert materials, in which the inert portion could be reused and recycled in the reclamation as far as practicable before delivery to PFRFs. While opportunities for reusing the non-inert portion should be investigated before disposal of at designated landfills 	To minimize potential adverse environmental	Contractor	All work sites	Construction Phase	DEVB TCW No. 6/2010 ETWB TCW No. 33/2002 ETWB TCW No. 19/2005	

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?	
S8.6.17 - S8.6.20	Sediments (con't)						
S8.6.17 – S8.6.20	 Requirements of the Air Pollution Control (Construction Dust) Regulation, where relevant, shall be adhered to during boring, excavation, transportation and disposal of sediments or cement stabilization of sediment. 						
S8.6.17 – S8.6.20	 A treatment area should be confined for carrying out the cement stabilization mixing and temporary stockpile. The area should be designed to prevent leachate from entering the ground. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO). 	To determine the best handling and treatment of	Contention	All works areas with	Construction Disco	FTWD TOWN, 10/2005	
	 In order to minimise the potential odour / dust emissions during boring, excavation and transportation of the sediment, the excavated sediments should be kept wet during 	sediment	Contractor	sediments concern	Construction Phase	ETWB TCW No. 19/2005	
\$8.6.17 - \$8.6.20	excavation/boring and should be properly covered when placed on barges/trucks. Loading of the excavated sediment to the barge should be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water.						
S8.6.17 – S8.6.20	 In order to minimise the exposure to contaminated materials, workers should, when necessary, wear appropriate personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities should also be provided on site. 						
	Sediments (con't)						
S8.6.24 - S8.6.28/ Waste Management Plan	 The excavated sediments is expected to be loaded onto the barge and transported to the designated disposal sites allocated by the MFC. The excaveted sediment would be disposed of according to its determined disposal options and ETWB TC(W) No. 34/2002. Stockpiling of contaminated sediments should be avoided as far as possible. If temporary stockpiling of contaminated sediments is necessary, the excavated sediment should be covered by tarpaulin and the area should be placed within earth bunds or sand bags to 						
S8.6.24 - S8.6.28/Waste Management Plan	prevent leachate from entering the ground, nearby drains and surrounding water bodies. The stockpiling areas should be completely paved or covered by linings in order to avoid contamination to underlying soil or groundwater. Separate and clearly defined areas should be provided for stockpiling of contaminated and uncontaminated materials. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO).	To ensure handling of sediments are in accordance to statutory requirements	Contractor	All works areas with sediments concern	Construction Phase	ETWB TC(W) No. 34/2002 & Dumping at Sea Ordinance	
S8.6.24 - S8.6.28/ Waste Management Plan	 In order to minimise the potential odour / dust emissions during boring and transportation of the sediment, the excavated sediments should be kept wet during excavation/boring and should be properly covered when placed on barges. Loading of the excavated sediment to the barge should be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water. 						
S8.6.24 - S8.6.28/ Waste Management Plan	 The barge transporting the sediments to the designated disposal sites should be equipped with tight fitting seals to prevent leakage and should not be filled to a level that would cause overflow of materials or laden water during loading or transportation. In addition, monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self- monitoring devices as specified by the DEP. 						

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S8.6.24 - S8.6.28/ Waste Management Plan	• In order to minimise the exposure to contaminated materials, workers should, when necessary, wear appropriate personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities should also be provided on site.					
S8.6.24 - S8.6.28/ Waste Management Plan	 Another possible arrangement for Type 3 disposal is by geosynthetic containment. A geosynthetic containment method is a method whereby the sediments are sealed in geosynthetic containers and, at the disposal site, the containers would be dropped into the designated containmated mud pit where they would be covered by further mud disposal and later by the mud pit capping, thereby meeting the requirements for fully confined mud disposal. 	To ensure handling of sediments are in accordance to statutory requirements	Contractor	All works areas with sediments concern	Construction Phase	ETWB TC(W) No. 34/2002 & Dumping at Sea Ordinance
	Chemical Wastes.					
S8.6.26/ Waste Management Plan	 If chemical wastes are produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the Chemical Waste Treatment Centre at Tsing Yi, or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. 	To ensure proper management of chemical waste	Contractor	All works sites	Construction Phase	Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes Waste Disposal (Chemical Waste) (General) Regulation
S8.6.27/ Waste Management Plan	 General Refuse General refuse should be stored in enclosed bins or compaction units separate from C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material. 	To ensure proper management of general refuse	Contractor	All works sites	Construction Phase	Public Health and Municipal Services Ordinance (Cap. 132)
Impact on Cultural H	eritage (Construction Phase)					
\$9.6.4	 Dust and visual impacts Temporarily fenced off buffer zone with allowance for public access (minimum 1 m) should be provided; The open yard in front of the temple should be kept as usual for annual Tin Hau festival; Monitoring of vibration impacts should be conducted when the construction works are less than 100m from the temple. 	To prevent dust and visual impacts	Contractors	Work areas	Construction Phase	EIAO; GCHIA; AMO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
\$9.6.4	 Indirect vibration impact Vibration level is suggest to be controlled within a peak particle velocity (ppv) limit of 5mm/s measured inside the historical buildings; Monitoring of vibration should be carried out during construction phase. Tilting and settlement monitoring should will be applied on the Cha Kwo Ling Tin Hau Temple as well. A proposal with details for the mitigation measures and monitoring of impacts on built 	To prevent indirect vibration impact	Contractors	Work areas	Construction Phase	Vibration Limits on Heritage Buildings by CEDD; GCHIA; AMO.
Built Heritage Mitigation Plan	 heritage shall be submitted to AMO for comments before commencement of work. Established Alert, Alarm and Action Level for the monitoring parameters. To increase the instrumentation monitoring and reporting frequency. To propose detailed action plan or contingency plan for the Engineer's approval when AAA Level is reached or exceeded. 	To prevent vibration impacts	NE/2015/01	Tin Hau Temple	Construction Phase	Vibration Limits on Heritage Buildings by CEDD; GCHIA; AMO.
Landscape and Visua	al Impact (Construction Phase)					
Table 10.8.1/ Landscape Mitigation Plan	CM1 - Construction area and contractor's temporary works areas to be minimised to avoid impacts on adjacent landscape.	Avoid impact on adjacent landscape areas	CEDD (via Contractor)	General	Construction planning and during construction period	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM2 - Reduction of construction period to practical minimum.	Minimise duration of impact	CEDD (via Contractor)	N/A	Construction planning	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM3 - Topsoil, where the soil material meets acceptable criteria and where practical, to be stripped and stored for re-use in the construction of the soft landscape works. The Contract Specification shall include storage and reuse of topsoil as appropriate.	To allow re-use of topsoil	CEDD (via Contractor)	General	Site clearance	As per the Particular Specification
Table 10.8.1/ Landscape Mitigation Plan	CM4 - Existing trees at boundary of site and retained trees within site boundary to be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification, under which the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. (Tree protection measures will be detailed at Tree Removal Application stage).	To minimize tree loss	CEDD (via Contractor)	As per approved Tree Removal Application(s)	Site clearance and throughout construction period	ETWB TC 3/2006 and as per tree protection measures in Particular Specification
Table 10.8.1/ Landscape Mitigation Plan	CM5 - Trees unavoidably affected by the works shall be transplanted where practicable. Where possible, trees should be transplanted direct to permanent locations rather than temporary holding nurseries. A detailed tree transplanting specification shall be provided in the Contract Specification and sufficient time for preparation shall be allowed in the construction programme.	To maximize preservation of existing trees	CEDD (via Contractor)	As per approved Tree Removal Application(s)	Site clearance	ETWB TC 3/2006 and as per tree protection measures in Particular Specification
Table 10.8.1/ Landscape Mitigation Plan	CM6 - Advance screen planting of fast growing tree and shrub species to noise barriers and hoardings. Trees shall be capable of reaching a height >10m within 10 years.	To maximize screening of the works	CEDD (via Contractor)	At Lam Tin Interchange and edge of Road P2 landscape deck, TKO	Beginning of construction period	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM7 - Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material	To reduce visual intrusion	CEDD (via Contractor)	General	Throughout construction period	As per Particular Specification
Table 10.8.1/ Landscape Mitigation Plan	CM8 - Control of night-time lighting by hooding all lights and through minimisation of night working periods.	To reduce visual intrusion	CEDD (via Contractor)	General	Throughout construction period	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM9 - Screening of works areas with hoardings with appropriate colours compatible with the surrounding area	Reduction of visual intrusion	CEDD (via Contractor)	Project site Boundary	Excretion of site hoarding	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM10 - Avoidance of excessive height and bulk of site buildings and structure	Reduction of visual intrusion and integration with environment	CEDD (via Contractor)	Built structures	Design and construction stage	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM11 - Limitation of run-off into freshwater streams, ponds and sea areas	Avoidance of contamination of water courses and water bodie	CEDD (via Contractor)	TKO reclamation, TKO tunnel portal, Cha Kwo Ling roadworks	Throughout construction period	N/A
Table 10.8.1	CM12 - Minimise area of reclamation and design the edges sensitively to tie in with adjacent coastline characte	Minimise loss of Junk Bay and integration with existing coastlin	CEDD (via Contractor)	Temporary reclamation for barging points at TKO and Lam Tin and permanent reclamation for TKO Interchange slip roads and Road P2	Construction planning and reclamation stages	N/A

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
Landfill Gas Hazard	(Design and Construction Phase)					
S11.5.9	A Safety Officer, trained in the use of gas detection equipment and landfill gas-related hazards, should be present on site throughout the groundworks phase. The Safety Officer should be provided with an intrinsically safe portable instrument, which is appropriately calibrated and able to measure the following gases in the ranges indicated below: Methane 0-100% LEL and 0100% v/v Carbon dioxide 0-100% Oxygen 0-21%	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note
S11.5.10 S11.5.25	Safety Measures					
\$11.5.10 \$11.5.25	 For staff who work in, or have responsibility for "at risk" area, such as all excavation workers, supervisors and engineers working within the Consultation Zone, should receive appropriate training on working in areas susceptible to landfill gas, fire and explosion hazards. 					
\$11.5.10 \$11.5.25 \$11.5.10 \$11.5.25	 An excavation procedure or code of practice to minimize landfill gas related risk should be devised and carried out. No worker should be allowed to work alone at any time in or near to any excavation. At least one other worker should be available to assist with a rescue if needed. 	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note Labour Department's Code of Practice for Safety and Health at Work in Confined Space
\$11.5.10 \$11.5.25	 Smoking, naked flames and all other sources of ignition should be prohibited within 15m of any excavation or ground-level confined space. "No smoking" and "No naked flame" notices should be posted prominently on the construction site and, if necessary, special areas should be designed for smoking. Welding, flame-cutting or other hot works should be confined to open areas at least 15m 					Commed opace
\$11.5.10 \$11.5.25	from any trench or excavation.					
\$11.5.10 \$11.5.25	• Welding, flame-cutting or other hot works may only be carried out in trenches or confined spaces when controlled by a "permit to work" procedure, properly authorized by the Safety Officer (or, in the case of small developments, other appropriately qualified person).	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note Labour Department's Code of Practice for Safety and Health at Work in Confined Space
\$11.5.10 \$11.5.25	• The permit to work procedure should set down clearly the requirements for continuous monitoring for methane, carbon dioxide and oxygen throughout the period during which the hot works are in progress. The procedure should also require the presence of an appropriately qualified person, in attendance outside the 'confined area', who should be responsible for reviewing the gas measurements as they are made, and who should have executive responsibility for suspending the work in the event of unacceptable or hazardous conditions. Only those workers who are appropriately trained and fully aware of the potentially hazardous conditions which may arise should be permitted to carry out hot works in confined areas.					
\$11.5.10 \$11.5.25	 Where there are any temporary site offices, or any other buildings located within the Sai Tso Wan Landfill Consultation Zone which have enclosed spaces with the capacity to accumulate landfill gas, then they should either be located in an area which has been proven to be free of landfill gas (by survey using portable gas detectors); or be raised clear of the ground by a minimum of 500mm. This aims to create a clear void under the structure which is ventilated by natural air movement such that emission of gas from the ground are mixed and diluted by air. 					
\$11.5.10 \$11.5.25	 Any electrical equipment, such as motors and extension cords, should be intrinsically safe. During piping assembly or conduiting construction, all valves/seals should be closed immediately after installation. As construction progresses, all valves/seals should be closed to prevent the migration of gases through the pipeline/conduit. All piping /conduiting should be capped at the end of each working day. 	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note Labour Department's Code of Practice for Safety and Health at Work in Confined Space

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S11.5.10 S11.5.25	 During construction, adequate fire extinguishing equipment, fire-resistant clothing and breathing apparatus (BA) sets should be made available on site. 					
S11.5.10 S11.5.25	• Fire drills should be organized at not less than six monthly intervals.					
\$11.5.10 \$11.5.25	 The contractor should formulate a health and safety policy, standards and instructions for site personnel to follow. 					
\$11.5.10 \$11.5.25	 All personnel who work on the site and all visitors to the site should be made aware of the possibility of ignition of gas in the vicinity of excavations. Safety notices (in Chinese and English) should be posted at prominent position around the site warning danger of the potential hazards. 					
\$11.5.10 \$11.5.25	 Service runs within the Consultation Zone should be designated as "special routes"; utilities companies should be informed of this and precautionary measures should be implemented. Precautionary measures should include ensuring that staff members are aware of the potential hazards of working in confined spaces such as manholes and service chambers, and that appropriate monitoring procedures are in place to prevent hazards due to asphyxiating atmospheres in confined spaces. Detailed guidance on entry into confined spaces is given in Code of Practice on Safety and Health at Work in Confined Spaces (Labour Department, Hong Kong). 					
\$11.5.10 \$11.5.25	 Periodically during ground-works construction within the 250m Consultation Zone, the works area should be monitored for methane, carbon dioxide and oxygen using appropriately calibrated portable gas detection equipment. The monitoring frequency and areas to be monitored should be set down prior to commencement of ground-works either by the Safety Officer or an approved and appropriately qualified person. 	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note Labour Department's Code of Practice for Safety and Health at Work in Confined Space
	Monitoring					
S11.5.26 - S11.5.31	 Routine monitoring should be carried out in all excavations, manholes, chambers, relocation of monitoring wells and any other confined spaces that may have been created. All measurements in excavations should be made with the extended monitoring tube located not more than 10 mm from the exposed ground surface. Monitoring should be performed properly to make sure that the area is free of landfill gas before any man enters into the area. 					
S11.5.26 - S11.5.31	• For excavations deeper than 1m , measurements should be carried out:					
S11.5.26 - S11.5.31	• at the ground surface before excavation commences;-					
S11.5.26 - S11.5.31	• immediately before any worker enters the excavation;					
811.5.26 - 811.5.31	 at the beginning of each working day for the entire period the excavation remains open; and 					
S11.5.26 - S11.5.31	 periodically throughout the working day whilst workers are in the excavation. 		Contractor	Project sites within the Sai Tso Wan Landfill		EPD's Landfill Gas Hazard Assessment
S11.5.26 - S11.5.31	• For excavations between 300mm and 1m deep , measurements should be carried out:	Protect the workers from landfill gas hazards	Contractor	Consultation Zone	Construction phase	Guidance Note
S11.5.26 - S11.5.31	 directly after the excavation has been completed; and 					
\$11.5.26 - \$11.5.31 \$11.5.26 - \$11.5.31	 periodically whilst the excavation remains open. For excavations less than 300mm deep, monitoring may be omitted, at the discretion of 					
S11.5.26 - S11.5.31	 the Safety Officer or other appropriately qualified person. Depending on the results of the measurements, actions required will vary and should be set down by the Safety Officer or other appropriately qualified person. 					
S11.5.26 - S11.5.31	 The exact frequency of monitoring should be determined prior to the commencement of works, but should be at least once per day, and be carried out by a suitably qualified or qualified person before starting the work of the day. Measurements shall be recorded and kept as a record of safe working conditions with copies of the site diary and submitted to the Engineer for approval. The Contractor may elect to carry out monitoring via an automated monitoring system. 					
S11.5.32	The hazards from landfill gas during the construction stage within the Sai Tso Wan Landfill Consultation Zone should be minimized by suitable precautionary measures recommended in Chapter 8 of the Landfill Gas Hazard Assessment Guidance Note	construction stage within the Sai Tso Wan Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note

Table II - Observation / Reminder / Non-compliance made during Site Audit

✓ Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit ★ Observation/reminder was made during site audit but not yet improved/rectified by the contractor in the next site audit # Follow up action will be reported in next reporting month Key:

Non-compliance of mitigation measure
 Non-compliance but improved by the contractor

EIA Ref	Recommended Mitigation Measures	Contract No.	Work Sites	Details of Reminder/Observation	Recorded Date	Status
Water Quality	Impact Construction site runoir and drainage should be prevented or minimized in accordance with the guidelines stimulated in the EPD's					
S5.8.7	Construction site runori and dramage should be prevented or minimised in accordance with the guidelines stipulated in the EPD's Practice Note for Professional Persons, Construction Site Drainage (ProPECC PN 1/94). Good housekeeping and stormwater best management practices, as detailed in below, should be implemented to ensure that all construction runoff complies with WPCO standards and the prevention the inserts of WED.	NE2015/01	Slope H	Construction material was stacked inside drainage system.	30-Nov-22	#
Ecological Impa			0		1	
Construction N						
Landscape and	Visual Impact				1	
Air Quality Im					1	1
	Valid No-road Mobile Machinery (NRMM) labels should be provided to regulated machines	NE2015/01	Portion I	Missing NRMM label was observed on a hydraulic excavator.	26-Oct-22	~
\$3.8.7	Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides.	NE2015/01	Portion III	A stock of more than 20 bags of cement was observed without coverage. The Contractor should provide cover or shelter.	26-Oct-22	~
	Valid No-road Mobile Machinery (NRMM) labels should be provided to regulated machines	NE2015/02	Portion V	Missing and damaged NRMM labels were observed on an excavator and a generator.	10-Nov-22	~
S3.8.7	• Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs.	NE2015/02	Portion V	A pile of excavated material was observed without appropriate coverage.	10-Nov-22	~
Fisheries Impar	xt		1		1	
 Waste Manager						
waste wanager	All fuel tanks and storage areas should be provided with locks and be					1
\$5.8.22	located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters.	NE2015/01	Portion III	Chemicals without proper labels and drip tray was observed.	26-Oct-22	~
\$5.8.22	All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters.	NE2015/01	EHC	Chemical and fuel drums should be stored properly or apply drip tray to them.	02-Nov-22	~
\$5.8.22	All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters.	NE2015/01	Portion IVC	Chemical/ fuels without drip tray was observed on ground.	09-Nov-22	~
\$5.8.22	All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters.	NE2015/01	WAI	Some fuel drums was observed without drip tray.	16-Nov-22	~
S8.6.8/ Waste Management Plan	· Remove waste in timely manner;	NE2015/01	Portion III	Accumulation of construction and general waste was observed.	23-Nov-22	~
\$5.8.17	Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	NE2015/02	Portion VIII	Oil leakage was obseved in Portion VIII.	27-Oct-22	~
\$5.8.22	All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters.	NE2015/02	Portion IV	Chemical/fuels was observed without drip tray in Portion IV.	27-Oct-22	~
S8.6.8/ Waste Management Plan	· Remove waste in timely manner;	NE2015/02	Portion VII	Waste accumulation was observed in Portion VII and outside pumping station.	03-Nov-22	~
\$5.8.22	All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters.	NE2015/02	Portion IV	Chemical was observed without drip tray.	03-Nov-22	~
Landfill Gas Ha	azards				-	-
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APPENDIX O SUMMARIES OF ENVIRONMENTAL COMPLAINT, WARNING, SUMMON AND NOTIFICATION OF SUCCESSFUL PROSECUTION

Table O1 - Cumulative Complaint Log for Tseung Kwan O - Lam Tin Tunnel

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
628	18-Nov-22	16-Nov-22 / Non-specific	Anonymous	Noise	Construction Noise Nuisance during restricted hours at Tseung Kwan O (Nov 2022)	Y	Investigation undergoing	Investigation undergoing
627	18-Nov-22	13-Nov-22 / Non-specific	Anonymous	Noise	Construction Noise Nuisance during restricted hours at Tseung Kwan O (Nov 2022)	Y	Investigation undergoing	Investigation undergoing
626	4-Nov-22	29-Oct-22 / Portion IV	Anonymous	Noise	Construction Noise Nuisance during restricted hours at Tseung Kwan O (Oct 2022)	Y	Investigation undergoing	Investigation undergoing
625	7-Sep-22	7-Sep-22 / Portion IVC	Residents of Yau Lai Estate	Noise	Construction Noise Nuisance during restricted hours at Yau Tong (Sep 2022)	Y	The complaint is considered as project-related as construction works had been carried out at the public holidays. The Contractor had followed the instruction of the approve CNP. The details shall be referred to CIR-N180.	Closed
624	5-Sep-22	4-Sep-2022 / Portion VIII & IX of NE/2015/02	Anonymous	Noise	Construction Noise Nuisance during restricted hours at Tseung Kwan O (Sep 2022)	Y	The complaint is considered as project-related as there were various construction activities conducted during the time of complaint. The details shall be referred to CIR-N179.	Closed
623	18-Aug-22	17-Aug-22 / Non-specific	Anonymous	Noise	Construction Noise Nuisance during daytime	Y	The complaint is considered as project-related as there were various construction activities conducted during the time of complaint. The details shall be referred to CIR-N178.	Closed
622	26-Aug-22	18-Aug-22 / Non-specific	Anonymous	Noise	Construction Noise Nuisance at early monoring	Y	See Complaint #621	Closed
621	17-Aug-22	14-Aug-22 / Non-specific	Anonymous	Noise	Construction Noise Nuisance on Sunday	Y	The complaint is considered non-project-related as no construction works was undergoing during the time of complaint. The details shall be referred to CIR-N177.	Closed
620	11-Aug-22	9-Aug-22 / Lam Tin Ambulance Depot	Anonymous	Air	Dust Nuisance near Lam Tin Ambulance Depot	Ν	The complaint is considered as project-related as there were various construction activities conducted during the time of complaint. The details shall be referred to CIR-A23.	Draft CIR submitted
619	01-Aug-22	1-Aug-22 / Portion IX	Resident of Ocean Shores	Noise	Construction Noise Nuisance from an Excavator in the Morning (Aug 22)	Y	The complaint is considered as project-related as there is excavator working on-site during the time of the complaint. The details shall be referred to CIR-N176.	Closed
618	21-Jul-22	21-Jul-22 / Junk Bay	Non-specific	Water	Suspected water pollution at Junk Bay (July 2022)	Ν	The complaint is considered non-project-related as the phenomenon is due to the algae blooming in Hong Kong waters during summer monsoon season.	Closed
617	13-Jul-22	10-Jul-22 / Non-specific	Resident of Yau Lai Estate	Noise	Construction Noise Nuisance during Nighttime (July 2022)	Y	The complaint is considered non-project-related as no construction works was undergoing uring the time of complaint. The details shall be referred to CIR-N175.	Closed
616	12-Jul-22	12-Jul-22 / Portion IX	Resident of Ocean Shores	Noise	Construction Noise from a Yellow Excavator	Y	The complaint is considered as project-related. The Contractor had conducted maintanance on the excavator after receiving the complaint. The detials shall be referred to CIR-N173.	Closed
615	07-Jul-22	9-June-22 / Junk Bay	Anonymous	Water	Suspected Muddy Water Discharge near Ocean Shores (Jun 2022)	N	The complaint is considered as non-project related. There was no direct evidence showing the muddy water was produced and discharged by contracts under the Project. The details shall be referred to the CIR-W20.	Closed
614	13-May-22	12-May-2022 / Portion III & IVC	Resident of Yau Lai Estate	Noise	Construction noise during restricted hours near Yau Lai Estate	Y	The complaint is believed to be project-related as construction works had been carried out at the public holidays. The Contractor had followed the instruction of the approve CNP. The details shall be referred to CIR-N174.	Closed
613	10-Jun-22	9-Jun-22 / Portion IX	Resident of Ocean Shores	Noise	Construction Noise from a Yellow Excavator	Y	See Complaint #612	Closed
612	8-Jun-22	4-Jun-22 / Portion IX	Resident of Ocean Shores	Noise	Construction Noise from a Yellow Excavator	Y	The complaints are believed to be project-related as there is a yellow excavator working on-site during the time of the complaint. The details shall be referred to CIR-N173.	Closed
611	30-May-22	9-May-2022 / Portion IX	Anonymous	Noise	Construction Noise during Holiday (C2)	Y	The contracts located near Tseung Kwan O Bay Area were investigated. Construction works had been conducted for NE2015/02. However, the Contractor of NE2015/02 held a valid CNP and no non-compliance was recorded. No conclusion has been made as not all information had been collected. The details shall be referred to CIR-N172.	Closed
610	23-May-22	30-Apr-2022 / Non- specific	Anonymous	Noise	Construction Noise Nuisance at Night time April 2022 (C1)	Y	The complaint is considered non-project-related as no construction is undergoing during the time of the complaint. The details shall be referred to CIR-N171.	Closed
609	23-May-22	Apr & May-22 / Non- specific	Resident of Yau Lai Estate	Air & Noise	Deteriation of Indoor Air Quality and Noise Nuisance	Y	The complaint is believed to be project-related as construction works had been conducted during the time of the complaint. No non-compliance was recorded for this particular event. However, 1 Limit level exceedance of daytime construction noise was recorded at AM1 on 10 May 2022, while no limit level exceedance of dust nuisance was recorded between April 2022 and May 2022. The details shall be referred to CIR-C41.	Closed

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
608	12-May-22	2-May-22 / Portion I of NE2017/07	Anonymous	Noise	Construction Noise during Holiday (CBL-C1)	Y	The complaint is considered project-related as construction is udergoing during the time of the complaint. However, the contractor held a valid CNP and no non-compliance was recorded for this particular event. The details shall be referred to CIR-N171.	Closed
607	11-May-22	2-May-22 / Cha Kwo Ling Road	Anonymous	Noise	Construction Noise Nuisance at May 2022 (C1)	Y	See Complaint #597	Closed
606	5-May-22	29-Apr-22 / C3	Anonymous	Noise	Construction Noise Nuisance in Apr 2022 (C3)	Ν	The complaint is considerd as project-related. The braking works had completed at the concerned location. The details can be referred to CIR-N170	Closed
605	4-May-22	4-May-22 / Portion III	Anonymous	Noise	Construction Noise Nuisance at May 2022 (C1)	Y	See Complaint #597	Closed
604	3-May-22	2-May-22 / Portion III	Resident of Yau Lai Estate	Noise	Construction Noise Nuisance at May 2022 (C1)	Y	See Complaint #597	Closed
603	29-Apr-22	29-Apr-22 / Portion III	Resident of Yau Lai Estate	Air & Noise	Deteriation of Indoor Air Quality and Noise Nuisance	Y	See Complaint #597	Closed
602	30-Apr-22	17-Mar-22 & 15-Apr-22 / Junk Bay	Anonymous	Noise	Construction noise at night-time during a holiday	Y	The complaint is considered non-project-related as no works invovling barge were conducted during the time of the complaint. The details shall be referred to CIR-N168.	Closed
601	25-Apr-22	24-Apr-22 / Portion IX	Anonymous	Noise	Construction noise nuisance during Easter holiday	Y	See Complaint #600	Closed
600	25-Apr-22	16-Apr-22 / Portion IX	Anonymous	Noise	Construction noise nuisance during Easter holiday	Y	The complaint is considered project-related as construction was undergoing during the time of complaint. The Contractor held a valid CNP and no non-complaince was found. The details can be referred to CIR- N167.	Closed
599	26-Apr-22	25-Apr-22 / Portion III and IVC	Resident of Yau Lai Estate	Noise	Construction Noise Nuisance on Weekaday during daytime (Lam Tin side)	Y	See Complaint #597	Closed
598	19-Apr-22	10-Apr-22 / Marine Works Area	Anonymous	Noise	Construction Noise Nuisance from Marine Works Area	Y	The complaint is considered project-related as construction was undergoing during the time of complaint. The Contractor held a valid CNP and no non-complaince was found. The details can be referred to CIR- N166.	Closed
597	11-Apr-22	11-Apr-22 / Portion III and IVC	Resident of Yau Lai Estate	Noise	Construction Noise Nuisance on Weekaday during daytime (Lam Tin side)	Y	The complaint is considered as project-related. Various construction activities were conducted during the time of complaint. The details shall be referred to CIR-N169.	Closed
596	11-Apr-22	11-Apr-22 / Portion VIII and IX	Resident of Ocean Shores	Noise	Construction Noise Nuisance on Weekday morning (TKO side)	Y	The complaint is considered project-related as construction was undergoing during the time of complaint. The Contractor held a valid CNP and no non-complaince was found. The details can be referred to CIR- N164.	Closed
595A	22-Mar-22	20-Mar-22 / Non-specific	Resident of Yau Lai Estate	Noise	Construction noise during restricted hours near Yau Lai Estate	Y	See Complaint #597	Closed
595	14-Mar-22	27-Feb-22 / Marine Works Area	Anonymous	Noise	Construction noise nuisance on Sunday morning (Tseung Kwan O side)	Y	See Complaint #594	Closed
594	14-Mar-22	13-Mar-22 / Marine Works Area	Anonymous	Noise	Construction noise nuisance on Sunday morning (Tseung Kwan O side)	Y	The investigation result showed that the complaint should be considered as project-related in terms of construction noise. The details shall be referred to CIR-N163.	Closed
593	14-Mar-22	14-Mar-22 / Marine Works Area	Anonymous	Water	Suspecteed water pollution at Tseung Kwan O Bay	Ν	The complaint is considered non-project-related. The so-called "pollutant" was in fact natural occuring algal bloom. The details shall be referred to CIR-W19.	Closed
592	1-Mar-22	19-Feb-22 / Marine Works Area	Anonymous	Noise	Construction noise at night-time during a weekday	Y	See Complaint #590.	Closed
591	28-Feb-22	26-Feb-22 / Portion VII or IX	Resident of Ocean Shores	Noise	Noise nuisance by excavator during daytime	Y	No clear judgement has been made as it is difficult to identify which excavator the complainant is referring to. The details shall be referred to CIR-N162.	Closed
590	22-Feb-22	17-Feb-22 / Marine Works Area	Anonymous	Noise	Construction noise at night-time during a weekday	Y	The investigation results show that no construction works was carried out during the time period of complaint. The complaint is considered as non-project-related. The details shall be referred to CIR-N160.	Closed
589	14-Feb-22	11-Feb-22 / Portion III	Resident of Yau Lai Estate	Noise	Construction noise nuisance at normal hours (Yau Tong side, Feb 2021)	Y	The complaint is considered to be project-related as PME was operated during the time of complaint and no other nearby know noise source. The details shall be referred to CIR-N161.	Closed
588	31-Jan-22	30-Jan-22 / Along Tong Yin Street between the Capri and the Ocean Shores	Anonymous	Noise	Construction Noise at morning during holiday (Tseung Kwan O side)	Y	See Complaint #587	Closed
587	28-Jan-22	23-Jan-22 / Portion III	Anonymous	Noise	Construction Noise at morning during holiday (Tseung Kwan O side)	Y	The investigation results reveals the complaint is project-related. However, no PME was used on Sunday morning. The Contractor is reminded to follow valid CNP and the details can be referred to CIR-N159	Closed

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586	6-Jan-22	6-Jan-2021 / Non-specific	Anonymous	Noise	Construction noise nuisance at normal hours (Yau Tong side, Jan 2021)	Y	See Complanint #577	Closed
585	2-Jan-22	2-Jan-2021 / Non-specific	Resident of Yau Lai Estate	Noise	Construction Noise at morning during holiday (Yau Tong side)	Y	See Complaint #584	Closed
584	30-Dec-21	30-Dec-21 / Portion III of NE2015/01	Resident of Yau Lai Estate	Noise	Construction Noise at morning during holiday (Yau Tong side)	Y	The complaint is considered as project-related. The monitoring result has been reviewed and no exceedance was recorded. The details shall be referred to CIR-N158.	Closed
583	28-Dec-21	18-Dec-21 / Portion I of NE2017/07	Anonymous	Noise	Construction noise nuisance near Ocean Shores (Dec 2021)	Y	The complaint is considered as project-related. The barges were used for installing pair segment between 1900 and 2000. Afterwards, only the lights were turned on forsafeguarding throughout the rest of the night. The details shall be referred to CIR-N157	Closed
582	22-Dec-21	22-Dec-21 / Portion IVC	Resident of Yau Lai Estate	Noise	Construction noise nuisance at normal hours (Yau Tong side, Dec 2021)	Y	See Complanint #577	Closed
581	22-Dec-21	15-Dec-21 / Portion IX of NE2015/02	Anonymous	Noise	Construction noise nuisance near Ocean Shores (Dec 2021)	Y	See Complaint #578	Closed
580	17-Dec-21	15-Dec-21 / non-specific (Yau Tong side)	Anonymous	Noise	Construction noise nuisance at normal hours (Yau Tong side, Dec 2021)	Y	See Complanint #577	Closed
579	17-Dec-21	17-Dec-21 / Portion IX of NE2015/02	Resident of Ocean Shores	Noise	Construction noise nuisance near Ocean Shores (Dec 2021)	Y	The complaint is considred as project-related. Various construction activities were conducted during the time of complaint. Acoustic box was used for the breaker. No non-compliance was found. The details shall be referred to CIR-N157.	Closed
578	16-Dec-21	15-Dec-21 / Marine Works Area	Resident of Ocean Shores	Noise	Construction noise nuisance near Ocean Shores (Dec 2021)	Y	The complaint is considred as project-related. Amour rocking unloading was conducted during the time of complaint. No non-compliance was found. The details shall be referred to CIR-N157.	Closed
577	10-Dec-21	10-Dec-21 / Cha Kwo Ling Road	Resident of Yau Lai Estate	Noise	Construction noise nuisance at normal hours (Yau Tong side, Dec 2021)	Y	The complaint is considered as project-related. Construction works such as formwork erection, backfilling and concreting were undergoing during the time of complaint. The details shall be referred to CIR-N156.	Closed
576	16-Nov-21	15-Nov-21 / Portion IX of C2	Resident of Ocean Shores	Noise	High frequency noise nuisance during evening-time	Ν	It is believed that the complianant confused high- and low-frequency in the original complaint. See complaint #574 for more details.	Closed
575	17-Nov-21	Sep-21 / Cha Kwo Ling Road	Anonymous	Noise	Noise nuisance during Restricted Hours (September 2021)	Y	The complaint is considered as project-related as construction was undergoing at the time of complaint. The Contractor held a valid CNP and no non-compliance was found. Other potential noise source also exists and details shall be referred to CIR-N155	Closed
574	9-Nov-21	8-Nov-21 / Portion IX of C2	Resident of Ocean Shores	Noise	Low frequency noise nuisance during evening-time	Ν	The complaint is considered as non-project related as other potential low-frequency noise source exists. The details shall be referred to CIR-N154.	Closed
573C	16-Nov-21	7-Nov-2021 / Works Area of C1 (Cha Kwo Ling Road)	Resident living near Cha Kwo Ling Road	Noise	Noise nuisance between late October to early Novemer 2021	Y	See Complaint #573A	Closed
573B	5-Nov-21	31-Oct-21 / Works Area of C1 (Cha Kwo Ling Road)	Resident living near Cha Kwo Ling Road	Noise	Noise nuisance between late October to early Novemer 2021	Y	See Complaint #573A	Closed
573A	5-Nov-21	17-Oct-21 / Works Area of C1 (Cha Kwo Ling Road)	Resident living near Cha Kwo Ling Road	Noise	Noise nuisance between late October to early Novemer 2021	Y	The complaint is considered project-related as construction was undergoing during the time of complaint. The Contractor held a valid CNP and no non-complaince was found. The details can be referred to CIR- N153.	Closed
572	5-Nov-21	4-Nov-21 / Non-specific	Resident of Ocean Shores	Noise	Noise nuisance near Ocean Shores	Ν	See Complaint #571	Closed
571	26-Oct-21	25-Oct-21 / Non-specific	Resident of Ocean Shores	Noise	Noise nuisance near Ocean Shores	Ν	Preliminary results from noise monitoring showed no limit level of exceedance and no non-compliance regarding construction schedule was found. The details shall be referred to CIR-N152.	Closed
570	18-Oct-21	18-Oct-21 / Non-specific	Anonymous	Noise	Noise nuisance on holiday during daytime	Y	No clear judgement was made as other potential noise source existed. Nonetheless, the Contractor held a valid CNP and no non-compliance was found. The details shall be referred to CIR-N151.	Closed
569	8-Oct-21	8-Oct-21 / Tsueng Kwan O Bay	DSD	Water	Deteriation of Marine Water Quality in Tsueng Kwan O Bay under Adverse Weather	Ν	The complaint is considered as non-project related as the general condition of the sea is muddy during the date of incident. The details can be referred to CIR-W18.	Closed
568A	7-Oct-21	3-Oct-21 / Portion III	Resident of Yau Lai Estate	Air & Noise	Resident of Yau Lai Estate	Y	The complaint is considered as project-related. Monitoring data for air quality and construction noise has been reviewed. No limit level exceedance is recorded for construction noise and no action and limit level is record for air quality in the time of the complaint.	Closed
568	4-Oct-21	29-Sep-21 / Marine Works Area	Pedestrian	Odour / Water	Odour Nuisance near Tsueng Kwan O Bay (Sep 2021)	Ν	The complaint is considered as non-project-related. Measures such as adopting low-sulphur content diseil as far as possible is recommended. The details can be referred to CIR-O9.	Closed

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567	29-Sep-21	14-Sep-2021 / Marine Works Area (C6)	Anonymous	Noise	Construction Works during Restricted Hours (Sep 2021)	Y	The complaint is considered as project-related and no non-complaince was recorded. The monitoring result of evening noise at Tsueng Kwan O throughout September 2021 was reviewed and no limit level exceedance was found. The details shall be referred to CIR-N150.	Closed
566	17-Sep-21	16-Sep-21 / Portion IVC (C1)	Resident of Yau Lai Estate	Noise	Construction Noise nuisance from Portion IVC of NE/2015/01	Y	See Complaint #563	Closed
565	10-Sep-21	9-Sep-21 / Portion III	EPD	Air	Air pollution from construction dust	Ν	See complaint #564	Closed
564	10-Sep-21	6-Sep-21 / Portion I	Anonymous	Air	Air pollution from construction dust	Ν	Exceedance of 24hr TSP were recorded and evidence of air-quality-related environmental deficiencies were identified during site inspections. The complaint is considered project-related and details shall be referred to CIR-A22.	Closed
563	2-Sep-21	2-Sep-21 / Portion III	Resident living in Cha Kwo Ling	Noise	Construction noise during evening time (Sep 2021)	Y	The complaint is considered as project-related. Monitoring results indicate the construction noise are close to the limit level. The details shall be referred to CIR-N149.	Closed
562	19-Aug-21	15-Aug-21 / Lei Yu Mun Road	Anonymous	Noise	Construction noise nuisance near Lei Yu Mun Road on Sunday	Y	The complaint is considere as project-related as the construction works were carried out during the time of complaint. No monitoring was conducted on Public Holiday. The details shall be referred to CIR-N148.	Closed
561	6-Aug-21	6-Aug-2021 / Non- specific	Resident living in Tiu Keng Ling	Noise	Construction Noise Nuisance on Weekday during Daytime (Aug 2021)	Y	The complaint was considered as project-related. No non-compliance and limit level of daytime construction noise was recorded during late July 2021 and early August 2021. The details of complaint shall be referred to CIR-N147.	Closed
560	31-Jul-21	31-Jul-2021 / Portion VIII	Resident from Ocean Shores	Noise	Construction Noise Nuisance on Saturnday near Ocean Shores (Jul 2021)	Y	The complaint is considered as project-related. Results of construction noise is reviewed and no limit level exceedance was recorded. No non-compliance was found. The details shall be referred to CIR-N146.	Closed
559	3-Aug-21	Jan 2021 - Jun 2021 / Marine Works Area	Resident from Ocean Shores	Noise	Noise Nuisance near Ocean Shores (Jan - Jun 2021)	Y	The complaint included a long-period of time and the current noise mitigation measures were reviewed. No limit level of construction noise was recorded throughout Jan 21 - Jun 21, Despite the complaint is considered as project-related, no non-compliance was recorded. The details shall be referred to the CIR-N145.	Closed
558	11-Jul-21	11-Jul-2021 / Marine Works Area	Anonymous	Working Hours	Operation of Marine Construction Works during Restricted Hours (Jul - 2021)	Ν	The barge shown in the photo provided by the Complainant was not belong to the Project. The compliant was non-valid and thus the complaint is considered as non-project-related. The details shall be referreed to CIR-O8.	Closed
557A	14-Jul-21	14-Jul-21 / Portion III	Resident of Yau Lai Estate	Noise	Noise Nuisance from Construction Works (C1 - Jul)	Y	The complaint is considered as project-related. Construction works were undergoing at the time of complaint and PMEs were operating. No non-compliance was recorded.	Closed
557	20-Jul-21	19-Jul-2021 / Eastern Harbour Crossing	Resident from Bik Lai Estate	Noise	Noise Nuisance from Construction Works (C1 - Jul)	Y	The complaint is considered as project-related. Construction works were undergoing at the time of complaint and PMEs were operating. No non-compliance was recorded. The details shall be referred to CIR-N144.	Closed
556	27-Jun-21	27-Jun-2021 / Marine Works Area	Anonymous	Working Hours	Operation of Marine Construction Works during Restricted Hours	Y	Tug boat and crane barge were used for relocating barge and airlifting materials. The Contractors held valid and approved CNP. No non-compliance was recorded. The details shall referred to CIR-N143.	Closed
555	29-Jun-21	29-Jun-21 / Marine Works Area	Anonymous	Water	Suspected Muddy Water at the Marine Works Area	Ν	No ddirect evidewnce point towards C2 was the source of muddy water. The details of complaint shall be referred to CIR-W17.	Closed
554	29-Jun-21	25-Jun-21 / Marine Works Area	Anonymous	Light / Working Hours	Construction works during restricted hours and light nuisance	Ν	No construction was undergoing during the time of complaint. The light shown in photo was used as safeguarding purpose. Details shall be referred to CIR-O7.	Closed
553	27-May-21	26-May-21 / C3	Anonymous	Air	Air quality impact nuisance nearby Po Yap Road (C3 - Apr & May 2021)	Ν	See Complaint #551	Closed
552	18-May-21	17-May-21 / C1	Anonymous	Noise	Noise Nusiance from Construction Works (C1 - May)	Y	The complaint is considered as project-related. Construction activities were undergoing during the time of complaint and deficiencies of noise mitigation measures can be observed. The details shall be referred to CIR- N142.	Closed
551	21-May-21	23-Apr-21 / C3	Resident from Ocean Shores	Air	Air quality impact nuisance nearby Po Yap Road (C3 - Apr & May 2021)	Ν	The contractor had applied mitigation measures such as regular watering and covering stockpile of dusty materials. The complaint is considered as project-related and details shall be referred to CIR-A21	Closed
550	21-May-21	4-May-21 / C2 & C3	Resident from Ocean Shores	Noise	Noise nuisance at early morning (C2&C3 May 2021)	Ν	The complaint is considered as non-project-related as both contractor and RE confirmed that no construction was carried out on or before 8 a.m. on the date of incident. The details shall be referred to CIR-N139	Closed
549	26-Apr-21	21-Apr-21 / C1	Mr. Chan from Hong Nga Court	Noise	Noise nuisance at morning (C1-Late Apr)	Y	See Compliant #547	Closed
548	26-Apr-21	23-Apr-21 / C1	Mrs. Ho from Lung pak House	Noise	Noise nuisance at morning (C1-Late Apr)	Y	See Compliant #547	Closed

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547	26-Apr-21	25-Apr-21 / C1	Mr. Lau from Yung Lai House	Noise	Noise nuisance at morning (C1-Late Apr)	Y	The complaint is considered as project-related. Construction works were undergoing at the time of complaint and PMEs were operating. No non-compliance was recorded. The details shall be referred to CIR-N141.	Closed
546	19-Apr-21	4&11-Mar-21 / Marine Works Area	Anonymous	Noise	Noise nuisance on holiday mornings (C6 - Apr)	Y	The complaint is considered as project-related and rebar fixing and framework erection was undergoing. No PME was operating during the time of complaint. A valid CNP is held by the Contractor and no non-compliance was identified. The details shall be referred to CIR-N140.	Closed
545	19-Apr-21	22-Mar-21 / Portion IX	Mr. Lai (Sai Kung District Council Member)	Noise	Noise nuisance on holiday mornings (C2 - Mar)	Ν	See Complaint #538	Closed
544	19-Apr-21	11-Mar-21 / Portion III	Resident of Yau Lai Estate	Noise	Noise Nusiance from Construction Works (C1 - Mar)	Y	See Complaint #521	Closed
543	19-Apr-21	3-Apr-21 / Portion III	Resident of Yau Lai Estate	Noise	Noise Nusiance from Construction Works (C1 - Apr)	Y	See Complaint #534	Closed
542	19-Apr-21	3-Apr-21 / Portion III	Resident of Yau Lai Estate	Noise	Noise Nusiance from Construction Works (C1 - Apr)	Y	See Complaint #534	Closed
541	19-Apr-21	7-Apr-21 / Portion III	Resident of Ping Tin Estate	Noise	Noise Nusiance from Construction Works (C1 - Apr)	Y	See Complaint #534	Closed
540	19-Apr-21	14-Apr-21 / Portion III	Mr. Wang (Kwun Tong District Council Member)	Noise	Noise Nusiance from Construction Works (C1 - Apr)	Y	See Complaint #534	Closed
539	16-Apr-21	22-Mar-21 / Portion IX	Residentof Ocean Shores	Noise	Suspected Construction Works during evening-time (C2 - Mar)	Ν	See Complaint #534	Closed
538	16-Apr-21	Non-specific / Works area near Ocean Shores	Residentof Ocean Shores	Noise	Noise nuisance on holiday mornings (C2 - Mar)	Ν	No works was conducted during the time of complaint. The complaint is considered as non-project- related.Details shall be referred to CIR-N138.	Closed
537	15-Apr-21	14/4/2021 / Works area near Park Central	Resident of Park Central	Noise	Noise Nusiance due to Breaking Works (C3- Apr)	Y	Breaking works was conduced during the time of complaint. No limit level for noise monitoring was triggered. The complaint is considerd as project-related. Details shall be referred to CIR-N137.	Closed
536	14-Apr-21	7/4/2021 / Portion IX	Resident of Ocean Shores	Noise	Suspected low-frequency noise nuisance at Portion IX (Apr 2021)	Ν	The complaint is considered as non-project-related as no PME was turned on during the time of complaint. Details shall be referred to CIR-N136.	Closed
535	14-Apr-21	7/4/2021 / C1	Resident of Lam Tin Districct	Noise	Noise nuisance during nighttime (C1 - Apr 2021)	Y	See Complaint #534	Closed
534	8-Apr-21	3/4/2021 / C1	Resident of Yau Lai Estate	Noise	Noise nuisance during nighttime (C1 - Apr 2021)	Y	The complaint is considered as project-related as there was construction works conducted at Kwun Tong Bypass. The details shall be referred to CIR-N135.	Closed
533	26-Mar-21	15-Mar-2021 / Portion IVC or III	Resident of Yau Lai Estate	Noise	Noise nuisance during daytime (C1 - Mar 2021)	Y	See Complaint #521	Closed
533A	2-Mar-21	2-Mar-2021 / Portion IVC or III	Anonymous	Noise	Noise nuisance during daytime (C1 - Mar 2021)	Y	See Complaint #521	Closed
532	16-Mar-21	10-Mar-2021 / Zone C	Mr. Lui (Sai Kong District Council Member)	Noise	Noise nuisance during daytime (C3 - Mar 2021)	Y	See Complaint #529	Closed
531	10-Mar-21	10-Mar-2021 / Zone C	Resident of Park Central	Noise	Noise nuisance during daytime (C3 - Mar 2021)	Y	See Complaint #529	Closed
530	10-Mar-21	10-Mar-2021 / Zone C	Resident of Park Central	Noise	Noise nuisance during daytime (C3 - Mar 2021)	Y	See Complaint #529	Closed
529	10-Mar-21	10-Mar-2021 / Zone C	Resident of Park Central	Noise	Noise nuisance during daytime (C3 - Mar 2021)	Y	The complaint is considered as project-related and no non-compliance was found. The noise origin was believed to be the breaking works conducting at Po Yap Road. The concerned breaking works was completed on 13 Mar 2021. The details shall be referred to CIR-N134.	Closed
528	10-Mar-21	10-Mar-2021 / Portion IVC or III	Resident of Yau Lai Estate	Noise	Percussive Noise nuisance at morning (C1 - Mar 2021)	Y	See Complaint #521	Closed
527	10-Mar-21	10-Mar-2021 / Portion IVC or III	Resident of Yau Lai Estate	Noise	Percussive Noise nuisance at morning (C1 - Mar 2021)	Y	See Complaint #521	Closed
526	10-Mar-21	10-Mar-2021 / Portion IVC or III	Resident of Yau Lai Estate	Noise	Percussive noise nuisance at morning (C1 - Mar 2021)	Y	See Complaint #521	Closed
525	9-Mar-21	5-Mar-2021 / Portion IX	Anonymous	Noise	Noise nuisance during daytime (C2 - Mar 2021)	Y	See Complaint #522	Closed
524	9-Mar-21	9-Mar-2021 / Portion IVC or III	Mr. Wong from District Councilers	Noise	Percussive noise nuisance at morning (C1 - Mar 2021)	Y	See Complaint #521	Closed
523	9-Mar-21	9-Mar-2021 / Portion IVC or III	Resident of Yau Lai Estate	Noise	Percussive noise nuisance at morning (C1 - Mar 2021)	Y	See Complaint #521	Closed

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523A	5-Mar-21	5-Mar-2021 / Portion III or IVC	Anonymous	Noise	Percussive noise nuisance at morning (C1 - Mar 2021)	Y	See Complaint #521	Closed
522	4-Mar-21	3-Mar-2021 / Portion IX	Resident of Ocean Shore	Noise	Noise nuisance during daytime (C2 - Mar 2021)	Y	The complaint case was considered as project-related. The Contractor is reminded to close the gap of noise barrier and repair damaged noise barriers. The details shall be referred to CIR-N132.	Closed
521	4-Mar-21	3-Mar-2021 / Portion IVC or III	Estate	Noise	Noise nuisance during daytime (C1 - Mar 2021)	Y	The complaint is considered as project-related. No limit level of construction noise was recorede during March 2021 and the details shall be referred to CIR-N133.	Closed
521A	1-Mar-21	2-Mar-2021 / Portion IVC or III	Resident of Ping Tin Estate	Noise	Noise nuisance during daytime (C1 - Mar 2021)	Y	See Complaint #521	Closed
520	1-Mar-21	1-Mar-2021 / Portion IVC or III	Resident of Yau Lei Estate	Noise	Noise nuisance during daytime (C1 - Mar 2021)	Y	See Complaint #518	Closed
520A	1-Mar-21	Non-specific	Resident of Yau Lei Estate	Noise	Noise nuisance during daytime (C1 - Mar 2021)	Y	See Complaint #521	Closed
519	24-Feb-21	21-Feb-2021 / Non- specific	Resident of Ocean Shores	Noise	Noise nuisance on morning (Feb 2021)	Ν	No PME was operating on-site at the time of compliant and the complaint is considered as non-project- related. The details shall be referred to CIR-N131	Closed
518	19-Feb-21	12-13 & 18 Feb 2021 / Non-specific	Resident of Yau Lei Estate & Hong Pak Court	Noise	Percussive noise nuisance at morning (C1)	Y	Incestigation result shows that the percussive noise nuisance was generated from Portion IVC. The construction work started after 0700 and no limit level of daytime noise exceedance was recorded. The details shall be referred to CIR-N130	Closed
518A	1-Mar-20	27 Feb 2021 / Non- specific	Non-specific	Noise	Percussive noise nuisance at morning (C1)	Y	See complaint #518	Closed
518B	1-Mar-20	25 feb 2021 / Non- specific	Resident of Hong Pak Court	Noise	Percussive noise nuisance at morning (C1)	Y	See complaint #518	
517	8-Feb-21	8/2/2021 / Non-specific	Resident of Ocean Shores	Noise	Noise Nuisance from Excavator	Y	No clear judgement was made as the complainant's information is too vague and it is hard to pinpoint the excavator mentioned in the complaint was in fact the one located at the project site. The details shall be referred to CIR-N129.	Closed
516	26-Jan-21	21-Feb-2021 / Non- specific	Resident of Ocean Shores	Noise / Operating Hours		Ν	No PME was operating on-site on the date of complaint. The details shall be referred to CIR-N128	Closed
515	23-Jan-21	12-13 & 18 Feb 2021 / Non-specific	Resident of Yau Lei Estate & Hong Pak Court	Noise	Continous Noise Nuisance during Nighttime (Jan 2021)	Ν	See complaint #504	Closed
514	22-Jan-21	8/2/2021 / Non-specific	Resident of Ocean Shores	Noise		Y	See complaint #511	Closed
513	22-Jan-21	15-Jan-2021 / Zone D	Resident of Ocean	Air	Air quality impact due to open	Ν	See Complaint #508	Closed
512	22-Jan-21	20-Jan-2021 / Zone D	Shores		stockpile	N		
511	20-Jan-21	6/1/2021 & 15/1/2021 / Portion IX of C2	Resident of Ocean Shores	Noise		Y	The complaint is considered as project-related as barge was operating in during time of complaint. The details shall be referred to CIR-N128	Closed
510	19-Jan-21	Non-specific / Portion IX of C2	Shores	Noise	Continous Noise Nuisance during Nighttime (Jan 2021)	Ν	See complaint #505	Closed
509	15-Jan-21	15/1/2021 / Portion IX of C2	Resident of Ocean Shores	Noise		Ν	See complaint #505	Closed
508	13-Jan-21	5/1/2020 / Storage Area of C3	Resident of Ocean Shores	Air	Air quality impact due to open stockpile	Ν	The Complaint was found project-related. The dust origin was from the stockpile at Zone A of C3. The Contractor had sprayed water regularly to suppress the dust emission and improvement had been observed over Jan 2021. Details shall be referred to CIR-A20.	Closed
507	13-Jan-21	5/1/2020 / Storage Area of C3	Resident of Ocean Shores	Air	Air quality impact due to open stockpile	Ν	The Complaint was found project-related. The dust origin was from the stockpile at Zone A of C3. The Contractor had sprayed water regularly to suppress the dust emission and improvement had been observed over Jan 2021. Details shall be referred to CIR-A20.	Closed
506	7-Jan-21	6-Jan-2020 / Portion IX	Resident of Ocean Shores	Noise	Continous Noise Nuisance during	Y	See Complaint #500	Closed
505	4-Jan-21	22-Dec-2020 / Portion IX	Resident of Ocean Shores	Noise	Nighttime (Jan 2021)	Ν	No clear judgement was made. Other than the construction site, other source for low-frequncy noise was also identified. Details shall be referred to CIR-N128	Closed
504	4-Jan-21	1-Jan-2020/C1	Resident of Yau Lai Est.	Noise	Suspected noise nuisance from work site	Ν	The complaint was considered non-project-related as there was no PME working on site. The details shall be referred to CIR-N127.	Closed
503	30-Dec-20	21-Dec-2020 / Portion IX	Resident of Ocean Shores	Noise		Y		Closed
502	28-Dec-20	22&23-Dec-2020 / Portion IX	Resident of Ocean Shores	Noise		Y	See complaint #500	Closed

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501B	23-Dec-20	22-Dec-2020 / Portion IX	Resident of Ocean Shores	Noise	Noise nuisance at nighttime on a	Y		Closed
501A	23-Dec-20	22-Dec-2020 / Portion IX	Resident of Ocean Shores	Noise	weekday	Ν	No direct evidence show that the Contractor operated barges at the time of complaint. Therefore the complaint was considered as non-project-related. The details shall be referred to CIR-N126.	Closed
501	23-Dec-20	22-Dec-2020 / Portion IX	Resident of Ocean Shores	Noise		Y	The Contractor operated PME(s) at evening-/night- time without an approved valid CNP. The complaint is	Closed
500	22-Dec-20	22-Dec-2020 / Portion IX	Resident of Ocean Shores	Noise		Y	considered as project-related. The details shall be referred to CIR-N126.	Closed
499	21-Dec-20	20/12/2020 / marine works area	Resident of Ocean Shores	Operating hours / Noise	Horning noise nuisance on Sunday	N	The complaint is considered as non-project-related as no barge was working under the TKOLTT project at the time of complaint. The details shall be referred to CIR-O6.	Closed
498	18-Dec-20	17-Dec-2020 / Marine Works Area	Resident of Ocean Shores	Noise	Low frequency noise & occasional piling noise nuisance during night- time	Y	The complaint is considered as project-related as the noise nuisance was coming from water pumps that working 24/7. Details shall be referring to CIR-N125.	Closed
497	9-Dec-20	Days on/before 9/12/2020 / Portion IVC	Resident of Yau Lai Estate	Air & Noise	Dust & Noise Nuisance near Lam Tin Interchange (December)	Y	See Complaint #494	Closed
496	3-Dec-20	Days before 3-Dec-20 / Lam Tin Tunnel	Resident of Hong Pak Court	Noise	Dust & Noise Nuisance near Lam Tin Interchange (December)	Y	See Complaint #494	Closed
495	16-Dec-20	12-Dec-2020 / Po Yap Road	Resident of Park Central	Noise	Night time machenical noise nuisance	Y	The complaint is considered as project-related as the noise nuisance was coming from water pumps that working 24/7. Details shall be referring to N124.	Closed
494	5-Dec-20	Early Dec 2020 / Portion III	Resident of Lung Pak House / Staff from Elderly Hoouse nearby	Noise	Noise Nuisance near Lam Tin Interchange (December)	Y	The complaint is considered as project-related and no non-compliance in CNMP had been recorded. The contractor is reminded to ensure the effectiveness of noise mitigation measures by various measures including repairing damaged noise barrier. The details shall be referred to CIR-C40.	Closed
493	8-Dec-20	25-Nov-2020 & 2-Dec- 2020 / Works area nearby Park Central	Resident of Park Central	Noise	Percussive noise nuisance from at early morning	Ν	The complaint is considered as non-project-related. No operating PME(s) under TKO-LTT project at the time of complaint was known to emit percussive noise at the time of complaint. The details shall be referred to CIR-N123.	Closed
492	18-Nov-20	18-Nov-2020 / Portion VIII (C2)	Resident of Ocean Shores	Noise	Construction Noise nuisance at Morning	Y	Prelimary result reveals that pre-boring and breaking works had been conducted at the time of complaint. The details shall be referred to CIR-N122.	Closed
491	18-Nov-20	16-Nov-2020 / C1	Resident of Yau Lai Estate	Noise	Noise Nuisance near Lam Tin Interchange (Restricted Hour)	Y	See Complaint #490.	Closed
490	13 & 16 Nov 20	5-12 & 14-Nov-2020 / C1	Resident of Yau Lai Estate	Noise	Noise Nuisance near Lam Tin Interchange (Restricted Hour)	Y	The complaint is considered as project-related. The origin of noise nuisance was believed to be construction works at Tunnel S1 and S2. No non-compliance was found and the details shall be referred to CIR-N121	Closed
489	13-Nov-20	13-Nov-2020 / C1	Resident of Yau Lai Estate	Air & Noise	Dust and Noise Nuisance in Portion IVC	Y	The complaint was found project-related. The contractor had adpoted various noise mitigation measures suc as rock splitting method and erection of semi-enclosure to further reduce the noise impact to its surrounding. The details shall be referred to CIR-C39.	Closed
488	13-Nov-20	10-Nov-2020 / C2	Resident of Ocean Shores	Air	Dust emission from construction works	Ν	The complaint was found project-related. The Contractor is recommended to spray water more requently to suppress the dust nuisance. The details shall be referred to CIR-A19.	Closed
487	11-Nov-20	5-Nov-2020 / Portion IVC	Resident of Yau Lai Estate	Noise	Noise Nuisance near Lam Tin Interchange (Late September to November)	Y	See Compliant #468	Closed
486	11-Nov-20	6-Nov-2020 / Portion IVC	Resident of Yau Lai Estate	Noise	Noise Nuisance near Lam Tin Interchange (Late September to November)	Y	See Compliant #468	Closed
485	7-Nov-20	7-Nov-20	Resident of Park Central	Noise	Precussive noise nearby Park Central	Y	The complaint is considered non-project-related as no PME that know to emit percussive noise was operating during the time of complaint. The details shall be referred to CIR-N120.	Closed
484	7-Nov-20	7-Nov-20 / Portion IV	Resident of Ocean Shores	Noise	Noise Nuisance from Excavation Works	Y	See complaint #481	Closed
483	6-Nov-20	6-Nov-20	Resident of Ocean Shores	Noise	Low-frequency noise at night (Oct&Nov 2020)	Ν	The low-frequency noise was found coming from the water pumps that works 24/7 and other source may also contribute to the noise nuisace. The Contractor had followed the approved CNP. The complaint is considered project-related and shall be referred to CIR-N119	Closed
482	30-Oct-20	29-Oct-2020 / C2	Non-specific	Air	Dust emission from construction works	Ν	Despite the contractor had sprinkle water regularly, the haul road was found dry during site audit session. The Contractor is reminded to sprinkle water more frequently and cover stockpiles of dusty material to reduce dust emission. The details shall be referred to CIR-A19	Closed
481	3-Nov-20	2-Nov-2020 /Portion IV	Resident of Ocean Shores	Noise	Noise Nuisance from Excavation Works	Y	The complaint is considered project-related as no other possible noise origin is know to emit such kind of noise at the surrounding. The Contractor had been reminded to applied lubricants and tighten the screws to reduce noise level. The details shall be referred to CIR-N118	Closed

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480	3-Nov-20	3-Nov-2020 / Portion IVC	Resident of Yau Lai Est	Noise	Noise Nuisance near Lam Tin Interchange (Late September to November)	Y	See Complaint #469	Closed
479	3-Nov-20	2-Nov-2020 / Portion IVC	Resident of Yau Lai Est	Noise	Noise Nuisance near Lam Tin Interchange (Late September to Early November)	Y	See Complaint #469	Closed
478	3-Nov-20	30-Oct-2020 / Portion IVC	Mr. Wong from District Councilers	Noise	Noise Nuisance near Lam Tin Interchange (Late September to Early November)	Y	See Complaint #469	Closed
477	30-Oct-20	15-Oct-2020 / Portion IVC	Non-specific	Air	Air & Noise Nuisance near Lam Tin Interchange (October)	Ν	See Complaint #469	Closed
476	29-Oct-20	29-Oct-2020 / Portion IVC	Resident of Yau Lai Est	Noise	Noise Nuisance near Lam Tin Interchange (Late September to Early November)	Y	See Compliant #468	Closed
475	28-Oct-20	Not specific / Lam Tin interchange	Non-specified (near Yau Lai Estate)	Noise	Air & Noise Nuisance near Lam Tin Interchange (October)	Y	See Complaint #469	Closed
474	23-Oct-20	23-Oct-20 / Portion IX	Resident from Ocean Shores	Noise	Low-frequency noise at night (Oct- Nov 2020)	Ν	The low-frequency noise was found coming from the water pumps that works 24/7 and other source may also contribute to the noise nuisace. The Contractor had followed the approved CNP. The complaint is considered project-related and shall be referred to CIR-N119	Closed
473	21-Oct-20	19-Oct-20 / Portion IX	Resident from Ocean Shores	Noise	Noise Nuisance near Portion IX	Y	See complaint #459	Closed
472	20-Oct-20	20-Oct-20 / Portion IV	Resident from Ocean Shores	Noise	Noise Nuisance from Excavation Works	Y	Preliminary results show the noise source was from the backhoe at Portion IV. The Contractor had applied mitigation measures such as adding lubricant to mounting parts to alleviate the problem. The details shall be referred to CIR-N118	Closed
471	6-Oct-20	6-Oct-20 / Portion IX	Resident from Ocean Shores	Noise	Noise nuisance at morning (Oct 2020)	Y	See complaint #459	Closed
470	10-Oct-20	3-10 Oct 20 / Portion IVC	Resident of Yau Lai Estate	Noise	Noise Nuisance near Lam Tin Interchange (Late September to Early November)	Y	See Compliant #468	Closed
469	10-Oct-20	9-10 Oct 20 / Lam Tin Interchange	DC Member (Mr. Wang)	Noise	Air & Noise Nuisance near Lam Tin Interchange (October)	Y	The complaint is considered as project-related and no non-compliance in CNMP had been recorded. The contractor had adopted mitigation measures such as deploying noise absorbing materials among construction site and spraying water near dust generating activities. The details shall be referred to CIR-C38.	Closed
468	5-Oct-20	Mondays - Saturdays / Portion IVC	Resident of Yau Lai Estate	Noise	Noise Nuisance near Lam Tin Interchange (Late September to Early November)	Y	See complaint #468A	Closed
468A	5-Oct-20	Mondays - Saturdays / Portion IVC	Resident of Yau Lai Estate	Noise	Noise Nuisance near Lam Tin Interchange (Late September to Early November)	Y	The complaint was considered project-related. Mitigation measures such as deploying noise barrier and attempts on blocking direct line of sight from NSR was observed. The details shall be referred to CIR-N117.	Closed
467	23-Sep-20	19-Sep-2020 / Portion IX	Resident of Ocean	Noise	Daytime noise nuisance (mid- September)	Y	See complaint #459	Closed
466	22-Sep-20	20-Sep-2020 / Portion IX	Shores	Noise / Working	Noise nuisance on Sunday	Y	Investigation result shows none of the contract under TKOLTT conducted works on Sunday. The details	Closed
465	20-Sep-20	20-Sep2020 / Portion IX		Hours	-	Y	shall be referred to CIR-O5	Closed
464	17-Sep-20	August 2020 / Portion IX	Resident of Ocean Shores	Noise	Continuous Noise Nuisance over Aug 2020	Y	The investigation shows no non-compliance and action level for noise is triggered. The details shall be referred to CIR-N113	Closed
463	15-Sep-20	15-Sep-2020 / Non- specific	Anonymous	Noise	Percussive noise nuisance at early morning	Y	See complaint #462.	Closed
462	8-Sep-20	10-Sep-2020 / Potion IX	Anonymous	Noise	Suspected muddy water discharge	Ν	The complaint is considered non-project-related. The investigation pointed out the Contractor had maintain wastewater treatment facilities properly and no action or limit level of surface SS was triggerred after the incident. The muddy water was coming from DSD desilting compound. Details shall be referred to CIR-W16	Closed
461	5-Sep-20	5-Sep-2020 / Portion IX	Resident of Ocean Shores	Noise	Squeaky noise on a Saturnday Morning	Y	The squeaky noise believed was coming from operating barges at C6. No non compliance was found. Details shall be referred to CIR-N115	Closed
460	8-Sep-20	8-Sep-2020 / Portion IVC	Resident of Yau Lai Estate	Noise	Noise nuisance near East Habour Cross Tunnel	Y	See complaint #456	Closed

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459	4-Sep-20	1-Sep-2020 / Portion IX	Resident of Ocean Shores	Noise	Noise nuisance at morning (Early Sep 2020)	Y	The complainant had repeatedly complaint about the continuous noise nuisace from September to October 2020. The complaint is considered as project-related. The result of noise monitoring had been reviewed and no limit level of exceedance was found. The details of complaint shall be referred to CIR-N114.	Closed
458	28-Aug-20	Early August 20 / Lam Tin Tunnel	Resident from Yau Lai Estate	Noise	Long-term noise nuisance since early August	Y	See complaint #456	Closed
457	27-Aug-20	24&25-Aug-20 / Portion IX	Rersident from Ocean Shores	Noise	Noise nuisance at morning (Late August 2020)	Y	See complaint #456	Closed
456	18-Aug-20	18-Aug-20 / Portion IVC	Resident from Yau Lai Estate	Noise	Noise nuisance near East Habour Cross Tunnel	Y	Investigation showed the nuisance was generated by breaking works. The contractor had promised to complete the semi-enclosure by October 2020. The details shall be referred to CIR-N112	Closed
455	18-Aug-20	Dates on/before 1-Aug-20 / Lam Tin Tunnel	Resident from Yau Lai Estate	Noise	Noise nuisance from tunnel works	Y	Breaking had been conducted during the time of complaint. The details shall be referred to CIR-N111	Closed
454	11-Aug-20	2-Aug-20 / Sea outside Ocean Shores	Resident from Ocean Shores	Operation Hours	Working on restricted hours and public holiday	Ν	The working barge was believed to be working under the Cross Bay Link project. None of the barges working on the time of complaint belongs to TKOLTT project. Despite works had been conducted, no PME was turned on during the time of complaint. The details shall be referred to CIR-O4.	Closed
453	3-Aug-20	3-Aug-20 / Western Marine Works Area	Resident from Ocean Shores	Water	Suspected muddy water and worn out silt curtain	Ν	The suspected muddy water was due to the strong tidal movement under typhoon influence. The silt curtain was not deployed properly when the typhoon was landed. Details shall be referred to CIR-W15	Closed
452	1-Aug-20	31-Jul-20 / Marine Works Area	Resident from Ocean Shores	Noise	Squeaky noise during nighttime	Y	The noise was originated from the wires that used for tightening the barge. The Contractor had not fasten the wire completely as strong wave and wind actionmay tear up the wire and made the barge stranded. The details shall be referred to CIR-N110.	Closed
451	28-Jul-20	28-Jul-20 / Portion IX	Resident from Ocean Shores	Noise	Breaking noise on the morning	Y	Breaking had been conducted during the time of complaint. The details shall be referred to CIR-N109	Closed
450	23-Jul-20 24-Jul-20	23&24-Jul-20 / Works area nearby Ocean Shores	Residents from Ocean Shores	Noise	Noise nuisance on weekdays	Y	The noise nuisance was originated from high-noise level works such as breaking and drilling. The details shall be referred to CIR-N108	Closed
449	16-Jul-20	12-Jul-20 / Lam Tin Tunnel	Resident of Hong Pak Court	Noise	Noise Nuisance Suspected from Tunnel (C1)	Y	Breaking work was conducted near the underground of Hong Pak Court. No non-conformance of CNP was identified, contractor is reminded to strictly follow the conditions of CNP and the time period of CNP. The details shall be referred to CIR-N110.	Closed
448	4-Jul-20	4-Jul-20 noon / Marine works area nearby Ocean Shores	Resident of Ocean Shores	Air	Dark Smoke Emission from Barge	Ν	The dark smoke was originated from the barge. It is common that dark smoke will be released when the barge's engine was starting. The details shall be referred to CIR-A18.	Closed
447C	10-Jul-20	28-Jun-2020 / TKO South open sea		Water	Suspected oil leakage at the TKO south open sea	Ν	See complaint #447A.	Closed
447B	10-Jul-20	29-Jun-2020 / TKO south open sea & flyover towards TKO Chinese Permanent Cemetery	Anonymous	Water / Noise	Suspected muddy water spillage and noise nuisance due to speeding	Ν	See complaint #447A.	Closed
447A	10-Jul-20	24-Jun-2020 / Non- specific		Noise	Long-term noise nuisance and insufficient noise mitigation measures	Y	The suspected oil leakage was believed to be an algae bloom over the whole bay area. The noise nuisance from speeding was considered not project related. The details shall be referred to CIR-C37	Closed
446	12-Jun-20	31-May-2020 / Area nearby Yau Lai Est	Resident of Yau Lai Estate	Noise	Noise nuisance at Morning nearby East Habour Crossing	Y	See complaint #442.	Closed
445	11-Jun-20	11-Jun-20 / Park Central	Resident of Park Central	Air	Pungent smell suspected coming from the work sites	Ν	See complaint #443B.	Closed
444	6-Jun-20	6-Jun-20 / Portion IX	Residents of Ocean Shores	Water	Flooding within work site and suspected muddy water spillage after downpour	Ν	The flooding is a normal phenonmenon as the site boundary have been embarked. The suspected muddy water is wide-spread among the open sea at TKO south and no exceedance of SS were recordede after the incident. The complaint is considered non-project-related and details shall be referred to CIR-W14.	Closed
443B		×			Odour nuisance nearby TKO MTR Station	Ν	The preliminary result showed no direct relationship between the nuisance and the construction works. The details shall be referred to CIR-A17.	Closed
443A	6-May-20	Non-specific	Anonymous	Air/Noise	Noise nuisance at Night and Air Quality Impact from Works	Y	The complaint is considered non-project-related. There is no direct evidence showing the project site is the origin of the nuisance. The details shall be refered to CIR-C36	Closed
442	22-May-20	22-May-20 / LT Tunnel	Resident from Hong Pak Court	Noise	Noise nuisance from Tunnel Works	Y	The noise is believed to be breakin inside the tunnel. The CNP was compiled with and contractor is reminded to review breaking schedule to less sensitive hour. The details shall refer to CIR-N105.	Closed
441	8&9-Apr-20	9-Apr-20 / TKO surcharge area	Residents of Ocean Shores	Air/Noise	Noise Nuisance on early morning and Air Quality Works from Excavation Works	Y	The work schedule of C2 had been reviewed. The "beeping" noise is originated from C2 due to safety issue (for mobilization of materials with crane). The noise nuisance is believed to be coming from the vibration hammer. The Contractor had water the exposed area regular to reduce dust impact to the surrounding. The details shall be referred to CIR-C35	Closed

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440	13&17-May-20	13-May-2020/Surcharge Area of TKO	Residents of Ocean Shores	Noise	Noise generation in early mornings of early May	Y	The work schedule of C2. C3 & C6 had been reviewed. The noise source is believed to be generated from C2 due to sheet-piling. The details shall be referred to CIR-N104.	Closed
439	7-Apr-20 & 24- Apr-20	April 2020 / Works area near Park Central (non- specific)	Residents of Park Central	Odour	Continuous diesel fuel odour nuisance near Park Central	Ν	No direct evidence proved that the odour source was originated from the work sites of TKOLTT. The details shall be referred to CIR-A16.	Closed
438	18-Apr-20	18-Apr-20 / Marine Works Area at TKO	Residents of Ocean Shores	Noise/ Light	Blasting, High Frequency Noise and Light in Tseung Kwan O	Y	The complaint was valid in regard of noise. Blasting had been carried out during the midnight and the Contractor is reminded to strictl follow requirements of CNP. The light source was originated from the construction vessels due to safety reason and guard watching. Details shall be referred to CIR-C34.	Closed
437	27-Mar-20	27-Mar-2020 / Surcharge Area (C2)	Resident of Ocean Shores	Noise	Low Frequency Noise during Midnight	Y	The noise source was the malfunctioned dewatering pumps. The details shall be referred to CIR-N103	Closed
436	26-Mar-20	26-Mar-20/ Portion IVC	District Council Member (Mr. Wong)	Noise	Noise nuisance, vibration and spectedly insufficient mitigation measures in Lam Tin	Y	See complaint #431	Closed
435	23-Mar-20	23-Mar-20/ Lam Tin Tunnel	Resident of Cha Kwo Ling Village	Noise	Groundborne Noise from Blasting in the Evening	Y	Blasting was conducted at the time of complaint. The vibration monitoring conducted near Tin Hau Temple was considered the vibration level was acceptable. The details shall be referred to CIR-N102.	Closed
434	23-Mar-20	20-Mar-20/ Lam Tin	District Council Member (Mr. Wong)	Noise	Noise nuisance from Construction Works during Holiday	Y	See compliant #427.	Closed
433	20-Mar-20	20-Mar-20/ Lam Tin	Resident of Hong Pak Court	Noise	Noise nuisance, vibration and suspectedly insufficient mitigation measures in Lam Tin	Y	See complaint #431	Closed
432	18-Mar-20	18-Mar-20 / Portion IVC	Resident of Yau Lai Estate	Noise	Noise nuisance, vibration and suspectedly insufficient mitigation measures in Lam Tin	Y	See complaint #431	Closed
431	14-Mar-20	14-Mar-20 / Portion IVC	Residents of Yau Lai Estate	Noise	Noise nuisance, vibration and suspectedly insufficient mitigation measures in Lam Tin	Y	The time period and PMEs of major works conducted during daytime of the complaints, no non-compliance in CNMP and during site audits has been recorded. The Contractor is recommended to provide alternative noise mitigation measures such as acoustic box for noisy PMEs and regularly repair materials of the noise mitigation measures. Details shall be referred to CIR-N101.	Closed
430	17-Mar-20	17-Mar-20 / Surcharge Area / C2	Anonymous	Water	Muddy Water at the Surcharge Area	Ν	The "muddy water" was created by the tug boat's screw propeller. The Contractor claimed the propeller stirred up seedbed sediment and generated "muddy water". The details shall be referred to CIR-W13.	Closed
429	10-Mar-20	10-Mar-20 / Site Nearby Park Central	Resident of Park Central	Noise	Noise nuisance in early morning (Mar 2020)	Y	No construction works had been conducted at the time of complaint for C3 and the major works area in C2 was at least 300m away from the complainant. It is believed that the major noise source was coming from ASD's work site. The details shall be referred to CIR-N100	Closed
428	4-Mar-20	Not Specified / Tseung Kwan O	Mr. Lui, Sai Kung District Council	Odour / Noise	Odour and low frequency noise nuisance from construction site	Y	Only minor works had been conducted at the time of complaint. No direct evidence showed that the odour source was originated from C3. The suspected nuisance source is believed to be ASD's works area. The details shall be referred to CIR-C33	Closed
427	1-Mar-20	1-Mar-20 / Portion IVC	Resident of Yung Kai House	Noise	Noise nuisance from Construction Works during Holiday	Y	No construction works were conducted at the concerned locations and no direct evidence showing the complaint is project-related. The details shall be referred to CIR-N99	Closed
426	19-Feb-20	11-Feb-20 / Works area outside TKL Sports Centre	Anonymous		Noise nuisance from breaking works	Y	Refer to complaint #423 and #424.	Closed
425	18-Feb-20	29-Jan-2020 / Marine works Area	Mr. Chan from Ocean Shore		Noise nuisance from barge in morning	Y	No works had been conducted in the time period of complaint. The noise is believed to be non-project- related. The details shall be referred to CIR-N95.	Closed
424	11-Feb-20	8 and 11-Feb-2020 / Site near TKL Station	Resident of Park	Noise	Noise nuicence from breaking	Y	The complaint was valid and the contractor had been operating only 1 breaker at a time. The contractor is suggested to further increase the mitigation measures to reduce impact to the surrounding neighborhood. The	Closed
423	3-Feb-20	03-Feb-2020 / Site Near TKL Station	Central		Noise nuisance from breaking works	Y	suggested to further increase the mitigation measures to reduce impact to the surrounding neighborhood. The details shall be referred to CIR-N97	Closed
422	3-Feb-20	2-Feb-20 / Lam Tin Interchange	Resident of Cheuk Lai House, Yau Lai Estate		Noise nuisance suspected to be related to works involving metal hammering on Site near EHC	Y	No construction activities were conducted at the concerned locations during the period of complaint. The Contractor is reminded to keep conducting good site practice and strictly follows the requirements of approved CNP. The details shall be referred to CIR-N98	Closed
421	21-Jan-20	21-Jan-20 / Portion IX	Ocean Shores Residents		Noise nuisance due to Blasting at midnight	Y	Blasting was conducted around 1:30am due to the vicinity of the Railway protection zone of MTR. The Contractor is reminded to keep the blast door closed during blasting to minimize noise impacts and re-schedule blasting to less sensitive hours as far as practicable. The details shall be referred to CIR-N96.	Closed

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420	7-Jan-20	7-Jan-20 / Portion IX	Ocean Shores Residents		Irritating loud noise nuisance from Portion IX (C2)	Y	See complaint #417	Closed
419	7-Jan-20	Sundays before 7-Jan-20 / Tunnel Works	Resident of Hong Pak Court	Noise	Noise nuisance from Tunnel Works	Y	See Complaint #416.	Closed
418	7-Jan-20	5-6-Jan-20 / C1 Marine Works Area	Ocean Shores Residents		High-frequency noise during night- time	Y	The high frequency noise was believe to be noise emitted from the marine works area of C1. The details shall be referred to CIR-N94.	Closed
417	3-Jan-20	2-Jan-20 / Portion IX	Former District Member (Mr. Chan)		Annoying noise emission and inefficient noise mitigation measures	Y	The noise source is believed to come from a breaker and mitigation was insufficient. The Contractor was requested to strictly follow the Noise Mitigation Plan. The details shall be referred to CIR-N93.	Closed
416	29-Dec-19	29-Dec-19 / Non-specific	Resident of Hong Pak Court	Noise	Groundborne Noise from Works area	Y	Project-related with valid CNP. Contractor is reminded to reduce noise emission and prevent breaking and noisy activities during restricted hours. The details shall be referred to CIR-N92.	Closed
415	27-Dec-19	25-Dec-19 / Lam Tin Interchange (Portion IVC)	Resident of Yau Estate	Noise	Noise nuisance from Portion IVC	Y	Non project-related due to maintenance works of East Cross-harbor Tunnel. The details shall be referred to CIR-N91.	Closed
414	24-Dec-19	22-Dec-19 / Lam Tin Interchange (Portion IVC)	Resident of Yau Estate	Noise	Piling noise nuisance near Lam Tin Interchange	Y	Project-related with valid CNP. Contractor is reminded to reduce noise emission and prevent breaking and noisy activities during restricted hours. The details shall be referred to CIR-N91.	Closed
413	24-Dec-19	24-Dec-19 / Portion IX of Contract 2	Resident of Capri & Ocean Shores	Noise	Loud and continuous noise emission from Portion IX	Y	No breaking activity was conducted by the C3. It was believed that C2 was the major noise source and the mitigation measures were insufficient. The details shall be referred to CIR-C32.	Closed
412	19-Dec-19	14-Dec-19 / marine works area	Resident of Ocean Shores	Noise	Noise nuisance from the marine works area	Y	The major construction work was driven by pin piles. The noise emitted due to the construction activities is considered to be reduced to an acceptable level as no NSR falls under the ambit of 300m study area of the work site. Details should be referred to CIR-N90.	Closed
411	2-Dec-19	30-Nov-19 / Construction Sites Outside TKL Sports Center	Resident of Park Central	Air / Noise	Non-effective noise mitigation measures and related dust and noise nuisance	Y	The construction noise created by breaking works are considered non-project related due to the large separation distance between noise source and the Complainant's Location. Major dust emission from the works area next to C3 was recorded. The Contractor is reminded to provide regular watering to dusty works. Details should be referred to CIR-C31.	Closed
410	28-Nov-19	25-Nov-19 / Portion 4C	Anonymous	Noise	Noise nuisance from Lam Tin Works Area and operation hours	Y	Refer to Complaint #408	Closed
409	27-Nov-19	20&27-Nov-19 / Construction Sites near Po Yap Road & Chui Ling Road	Resident of Park Central	Air / Noise	Dust emission due to excavation works and noise nuisance from Piling works	Y	Although noise barrier had been erected and around the breakers, the direct line of sight to the NSRs at Park Central could not be totally blocked. The Contractor is recommended to provide cantilevered noise barrier with noise absorbing materials to minimise noise impact as far as practicable. Details should be referred to CIR-C31.	Closed
408	25-Nov-19	Non-specific (Nov-19) / Portion 4C	Resident of Yau Lai Estate	Noise	Serious Noise Nuisance from Lam Tin Works Area	Y	Despite the Contractor had applied different noise mitigation measures (e.g. semi enclosure and noise barrier). Environmental deficiency was observed during site audit session. The Contractor is recommended to apply alternative noise mitigation measures to improve the situation. The details shall be refer to CIR-N89.	Closed
407	12-Nov-19	Non-specific (Nov-19) / LT Construction Site	Non- specified(Complainan t has previously made complaints on LTI)	Operation Hours	Inquiries on operating hours & Noise Nuisance	Ν	The time of complaint falls under day-time. According to the Contractor and RE, the general starting time of construction works are 08:15 on normal week days. The Contractor had avoid conduct noisy works on morning to minimize noise impacts for the nearby residents. The details shall be refer to CIR-O3	Closed
406	5-Nov-19	5-Nov-19 / Tunnel near TKO	District Council Member (Mr. Chan)	Noise	Noise nuisance from Blasting activities during night-time	Y	No blasting was carried out on that night. The construction activities were conducted inside the tunnel with the blast door closed. The CNP that the Contractor held remained valid during the time of complaint. The details shall be refer to CIR-N88	Closed
405	29-Oct-19	17-Oct-2019 / Marine Works area near Ocean Shore	District Council Member (Mr. Chan)	Noise	Daytime times noise nuisance	Y	The complaint details does not tally up with the information provided with the Contractor and RE. Referring to the Contractor, there was construction works was starting at 09:00. Noise mitigation measures, such as acoustic mats, were applied to minimize noise impact. The details shall be refer to CIR-N87	Closed
404	15-Oct-19	12-Oct-19 / Marine Works area near Ocean Shore	Residents of Ocean Shores	Noise / Working Hours	Noise nuisance due to operation of barge on Saturday early morning	Y	The time of complaint falls within daytime and the major works conducted are dredging and reclamation. The contractor did not require any extra mitigation measures. The contractor had applied sound-proofing mat on the engine floor of the barges and is recommended to strictly follow the requirements of noise mitigation plan. The details shall be refer to CIR-N86	Closed
403	15-Oct-19	Oct-19 (Not Specified) / C2 Construction Site	Residents of Ocean Shores	Noise / Working Hours	Operation of marine construction works during late hours	Y	The major construction works is trimming works for the rock mount during the time period of complaint. Mitigation measures provided by the Contractor included provision of noise insulating mats to the engine floor of the barges and shorten the work hours by ending construction works on or before 21:00 since early Oct 2019. Details shall be referred to CIR-N85.	Closed

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
402	10-Oct-19	09-Oct-2019/ Site near TKO CPC	Residents of Ocean Shores	Noise	Noise nuisance of construction works at marine work area during early morning	Y	No construction activity at both the Cavern near the BCMCP Bridge and Platform 1B, including the barge, in particular during the complaint period between 2am and 3am on 9 Oct 2019. Since no works had conducted during the time of complaint, no mitigation measures are required. The details shall be referred to CIR-N84.	Closed
401	5-Oct-19	05-Oct-2019 / C2 Portion IX	District Council Member (Mr. Chan)	Noise	High noise level from works area during daytime	Y	The time period of complaint falls under day-time and therefore the Contractor is required to carry out mitigation measures according to the latest CNMP only. The construction activities had been reviewed and no non-compliance was identified. No Limit Level of Exceedance at daytime was recorded during October 2019. For mitigation measures, the Contractor had set up sound-proofing mats and SlientUp to reduce noise impact. The details shall be refer to CIR-N83.	Closed
400	16-Sep-19	10-Sep-19 / TKO Marine Works Area	District Council Member (Mr. Chan)	Water	Muddy water discharge and deficiency in water quality mitigation measures	N	With accordance to the Contractor and RE, the silt curtains were deployed regarding to SCDP ver. 8 since 10- Sep-19, site inspection on 12-Sep-19 also showed the silt curtains were deployed properly. Despite there are chances of accidental muddy water discharge due to the removal of cofferdam on 13-Sep-19, local silt curtain had been place in order to minimize the unavoidable impact by related loading and unloading of fill materials. No muddy water had been observed outside the silt curtain area. Nevertheless, the Contractor is recommend to expand the coverage of the local silt curtain in order to well-confine the muddy water released from the grab. On top of that, the Contractor shall always follow the SCDP to ensure the minimization of impacts. Details should be referred to CIR-C30.	Closed
399	16-Sep-19	16-Sep-19 (Not Specified) / LT Interchange Potion III	Resident of Bik Lai House, Yau Lai Estate	Noise	Noise emission from the tunnel entrance (Potion III)	Y	No construction works was carried out during the time of complaint. Details should be referred to CIR-N82.	Closed
398	16-Sep-19	13-Sep-19 / Works Area of LT-TKO Tunnel outside Tiu King Leng MTR Station	Anonymous	Air / Water	Dark smoke emission and muddy water discharge from the marine work vessels near shore	Ν	No dark smoke emission was observed during the site inspection conducted in the week of the complaint. The Contractor has applied an air filtering tank to clean the exhaust from the barge before emission. Details should be referred to CIR-C30.	Closed
397	6-Sep-19	30 Aug-19 / Works area near Ocean Shores	Resident of Ocean Shores	Noise / Working hours	Noise emitted from Barge during Evening times	Y	The unloading works had been reviewed and no limit level of exceedance were recorded during August to early September. Since the period of complaint falls under evening times, no mitigation measures were required by the CNP. Details should be referred to CIR-N81.	Closed
396	6-Sep-19	30 Aug-19 / Works area near Ocean Shores	Resident	Noise	Noise nuisance from LT-TKO Tunnel	Y		Closed
395	6-Sep-19	31 Aug-19 / Works area near Ocean Shores	District Council Member (Mr. Chan)	Noise	Noise Nuisance during evening and night times	Y	The major works conducted were shortcreting, mucking out, maintaining, drilling and unloading. No limit level of exceedance in the restricted hours (19:00-23:00) between late August and early September were	Closed
394	6-Sep-19	Not specified (Sep-19) / Works area near Ocean Shores	Anonymous	Noise / Operating Hours	Noise nuisance during Evening & occasionally in Night time	Y	recorded. The Contractor is recommended to keep following noise mitigation plan to minimize noise nuisance. Details should be referred to CIR-N80.	Closed
393	30-Aug-19	30 Aug-19 / Marine works Area	District Council Member (Mr. Chan)	Water	Alleged muddy water discharge	Ν	High rainfall was recorded during period of complaint, therefore muddy water discharge at outfall from upstream and some surface runoff within the site is expected. However, no major silt curtain deficiency was observed during on-site observation and no leakage of muddy water from the marine works area was observed. Details should be referred to CIR-W12.	Closed
392	29-Aug-19	20-27 Aug-19/ Portion 4C	Resident of Bik Lai House, Yau Lai Estate	Noise	Noise nuisance from the operation of heavy machineries and missing of noise mitigation measures at Portion 4C	Y	A noise insulating cover was erected before the period of complaint, however, due to restricted site condition in the relocated breaking works area, the erection of the cover could not be carried out. Nevertheless, movable noise barriers and local semi-enclosure was adopted for breaking works. Details should be referred to CIR-N79.	Closed
391	26-Aug-19	10-Jul-19 / Construction site near Ocean shore	District Council Member (Mr. Chan)	Noise	Operation of construction works during late hours	Y	1 derrick barge was operated during the period of complaint with valid CNP. Regular maintenance and checking should be conducted for all operating barges. Details should be referred to CIR-N78.	Closed
390	26-Aug-19	31-Jul-19 / Construction site near Ocean shore	District Council Member (Mr. Chan)	Noise	Intermittent noise emitted from collision during night-time	Y	The noise source is suspected to be the collision between cofferdam and its broken part as the cofferdam was found damaged next morning. No construction was conducted at night time of 31 July. The contractor is recommended to maintain and check cofferdam regularly. Details should be referred to CIR-N77.	Closed
389	29-Jul-19	17 to 24-Jul-19 / Marine Construction Site near O King Road	Resident of Ocean Shore	Noise	Noise nuisance from the barge operating in reclamation works area near O King Road during evening times.	Y	l derrick barge was operated during the period of complaint with valid CNP. Regular maintenance should be provided for all operating barges. Details shall refer to CIR-N76.	Closed
388	12-Jul-19	8-Jul-19 / Construction Site near Ocean Shores	District Council Member (Mr. Chan)	Noise	Noise nuisance and inadequate noise barrier at the construction site near Ocean shore	Y	Although Contractor has adopted a noise mitigation measure of drill rigs at Portion IV near Ocean Shore such as noise barrier with sound insulating fabric, the existing noise barrier in Portion IX and some in Portion IV are not adequate in screening the direct line of sight to Ocean Shore. Details should be referred to CIR-N75.	Closed

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387	12-Jul-19	8 to 12-Jul-19 / Portion 4C of C1 Construction Site	Resident of Bik Lai House	Noise	Breaking noise emitted from the operation of 2 PMEs at Portion 4C during weekday daytime.	Y	Two breakers were operated intermittently at the Portion 4C of C1 construction site during the period of complaint between 07:00 to 19:00. As observed during the site inspection/noise monitoring, movable noise barrier could not completely screen off the direct line-of-sight from PMEs to Yau Lai Estate. Contractor has adopted mitigation measure to minimize the noise impact from breakers including using a noise barrier with noise insulating fabric, adopted a less noisy hydraulic spiting method for breaking works and has been developing a semi-enclosure noise barrier to replace the existing movable noise barrier. Details should be referred to CIR-N74.	Closed
386	10-Jul-19	9 to 10-Jul-19 / Not Specific	District Council Member (Mr. Chan)	Noise	Noise nuisance and disturbance from the TKOLT tunnel construction site involves intermittent noise emitted from collision during night-time.	Y	No construction works was carried out during the time of complaint. Details should be referred to CIR-N73.	Closed
385	4-Jul-19	Late Jun-19 to 4-Jul-19 / Reclamation Area	Resident of Ocean Shore	Noise	The reclamation works continued into the evening during weekdays and works were also operated on Sunday.	Y	See Complaint no 384.	Closed
384	3-Jul-19	3-Jul-19 / Near Ocean Shore	District Council	Noise	The construction site was constantly emitting metallic percussion noise in the early morning.	Y	The concerned metallic percussion noise source was suspected from the collision between the detached sheet pile and the adjacent sheet pile of the broken cofferdam. The detached sheet pile was fixed by re-sealing it to the adjacent sheet pile. Details should be referred to CIR-N72.	Closed
383	29-Jun-19	Jun-19 / Lam Tin Interchange	Resident of Yau Lai Estate, Yung Lai House	Noise	Noise nuisance from construction works during weekday daytime and evening times. Noise barriers was found missing in certain parts of the construction areas.	Y	Some noise mitigation measures were observed during the site inspection including idle equipment were turned off and noise barrier has been erected close to noisy PMEs in the right direction facing Yau Lai Estate. However, the above mitigation measures were not applied to whole construction site such as noise barriers were not placed close enough to the noisy PMEs due to the uneven surface and other inconvenience. Details should be referred to CIR-N71.	Closed
382 (N08/RE/000110 19-19)	17-Jun-19	6-Jun-19 / Cofferdam area	District Council	Air	Dark smoke nuisance from the tug boat inside the cofferdam area.	Ν	During site audit, no violation of the Air Pollution Control (Smoke) Regulation from the construction site was observed by the ET. Air filter has been replaced on derrick barge to reduce the dark smoke emission upon the receipt of the complaint. The Contractor is recommended to replace the air filters regularly. Details should be referred to CIR-A15.	Closed
381 (N08/RE/000150 98-19)	11-Jun-19	1-Jun-19 / Near confferdam	District Council	Water	Muddy water discharge from construction site near the cofferdam area on 4 June 19	N	High volume of upstream muddy water was collected due high rainfall according to reports and observation. As a result, the muddy water from upstream was discharged into the Junk Bay via various outfalls in Junk Bay, as observed during the rainstorm events. No sand plume within the cofferdam area and no muddy water discharge at the designated discharge point within the Site was identified during the site inspection and water quality monitoring. Details should be referred to CIR-W11.	Closed
380	11-Jun-19	6-Jun-19 / Near Tong Yin Street	Resident of Ocean Shore	Air	Odour nuisance from construction site near Tong Yin Street	N	No oil leakage from mobile crane was observed during the site inspection in June 2019. According to the testing reports, all ULSD fuel applied in the PMEs during the construction period contains sulphur content lower than 0.005% by weight, which complied with the Air Pollution Control (Fuel Restriction) Regulations. Details should be referred to CIR-A14.	Closed
379	11-Jun-19	4-Jun-19 / Near cofferdam area	General Public	Water	Discharge of mud water into Junk Bay from TKOLT construction site	Ν	See Complaint no 381.	Closed
378	11-Jun-19	13-Apr-19 / Near cofferdam area	General Public	Air	Dark smoke nuisance from construction site involves derrick barge operation near cofferdam area (daytime)	Ν	No violation of the Air Pollution Control (Smoke) Regulation was recorded from the construction site was observed. The contractor was recommended to install carbon filter at smoke exhaust of the barge as a more effective mitigation measures. Details should be referred to CIR-C27.	Closed
377	11-Jun-19	2-Jun-19 / Lam Tin Interchange	General Public	Noise	Complaint about the noise nuisance from Lam Tin Interchange construction site in daytime holiday.	Y	Only drilling works inside the tunnel was conducted during daytime under valid CNP. Groundborne noise is considered as the major factor contributing to the noise nuisance, the Contractor are recommended to reschedule the drilling works inside the tunnel to less sensitive hours. Details should be referred to CIR-N70.	Closed
376	11-Jun-19	9-Jun-19 / Near Yau Lai Estate	Resident of Yau Lai Estate	Noise	Complaint about the noise nuisance near Yau Lai Estate involves vehicle movement (roller) during morning to 15:00 in holiday.	Y	No works involving roller was involved. Only drilling works inside the tunnel and ddismantling of crusher shelter was conducted during Sunday daytime under valid CNP. Groundborne noise is considered as the major factor contributing to the noise nuisance, the Contractor are recommended to re-schedule the drilling works inside the tunnel to less sensitive hours. Details should be referred to CIR-N70.	Closed
375	11-Jun-19	9-Jun-19 / Lam Tin Interchange	Resident of Yau Lai Estate	Noise	Complaint about the noise nuisance from Lam Tin Interchange construction site in daytime holiday.	Y	See Complaint no. 376.	Closed

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374	4-Jun-19	3-Jun-19 / Near Ping Tin Estate	Resident of Ping Sin House in Ping Tin Estate	Noise	Vibration from the construction of Lam Tin Interchange in evening time at around 20:00	Y	Groundborne noise is considered as the major factor contributing to the noise nuisance. The reverse circulation drilling works may have emitted groundborne noise, however, only 1 unit was used in Portion II. Therefore, blasting is considered as the major cause for the vibration. Details should be referred to CIR-N69.	Closed
373	4-Jun-19	2-Jun-19 / Near ocean Shore	Resident of Ocean Shore	Noise	Complaint about the noise nuisance from the construction site near Ocean Shore and the construction site operation in day time holiday.	Y	No construction activity was conducted at the time of complaint as confirmed by Engineer. Therefore, the noise nuisance was not due to the construction site. Details should be referred to CIR-N68.	Closed
372	4-Jun-19	1-Jun-19 / Near ocean Shore	Resident of Ocean Shore	Others	Complaint about the construction site operation in the early morning on Saturday.	Ν	See Complaint no. 373.	Closed
371	30-May-19	30-May-19 / Near Ocean Shore	Resident of Ocean Shore	Noise	Noise nuisance from construction site near Ocean Shore during night time.	Y	See Complaint no. 373.	Closed
370 (N08/RE/000150 98-19)	29-May-19	19 & 26-May-19 / Near Ocean Shore	Resident of Ocean Shore	Noise	Noise nuisance about dredging mud and loudspeaker in the construction site near Ocean Shore during daytime holiday.	Y	Noise barriers/ Noise absorptive materials have been used to mitigate the noise generated from the construction works. Only walkie-talkies were used for communication in the construction site. Details should be referred to CIR-N67.	Closed
369	13-May-19	Not specific / Lam Tin interchange	Resident of Yau Lai Estate	Noise	Noise nuisance from the blasting work inside tunnel which involves explosion noise impact during midnight	Y	Contractor has adopted a mitigation measure for reduce the blasting noise impact from the tunnel such as blasting doors and did not conduct blasting works during mid-night blasting since mid-May 2019. Details should be referred to CIR-N66.	Closed
368	19-May-19	19-May-19 / Near cofferdam area	General Public	Noise	Noise nuisance from barge with in cofferdam area in daytime holiday	Y	See Investigation / Mitigation Action for complaint no. 361.	Closed
367	5-May-19	5-May-19 / Lam Tin Tunnel - TKO entrance	Resident near Lam Tin Tunnel - TKO entrance	Noise & Air	Noise and air nuisance from construction near Lam Tin Tunnel - TKO entrance	Y	The major works during the period of complaint is scaling by breaker on day time holiday (Sunday). The works is compiled with CNP and no air quality action and noise limit level exceedance during the monitoring. Regarding the existing air quality mitigation measures, the water spray for the breaker was insufficient and the dust emission during unloading of dusty materials was observed. As the review of exiting noise mitigation measure, a broken noise SilentMat was found on the hammer of breaker. According to the above observation, Contractor has adopted serval improvement such as conduct a sufficient water spray during breaking and unloading materials, replaced the noise SilentMat of the breaker and placed the noise barrier between PME and NSRs. Details should be referred to CIR-C29.	Closed
366	4-May-19	4-May-19 / Lam Tin Interchange	Resident of Ping Tin Estate	Noise	Noise nuisance from construction of Lam Tin Interchange in daytime.	Y	Regarding the observation during site inspection, the hammer of the breaker was surrounded by a broken noise absorption material and a noise barrier of a driller was placed in the incorrect direction of NSRs. Contractor has improved the above mitigation measures including replaced the noise absorption materials and relocated the noise barrier to facing the NSRs. Details should be referred to CIR-N65.	Closed
365	1-May-19	1-May-19 / Lam Tin Interchange	Resident of Ping Tin Estate	Noise	Noise nuisance from construction of Lam Tin Interchange in daytime.	Y	See investigation / mitigation actions for Complaint No.366	Closed
364	1-May-19	1-May-19 / Lam Tin Interchange	Resident of Ping Tin Estate	Noise	Noise nuisance from construction of Lam Tin Interchange in daytime	Y	See investigation / mitigation actions for Complaint No.366	Closed
363	30-Apr-19	6th – 22th April -19 / Lam Tin Interchange	Resident of Ping Tin Estate	Noise	Noise nuisance from construction of Lam Tin Interchange in daytime and evening time	Y	See investigation / mitigation actions for Complaint No.366	Closed
362 (N08/RE/000133 96-19)	8-May-19	7-May-2019 / Junk Bay	District Council	Noise	Noise nuisance from marine works in the Junk Bay in the night-time (06:45)	Y	No marine works in the Junk Bay was conducted as confirmed by RE. No CCTV footage was recorded during the time of complaint. It was suggested that Contractor should conduct 24 hours CCTV monitoring. Details should be referred to CIR-N64.	Closed
361	7-May-19	28 Apr 2019 / Cofferdam Area	General Public	Noise	Noise nuisance from construction site at cofferdam area in holiday	Y	The reclamation works involves barges during the time of complaints has been compiled with the CNP. As review of existing mitigation measure, the sound proofing canvases for the barges were hanged up. Details should be referred to CIR-N63.	Closed
360	2-May-19	27-04-2019/ Construction in Tong Tin Street	General Public	Noise	The complaint about the noise nuisance from cofferdam area during daytime and evening-time.	Y	The light source was found from the lighting of derrick barge within the cofferdam area and the noise source was found from the barge during filling works. Contractor has adopted The sound proofing canvases for the derrick barge was hanged up but no light mitigation measure. Details should be referred to CIR-C28.	Closed

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359	30-Apr-19	30-04-2019/ Near Ocean Shore	Resident of Ocean Shore	Noise	The complaint about the noise nuisance involve percussion noise near Ocean Shore during daytime.	Y	See compliant #355.	Closed
358	30-Apr-19	27-04-2019/ Near cofferdam area	General Public	Noise	The complaint about the noise nuisance during evening time.	Y	See compliant #355.	Closed
357	23-Apr-19	20-04-2019/ Near cofferdam area	General Public	Noise	The complaint about the noise nuisance near cofferdam area during daytime.	Y	See compliant #355.	Closed
356	23-Apr-19	19-04-2019/ Near cofferdam area	General Public	Noise	The complaint about the noise nuisance near cofferdam area during holiday.	Y	See compliant #355.	Closed
355	17-Apr-19	17-04-2019/ Near cofferdam area	General Public	Noise & light	The complaint about the noise nuisance and light pollution near cofferdam area during evening-time.	Y	The light source was found from the lighting of derrick barge within the cofferdam area and the noise source was found from the barge during filling works. Contractor has adopted The sound proofing canvases for the derrick barge was hanged up but no light mitigation measure. Details should be referred to CIR-C28.	Closed
354	30-Apr-19	20 Apr 2019 / Cofferdam Area 19 Apr 2019 / Cofferdam Area 15 Apr 2019 / Cofferdam Area 07 Apr 2019 / Cofferdam Area 31 Mar 2019 / Cofferdam Area	Resident of Ocean Shore (Mr. Chan)	Others	The construction site near O King Road is operated in holiday during day-time and weekday during night- time.	N	The marine reclamation works at the Portion IX in C2 construction site was the major construction activity during the period of complaints. The concerned reclamation works is compiled with the relevant CNP. Details should be referred to CIR-O2.	Closed
353	13-Apr-19	13-04-2019/Cofferdam Area	Resident of Ocean Shore (Mr. Chan)	Air	According to the complainant, large amount of smoke and exhaust was seen emitting from barges working within the cofferdam	Ν	See Investigation / Mitigation Action for complaint no. 329.	Closed
352	13-Apr-19	13-04-2019/Cofferdam Area	Resident of Ocean Shore	Noise	The complainant complained about the noise nuisance from the cofferdam area in Tiu Keng Leng during day-time.	Y	The major works during the time of complaints was a crawler crane unloading H piles to the Portion V of C2 construction site. Noise barriers were erected between the crane and NSRs to reduce noise impact. Details	Closed
351	13-Apr-19	13-04-2019/Cofferdam Area	Resident of Ocean Shore	Noise	The complainant complained the noise nuisance from the cofferdam area in Tiu Keng Leng during day- time.	Y	should be referred to CIR-N62.	Closed
350	8-Apr-19	07 Apr 2019 / Cofferdam Area in TKO	-	Air & Others	The complainant complained the dark smoke generation and the construction works from the cofferdam area in Tiu Keng Leng during holiday.	N		Closed
349	7-Apr-19	07-04-2019/Cofferdam Area	Resident of Ocean Shore	Air	Dark smoke generation from the cofferdam area in Tiu Keng Leng during day-time.	Ν	See Investigation / Mitigation Action for complaint no. 329.	Closed
348	2-Apr-19	02 Apr 2019 / LTT-TKO	-	Others	The complainant complained the LTT construction site was working during holiday.	Ν		Closed
347	1-Apr-19	01 Apr 2019 / Cofferdam Area	Resident of Ocean Shore	Noise	Percussive noise from the cofferdam area in Tiu Keng Leng during day- time.	Y		Closed
346	31-Mar-19	31st March 2019 / Construction of Road P2	District Council	Others	Complaint about the construction site operation of Road P2 in day time holiday	Ν	A tug boat and a derrick barge were operated for the marine reclamation work within the cofferdam area during the time of complaint. As the review of relevant CNP, no violation was observed. Details should be referred to CIR-O1.	Closed
345	26-Mar-19	26th March 2019 / Construction of Road D4	Resident of Park Central	Noise	Complaint about the noise nuisance in day time.	Y	See Investigation / Mitigation Action for complaint no. 329.	Closed

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344	28-Mar-19	26th March 2019 / Construction of Road P2	District Council	Noise	Complaint letter received regarding noise nuisance and dark smoke generation from the marine barges	Y	See Investigation / Mitigation Action for complaint no. 378.	Closed
343	25-Mar-19	25th March 2019 / Construction of Road D4	Resident of Park Central	Noise	Complaint about the noise nuisance sound like a breaking works in day time.	Y	See Investigation / Mitigation Action for complaint no. 329.	Closed
342	25-Mar-19	24th March 2019 / Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complaint about the noise nuisance from the construction of Lam Tin Interchange in day time hoilday (Sunday). The noise monitoring was conducted in Hong Nga Court by staff after the complaint and the noise level is result in acceptable level, but the complainant replied that the noise monitoring is meaningless and the noise nuisance is not acceptable for her.	Y	See Investigation / Mitigation Action for complaint no. 330.	Closed
341	24-Mar-19	24th March 2019 / Lam Tin Interchange	Management Section of Hong Nga Court	Noise	Complaint about the noise nuisance from Lam Tin Tunnel construction works in day time.	Y	See Investigation / Mitigation Action for complaint no. 330.	Closed
340	24-Mar-19	24th March 2019 / Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complaint about the noise nuisance from the construction site day time holiday (Sunday).	Y	See Investigation / Mitigation Action for complaint no. 330.	Closed
339	21-Mar-19	21st March 2019 / Construction of Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complaint about the construction noise nuisance involving percussive noise in early morning (07:00)	Y	See Investigation / Mitigation Action for complaint no. 330.	Closed
338	21-Mar-19	21st March 2019 / Construction of Lam Tin Interchange	Resident of Ocean Shore	Noise	Construction noise	Y	See Investigation / Mitigation Action for complaint no. 323.	Closed
337	20-Mar-19	19th March 2019 / Construction of Road D4 and Footbridge between Tiu Keng Leng Sport Centre and Park Central	Resident of Park Central	Noise	Complaint about the noise nuisance from the construction vehicle near Park Central in night time.	Y	See Investigation / Mitigation Action for complaint no. 329.	Closed
336	20-Mar-19	20th March 2019 / Construction of Road P2	Resident of Park Central	Noise & Pest	Complaint about the noise and pest nuisance from the construction site near Park Central in evening time.	Y	See Investigation / Mitigation Action for complaint no. 329.	Closed
335	19-Mar-19	19th March 2019 / Construction of Road P2	Resident of Ocean Shore	Noise	Construction noise nuisance from reclamation works near the TKO- LTT reclamation site during the evening time (19:00-23:00).	Y	See Complaint #323.	Closed
334	19-Mar-19	19th March 2019 / Construction of Road P2	District Council	Noise	Construction noise nuisance from the TKO-LTT reclamation site during evening time (after 19:00).	Y	See Complaint #323.	Closed
333	19-Mar-19	18th - 19th March 2019 / Construction of Road P2	Resident of Ocean Shore	Noise	Construction noise nuisance from construction noise in evening time (around 20:30).	Y	See Complaint #323.	Closed
332	18-Mar-19	18th March 2019 / Construction of Lam Tin Interchange	Resident of Yau Lai Estate	Noise	Complaint about the noise nuisance during day time, evening time and night time.	Y		Closed
331	18-Mar-19	18th March 2019 / Construction of Lam Tin Interchange	Resident of Hong Pak Court	Noise	Complaint about the noise nuisance in night time and the past few days. (Before 07:00)	Y	The construction activities in the complaint dates are complied with CNP. No noise limited level exceedance was recorded. During the site inspection, no noise barriers were erected between noisy PMEs and NSRs at LTI. Regarding the observation in the inspection, Contractor has adopted an improvement such as placed the noise barriers between the PMEs and NSPs to reduce noise nuisance. Details should be referred to CIR-N61.	Closed
330	17-Mar-19	17th March 2019 / Construction of Lam Tin Interchange	General Public	Noise	Complaint about the noise nuisance from in night time holiday.	Y	noise parrets perween the Finles and NSFS to reduce noise nuisance. Details should be relefted to CIK-NOL.	Closed

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
329	15-Mar-19	15th March 2019 / Construction of Road D4	Resident of Park Central	Noise & Air	Complaint about the noise from the construction works and the odour nuisance involves engine oil from construction machine	Y	The construction activities in the complaint dates are compiled with the CNMP. No noise and air quality limit level exceedance were recorded. Contractor had implemented the mitigation measures for the noise and odour nuisances including acoustic mat was erected between the PME and NSR, ultra-low sulphur diesel was applied as fuel oil in PME and general refuses were disposed properly. Details should be referred to CIR- C26.	Closed
328	14-Mar-19	9th March 2019 / Construction Site of Footbridge between Tiu Keng Leng Sport Centre and Park Central	Resident of Park Central	Noise	Complaint about the noise nuisance involve drilling work in the day time (08:00).	Y	A formation works was conducted in 7 am to 7pm on 9 Mar 2019. No noise limit level exceedance was recorded in the nearest noise monitoring result. However, there was no any adoption of mitigation measure to minimize the noise nuisance from the site. As response the received complaint, the contractor should place the noise barrier between the PMEs and NSR. Details should be referred to CIR-N58.	Closed
327	13-Mar-19	13th March 2019 / Construction of Lam Tin Interchange	Resident of Bik Lai House	Noise	Noise nuisance suspected from the construction works involving chiseling during evening time (22:07).	Y	A handing processed rock at Lam Tin Interchange was conducted on the complaint date in 7 pm to 11 pm involving dump truck and excavator which construction activities was compiled with the CNP. No noise limit level exceedance was record in the evening time monitoring. However, the noise barrier was not placed in the direction of the Yau Lai Estate during breaking works, the contractor had implemented a mitigation measure such as placed the noise barrier to reduce noise level from the breaker but the noise barrier was far from the concerned breaker. Details should be referred to CIR-N59.	Closed
326	13-Mar-19	13th March 2019 / Construction of Road P2	Resident of Ocean Shore	Noise	Noise nuisance suspected from marine works near Ocean Shores in the day time (16:30)	Y	See Investigation / Mitigation Action for complaint no. 322.	Closed
325	9-Mar-19	9th March 2019 / Construction of Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complaint about the noise nuisance involve machine and percussive noise in night time (02:00 -03:00).	Y	Only drilling works were conducted inside the tunnel in early morning under valid CNP. Groundborne noise is considered as the factor that contributes to the noise nuisance. The Contractor is recommended to reschedule drilling works to less sensitive hours. Details should be referred to CIR-N56.	Closed
324	7-Mar-19	7th March 2019 / Construction of Lam Tin Interchange	Resident of Hong Pak Court	Noise	Complaint about the noise nuisance involving chiseling noise from the construction site near Hong Pak Court during day time and evening time in the past few months.	Y	Only drilling works were conducted inside the tunnel in early morning and daytime under valid CNP. Groundborne noise is considered as the factor that contributes to the noise nuisance. The Contractor is recommended to reschedule drilling works to less sensitive hours. Details should be referred to CIR-N56.	Closed
323 (EPD- N08/RE/000065 23-19)	4-Mar-19	4th March 2019/ Cofferdam Area	Resident of Ocean Shore	Noise	Construction noise (Evening time)	Y	Only 1 derrick barge and a tug boat was used in the evening time under valid CNP. No Limit Level Exceedances were recorded at Station CM6(A) during evening time. Acoustic mat should be used to screen the engine of the barge to reduce the noise nuisance from the reclamation works. Lubricants should be applied to the barge to reduce the noise emission during barge movement.	Closed
322	13-Mar-19	1st March 2019 / Construction of Road P2	Resident of Ocean Shore	Noise	Noise nuisance suspected from a yellow excavator near Ocean Shores in day time (15:44).	Y	No noise limit level exceedance was recorded and the number of operating PMEs complied with the CNMP. The sound proofing canvases were not always adopted as a mitigation measure to screen the noise emitted from the engine of the barge. Contractor should adopt the aforementioned mitigation measures as far as practicable. The contractor was also be recommended to enhance the mitigation measure including frequently checking the noise barriers/sound proofing canvases, frequent checking and repair the gaps or broken acoustic sheets and continue to strictly follow the requirements in the approved CNMP.	Closed
321	28-Feb-19	28th February 2019 / Construction of Lam Tin Interchange	Management Section of Yau Lai Estate	Noise	Construction noise (Night time)	Y	Only drilling works were conducted inside the tunnel in early morning under valid CNP. Groundborne noise is considered as the factor that contributes to the noise nuisance. The Contractor is recommended to reschedule drilling works to less sensitive hours. Details should be referred to CIR-N55.	Closed
320	22-Feb-19	22nd February 2019 / Construction of Lam Tin Interchange	Resident of Hong Pak Court	Noise	Complaint about the noise nuisance involving percussive noise in early morning (Day time). Complainant said the construction should be operated after 08:00.	Y	See Investigation / Mitigation Action for complaint no. 313.	Closed
319	21-Feb-19	21st February 2019 / Construction of Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complaint about the noise nuisance involving percussive noise in night time	Y	See Investigation / Mitigation Action for complaint no. 313.	Closed
318	21-Feb-19	21st February 2019 / Construction of Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complaint about the noise nuisance involving percussive noise from the construction in night time			Closed
317	25-Feb-19	23th February 2019 / Construction of Road P2	Resident in O King Road	Air	Complained about the odour nuisance of petroleum smell	N See Investigation/Mitigation Action on Complaint no.294. Details should be referred to CIR-A12.		Closed
316	18-Feb-19	18th February 2019 / Construction of Road P2	Resident in O King Road	Air	Complaint about the dark smoke and odour nuisances	Ν	See Investigation/ Mitigation Action on Complaint no.294. Details should be referred to CIR-A12.	Closed

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
315	17-Feb-19	15th February 2019 / Construction of Lam Tin Interchange, Road P2 and Tseung Kwan O Interchange	General Public	Noise	Complained about construction noise (Daytime)	Y	The metal wire used for anchoring the barge inside the cofferdam area are the source for the noise nuisance. Ropes were used to replace metal wire to reduce noise nuisance from metal collision while mooring boats. Details should be referred to CIR-N54.	Closed
314	17-Feb-19	16th February 2019 / Construction of Lam Tin Interchange	Resident of Yau Lai Estate	Air	Dust nuisance suspected from the construction works and absence of water spraying near Lam Tin Interchange in daytime.	Ν	No Air Quality action level or limit level exceedance during the monitoring conducted by ETL. Contractor had implemented mitigation measure to reduce and prevent dust emission including conducted water sprays and covered the cement bags. Details should be referred to CIR-A13.	Closed
313	17-Feb-19	17th February 2019 / Construction of Lam Tin Interchange	Resident of Hong Nga Court	Noise	Construction noise nuisance from the drilling and breaking works at Branch Tunnel in the morning (Day time)	Y	Breaking and drilling works were conducted during the time of complaint. The breakers were often seen wrapped with acoustic mat, however, they are easily damaged during the breaking works. Noise barrier are more effective in reducing the noise nuisance than the acoustic mat, but the erection of noise barrier are not often adopted properly to screen the noise from the NSR due to the additional works involved and the landform on site. Groundborne noise could also be a factor contributing to noise nuisance. Details should be referred to CIR-NS3.	Closed
312	16-Feb-19	16th February 2019 / Construction of Lam Tin Interchange	District Council	Noise	Complained about the explosion noise (Daytime)	Y	No exceedances were recorded and recommendation were made to further enhance the mitigation measures, such as regularly and reviewing the noise control activities that are being carried out on site regularly to ensure compliance with statutory requirement, provide training for the workers to prevent unnecessary noise disturbance and frequently check and maintain the absorptive lining adhered on blasting doors on a regular basis.	Closed
311	15-Feb-19	15th February 2019 / Construction of Lam Tin Interchange	Public	Noise	Complained about the explosion noise (Daytime)	Y	See Investigation / Mitigation Action for complaint no. 312.	Closed
310	14-Feb-19	14th February 2019 / Construction of Lam Tin Interchange	Resident of Yau Lai Estate	Noise	Construction noise nuisance about the rock handling work at LTI (Daytime)	Y	Dump truck and excavator was used to transfer crushed rocks from the crusher with valid CNP. Additional noise barrier was added at the site boundary near Shun Lai house, Yau Lai Estate to reduce the direct-line of	Closed
309	13-Feb-19	13th February 2019 / Construction of Lam Tin Interchange	Resident of Yau Lai Estate	Noise	Construction noise nuisance about the rock handling work at LTI (evening time)	Y	sight from the NSRs to the site. Details should be referred to the CIR-N51.	Closed
308	13-Feb-19	1th - 13th February 2019 / Construction of works at the TKO-Lam Tin tunnel	Management Section of Kwong Tin Estate	Noise	Complaint about construction noise (Night time)	Y	See Investigation/ Mitigation Action on Complaint no.302. Details should be referred to CIR-N48.	Closed
307	13-Feb-19	13th February 2019 / Construction at Tsueng Kwan O (C1)	Resident of Ocean Shore	Noise	The complaint about the noise nuisance in day time	Y	Noise nuisance was originated from the beeping noise emitted during vehicle reversing of the loader. The total length of beeping noise should be less than 5 mins. The reverse alarm system is a necessary safety measure that cannot be revoked. Details should be referred to CIR-N50.	Closed
306	13-Feb-19	13th February 2019 / Construction of works at the TKO-Lam Tin tunnel	Resident of Hong Nga Court	Noise	Noise nuisance suspected from the construction works involving chiseling noise in night time	Y	See Investigation/Mitigation Action on Complaint no.302. Details should be referred to CIR-N48.	Closed
305	12-Feb-19	12th February 2019 / Construction of works at the TKO-Lam Tin tunnel	Resident of Hong Nga Court	Noise	Noise nuisance suspected from the construction works involving chiseling noise in night time.	Y	See Investigation/Mitigation Action on Complaint no.302. Details should be referred to CIR-N48.	Closed
304	8-Feb-19	8th February 2019 / Construction of Road P2 and Associated Works	Resident of Ocean Shore	Noise	Noise nuisance suspected from marine works near Ocean Shores in the day time	Y	There were two construction activities in the site including dredging and trimming in day time on 8 Feb 2019. Details should be referred to CIR-N49.	Closed
303	2-Feb-19	27th January - 2nd February 2019 / Construction of works at the TKO-Lam Tin tunnel	Resident of Ping Tin Estate	Noise	Noise nuisance suspected from the construction works involving chiseling noise during day time, evening time and night time.	Y	Project-related. The following recommendations were made to further enhance the mitigation measures: Frequent checking and repair the gaps or broken acoustic sheets; Replace any broken SilentMat for wrapping the breaker head;	Closed
302	2-Feb-19	27th January - 2nd February 2019 / Construction of works at the TKO-Lam Tin tunnel	Resident of Hong Pak Court	Noise	Noise nuisance suspected from the construction works involving chiseling noise during day time	Y	 To adopt Cantilever noise barriers at Lam Tin Interchange to screen noise effectively; The deployment of Cantilever noise barrier should screen the line-of-sight from sensitive receivers; To continue to strictly follow the requirements in the approved CNMP; To conduct an ad hoc ground-borne noise monitoring with the coordination of the Engineer; and 	Closed
301	31 Jan 2019	27th - 31th January 2019 / Construction of Lam Tin Interchange	Management Section of Hong Nga Court	Noise	Noise nuisance suspected from the	Y	See Investigation/Mitigation Action on Complaint no.290. Details should be referred to CIR-N45.	Closed

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
300	30 Jan 2019	30th January 2019 / Construction Site of Footbridge between Tiu Keng Leng Sport Centre and Park Central	Resident of Park Central	Noise	Beeping Noise nuisance suspected from the construction works involving mobile crane	Y	See investigation / Mitigation Action for complaint no. 296. Details should be referred to CIR-N47.	Closed
299	30 Jan 2019	27th - 29th January 2019 / Construction Site of Footbridge between Tiu Keng Leng Sport Centre and Park Central	Resident of Park Central	Noise	Beeping Noise nuisance suspected from the construction works involving mobile crane and also suspected from elevation platform	Y	See investigation / Mitigation Action for complaint no. 296. Details should be referred to CIR-N47.	Closed
298	30 Jan 2019	Not specific / Near Po Shun Road	Resident of Park Central	Noise & Air Quality	The dust generation and noise nuisance from the construction site near Po Shun Road	Y	There were several construction activities in the site including the removal of steel mould & scaffolding of bridge deck, erection of scaffolding for staircase and construction of Pour 1 of main deck (GL4-5) during time of complaint. Details should be referred to CIR-C25.	Closed
297	30 Jan 2019	27 th - 30th January 2019 / Construction works at TKO-Lam Tin tunnel	Resident of Hong Nga Court	Noise	Noise nuisance suspected from the construction involving chiselling works	Y	See Investigation/ Mitigation Action on Complaint no.290. Details should be referred to CIR-N45.	Closed
296	29 Jan 2019	27th - 29th January 2019 / Construction Site of Footbridge near Tiu Keng Leng Sport Centre.	Resident of Park Central	Noise	Beeping Noise nuisance suspected from the mobile crane at the Footbridge near Park Central Block 6	Y	Project-related. The following recommendations were made to further enhance the mitigation measures: To arrange a signalman instead of mobile crane reversing signal for minimize the beeping noise disturbance; Frequent checking and repair the operating PME; The deployment of Cantilever noise barrier should screen the line-of-sight from sensitive receivers; To continue to strictly follow the requirements in the approved CNMP; To ensure noise barrier and sound proofing canvases wrapped on PME are intact and in good condition.	Closed
295	29 Jan 2019	29th January 2019 / Construction of Road P2	Resident of Ocean Shore	Noise	Complaint about the noise nuisance from the steel cable wire for anchoring between barge and pier	Y	There was a salvage works for the sunken barge (CS306) in a whole day on 27 Jan, 12 am to 3 pm on 28 Jan and 11:40 am on 29 Jan 2019. Details should be referred to CIR-N46.	Closed
294	29 Jan 2019	29th January 2019 / Construction of Road P2	Resident in O King Road	Air Quality	Complaint about the dark smoke and odour nuisances from barge.	Y	The sulphur content percentage of the adopted diesel fuel was lower than 0.05% which is compiled with the Hong Kong Air Pollution Control (Marine Light Diesel) Regulation, therefore the odour problem should be minimised. Smoke filtering tanks were adopted on deck level of derrick barges to reduce emission of dark smoke and exhaust smell. The situation has improved after the filter has been replaced. Details should be referred to CIR-A12.	Closed
293 (EPD- K15/RE/000032 91-19)	29 Jan 2019	29th January 2019 / Construction of Lam Tin Interchange	Cha Kwo Ling Tsuen	Noise & Air Quality	Complained about construction noise & dust (Day & Night time)	Y	See investigation / Mitigation Action for complaint no. 270. Details should be referred to CIR-C29.	Closed
292	29 Jan 2019	29th January 2019 / Construction of Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complained about the construction noise from breaking work.	Y	Project-related. The following recommendations were made to further enhance the mitigation measures: To arrange a signalman instead of mobile crane reversing signal for minimize the beeping noise	Closed
291	29 Jan 2019	29th January 2019 / Construction of Lam Tin Interchange	Resident of Hong Pak Court	Noise	Complained about the construction noise from breaking work.	Y	☐ The deployment of Cantilever noise barrier should screen the line-of-sight from sensitive receivers;	Closed
290	29 Jan 2019	29th January 2019 / Construction of Lam Tin Interchange	District Council	Noise	Complained about the construction noise from Tunnel Works	Y	 The deproyment of Calificet noise barrier should screen the inte-or-sign from sensitive receivers, To continue to strictly follow the requirements in the approved CNMP; To ensure noise barrier and sound proofing canvases wrapped on PME are intact and in good condition. 	Closed
289 (EPD- N08/RE/000008 59-19)	24 Jan 2019	Early December 2018 -24 Jan-2019 / Construction of Road P2	Resident of Ocean Shore	Noise	Complained about the construction noise from Tunnel Works	Y	See Investigation/ Mitigation Action on Complaint no.288. Details should be referred to CIR-N44.	Closed
288	18 Jan 2019	18th January 2019 (Non- specific)/ Construction of Road P2	Public	Noise	Complained about the construction noise from Tunnel Works	Y	No major construction works at the concerned night time. There was only salvage operation carried out in 11 pm to 12 pm on 17 Jan 2019. No violation of CNP nor Noise Control Ordinance is found in this regard. Details should be referred to CIR-N44.	Closed

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
287	17 Jan 2019	17th January 2019 / Construction of Lam Tin Interchange	Resident of Yung Lai House	Noise	Complained about the construction noise from Kam Tin Interchange.	Y	Project-related. The following recommendations are made to further enhance the mitigation measures: To regularly check and review the noise control activities that are being carried out on site to ensure compliance with statutory requirement. Machines may be in intermittent use should be shut down between works periods or should be throttled down to a minimum. To provide training for the workers to prevent unnecessary noise disturbance. To provide cantilever barrier to screen the construction noise from the NSRs	Closed
286	17 Jan 2019	17th January 2019 / Construction of Road D4	Resident of Park Central	Noise	High frequency machine noise nuisance involving air compressor from the construction site near the Park Central in day time	Ν	See Investigation/ Mitigation Action on Complaint no. 285. The concerned air compressor has been removed on 16 th Jan 2019. Details should be referred to CIR-N41.	Closed
285	17 Jan 2019	17th January 2019 / Construction of Road D4	Resident of Park Central	Noise	Complained about the construction noise from an air blower/fan with generator near Tiu Keng Leng Sport Centre and Park Central.	N	The concerned air compressor was removed from the construction site since 16 January 2019 afternoon, but the high frequency noise nuisance complaints were received on 17 January 2019. According to the CM8(A) noise monitoring record by environmental team, the other noise source from construction site are beeping noise of the reverse alarm system of the plant. Therefore, the high frequency noise nuisance is considered project related after 16 January 2019. Details should be referred to CIR-N41.	Closed
284	16 Jan 2019	16th January 2019 / Construction of Road D4	Resident of Park Central	Noise	Complained about the construction noise from an air compressor near Tiu Keng Leng Sport Centre and Park Central.	Ν	See Investigation/ Mitigation Action on Complaint no. 272. Additional noise barrier was erected around the said air compressor. Details should be referred to CIR-N41.	Closed
283	15 Jan 2019	15th January 2019 / Construction of Road D4	Resident of Park Central	Noise	Complained about the construction noise from an air compressor near Tiu Keng Leng Sport Centre and Park Central.	N	See Investigation/ Mitigation Action on Complaint no. 272. Additional noise barrier was erected around the said air compressor. Details should be referred to CIR-N41.	Closed
282	15 Jan 2019	15th January 2019 / Construction of Road D4	Resident of Park Central	Noise	Complained about the construction noise from an air compressor near Tiu Keng Leng Sport Centre and Park Central.	Ν	See Investigation/ Mitigation Action on Complaint no. 272. Additional noise barrier was erected around the said air compressor. Details should be referred to CIR-N41.	Closed
281	15 Jan 2019	15th January 2019 / Construction of Road D4	Resident of Park Central	Noise	High frequency machine noise nuisance involving air compressor from the construction site near Chui Ling Road roundabout and Tiu Keng Leng Sport Centre in day time.	N	See Investigation/ Mitigation Action on Complaint no. 272. Additional noise barrier was erected around the said air compressor. Details should be referred to CIR-N41.	Closed
280	14 Jan 2019	14th January 2019 / Construction of Road D4	Resident of Park Central	Noise	High frequency machine noise nuisance involving air compressor from the construction site near Chui Ling Road roundabout and Tiu Keng Leng Sport Centre in day time.	N	See Investigation/ Mitigation Action on Complaint no. 272. Details should be referred to CIR-N41.	Closed
279	14 Jan 2019	14th January 2019 / Construction of Road D4	Resident of Park Central	Noise	High frequency machine noise nuisance involving air compressor from the construction site near Tiu Keng Leng Sport Centre in day time Saturday and Holiday (Sunday).	N	See Investigation/ Mitigation Action on Complaint no. 272. Details should be referred to CIR-N41.	Closed
278	12 Jan 2019	12th January 2019 / Construction of Road D4	Resident of Park Central	Noise	High frequency machine noise nuisance involving air compressor from the construction site between Tiu Keng Leng Sport Centre and Park Central in day time	Y	See Investigation/ Mitigation Action on Complaint no. 272. Details should be referred to CIR-N41.	Closed
277	12 Jan 2019	12th January 2019 / Construction of Road P2	Resident of Ocean Shore	Noise	Complained about the noise from breaking activities.	Ν	See investigation/ Mitigation Action on Complaint no. 264. Details should be referred to N39.	Closed

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
276	11 - 12 January 2019	11th - 12th January 2019 / Construction of Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complained about the construction noise from Tunnel Works	Y	The complaints are considered as project-related. The following recommendations were made to further enhance the mitigation measures: Frequent checking and repair the gaps or broken acoustic sheets; Replace any broken SilentMat for wrapping the breaker head; To adopt Cantilever noise barriers at Lam Tin Interchange to screen noise effectively; The deployment of Cantilever noise barrier To continue to strictly follow the requirements in the relevant CNP. To conduct an ad hoc ground-borne noise monitoring with the coordination of the Engineer Engineer should monitor the plant and machine to ensure construction activities are in compliance of CNP.	Closed
275	11 Jan 2019	11th January 2019 / Construction of Road D4	Resident of Park Central	Noise	Complained about the construction noise from a crane near footbridge between Tiu Keng Leng Sport Centre and Park Central	Y	Details can be referred to CIR-N40. See Investigation/ Mitigation Action on Complaint no. 272.	Closed
274 (EPD- N08/RE/000012 34-19)	11 Jan 2019	11th January 2019 / Construction of Road D4	Public	Noise	Complaint about the high frequency machine noise nuisance from the construction site of footbridge between Tiu Keng Leng Sport Centre and park Central.	Y	No high-frequency noise was detected near the complaint location, however, the noise similar to description was detected within the renovation works inside Park Central. Details should be referred to complaint no. 272 and CIR-N41.	Closed
273	10 Jan 2019	10th January 2019 / Construction of Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complained about the construction noise from Tunnel Works	Y	The complaints are considered as project-related. The following recommendations were made to further enhance the mitigation measures: Frequent checking and repair the gaps or broken acoustic sheets; Replace any broken SilentMat for wrapping the breaker head; To adopt Cantilever noise barriers at Lam Tin Interchange to screen noise effectively; The deployment of Cantilever noise barrier To continue to strictly follow the requirements in the relevant CNP. To conduct an ad hoc ground-borne noise monitoring with the coordination of the Engineer Engineer should monitor the plant and machine to ensure construction activities are in compliance of CNP.	Closed
272	8 Jan 2019	8th January 2019 / Construction of Road D4	Resident of Park Central	Noise	Complaint about the high frequency machine noise nuisance from the construction site near Park Central in day time.	Y	High frequency noise emitted from an air compressor was suspected. Noise barrier was seen erected. Noise barrier using material with higher absorption coefficient such as mineral wool is recommended. Details should be referred to CIR-N41.	Closed
271	8 Jan 2019	8th January 2019 / Construction of Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complained about the construction noise from Tunnel Works	Y	The complaints are considered as project-related. The following recommendations were made to further enhance the mitigation measures: Frequent checking and repair the gaps or broken acoustic sheets; Replace any broken SilentMat for wrapping the breaker head; To adopt Cantilever noise barriers at Lam Tin Interchange to screen noise effectively; The deployment of Cantilever noise barrier To continue to strictly follow the requirements in the relevant CNP. To conduct an ad hoc ground-borne noise monitoring with the coordination of the Engineer Engineer should monitor the plant and machine to ensure construction activities are in compliance of CNP.	Closed
270 (EPD- K15/RE/000006 91-19)	7 Jan 2019	7th January 2019 / Construction of Lam Tin Interchange	Cha Kwo Ling Tsuen	Noise & Air Quality	Complained about construction noise & dust (Day & Night-time)	Y	Regular noise monitoring results for day time and night time show full compliance of the noise criteria. Air quality monitoring result in all stations show that no adverse air quality impact has been brought about to the nearby sensitive receivers during the time of complain. During Site audit, damaged acoustic material on the breaker was observed. Watering was provided at during rock breaking to avoid dust generation. The Contractor was reminded to deploy noise barrier to screen the line-of-sight from sensitive receiver.	Closed
269	7 Jan 2019	7th January 2019 / Construction of Road D4	Resident of Park Central	Noise	Complained about the night time construction noise near Park Central.	Y	No noticeable high frequency noise was detected from the air compressor and noise barrier was seen erected in the line-of-sight from the NSR to the Air compressor. Refer to CIR-41 for details.	Closed

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Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
							No exceedances were record at the nearest monitoring station. The following recommendation were made to further enhance the mitigation measure:	
							Frequent checking and repair the gaps or broken acoustic sheets;	
							Replace any broken Silent Mat for wrapping the breaker head;	
		7th January 2019 /				1	To adopt Cantilever noise barriers at Lam Tin Interchange to screen noise effectively;	
268	7 Jan 2019	Construction of Lam Tin	Resident of Yau Lai	Noise	Complained about the construction	Y	The deployment of Cantilever noise barrier should screen the line-of-sight from sensitive receiver;	Closed
		Interchange	Estate		noise at Lam Tin Interchange.		To continue to strictly follow the requirements in the relevant CNP;	
							To conduct an ad hoc ground-borne noise monitoring with the coordination of the	
							Engineer; and	
							Engineer should monitor the plant and machine to ensure construction activities are in	
							compliance of CNP.	
267	7 Jan 2019	7th January 2019 / Construction of Road P2	Resident of Ocean Shore	Noise	Complained about the construction noise from breaking activities.	Y	Refer to Investigation/Mitigation Action on Complaint no. 264. Details should be referred to N39.	Closed

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
							No exceedances were recorded at the nearest monitoring station, however, the approved location for noise monitoring was located at the podium of Ocean Shores. Due to inaccessibility to private unit, it is not possible to perform monitoring at higher floor. ET will keep approaching Ocean Shore Management Office for impact noise monitoring at higher floor. The recommendations for Contractor is as follows:	
266	7 Jan 2019	7th January 2019 /	Resident of Ocean	Noise	Complained about the construction	Y	 only well-maintained plant on-site and plant should be serviced regularly during the construction program; 	Closed
200	/ Jan 2019	Construction of Road P2	Shore	Noise	noise from breaking activities.	I	 Plants known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby noise sensitive receivers; 	Closed
							Machines and plants that may be in intermittent use should be shut down between works periods or should be throttled down to minimum.	
							No exceedances were record at the nearest monitoring station. The following recommendation were made to further enhance the mitigation measure:	
							Frequent checking and repair the gaps or broken acoustic sheets;	
							Replace any broken Silent Mat for wrapping the breaker head;	
							To adopt Cantilever noise barriers at Lam Tin Interchange to screen noise effectively;	
265	7 Jan 2019	7th January 2019 / Construction of Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complained about the construction noise from Tunnel Works	Y	The deployment of Cantilever noise barrier should screen the line-of-sight from sensitive receiver;	Closed
		-					To continue to strictly follow the requirements in the relevant CNP;	
							To conduct an ad hoc ground-borne noise monitoring with the coordination of the	
							Engineer; and	
							Engineer should monitor the plant and machine to ensure construction activities are in	
							compliance of CNP.	
264	2nd January 2019	2nd January 2019 / Construction of Road P2	Resident of Ocean Shore	Noise	Complained about the construction noise from breaking activities.	Y	No noise limit level exceedance was recorded at the noise monitoring stations near ocean shores. The contractor has applied lubricants to the joint of the excavators to dampen the noise emitted from the PMEs. The contractor is recommended to use noise barriers to screen the PMEs from the NSRs as per the Noise mitigation plan.	Closed
263 (EPD-)	1st January 2019	31st December 2018 / Coastal near TKO cemetery	General Public	Water	Complained concerning oil leakage/ on the sea surface near the sunken barge at C2 site.	N	Oil leakage happened due to the derrick lighter was submerged to the sea within the cofferdam. As the oil leakage was found outside the cofferdam during site inspection, there was a gap in the cofferdam. The oil leakage was cleaned up and the floating oil absorber has been used to surround the cofferdam by Contractor. The Contractor are reminded to1) regular check if the site vessels and cofferdam are in good-condition; 2) To regular monitor the operation of any activities in the cofferdam area; 3) To implement the proposed site vessels safety and the emergency responses including clearance measures. Details of the investigation should be referred to CIR-W10.	Closed
262	30 Dec 2018	26 th December 2018/ Construction of Lam Tin Interchange	Resident of Hong Pak Court	Noise	Complained about the construction noise from tunnel works of Lam Tin Interchange.	Y	Refer to investigation for complaint no. 254	Closed
261	26 Dec 2018	26 th December 2018/ Construction of Lam Tin Interchange	Management Section of Hong Nga Court	Noise	Complained about the construction noise from tunnel works of Lam Tin Interchange.	Y	Refer to investigation for complaint no. 254	Closed
260	26 Dec 2018	26 th December 2018/ Construction of Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complained about the construction noise of Lam Tin Interchange.	Y	Refer to investigation for complaint no. 254	Closed
259	26 Dec 2018	26 th December 2018/ Construction of Lam Tin Interchange	Management Section of Hong Nga Court	Noise	Complained about the construction noise of Lam Tin Interchange.	Y	Refer to investigation for complaint no. 254	Closed
258							There was no major construction works at the concerned area during the time of complaint and confirmed by the Resident Engineer. Steel cable wire for anchoring between barge and pier is considered as a possible noise source. The complaint is considered project related.	

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
258								
258							Mitigation measures:	
258	18 Dec 2018	18 th December 2018/ Construction of Lam Tin Interchange	Engineering Section of Ocean Shore	Noise	Complained about the construction noise from the marine works.	Y	Cable wire for anchoring between barge and pier has been replaced by rope between 27 Dec and 2 Jan to reduce noise impact. In addition, other good site practices recommended in the "Implementation Schedule of Proposed Mitigation Measures" of EM&A Manual and the approved CNMP of this Contract had been implemented by the Contractor, including the following:	Closed
258							Ÿ Only well-maintained plant should be operated on-site and plant should be serviced regularly during the	
258							construction program; Ŷ Plants known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby noise sensitive receivers;	
258							Y Machines and plants that may be in intermittent use should be shut down between works periods or should be throttled down to minimum.	
257	18 Dec 2018	18 th December 2018/ Construction of Road P2	Resident of Ocean Shore	Noise	Complained about the construction noise from the marine works.	Y	There was no major construction works at the concerned area during the time of complaint and confirmed by the Resident Engineer. Steel cable wire for anchoring between barge and pier is considered as a possible noise source. The Contractor has replaced the cable wire for anchoring between barge and pier with ropes between 27 Dec and 2 Jan to reduce noise impact.	Closed
							No exceedance was recorded in the noise monitoring result. The number of PME operated in LTI was consistent with the proposed Construction Noise mitigation Plan (CNMP) The following recommendations were made for the Contractor to enhance the mitigation measures:	
256	17 Dec 2018	15 th December 2018/ Construction of Road P2	Resident of Ocean Shore	Noise	Complained about the construction noise from breaking and piling	Ν	Y To frequently check and repair operating PME if any loosen or worn parts of the equipment to reduce excessive noise disturbance;	Closed
					activities		Ŷ Noise barriers should be designed and erected around the noise sources to block the direct line-of-sight from the NSR as per the CNMP; To ensure all erected noise barriers and sound proofing canvases wrapped on PME are intact and in good	
254	16 Dec 2018	16 th December 2018/ Construction of Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complained about the construction noise from Tunnel Works	Y	condition. Ý The night-time works were only conducted inside the tunnels with valid CNP. The noise nuisances are not considered as air-borne in nature, but ground-borne noise. 2.17 In order to confirm the possible ground- borne nature of the noise nuisances for complaints summarized in this report, CEDD has engaged the environmental team to conduct ad hoc ground-borne noise monitoring with the coordination of the Engineer. The findings will be provided in a separate report for the ad hoc monitoring.	Closed
253	15 Dec 2018	15 th December 2018/ Construction of Lam Tin Interchange	Resident of Hong Nga Court	Noise	Complained about the construction noise from Tunnel Works	Y	Refer to the investigation for complaint no. 254	Closed

Complaint No.	Received Date	Date/Location of Complaint	Complainant	Nature	Details of Complaint	Noise Action Level Exceedance	Investigation/ Mitigation Action	Status
							The number of PMEs operated on site and on-time percentage from 19 to 30 November complied with the CNMP, thus, no violation was identified.	
					Complained about the construction		Based on the noise and air monitoring results in November 2018, no Limit Level Exceedance was recorded.	
252	30 Nov 2018	30 th November 2018/ Construction of Road D4	Resident of Park Central	Noise & Air	noise and dust resuspension in Road	Y	Mitigation Measures	Closed
		Construction of Road D4	Central	All	D4.		Ÿ A more effective acoustic barrier was erected between the drill rig and Park Central.	
							Ÿ Frequent water spraying along the Po Yap Road for eight times a day,	
							Stockpile are covered with impervious material to avoid dust resuspension	
251		27 th November 2018/					The complaint lodged on 25 th November 2018 is considered as non-project related, as no works was conducted on that day.	
251	28 Nov 2018	Construction of TKO portal	Public	Noise	Complained about the construction noise from the marine works.	Y	The complaint on 27th November 2018 is considered project related. The contractor is reminded to 1) frequently check and repair operating PME if any loosen or worn parts of the	Closed
251		portai					equipment to reduce excessive noise disturbance; 2) Ensure no further use of PA system for marine works.	
250	26 Nov 2018	26 th November 2018/ Public sea in TKO	Resident of Ocean Shore	Noise	Complained about the noise nuisance from the operation of derrick barge on Sunday.	Y	Refer to the investigation for complaint no. 251	Closed
249	25 Nov 2018	20 th November 2018/ Lam Tin Interchange	Resident of Yau Lai Estate	Noise	Complained about the noise nuisance from the Excavators in LTI on Sunday morning.	Y	Refer to the investigation for complaint no. 251	Closed
248	20 Nov 2018	20 th November 2018/ Lam Tin Interchange	Resident of Yau Lai Estate	Noise	Complained about the noise nuisance during transfer of material in evening time at LTI	Y	Regular noise monitoring results for restricted and non-restricted hours show full compliance of the noise criteria (night-time noise exceedance is considered non-project related). The contractor is reminded to adopt cantilever noise barriers at Lam Tin Interchange to screen noise effectively by screening the line-of-sight from sensitive receivers	Closed
247	20 Nov 2018	19 th November 2018/ Lam Tin Interchange	Public	Noise	Complained about the noise nuisance from rock dropping during evening time	Y	Refer to the investigation for complaint no. 248	Closed
246	19 Nov 2018	19 th November 2018/ Lam Tin Interchange	Resident of Yau Lai Estate	Noise	Complained about the noise nuisance from dump truck in evening time	Y	Refer to the investigation for complaint no. 248	Closed
245	8 Nov 2018	8 th November 2018/ Lam Tin Interchange	Public	Noise	Complained about construction noise during night time from LTI	Y	Refer to the investigation for complaint no. 248	Closed
243	8 Nov 2018	8 th November 2018/ Lam Tin Interchange	Resident of Yau Lai Estate	Noise	Complained about the construction noise during evening time from LTI.	Y	Refer to the investigation for complaint no. 248	Closed
242	7 Nov 2018	7 th November 2018/ Lam Tin Interchange	Public	Noise	Complained about the construction noise and dust nuisance.	Y	Refer to the investigation for complaint no. 248	Closed
241	6 Nov 2018	6 th November 2018/ Lam Tin Interchange	Resident of Yau Lai Estate	Noise	Complained about the noise nuisance from LTI during evening time	Y	Refer to the investigation for complaint no. 248	Closed
240	6 Nov 2018	6 th November 2018/ Lam Tin Interchange	Resident of Yau Lai Estate	Noise	Complained about the noise nuisance from LTI during evening time	Y	Refer to the investigation for complaint no. 248	Closed

Reporting Month/Year	Number of Complaints in Reporting Month	Number of Summons in Reporting Month	Number of Prosecutions in Reporting Month
2016	11	0	0
2017	99	1	0
2018	150	0	1
2019	156	0	0
2020	88	0	0
2021	87	0	0
Jan-22	4	0	0
Feb-22	5	0	0
Mar-22	4	0	0
Apr-22	11	0	0
May-22	7	0	0
Jun-22	3	0	0
Jul-22	3	0	0
Aug-22	5	0	0
Sep-22	2	0	0
Oct-22	1	0	0
Nov-22	2	0	0
Total	638	1	1

Appendix O - Cumulative Log for Complaints, Notifications of Summons and Successful Prosecutions Table O2 - Summary of Cumulative Complaint Log for Tseung Kwan O - Lam Tin Tunnel

Table O3 - Cumulative Log for Notifications of Summons

Contract No.	Log Ref.	Date/Location	Subject	Status	Total no. Received in this Reporting Month	Total no. Received since project commencement
NE/2015/01						
NE/2015/02	KTS24138/2017	25 June 2017/ Marine construction site at Junk Bay	Contrary to: Sections 6 (1) (b) and 6 (5), Noise Control Ordinance, Cap.400	The Summon was issued on 22 Dec 2017 First hearing on 29/3/2018	1	1
NE/2015/03						
NE/2017/01						
NE/2017/02						
NE/2017/06						
NE/2017/07						

Table O4 - Cumulative Log for Successful Prosecutions

Contract No.	Log Ref.	Date/Location	Subject	Status	Total no. Received in this reporting month	Total no. Received since project commencement
NE/2015/01						
NE/2015/02	KTS24138/2017	25 June 2017/ Marine construction site at Junk Bay	Contrary to: Sections 6 (1) (b) and 6 (5), Noise Control Ordinance, Cap.400	Successful prosecution to the subcontractor on 27 June 2018	1	1
NE/2015/03						
NE/2017/01						
NE/2017/02						
NE/2017/06						
NE/2017/07						

APPENDIX P WASTE GENERATION IN THE REPORTING MONTH Name of Department: Civil Engineering Development Department



Monthly Summary Waste Flow Table for Nov 2022

	Actu	al Quantities	of Inert C&D	Materials G	enerated Mo	nthly	Actual	Quantities of	C&D Wastes	6 Generated	Monthly
Month	a.Total Quantity Generated (see Note 8)	b. Hard Rock and Large Broken Concrete	c. Reused in the Contract	d. Reused in Other Projects	e. Disposed as Public Fill	f. Imported Fill	g. Metals (see Note 5)	h. Paper / Cardboard Packaging (see Note 5)	i. Plastics (see Note 3) (see Note 5)	j. Chemical Waste	k. Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
January	17.360	6.604	0.000	0.000	17.360	0.000	0.000	0.000	0.000	0.000	1.607
February	9.396	2.818	0.000	0.000	9.396	0.000	0.000	0.000	0.000	0.000	0.556
March	13.004	5.109	0.000	0.000	13.004	0.000	0.000	0.000	0.000	0.000	1.199
April	15.479	6.773	0.000	0.000	15.479	0.000	0.000	0.000	0.000	0.000	1.412
May	13.225	4.955	0.000	0.000	13.225	0.000	0.000	0.000	0.000	0.000	1.567
June	13.812	6.082	0.000	0.000	13.812	0.000	0.000	0.000	0.000	0.000	1.592
Sub-total	82.276	32.341	0.000	0.000	82.276	0.000	0.000	0.000	0.000	0.000	7.933
July	12.286	3.098	0.000	0.000	12.286	0.000	0.000	0.000	0.000	0.000	1.902
August	16.905	4.861	0.000	0.000	16.905	0.000	0.000	0.000	0.000	0.000	2.875
September	17.503	5.021	0.000	0.000	17.503	0.000	0.000	0.000	0.000	2.210	1.793
October	16.983	4.970	0.000	0.000	16.983	0.000	0.000	0.000	0.000	0.000	1.719
November	17.736	5.112	0.000	0.000	17.736	0.000	0.000	0.000	0.000	0.000	1.759
December											
Total	163.689	55.403	0.000	0.000	163.689	0.000	0.000	0.000	0.000	2.210	17.981

Total inert C&D waste generated = c+d+e

Total inert C&D waste recycled = c+d

% of recycled inert C&D waste = Total C&D waste recycled / Total C&D waste generated

Name of Department: Civil Engineering Development Department



Notes: (1) The performance target are given in PS Clause 6(14)

- (2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site
- (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
- (4) The Contractor shall also submit the latest forecast of the amount of C&D materials expected to be generated from the Works, together with a break down of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000m3. (PS Clause 1.105(4) refers)
- (5) All recyclable materials, including metals, paper / cardboard packaging, plastics, etc. will be collected by registered collector for recycling.
- (6) Conversion factors for reporting purpose:

in-situ: rock = 2.5 tonnes/m³; soil = 2.0 tonnes/m³

- (7) excavated: rock = 2.0 tonnes/m³; soil = 1.8 tonnes/m³; broken concrete and bitumen = 2.4 tonnes/m³, soil and rock = 1.9 tonnes/m³
- (8) C&D Waste = 0.9 tonnes/m^3 ; bentonite slurry = 2.8 tonnes/m^3

Diesel density: 0.8kg/l

Numbers are rounded off to the nearest three decimal places

The "Total Quantity Generated" equals to the sum of "Reuse in the Contract", "Reuse in Other Projects" and "Disposed as Public Fill"

		Actual Qua	ntities of Inert C&I	Materials Generat	ed Monthly			Actual Quantities	s of C&D Wastes G	enerated Monthly	
Month	Total Quantity Generated	Hard Rock and Large Borken Concrete	Reused in the Contract	Reused in other Projects	Disposal as Public Fill	Imported Fill	Metals	Paper / Cardboard Packaging	Plastics (See note 3)	Chemical Waste	Other, e.g. general refuse
	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000m ³]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000kg]	[in '000m ³]
Jan	0.19505	0.00000	0.00000	0.00000	0.19505	0.00000	30.87000	0.00000	0.00000	0.00000	0.19012
Feb	0.40030	0.00000	0.00000	0.00000	0.40030	0.00000	34.60000	0.00000	0.00000	0.00000	0.12334
Mar	0.26404	0.00000	0.00000	0.00000	0.26404	0.00000	66.80000	0.00000	0.00000	0.00000	0.29312
Apr	0.19612	0.00000	0.00000	0.00000	0.19612	0.00000	8.38000	0.00000	0.00000	0.00000	0.29434
May	0.32200	0.00000	0.00000	0.00000	0.32200	0.00000	71.57000	0.00000	0.00000	0.00000	0.25900
June	0.99100	0.00000	0.00000	0.00000	0.28823	0.70277	44.30000	0.00000	0.00000	0.00000	0.39504
SUB- TOTAL	2.36849	0.00000	0.00000	0.00000	1.66572	0.70277	256.52000	0.00000	0.00000	0.00000	1.55496
Jul	1.05537	0.00000	0.00000	0.00000	0.14540	0.90997	16.29000	0.00000	0.00000	0.00000	0.35734
Aug	1.79317	0.00000	0.00000	0.00000	0.65463	1.13855	5.17000	0.00000	0.00000	0.00000	0.29510
Sep	0.31825	0.00000	0.00000	0.00000	0.31825	0.00000	2.73000	0.00000	0.00000	0.00000	0.28156
Oct	1.42101	0.00000	0.00000	0.00000	0.61566	0.80535	4.58000	0.00000	0.00000	0.00000	0.37034
Nov	0.54585	0.00000	0.00000	0.00000	0.54585	0.00000	1.74000	0.00000	0.00000	0.00000	0.48946
Dec	0.00000										
TOTAL	7.50213	0.00000	0.00000	0.00000	3.94550	3.55664	287.03000	0.00000	0.00000	0.00000	3.34876

Monthly Summary Waste Flow Table for 2022 Year

Note: Conversion to 1000m³ for general refuse is weight in 1000kg multiply by 0.002

Conversion to 1000m³ for Inert C&D is weight in 1000kg multiply by 0.0005 Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material



Monthly Summary of Waste Flow Table for 2022

Name of Person completing the Record: <u>Steve Wong</u>

	Actual Q	uantities of Ind	ert C&D Mater	rials Generate	d Monthly	Actual Qua	Intities of Non-	-inert C&D Wa	astes Generat	ted Monthly
Month	Total Quantity	Broken Concrete	Reused in the Contract	Reused in other	Disposed as Public Fill	Metals	Paper/ cardboard	Plastics	Chemical Waste	Others, e.g. general
	Generated	(see Note 1)		Projects			packaging	(see Note 2)		refuse
	(in '000m ³)	(in '000 Kg)	(in '000 Kg)	(in '000 Kg)	(in '000 Kg)	(in '000m ³)				
Jan	0.175	0	0	0	0.1716	0	0	0	0	0.00845
Feb	0.1881	0	0	0	0.1170	0	0	0	0	0.0711
Mar	0.3261	0	0	0	0.3220	0	0	0	0	0.00413
Apr	0.0405	0	0	0	0.0385	0	0	0	0	0.00195
May	0.7575	0	0	0	0.7300	0	0	0	0	0.0275
Jun	0.1878	0	0	0	0.1799	0	0	0	0	0.00793
Sub-total	1.6750	0	0	0	1.5590	0	0	0	0	0.1126
Jul	0.3459	0	0	0	0.3440	0	0	0	0	0.00188
Aug	0.0622	0	0	0	0.054	0	0	0	0	0.00821
Sep	0.2447	0	0	0	0.2350	0	0	0	0	0.00971
Oct	0.1680	0	0	0	0.1560	0	0	0	0	0.012
Nov	0.2473	0	0	0	0.2420	0	0	0	0	0.00528
Dec	0.0000	0	0	0	0.0000	0	0	0	0	0
Total	2.7431	0	0	0	2.5900	0	0	0	0	0.1497

Notes:

(1) Broken concrete for recycling into aggregates.

(2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

(3) Use the conversion factor: 1 full load of 24t / 30t dumping truck being equivalent to 6.5m3 / 8.125 m3 by volume.



Name of Department: Civil Engineering & Development Department

Contract No.: NE/2017/06

		Actual Quantitie	es of Inert C&I	O Materials Ger	erated Monthl	у	Actu	al Quantities o	f C&D Wastes	Generated Mor	nthly
Month	Total Quantity Generated	Hard Rock & Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Chemical Waste	Others, e.g. General Refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	0	0	0	0	0	0	0	0	0	0	0.006
Feb	0	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0	0.006
May	0	0	0	0	0	0	0	0	0	0	0.003
Jun	0	0	0	0	0	0	0	0	0	0	0.108
Sub-total	0	0	0	0	0	0	0	0	0	0	0.123
Jul	0	0	0	0	0.024	0	0	0	0	0	0.036
Aug	0	0	0	0	0	0	0	0	0	0	0.012
Sep	0	0	0	0	0	0	0	0	0	0	0.03
Oct	0	0	0	0	0	0	0	0	0	0	0.018
Nov	0	0	0	0	0	0	0	0	0	0	0.024
Dec											
Total	0	0	0	0	0.024	0	0	0	0	0	0.243

Monthly Summary Waste Flow Table For 2022

Notes: (1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(2) Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material.

(3) Each dump truck carries $6m^3$ of general refuse when full-load.

(4) The commencement date of the Contract is 9 November 2018. The current reporting period is from 1 November 2022 to 30 November 2022.



Monthly Summary Waste Flow Table for 2022

Name of Department: Civil Engineering and Development Department

Contract No.: <u>NE/2017/01</u>

	Actu	al Quantities	of Inert C&I) Materials G	enerated Mor	nthly	Actual	Quantities of	f C&D Wastes	Generated M	Ionthly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	0.0018	0.0000	0.0000	0.0000	0.0018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0512
Feb	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0167
Mar	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0297
Apr	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0213
May	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0117
Jun	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0088
Sub-total	0.0018	0.0000	0.0000	0.0000	0.0018	0.0000	0.0000	0.0000	0.0000	0.0000	0.1393
Jul	0.0234	0.0000	0.0000	0.0000	0.0234	0.0000	0.0000	0.0000	0.0000	0.0000	0.0182
Aug	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0197
Sep	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0165
Oct	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0053	0.0000	0.0106	0.0000	0.0133
Nov	0.0029	0.0000	0.0000	0.0000	0.0029	0.0000	0.0000	0.0000	0.0000	0.0000	0.0076
Dec											
Total	0.0281	0.0000	0.0000	0.0000	0.0281	0.0000	0.0053	0.0000	0.0106	0.0000	0.2146

Notes: 1. Assume the density of soil fill is 2 ton/m^3 .

2. Assume the density of rock and broken concrete is 2.5 ton/m^3 .

3. Assume the density of mixed rock and soil is 1.9 ton/m^3 .

4. Assume the density of slurry and bentonite is 2.8 ton/m^3 .

5. The slurry and bentonite are disposed at Tseung Kwan O Area 137 Fill Bank.

6. Assume the density of C&D waste is 0.9 ton/m^3 .

7. The non-inert C&D wastes are disposed at NENT.

Monthly Summary Waste Flow Table for <u>2022</u> (year)

Name of Person completing the record: <u>Sedo Sze (EO)</u>

Project : Cross Bay Link, TKO, Main Bridge and Associated Works

		,	ies of Inert C&		nerated Monthly		Act	ual Quantities	of C&D Waste	s Generated Mc	onthly
			les of men Ca	D Materials Gel	nerated monthly		AC	luai Quantities	of CaD waste	s Generated Mic	muny
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	$(in '000m^3)$	$(in '000m^3)$	$(in '000m^3)$	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 m ³)
Jan	0.162	0.000	0.000	0.000	0.162	0.000	0.000	0.171	0.000	0.000	0.768
Feb	0.066	0.000	0.000	0.000	0.066	0.000	0.000	0.210	0.000	0.000	0.513
Mar	0.306	0.000	0.000	0.000	0.306	0.000	0.000	0.163	0.000	0.000	0.750
Apr	0.126	0.000	0.000	0.000	0.126	0.000	0.000	0.182	0.000	0.000	0.552
May	0.054	0.000	0.000	0.000	0.054	0.000	0.000	0.194	0.000	0.000	0.600
Jun	0.306	0.000	0.000	0.000	0.306	0.000	0.000	0.158	0.000	0.000	0.439
Sub-total	1.020	0.000	0.000	0.000	1.020	0.000	0.000	1.078	0.000	0.000	3.623
Jul	0.102	0.000	0.000	0.000	0.102	0.000	0.000	0.204	0.000	0.000	0.422
Aug	0.246	0.000	0.000	0.000	0.246	0.000	0.000	0.168	0.000	0.000	0.784
Sep	0.096	0.000	0.000	0.000	0.096	0.000	0.000	0.195	0.000	0.000	1.450
Oct	0.012	0.000	0.000	0.000	0.012	0.000	0.000	0.150	0.000	0.000	1.011
Nov	0.090	0.000	0.000	0.000	0.090	0.000	0.000	0.210	0.000	0.000	1.037
Dec	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	1.566	0.000	0.000	0.000	1.566	0.000	0.000	2.005	0.000	0.000	8.327

Contract No.: NE/2017/07

Note:

For non-inert portion of C&D material, assume the density of 1 m³ general refuse is equal to 200 kg.
 For inert portion of C&D material, assume 6 m³ per each full-filled dump truck.

3. All values are round off to the third decimal places.

APPENDIX Q TENTATIVE CONSTRUCTION PROGRAMME

High Level 3 Months Look Ahead Programme Activities Dec-22 Jan-23 Feb-23 Lam Tin Interchange Site Formation - Area 1G1 & 1G2 &5 Site Formation - Area 2 Site Formation - Slope Stabilisation Site Formation - Retaining Wall Administration Building West Ventilation Building Bridge Construction Bridge Noise Barrier / Noise Enclosure Emergency Stormwater storage tank + Stormwater pumping station Sewage Pumping Station EHC4 Construction (Type 20) Semi Enclosure Structures **CKLR Underground Utilities** Landscape Deck Noise Cover LTI Drainage Road EHC4 Noise Enclosure BBI Footbridge FT-01 Footbridge FT-02 LTI Road Pavement Lei Yue Mun Road Junction Modification Works Stage 1 Commissioning Outstanding Works Tunnel Profile Barrier / VE Panel S02 2 Excavation & Lining Tunnel E&M Works **TKO Interchange** East Ventilation Building TKO - External Road Pavement TKO - Miscellaneous works TKO - Slope Stabilisation Works

tivity ID	Activity Name	Calendar	Duration	maining Start Dur	Finish	Total Float	Activity % Complete	N	lov	2022	Dec
	02 Tseung Kwan O - Lam Tin Tunnel-Road P2 and Associated Works (Nov 2022		2071	337 12-Jan-17 A	20-Dec-23	0					
-	ey Date and Section Completion of the Works (Revised Contract Key Date)	P2-Cal.A	365	365 20-Dec-22	20-Dec-23	-532					
A10480	Key Date 4_Portion IV, V, ,VI, VIII and IX Opening Road P2 and CBL	P2-Cal.A	0	0	20-Dec-22*	-487	0%				
A10520	Section 2_All Works within Portion II	P2-Cal.A	0	0	20-Dec-22*	-487	0%				
A10540	Section 3_All Works within Portion IV, V, VI, VII, VIII and IX	P2-Cal.A	0	0	20-Dec-22*	-487	0%	l			
A10560	Section 4_All Works Comprising the Preservation and Protection of Existing Trees	P2-Cal.A	0	0	20-Dec-22*	-530	0%				
A10580	Section 5_All Works Comprising the Landscape Softworks	P2-Cal.A	0	0	20-Dec-22*	-533	0%				ľ
A10600	Section 6_All Works Comprising the Estabilishment Works	P2-Cal.A	0	0	20-Dec-23*	-532	0%				
Possible	Key Date and Section Completion of the Works (Landscape Deck - Proposed	P2-Cal.A	0	0 20-Dec-22	20-Dec-22	-487					
A10920	Key Date 4_Portion IV, V, ,VI, VIII and IX Opening Road P2 and CBL	P2-Cal.A	0	0	20-Dec-22*	-487	0%				Ī
A10930	Section 2_All Works within Portion II	P2-Cal.A	0	0	20-Dec-22*	-487	0%				
A10940	Section 3_All Works within Portion IV, V, VI, VII, VIII and IX	P2-Cal.A	0	0	20-Dec-22*	-487	0%				
A10950	Section 4_All Works Comprising the Preservation and Protection of Existing Trees	P2-Cal.A	0	0	20-Dec-22*	-530	0%				ł
Target Ke	ey Date and Section Completion of the Works (Possible Contract Key Date)	P2-Cal.A	0	0 20-Dec-22	20-Dec-22	-487					
A10800	Key Date 4_Portion IV, V, ,VI, VIII and IX Opening Road P2 and CBL	P2-Cal.A	0	0	20-Dec-22	-487	0%				
A10820	Section 2_All Works within Portion II	P2-Cal.A	0	0	20-Dec-22	-487	0%				
A10830	Section 3_All Works within Portion IV, V, VI, VII, VIII and IX	P2-Cal.A	0	0	20-Dec-22	-487	0%				
A10840	Section 4_All Works Comprising the Preservation and Protection of Existing Trees	P2-Cal.A	0	0	20-Dec-22	-530	0%				
A10850	Section 5_All Works Comprising the Landscape Softworks	P2-Cal.A	0	0	20-Dec-22	-533	0%				
Interface		P2-Cal.C	0	0 19-Nov-22 A	19-Nov-22 A						
K10419-24	Handover to Installation Lighting by C1	P2-Cal.C	0	0	19-Nov-22 A		100%		🛋 Har	idover to Insta	allatio
K10419-65	Handover to Installation of Watermains for CBL	P2-Cal.C	0	0	19-Nov-22 A		100%		Har	idover to Insta	allatio
		P2-Cal.C	27	0 21-Sep-22 A	21-Nov-22 A						
Event an		P2-Cal.C	0	0 27-Sep-22 A	11-Nov-22 A			l			
B57960	rning (EW) EW no. 286: Pavement Laying Schedule	P2-Cal.C	0	0 27-Sep-22 A			100%	ying Sched	ule		
B57970		P2-Cal.C	0	0 27-Sep-22 A				1		Schedule of T	ion
	EW no. 287: Updating Laying Schedule of Top Layer of Bituminous Paving		0							ment of Cons	
B57980	EW no. 288: Postponement of Construction of Manholes along DN2100 Drainage	P2-Cal.C	0	0 27-Oct-22 A						9: Disruption	
B58150	EW no. 289: Disruption of Work - Provision of Access S100 and S300 for C1 between 0700-2300 from 27 October 2022 onwards	P2-Cal.C	0	0 11-Nov-22 A			100%	•			
B58210	EW no. 290: Sheetpile Extraction next to C6 Site Office in Portion VIII	P2-Cal.C	0	0 11-Nov-22 A			100%			0: Sheetpile E	
B60830	EW no. 291: D.I. Pipe for DC-1 Chamber	P2-Cal.C	0	0 11-Nov-22 A			100%			1: D.I. Pipe fo	
B60840	EW no. 292: Suspension of Concrete Supply by Multiway Sai Kung Batching Plant due to COVID-19	P2-Cal.C	0	0 11-Nov-22 A			100%	▼ E\	/v no. 29:	2: Suspensio	n of L
Compens	ation Event (CE)	P2-Cal.C	27	0 21-Sep-22 A	15-Nov-22 A						
B60290	CE-473: Provision of Additional Sign Faces for Cross Bay Bridge	P2-Cal.C	0	0 06-Oct-22 A			100%	of Additiona	I Sign Fa	aces for Cross	; Bay
B60300	CE-474: Disinfection of Site Office for May, June and July 2022	P2-Cal.C	0	0 30-Sep-22 A			100%	Site Office f	or May, J	lune and July	2022
B60310	CE-564: Enhancement Works for the Subsided CLP Pillar Box "PLCC-A10" in Portion II Footpath	P2-Cal.C	0	0 05-Oct-22 A			100%	ent Works f	or the Su	bsided CLP F	'illa
B60320	CE-565: Application of Black Paint at the Soffit and Wall of the Southbound of the Underpass	P2-Cal.C	0	0 07-Oct-22 A			100%	on of Black I	aint at th	he \$offit and \	Nall
B60330	CE-566: Application of Black Paint at the Soffit and Wall of the Northbound of the Underpass	P2-Cal.C	0	0 07-Oct-22 A			100%	on of Black I	^a aint at tl	he Soffit and \	Nall
B60340	CE-574: Fabrication and Installation of 4 Nos. of Opening Closures Adjacent to the Stormwater Plant Room	P2-Cal.C	0	0 10-Oct-22 A			100%	ation and In	stallation	of 4 Nos. of C	Jpeni
B60350	CE-575: Second Extension of Providing an Alternative Access Route via the Southbound of the Road P2 at Portion VIII	P2-Cal.C	0	0 21-Sep-22 A			100%	Providing ar	Alternat	ive Access R	oute
									<u> </u>		
	ual Work Milestone NE/2015/02 Tseung Kwan O - L		Road	3 M	lonthly Rollin		-	late		20-N	Date
	maining Work \diamond \diamond Last Month Milestone P2 and Associated	Works			(Data Date		2022)				54-2
Crit	tical Remaining Work Last Month Baseline				Page	e:1 of 11					

				2023	
0			Jan	Feb	Mar
ſ	81	Key Da	te 4_Portion IV, V, ,VI, VI	I and IX Opening Roa	d P2 and CBL
ŀ	8:	Section	2_All Works within Port	ion II	
ŀ	\$	Section	3_All Works within Port	ion IV, V, VI, VII, VIII an	dIX
ŀ	8	Section	4_All Works Comprising	the Preservation and	Protection of E
	3	Section	5_All Works Comprising	the Landscape Softw	orks
	* 1	Key Da	te 4_Portion IV, V, ,VI, VI	I and IX Opening Roa	d P2 and CBL
	8	Section	2 All Works within Port	on II	
ļ		Section	3_All Works within Port	ion IV, V, VI, VII, VIII an	dIX
			4_All Works Comprising		
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	•	Kev Da	te 4_Portion IV, V, ,VI, VI	I and IX Opening Boa	P2 and CBI
ļ			2_All Works within Port		
			3_All Works within Port		AIX
			4_All Works Comprising		
	- \$:	Section	5_All Works Comprising	g the Landscape Softw	orks
		ighting			
1	on d	of Wate	rmains for CBL		
	aye	r of Biti	uminous Paving		
1	on	of Man	holes along DN2100 Dra	inage	
ľ	ork	- Provi	sion of Access S100 and	S300 for C1 between	0700-2300 fror
	ctic	n next	to C6 Site Office in Portio	n VIII	
	-1 (Chamb	er		
Ì	Cor	icrete S	upply by Multiway Sai K	ung Batching Plant du	e to COVID-19
1	B	idge			
	2				
	Bo	x "PLC	C-A10" in Portion II Foot	path	
	of t	he Sou	thbound of the Underpas	s	
	of t	he Nort	hbound of the Underpas	S	
	ing	Closur	es Adjacent to the Storm	water Plant Room	
	via	the So	uthbound of the Road P2	at Portion VIII	
1				<u> </u>	l
	ə		Revision	Checked /	Approved
2	22	M	IPU		

Activity ID	Activity Name	Calendar Original	Remaining Start Finish Dur	Total Activity % 2022 Float Complete Nov		2023
B60360	CE-576: Additional EMSD Requirements - Battery Rack Provision for UPS System	P2-Cal.C 0		Float Complete Nov 100% \$D Requirements - Battery Rac	Dec Jan ck Provision for UPS System	Feb Mar
B60370	CE-577: Additional EMSD Requirements - Improvements Works for Low Voltage Switch Board	d System P2-Cal.C 0	0 30-Sep-22 A	100% \$D Requirements - Improvement	ents Works or Low Voltage Switch Board Sy	stem
B60380	CE-578: Revised Detail of Utility Trough with Protruding Valve	P2-Cal.C 0	0 23-Sep-22 A	100% ility Trough with Protructing Valv	lve	
B60390	CE-579: Revised Fire Hydrant Outlet for Underpass	P2-Cal.C 0	0 05-Oct-22 A	100% re Hydrant Outlet for Underpas	ss	
B60400	CE-580: Construction of Street Name Plates	P2-Cal.C 0	0 07-Oct-22 A	100% fion of Street Name Plates		
B60410	CE-581: Carrying Out the Water Absorption and Crushing Strength Tests for DN300, DN375,	DN450 and DN525 P2-Cal.C 0	0 06-Oct-22 A	100% Dut the Water Absorption and C	Crushing Strength Tests for DN300, DN375,	DN450 and DN525
B60420	CE-582: Additional HyD Requirements - MCCB/MCB Power Distribution for Underpass Lighti	ng System P2-Cal.C 0	0 06-Oct-22 A	100% HyD Requirements - MCCB/M	MCB Power Distribution for Underpass Light	ng System
B60430	CE-583: Fourth Extension of Night Time Workforce Provision for the Remaining E&M Works a	t Underpass P2-Cal.C 0	0 28-Sep-22 A	100% n of Night Time Workforce Prov	vision for the Remaining E&M Works at Und	erpass
B60440	CE-584: Provision of Precast Concrete Manholes for the Use in Portion IX	P2-Cal.C 0	0 07-Oct-22 A	100% of Precast Corcrete Manholes	es for the Use in Portion IX	
B60450	CE-585: Gate 02 and Arbor at the Landscaped Deck	P2-Cal.C 0	0 07-Oct-22 A	100% and Arbor at the Landscaped De	Deck	
B60460	CE-586: Benches and Fence Wall 01 at the Landscaped Deck	P2-Cal.C 0	0 10-Oct-22 A	100% es and Fence Wall 01 at the La	andscaped Deck	
B60470	CE-587: Fence Wall 02 (CH0 - CH100) at the Landscaped Deck	P2-Cal.C 0	0 14-Oct-22 A	100% ce Wall 02 (CH0 - CH100) at th	the Lancscaped Deck	
B60480	CE-588: Fence Wall 02 (CH100 - CH200) at the Landscaped Deck	P2-Cal.C 0	0 14-Oct-22 A	100% ce Wall 02 (CH 100 - CH200) a	at the Landscaped Deck	
B60490	CE-589: Remaining Fence Wall 02 and Bottle Filling Fountain at the Landscaped Deck	P2-Cal.C 0	0 14-Oct-22 A	100% maining Fence Wall 02 and Bot	ottle Filling Fountain at the Landscaped Dec	<
B60500	CE-590: Application of Black Paint at the Soffit and Wall of the U-trough B and Slip Road 2	P2-Cal.C 0	0 07-Oct-22 A	100% pn of Black Paint at the Soffit ar	and Wall of the U-trough B and Slip Road 2	
B60510	CE-591: Carrying Out the Dimensions, Compressive Strength, Unpolished Skid Resistance V	alue P2-Cal.C 0	0 10-Oct-22 A	100% g Out the Dimensions, Compre	ressive Strength, Unpolished Skid Resistan	e Value
B60520	CE-593: Gate 01 at the Landscaped Deck for BMCPC	P2-Cal.C 0	0 10-Oct-22 A	100% 1 at the Landscaped Deck for E	BMCPC	
B60530	CE-595: Third Extension of Providing an Alternative Access Route via the Road P2	P2-Cal.C 0	0 03-Oct-22 A	100% ion of Providing an Alternative	e Access Route via the Road P2	
B60540	CE-596: Extension of Providing Night Time Workforce for the Installation of VE/PC Panels	P2-Cal.C 0	0 30-Sep-22 A	100% roviding Night Time Workforce	e for the Installation of VE/PC Panels	
B60550	CE-597: Provision of A Third Party Liability Insurance for Community Chest's Walk for Millions	P2-Cal.C 0	0 11-Oct-22 A	100% ion of A Third Party Liability Ins	isurance for Community Chest's Walk for Mi	lions
B60560	CE-601: Provision of Temporary Directional Signage (TKO Section) for the Commissioning of	TKO-LTT P2-Cal.C 0	0 12-Oct-22 A	100% sion of Temporary Directional S	Signage (TKO Section) for the Commission	ng of TKO-LTT
B60570	CE-602: Provision of Temporary Directional Signage (Pedestrian and Cyclist) for the Commission	ioning of TKO-LTT P2-Cal.C 0	0 12-Oct-22 A	100% sion of Temporary Directional S	Signage (Pedestrian and Cyclist) for the Co	mmissioning of TKO-LTT
B60850	CE-592: Proposed Concrete Platform with Cat Ladder at CT-01 U-trough Side Wall	P2-Cal.C 0	0 07-Nov-22 A	100% CE-592: Proposed Conc	crete Platform with Cat Ladder at CT-01 U-tr	ough Side Wall
B60860	CE-598: Additional Protection Works for the M.J. at U-Trough Structure of Road P2 CH105 Pri	or to the Asphalt Works P2-Cal.C 0	0 21-Oct-22 A	100% B: Additional Protection Works f	for the M.J. at U-Trough Structure of Road P	2 CH105 Prior to the Asphalt Works
B60870	CE-599: Additional Protection Works for the M.J. at U-Trough Structure of S200 CH969 Prior t	b the Asphalt Works P2-Cal.C 0	0 21-Oct-22 A	100% P: Additional Protection Works f	for the M.J. at U-Trough Structure of S200 C	H969 Prior to the Asphalt Works
B60880	CE-600: Additional Protection Works for the M.J. at U-Trough Structure of S200 CH955 Prior t	b the Asphalt Works P2-Cal.C 0	0 21-Oct-22 A	100% 2: Additional Protection Works f	for the M.J. at U-Trough Structure of S200 C	H955 Prior to the Asphalt Works
B60890	CE-603: Construction of Surface Channel for Drainage System at Slip Road SR2	P2-Cal.C 0	0 15-Nov-22 A	100% CE-603: Construc	ction of Surface Channel for Drainage Syste	m at Slip Road SR2
B60900	CE-604: Inclement Weather from 21 August 2022 to 20 September 2022	P2-Cal.C 0	0 26-Oct-22 A	100% 604: Inclement Weather from a	21 August 2022 to 20 September 2022	
B60910	CE-605: Inclement Weather from 21 September 2022 to 20 October 2022	P2-Cal.C 0	0 01-Nov-22 A	100% CE-605: Inclement Weather f	from 21 September 2022 to 20 October 202	2
B60920	CE-606: Civil Provision for the Bus Trial Run	P2-Cal.C 0	0 26-Oct-22 A	100% -606: Civil Provision for the Bu	us Trial Run	
B60930	CE-607: Civil Provision for Construction of VMS Associated Ducting at CT01 Adjacent to Store	nwater Plant Room P2-Cal.C 0	0 04-Nov-22 A	100% CE-607: Civil Provision for	r Construction of VMS Associated Ducting a	t CT01 Adjacent to Stormwater Plant
B60940	CE-609: Provision of Rapid Antigent Test Kits for September 2022	P2-Cal.C 0	0 15-Nov-22 A	100% CE-609: Provision	n of Rapid Antigent Test Kits for September	2022
B60950	CE-610: Provision of Rapid Antigent Test Kits for October 2022	P2-Cal.C 0	0 15-Nov-22 A	100% • CE-610: Provision	n of Rapid Antigent Test Kits for October 202	2
B60960	CE-611: Disinfection of Site Office for August, September and October 2022	P2-Cal.C 0	0 15-Nov-22 A	100% • CE-611: Disinfecti	tion of Site Office for August, September and	October 2022
B60970	CE-615: Provision of Temporary Works to Facilitate the Community Chest New Territories Wa	k for Millions 2022 P2-Cal.C 0	0 10-Nov-22 A	100% CE-615: Provision of	Temporary Works to Facilitate the Commun	ty Chest New Territories Walk for Mil
Notificatio	n of Compensation Event (NCE)	P2-Cal.C 27	0 26-Sep-22 A 21-Nov-22 A			
B60580	NCE no. 454:Advance Construction of U-Trough C before Completion of Wall Stem of Seawa	I Coping P2-Cal.C 0	0 26-Sep-22 A	100% istruction of U-Trough C before	e Completion of Wall Stem of Seawall Copir	g
B60590	NCE no. 456:Inclement Weather 21 August 2022 to 20 September 2022	P2-Cal.C 0	0 14-Oct-22 A	100% Elnclement Weather 21 August	t 2022 to 20 September 2022	
B60980	NCE no. 457: Postponement in Construction of Manholes along DN2100 Drainage	P2-Cal.C 0	0 24-Oct-22 A	100% no. 457: Postponement in Cor	nstruction of Manholes along DN2100 Drain	age
		· · · · · · · · · · · · · · · · · · ·			Date Revision	Checked Approved
		E/2015/02 Tseung Kwan O - Lam Tin Tunnel - Road	3 Monthly Rolling I	120	Date Revision 0-Nov-22 MPU	Checked Approved
	aining Work	P2 and Associated Works	Orks (Data Date : 20 Nov 2022) Description Description <td></td>			
	•		1 450			

Activity ID	Activity Name	Calendar Origina Duratio	al Remaining Start Fin	nish Total Activity % Float Complete	2022 Nov	Dec Jan Feb Mar
B60990	NCE no. 458: Inclement Weather 21 September 2022 to 20 October 2022		0 0 25-Oct-22 A			er 21 September 2022 to 20 October 2022
B61000	NCE no. 459: Disruption of Work - Provision of Access S100 and S300 for C1 between 0700-2300 from 27 Oct 20	P2-Cal.C	0 0 27-Oct-22 A	100% DE 1	no. 459: Disruption of Wo	ork - Provision of Access S100 and S300 for C1 between 0700-2300 from 27 Oct 20
B61010	NCE no. 461: Sheet Pile Extraction next to C6 Site Office at Portion VIII	P2-Cal.C	0 0 04-Nov-22 A	100%	NCE no. 461: Sheet Pile	e Extractic next to C6 Site Office at Portion VIII
B61020	NCE no. 462: DI Pipe for DC-1 Chamber	P2-Cal.C	0 0 04-Nov-22 A	100%	NCE no. 462: DI Pipe fo	r DC-1 C <mark>ham</mark> ber
B61030	NCE no. 463: VE Panels Damaged by Others	P2-Cal.C	0 0 09-Nov-22 A	100%	◆ NCE no. 463: VE Pa	anels Danaged by Others
B61040	NCE no. 464: Dummy Aluminium Panel for the Internal Wall of U-trough and Underpass Structures for Public Even	ent P2-Cal.C	0 0 21-Nov-22 A	100%	◆ NCE no. 4	164: Dumry Aluminium Panel for the Internal Wall of U-trough and Underpass Struc
B61050	NCE no. 465: Abortive Works in VE Panel Installation due to the Installation of Dummy Aluminium Panel	P2-Cal.C	0 0 21-Nov-22 A	100%	◆ NCE no. 4	165: Abortive Works in VE Panel Installation due to the Installation of Dummy Alumin
B61060	NCE no. 466: Remaining Works at U-trough S200 CH941 to P2 CH105	P2-Cal.C	0 0 21-Nov-22 A	100%	◆ NCE no. 4	166: Remening Works at U-trough S200 CH941 to P2 CH105
B61070	NCE no. 467: Public Event - Community Chest's Walk for Millions	P2-Cal.C	0 0 21-Nov-22 A	100%	◆ NCE no. 4	167: Public Event - Community Chest's Walk for Millions
PMI		P2-Cal.C 2	7 0 21-Sep-22 A 16	-Nov-22 A		
B60600	PMI No. 441A: Provision of Additional Sign Faces for Cross Bay Bridge	P2-Cal.C	0 06-Oct-22 A	100% visio	on of Additic nal Sign Fac	ces for Cross Bay Bridge
B60610	PMI No. 514: Enhancement Works for the Subsided CLP Pillar Box "PLCC-A10" in Portion II Footpath	P2-Cal.C	0 0 05-Oct-22 A	100% icer	ment Works for the Subsi	ided CLP Pillar Box "PLCC-A10" in Portion II Footpath
B60620	PMI No. 516: Second Extension of Providing an Alternative Access Route via the Southbound of the Road P2	P2-Cal.C	0 0 21-Sep-22 A	100% h of	f Providing an Alternative	Access Foute via the Southbound of the Road P2
B60630	PMI No. 518: Revised Detail of Utility Trough with Protruding Valve	P2-Cal.C	0 0 23-Sep-22 A	100% of U	Jtility Trough with Protrud	ting Valve
B60640	PMI No. 519: Fourth Extension of Night Time Workforce Provision for the Remaining E&M Works	P2-Cal.C	0 0 28-Sep-22 A	100% nsic	on of Night Time Workfor	ce Provision for the Remaining E&M Works
B60650	PMI No. 520: Additional EMSD Requirements - Improvements Works for Low Voltage Switch Board System	P2-Cal.C	0 0 30-Sep-22 A	100% EM	ISD Requirements - Impr	rovements Works for Low Voltage Switch Board System
B60660	PMI No. 521: Additional EMSD Requirements - Battery Rack Provision for UPS System	P2-Cal.C	0 0 30-Sep-22 A	100% EM	ISD Requirements - Batt	ery Rack Provision for UPS System
B60670	PMI No. 522: Revised Fire Hydrant Outlet for Underpass	P2-Cal.C	0 0 05-Oct-22 A	100% ed F	Fire Hydrant Outlet for Ur	nderpass
B60680	PMI No. 523: Carrying Out the Water Absorption and Crushing Strength Tests for DN300, DN375, DN450 and DN	1525 P2-Cal.C	0 0 06-Oct-22 A	100% ing	Out the Water Absorption	n and Crushing Strength Tests for DN300, DN375, DN450 and DN525
B60690	PMI No. 524: Additional HyD Requirements - MCCB/MCB Power Distribution for Underpass Lighting System	P2-Cal.C	0 0 06-Oct-22 A	100% iona	al HyD Requirements - M	ICCB/MCB Power Distribution for Underpass Lighting System
B60700	PMI No. 530: Construction of Street Name Plates	P2-Cal.C	0 0 07-Oct-22 A	100% strue	ction of Street Name Plat	tes
B60710	PMI No. 531: Gate 01 at the Landscaped Deck for BMCPC	P2-Cal.C	0 0 10-Oct-22 A	100% ate (01 at the Landscaped De	eck for BMCPC
B60720	PMI No. 532: Fabrication and Installation of 4 Nos. of Opening Closures Adjacent to the Stormwater Plant Room	P2-Cal.C	0 0 10-Oct-22 A	100% #bric	cation and Installation of	4 Nos. of Opening Closures Adjacent to the Stormwater Plant Room
B60730	PMI No. 533: Benches and Fence Wall 01 at the Landscaped Deck	P2-Cal.C	0 0 10-Oct-22 A	100% and	hes and Ferce Wall 01 a	at the Landscaped Deck
B60740	PMI No. 534: Carrying Out the Dimensions, Compressive Strength, Unpolished Skid Resistance Value and Water	r P2-Cal.C	0 0 10-Oct-22 A	100% arryi	ing Out the Dimensions,	Compressive Strength, Unpolished Skid Resistance Value and Water
B60750	PMI No. 535: Fence Wall 02 (CH0 - CH100) at the Landscaped Deck	P2-Cal.C	0 0 14-Oct-22 A	100% Fe	ence Wall 02 (CH0 - CH1	00) at the _ar dscaped Deck
B60760	PMI No. 536: Provision of A Third Party Liability Insurance for Community Chest's Walk for Millions	P2-Cal.C	0 0 11-Oct-22 A	100% rovi	ision of A Third Party Lial	bility Insulance for Community Chest's Walk for Millions
B60770	PMI No. 537: Fence Wall 02 (CH100 - CH200) at the Landscaped Deck	P2-Cal.C	0 0 14-Oct-22 A	100% Fe	ence Wall 02 (CH100 - Cl	H200) at the Landscaped Deck
B60780	PMI No. 538: Remaining Fence Wall 02 and Bottle Filling Fountain at the Landscaped Deck	P2-Cal.C	0 0 14-Oct-22 A	100% Re	emaining Fence Wall 02	and Bottle Filling Fountain at the Landscaped Deck
B60790	PMI No. 539: Provision of Temporary Directional Signage (Pedestrian and Cyclist) for the Commissioning of TKO-	-LTT P2-Cal.C	0 0 12-Oct-22 A	100% Prov	vision of Temporary Direc	ctional Signage (Pedestrian and Cyclist) for the Commissioning of TKO-LTT
B60800	PMI No. 540: Provision of Temporary Directional Signage (TKO Section) for the Commissioning of TKO-LTT	P2-Cal.C	0 0 12-Oct-22 A	100% Prov	vision of Temporary Direc	ctional Signage (TKO Section) for the Commissioning of TKO-LTT
B60810	PMI No. 541: Extension of Providing Night Time Workforce for the Installation of VE/PC Panels	P2-Cal.C	0 0 30-Sep-22 A	100% of F	Providing Night Time Wo	orkforce for the Installation of VE/PC Panels
B60820	PMI No. 542: Third Extension of Providing an Alternative Access Route via the Road P2	P2-Cal.C	0 0 03-Oct-22 A	100% ten	nsion of Providing an Alte	ernative Access Route via the Road P2
B61080	PMI No. 511: Additional Protection Works for the M.J. at U-Trough Structure of Road P2 CH105 Prior to the Aspha	alt Works P2-Cal.C	0 0 21-Oct-22 A	100% p. 51	11: Additional Protection	Works for the M.J. at U-Trough Structure of Road P2 CH105 Prior to the Asphalt Wo
B61090	PMI No. 512: Additional Protection Works for the M.J. at U-Trough Structure of S200 CH969 Prior to the Asphalt W	Vorks P2-Cal.C	0 0 21-Oct-22 A	100% 2. 51	12: Additional Protection	Works for the M.J. at U-Trough Structure of S200 CH969 Prior to the Asphalt Works
B61100	PMI No. 513: Additional Protection Works for the M.J. at U-Trough Structure of S200 CH955 Prior to the Asphalt W	Vorks P2-Cal.C	0 0 21-Oct-22 A	100% p. 51	13: Additional Protection	Works for the M.J. at U-Trough Structure of S200 CH955 Prior to the Asphalt Works
B61110	PMI No. 517: Civil Provision for Construction of VMS Associated Ducting at CT01 Adjacent to Stormwater Plant R	Room P2-Cal.C	0 0 04-Nov-22 A	100%	PMI No. 517: Civil Provi	ision for Construction of VMS Associated Ducting at CT01 Adjacent to Stormwater F
B61120	PMI No. 543: Civil Provision for the Bus Trial Run	P2-Cal.C	0 0 04-Nov-22 A	100%	PMI No. 543: Civil Provi	sion for the Bus Trial Run
B61130	PMI No. 545: Construction of Road Marking and Signing Layout and Informative Signage	P2-Cal.C	0 0 25-Oct-22 A	100% No.	. 545: Construction of Ro	pad Marking and Signing Layout and Informative Signage
	NE/2015/02 13	seung Kwan O - Lam Tin Tunnel - Road 22 and Associated Works		hly Rolling Programme Update Data Date : 20 Nov 2022) Page : 3 of 11	e	Date Revision Checked Approved 20-Nov-22 MPU

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61270 PMN 61280 PMN 61290 PMN 61300 PMN	No. 505: Construction of Surface Channel for Drainage System at Slip Road SR2 No. 506: Disinfection of Site Office for August, September and October 2022 No. 507: Provision of Rapid Antigent Test Kits for October 2022 No. 508: Provision of Rapid Antigent Test Kits for September 2022	P2-0 P2-0 P2-0	·Cal.C ·Cal.C		0 15-Nov-22 A					INU 304. I	1 uppose	
61280 PMN 61290 PMN 61300 PMN	No. 506: Disinfection of Site Office for August, September and October 2022 No. 507: Provision of Rapid Antigent Test Kits for October 2022 No. 508: Provision of Rapid Antigent Test Kits for September 2022	P2-0 P2-0	Cal.C					100%	٠	PMN No	o. 505: C	Constru
61290 PMN 61300 PMN	No. 507: Provision of Rapid Antigent Test Kits for October 2022 No. 508: Provision of Rapid Antigent Test Kits for September 2022	P2-			0 15-Nov-22 A			100%		PMN No		
61300 PMN	No. 508: Provision of Rapid Antigent Test Kits for September 2022			0	0 15-Nov-22 A			100%		PMN No		
				0	0 15-Nov-22 A					PMN No		
61310 PMIN			Cal.C					100%		N No. 51		
	No. 510: Provision of Temporary Works to Facilitate the Community Chest New Territories Walk for Mil		Cal.C	0	0 10-Nov-22 A			100%	• F IVI		0. FIOV	JUIL
	Submission, Contractor's Design Submission and Appro	vai	Cal.C	202	7 28-Dec-21 A	28-Nov-22	-393					
rocurement of	Major Material		Cal.C	202	7 28-Dec-21 A	28-Nov-22	-393					
rchitectural		P2-0	Cal.C	202	7 28-Dec-21 A	28-Nov-22	-393					
515142-13 Deliv	rery of VE and PC Panel from Mainland China (for SR2 CH200 - 250 and P2 CH430-500 & P2 CH821	1 to CH941) P2-0	Cal.C	18	1 28-Dec-21 A	21-Nov-22	-393	94.44%			livery of	
515142-23 Deliv	rery of Remaining VE Panel and Precast Concrete Panels from Mainland China (include P2 CH105-36	i3) P2-0	Cal.C	46	1 16-Feb-22 A	22-Nov-22	-393	97.83%		De	elivery o	i Rer
515142-33 Deliv	rery of Remaining VE Panel and Precast Concrete Panels from Mainland China (P2 CH363 - 411 and S	SR2 CH110 - 170) P2-0	Cal.C	10	5 23-Jul-22 A	28-Nov-22	-393	50%			Deliv	≥ry o f
ection 3 of the	e Works All Works within Portion IV, V, VI, VII, VIII, and IX			508	57 17-May-21 A	27-Jan-23	-423					
ew Reclaimed	Section			504	26 17-May-21 A	20-Dec-22	-392					
larine Works		P2-0	Cal.C	20	20 20-Nov-22 A	13-Dec-22	-391					
Armour Protection		P2-0	Cal.C	20	20 20-Nov-22 A	13-Dec-22	-391					
Laying of Armour F	Rock (East)	P2-0	Cal.C	20	20 20-Nov-22 A	13-Dec-22	-391					
MC13895 Armo	our CH190-250 (2310m3), Remaining	P2-0	·Cal.C	9	9 20-Nov-22 A	30-Nov-22	-380	0%			Arm	nour C
MC13975 Armo	our CH440-525 South (14878m3)	P2-0	Cal.C	20	20 20-Nov-22 A	13-Dec-22	-391	0%				
and Works				504	26 17-May-21 A	20-Dec-22	-392					
Road P2 Underpase	s (CH105-CH318)	P2-0	Cal.C	502	26 17-May-21 A	20-Dec-22	-397					
Underpass		P2-0	·Cal.C	502	26 17-May-21 A	20-Dec-22	-397					
Underpass P2 CH 105	- 318	P2-0	Cal.C	494	26 17-May-21 A	20-Dec-22	-397					
Remaining Works		P2-0	Cal.C	482	20 17-May-21 A	13-Dec-22	-391		\backslash			
LC18365 Cons	struction of in-situ concrete profile barrier at Underpass (P2 CH259.4 - CH305) (Roof Slab Bays 1-3)	P2-(·Cal.C	16	18 07-Aug-22 A	10-Dec-22	-389	0%				-
	on V - Backfill to formation of EVA adjacent to plant room at Portion V (+3.5 to 6.8mPD, for FSD)	P2-	Cal.C	20	5 26-Jul-22 A	09-Dec-22	-549	75%				- P
			040	20		OU DOU LL	010					

			2023		
e F	latform	Jan with Cat Ladder at CT-0	Feb 1 U-trough Side V	Nall	Mar
npo	rary W	orks to Facilitate the Cor	nmunity Chest Ne	ew Te	rritories Walk fo
n o	Surfac	e Channel for Drainage	System at Slip Ro	bad S	R2
of	Site Of	fice for August, Septemb	er and October 20)22	
R	pid An	tigent Test Kits for Octob	er 2022		
R	pid An	tigent Test Kits for Septe	mber 2022		
fR	apid Aı	tigent Test Kits for Augu	st 2022		
ŕth	e M.J. a	at U-Trough Structure of I	Road P2 CH105 I	Prior 1	o the Asphalt V
r th	e M.J. a	at U-Trough Structure of \$	\$200 CH969 Prio	r to th	e Asphalt Worl
r th	e M.J. a	at U-Trough Structure of \$	3200 CH955 Prio	r to th	e Asphalt Worl
or	structio	n of VMS Associated Du	cting at CT01 Adj	acen	t to Stormwater
Tri	al Run				
te	Platfor	m with Cat Ladder at CT-	01 U-trough Side	Wall	
on	of Surfa	ce Channel for Drainage	System at Slip F	Road	SR2
		Affice for August, Septeml			
		ntigent Test Kits for Octol			
		ntigent Test Kits for Septe			
		Vorks to Facilitate the Co		lew T	erritories Walk
,	orary i				
	Danal	from Mainland China (fr	5 B2 CU200 2	E0 an	
		from Mainland China (fo			
		nel and Precast Concret			
па	ring v	E Panel and Precast Co	Icrete Panels Iron	n wa	mano Omna (F
		10m3), Remaining			
mo	ur CH4	40-525 South (14878m3)	K.		
tr u ,		in-situ concrete profile b			
1	- Bacł	fill to formation of EVA a	gjacent to plant ro	om a	t Portion V (+3.
e		Revision	Checked	4	Approved
22	N	1PU			

ctivity ID	Activity Name	Calendar	Original Duration	Remaining Start Dur	Finish	Total Float	Activity % Complete	N	2 lov	022)ec
LC18462-015	Construction of EVA + BMCPC footpath (permanent)	P2-Cal.C	20	12 21-May-22 A	03-Dec-22	-595	40%		— —	- c	nstruc	
LC28699	To complete remaining 2100 dia. storm drain manholes (SMH9103), blocked by C1 Access at BMCPC	P2-Cal.C	15	2 20-Jul-22 A	22-Nov-22	-590	86.67%	-	– Toc	omplete	e rema	ai
LC28700	Access via UP Roof 2 - 3 to complete remaining 2100 dia. storm drain manholes (2 nos, SMH9104 - 9105)	P2-Cal.C	30	5 20-May-22 A	25-Nov-22	-594	83.33%		– A	ccess v	ia UP	J
LC28710	Waterproofing works above underpass between P2 CH245 to CH318	P2-Cal.C	8	3 07-Aug-22 A	29-Nov-22	-594	62.5%		╞╡━	Water	prcofi	ir
LC28720	Access via UP Roof 7-12 to complete remaining 2100 dia. storm drain manholes (4 nos, SMH9106 - 9109)	P2-Cal.C	56	2 23-Mar-22 A	22-Nov-22	-599	96.43%		Accr	ess via	UP R	0
LC28730	Waterproofing above underpass between P2 CH105 to CH245	P2-Cal.C	8	8 03-Jun-22 A	01-Dec-22	-599	0%	; 	╞┥╺━╸	🛢 Wa	erproo))
LC28750	Acceptance of submission of Form WWO542 (EW No.215)	P2-Cal.C	358	20 17-May-21 A	13-Dec-22	-599	94.41%		่่่่่──			4
LC28800	Manhole construction (SMH9103) (Delay due to C1 Access)	P2-Cal.C	16	16 11-Nov-22 A	08-Dec-22	-397	0%				Manl	ł
LC28810	Pipe Laying (SMH9103)	P2-Cal.C	16	16 12-Nov-22 A	08-Dec-22	-397	0%				Pipe	
	om/Sump Pit Room/Stormwater Plant Room	P2-Cal.C	15	15 20-Jul-22 A	07-Dec-22	-391	070					
_	/Sump Pit Room/Stormwater Plant Room (Up to -5.0mPD) (Team 7 & 8)	P2-Cal.C		15 20-Jul-22 A	07-Dec-22	-391					Ш	
LC18580-00	Construction of in-situ concrete profile barrier at Underpass (P2 CH218-CH259.4) (Roof Slab Bays 4 - 6)	P2-Cal.C	15	15 20-Jul-22 A	07-Dec-22	-391	0%				Cons	
Footpath, Cycle	e Track, Road and Drainage Works P2 CH 105 - 318	P2-Cal.C	196	26 20-Apr-22 A	20-Dec-22	-397						
LC18453-05	Portion V - Construct DC1, 9805A and connection to SMH9805	P2-Cal.C	18	0 20-Apr-22 A	05-Dec-22	-599	100%		-		ortion	
LC18453-05A	- Construct Discharge Chamber DC1 (CE no. 512)	P2-Cal.C	18	10 20-Sep-22 A	01-Dec-22	-599	44.44%			L.C.	nstruc	;
LC18455-20	Portion V - footpath connected to existing promenade (proposed instructions under PMI197 & 197A)	P2-Cal.C	35	26 21-May-22 A	20-Dec-22	-397	25.71%			┢┿╋	┢╋┯━	ľ
LC18457-10	Cycle Track - BS road light ductings along adjacent footpath	P2-Cal.C	6	6 21-Oct-22 A	26-Nov-22	-554	0%		– – c	ycle Tr	ack -	
LC18460-0	Seaside footpath - Construct drainages (SMH9910 - SMH9912) (2 nos)	P2-Cal.C	18	5 04-May-22 A	26-Nov-22	-592	70%		= = s	easide	footp	i
LC18460-00	Seaside footpath - Backfilling to 6.0mPD approx (seaside footpath CH941 to P2 CH218) (4 bays x 8 x 1 layer/d)	P2-Cal.C	40	10 20-Jul-22 A	05-Dec-22	-599	75%	_	┿┥ ━━	┝╾╋	easic	1
LC18460-05	Seaside footpath - BS Road lighting ducts	P2-Cal.C	11	5 14-Sep-22 A	06-Dec-22	-599	54.55%				Seasi	;
LC18460-11	Seaside footpath - Backfill to footpath formation level (4 bays x 2 x 1layer/d)	P2-Cal.C	8	8 15-Oct-22 A	08-Dec-22	-599	0%			┝┿┯┥	Sea	4
LC18460-20	Installation of ballustrade on mass coping	P2-Cal.C	24	24 10-Nov-22 A	17-Dec-22	-395	0%			┝┥┥	╟──	•
LC18460-21	Reinstatement of the seabed	P2-Cal.C	5	5 06-Jan-23 A	20-Dec-22	-397	0%	J		Π	L.	
LC18462	Planter Walls and u-channels	P2-Cal.C	25	18 15-Nov-22 A	17-Dec-22	-554	28%	L N			Ē,	
LC18462-011	Removal of temporary BMCPC footpath	P2-Cal.C	9	9 26-Oct-22 A	30-Nov-22	-437	0%					
LC18462-020	Installation of ducting and road lighting	P2-Cal.C	12	12 29-Oct-22 A	06-Dec-22	-427	0%				nstall	
LC18462-025	T&C	P2-Cal.C	34	23 05-Nov-22 A		-437	32.35%				T	
LC18462-05	Construction of drainage between SMH9213 and SMH9212 (underpass S/B: slab no.5) and drainage between SMH9213 and SMH9711	P2-Cal.C	29	15 10-May-22 A	07-Dec-22	-390	48.28%				Cons	1
LC18462-08	Construction of drainage between SMH9213 and SMH9212 (underpass N/B: slab no.6)	P2-Cal.C	12	12 17-Oct-22 A	09-Dec-22	-390	0%	7			1 ¹ Co	C
E&M Works		P2-Cal.C	204	26 01-Apr-22 A	20-Dec-22	-397		/				
Underpass		P2-Cal.C	198	23 01-Apr-22 A	16-Dec-22	-394						
Electrical Installat	ion	P2-Cal.C	198	23 01-Apr-22 A	16-Dec-22	-431						
LC19420	Support Installation and Cable Containment Installation for all System (Bay 1- Bay 4)	P2-Cal.C	28	4 01-Apr-22 A	24-Nov-22	-435	85.71%	-	 γ	ipport Ir	າstalla	1
LC19420-01	Support Installation and Cable Containment Installation for all System (Bay 5 - Bay 6)	P2-Cal.C	14	6 03-Aug-22 A	26-Nov-22	-435	57.14%		┝┥━━╧	uppor	Instal	
LC19420-02	Support Installation and Cable Containment Installation for all System (Bay 7 - Bay 14)	P2-Cal.C	30	6 08-Sep-22 A	29-Nov-22	-435	80%		 	Suppo	ort Ins	į
LC19424	Cable Installation & Lighting Installation, Small Power Installation (Bay 1-4 and Bay 7-14)	P2-Cal.C	12	12 27-Oct-22 A	03-Dec-22	-437	0%		╞╡══╸		ble In	1
LC19424-05	Cable Installation & Lighting Installation, Small Power Installation (Bay 5-6)	P2-Cal.C	5	5 07-Nov-22 A	06-Dec-22	-431	0%		┢━┫────	╞╋┓┤	Cable	;
LC19424-10	Main cable laying from LV Switch Room and internal T&C	P2-Cal.C	8	8 26-Oct-22 A	29-Nov-22	-425	0%			Main	cable	
LC19424-10A	Completion of Small Power and similar Installation at all areas	P2-Cal.C	0	0	06-Dec-22	-431	0%				Comp	,
	•											-
Actual	Work Milestone NE/2015/02 Tseung Kwan O - L	am Tin Tunnol	Road	3 N	Ionthly Roll	ing Progra	mme Uno				D	;
	ning Work ♦ ♦ Last Month Milestone P2 and Associated		nuau	51	•	te : 20 No	-	late		20)-No	
	Remaining Work Last Month Baseline					ge : 5 of 11	,					
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						2023		Max
¢	٦¢	of EVA	14	Jan BMCPC foot	path (perr	Feb nanent)		Mar
i	٦C	2100	d	lia. storm drair	n manhole	s (SMH9103), bl	ockec	by C1 Access
						00 dia. storm drai		-
								110163 (2 1103, c
	N	orks a	b¢	ve underpass	between	P2 CH245 to CH	318	
f	7	12 to	сс	omplete remai	ning 2100	dia. storm drain r	nanho	oles (4 nos, SM
	y a	lbove	u	nderpass betw	veen P2 C	H105 to CH245		
:CI	ec	tance	0	fsubmission	of Form W	WO542 (EW No.	215)	
	e	onstr	uc	tion (SMH91)3) (Delay	due to C1 Acces	s)	
				19103)	,, ,		,	
	, 	ig (Oi						
	t	on of i	n	situ concrete	profile bar	ner at Underpass	(P2 0	H218-CH259.4
	c	onstr	u¢	t DC1, 9805A	and conr	ection to SMH98	05	
bi	s	harge	- (Chamber DC1	(CE no 5	12)		
		-						
Π						o existing promer	iade (proposea mstru
8	rc	ad lig	Jh	t ductings alor	ng adjacer	nt footpath		
h	-	Const	tru	ct drainages	(SMH991	9 - SMH9912) (2	nos)	
io	ci	path -	Ē	Backfilling to 6	6.0mPD ap	prox (seaside foo	otpath	CH941 to P2 C
	00	tpath	-	BS Road light	ing ducts			
		ootpat	h	- Backfill to fo	otpath for	mation level (4 ba	ays x 2	2 x 1layer/d)
	ns	tallati	0	n of ballustrad	e on mass	coning		
		lanat		, or bandolida	o on made	ooping		
Π								
Î	2	unter \	N	alls and u-cha	nnels			
e	r	orary	B	MCPC footpa	th			
id	n	of duo	cti	ng and road li	ghting			
		F&C						
	t	on of o	dra	ainage betwee	n SMH92	13 and SMH921	2 (unc	lerpass S/B: sla
						213 and SMH92		
I				amage betw			12 (ui	10e1pass 10/D. S
I								
20		nd Ca	ab	le Containme	nt Installat	ion for all System	ı (Bay	1- Bay 4)
i,	on	and (Ca	ble Containm	ent Install	ation for all Syste	m (Ba	y 5 - Bay 6)
	ati	on an	d	Cable Contair	iment Inst	allation for all Sys	stem (Bay 7 - Bay 14)
II						I Power Installat		
II								
						mall Power Instal	ιαιΙΟΠ	(ס-מ אסט)
ľ	nç) from	Ę	V Switch Roo	m and inte	rnal T&C		
lit	DI	of Sn	na	II Power and	similar Ins	tallation at all are	as	
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e 22	2	-	\ <i>I</i>	Revisio PU	n	Checked	4	Approved
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LC19434 Ventilation Installat	T&C		P2-Cal.C	Duration 24	9 19-Nov-22 A	16-Dec-22	Float -431	Complete 62.5%		Nov		
Ventilation Installati	ion						101	02.3%				+
			P2-Cal.C	39	21 26-Sep-22 A	14-Dec-22	-392			1		
LC19436-20	Internal t&C		P2-Cal.C	9	2 26-Sep-22 A	22-Nov-22	-392	77.78%			nternal t&	šС
LC19444	T&C		P2-Cal.C	30	19 09-Oct-22 A	14-Dec-22	-392	36.67%		╺	╺┿╋╸	┿┿╸
Stormwater Plan	t Room		P2-Cal.C	70	26 12-Oct-22 A	20-Dec-22	-397					
Electrical Installation	n		P2-Cal.C	30	15 29-Oct-22 A	07-Dec-22	-386		\sim			
LC19476	T&C		P2-Cal.C	30	15 29-Oct-22 A	07-Dec-22	-386	50%			╺╾┿╋╸	T&
SCADA, MACS, EL	V Installation		P2-Cal.C	51	26 27-Oct-22 A	20-Dec-22	-397			/		
LC19510	T&C for MACS, ELV Installation		P2-Cal.C	15		22-Nov-22	-386	86.67%			F&C fci M	MAGS
	T&C for SCADA system		P2-Cal.C	27	15 19-Nov-22 A	20-Dec-22	-397	44.44%				
MVAC Installation								44.44 /0				
			P2-Cal.C	53		20-Dec-22	-397					Ш
	T&C		P2-Cal.C	53	26 12-Oct-22 A	20-Dec-22	-397	50.94%				┯
Plumbing & Draina			P2-Cal.C	47	26 17-Oct-22 A	20-Dec-22	-437					
LC90260	T&C		P2-Cal.C	47	26 17-Oct-22 A	20-Dec-22	-437	44.68%				Ŧ
Foam Tank & Su	mp Pit Room		P2-Cal.C	57	24 23-Sep-22 A	17-Dec-22	-395			1		
Electrical Installation	n		P2-Cal.C	30	24 23-Sep-22 A	17-Dec-22	-395					
LC19522	T&C		P2-Cal.C	30	24 23-Sep-22 A	17-Dec-22	-395	20%		╺	╧┿╋	┿┿╸
MVAC Installation			P2-Cal.C	30	20 29-Oct-22 A	13-Dec-22	-396					
LC19528	T&C		P2-Cal.C	30	20 29-Oct-22 A	13-Dec-22	-396	33.33%			═┿╋╸	┿┿┙
Road Lighting S	ystem		P2-Cal.C	59	20 03-Oct-22 A	20-Dec-22	-437					
LC90440	Under Ground Ducting Installation		P2-Cal.C	15	4 03-Oct-22 A	01-Dec-22	-594	73.33%	/			nder C
	Lighting Pole Installation		P2-Cal.C	16	6 16-Nov-22 A	10-Dec-22	-432	62.5%				
	Cable Installation		P2-Cal.C	18	6 19-Oct-22 A	03-Dec-22	-432	66.67%				Cable
	Internal Test including cable, equipment & system functional tests		P2-Cal.C	3	3 10-Dec-22	13-Dec-22	-432	0%		K		1
	T&C		P2-Cal.C	29	10 12-Nov-22 A	13-Dec-22	-432	65.52%				
LC90540	Handover to Hyd Lighting & Hyd BS		P2-Cal.C	1	1 20-Dec-22	20-Dec-22	-437	0%				
LC90550	Completion of Road Lighting System for Sectional Completion		P2-Cal.C	9	9 10-Dec-22	20-Dec-22	-437	0%				
U-Trough A and	IB		P2-Cal.C	246	26 07-Mar-22 A	20-Dec-22	-392					
"U-Trough A Ty	rpe 3 and U-Trough B Type 4" from S200 CH821 to P2 CH105		P2-Cal.C	183	25 20-Apr-22 A	19-Dec-22	-396					
Backfill works			P2-Cal.C	22	15 14-Nov-22 A	16-Dec-22	-394					
LC21190	Backfilling from +2.5mPD to +5.5mPD (15 Layers, 1D/layer), Structure S200 CH845 - CH	926	P2-Cal.C	15	15 14-Nov-22 A	16-Dec-22	-394	0%				++++
LC21200	Backfilling from +2.5mPD to +5.5mPD (22 layers, 1D/layer), Structure S200 CH821 - CH8	845	P2-Cal.C	22	10 14-Nov-22 A	10-Dec-22	-389	54.55%			_₩	e e
LC25940	Backfill works from +2.5mPDto +5.5mPD (14 layers, 1D/layer), Structure S200 CH926 - C	CH969	P2-Cal.C	14	14 14-Nov-22 A	15-Dec-22	-393	0%			_₩	┿┿╸
LC26340	Backfill works from +2.5mPD to +5.5mPD (15 Layers, 1D/layer), Structure S200 CH965 -	P2 CH105	P2-Cal.C	15	15 14-Nov-22 A	16-Dec-22	-394	0%			_₩	┿┿
E&M Works - Elec			P2-Cal.C	60	14 26-Aug-22 A	06-Dec-22	-431		/			
	Support Installation and Cable Containment Installation for Grid Beam S200 CH941 - P2	CH105	P2-Cal.C	30	6 26-Aug-22 A	26-Nov-22	-429	80%			Suppo	or Inst
	Cable Installation & Lighting Installation, Small Power Installation for Grid Beam S200 CH		P2-Cal.C	5	5 02-Nov-22 A	29-Nov-22	-429	0%		╺		
												Con
	Completion of Small Power and similar Installation at all areas		P2-Cal.C	0	0	06-Dec-22	-431	0%	$\geq \parallel$	*		Con
Remaning Works			P2-Cal.C	35	25 20-Apr-22 A	19-Dec-22	-396					
- A -1				_								
Actual W	Vork ♦ Milestone ng Work ♦ Last Month Milestone	NE/2015/02 Tseung Kwan O - La P2 and Associated		Road	3 M	onthly Rollin (Data Date		-	late		2	20-N
	Remaining Work Last Month Baseline	rz anu Associateu	VVUINS				e : 20 Nov e : 6 of 11				Γ	
	-					1 "6						

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#C							
41	stall	atio	'n				
	F&C	for	SCADA syste	m			
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nd	Ducti	ng	Installation				
ing	Pole	Ins	stallation				
alla	tion						
err	al Te	stin	ncluding cable	e, equipme	ent & system fund	tional	tests
80	:						
			er to Hyd Ligh				
					stem for Section		
					PD (15 Layers, 1		
					22 layers, 1D/lay mPD (14 layers,		
					5mPD (15 Layer		
i pi	and	Ca	ble Containm	ent Install	ation for Grid Bea	m S2	00 CH941 - P2
to	n & L	gh	ting Installatio	n, Small F	ower Installation	for G	rid Beam S200
tio	of S	ma	II Power and :	similar Ins	tallation at all are	as	
	Ш				!		<u>!</u>
е			Revisio	n	Checked	Å	Approved
22		M	PU				

		Duration	Remaining Start Dur		Float	Activity % 20 Complete Nov	Dec	Jan	Feb Mar
LC26400-10 Construction of insitu concrete profile barriers at S200 CH941 - CH997 (delay due to C1 share access)	P2-Cal.C	35	25 20-Apr-22 A	19-Dec-22	-396	30%			ofile barriers at S200 CH941 - CH997
Retaining Wall Type W1 S200 CH755 - CH821/ S300 CH326 - CH261	P2-Cal.C	184	26 12-Apr-22 A	20-Dec-22	-392				
Construction of 1st Pour Wall (team 17-22)	P2-Cal.C	154	7 27-Apr-22 A	29-Nov-22	-395				
LC21440-11 Construction of Retaining Wall Type W1 (S200 CH809 to CH821) (1st+2nd pours Wall Bay 5) (delay due to C1 share access)	P2-Cal.C	23	5 08-Sep-22 A	26-Nov-22	-393	78.26%	onstruction of	Betaining Wall Type W1 (S200 CH	309 to CH821) (1st+2nd pours Wall E
LC21440-111 Construction of Retaining Wall Type W1 (S300 CH313 to CH300) (1st pour Wall Bay 7) (delay due to C1 share access)	P2-Cal.C	6	2 27-Apr-22 A	23-Nov-22	-395	66.67%	struction of Re	taining Wall Type W1 (S300 CH31	3 to CH300) (1st pour Wall Bay 7) (de
LC21440-111A Construction of Retaining Wall Type W1 (S300 CH313 to CH300) (2nd pour Wall Bay 7) (delay due to C1 share access)	P2-Cal.C	18	5 11-Oct-22 A	29-Nov-22	-395	72.22%	Construction	of Letaining Wall Type W1 (S300 C	H313 to CH300) (2nd pour Wall Bay
Remaining Works	P2-Cal.C	140	26 12-Apr-22 A	20-Dec-22	-392				
LC21450 Removal of temporary site road (after finish of tentative period of shared access with C1 Contractor under PMIs)	P2-Cal.C	5	2 20-Sep-22 A	22-Nov-22	-385	60%	oval of tempo	ary site road (after finish of tentative	period of shared access with C1 Cor
LC21450-01 Rockfill and lay Type A material to drainage bedding from 2.50mPD	P2-Cal.C	10	2 26-Sep-22 A	24-Nov-22	-385	80%	ckf II and lay T	ype A material to drainage bedding	from 2.50mPD
LC21450-02 Construct drainage Manholes SMH9401 to SMH9404	P2-Cal.C	15	2 10-Oct-22 A	24-Nov-22	-385	86.67%	nstruct drainag	e Manholes SMH9401 to SMH9404	L
LC21450-03 Construct drainage pipes (SMH9401 to SMH9404)	P2-Cal.C	8	3 26-Oct-22 A	24-Nov-22	-385	62.5%	nstruct drainag	e pipes (SMH9401 to SMH9404)	
LC21450-04 General backfill to 6.08mPD approx (4 bays x 4x1layer/d)	P2-Cal.C	10	5 10-Nov-22 A	03-Dec-22	-390	50%	General b	ck ill to 6.08mPD approx (4 bays x	4x1layer/d)
LC21460 Insitu Concrete Profile Barrier Construction	P2-Cal.C	14	14 16-Nov-22 A	06-Dec-22	-390	0%	- Insitu C	oncrete Profile Barrier Construction	
LC21465 Installation of Precast Concrete Profile Barriers	P2-Cal.C	10	10 16-Nov-22 A	09-Dec-22	-383	0%	Insta	lation of Precast Concrete Profile B	arriers
LC21466 General backfill from drainage level at SMH9403 to 4.95mPD (2.65mPD to 4.95mPD approx) (4 Bay x 4x1layer/d)	P2-Cal.C	12	6 08-Nov-22 A	01-Dec-22	-390	50%	General bar	xfi from drainage level at SMH940	3 to 4.95mPD (2.65mPD to 4.95mPD
LC21468 Road gullies and connection	P2-Cal.C	10	10 17-Nov-22 A	12-Dec-22	-390	0%	Ro	ad gullies and connection	
LC21470 Road Furniture (S200 CH755 to CH821/S300 CH326 to CH261)	P2-Cal.C	12	12 18-Nov-22 A	20-Dec-22	-397	0%		Road Furniture (S200 CH755 to	CH821/S300 CH326 to CH261)
Providing an Alternative Access Route & Maintanining	P2-Cal.C	60	1 12-Apr-22 A	21-Nov-22	-393				,
LC21457 Maintain C1 acess via temporary site road under PMI408	P2-Cal.C	60	1 12-Apr-22 A	21-Nov-22	-393	98.33%		via temporary site road under PMI40	8
	P2-Cal.C	60	1 09-Jun-22 A	21-Nov-22	-395			via temporary site road under PMI43	
		246				90.33 %			5
"U-Trough A Type 1 & 2" from S200 CH674 - CH821, S100/CH280, S300/CH403.5 & S400/CH158.1	P2-Cal.C		26 07-Mar-22 A	20-Dec-22	-397				
Remaining Works	P2-Cal.C	246	26 07-Mar-22 A	20-Dec-22	-397				1755
LC23350-01A Road Works (RB, WC) (S200 CH755 - S200 CH674/S400 CH158/S100 CH280/S300 CH403)	P2-Cal.C	53	26 17-Oct-22 A	20-Dec-22	-397	50.94%			1755 - S200 CH674/S400 CH158/S1
LC23350-01A10 Road Works - Wearing Course to all remaining areas	P2-Cal.C	20	10 26-Oct-22 A	01-Dec-22	-386	50%		- Wearing Course to all remaining	
LC23350-01A20 Road Works - Friction Course to all remaining areas	P2-Cal.C	20	20 18-Nov-22 A	13-Dec-22	-391	0%	-R	ac Works - Friction Course to all re	i i
LC23350-02 Road Furniture (S200 CH755 - S200 CH674/S400 CH158/S100 CH280/S300 CH403)	P2-Cal.C	16	16 16-Nov-22 A	17-Dec-22	-395	0%			00 CH674/S400 CH158/S100 CH280
LC23355-10 Drainage works (S300 CH403 - S300 CH355 and S400 CH158 - S300 CH326) (C1 alternative access)	P2-Cal.C	26	10 07-Mar-22 A	02-Dec-22	-388	61.54%	L Drainage v	orks (S300 CH403 - S300 CH355 a	and S400 CH158 - S300 CH326) (C1
LC23355-20 Backfill from drainage to formation level (S300 CH403 - S300 CH355 and S400 CH158 - S300 CH326) (6 Bays x 9 x1layer/d)	P2-Cal.C	54	18 16-Aug-22 A	10-Dec-22	-393	66.67%	Bac	fill from drainage to formation level	(S300 CH403 - S300 CH355 and S4
LC23455 BS Road lighting ducts for C1 (S300 CH403 - S300 CH355 and S400 CH158 - S300 CH326)	P2-Cal.C	6	6 12-Nov-22 A	13-Dec-22	-393	0%		Boad lighting ducts for C1 (S300	CH403 - S300 CH355 and S400 CH
U-Trough C Structures	P2-Cal.C	275	26 14-Feb-22 A	20-Dec-22	-397				
"U-Trough C Type 1, 2, 3 & 4" from CT01 CH117.156 - CH366	P2-Cal.C	275	26 14-Feb-22 A	20-Dec-22	-397				
Footpath, Cycle Track, Road and Drainage Works CT01 CH117.156 - CH366	P2-Cal.C	275	26 14-Feb-22 A	20-Dec-22	-397				
LC24113-20 Backfill to formation of cycle track and footpath	P2-Cal.C	22	11 21-Apr-22 A	02-Dec-22	-424	50%	Backfill to	ormation of cycle track and footpath	
LC24113-30 Cycle track - subbase and pavement	P2-Cal.C	12	6 20-May-22 A	02-Dec-22	-424	50%	Cycle track	subbase and pavement	
LC24114 Drainages and manholes between Bay 15 and Bay 21 (4 nos)	P2-Cal.C	34	2 02-May-22 A	22-Nov-22	-429	94.12%	laçes and ma	no es between Bay 15 and Bay 21	(4 nos)
LC24115 Remaining Backfilling from drainage level to formation between Bay 1 - 21 (4.25mPD to 7.84mPD) (5 Bays x 8 x1layer/d)	P2-Cal.C	40	2 20-Jul-22 A	22-Nov-22	-429	95%	airing Backfil	ing from drainage level to formation	between Bay 1 - 21 (4.25mPD to 7.8
LC24115-01 Civil Provisions for Waterproof MCCB and Public Lighting Pillar Box to Power Supply (PMI196 and 248)	P2-Cal.C	20	1 14-Feb-22 A	21-Nov-22	-420	95%	Provisions for	Waterproof MCCB and Public Light	ng Pillar Box to Power Supply (PMI1
LC24115-02 Installation of MCCB Board in Pillar Box (By others) (PMI196 and 248)	P2-Cal.C	10	2 03-Oct-22 A	23-Nov-22	-420	80%	Illation of MC	B Board in Pillar Box (By others) (F	PMI196 and 248)
LC24115-03 TCSS cross road ductings, TCSS drawpits (PMI 248)	P2-Cal.C	10	2 15-Oct-22 A	25-Nov-22	-420	80%	SS cross roa	d.ctings, TCSS drawpits (PMI 248))
Actual Work Milestone NE/2015/02 Tseung Kwan O - L		bad	3 M	onthly Rollin	g Progra	mme Update	Dat 20-Nov-2		Checked Approved
Remaining Work \diamond Last Month Milestone P2 and Associated	d Works			(Data Date		·	20-1100-1		
Critical Remaining Work Last Month Baseline				Page	e:7 of 11	l			

LC24115-06 LC24115-16 LC24116 LC24120 LC24130	BS Road lighting ducts CT01 CH117 - CH270 Lay FS Direct Link ducts Installation of ballustrade along CT01	P2-Cal.C P2-Cal.C	Duration 7 4	Dur 7 19-Oc 4 10-Nc		-430	Complete 0%		ov	BS	TA
LC24116 LC24120		P2-Cal.C	4	4 10-No	00.4 00.1 00						
LC24120	Installation of hallustrade along CT01			4 10-110	v-22 A 26-Nov-22	-428	0%	│ ∖¦	╞╡╼	Lay	FS
	installation of balldstrade along of of	P2-Cal.C	24	24 10-Nc	v-22 A 20-Dec-22	-397	0%				Ë
LC24130	Drainage Works at CT-01 CH117.156 - CH366	P2-Cal.C	28	24 10-No	v-22 A 17-Dec-22	-437	14.29%		╞┥═╸	╈┿┩	╞
	Booster Pump Chamber at CT01 U-Trough Structure (PMI No. 402)	P2-Cal.C	20	20 18-No	v-22 A 17-Dec-22	-436	0%		┟┓ <u></u>	╈┿┩	┢
ssoicated W	orks - VE and PC Panels Installation	P2-Cal.C	291	24 05-Ja	17-Dec-22	-395					
.C25210	VE and PC Panels Installation for Internal wall of underpass structure CH105 - CH363	P2-Cal.C	42	20 08-Ap	r-22 A 15-Dec-22	-393	52.38%		┢╍┙┍╍	╨╜	╞
_C25210-00	VE Panels Installation for Internal wall of underpass structure CH105 - CH363 (Remaining high level		12	20 17-Au		-393	0%				-
-C25210-00-10	VE and PC Panels Installation for Internal wall of underpass structure CH941 - CH997	P2-Cal.C	36	20 11-Ap	-	-391	44.44%			Щ	L
				•						Ш	
C25210-00-20	VE and PC Panels Installation CH363 - CH387 Feature Wall at W1 and W2	P2-Cal.C	10	20 05-Se		-391	0%	2			
25210-01	VE and PC Panels for Internal wall of U-trough structure at P2 CH363 - 411 and SR2 CH110 - 170	P2-Cal.C	24	15 12-Au		-395	37.5%				
25210-02	VE and PC Panels Installation CH941 - CH917 Feature Wall at W1 and W2	P2-Cal.C	10	20 10-Oc	t-22 A 17-Dec-22	-395	0%				
C25210-04	VE Panels for Internal wall of S200 CH821 to CH941	P2-Cal.C	24	19 09-Ma	r-22 A 14-Dec-22	-391	20%				I
25210-05	VE Panels for Internal wall of U-trough structure SR2 CH200 - 250 and P2 CH430-500 (VE and PC R	Panel) P2-Cal.C	30	20 05-Ja	14-Dec-22 A	-392	33.33%		┢╸┥╺━╸	ŤŤŤ	l
soicated Wo	orks		115	26 04-Ju	-22 A 20-Dec-22	-397					
25221	Completion of VE and PC Panels	P2-Cal.C	0	0	17-Dec-22	-395	0%		•		
225225	Drainage Cover and Road Pavement Works (P2 Reclaimed Section)	P2-Cal.C	18	18 18-Nc	v-22 A 19-Dec-22	-396	0%				
25230	Drainage Cover and Road Pavement Works (P2 Land Section)	P2-Cal.C	23	20 18-No	v-22 A 19-Dec-22	-396	13.04%	·	┢╺Ӈ┈ _┛		ĺ
25550-15	Remaining PE DN 250 Watermain Laying and Connection works at SR2	P2-Cal.C	5	5 15-De	c-22 20-Dec-22	-397	0%		Π		
25555-06	Installation of permanent strainers (PMI341)	P2-Cal.C	10	5 05-Oc	t-22 A 25-Nov-22	-392	50%			nsta	1
25555-15	Installation of flowmeters for watermains (PMI341A)	P2-Cal.C	10	10 17-Oc		-392	0%				
C25555-18	final water sampling test	P2-Cal.A	7	7 08-No		-481	0%				
	Construction of Maintenance Access (SSK0726 and SSK0727) (R017596)										
225600		P2-Cal.C	60	26 04-Ju		-397	56.67%				l
25600-01	Construction of Drainage for Maintenance Access (SSK0728) (R017596)	P2-Cal.C	10	10 18-Ju		-397	0%				
	nd Section	P2-Cal.C	284	57 16-Fe		-428					
Road		P2-Cal.C	100	24 20-Ju	-22 A 17-Dec-22	-395					
2 CH 318 - 36	33	P2-Cal.C	16	9 21-Oc	t-22 A 01-Dec-22	-431					
&M Works - I	Electrical Installation	P2-Cal.C	16	9 21-Oc	t-22 A 01-Dec-22	-431					
C13476	Support Installation and Cable Containment Installation for Grid Beam S200 CH941 - P2 CH105	P2-Cal.C	10	5 21-Oc	t-22 A 26-Nov-22	-427	50%		┝┥╺━╴	t e sup	í
C13478	Cable Installation & Lighting Installation, Small Power Installation for Grid Beam S200 CH941 - P2 C	H105 P2-Cal.C	5	5 08-Nc	v-22 A 01-Dec-22	-429	0%	∖ ्ष्य≁	╞ ╡──╹		ł
C13478A	Completion of Small Power and similar Installation at all areas	P2-Cal.C	0	0	18-Nov-22 A		100%		Comp	pletici	1
CH 363 - 41	1	P2-Cal.C	100	24 20-Ju	-22 A 17-Dec-22	-395					
tructure P2 (CH 363 - 411 (U Trough B) (Team 9 & 10)	P2-Cal.C	100	24 20-Ju	-22 A 17-Dec-22	-395				-	ſ
C14450	Construction of insitu Concrete Profile Barriers (NCE193 et al)	P2-Cal.C	24	24 21-Oc	t-22 A 17-Dec-22	-395	0%		 	╇┿┿	
C14530	Waterproofing, backfilling, construction of drainage and remove sheetpile	P2-Cal.C	30	15 20-Ju	-22 A 07-Dec-22	-548	50%			╇	P
	Electrical Installation	P2-Cal.C	21	11 21-00		-431					
C14532	Support Installation and Cable Containment Installation for Grid Beam S200 CH941 - P2 CH105	P2-Cal.C	10	5 21-00		-425	50%				Ι.
										l"Supp	ч
C14535	Cable Installation & Lighting Installation, Small Power Installation for Grid Beam S200 CH941 - P2 C		5	5 14-No		-429	0%				
C14535A	Completion of Small Power and similar Installation at all areas	P2-Cal.C	0	0	18-Nov-22 A		100%		Comp	oletio	1
											-
Actual \	Work Milestone NE/20 NE/20)15/02 Tseung Kwan O - Lam Tin Tunnel - I	Road		3 Monthly Rollin		-	late			
	Remaining Work Last Month Baseline	P2 and Associated Works			(Data Date Page	e: 20 No e: 8 of 1	-				

				2023	
1	ducto	Jan CT01 CH117 -	CH270	Feb	Mar
	ducts		58270		
		lation of ballustra	ide along	CT01	
	ainag	ge Works at CT-0	1 CH117.	156 - CH366	
R	coster	Pump Chambe	at CT01	J-Trough Structur	re (PMI No. 402)
Æ	and F	C Panels Install	ation for Ir	ternal wall of und	lerpass structure CH
Ē	Pane	Is Installation for	Internal w	all of underpass s	structure CH105 - C
h	d PC	Panels Installat	ion for Inte	rnal wall of unde	rpass structure CH9
a	d PC	Panels Installat	ion CH36	3 - CH387 Featur	e Wall at W1 and W
V	l and	PC Panels for Ir	iternal wa	of U-trough strue	cture at P2 CH363 -
V	and	PC Panels Insta	llation CF	941 - CH917 Fea	ature Wall at W1 an
T	anels	s for Internal wall	of S200 C	H821 to CH941	
	anel	s for Internal wal	of U-trou	h structure SR2	CH200 - 250 and P2
ľ		tion of VE and P			
					Reclaimed Section
				ment Works (P2	
		-		ain Laying and Co	onnection works at \$
		strainers (PMI34			
		owmeters for wat	ennanis (i	WII34TA)	
			nance Ac	cess (SSK0726 a	and SSK0727) (R01
Ц.					s (SSK0728) (R017
					- (/ (-
li pi	n and	Cable Containm	ent Install	ation for Grid Bea	ım S200 CH941 - P2
at	on &	Lighting Installat	ion, Small	Power Installatio	n for Grid Beam S2
сv	er an	d similar Installa	ion at all a	ireas	
╢					
¢	Instru	iction of insitu Co	oncrete Pr	ofile Barriers (NC	CE193 et al)
rþ	ofing,	backfilling, const	ruction of	drainage and rem	nove sheetpile
i pi	n and	Cable Containm	ent Install	ation for Grid Bea	ım S200 CH941 - P2
a li	ation 8	& Lighting Install	ation, Sma	I Power Installat	ion for Grid Beam S
сv	rer an	d similar Installa	ion at all a	areas	
e		Revisio	n l	Checked	Approved
e 22	2	MPU		Uneoneu	, 'bbi 0160

Activity ID	Activity Name	Calendar	Original Duration	Remaining Start Dur	Finish	Total Activity % Float Complete	Nov	202	22	ec	Ja		2023 Feb Mar
Remaining V	forks	P2-Cal.C	6	6 25-Oct-22 A	26-Nov-22	-428					Ja		
LC20910-20	BS Installation on sign face ADS22	P2-Cal.C	6	6 25-Oct-22 A	26-Nov-22	-428 0%		BS	Installation	n on sign f	ace ADS22		
SR2		P2-Cal.C	109	26 20-Jul-22 A	20-Dec-22	-397							
SR2 CH110 -	170	P2-Cal.C	69	15 20-Jul-22 A	07-Dec-22	-386							
Structure SF		P2-Cal.C	20	15 20-Sep-22 A	07-Dec-22	-396							
LC16490	Construction of insitu Concrete Profile Barrier for utility trough (3 moulds) (NCE193 & NCI		20	15 20-Sep-22 A	07-Dec-22	-396 25%			Cons	truction of	insitu Concrete	Profile Bar	rier for utility trough (3 moulds) (NCE
		P2-Cal.C	15	15 20-Jul-22 A	07-Dec-22	-386						i i onio Edi	
	ection 5 of the Works - Landscaping Works												
LC16530	Backfilling to Formation Level and Removal of Sheet Piles	P2-Cal.C	15	15 20-Jul-22 A	07-Dec-22	-386 0%			Баск	iii ing to F	ormation Level	and Remov	al of Sheet Piles
SR2 CH170 -	250	P2-Cal.C	10	10 07-Nov-22 A	19-Dec-22	-396							
Structure SF	I2, NCE	P2-Cal.C	10	10 07-Nov-22 A	19-Dec-22	-396							
LC90670	Construction of insitu Concrete Profile Barrier (CH170-CH180) (2 moulds) (NCE193 & NC	P2-Cal.C	10	10 07-Nov-22 A	19-Dec-22	-396 0%				Cons	truction of insitu	Concrete F	rofile Barrier (CH170-CH180) (2 moi
Road and Dr	ainage & Utilities Works (P2 CH318 - 650 & SR2 CH100 - 310)	P2-Cal.C	5	5 07-Nov-22 A	20-Dec-22	-397							
LC17600	Type II Railing Installation (P2 CH318 - 500)	P2-Cal.C	5	5 07-Nov-22 A	20-Dec-22	-397 0%			'	Гуре	II Railing Instal	lation (P2 C	H318 - 500)
Portion IV & \		P2-Cal.C	79	57 26-Sep-22 A	27-Jan-23	-428						-	
Construction	of DN2100 stormwater at Portion IV & VII	P2-Cal.C	79	57 26-Sep-22 A	27-Jan-23	-428							
Drainage wo	rks, after FSD	P2-Cal.C	79	57 26-Sep-22 A	27-Jan-23	-428							
SMH9108-SM	19108A	P2-Cal.C	79	57 26-Sep-22 A	27-Jan-23	-428							
LC17718	Installation of sheetpile	P2-Cal.C	10	2 26-Sep-22 A	22-Nov-22	-395 80% -		📕 Instal	ation of she	etpile			
LC17719	Trench Excavation and Strut Installation for Constrcution of Dia 2100 Drain Pipe	P2-Cal.C	14	2 10-Oct-22 A	24-Nov-22	-395 85.71%		Tren	ich Excavat	ion and S	rut Installation 1	or Constrcu	tion of Dia. 2100 Drain Pipe
LC90622	Bedding And Inspection	P2-Cal.C	10	10 31-Oct-22 A	06-Dec-22	-395 0%				ng And Ins		001104.00	
											spection		
LC90623	Manhole construction (SMH9108A) (Delay due to C1 Access)	P2-Cal.C	30	30 22-Dec-22	27-Jan-23	-590 0%		>					anhole construction (SMH9108A) (D
LC90625	Pipe Laying (SMH9108A)	P2-Cal.C	16	16 11-Nov-22 A	08-Dec-22	-387 0%			Pipe		MH9108A)		
LC90626	Inspection & Backfill	P2-Cal.C	15	15 03-Dec-22	20-Dec-22	-397 0%				nspe	ection & Backfill		
Related to se	ction 5 of the Works - Landscaping Works	P2-Cal.C	268	26 16-Feb-22 A	20-Dec-22	-437							
LC17728	Cycle Track and Footpath Paving	P2-Cal.C	35	11 16-Feb-22 A	02-Dec-22	-437 70% -			Cycle Tra	i <mark>ck ar</mark> d Fo	otpath Paving		
LC17730	Planter Works	P2-Cal.C	25	20 15-Nov-22 A	20-Dec-22	-437 20%				Plan	er Works		
LC17732	Road Marking, Lighting and Signages	P2-Cal.C	16	16 01-Nov-22 A	08-Dec-22	-427 0%			Roa	d Marking	Lighting and S	gnages	
LC17734	Tree and Shrub Planting	P2-Cal.C	30	16 01-Nov-22 A	20-Dec-22	-437 48.33%			╞╍┿╼╍╸	Tree	and Shrub Plar	ting	
Section 4	of the Works - Preservation and Protection of Existi	ng Trees P2-Cal.A	1563	28 12-Jan-17 A	20-Dec-22	-530						-	
LC25260	Preservation and Protection of Existing Trees	P2-Cal.A	1451	26 12-Jan-17 A	20-Dec-22	-530 98.21%				Pres	ervation and Pro	otection of E	xisting Trees
LC25280	Nursery Transplanted Trees at the Contractor's holding nursery	P2-Cal A	1177	28 02-Feb-18 A	20-Dec-22	-530 97.62%				Nurs	ery Transplante	d Trees at t	e Contractor's holding nursery
Section F	of the Works - Landscaping Works	P2-Cal.C	167	91 25-Jul-22 A	08-Mar-23	-462	/	1					
		P2-Cal.C	142	66 09-Aug-22 A	07-Feb-23	-437							
		P2-Cal.C	62	26 11-Oct-22 A	20-Dec-22	-437							
	2 CH 105 - 318									a vatio for	Footpath & Bac		ation level
LC26010	Excavatin for Footpath & Backfill for Formation level	P2-Cal.C	20	15 19-Oct-22 A	09-Dec-22	-592 25%					i uuipain & Bac		
LC26020	subbase	P2-Cal.C	10	5 09-Nov-22 A	03-Dec-22	-561 50%			subbase				
LC26030	Kerb Installation	P2-Cal.C	5	3 15-Nov-22 A	03-Dec-22	-561 40%	───────		Kerb Ins				
LC26050	Planter Walls and u-channels	P2-Cal.C	20	20 28-Nov-22	20-Dec-22	-570 0%				Plan	er Walls and u-	channels	
LC26070	Construction of footpath for Landscape Works	P2-Cal.C	13	5 15-Nov-22 A	06-Dec-22	-561 61.54%	- "{=		Const	ruction of	ootpath for Lan	dscape Wo	rks
							A	1 I I	++ +			· · ·	
	I Work Milestone	NE/2015/02 Tseung Kwan O - Lam Tin Tunnel -	Road	3 M	•	ng Programme Upd	ate		20-Nov	ate /-22	Revisi MPU	on	Checked Approved
	ining Work	P2 and Associated Works			,	te : 20 Nov 2022)							
					Pag	ge : 9 of 11							

Activity ID	Activity Name	Calendar Orig Dura	inal Remaining Start	Finish	Total Activity % Float Complete Nov	2022 2023 2023 Mar
LC26090	Remaining Watermain at SR2	P2-Cal.C	5 5 15-Dec-22	20-Dec-22	-570 0%	Remaining Watermain at SR2
LC26100	Cycle Track (Remaininng)	P2-Cal.C	5 5 15-Dec-22	20-Dec-22	-570 0%	Cycle Track (Remaining)
LC26110	Installation of ballustrade & Type 2 Railing	P2-Cal.C	20 10 17-Nov-22 A	12-Dec-22	-561 50%	Installation of ballustrade & Type 2 Railing
LC26130	Installation of ducting and road lighting	P2-Cal.C	12 6 17-Nov-22 A	20-Dec-22	-570 50%	nstallation of ducting and read lighting
General & Irr	igation pipe	P2-Cal.C	43 26 11-Oct-22 A	20-Dec-22	-437	
LC28740	General fill (about 1.5m) above underpass before laying of irrigation pipe	P2-Cal.C	17 12 11-Oct-22 A	03-Dec-22	-592 29.41%	General fill (apout 1.5m) above underpass before laying of irrigation pipe
LC28760	Laying of irrigation pipe above underpass	P2-Cal.C	15 5 19-Oct-22 A	15-Dec-22	-599 66.67%	winderpass
LC28790	Landscape deck drainage	P2-Cal.C	12 12 07-Dec-22	20-Dec-22	-437 0%	
Portion V - E	VA	P2-Cal.C	45 26 26-Oct-22 A	20-Dec-22	-397	
LC18455-15-1	Portion V - EVA subbase and concrete paving, after FSD	P2-Cal.C	10 10 21-Nov-22	01-Dec-22	-390 0%	Portion V - CVA subbase and concrete paying after FSD
LC18462-01-1	Construction of EVA, after FSD	P2-Cal.C	9 9 10-Dec-22	20-Dec-22	-397 0%	Construction of EVA, after FSD
LC25810	Portion V - Backfill to formation of EVA adjacent to plant room at Portion V (+3.5 to 6.8mPD, after FSD	P2-Cal.C	15 15 26-Oct-22 A	07-Dec-22	-547 0%	Portion V - Backfill to formation of EVA adjacent to plant room at Portion V (+3.
LC25830	General fill (about 1m) under EVA after FSI	P2-Cal.C	15 15 18-Nov-22 A	A 17-Dec-22	-599 0%	aneral fill (about 1 m) under EVA after FSI
LC25850	Constuction of EVA after FSI	P2-Cal.C	15 15 18-Nov-22 A	A 20-Dec-22	-599 0%	Constuction of EVA after FSI
Chain Link F	ence next to Plant Rooms	P2-Cal.C	42 66 09-Aug-22 A	07-Feb-23	-590	
LC25710	Procurement of Chain Link Fence & Emergency Crash Gates	P2-Cal.C	5 10 09-Aug-22 A	A 01-Dec-22	-576 0%	Procurement of Chain Link Fence & Emergency Crash Gates
LC25730	Removal of Temporary Hoarding	P2-Cal.C	15 15 06-Dec-22	22-Dec-22	-599 0%	Removal of Temporary Hoarding
LC25750	Excavation for Footing for Chain Link Fence & Emergency Crash Gates	P2-Cal.C	20 20 21-Dec-22	14-Jan-23	-599 0%	Excavation for Footing for Chain Link Fence & E
LC25770	Construction of Footing for Chain Link Fence & Emergency Crash Gates	P2-Cal.C	18 18 31-Dec-22	20-Jan-23	-599 0%	Canstruction of Footing for Chain Link Fence
LC25790	Installation of Chain Link Fence & Emergency Crash Gates	P2-Cal.C	20 20 16-Jan-23	07-Feb-23	-590 0%	Installation of Chain Link Fen
			104 62 05-Sep-22 A		-473	
	ardwork Summary					Construction of footpath
LC18462-00	Construction of footpath	P2-Cal.C	14 14 05-Dec-22	20-Dec-22	-437 0%	
LC24120-5	Construction of footpath at CT-01 CH117.156 - CH366	P2-Cal.C	17 17 30-Nov-22	19-Dec-22	-436 0%	Construction of footpath at CT-01 CH117.156 - CH366
LC25460	Landscape Hardworks for P2 Underpass Top Slab		41 16 19-Oct-22 A		-599 60.98%	andscape Hardworks for P2 Underpass Top Slab
LC25480	Landscape Hardworks for U-Trough C		70 26 05-Sep-22 A		-437 62.86%	andscape Hardworks for U-Trough C
LC25500	Landscape Hardworks for U-Trough A and B	P2-Cal.C	70 22 12-Sep-22 A		-548 68.57%	Landscape Hardworks for U-Trough A and B
LC25520	Landscape Hardworks (Remaining Area)	P2-Cal.C	48 18 19-Oct-22 A	20-Dec-22	-556 62.5%	Andscape Hardworks (Remaining Area)
LC90790	Landscape Hardworks for P2 Underpass Top Slab (for the part related to Temporary Artificial Lawn)	P2-Cal.C	35 35 22-Dec-22	02-Feb-23	-590 0%	Landscape Hardworks for P2 Und
Landscape	Softwork	P2-Cal.C	91 25-Jul-22 A	08-Mar-23	-502	
Landscape S	oftwork (Stage 1)	P2-Cal.C	91 25-Jul-22 A	08-Mar-23	-502	
LC25360	Landscape Softworks for P2 Underpass	P2-Cal.C	47 26 27-Oct-22 A	20-Dec-22	-437 44.21%	andscape Softworks for P2 Underpass
LC25380	Landscape Softworks for U-Trough C	P2-Cal.C	74 26 13-Sep-22 A	20-Dec-22	-437 64.86%	andscape Softworks for U-Trough C
LC25400	Landscape Softworks for U-Trough A and B	P2-Cal.C	50 22 17-Oct-22 A	15-Dec-22	-433 56%	Landscape Softworks for J-Trough A and B
LC25420	Landscape Softworks (Remaining Area)	P2-Cal.C	30 14 16-Nov-22 A	A 20-Dec-22	-437 53.33%	andscape Softworks (Remaining Area)
LC25421	Landscape Softworks (Related to Landscape Deck - Chain Link Fence)	P2-Cal.C	40 40 21-Jan-23	08-Mar-23	-599 0%	ands
LC25440	Installation of Water Points for Landscape Works	P2-Cal.C	101 19 25-Jul-22 A	20-Dec-22	-437 81.19%	nstallation of Water Points or Landscape Works
LC25650	Landscape Softworks (Remaining Tree & Shrub)	P2-Cal.C	15 15 20-Feb-23	08-Mar-23	-599 0%	- ands
Arrangemen	t of Landscaped Deck	P2-Cal.C	92 82 12-Oct-22 A	25-Feb-23	-590	
LC25580	Delivery of Short Grass for Temporary Artificial Lawn	P2-Cal.C	10 10 12-Oct-22 A	01-Dec-22	-599 0%	Delivery of Short Grass for Temporary Artificial Lawn
Rema	Il Work	O - Lam Tin Tunnel - Road iated Works	31	(Data Date	ng Programme Update e : 20 Nov 2022) : 10 of 11	Date Revision Checked Approved 20-Nov-22 MPU

ctivity ID	Activity Name	Calendar	Original	Remaining Start	Finish	Total	Activity %		2022		2023	
			Duration	Dur		Float	Complete	Nov	Dec	Jan	Feb	Mar
LC90690	Installation of Short Grass for Temporary Artificial Lawn (20 Nov 2022)	P2-Cal.C	11	0 11-Nov-22 A	20-Nov-22 A		100%		stallation of Short Grass fo	r Temporary Artificial Lav	vn (20 Nov 2022)	
LC90760	Removal of Temporary Artificial Lawn for Ground Works for Landscape Works	P2-Cal.C	21	14 28-Nov-22 A	21-Dec-22	-599	33.33%	<u>ل</u>	Remo	<mark>wal of Temporary Arti</mark> ficia	ll Lawn for Ground Wor	rks for Landsc
LC90770	Landscape Softworks (Remaining Tree & Shrub Planting)	P2-Cal.C	23	11 18-Nov-22 A	14-Dec-22	-544	52.17%	•	Landscape	Softworks (Remaining 1	ree & Shrub Planting)	
LC90780	Landscape Softworks (Landscape Deck, related to Temporary Artificial Lawn)	P2-Cal.C	25	25 28-Jan-23	25-Feb-23	-590	0%			ا	L	Landscape S
Section 6	of the Works - Establishment Works	P2-Cal.A	365	365 21-Dec-22	20-Dec-23	-532						
LC25540	Establishment Works	P2-Cal.A	365	365 21-Dec-22	20-Dec-23	-532	0%					

Actual Work	•
Remaining Work	\diamond

 Milestone Last Month Milestone Critical Remaining Work Last Month Baseline

NE/2015/02 Tseung Kwan O - Lam Tin Tunnel - Road P2 and Associated Works

ate	Revision	Checked	Approved
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NE2017/02

k Ahead Program	nme	
December -22	January -22	February -22
	e	x Ahead Programme December -22 January -22 A A A A A A A A A A A A A A A A A A A

	MRP Activity Name	Planned Duration	Remaining	Schedule % Start	Finish		Schedule Layout		Qtr 3, 2022			Qtr 4, 2022		(Qtr 1, 2023		Otr	07-Nov-2 2, 2023 Qtr
	Aduvity manie		Duration	Complete		IOLAITI	May	Jun Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		Vay Jun
E/2017/06-2 NE/2	2017/06 TKO-LTT TCSS_3MRP	99	48	0% 01-Sep-22 A	25-Dec-22		<mark>492</mark>											
	/ Contract Award / Commencement of Works	0	0	0%			0				 	1 1 1				1		
		3	0	0% 03-Oct-22 A	06-Oct-22 A						 	1						
NE/2017/06-2.AD		3	0									1 1 1						
NE/2017/06-2.AD.00	00 General .000.AD Access Date	3	0	0% 03-Oct-22 A 0% 03-Oct-22 A					1 1 1			1 1 1			1	1		
	Portion 1B of the Site	0	0	100% 03-Oct-22 A	00-0CI-22 A				1 		 	 		· · · · · · · · · · · · · · · · · · ·				
	Portion 2A of the Site	0	0	100% 06-Oct-22 A														
	Portion 5A of the Site	0	0	100% 06-Oct-22 A							1	1				1		
DWP10690	Portion 5C of the Site	0	0	100% 05-Oct-22 A								1				1		
NE/2017/06-2.KD	Key Date and Stages / Sections of the Achievement	11	11	0% 29-Nov-22	10-Dec-22	-{	-530					1				1		
NE/2017/06-2.KD.00		11	11	0% 29-Nov-22	10-Dec-22	-{	-530					 	 			י רי ו ו		
	.000.03 Key Date and Stages / Sections of the Achievement	11	11	0% 29-Nov-22	10-Dec-22	-{	-530											
DWP8100	KD1 - Stage 1A Works	0	0	0%	29-Nov-22*	-{	-519					1 1 1				1		
	KD3 - Stage 1C Works	0	0	0%	06-Dec-22*	-{	-527											
	KD4 - Stage 2A Works	0	0	0%	10-Dec-22*		-531											
	KD5 - Stage 2B Works	0	0	0%	02-Dec-22*		-522				1 1 1 1 1	1 1 1				1		
	KD6 - Stage 3 Works	0	0	0%	07-Dec-22*		-527					1				1		
	KD7 - Stage 4A Works	0	0	0%	05-Dec-22*		-525									1		
	KD8 - Stage 4B Works	0	0	0%	29-Nov-22*	-{	-520									1		
	Cost Centre Milestone Dates	39	39	0% 31-Oct-22	14-Dec-22	Ę	501				1		· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·	
NE/2017/06-2.MD.1		39	39	0% 31-Oct-22	14-Dec-22	Ę	501									1		
	0.1.1 CC B - Central System - TKOLTT	0	0	0%			0											
	1.1.2 CC B1 - Central System - CBL	0	0	0%			0					1				1		
	1.1.3 CC C - Traffic Control Devices - TKOLTT 1.1.4 CC C1 - Traffic Control Devices - CBL	0	0	0% 0%			0					1 1				1		
	1.4 CC CT - Traine Control Devices - CBL 1.5 CC D - Communication System - TKOLTT	0	0	0%			0					: ;	· · · · · · · · · · · · · · · · · · ·	,				
	1.1.6 CC D1 - Communication System - CBL	0	0	0%			0					1						
NE/2017/06-2.MD.	0.1.7 CC E - CCTV System - TKOLTT	0	0	0%			0				1	1			1	1		
	0.1.8 CC E1 - CCTV System - CBL	0	0	0%			0					1				1		
· · · · · · · · · · · · · · · · · · ·	0.1.9 CC F - Building PABX System - TKOLTT	0	0	0%			0					, , ,						
	0.1.11 CC G - ET System - TKOLTT 0.1.10 CC H - PA System - TKOLTT	0	0	0% 0%			0											
	0.1.12 CC I - Radio System - TKOLTT	0	0	0%			0					1				1		
	0.1.13 CC J - Detection System - TKOLTT	0	0	0%			0				1					1		
NE/2017/06-2.MD.	0.1.15 CC J1 - Detection System - CBL	0	0	0%			0					: : :						
	0.1.14 CC K - Manual Fallback System - TKOLTT	0	0	0%			0					1				1		
	0.1.16 CC L - Operation Facilities - TKOLTT	0	0	0%			0					1				1		
	0.1.17 CC M - Power Distribution System - TKOLTT 0.1.18 CC M1 - Power Distribution System - CBL	0	0	0% 0% 31-Oct-22	31-Oct-22		<u>0</u>				1	1				1		
	Complete order and delivery on Site of all equipment for Works	0	0	0%	31-Oct-22		-58				1					1		
	0.1.19 CC N - Speed Enforcement System - TKOLTT	0	0	0% 13-Nov-22	13-Nov-22	-{	-504				 					بــــــــــــــــــــــــــــــــــــ		
	Complete Site Commissioning Test	0	0	0%	13-Nov-22	-{	-504					1				1		
	0.1.20 CC N1 - Speed Enforcement System - CBL	41	41	0% 31-Oct-22	10-Dec-22		-99					1 1 1				1		
DWP10420	Complete order and delivery on Site of all equipment for Works	0	0	0%	31-Oct-22		-58				1							
	Complete Bench Acceptance Test	0	0	0%	10-Dec-22		-99								L		 	
	Complete Site Commissioning Test	0	0	0%	10-Dec-22		-99					1				1		
	0.1.21 CC O - Government Optical Fibre System - TKOLTT	0	0	0%			0				1	1				1		
	0.1.22 CC O1 - Government Optical Fibre System - CBL 0.1.23 CC P - Training and Documentation - TKOLTT	0	0	0% 0% 02-Nov-22	14-Dec-22		0				1	1						
	Acceptance of all Training Manuals	42	42	0% 02-NOV-22	02-Nov-22		-377					1				1		
	Acceptance of Operation and Maintenance Manuals	0	0	0%	14-Dec-22		584				 	 	 			ا لا ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ	· · · · · · · · · · · · · · · · · · ·	
	2.1.24 CC P1 - Training and Documentation - CBL	0	0	0%	TT BOO EE		0				1	1				1		
· · · · · · · · · · · · · · · · · · ·	1.1.25 CC Q - Comprehensive Maintenance Services and DLP - TKOLTT	0	0	0%			0					1				1		
NE/2017/06-2.MD.	1.26 CC Q1 - Comprehensive Maintenance Services and DLP - CBL	0	0	0%			0				1	 				1		
NE/2017/06-2.1 P	Preliminary	0	0	0%			0					1 1 1						
NE/2017/06-2.DS		99	48	0% 01-Sep-22 A	25-Dec-22		-81					 		1				
	SP Prepare / Submission of PSP for TKO-LTT TCSS and CBL TCSS	0	0	0%			0											
	SP Prepare / Submission of FSP For TKO-LTT TCSS and CBL TCSS	0	0	0%			0				1	1				1		
-	DS Preparation of Functional Design Specification (FDS)	0	0	0%			0		1 1 1			1 1 1						
	WD Software Development (except GUI) for TKO-LTT TCSS and CBL TCSS	0	0	0%			0		1 1 1			1						
	UI GUI Development for TKO-LTT TCSS and CBL TCSS	0	0	0%			0											
-	AT Preparation / Submission of FAT Procedures	0	0	0%			0				1	 				1		
NE/2017/06-2.DS.SC	CT Preparation / Submission of SCT Procedures	99	48	0% 01-Sep-22 A	25-Dec-22		-81					1						
NE/2017/06-2.DS.	SCT.1 Central System	56	56	070 01 OOK EE			-95									1		
	Preparation & Submission of Central System SCT Procedure	28	28		27-Nov-22		-95							Submission of Cer				LL
	Comment on SCT Procedure / Meeting With Engineer	28	28	0% 28-Nov-22	25-Dec-22		-95						G	Comment on SCT	Procedure / M	leeting With E	ngineer	
	SCT.2 Traffic Control Devices	0	0	0%			0											
	SCT.3 Communication System SCT.4 CCTV System	0	0	0% 0% 15-Sep-22 A	12 Oct 22 A		U					1				1		
	Approval of SCT Procedure	28	0	100% 15-Sep-22 A							Annrove	al of SCT Proce	edure			1		
	SCT.5 Building PABX System			0%	12 OU-22 A		0							· · · · · · · · · · · · · · · · · · ·				
	SCT.6 Emergancy Telephone System	0	0	0%			0		1		1	1			1	1		
NE/2017/06-2.DS.	SCT.7 Public Address System	28	28	0% 14-Nov-22	11-Dec-22		-565		1 1 1			1 1 1				1		
🔲 DWP8530	Approval of SCT Procedure	28	28	0% 14-Nov-22		-{	-565						Approva	I of SCT Procedur	re	1		
NE/2017/06-2.DS.	SCT.8 Radio System	0	0	0%			0				1							
	SCT.9 Detection System	28	28		11-Dec-22		- <mark>572</mark>					1						
	Approval of SCT Procedure	28	28	0% 14-Nov-22		-{	-572						Approva	l of SCT Procedur	re			
NE/2017/06-2 DS 9	SCT.10 Manual Fallback System Preparation & Submission of Manual Fallback System SCT Procedure	56	56		25-Dec-22	-	-544 544						Dremanual	Submission 51				
	LETERATATION & SUDDUISSION OLIVIANUAL FAIIDACK SYSTEM SCT PROCEDURE	28	28	0% 31-Oct-22	21-INOV-22		-544		1				reparation & \$	Submission of Mai	nual Fallback S	system SCI F	locedule	
								·	·					·			· · · ·	

TKO-LTT TCSS_3MRP	Planned Duration		Schedule % Start	Finish	Classic Sche Total Floa	t Qtr 2, 2022	2		Qtr 3, 2022		Qtr 4, 2022			Qtr 1, 2023	Qtr 2, 2023	07-Nov
		Duration	Complete			May	Jun	Jul	Aug	Sep Oct	Nov	Dec	Jan	Feb Mar Apr	May	Jun
DWP8630 Comment on SCT Procedure / Meeting With Engineer	28	28	0% 28-Nov-22	25-Dec-22	-544	4		1			 		Comment on SC	T Procedure / Meeting With Engineer		
NE/2017/06-2.DS.SCT.11 Operation Facilities	56	0	0% 01-Sep-22 A	26-Oct-22 A				J 	 	JJ I I I I I I I I	- I	 	·			
DWP8660 Preparation & Submission of Operation Facilites SCT Procedure	28	0	100% 01-Sep-22 A	28-Sep-22 A									ites SCT Procedu			
DWP8670 Comment on SCT Procedure / Meeting With Engineer	28	0	100% 29-Sep-22 A	26-Oct-22 A					1		Comment on S	SCT Procedure /	Meeting With E	hgineer		
NE/2017/06-2.DS.SCT.12 Power Distribution System	28	28	0% 14-Nov-22		-607	7										
DWP8730 Approval of SCT Procedure	28	28	0% 14-Nov-22		-607	7			i	; ; ; ;		Approv	al of SCT Proced	lure		
NE/2017/06-2.DS.SCT.13 Speed Enforcement System	14	14	0% 28-Nov-22		-556	6			8 8 8							
DWP8760 Resubmission of SCT Procedure	14	14	0% 28-Nov-22	11-Dec-22	-556	6			1		I	Resubr	nission of SCT P	rocedure		
NE/2017/06-2.DS.SCT.14 Optical Fibre system	0	0	0%		(0			1							
E/2017/06-2.DS.SAT Preparation / Submission of SAT Procedures	99	48	0% 01-Sep-22 A	25-Dec-22	-429	9										
NE/2017/06-2.DS.SAT.1 Central System	0	0	0%		(0				 						·
NE/2017/06-2.DS.SAT.2 Traffic control Devices DWP3150 Preparation & Submission of Traffic Control System SAT Procedure	28	0	0% 29-Sep-22 A 100% 29-Sep-22 A						1		Proporation 8			stem SAT Procedure		
NE/2017/06-2.DS.SAT.3 Communication System	28		0% 01-Sep-22 A		540								ianic Control Sys	stem SAT Procedule		
DWP3190 Preparation & Submission of Communication System SAT Procedure	28	28	100% 01-Sep-22 A		-010	0				Prenaration &	; Submission of		System SAT Pro	ocedure		
DWP3200 Comment on SAT Procedure / Meeting With Engineer	28	28	100% 01-Sep-22 A	-	-516	8			1				-	Meeting With Engineer, Comment on SAT	Procedure / Meet	ting With Enginee
NE/2017/06-2.DS.SAT.4 CCTV System	20	20	0%	27-1409-22	-510				·	JJ						
NE/2017/06-2.DS.SAT.5 Building PABX System	29	14	0% 08-Sep-22 A	11_Dec_22	-502	2			1							
DWP3280 Comment on SAT Procedure / Meeting With Engineer	28	0	100% 08-Sep-22 A		-002				1	Comment on SA	Frocedure / N	Viceting With En	dineer			
DWP3290 Resubmission of SAT Procedure	14	14	100% 23-Sep-22 A		-502	2			1				۰ ۲	rocedure, Resubmission of SAT Procedure		
NE/2017/06-2.DS.SAT.6 Emergancy Telephone System	26	14	0% 10-Sep-22 A		502	2			1 1 1							
DWP3320 Comment on SAT Procedure / Meeting With Engineer	14	0	100% 10-Sep-22 A							Comment on SA	T Procedure / N	Veeting With En	gineer			
DWP3330 Resubmission of SAT Procedure	14	14	100% 23-Sep-22 A	· ·	-502	2						-	-	rocedure, Resubmission of SAT Procedure		
NE/2017/06-2.DS.SAT.7 Public Address System	0	0	0%		(0										
NE/2017/06-2.DS.SAT.8 Radio System	88	28	0% 01-Sep-22 A	27-Nov-22	-479	9		- - - -								
DWP3390 Preparation & Submission of Radio System SAT Procedure	28	0	100% 01-Sep-22 A							Preparation &	Submission of	Radio System	SAT Procedure			
DWP3400 Comment on SAT Procedure / Meeting With Engineer	28	28	0% 31-Oct-22	27-Nov-22	-479	9		 ! !	 			Comment on	SAT Procedure /	Meeting With Engineer		
NE/2017/06-2.DS.SAT.9 Detection System	0	0	0%		(0										
NE/2017/06-2.DS.SAT.10 Manual Fallback System	0	0	0%		(D			1							
NE/2017/06-2.DS.SAT.11 Operation Facilities	0	0	0%		(0										
NE/2017/06-2.DS.SAT.12 Power Distribution System	0	0	0%		(0				, , , , , , , , , , , , , , , , , , ,						
NE/2017/06-2.DS.SAT.13 Speed Enforcement System	0	0	0%		(0										
NE/2017/06-2.DS.SAT.14 Optical Fibre system DWP3630 Preparation & Submission of Optical Fibre System SAT Procedure	56	56	0% 31-Oct-22	25-Dec-22	-558	8						Duon quation 9	Cubmission of C			
	28	28	0% 31-Oct-22	27-Nov-22	-558	8								ptical Fibre System SAT Procedure		
DWP3640 Comment on SAT Procedure / Meeting With Engineer	28	28	0% 28-Nov-22	25-Dec-22	-550	8			1			1	Comment on SA	T Procedure / Meeting With Engineer		
2017/06-2.EMT Equipment Manufacturing and FAT Stage for TKO-LTT TCSS	U	0	0%		(
2017/06-2.CST Construction Stage for TKO-LTT TCSS	87	48	0% 01-Sep-22 A	25-Dec-22	492	2			1							
2/2017/06-2.CST.S1A1B Works For Section 1A and Section 1B	87	48	0% 01-Sep-22 A	25-Dec-22	492	2										
NE/2017/06-2.CST.S1A1B.1A Stage 1A Works (ADB within Portion 1A)	12	12	0% 31-Oct-22	13-Nov-22	-401	1			1		1					
NE/2017/06-2.CST.S1A1B.1A.3 Administration Building	0	0	0%		(0			1							
NE/2017/06-2.CST.S1A1B.1A.1 Site Commissioning Test of Fibre Cable	14	14	0% 31-Oct-22	13-Nov-22	-474	4			i i 							
DWP4170 Fibre Cable Test (End to End)	14	14	0% 31-Oct-22	13-Nov-22	-474	4			1 1 1		Fibre	Çable Test (End	l to End)			
NE/2017/06-2.CST.S1A1B.1A.2 Sub-system Site Comissioning Test	7	7			-496											
DWP4280 SCT for Power Distribution Equipment	7	7	0% 31-Oct-22	06-Nov-22	-496	_						Power Distributio				
DWP4290 SCT for Comms, Equipment	6	6	0% 31-Oct-22	05-Nov-22	-495				1		1	omms, Equipmo	1 1			
DWP4300 SCT for PABX Equipment	6	6	0% 31-Oct-22	05-Nov-22	-495							ABX Equipment	t			
DWP4310 SCT for PA Equipment	7	7	0% 31-Oct-22	06-Nov-22	-496	-					SCT for F					
DWP4320 SCT for ET Equipment	6	6	0% 31-Oct-22	05-Nov-22	-495	-		1	1		SCT for E					
DWP4330 SCT for Radio Equipment	7	7	0% 31-Oct-22	06-Nov-22	-496	-			8 8 8			Radio Equipmen				
DWP4340 SCT for Operation Facilities Equipment	7	7	0% 31-Oct-22	06-Nov-22	-496	6			1		•	Operation Faciliti				
DWP4350 SCT for Manual Fallback Control Equipment	7	7	0% 31-Oct-22	06-Nov-22	-496	6			 		SCT for N	Nanual Fallback	Control Equipme	ent		
NE/2017/06-2.CST.S1A1B.1B Stage 1B Works (Tunnel, Underpass and Open Roads within Portion 1B)	80	48	0% 01-Sep-22 A	25-Dec-22	-462	2			1							
NE/2017/06-2.CST.S1A1B.1B.1 Installation of Cable Containment	0	0	0%		(0				. I I I I I I I I I						
NE/2017/06-2.CST.S1A1B.1B.2 Laying Cables	0	0	0% 01 Oct 22 A	25 Dec 99	(
NE/2017/06-2.CST.S1A1B.1B.3 Installation of Traffic Control Field Equipment DWP4520 VSLS on Gantry	42	56 14	0% 01-Oct-22 A 100% 06-Oct-22 A		-553	2		1 1	1 1			Son Gantry, VSL	S on Contry			
DWP4520 VSLS on Gantry DWP4530 Roadside VMS	14	14	100% 06-Oct-22 A 100% 15-Oct-22 A		-539				 				S on Gantry	<u>.</u>	/	· · · · · · · · · · · · · · · · · · ·
DWP4530 Roadside VMS DWP4540 Traffic Light Signal	14	14	14.29% 29-Oct-22 A		-539	_			1				ight Signal, Traff			
DWP4540 Trame Light Signal DWP4550 PVMS	14	14	14.29% 29-Oct-22 A 100% 01-Oct-22 A								PVM	1	_igin oigital, ITa∏ ¦			
	14				-553				1		1		l Cian Turnel Of	and Sign		
DWP4560 Tunnel Closed Sign	14	14	100% 15-Oct-22 A		-553	_							Sign, Tunnel Clo			
DWP4570 Tum-on Radio Sign	14	14	14.29% 29-Oct-22 A		-553						; 		n Radio Sign, Tun	·		· · · · · · · · · · · · · · · · · · ·
DWP4580 Manual Barrier	14	14	100% 13-Oct-22 A		-553	3							Manual Barrier, N	vianual Bamer		
NE/2017/06-2.CST.S1A1B.1B.3.2 FVMS-FVMS/101/A	3	1	0% 01-Oct-22 A		-499	9		1 1								
DWP44 Assembly of FVMS at nearby area	2	0	100% 01-Oct-22 A								FVMS at nea			en Contra		
DWP44 Erect the FVMS on Gantry	1	1	100% 03-Oct-22 A		-499	9		1	1		Lrect the F	vivio on Gantry,	Erect the FVMS	on Gantry		
NE/2017/06-2.CST.S1A1B.1B.3.1 FVMS- FVMS/102/A DWP44 Assembly of FVMS at Nearby Area	3	1	0% 04-Oct-22 A		-499	9				► A	of FVMS at Ne				·	
	2	U	100% 04-Oct-22 A					1	1				Erect the FVMS	on Contry		
DWP44 Erect the FVMS on Gantry	1	1	100% 06-Oct-22 A	UZ-INOV-22	-499							vivio on Gantry,		on Ganuy		
NE/2017/06-2.CST.S1A1B.1B.4 Installation of Leaky Cable and Radio Equipment NE/2017/06-2.CST.S1A1B.1B.5 Installation of CCTV	14	0	0% 0% 08-Sep-22 A	13-Sep-22.4												
DWP4600 Erect CCTV Highmasts	14	0	100% 08-Sep-22 A							Erect CCTV Highmas	ts					
NE/2017/06-2.CST.S1A1B.1B.6 Installation of Vehicle Detectors	41	11	-	-	-508	8			ı							÷
DWP4650 Erect Poles for OHVD	41	4	100% 01-Oct-22 A		-508						Frect Polo	s for OHVD Em	ct Poles for OHV	D		
DWP4650 DWP4660 OHVD	7	7	0% 03-Nov-22		-506	_								~		
NE/2017/06-2.CST.S1A1B.1B.7 Installation of ET Equipment insideTunnel			0% 03-NOV-22	10-1404-22	-506											
NE/2017/06-2.CST.S1A1B.1B.7 Installation of ET Equipment inside Tunnel NE/2017/06-2.CST.S1A1B.1B.8 Installation of PA Equipment	14	0	0% 0% 06-Oct-22 A	05-Nov 22	50	3			1 1 1							
DWP7790 Installation of PA Equipment	14	4	100% 06-Oct-22 A		-503	3					Installatio	n of PA Fauinm	ent, Installation c	of PA Equipment		
NE/2017/06-2.CST.S1A1B.1B.9 Installation of Enforcement Equipment		4	0% 01-Sep-22 A		-503								an, motaliation (er e		
DWP4665 Installation of Enforcement Equipment	5	2	100% 01-Sep-22 A		-499	_					Installation	of Enforcement	Fauinment Inst	allation of Enforcement Equipment		
	5	2	100% 01-Sep-22 A		-303							Tunnel, SEC ins				
DWP4670 SEC inside Tunnel	/				-494									· · · · · · · · · · · · · · · · · · ·	- 1	1

ivity Name S1A1B.1B.10 Installation of Control Cabinet Introl Cabinets for SEC S1A1B.1B.11 Local Cables Installation, Testing and Termination S1A1B.1B.12 Site Commissioning Test of TCD and fibre Cable T for Power Distribution Equipment T for ET inside Tunnel T for PA Equipment T for CCTV T for VD	Planned Duration 7 7 0 33 3 7 7 7 7	Duration 0 0 33 7 7	Schedule % CompleteStart0%01-Sep-22 A100%01-Sep-22 A0%00%31-Oct-22		Total Float	May	Jun	Qtr 3, 2022 Jul Aug	Sep	Qtr 4, 2022 Oct Nov Control Cabinets for	Dec Jan Feb	Mar	Qtr 2, 20 Apr May	Jun
ntrol Cabinets for SEC S1A1B.1B.11 Local Cables Installation, Testing and Termination S1A1B.1B.12 Site Commissioning Test of TCD and fibre Cable T for Power Distribution Equipment T for POWER Distribution Equipment T for PA Equipment T for CCTV	7 7 0 33 7 7 7 7	0 0 33 7 7	100% 01-Sep-22 A 0%			-,			F				, may	
ntrol Cabinets for SEC S1A1B.1B.11 Local Cables Installation, Testing and Termination S1A1B.1B.12 Site Commissioning Test of TCD and fibre Cable T for Power Distribution Equipment T for POWER Distribution Equipment T for PA Equipment T for CCTV	7 0 33 7 7 7 7	0 0 33 7 7	100% 01-Sep-22 A 0%							Control Cabinets for	SEC			·····
STATE Site Commissioning Test of TCD and fibre Cable T for Power Distribution Equipment T for ET inside Tunnel T for PA Equipment T for CCTV	0 33 7 7 7 7	0 33 7 7			0	-						1	and the second	1
STATE Site Commissioning Test of TCD and fibre Cable T for Power Distribution Equipment T for ET inside Tunnel T for PA Equipment T for CCTV	33 7 7 7 7	33 7 7	0% 31_0ct-22							: · · · · · · · · · · · · · · · · · · ·				
T for Power Distribution Equipment T for ET inside Tunnel T for PA Equipment T for CCTV	7 7 7	7	070 01-001-22	03-Dec-22	-523									
T for ET inside Tunnel T for PA Equipment T for CCTV	7	7	0% 12-Nov-22	19-Nov-22	-510			1		🗖 S0	CT for Power Distribution Equipment			
T for PA Equipment T for CCTV	7		0% 31-Oct-22	06-Nov-22	-497			1 1 1			ET inside Tunnel			
T for CCTV		7	0% 05-Nov-22	12-Nov-22	-503						or PA Equipment			
	7	7	0% 12-Nov-22	12-Nov-22	-505					1	CT for CCTV			
I for VD	7	7						1		i i	i i i			
	1	1	0% 12-Nov-22	19-Nov-22	-510			1 1 1			CT for VD			
T for OHVD	7	7	0% 12-Nov-22	19-Nov-22	-510					i	CT for OHVD			
T For SEC	7	7	0% 07-Nov-22	13-Nov-22	-504			' 		SCT	For SEC			
T for Weighbridge	7	7	0% 07-Nov-22	13-Nov-22	-504	1				SCT	for Weighbridge			
re Cable Test (End to End)	7	7	0% 26-Nov-22	03-Dec-22	-523			1			Fibre Cable Test (End to End)			
A1B.1C Stage 1C Works (EVB and WVB within Portion 1C)	75	37	0% 23-Sep-22 A	06-Dec-22	-497									
t of Cables (signal and power)	3	0	100% 03-Oct-22 A	06-Oct-22 A						Test of Cables (signal an	nd power)			
al Cables Installation , Testing and Termination	7	0	100% 03-Oct-22 A	10-Oct-22 A				1 1 1		Local Cables Installation	n, Testing and Termination			
S1A1B.1C.5 Site Commissioning Test of Fibre Cable	7	7	0% 03-Oct-22 A	06-Nov-22	-467									
re Cable Test (End to End)	7	7	100% 03-Oct-22 A		-467					Fibre Cat	ble Test (End to End), Fibre Cable Test (End to	End)		
S1A1B.1C.2 West Ventilation Building	10		0% 01-Oct-22 A									,		
tallation of PABX Equipment	10	0	100% 01-Oct-22 A							Installation of PABX Ed	quipment			
tallation of ET Equipment	10	0	100% 01-Oct-22 A			1				Installation of ET Equir				
	10	0			407	·····					' I I I I I I I I I I I I I I I I I I I	of Onomi-	cilitico Equismont	
tallation of Operation Facilities Equipment	10	U	100% 01-Oct-22 A		-497						of Operation Facilities Equipment, Installation		aoiities ⊏quipment	
S1A1B.1C.1 Sub-systems Site Commissioning Test	37	37		06-Dec-22	-527									
T for Power Distribution Equipment	7	7	0% 31-Oct-22	06-Nov-22	-497					i i	Power Distribution Equipment			
T for Comms, Equipment	7	7	0% 31-Oct-22	06-Nov-22	-497									
T for PABX Equipment	7	7	0% 31-Oct-22	06-Nov-22	-497				1 1 - 1					
T for PA Equipment	7	7	0% 31-Oct-22	06-Nov-22	-497					SCT for F	PA Equipment			
T for ET Equipment	7	7	0% 31-Oct-22	06-Nov-22	-497					SCT for E	ET Equipment			
	7	7	0% 05-Nov 22	11-Nov-22	_502					1 1				
	/ 7	1								i i				
		-			-497					1				
	1	1			-527			 		 	SCI for Manual Fallback Control Eqyu	oment	· · · · · · · · · · · · · · · · · · ·	
	68	30			-527									
	7	0	100% 23-Sep-22 A	29-Sep-22 A										
tallation of Communication Node Equipment	10	0	100% 29-Sep-22 A	10-Oct-22 A						Installation of Commun	nication Node Equipment			
tallation of ET Equipment	10	0	100% 29-Sep-22 A	10-Oct-22 A					1	Installation of ET Equip	pment			
tallation of Operation Facilities Equipment	14	7	100% 01-Oct-22 A	06-Nov-22	-504					Installatio	on of Operation Facilities Equipment, Installati	on of Operation	n Facilities Equipment	
tallation of TCS Computer Equipment	60	30			-527									
	60	30			-527			1	1			1	1 1 1 1	trol Equipment
			· · ·		-527				•					
T for Power Distribution Equipment	7	7		06-Nov-22	-327					SCT for F	Power Distribution Equipment			
• •	7	7												
		1						 						
		1								i i				
	7	7								I I I I I I I I I I I I I I I I I I I				
T for ET Equipment	7	7			-497					i i	i '' i i			
T for Radio Equipment	7	7	0% 10-Nov-22	16-Nov-22	-507									
T for Operation Facilities Equipment	7	7	0% 07-Nov-22	13-Nov-22	-504					SCT SCT	for Operation Facilities Equipment			
T for Manual Fallback Control Eqyuipment	7	7	0% 30-Nov-22	06-Dec-22	-527						SCT for Manual Fallback Control Eqyui	pment		
A1B.2A Stage 2A Works (Within Portion 2A)	61	36	0% 01-Oct-22 A	10-Dec-22	504									
ndover of Holding-down Bolts for Pole Foundation to Civil	1	1			628					Handover o	f Holding-down Bolts for Pole Foundation to 0	livil		
-	7	7			-431									
ST.S1A1B.2A.1.1 Installation of Cable Containment	0	0	0%		0				1					
ST.S1A1B.2A.1.2 Laying Cables	8	8		10-Nov-22	-510					 		- L		
re, Signal and Power Cables along Roadside	8	8			-510					Fibre S	Signal and Power Cables along Roadside. Fib	re, Signal and F	Power Cables along Roadsig	e
	15	7			-500									
· ·	5	2			-502						CS			
adside VMS	5	2												
	5	2				·····				· 	. <u>.</u>			
	5	3			-502						aysea oign, runnei Oosea oign			
	7	3			-496									
	4	0				1					-			
ct the FVMS on Gantry	3	3			-496	1				Erect the F	VMS on Gantry, Erect the FVMS on Gantry			
S1A1B.2A.3 Installation of CCTV	20	14			-507	· · · · · · · · · · · · · · · · · · ·								
sembly and erect CCTV Highmast for CCTV-TV/108/A	7	0	100% 01-Oct-22 A	07-Oct-22 A		-				· · · · ·				
TV-TV /108/A	3	3	100% 08-Oct-22 A	02-Nov-22	-507				1	CCTV-TV /	108/A, CCTV-TV /108/A			
embly and erect CCTV Highmast for CCTV-TV/247/C	3	0	100% 04-Oct-22 A	07-Oct-22 A						Assembly and erect CC	TV Highmast for CCTV-TV/247/C			
TV-TV /247/C	3	3	100% 07-Oct-22 A	05-Nov-22	-507					i				
	7	4			-507							raket for CCTV	in Underbass	
TV Camera	7				_507									
		5			-007									
						1	1				dor on Contry VD Detector on Contry			
		1			-500					i i	Lor on Gantry, vp Delector on Gantry			
	7	0												
VD	7	7			-500					OHVD, C)HVD			
S1A1B.2A.5 Installation of Control Cabinet	14	10			-531									
tallation of Control Cabinet	14	10	100% 08-Oct-22 A	16-Nov-22	-531					Inst	allation of Control Cabinet, Installation of Con	trol Cabinet		
S1A1B.2A.6 Local Cables Installation, Testing and Termination	50	20	0% 07-Oct-22 A	26-Nov-22	-520	1								
al Cables Installation , Testing and Termination	14	7			-510					Loc	al Cables Installation , Testing and Terminatic	n, Local Cables	s Installation , Testing and Te	rmination
oles Installation, Testing and Termination at TCSS Cabinet	3	2			-502					Cables	Installation, Testing and Termination at TCSS	Cabinet, Cables	s Installation, Testing and Te	mination at TCSS
re Cable Termination	10	- 10			-531			· · · · · · · · · · · · · · · · · · ·		! <mark> </mark>				
	32		0 % 00-1007-22	10-Dec-22	-531	1		1	1					
		1												
T fo T fo T fo T fo T fo T fo T fo T fo	br PABX Equipment br PAEx Equipment br PA Equi	ar PABX Equipment 7 7 r PA Equipment 7 7 r PA Equipment 7 7 r PA Equipment 7 7 r Clequipment 8 1 7 r Clequipment 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sr PAS Equipment 7 7 Sr PA Equipment 7 7 Sr E Equipment 7 7 sr Ratio Equipment Building 68 30 ation of Cammunication Node Equipment 10 0 ation of Cammunication Node Equipment 10 0 ation of CS Computer Equipment 60 30 ation of CS Computer Equipment 0 30 ation of Maratia Flatback Control Equipment 60 30 ation of Maratia Flatback Control Equipment 7 7 of Communication Nachibition Equipment 7 7 7 7 of Dealition E	ar PASE puppment 7 2 9 9 31-0a:22 Pr Regupment 7 7 9 9 41-0a:22 ar ET Equipment 7 7 9 0 45 31-0a:22 ar ET Equipment 7 9 7 0 46 31-0a:22 br Fatis Equipment 7 9 7 0 46 31-0a:22 br Annual Fathack Control Equipment 7 9 7 0 46 31-0a:22 attor of Equipment 7 9 7 0 46 31-0a:22 br Annual Fathack Control Equipment 7 9 7 0 46 31-0a:22 attor of Equipment 8ax attor of Camunalismiton Nude Equipment 10 0 0 0004 23-89:22A attor of Equipment 8ax attor of Camunalismiton Nude Equipment 10 0 0 0004 23-89:22A attor of Equipment 10 0 0 0004 23-89:22A attor of Equipment 10 0 0 0004 23-89:22A attor of Camunalismiton Nude Equipment 10 0 0 0004 23-89:22A attor of Camunalismiton Nude Equipment 10 0 0 0004 23-89:22A attor of Camunalismiton Nude Equipment 10 0 0 0004 23-89:22A attor of Camunalismiton Nude Equipment 10 0 1004 23-89:22A attor of Camunalismiton Statismiton 10 0 1004 23-89:22A attor of Camunalismiton Statismiton 10 0 1004 23-23A attor of Camunalismiton Statismiton 10 0 1004 23-23A attor of Camunalismiton 10 0 1004 23-23A attor of Camunalismiton 10 0 1004 23-23A attor of Camunalismiton 10 0 1004 31-04:22A attor of Camunalismiton 10 0 1004 31-04:22A attor of Camunalismiton 10 0 10 0 1004 31-04:22A attor of Camunalismiton 10 0 10 0 1004 31-04:22A attor attor 10 0 1004 31-04:22A attor 10 0004 10 1 0 0 1004 10 10 10 0 10 10 1004 10 10 10 10 10 10 10 10 10 10 10 10 10	nr PMX Equipment in F Equipment 7 7 7 0% 31-06-22 064-w-22 in F Equipment 7 7 7 0% 31-06-22 064-w-22 in F Equipment 7 7 7 0% 31-06-22 064-w-22 in F Equipment 7 7 7 0% 31-06-22 064-w-22 in F Equipment 7 7 7 0% 31-06-22 064-w-22 in F Equipment 7 7 7 0% 31-06-22 064-w-22 in F Equipment 7 7 7 0% 31-06-22 064-w-22 in F Equipment 7 7 7 0% 31-06-22 064-w-22 in F Equipment 7 7 7 0% 31-06-22 064-w-22 in F Equipment 8 10 0 0 100% 224-sep224 7 28-sep224 28-sep22	VP WAX Explorement 7 7 9% 31-Over2 044907 VP Explorement 7 7 9% 31-Over2 044907 VP Explorement 7 7 9% 31-Over2 044907 VP Explorement 7 7 9% 31-Over2 044907-22 44907 VP Bodd Explorement 7 7 9% 31-Over2 04490-22 44907 VP Bodd Explorement 7 7 9% 31-Over2 04490-22 4490 VP Concentric Sequence 7 0 110907-22-0044-022 4291 VP Concentric Sequence 7 0 110907-22-0044-022 4291 VP Concentric Sequence 7 0 110907-22-0044-022 4291 VP Concentric Sequence 00 00 00 00 100912-22-22 4291 VP Concentric Sequence 00 00 00 00 00 00 4291 4292 4291 VP Concentric Sequence 00 00 00 00 00 00 00 0	PARK Equipment 7 7 0% 310-22 04%-02 447 VF Equipment 7 7 0% 310-32 04%-02 447 V Exposition 7 7 0% 310-32 04%-02 447 V Exposition 7 7 0% 310-32 04%-02 447 V Exposition 10 0 100% 326-92-2 426 447 V Exposition 10 0 100% 326-92-2 426 447 V Exposition 10 0 100% 10-32 844+02 447 V Exposition 7 7 0% 310-322 844+02 447 V Exposition 7 7 0%	PRMC purport 7 7 00, 51-0.62 04-04-22 04-07 VFE Explored 7 7 00, 51-0.62 05-04-22 04-07 VFE Explored 7 7 00, 51-0.62 05-04-22 04-07 VFE Explored 7 7 00, 51-0.62 05-02 05-02 VFE Explored 7 7 00, 51-0.62 05-02 05-02 VFE Explored 00-01 00, 22-06-24 05-02 05-02 VFE Explored 00-01 00, 22-06-24 05-02 05-02 VFE Explored 00 00, 22-06-24 05-02 05-02 VFE Explored 7 7 00, 51-05-22 05-02 05-02 VFE Explored 7 7 00, 51-05-22 05-02 05-02 VF	windt sequent 7 7 0.0 16.452 0.407 1 T Calumed 7 7 0.0 15.052 0.407 1 T Calumed 7 7 0.0 15.052 0.407 1 T Calumed 7 7 0.0 15.052 0.407 1 C Calumed 7 7 0.0 15.052 0.407 1 C Calumed 7 7 0.0 15.052 0.407 1 Rub E Lagrant 7 7 0.0 10.002 0.002 0.002 1 Rub E Lagrant 10 0 10.001 0.002 0.002 0.002 0.002 1 Rub E Lagrant 10 0 10.001 0.002	NHAN Accornet / / No.22 00.0022 407 NH Captings / / No.3106.22 00.0022 407 NH Captings / / No.3106.22 00.0022 407 NH Captings / / No.3106.22 00.0022 407 No.00000 / / No.00022 00.0022 407 No.00000 / / No.00022 00.0022 407 No.00000 / / / No.00022 00.0022 00.0022 No.00000 / / / / No.0022 00.0022	In KDA Typeser T< T<	Signal	High Park Image Pa	constraint c i

	3MRP	tion D		0/10+	Liniah	Classic Sche				Otr 2, 2022	0+ 1 0000	014.0000		0+-0-0000	07-Nov
	Activity Name Planned Dura	ition Remair Dura		e % Start lete	Finish	Iotal Float	t Qtr 2, 2022 May	Jun	Jul	Qtr 3, 2022 Aug Sep	Qtr 4, 2022 Oct Nov	Qtr 1, 2023 Dec Jan Feb	Mar	Qtr 2, 2023 Apr May	Q Jun
DWP5750	SCT for Power Distribution Equipment	3	3	0% 08-Nov-22	11-Nov-22	-502	-	Jun	Jui	Aug Sep		pr Power Distribution Equipment	IVIAI	Api iviay	Jun
	SCT for FVMS, MLCS, VMS and TCS	3		0% 17-Nov-22	20-Nov-22	-510)		1 1 1		1 I I I I I I I I I I I I I I I I I I I	CT for FVMS, MLCS, VMS and TCS			
DWP5770		3		0% 17-Nov-22	20-Nov-22	-510	-					CT for CCTV			
DWP5780		3		0% 17-Nov-22	20-Nov-22	-510						CT for VD			
		3				-510	<u>/</u>		1 1 1		i i	i i i i			
DWP5840		3		0% 17-Nov-22	20-Nov-22	-510	_		1		1	CT for OHVD			1
	Fibre Cable Test (End to End)	14			10-Dec-22	-531						Fibre Cable Test (End to End)			
	ST.S1A1B.2B Stage 2B Works (Within Portion 2B)	53		0% 01-Oct-22 A		511									
	Handover of Holding-down Bolts for Pole Foundation to Civil	1	1	0% 31-Oct-22	01-Nov-22	628					Handover o	of Holding-down Bolts for Pole Foundation to Civ	il 		
	.CST.S1A1B.2B.1 Laying Cables (Fibre , Signal and Power)	21	21	0% 01-Oct-22 A	23-Nov-22	519			- 						1
DWP2315	Laying Cables (Fibre , Signal and Power)	24	9 10	00% 01-Oct-22 A	09-Nov-22	620			1 1 1		Laying	Cables (Fibre , Signal and Power), Laying Cable	s (Fibre , Sign	al and Power)	
The NE/2017/06	6-2.CST.S1A1B.2B.1.1 Installation of Cable Containment	8	8	0% 01-Oct-22 A	07-Nov-22	-523	1								
DWP53	Cable Containment on Gantry	8	8 10	00% 01-Oct-22 A	07-Nov-22	-523	1				Cable C	ontainment on Gantry, Cable Containment on G	antry		
H NE/2017/06	6-2.CST.S1A1B.2B.1.2 Laying Cables	14	14	0% 08-Oct-22 A	23-Nov-22	-441									
	Fibre, Signal and Power Cables along Roadside	14		00% 08-Oct-22 A		-441						Fibre, Signal and Power Cables along Roadside	, Fibre, Signal	and Power Cables along Roads	side
	.CST.S1A1B.2B.2 Installation of Leaky Cable and Radio Equipment	0		0%		0							, , j		1
	.CST.S1A1B.2B.3 Installation of CCTV	14		0% 01-Oct-22 A	06-Nov-22	-500			1 1 1		1 1 1				1
	Assembly and Erect CCTV Highmast for CCTV-TV/145/C	7		00% 01-Oct-22 A					1		Assembly and Frect CC	TV Highmast for CCTV-TV/145/C			
	CCTV-TV /145/C	7		00% 08-Oct-22 A		-500	-					/ /145/C, CCTV-TV /145/C			
		7										//145/C, CCTV-TV/145/C			
	.CST.S1A1B.2B.4 Installation of Vehicle Detectors	7		0% 01-Oct-22 A		-509	-		- 						1
DWP5360		1		00% 01-Oct-22 A	U4-INOV-22	-509	<u></u>		1		VD Detec	tor, VD Detector			
	.CST.S1A1B.2B.5 Installation of Control Cabinet	0		0%		0									
	.CST.S1A1B.2B.6 Local Cables Installation, Testing and Termination	0		0%		0									
	.CST.S1A1B.2B.7 Site Comissioning Test of TCD and Fibre Cable	28		0% 04-Nov-22	02-Dec-22	-522						<u>_</u>		· · · · · · · · · · · · · · · · · · ·	·····
	SCT for Power Distribution Equipment	3	3	0% 29-Nov-22	02-Dec-22	-522					i i	SCT for Power Distribution Equipment			
DWP5400	SCT for Radio	10	10	0% 14-Nov-22	23-Nov-22	-514			1			SCT for Radio			
DWP5410	SCT for CCTV	3	3	0% 29-Nov-22	02-Dec-22	-522	2		1 1 1			SCT for CCTV			
DWP5420	SCT for VD	14	14	0% 04-Nov-22	18-Nov-22	-509	ī				 so	CT for VD			
	Fibre Cable Test (End to End)	3		0% 29-Nov-22	02-Dec-22	-522	,				0.	Fibre Cable Test (End to End)			1
	ST.S1A1B.3 Stage 3 Works (Within Portion 3A)	80				-022								· · · · · · · · · · · · · · · · · · ·	
		1		0% 05-Sep-22 A		508			I I		1 11 1	fillelding down Belts for Data Francis it is a Cit	a		
	Handover of Holding-down Bolts for Pole Foundation to Civil	1		0% 31-Oct-22		628	'		I I		I Handover of	of Holding-down Bolts for Pole Foundation to Civ	I		
	.CST.S1A1B.3.1 Laying Cables (fibre , signal and power)	0		0%		0									
	.CST.S1A1B.3.2 Installation of Traffic Control Field Equipment	0		0%		0									
	.CST.S1A1B.3.3 Installation of CCTV	5		0% 05-Sep-22 A	·						i i 				· · · · · · · · · · · · · · · · · · ·
DWP6030	CCTV-TV /246/C	5	0 10	00% 05-Sep-22 A	10-Sep-22 A						TV /246/C				
NE/2017/06-2 .	CST.S1A1B.3.5 Installation of Control Cabinet	0	0	0%		0			1						
NE/2017/06-2.	.CST.S1A1B.3.6 Local Cables Installation, Testing and Termination	42	21	0% 10-Oct-22 A	30-Nov-22	-527									1
DWP5515	Local Cables Installation , Testing and Termination	14	10 10	00% 10-Oct-22 A	18-Nov-22	-527	·					cal Cables Installation , Testing and Termination	, Local Cables	Installation , Testing and Termit	nation
DWP5520	Cables Installation, Testing and Termination at TCSS Cabinet	14	11 78.6	66% 19-Oct-22 A	30-Nov-22	-527	- -		1			Cables Installation, Testing and Termination	at TCSS Cabir	et, Cables Installation, Testing	and Termination a
	Fibre Cable Termination	7		0% 14-Nov-22		-525						ibre Cable Termination			
	.CST.S1A1B.3.7 Site Comissioning Test of TCD and Fibre Cable	16			07-Dec-22	-527			- 1 1						
	SCT for Power Distribution Equipment	7		0% 21-Nov-22		-527			1 1 1		1 1 1	SCT for Power Distribution Equipment			1
		1					_		1 1 1		1				1
	SCT for TCS and JTI	3			03-Dec-22	-523			1			SCT for TCS and JTI			
DWP5560		1			07-Dec-22	-527	1	; 				SCT for CCTV			
	Fibre Cable Test (End to End)	14	14	0% 21-Nov-22	04-Dec-22	-525						Fibre Cable Test (End to End)			1
	ST.S1A1B.4A Stage 4A Works (Bridges within Portion 4A)	55	30	0% 01-Oct-22 A	05-Dec-22	510			1 1 1		1 1 1 1				
DWP5970	Handover of Holding-down Bolts for Pole Foundation to Civil	1	1	0% 31-Oct-22	01-Nov-22	628					Handover of the second seco	of Holding-down Bolts for Pole Foundation to Civ	il		
NE/2017/06-2.	.CST.S1A1B.4A.1 Laying Cables (fibre , signal and power)	0	0	0%		0									
NE/2017/06-2.	.CST.S1A1B.4A.2 Installation of Traffic Control Field Equipment	5	5	0% 02-Oct-22 A	06-Nov-22	-500			- 						
DWP5665	Roadside VMS	5	5 10	00% 02-Oct-22 A	06-Nov-22	-500		1	1 1 1		Roadsid	e VMS, Roadside VMS			
NE/2017/06-2.	.CST.S1A1B.4A.3 Installation of CCTV	59	29	0% 01-Oct-22 A	28-Nov-22	-522			1 1 1		1 1 1				
	Assembly and erect CCTV Highmast for CCTV-TV/201/A	7		00% 01-Oct-22 A		-522	2		1 1 1		Assembly a	nd erect CCTV Highmast for CCTV-TV/201/A, As	sembly and e	ect CCTV Highmast for CCTV-T	V/201/A
	CCTV-TV /201/A	5		0% 31-Oct-22	04-Nov-22	-522			- 1 1			-	-	-	
	Assembly and erect CCTV Highmast for CCTV-TV/202/A	7		0% 05-Nov-22	11-Nov-22	-522	_		1 1		a de la companya de l	nbly and erect CCTV Highmast for CCTV-TV/202	/A		
		5								1 		TV-TV /202/A		· · · · · · · · · · · · · · · · · · ·	
	CCTV-TV /202/A	5		0% 12-Nov-22	16-Nov-22	-522	-				i i i i i i i i i i i i i i i i i i i		10 1 - 1 -		- - -
	Assembly and erect CCTV Highmast for CCTV-TV/245/C	1		0% 17-Nov-22	23-Nov-22	-522	-				and the second se	Assembly and erect CCTV Highmast for CCTV-T	v/245/C		
	CCTV-TV /245/C	5	5		28-Nov-22	-522	' .					CCTV-TV /245/C			
	.CST.S1A1B.4A.4 Installation of Vehicle Detectors	14			13-Nov-22	-507									
DWP6100	Erect VD Pole for VD/202/A	7	7	0% 31-Oct-22	06-Nov-22	-507	1				Erect VD	Pole for VD/202/A			
DWP6110	VD/202/A	7	7	0% 07-Nov-22	13-Nov-22	-507	1				📕 VD/2	02/A			
	.CST.S1A1B.4A.5 Installation of Control Cabinet	0		0%		0									
	.CST.S1A1B.4A.6 Local Cables Installation , Testing and Termination	0		0%		0									
	.CST.S1A1B.4A.7 Site Comissioning Test of TCD and Fibre Cable	10			05-Dec-22	-525			- 1 1						
	SCT for Power Distribution Equipment	4		0% 26-Nov-22		-521		 	1			SCT for Power Distribution Equipment			
	SCT for VSLS and VMS	3			29-Nov-22	-520		<u>1</u>	!	· · · · · · · · · · · · · · · · · · ·		SCT for VSLS and VMS			
DWP5623		3		0% 29-Nov-22		-020	,		1			SCT for CCTV			
		0				-522					l l				
DWP5645		3		0% 26-Nov-22		-520					1 I I I I I I I I I I I I I I I I I I I	SCT for VD			
	Fibre Cable Test (End to End)	10		0% 25-Nov-22		-525						Fibre Cable Test (End to End)			
	ST.S1A1B.4B Stage 4B Works (Bridges within Portion 4B)	47		0% 01-Oct-22 A		612									
DWP6220	Handover of Holding-down Bolts for Pole Foundation to Civil	3	3	0% 31-Oct-22	02-Nov-22	626					Handover	of Holding-down Bolts for Pole Foundation to Ch	/il		
NE/2017/06-2.	.CST.S1A1B.4B.4 Installation of Vehicle Detectors	10	10	0% 31-Oct-22	09-Nov-22	-507			1 1						
	Erect VD Pole for VD/105/A	3		0% 31-Oct-22		-507	·		1 1 1		Erect VD F	Pole for VD/105/A			
		7		0% 03-Nov-22		-507	·				VD/10 5				1
DWP6210	.CST.S1A1B.4B.1 Insstallation of Control Cabinet	1		0% 01-Oct-22 A		-505									1
DWP6210	Installation of Control Cabinet	1							 			of Control Cobinet Installation of Co. 1. 1. C.	 \t	· · · · · · · · · · · · · · · · · · ·	
NE/2017/06-2.	Installation of Control Cabinet	1		00% 01-Oct-22 A		-505					Installation	of Control Cabinet, Installation of Control Cabine	et		
NE/2017/06-2.		40	12	0% 04-Oct-22 A		-507	_		1 1 1						
NE/2017/06-2. DWP7870 NE/2017/06-2.	.CST.S1A1B.4B.6 Local Cables Installation, Testing and Termination				00 Nov 00	-504	1	1				bles Installation (fibre, signal and power) along	Roadsida I or	al Cables Installation (fibre sid	nal and power) a
NE/2017/06-2. DWP7870 NE/2017/06-2.		3	3 10	00% 04-Oct-22 A	06-1107-22	-004			1						
NE/2017/06-2. DWP7870 NE/2017/06-2. DWP6145	.CST.S1A1B.4B.6 Local Cables Installation, Testing and Termination	3 3		00% 04-Oct-22 A 0% 10-Nov-22		-507	_					es Installation, Testing and Termination at TCSS			
NE/2017/06-2. DWP7870 NE/2017/06-2. DWP6145 DWP6145 DWP6150	CST.S1A1B.4B.6 Local Cables Installation , Testing and Termination Local Cables Installation (fibre , signal and power) along Roadside	3 3 7	3		12-Nov-22		,				Cable				
NE/2017/06-2. DWP7870 NE/2017/06-2. DWP6145 DWP6150 DWP6150	CST.S1A1B.4B.6 Local Cables Installation , Testing and Termination Local Cables Installation (fibre , signal and power) along Roadside Image: Cables Installation, Testing and Termination at TCSS Cabinet Fibre Cable Termination Image: Cables Installation	3 3 7 9	3 7	0% 10-Nov-22 0% 01-Nov-22	12-Nov-22 08-Nov-22	-507 -505	,				Cable	es Installation, Testing and Termination at TCSS			
NE/2017/06-2. DWP7870 NE/2017/06-2. DWP6145 DWP6150 DWP6160 NE/2017/06-2.	.CST.S1A1B.4B.6 Local Cables Installation , Testing and Termination Local Cables Installation (fibre , signal and power) along Roadside Cables Installation, Testing and Termination at TCSS Cabinet	3 3 7 9 3	3 7 9	0% 10-Nov-22 0% 01-Nov-22	12-Nov-22 08-Nov-22 16-Nov-22	-507					Cable	es Installation, Testing and Termination at TCSS			

/ity ID Activity Name	Planned Duration			Liniele	Tet-IFI 1		20	01-0-0000		Otr 4 0000	01-1 0000	-	1tr 0 0000	07-Nov-22 02:2
		Remaining Duration	Schedule % Start Complete	Finish	Iotal Float	t Qtr 2, 202 May		Qtr 3, 2022 Jul Aug	Sep Oct	Qtr 4, 2022 t Nov Dec	Qtr 1, 2023 Jan Feb Mar	Apr	2tr 2, 2023 May Jun	Qtr 3, 202
DWP6180 SCT for VD	4	4	0% 13-Nov-22	16-Nov-22	-507			i i i i i i i i i i i i i i i i i i i		SCT for VD				
DWP6190 Fibre Cable Test (End to End)	7	7	0% 08-Nov-22	15-Nov-22	-505	5				Fibre Cable Test (End to I	End)			
The NE/2017/06-2.SATT SAT for TKO-LTT TCSS	0	0	0%		0	0								
NE/2017/06-2.OPTT Operability Period Test for the TKO-LTT TCSS	0	0	0%		0	D								
The Image and th	0	0	0%		0	D								
T NE/2017/06-2.DOC1 Documentation Submission for TKO-LTT TCSS	45	45	0% 31-Oct-22	14-Dec-22	584	4								
DWP10780 System Description	6	6	0% 31-Oct-22	05-Nov-22	623					System Description				
DWP10800 System Administration Manual	11	11	0% 31-Oct-22	11-Nov-22	618	8				System Adminstration Man				·
DWP10820 Equipment Mainterance Manual	45	45	0% 31-Oct-22	14-Dec-22	584	4				Equipment	t Mainterance Manual			
NE/2017/06-2.TRT Training for TKO-LTT TCSS	20	0	0% 14-Sep-22 A	19 Oct 22 A	0									
NE/2017/06-2.EMC Equipment Manufacturing and Delivery for CBL TCSS	29	0		18-UCI-22 A										
NE/2017/06-2.EMC.1 Sub-systems Equipment Manufacturing And Delivery NE/2017/06-2.EMC.2 Assembly of Equipment in Control Cabinet	34	0	0% 0% 14-Sep-22 A	18 Oct 22 A	0									
DWP6620 Assembly of Equipment in Control Cabinet	34	0	100% 14-Sep-22 A							Assembly of Equipment in Control Cabi	net			
NE/2017/06-2.CSC1 Construction Stage for CBL TCSS	68	43	0% 01-Oct-22 A		496	6								
■ NE/2017/06-2.CSC1.S2A2B Works for Section 2A and Section 2B	68	43	0% 01-Oct-22 A	20-Dec-22	496	6								
NE/2017/06-2.CSC1.S2A2B.5A Stage 5 Works (Within Portion 5A)	60	35			505	5								
DWP6630 Handover of Holding-down Bolts for Pole Foundation to Civil	1	1		01-Nov-22	628	8	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	Handover of Holding-down Bolts			 	
DWP6660 Rectification of Civil provisions Defects by others	16	5	100% 06-Oct-22 A		-113	3				Rectification of Civil provisions	Defects by others, Rectification of Civil	provisions Defects by	others	
NE/2017/06-2.CSC1.S2A2B.5A.1 Laying Cables (fibre, signal and power)	1 6	16	0% 01-Oct-22 A 100% 03-Oct-22 A		-110	2				Laying Cables on Gantries	Laving Cables on Cantrias			
DWP6700 Laying Cables on Gantries DWP6710 Fibre, Signal and Power Cables along Roadside	16	0 16	100% 03-Oct-22 A		-102	3					, Laying Caples on Gantries er Cables along Roadside, Fibre, Signa	al and Power Cables a	long Roadside	
NE/2017/06-2.CSC1.S2A2B.5A.2 Installation of Traffic Control Field Equipment		8	0% 01-Oct-22 A		<u>-8</u> 6	6								
DWP6720 MLCS	8	8	100% 01-Oct-22 A		-86	6								
DWP6730 Roadside VMS	8	8	100% 01-Oct-22 A		-86	6				Roadside VMS, Roadside	VMS			
NE/2017/06-2.CSC1.S2A2B.5A.2.1 FVMS - FVMS/141/C	3	1	0% 01-Oct-22 A 100% 01-Oct-22 A		-80	D				nbly of FVMS at neraby Area				
DWP6c Assembly of PVWS at heraby Alea DWP6c Erect the FVMS on Gantry	1	1	100% 01-Oct-22 A		-80	0			Assen	Erect the FVMS on Gantry, Erect	ect the FVMS on Gantry			
► NE/2017/06-2.CSC1.S2A2B.5A.3 Installation of CCTV	43	13	0% 05-Oct-22 A		-91	1								
DWP6740 Assembly and Erect CCTV Highmast for CCTV-TV/144/C	8	5	100% 05-Oct-22 A	09-Nov-22	-91	1				Assembly and Erect CCTV F	lighmast for CCTV-TV/144/C, Assemb	y and Erect CCTV High	nmast for CCTV-TV/144/	/C
DWP6750 CCTV-TV/144/C	8	8	0% 09-Nov-22	17-Nov-22	-91	1				CCTV-TV/144/C				
NE/2017/06-2.CSC1.S2A2B.5A.4 Installation of Control Cabinet	43	0	0%	00 Nov 00	0	0								
NE/2017/06-2.CSC1.S2A2B.5A.5 Local Cables Installation, Testing and Termination DWP6770 Cables Installation, Testing and Termination at TCSS Cabinet	6	4	0% 16-Oct-22 A 100% 16-Oct-22 A		-113	3 0				Cables Installation. T	esting and Termination at TCSS Cabir	et. Cables Installation.	. Testing and Termination	n at TCSS Cabi
DWP6780 Fibre Cable termination	8	8	0% 20-Nov-22		-113	3				Fibre Cable termina	•	-,,		
NE/2017/06-2.CSC1.S2A2B.5A.6 Site Commissioning Test of TCD and Fibre Cable	16	16	0% 24-Nov-22	10-Dec-22	-98	8								
DWP6790 SCT for Power Distribution Equipment	6	6			-110	D				SCT for Power Dis				
DWP6800 SCT for MLCS, VMS and FVMS DWP6800 SCT for MLCS, VMS and FVMS	16	16	0% 24-Nov-22		-98	8				SCT for MLC	^			
DWP6810 SCT for CCTV DWP6820 Fibre Cable Test (End to End)	16	16	0% 24-Nov-22 0% 28-Nov-22	10-Dec-22	-98	3				SCT for CCT	i i			
► NE/2017/06-2.CSC1.S2A2B.5B Stage 5 Works (Within Portion 5B)	81	51	0% 01-Oct-22 A		578	8								
DWP6830 Handover of Holding-down Bolts for Pole Foundation to Civil	1	1	0% 31-Oct-22		628	8				Handover of Holding-down Bolts	for Pole Foundation to Civil			
DWP6860 Rectification of Civil provisions Defects by others	28	0	97.14% 03-Oct-22 A	31-Oct-22 A						Rectification of Civil provisions De	fects by others			
NE/2017/06-2.CSC1.S2A2B.5B.1 Laying Cables (fibre, signal and power)	31	20			-140	0								
DWP6880 Laying Cables on Gantries DWP6890 Fibre, Signal and Power Cables along Roadside	21	11 9	97.14% 10-Oct-22 A 100% 01-Oct-22 A		-140					Laying Cables on Gant	nes, Laying Cables on Gantries es along Roadside, Fibre, Signal and	Power Cables along P	oodsido	
Experiment Signal and Power Cables along Roadside NE/2017/06-2.CSC1.S2A2B.5B.2 Installation of Traffic Control Field Equipment	8	6			-120	9							Jausiue	
DWP6920 MLCS	8	4			-78	8				MLCS, MLCS				
DWP6930 Roadside VMS	8	6	100% 03-Oct-22 A	05-Nov-22	-79	9				Roadside VMS, Roadside VM	S	·		
DWP7060 VSLS	8	5	100% 06-Oct-22 A		-78	В				VSLS, VSLS				
DWP7070 Tunnel Closed Sign	8	6	100% 06-Oct-22 A		-79	9				Tunnel Closed Sign, Tunnel Cl	osed Sign			
NE/2017/06-2.CSC1.S2A2B.5B.2.1 FVMS - FVMS/202/A DWP69 Assembly of FVMS at neraby Area	3	1	0% 01-Oct-22 A 100% 01-Oct-22 A		-75	5				nbly of FVMS at neraby Area				
DWP69 Erect the FVMS on Gantry	1	1	100% 03-Oct-22 A		-75	5				Erect the FVMS on Gantry, Erect	t the FVMS on Gantry			
NE/2017/06-2.CSC1.S2A2B.5B.3 Installation of CCTV	32	13	0% 12-Oct-22 A		-99	9				-				
DWP6935 CCTV Cameras on Gantries	8	5	100% 12-Oct-22 A		-91	1				CCTV Cameras on Gantries, C	I I			
DWP6940 Assembly and Erect CCTV Highmast for CCTV-TV/107/A	8	5	100% 12-Oct-22 A		-99	9					hmast for CCTV-TV/107/A, Assembly a	and Erect CCTV Highm	ast for CCTV-TV/107/A	
DWP6950 CCTV-TV/107/A NE/2017/06-2.CSC1.S2A2B.5B.4 Installation of Detection System Equipment	8	8	0% 04-Nov-22		-99	9				CCTV-TV/107/A				
DWP7080 VD Dectectors	8	<u> </u>	0% 07-Oct-22 A 100% 12-Oct-22 A		-79	8				VD Dectectors, VD Dectectors				
DWP7090 OHVDs	8	6	100% 10-Oct-22 A		-79	9				OHVDs, OHVDs				
DWP7100 Visibility Sensor & Anemometer	8	6	100% 07-Oct-22 A	05-Nov-22	-79	9				Visibility Sensor & Anemomete	er, Visibility Sensor & Anemometer			
NE/2017/06-2.CSC1.S2A2B.5B.8 Installation of Enforcement Equipment	16	9			-97	7								
DWP7120 SEC DEC	16	9	100% 03-Oct-22 A		-97	7				SEC, SEC				
NE/2017/06-2.CSC1.S2A2B.5B.7 Installation of Control Cabinet DWP7110 Control Cabinet for SEC	<u> </u>	11			-99	9				Control Cabinet for SEC, Co	ontrol Cabinet for SEC			
Example Control C	52	38			-123	3								
DWP6970 Cables Installation, Testing and termination at TCSS Cabinet	21	15			-140	0				II	on, Testing and termination at TCSS (ation, Testing and termin	nation at TCSS
DWP6980 Cables Installation, Testing and termination at SEC Cabinet	14	14	0% 11-Nov-22		-99	9					Testing and termination at SEC Cabine	et		
DWP6990 Fibre Cable Termination	14	14	0% 04-Dec-22		-140	0			1	Fibre Ca	ble Termination			
NE/2017/06-2.CSC1.S2A2B.5B.6 Site Commissioning Test of TCD and Fibre Cable DWP7000 SCT for Power Distribution Equipment	<u> </u>	26 14	0% 25-Nov-22 0% 04-Dec-22		-109 -129					SCT for	Power Distribution Equipment			
DWP7010 SCT for Detection Equipment	16	14	0% 04-Dec-22		-129	_				i i i	Detection Equipment			
DWP7020 SCT for MLCS, VSLS, VMS, TCS and FVMS	16	16	0% 04-Dec-22		-109	9					MLCS, VSLS, VMS, TCS and FVMS			
	16	16	0% 25-Nov-22	10-Dec-22	-99	9				SCT for SEC	;			
DWP7040 SCT for SEC					000			1	. i	p i i	i		i	
NE/2017/06-2.CSC1.S2A2B.5C Stage 5 Works (Within Portion 5C)	53	27			602	2					for Dala El 1 11 1 Color			
	53 1	27 1	0% 05-Oct-22 A 0% 31-Oct-22		602	2 8				Handover of Holding-down Bolts	for Pole Foundation to Civil			

017/06 TKO-LTT TCSS	S_3MRP						Classic Sch														07	'-Nov-22
ID	Activity Name	Planned Duration	Remaining Duration			Finish	Total Floa	at Qtr 2, 2	2022		Qtr 3, 202	2		Qtr 4, 2022			Qtr 1, 2023			Qtr 2, 2023		Qtr 3
			Duration					May	/ Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	
📄 DWP7140	Portion 5CAccess Date	0	0	1	00% 05-Oct-22 A	05-Oct-22 A							Portion 5	C Access Date					1			
🔲 DWP7150	Inspection of Civil Provisions and Submit Inspection Report	8	0	1	00% 05-Oct-22 A	05-Oct-22 A							Inspectio	n of Civil Provisio	hs and Submit	Inspection Repo	vrt		4			
DWP7160	Rectification of Civil Provisions Defects by others	16	0	1	00% 05-Oct-22 A	21-Oct-22 A							F	Rectification of Civ	il Provisions De	fects by others						
NE/2017/06-2	-2.CSC1.S2A2B.5C.1 Laying Cables (fibre, signal and power)	16	8		0% 21-Oct-22 A	07-Nov-22	-10	01											1			
	5 Laying Cables (fibre , signal and power)	16	8	62.	78% 21-Oct-22 A	07-Nov-22	-10	01						Laying Ca	ables (fibre , sig	hal and power),	Laying Cables (f	fibre , signal a	nd power)			
🔲 DWP7170	0 Installation of Cable Containment	8	0	1	00% 21-Oct-22 A	28-Oct-22 A		_						Installation of	Cable Containm	hent						
DWP7180	0 Laying Cables on Gantries	8	6	25.	56% 28-Oct-22 A	05-Nov-22	-9	99			·			Laying Ca	bles on Gantrie	s, Laying Cables	on Gantries					
DWP7190	0 Fibre, Signal and Power Cables along Roadside	16	8	62.	78% 21-Oct-22 A	07-Nov-22	-10	01						Fibre, Sig	nal and Power	Cables along Ro	adside, Fibre, S	Signal and Pov	k wer Cables alo	ng Roadside		
	-2.CSC1.S2A2B.5C.2 Installation of Traffic Control Field Equipment	24	14		0% 21-Oct-22 A		_10	17										0		5		
DWP7200		8	6		00% 21-Oct-22 A		-10	07						VMS, VM	s	- - 	, I I I I I I I					
	0 Tunnel Closed Sign	8	8			14-Nov-22	-10	07							l Closed Sign							
	-2.CSC1.S2A2B.5C.3 Installation of CCTV	26	8		0% 13-Oct-22 A		-9	94														
	0 Mounting Bracket for CCTV in Enlosure / Underpass	5	3		00% 21-Oct-22 A		-9	94						Mounting B	racket for CCTV	; / in Enlosure / Ur	derpass, Mount	ting Bracket fo	; or CCTV in Enl	osure / Underpas	;	
DWP7300	0 CCTV Camera	5	5		0% 03-Nov-22	07-Nov-22	-9	94						CCTV Ca	mera			-				
💷 DWP7310	0 Assembly and Erect CCTV Highmast for CCTV-TV/241/C	5	3	1	00% 13-Oct-22 A	02-Nov-22	-9	94						Assembly a	nd Erect CCTV	Highmast for CC	TV-TV/241/C, A	ssembly and I	Erect CCTV Hi	hmast for CCTV-	TV/241/C	
	0 CCTV-TV/241/C	5	5		0% 02-Nov-22	07-Nov-22	-9	94							241/C				1			
NE/2017/06-	-2.CSC1.S2A2B.5C.7 Installation of Control Cabinet	16	11		0% 21-Oct-22 A	11-Nov-22	-10)4			· l	·····				J	LL		d 1 1	· · · · · · · · · · · · · · · · · · ·		
🔲 DWP7290	0 Installation fo Control Cabinet	16	11	62.	78% 21-Oct-22 A	11-Nov-22	-10	04						Installat	tion fo Control C	abinet, Installat	on fo Control Ca	abinet	1			
	-2.CSC1.S2A2B.5C.5 Local Cables Installation, Testing and Termination	10	10		0% 11-Nov-22	21-Nov-22	-10	06						1 1 1		1 1 1						
	0 Cables Installation, Testing and termination at TCSS Cabin et	7	7		0% 14-Nov-22	21-Nov-22	-10	07						📕 🗖 Ca	bles Installation	h, Testing and te	mination at TCS	SS Cabin <i>e</i> t				
	0 Fibre Cable Termination	8	8		0% 11-Nov-22	18-Nov-22	-10	04						Fibr	e Cable Termina	ation						
	-2.CSC1.S2A2B.5C.6 Site Commissioning Test of TCD and Fibre Cable	8	8		0% 18-Nov-22	26-Nov-22	-10															
	0 SCT for Power Distribution Equipment	6	6			26-Nov-22	-10	07						i i	i i	Distribution Equi	pment					
	0 Fibre Cable Test (End to End)	8	8			26-Nov-22	-10	04							Fibre Cable Tes	st (End to End)						
NE/2017/06-2.S	SATC SAT for CBL TCSS	0	0		0%			0														-
NE/2017/06-2.O	OPTC Operability Period Test For the CBL TCSS	0	0		0%			0						1 1 1								
	OLPC DLP for the CBL TCSS	0	0		0%			0			·¦						, ,			· -		
	OOC Documentation Submission for CBL TCSS	7	7		0% 22-Nov-22	28-Nov-22	60	00														
DWP7470	System Description		6			27-Nov-22	60	21						_	System Descrip	tion						
DWP7470	Operation Manual	7	0		0% 22-Nov-22 0% 22-Nov-22	27-NOV-22 28-Nov-22	-2							i.	Operation Ma		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
		7	7		0% 22-Nov-22	02-Dec-22	-2	-											1			
	RC Training for CBL TCSS		1												 	1	, , , , , , , , , , , , , , , , , , ,		 			
DWP7520	TCSS System Overview	7	7		0% 26-Nov-22	02-Dec-22	-12	27							TCSS Syste	m Overview						

TASK filter: 3M.	
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1\$				<u>NE/2017/01</u>	<u> Tseung Kwan O -</u>	Lam Tin Tunnel- Tseung Kwan 4-months Rolling program	nange and Associated Works	
Activity ID	Activity Name		Original Duration	Start	Finish		2022	
			Duration			Oct	Nov	Dec
Tseung Kwan O Ir	terchange and Associated Works 202211-er	IV						
Construction Work								
Outstandarding Wor	ks							
CON-16090	Outstanding Works		72	15-Feb-22 A	15-Nov-22			
	-							

	Page 1 of 1	
	2023	
	Jan	Feb

Contract No. NE/2017/07 Cross Bay Link, Tseng Kwan O - Main Bridge and Associated Works

Activity	bheet 1 of 3	Activity Name	Original D	Juration	Remaining Duration	Start	Finish	Physical % Complete	23	30	November 2022 06 13 20 2	December 2022
(Cross Bay Link,Tseu	ing Kwan O Main Bridge and Associated Works	433	3	145	13-Nov-21 A	26-Apr-23		20			
	Access Date		0		0	07-Nov-22 A	07-Nov-22 A			▼.	Access Date	
	PAD1110	Access to Portion VI (Remaining TCSS power cable duct&road lighting cable ducts) (NCE212-Delay Access to Portion VI)	0		0	07-Nov-22 A		100%		♦ 1	Access to Portion VI (Remaining TCSS powe	er cable duct&road lighting cable duct
	Section 1 of the Wo	rks- All Works within Portion I of the Site (Entrusted Works of TKOI Viaduct)	141	1	13	29-Jun-22 A	23-Nov-22				Section 1 of	the Works- All Works within Portion
	Footway and cycle	track, Road Surfacing, Street Furniture Installation and Remaining Works	38		13	10-Oct-22 A	23-Nov-22				 Footway and 	d cycle track, Road Surfacing, Street
	Bridge ML		26		9	12-Oct-22 A	18-Nov-22				 Bridge ML 	
	S1-RW3006	Street furniture installation	7		7	12-Oct-22 A	16-Nov-22	0%			Street furniture installation	1
	S1-RW3007.1	Friction course pavement works	2		0	03-Nov-22 A	05-Nov-22 A	100%		💻 Fric	ction course pavement works	
	S1-RW3008	Road marking	2		2	17-Nov-22	18-Nov-22	0%			Road marking	
	Bridge S400		30		13	17-Oct-22 A	23-Nov-22				 Bridge S400)
	S1-RW6060	Street furniture installation	16	;	11	17-Oct-22 A	21-Nov-22	0%			Street furniture i	ristallation
	S1-RW6080	Road marking	2		2	22-Nov-22	23-Nov-22	0%			Road marking	ng
	Bridge S200		22		12	12-Oct-22 A	22-Nov-22				Bridge S200	
	S1-RW3070	Street furniture installation	10)	10	12-Oct-22 A	19-Nov-22	0%			Street furniture instal	llation
	S1-RW3075	Road marking	2		2	21-Nov-22	22-Nov-22	0%			Road marking	
	Bridge CT		38	3	13	10-Oct-22 A	23-Nov-22				 Bridge CT 	
	S1-RW3044	Paving block laying for footpath	15	;	0	15-Oct-22 A	24-Oct-22 A	100%	Paving bloc	k laying for foot	tpath	
	S1-RW3048	Dressing works for cycle track	4		4	08-Nov-22 A	12-Nov-22	0%		1	Dressing works for cycle track	
	S1-RW3049	Street furniture installation	13	3	13	14-Oct-22 A	23-Nov-22	0%			Street furnitu	ure installation
	S1-RW3050	Installation of DN300 fire main	18		0	10-Oct-22 A	08-Nov-22 A	100%			Installation of DN300 fire main	
	S1-RW4800	Completion of Section 1A of the Works	0		0		18-Nov-22	0%			 Completion of Section 	1A of the Works
	S1-RW5000	Completion of Section 1B of the Works	0	_	0		23-Nov-22	0%			-	of Section 1B of the Works
	S1-RW5800	Completion of Key Date 4A	0		0		18-Nov-22	0%			 Completion of Key Date 	
	S1-RW6020	Completion of Key Date 4B	0		0		23-Nov-22	0%				of Key Date 4B
	E&M Works	Completion of Key Date 4D	130		6	29-Jun-22 A	15-Nov-22	070			E&M Works	Ť
		Intry Lighting Installation	130		6	29-Jun-22 A	15-Nov-22				✓ Road Lighting & Gantry Lig	ohting Installation
		antry Lighting Installationat Bridge ML	130		6	30-Jun-22 A	15-Nov-22				Road Lighting & Gantry Lig	
	S1-EM1020	Gantry lighting installation works	37		0	30-Jun-22 A	30-Oct-22 A	100%		Gantry lighting	installation works	Simily instantational Dridge into
										Ganu y ngnung	Testing & Commissioning	
	S1-EM1060	Testing & Commissioning	7		7	09-Nov-22	15-Nov-22	0%			ũ ũ	Bridge S400, Bridge CT & Bridge S
		allationat Bridge S400, Bridge CT & Bridge S200	98		6	29-Jun-22 A	15-Nov-22	1000/		Pood lighting in	stallation works	pildge 5400, bildge CT & bildge 5.
	S1-EM1080	Road lighting installation works	40		0	29-Jun-22 A	30-Oct-22 A	100%		Koau lighung in	Testing & Commissioning	
	S1-EM1140	Testing & Commissioning	7		7	09-Nov-22	15-Nov-22	0%				M. Estatist Web
		at Bridge ML - Eretctrial Work	7		7	09-Nov-22	15-Nov-22				Concrete Deck Cell at Bridg Testing & Commissioning	e ML - Ereicinai work
	S1-EM1180	Testing & Commissioning	7		7	09-Nov-22	15-Nov-22	0%			ũ ũ	e S400, Bridge CT & Bridge S200 -
		at Bridge S400, Bridge CT & Bridge S200 - Eretctrial Work	86		6	04-Aug-22 A	15-Nov-22		<u></u> .		~	e S400, Bridge C1 & Bridge S200 -
	S1-EM1200	Installation works	43		0	04-Aug-22 A	30-Oct-22 A	100%		Installation wor		
	S1-EM1220	Testing & Commissioning	7		7	09-Nov-22	15-Nov-22	0%			Testing & Commissioning	
		All Works within Portion II,III,IV and VI	381		93	13-Nov-21 A	24-Feb-23					
	CBL Main Bridge a	nd Marine Viaduct	351		53	13-Nov-21 A	09-Jan-23					
	Concrete Bridge		312	2	19	13-Nov-21 A	30-Nov-22					Concrete Bridge
	Road Works and Su		312		19	13-Nov-21 A	30-Nov-22					Road Works and Surface Furniture
		Surface Furniture at W5 - W2	58		11	15-Aug-22 A	21-Nov-22					d Surface Furniture at W5 - W2
	S2-CB4930	Waterproofing for planter type 1 and type 2	10		0	20-Sep-22 A	24-Oct-22 A		Waterproof	ing for planter ty	ype 1 and type 2	
	S2-CB4931	Laying drainage aggregate in type 1 and type 2	10)	0	24-Oct-22 A	07-Nov-22 A	100%			Laying drainage aggregate in type 1 and type	
	S2-CB4932	Soiling for planter type 1 and type 2	7		7	09-Nov-22	16-Nov-22	0%			Soiling for planter type 1 a	and type 2
	S2-CB4980	Installation of the L3 railing	15	;	0	15-Aug-22 A	07-Nov-22 A	100%			Installation of the L3 railing	
	S2-CB5142	Irrigation system for planter wall	8		8	05-Nov-22 A	21-Nov-22	0%			Irrigation system	-
	S2-CB5147	Installation of cycle race and dressing works of cycle track	21		7	08-Nov-22 A	18-Nov-22	0%			Installation of cycle rad	ce and dressing works of cycle track
	S2-CB5620	Friction course pavement for carriageway	2		0	03-Nov-22 A	05-Nov-22 A	100%		Fric	ction course course pavement for carriageway	-
	Road Works and S	Surface Furniture at E2 - EA	83		19	01-Aug-22 A	30-Nov-22					Road Works and Surface Furniture
	S2-CB5192	Laying drainage aggregate in type 1 and type 2	10	,	0	15-Oct-22 A	25-Oct-22 A	100%	 Laying di 	rainage aggregate	te in type 1 and type 2	
	S2-CB5195	Soiling for planter type 1 and type 2	16	;	8	26-Oct-22 A	17-Nov-22	0%			Soiling for planter type 1	and type 2
	S2-CB5240	Installation of the L3 railing post	30	,	4	01-Aug-22 A	16-Nov-22	98%			Installation of the L3 railin	ig post
	S2-CB5246	Installation of the L3 railing	20	,	6	27-Aug-22 A	18-Nov-22	96%			Installation of the L3 r	ailing
	S2-CB5260	Installation of the isolation panel	30	,	2	29-Aug-22 A	12-Nov-22	100%		-	Installation of the isolation panel	
		1					1				<u></u>	:
•	Remaining	g Level of Effort Critical Remaining Work										08-Oct-

- Actual Work Milestone Remaining Work
 - Summary

Three Month Rolling Programme (November 2022 - February 2023)

08-Oct

18	25	01		J 08	anuary 202	3 15		22		F 29	ebruary 2	023 05	
ucts) (NCE212-Dek on I of the Site (Enti	rusted Wo	orks of TKO	OI Viadu	uct)									
et Furniture Installat	ion and R	emaining V	Works										
e S200													
) - Eretctrial Work													
													_
				CBL M	ain Brid	lge and	Marin	e Viadu	ct				
Ire													
k ıre at E2 - EA													
Date		R	evisio	n			Che	cked		Ар	prov	ed	
xt-22	3MR	P (Oct 2											

Data Date :08-Nov-22 Sheet 2 of 3

Contract No. NE/2017/07 Cross Bay Link, Tseng Kwan O - Main Bridge and Associated Works

		Duration			Complete	23 30	06 13 20 27 04 11
S2-CB5280 Installation of isolation PMMA panel	10	3	15-Oct-22 A	16-Nov-22	0%		Installation of isolation PMMA panel
S2-CB5406 Friction course pavement for carriageway	3	0	04-Nov-22 A	05-Nov-22 A	100%	Fi Fi	riction course pavement for carriageway
S2-CB5410 Road Marking works	4	9	08-Nov-22 A	18-Nov-22	25%		Road Marking works
S2-CB5415 Installation of DN300 fire main	15	0	14-Oct-22 A	08-Nov-22 A	100%		Installation of DN300 fire main
S2-CB5420 Irrigation system for planter type 2	8	8	12-Nov-22	21-Nov-22	0%		Irrigation system for planter type 2
S2-CB5440 Planting works for planter type 1 and 2	8	8	22-Nov-22	30-Nov-22	0%		Planting works for planter type
S2-CB5460 Installation of cycle race and dressing works of cycle track	15	0	25-Oct-22 A	29-Oct-22 A	100%	Installation of cy	cle race and dressing works of cycle track
Fabrication and Delivery Works	107	6	13-Nov-21 A	15-Nov-22			Fabrication and Delivery Works
S2-CB5480 Fabrication and delivery of steel post and transom for L3 parapet	60	6	05-Jan-22 A	15-Nov-22	72%		Fabrication and delivery of steel post and transom for L3 para
S2-CB5500 Fabrication and delivery of steel works for isolation panel	80	2	13-Nov-21 A	10-Nov-22	69%		Fabrication and delivery of steel works for isolation panel
el Bridge	298	53	08-Jan-22 A	09-Jan-23			
oad Works and Surface Furniture	59	17	15-Oct-22 A	28-Nov-22			Road Works and Surface Furniture
Road Works and Surface Furniture	59	17	15-Oct-22 A	28-Nov-22			Road Works and Surface Furniture
S2-RW1063 Installation traffic sign post	14	7	15-Oct-22 A	16-Nov-22	0%		Installation traffic sign post
S2-RW1068.0 Laying drainage aggregate in type 1 and type 2	15	0	16-Oct-22 A	05-Nov-22 A	100%	L	aying drainage aggregate in type 1 and type 2
S2-RW1068.1 Soiling for planter type 1 and type 2	15	10	07-Nov-22 A	19-Nov-22	0%	•	Soiling for planter type 1 and type 2
S2-RW1076 SMA for carriageway at Steel Bridge (WB)	1	0	27-Oct-22 A	27-Oct-22 A	100%	 SMA for carriagewa 	y a t Steel Bridge (WB)
S2-RW1076-5 SMA for carriageway at Steel Bridge (EB)	1	0	27-Oct-22 A	27-Oct-22 A	100%	 SMA for carriagewa 	y a t Steel Bridge (EB)
S2-RW1077 Irrigation system for planter type 2	12	12	15-Nov-22	28-Nov-22	0%		Irrigation system for planter type 2
S2-RW1078-2 Installation of cycle race and dressing works of cycle track	12	12	09-Nov-22	22-Nov-22	0%		Installation of cycle race and dressing works of
elding & Painting Works	234	26	08-Jan-22 A	08-Dec-22			✓ Welding & Pa
Painting of the Ring Weld	214	26	08-Jan-22 A	08-Dec-22			 Painting of the
S2-SB2072 Top coating of the steel deck (east span) (NCE No.181)	75	6	08-Jan-22 A	25-Nov-22	80%		Top coating of the steel deck (east span)
S2-SB2076 Top coating of the steel deck (west span) (NCE No.181)	75	6	08-Jan-22 A	26-Nov-22	80%		Top coating of the steel deck (west sp
S2-SB2080 Top coating of the steel deck (main span) (NCE No.181)	98	18	08-Jan-22 A	08-Dec-22	80%		Top coating o
S2-SB2100 Painting repair of the arch rib (Internal)	45	12	07-Apr-22 A	22-Nov-22	90%		Painting repair of the arch rib (Internal)
S2-SB2105 Painting repair of the arch rib (External) (south rib)	25	25	06-Sep-22 A	07-Dec-22	10%		Painting repair
S2-SB2300 Painting repair of the arch rib (External) (solar hb)	20	14	02-Aug-22 A	29-Nov-22	10%		Painting repair of the arch rib (
			-		10%		Removal of the Temporary Supports at W1 & E1
Removal of the Temporary Supports at W1 & E1	10	10	13-Oct-22 A	19-Nov-22	00/		Removal of the temporary supports at W2
S2-SB2240 Removal of the temporary supports at W2	10	10	13-Oct-22 A	19-Nov-22	0%		
S2-SB2280 Removal of the temporary supports at E2	9	9	25-Oct-22 A	18-Nov-22	0%		Removal of the temporary supports at E2
ssocaited, E&M Works for CBL Main Bridge and Marine Viaduct UBG and AIC	100	53	18-Jul-22 A	09-Jan-23			▼ UBG and AIC
	21	21	05-Nov-22 A	02-Dec-22			AIC
	18	18	05-Nov-22 A	29-Nov-22		•	
S2-EM1340 Testing of the AIC (for south rib)	14	14	09-Nov-22	24-Nov-22	0%		Testing of the AIC (for south rib)
S2-EM1360 Internal test for Arch Inspection Cradle (for north rib)	7	4	05-Nov-22 A	12-Nov-22	40%		Internal test for Arch Inspection Cradle (for north rib)
S2-EM1370 Testing of the AIC (for north rib)	14	14	14-Nov-22	29-Nov-22	0%		Testing of the AIC (for north ri
UBG	3	3	30-Nov-22	02-Dec-22			UBG
Testing of the UBG and SAT	3	3	30-Nov-22	02-Dec-22			Testing of the UBG and
S2-EM1300 SAT (delay delivery material (genset) on site due to COVID-19)	3	3	30-Nov-22	02-Dec-22	0%		SAT (delay delivery mat
Installation of Other Systems	35	26	25-Oct-22 A	08-Dec-22			Installation of
S2-EM1400 Commission and testing of the dehumidification system	30	3	25-Oct-22 A	11-Nov-22	80%		Commission and testing of the dehumidification system
S2-EM1420 Fine tune stressing force of the stay cables	1	1	08-Dec-22	08-Dec-22	0%		Fine tune street
SHMS installation	90	53	18-Jul-22 A	09-Jan-23			
S2-EM1362 Cable laying from stormwater planting room to bridge deck (NCE198 -Delay Access to Portion VI)	40	15	10-Oct-22 A	25-Nov-22	0%		Cable laying from stormwater planting
S2-EM3140 Laying of dynamic systems	15	15	09-Nov-22	25-Nov-22	0%		Laying of dynamic systems
S2-EM3160 Sensor connected with PXI to access system building service	14	13	18-Jul-22 A	10-Dec-22	40%		Sensor co
S2-EM3180 Testing & Commissioning	30	30	11-Dec-22	09-Jan-23	0%		
Works	199	93	30-Jun-22 A	24-Feb-23			
M Works in Portion II,III & IV	199	93	30-Jun-22 A	24-Feb-23			
							Pier Head Lighting Installation at Piers W5-EA
ier Head Lighting Installation at Piers W5-EA	30	7	03-Oct-22 A	16-Nov-22			
S2-EM3040 Pier Head Lighting Installation at Piers W2-W5	30	7	03-Oct-22 A	16-Nov-22	0%		Pier Head Lighting Installation at Piers W2-W5
S2-EM3060 Pier Head Lighting Installation at Piers E2-EA	30	7	03-Oct-22 A	16-Nov-22	0%		Pier Head Lighting Installation at Piers E2-EA
S2-EM3080 Pier Head Lighting Installation at Piers W1-E1	30	7	03-Oct-22 A	16-Nov-22	0%		Pier Head Lighting Installation at Piers W1-E1
ixed Red Lighting Installation at Piers W1-E1	87	35	03-Oct-22 A	19-Dec-22			

Remaining Work

Summary

022	January 2023		February 2023
18 25	01 08 15	22	29 05
and 2			
et			
	 Steel Bridge 		
ycle track			
ting Works			
ling Weld			
ICE No.181)			
(NCE No.181)			
ne steel deck (main span) (NCE No.181)		
he arch rib (External) (s	south rib)		
ernal) (north rib)			
	Assocaited. F&M	Works for CBL Main B	ridge and Marine Viad
	. 20000000, 120191		8 ina nie vidu
[
l (genset) on site due to	COVID-19)		
ther Systems			
ng force of the stay cable	es		
	 SHMS installation 		
m to bridge deck (NCE)	198 -Delay Access to Portion VI)		
ected with PXI to access	s system building service		
	Testing & Commi	ssioning	
			<u> </u>
	T H C ON THE P		
Fixed Red Lightin	ng Installation at Piers W1-E1		
Date	Revision	Checked	Approved
	MRP (Oct 22 - Jan 23)		
	, /		

Contract No. NE/2017/07 Cross Bay Link, Tseng Kwan O - Main Bridge and Associated Works

Incluity ID		Activity Name	Original Duration	Remaining Duration	Start	Finish	Physical % Complete 23	November 2022 December 20 30 06 13 20 27 04 11
S	2-EM3100	Installation of Pier Head Lighting	30	7	03-Oct-22 A	16-Nov-22	0%	30 06 13 20 27 04 11 Installation of Pier Head Lighting
s	2-EM3120	Testing & Commissioning	30	30	20-Nov-22	19-Dec-22	0%	
SC	ADA System		145	93	05-Oct-22 A	24-Feb-23		
s	5-PR3300	Equipment cabling & wiring completion for termination	20	0	08-Oct-22 A	29-Oct-22 A	100%	Equipment cabling & wiring completion for termination
s	5-PR3320	Rack & Equipment on site installation	14	0	08-Oct-22 A	31-Oct-22 A	100%	Rack & Equipment on site installation
s	5-PR3340	Equipment & RIOU panel termination	18	0	08-Oct-22 A	31-Oct-22 A	100%	Equipment & RIOU panel termination
s	5-PR3360	Optical fibre cable laying (NCE198 -Delay Access to Portion VI)	60	5	05-Oct-22 A	14-Nov-22	0%	Optical fibre cable laying (NCE198 -Delay Access to Portion VI)
s	5-PR3380	Cable & wiring Termination	37	37	15-Nov-22	29-Dec-22	0%	
s	5-PR3400	System testing and commissioning	21	21	30-Dec-22	19-Jan-23	0%	
s	5-PR3420	SAT & System testing	36	36	20-Jan-23	24-Feb-23	0%	
Nav	vigation Lightin	g at Piers W1-E1	30	7	03-Oct-22 A	16-Nov-22		▼ Navigation Lighting at Piers W1-E1
s	2-EM1630	Navigation Lighting Installation at Piers W1-E1	30	7	03-Oct-22 A	16-Nov-22	0%	Navigation Lighting Installation at Piers W1-E1
Avi	gation Lighting	at Piers W1-E1	30	10	07-Nov-22 A	19-Nov-22		✓ Avigation Lighting at Piers W1-E1
s	2-EM1700	Avigation Lighting Installation at Piers W1-E1	30	10	07-Nov-22 A	19-Nov-22	0%	Avigation Lighting Iristallation at Piers W1-E1
Fur	nctional Lighting	g at Piers W1-E1	30	15	09-Oct-22 A	25-Nov-22		▼ Functional Lighting at Piers W1-E1
s	2-EM1760	Equipment Installation of Functional Light	30	0	09-Oct-22 A	31-Oct-22 A	100%	Equipment Installation of Functional Light
s	2-EM1920	Testing and Commissioning including SAT & Scene Program	30	17	07-Nov-22 A	25-Nov-22	0%	Testing and Commissioning including SAT &
Lig	htning System	and Main Earthing System	107	35	05-Oct-22 A	19-Dec-22		
s	2-EM1960	T&C for lightning system	30	30	20-Nov-22	19-Dec-22	0%	
s	2-EM1985	Installation of earthing tape at Portion VI (NCE198 -Delay Access to Portion VI)	49	0	05-Oct-22 A	31-Oct-22 A	100%	Installation of earthing tape at Portion VI (NCE198 -Delay Access to Portion VI)
s	2-EM1990	T&C for main earthing system	30	22	01-Nov-22 A	30-Nov-22	0%	T&C for main earthing system
Dec	ck Cell - Eretctri	ial Work	30	30	09-Nov-22	08-Dec-22		Deck Cell - Eretet
s	iteel Deck Cell a	t Piers E1-E2 East Side Span Deck	30	30	09-Nov-22	08-Dec-22		▼ Steel Deck Cell at
	S1-EM1480	Testing & Commissioning	30	30	09-Nov-22	08-Dec-22	0%	Testing & Commi
Det	humidification §	System at Piers W1-E1	30	0	10-Sep-22 A	30-Oct-22 A		Dehumidification System at Piers W1-E1
s	1-EM1500	Installation of Dehumidification System at Piers W1-E1	30	0	10-Sep-22 A	30-Oct-22 A	100%	Installation of Dehumidification System at Piers W1-E1
Gai	ntry Lighting In	stallation at Piers W2 & E3	47	8	30-Jun-22 A	17-Nov-22		Gantry Lighting Installation at Piers W2 & E3
s	1-EM1520	Gantry Lighting Installation at Piers W2 & E3	47	8	30-Jun-22 A	17-Nov-22	40%	Gantry Lighting Installation at Piers W2 & E3
17N	I Information S	ign Lighting Installation at Piers W1-E1	30	10	07-Nov-22 A	19-Nov-22		 17M Information Sign Lighting Installation at Piers W1-
s	2-EM3020	17M Information Sign Lighting Installation at Piers W1-E1	30	10	07-Nov-22 A	19-Nov-22	0%	17M Information Sign Lighting Installation at Piers W1-
Section	1 3 of the Wo	rks-Comprises All of the Landscape Works	19	19	09-Nov-22	30-Nov-22		Section 3 of the Works-Comprises
S3-LW2	2000	Landscape works for CBL bridge	18	18	10-Nov-22	30-Nov-22	0%	Landscape works for CBL bridge
S3-LW2	2020	Landscape works for TKO-LTT bridge	18	18	09-Nov-22	29-Nov-22	0%	Eandscape works for TKO-LTT brid
S3-LW2	2040	Completion of Section 3 of the Works	0	0		30-Nov-22	0%	 Completion of Section 3 of the Wo
Section	5 of the Wo	rks-All Works within Portion V (CBL E&M Plantroom)	76	76	28-Jan-23	26-Apr-23		
Remai	ining Work		76	76	28-Jan-23	26-Apr-23		
S5-PF	R2300	T&C for all systems after connection from plantroom to the bridge (incl. 15 days TRA)	76	76	28-Jan-23	26-Apr-23	0%	

Remaining Level of Effort
 Critical Remaining Work

Actual Work

Remaining Work

Milestone

Summary

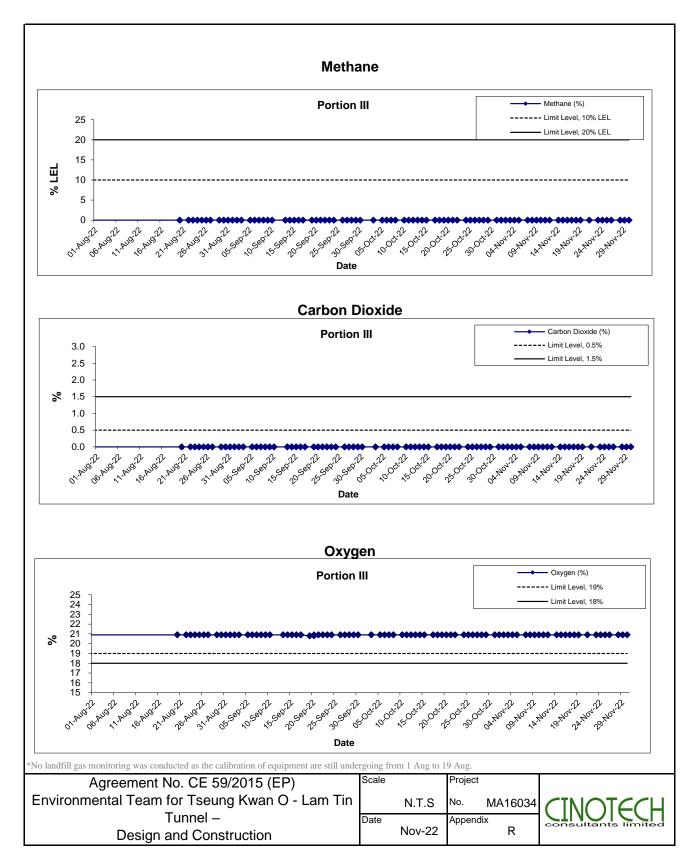
2022	25	01	08	January 2023 15		22	29 F	ebruary 2023 05
Testing & Con						L		
	Ca	ble & wiring	g Termination		System t	esting and c	ommissio	ning
					System			
& Scene Program								
 Lightning System 			ng System					
T&C for lightn	ing syste	m						
ctrial Work at Piers E1-E2 East S	ide Spar	n Deck						
nissioning	1							
I-E1 I-E1								
es All of the Landsca	pe Work	ŝ						
ridge Vorks								
Date			evision		Che	ecked	Ар	proved
t-22	3MR	P (Oct 22	2 - Jan 23	3)				

APPENDIX R RECORD OF LANDFILL GAS MONITORING BY CONTRACTOR

APPENDIX R - RECORD OF LANDFILL GAS MONITORING BY THE CONTRACTOR

Location	Date of Measurement	Sampling time	Weather Condition	Temperature (°C)	Methane (%)	Carbon dioxide (%)	Oxygen (%)
Portion III	1-Nov-22	8:10	Cloudy	20	0	0	20.9
Portion III	1-Nov-22	13:15	Cloudy	24	0	0	20.9
Portion III	2-Nov-22	8:07	Cloudy	19	0	0	20.9
Portion III	2-Nov-22		T	phoon no.8 Nalgae was he	pisted at 13:40		
Portion III	3-Nov-22	8:16	Cloudy	20	0	0	20.9
Portion III	3-Nov-22	13:46	Cloudy	23	0	0	20.9
Portion III	4-Nov-22	8:09	Cloudy	22	0	0	20.9
Portion III	4-Nov-22	13:09	Cloudy	23	0	0	20.9
Portion III	5-Nov-22	8:08	Cloudy	21	0	0	20.9
Portion III	5-Nov-22	13:17	Cloudy	22	0	0	20.9
Portion III	7-Nov-22	8:07	Cloudy	19	0	0	20.9
Portion III	7-Nov-22	13:14	Cloudy	23	0	0	20.9
Portion III	8-Nov-22	8:15	Sunny	21	0	0	20.9
Portion III	8-Nov-22	13:37	Sunny	24	0	0	20.9
Portion III	9-Nov-22	8:09	Sunny	22	0	0	20.9
Portion III	9-Nov-22	13:17	Sunny	26	0	0	20.9
Portion III	10-Nov-22	8:10	Sunny	23	0	0	20.9
Portion III	10-Nov-22	13:26	Sunny	28	0	0	20.9
Portion III	11-Nov-22	8:06	Sunny	24	0	0	20.9
Portion III	11-Nov-22	13:18	Sunny	27	0	0	20.9
Portion III	12-Nov-22	8:11	Sunny	23	0	0	20.9
Portion III	12-Nov-22	13:27	Sunny	25	0	0	20.9
Portion III	14-Nov-22	8:23	Sunny	23	0	0	20.9
Portion III	14-Nov-22	13:14	Sunny	25	0	0	20.9
Portion III	15-Nov-22	8:36	Sunny	24	0	0	20.9
Portion III	15-Nov-22	13:44	Sunny	26	0	0	20.9
Portion III	16-Nov-22	8:07	Cloudy	24	0	0	20.9
Portion III	16-Nov-22	13:33	Cloudy	26	0	0	20.9
Portion III	17-Nov-22	8:21	Cloudy	24	0	0	20.9
Portion III	17-Nov-22	13:44	Cloudy	27	0	0	20.9
Portion III	18-Nov-22	8:16	Sunny	24	0	0	20.9
Portion III	18-Nov-22	13:22	Sunny	25	0	0	20.9
Portion III	19-Nov-22	8:11	Sunny	24	0	0	20.9
Portion III	19-Nov-22	13:31	Sunny	26	0	0	20.9
Portion III	21-Nov-22	8:07	Cloudy	23	0	0	20.9
Portion III	21-Nov-22	13:15	Cloudy	25	0	0	20.9
Portion III	23-Nov-22	8:20	Cloudy	23	0	0	20.9
Portion III	23-Nov-22	13:26	Cloudy	24	0	0	20.9
Portion III	24-Nov-22	8:17	Rainy	21	0	0	20.9
Portion III	24-Nov-22	13:33	Rainy	22	0	0	20.9
Portion III	25-Nov-22	8:10	Rainy	22	0	0	20.9
Portion III	25-Nov-22	13:40	Rainy	23	0	0	20.9
Portion III	26-Nov-22	8:19	Cloudy	22	0	0	20.9
Portion III	26-Nov-22	13:30	Cloudy	23	0	0	20.9
Portion III	28-Nov-22	8:14	Sunny	24	0	0	20.9
Portion III	28-Nov-22	13:11	Sunny	27	0	0	20.9
Portion III	29-Nov-22	8:18	Sunny	24	0	0	20.9
Portion III	29-Nov-22	13:34	Sunny	27	0	0	20.9
Portion III	30-Nov-22	8:11	Sunny	19	0	0	20.9
	50-1101-22	0.11	ounny	17	v	v	20.9

APPENDIX R - RECORD OF LANDFILL GAS MONITORING BY THE CONTRACTOR



APPENDIX T CULTURAL HERITAGE MONITORING RESULTS

	Tilting					Settlement (mr	n)	Vibration (mm/s)		
Date	THT-TM-	THT-TM-	THT-TM-	THT-TM-04A	THT-BSP-	THT-BSP-2	THT-BSP-3	M	easurement Dire	ection
	01A	02A	03A	111-1M-04A	1A	111-DSF-2	III-DSF-5	Tran	Vertical	Longitudinal
1-Nov-22	-1 : 17307	-1 : 3208	1 : 12857	Obstructed by work from stakeholder	OBS	Stop Monitoring	Stop Monitoring	0.434	0.355	0.591
2-Nov-22	-1 : 32141	-1 : 2418	-1 : 12162	Obstructed by work from stakeholder	OBS	Stop Monitoring	Stop Monitoring	0.276	0.615	0.473
3-Nov-22	-1 : 89996	-1 : 3028	-1 : 20454	Obstructed by work from stakeholder	OBS	Stop Monitoring	Stop Monitoring	0.244	0.363	0.229
4-Nov-22	-1 : 40907	-1 : 2945	-1 : 23684	Obstructed by work from stakeholder	OBS	Stop Monitoring	Stop Monitoring	0.300	0.386	0.268
5-Nov-22	-1 : 56247	-1 : 3903	1 : 26470	Obstructed by work from stakeholder	OBS	Stop Monitoring	Stop Monitoring	0.134	0.181	0.236
7-Nov-22	1 : 28124	-1 : 3640	1 : 19565	Obstructed by work from stakeholder	+0	Stop Monitoring	Stop Monitoring	0.189	0.244	0.252
8-Nov-22	1 : 16071	-1 : 5225	-1 : 23684	Obstructed by work from stakeholder	+0	Stop Monitoring	Stop Monitoring	0.197	0.323	0.252
9-Nov-22	1 : 17999	-1 : 4984	-1 : 16071	Obstructed by work from stakeholder	+0	Stop Monitoring	Stop Monitoring	0.189	0.331	0.284
10-Nov-22	1 : 20454	-1 : 4378	-1 : 13235	Obstructed by work from stakeholder	+0	Stop Monitoring	Stop Monitoring	0.339	0.741	0.410

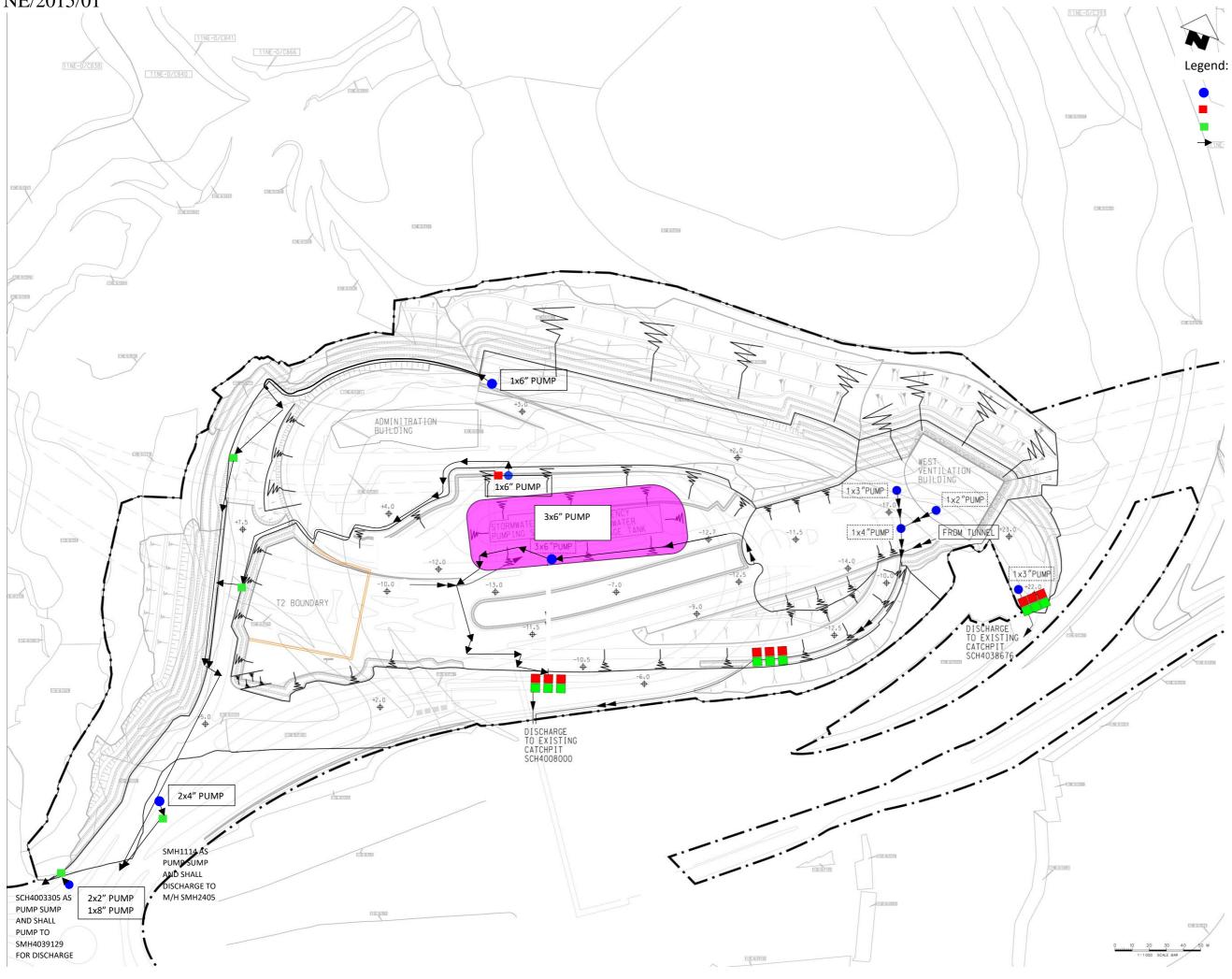
		Til	ting			Settlement (mr	n)	Vibration (mm/s)		
Date	THT-TM-	THT-TM-	THT-TM-	THT-TM-04A	THT-BSP-	THT-BSP-2	THT-BSP-3	М	easurement Dire	ection
	01A	02A	03A	111-1M-04A	1A	IIII-DSF-2	III-DSF-5	Tran	Vertical	Longitudinal
11-Nov-22	1 : 44998	-1 : 4050	-1 : 11250	Obstructed by work from stakeholder	+0	Stop Monitoring	Stop Monitoring	0.229	0.355	0.386
12-Nov-22	1 : 112495	-1 : 3410	-1 : 8182	Obstructed by work from stakeholder	OBS	Stop Monitoring	Stop Monitoring	0.186	0.197	0.213
14-Nov-22	1 : 34614	-1 : 4563	-1 : 13235	Obstructed by work from stakeholder	+0	Stop Monitoring	Stop Monitoring	0.189	0.229	0.189
15-Nov-22	1 : 16071	-1 : 5491	-1 : 14516	Obstructed by work from stakeholder	+0	Stop Monitoring	Stop Monitoring	0.150	0.213	0.186
16-Nov-22	1 : 12162	-1 : 6113	-1 : 20454	Obstructed by work from stakeholder	+0	Stop Monitoring	Stop Monitoring	0.181	0.339	0.418
17-Nov-22	1 : 44998	-1 : 4563	-1 : 13235	Obstructed by work from stakeholder	+0	Stop Monitoring	Stop Monitoring	0.213	0.457	0.276
18-Nov-22	1 : 17999	-1 : 3767	-1 : 28125	Obstructed by work from stakeholder	-2	Stop Monitoring	Stop Monitoring	0.276	0.599	0.410
19-Nov-22	1 : 112495	-1 : 4378	-1 : 11250	Obstructed by work from stakeholder	OBS	Stop Monitoring	Stop Monitoring	0.173	0.268	0.189
21-Nov-22	1 : 44998	-1 : 5785	-1 : 20454	Obstructed by work from stakeholder	+0	Stop Monitoring	Stop Monitoring	0.186	0.315	0.173

		Til	ting			Settlement (mr	n)	Vibration (mm/s)		
Date	THT-TM-	THT-TM-	THT-TM-	THT-TM-04A	THT-BSP-	THT-BSP-2	THT-BSP-3	М	easurement Dire	ection
	01A	02A	03A		1A	111-DSF-2	III-DSF-5	Tran	Vertical	Longitudinal
23-Nov-22	1:28124	-1 : 5491	-1 : 10465	Obstructed by work from stakeholder	OBS	Stop Monitoring	Stop Monitoring	0.158	0.260	0.181
24-Nov-22	1 : 16071	-1 : 3903	-1 : 18000	Obstructed by work from stakeholder	OBS	Stop Monitoring	Stop Monitoring	0.418	0.292	0.591
25-Nov-22	1 : 44998	-1 : 3410	-1 : 20454	Obstructed by work from stakeholder	+0	Stop Monitoring	Stop Monitoring	0.134	0.205	0.173
26-Nov-22	1 : 112495	-1 : 4563	-1 : 13235	Obstructed by work from stakeholder	OBS	Stop Monitoring	Stop Monitoring	0.134	0.158	0.150
28-Nov-22	1 : 17999	-1 : 3903	-1 : 11250	Obstructed by work from stakeholder	+0	Stop Monitoring	Stop Monitoring	0.370	0.686	0.670
29-Nov-22	1 : 112495	-1 : 5785	-1 : 18000	Obstructed by work from stakeholder	+2	Stop Monitoring	Stop Monitoring	0.213	0.268	0.339
30-Nov-22	1 : 44998	-1 : 4050	-1 : 28125	Obstructed by work from stakeholder	+0	Stop Monitoring	Stop Monitoring	0.229	0.339	0.323
Alert Level	1:2000			6		4.5				
Alarm Level	1:1500				8		4.8			
Action Level		1:1	000			10			5	

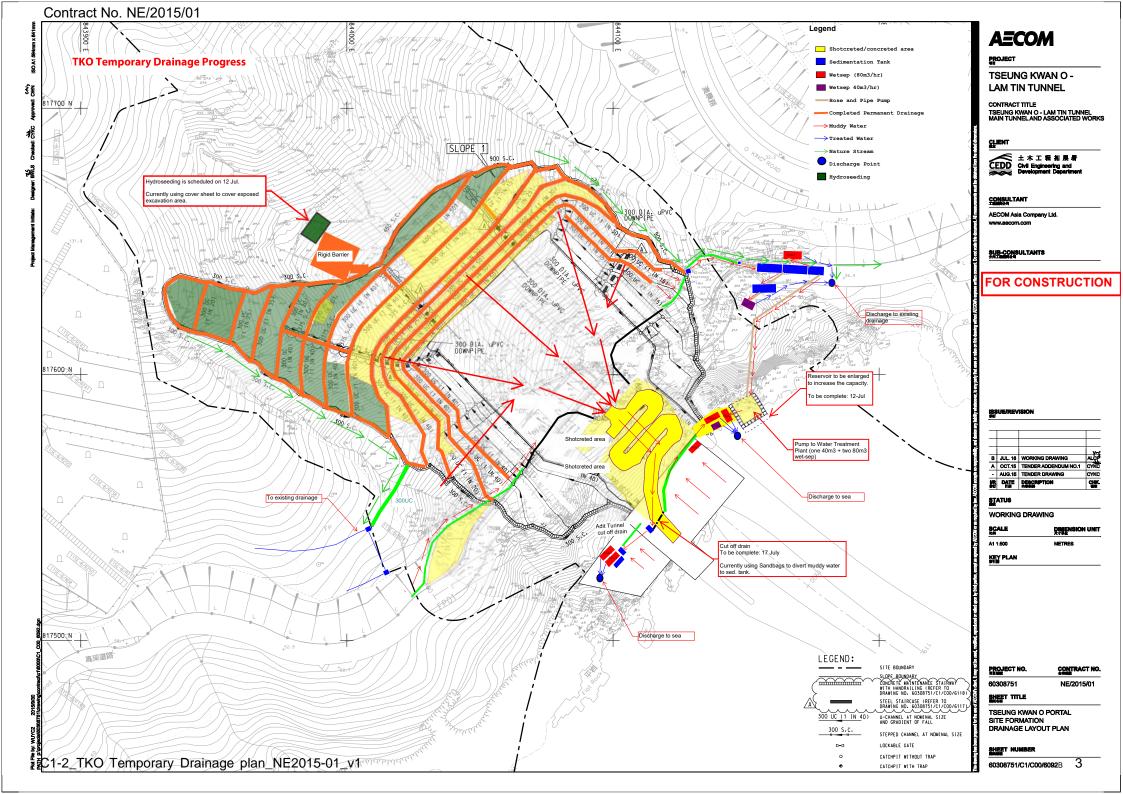
Note: Bold means Alert Level exceedance Bold Italic means Alarm Level exceedance Bold Italic with underline means Action Level exceedance

APPENDIX V SURFACE RUNOFF MANAGEMENT PLAN

Contract No. NE/2015/01



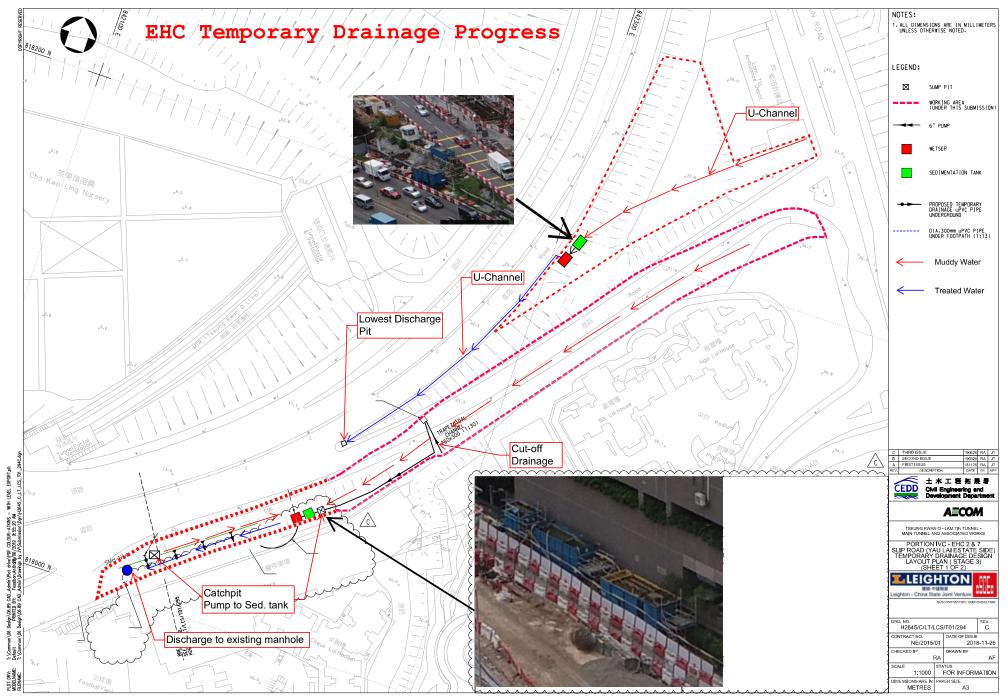
Pump Sedimentation Tank Wastewater Treatment Plant Flow Path



Contract No. NE/2015/01



Contract No. NE/2015/01





Our Ref.:JV/TKO-P2/NE201502/19.00.00.00/017621/L Your Ref.: TLT/(NE/2015/02)/C30/650/(0205)

29 March 2021



AECOM Asia Company Limited 8/F, Tower 2, Grand Central Plaza 138 Shatin Rural Committee Road Shatin, Hong Kong By Hand

Attn.: Mr C. W. Lam, Dominic (CRE)

Dear Sir,

Contract No.: NE/2015/02 Tseung Kwan O – Lam Tin Tunnel – Road P2 and Associated Works <u>Submission of Layout Plan for Site Surface Run-off Control</u>

We would like to submit herewith a Layout Plan for Site Surface Run-off Control so as to illustrate our site preparedness for the coming typhoon and wet season as per PS Clause 25.08.

Yours faithfully, For and on behalf of CRBC-Build King Joint Venture

YU Man Kit, And

Site Agent

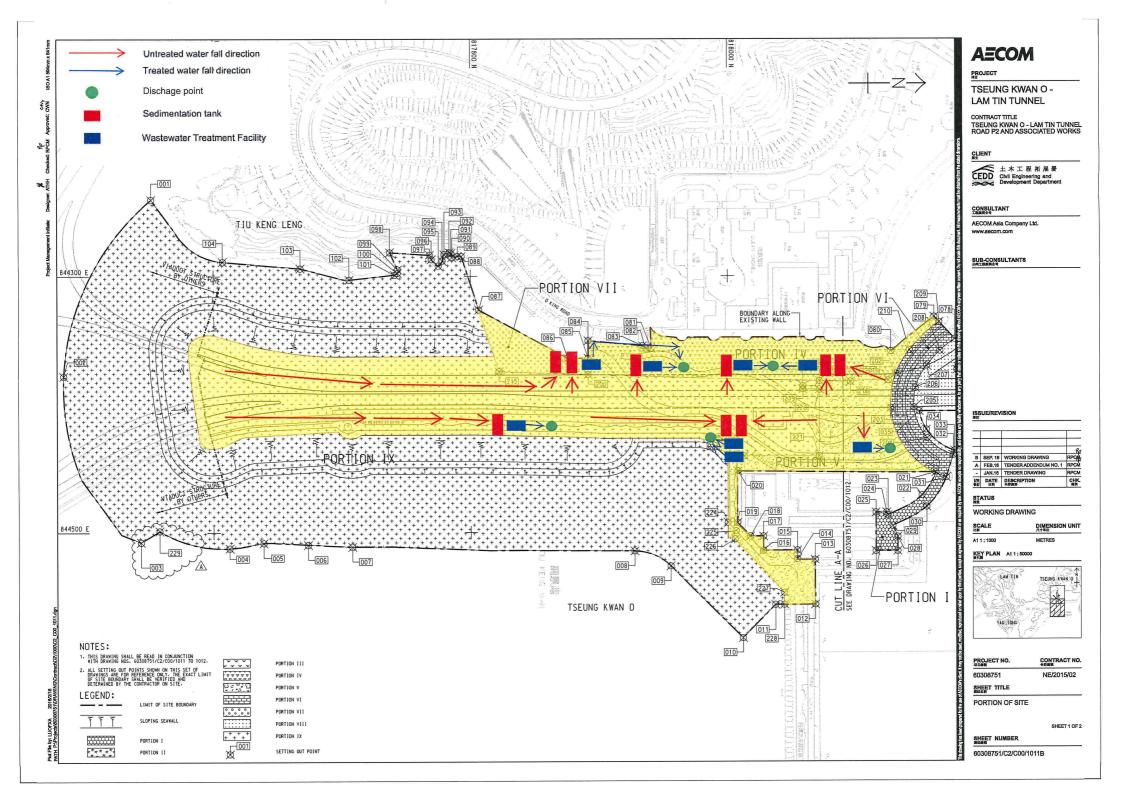
Encl.

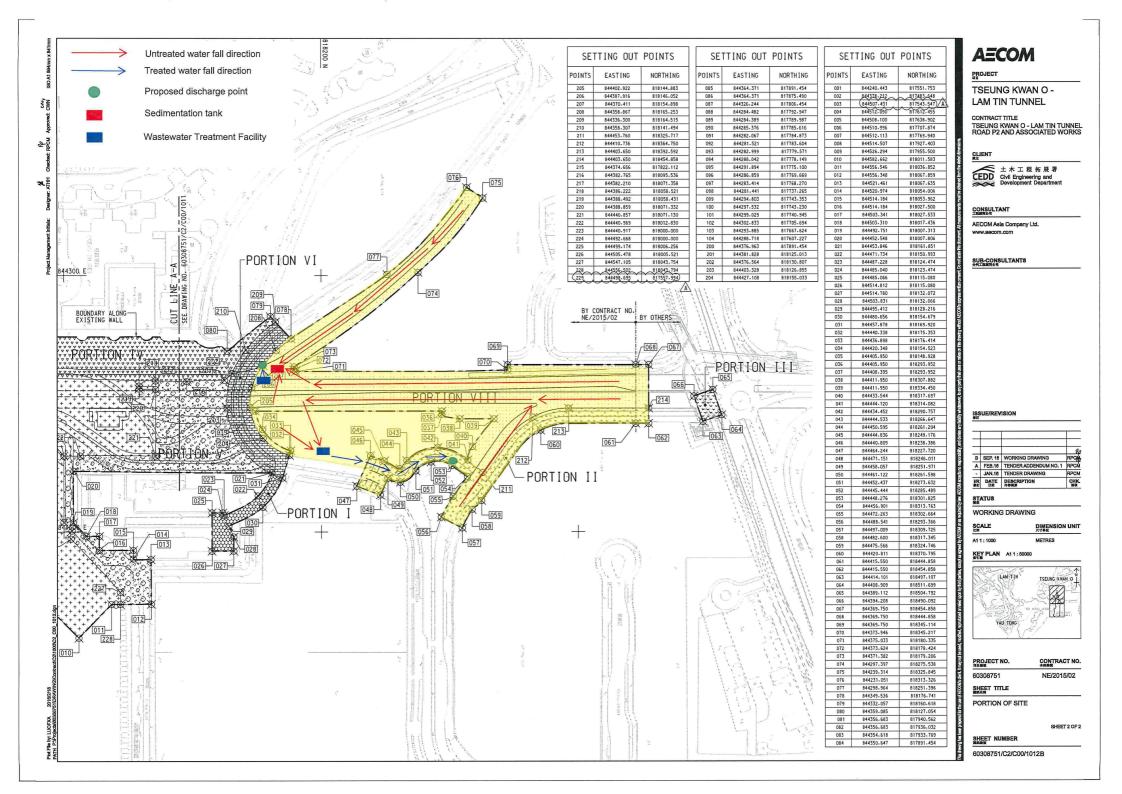
c.c.:

The Project Manager for the contract, (CE/E1, CEDD) – Attn.: Mr. Sunny SP LO The Project Manager's Delegate, AECOM (HO) - Attn: Mr. Ivan Tsang Fax: 2739 0076 Fax: 3922 9797

AY/GN/WW/RP/KC

Page 1 of 1





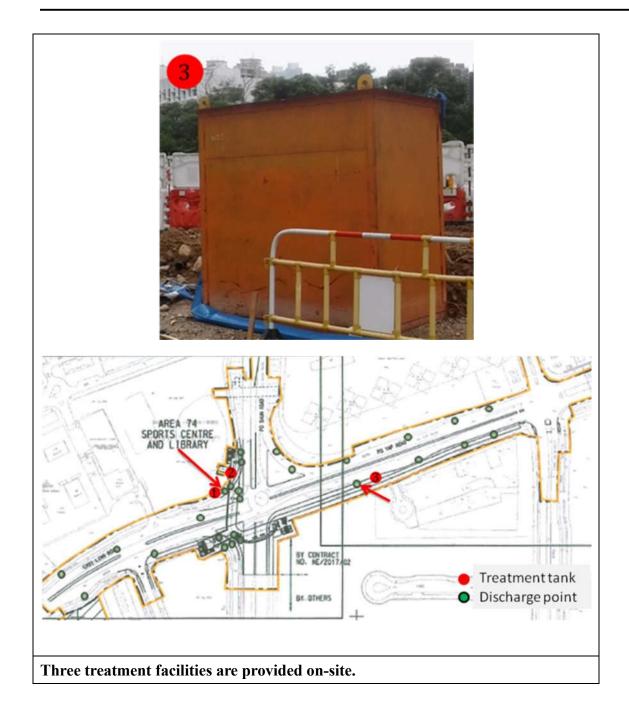


Contract No.: <u>NE/2017/02</u> Contract Title: <u>Tseung Kwan O – Lam Tin Tunnel – Road P2/D4 and</u> <u>Associated Works</u>

Flooding Mitigation Plan









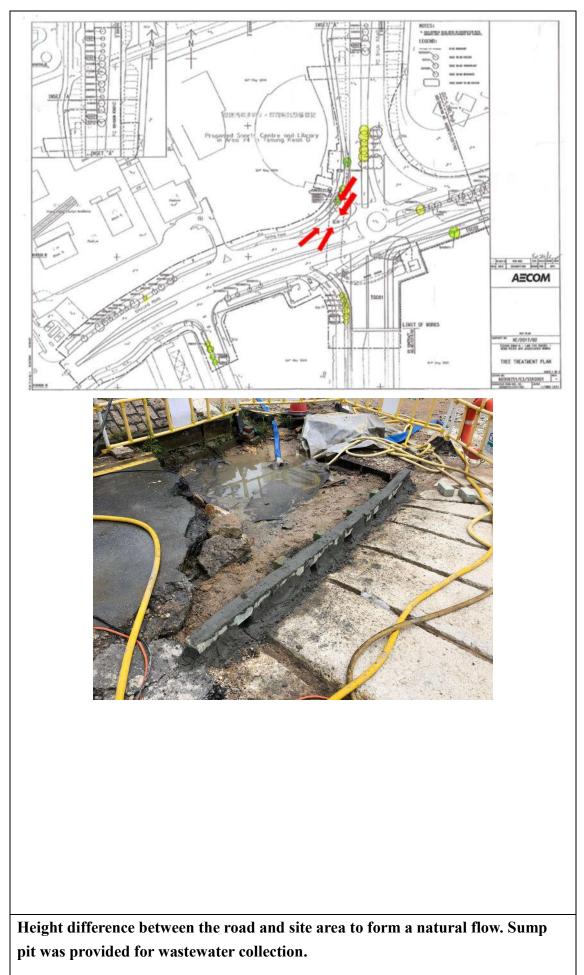




Surface runoff collection



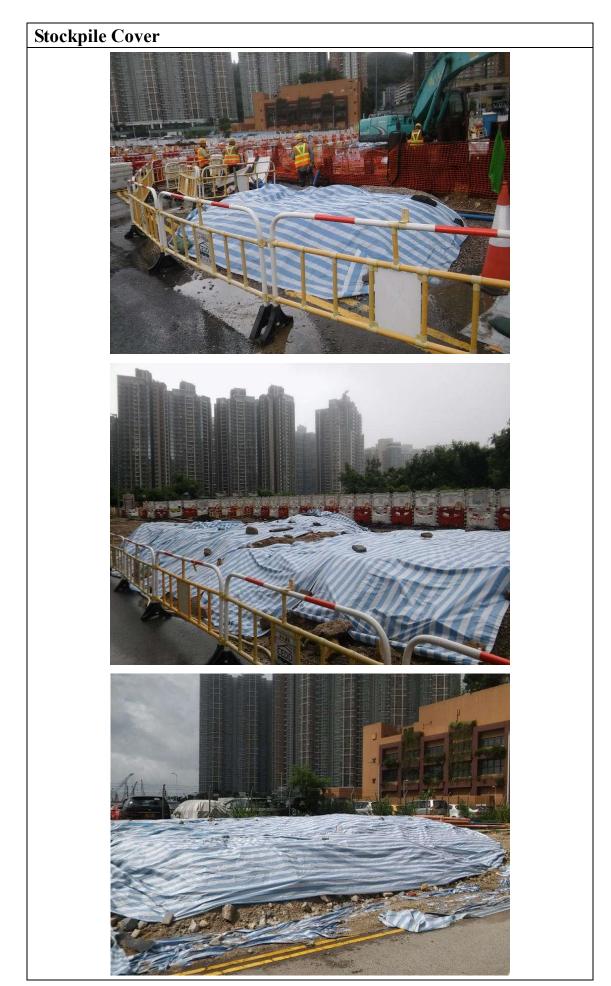










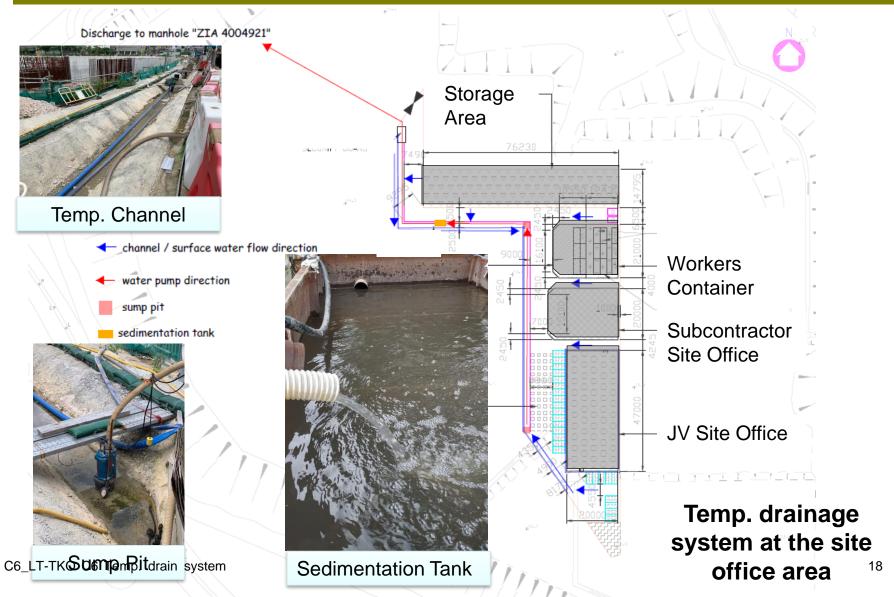






Stockpile Should be proper cover with tarpaulin.

NE/2017/01 Site Surface Runoff Measures^{後和-上隧-中冶聨營} CW-STEC-CMGC JV



APPENDIX W MONITORING RESULTS FOR POST-RECLAMATION MARINE WATER QUALITY MONITORING

Appendix W Monitoring Results for Post Reclamation Marine Water Quality Monitoring

Monitoring			
Parameter	Depth	Action Level	Limit Level
Dissolved Oxygen (DO)	Surface Depth	Nil _[3]	Nil _[3]
in mg/L	Depth Average	4.8 mg/L[4]	$4 \text{ mg/L}_{[5]}$
(See Notes 1 and 2)	Bottom	$2.4 \text{ mg/L}_{[4]}$	2 mg/L_{5}

Part I – Review of Action and Limit Levels for Post Reclamation Marine Water Quality Monitoring

Notes:

1. "depth-averaged" is calculated by taking the arithmetic means of reading all sampling depths.

2. For DO, non-compliance with the water quality limits occurs when the monitoring result is lower than the limits.

3. No action and limit level is proposed for surface depth under the approved proposal for post-reclamation marine water quality monitoring.

3. As an alert for adverse water quality impact, the Action Level is set as 120% of the Current WQOs for marine Waters of Hong Kong

4. Current Water Quality Objectives (WQOs) for marine waters of Hong Kong.

The water depth at W2 on 21 November 2022 was **3.7m**, so the monitoring at the mid-depth will be omitted.

Part II – Review of Monitoring Results for Post Reclamation Marine Water Quality Monitoring at Surface Depth

Date	Depth (m)	DO (mg/L)	DO saturation (%)	Salinity (ppt)	рН	Temperature (°C)
21 Nov 22	1.01	8.19	117.4	32.93	8.32	24.0
21 Nov 22	1.02	8.32	121.1	33.13	8.32	24.0

Part III – Review of Monitoring Results for Post Reclamation Marine Water Quality Monitoring at Depth Average

Date	Depth (m)	DO (mg/L)	DO saturation (%)	Salinity (ppt)	рН	Temperature (°C)
21 Nov 22	Omitted	Omitted	Omitted	Omitted	Omitted	Omitted
21 Nov 22	Omitted	Omitted	Omitted	Omitted	Omitted	Omitted

Part IV – Review of Monitoring Results for Post Reclamation Marine Water Quality Monitoring at Bottom Depth

Date	Depth (m)	DO (mg/L)	DO saturation (%)	Salinity (ppt)	рН	Temperature (°C)
21 Nov 22	2.65	8.22	117.9	33.15	8.33	24.0
21 Nov 22	2.74	8.45	121.3	33.15	8.32	24.0

Part V – Short Summary

No exceedance of action or limit level of DO in mg/L was recorded in the reporting month.

APPENDIX X TENTATIVE IMPLEMENTATION SCHEDULE FOR MITIGATION MEASURES IN OPERATION PHASE

