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66th CONSOLIDATED MONTHLY **EM&A REPORT**

April 2022

Client	:	Civil Engineering and Development Department, HKSAR
EP No.	:	EP-337/2009 – New Distributor Roads Serving the Planned Kai Tak Development Area
Contract No.	:	KLN/2016/05 – Independent Environmental Checker for Contract No. KL/2015/02 Kai Tak Development – Stage 5A Infrastructure at Former North Apron Area
Report No.	:	0087/16/ED/1157

Prepared by	:	Cyrus Lai

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Certified by :

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Independent Environmental Checker Fugro Technical Services Limited



TABLE OF CONTENTS

EXE	CUTIVE SU	MMARY	I
1.	INTRODU	CTION	1
2.	ENVIRON	MENTAL MONITORING AND AUDIT	6
3.	SITE INSP	ECTION	8
4.	ENVIRON	MENTAL COMPLAINT AND NON-COMPLIANCE	9
5.		NTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES	10
6.		(EY ISSUES	11
7.	CONCLUS	SIONS	14
LIST	OF APPENI	DICES	
	endix A	Monthly EM&A Report For Contract No. KL/2014/01 Kai Tak Development - Stage 2 Infrastructure works for Developments at Southern F the Former Runway Monthly EM&A Report For Contract No. KL/2015/02	Part of
мрре	endix B	Monthly Elvia Report For Contract No. RL/2015/02	

- Kai Tak Development Stage 5A Infrastructure at Former North Apron Area
- Appendix C Monthly EM&A Report For Contract No. ED/2018/01 Kai Tak Development – Stage 4 infrastructure at the former runway and south apron
- Appendix D Monthly EM&A Report For Contract No. ED/2018/05 Kai Tak Development – Stage 5B infrastructure works at the former north apron area

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EXECUTIVE SUMMARY

- i. This is the 66th Consolidated Monthly EM&A Report which summaries the EM&A works undertaken by respective contract under EP-337/2009 within the period between 1 April and 30 April 2022.
- ii. The construction activities undertaken in the reporting month are summarized as follow:

Contract No. KL/2014/01:

- Architectural features works at landscaped deck and ground floor open space
- Defect work of pedestrian streets
- E&M works
- Laying of paving blocks for footpath
- Planting works along footpath and at deck level, and
- TTA implementation, minor works at Shing Fung Road and Wang Chiu Road / Kai Cheung Road

Contract No. KL/2015/02:

- Lift installation work of LT1 at SKLR Playground
- Excavating and laying cable ducts for E&M works at SKLR Playground
- Carry out water proofing works and backfilling works at TTA Stage 3 & 4 of PERE
- Install bulkhead lighting works at Subway

Contract No. ED/2018/01:

- North Approach Ramp Construction of wall, roof slab, utilities trough
- Bridge D3 Construction of Bridge Deck and abutments
- North Depressed Road Construction of wall & top slab
- Underpass Construction of walls and roof slab
- South Approach Ramp Construction of Permanent Structure
- District Cooling System seawater intake box culvert Installation of precast units and backfilling works, reinstatement of the seawall and backfilling works
- Lift 3 –Construction of linking platform
- Lift 4 –Construction of Wall and Roof Slab / Installation of Steelworks and Glass Panel
- South Depressed Road –Installation of ELS system / construction of permanent works
- Rising Main and Water Pipe Laying of sewage
- Landscaped Deck Construction of pile caps and installation of columns
- Transformer Room Construction of permanent structure
- Shing Kai Road Modification works
- Lift 1 &2 -Installation of ELS system
- CLP substation Construction of base slab, wall & intermediate slab
- Noise Barrier Remaining works, Bus lay-by construction
- Seawater Intake Box Culvert of Saltwater Pumping Station –Installation of sheetpiles and ELS system

Contract No. ED/2018/05:

- ELS and excavation at Pier 9 for Elevated Walkway LW-02
- Pile cap construction for PC9 and PC10 for Elevated Walkway LW-02
- Erection of temporary decking across existing Kai Tak River
- Underground utility diversion works at Sa Po Road
- ELS and excavation at launching shaft for subway SB-01
- Construction works for Pedestrian Street No. 1, No. 2, No. 3 & No. 4
- Construction of Crowd Dispersal Route

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- Construction works for Road L16
- Construction of DCS
- Post-pilling tests for H-piles at Subway KS10
- ELS and excavation for Subway KS10 Lift and Staircase
- Demolition works to existing subway KS10 staircase and ramp
- Renovation works for existing subways KS9 and KS32

Breaches of the Action and Limit Levels

- iii. No Action / Limit Level exceedance was recorded for 24-hr TSP monitoring in the reporting month.
- iv. No Action / Limit Level exceedance was recorded for 1-hr TSP monitoring in the reporting month.
- v. No Action / Limit Level exceedance was recorded for noise monitoring in the reporting month.

Complaint, Notification of Summons and Successful Prosecution

vi. No complaint, notification of summons or prosecution was received for Contract No. KL/2014/01, Contract No. KL/2015/02, Contract No. ED/2018/01 and Contract No. ED/2018/05 in this reporting month.

Reporting Changes

vii. There was no reporting change in the reporting month.



Future Key Issues

Hong Kong.

viii. The potential environmental impacts for the coming month and the control measures are shown in Table I:

Table I Summary	v of Kev Issue	s for the Cominc	n Month and Cont	rol Measures
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Major Impact Prediction	Control Measures			
Contract No. KL/2	014/01:			
Air quality impact (dust)	 Frequent watering of haul road and unpaved/exposed areas; Frequent watering or covering stockpiles with tarpaulin or similar means; and Watering of any earth moving activities. 			
Water quality impact (surface run-off)	 Diversion of the collected effluent to de-silting facilities for treatment prior to discharge to public storm water drains; Provision of adequate de-silting facilities for treating surface run-off and other collected effluents prior to discharge; Provision of perimeter protection such as sealing of hoarding footings to avoid run-off from entering the existing storm water drainage system via public road; and Provision of measures to prevent discharge into the stream. 			
Noise Impact	 Scheduling of noisy construction activities if necessary to avoid persistent noisy operation; Controlling the number of plants use on site; Regular maintenance of machines; and Use of acoustic barriers if necessary. 			
Waste/ Chemical Management	 Maintenance involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges. Chemical wastes should be hold by suitable containers with clear label and stored at a safe location. 			
Contract No. KL/2	015/02:			
Air quality impact (dust)	 Frequent watering of haul road and unpaved/exposed areas; Frequent watering or covering stockpiles with tarpaulin or similar means; and Watering of any earth moving activities. 			
Water quality impact (surface run-off)	 Diversion of the collected effluent to de-silting facilities for treatment prior to discharge to public storm water drains; Provision of adequate de-silting facilities for treating surface run-off and other collected effluents prior to discharge; Provision of perimeter protection such as sealing of hoarding footings to avoid run-off from entering the existing storm water drainage system via public road; and Provision of measures to prevent discharge into the stream. 			
Noise Impact	 Scheduling of noisy construction activities if necessary to avoid persistent noisy operation; Controlling the number of plants use on site; Regular maintenance of machines; and Use of acoustic barriers if necessary. 			
Contract No. ED/2018/01:				
Air Quality, Construction Noise, Water Quality, Chemical and	 Sufficient watering of the works site with the active dust emitting activities, Limitation of the speed for vehicles on unpaved site roads, Properly cover the stockpiles, Good maintenance to the plant and equipment, Use of quieter plant and Quality Powered Mechanical Equipment (QPME), 			

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Major Impact Prediction	Control Measures
Waste Management, Landscape and Visual	 Provide movable noise barriers, Appropriate desilting/ sedimentation devices provided on site for treatment before discharge, Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall, Onsite waste sorting and implementation of trip ticket system, Good management and control on construction waste reduction, Erection of decorative screen hoarding, Strictly following the Environmental Permits and Licenses, and Provide sufficient mitigation measures as recommended in Approved EIA Reports.
Contract No. ED/2	018/05:
Air Quality, Construction Noise, Water Quality, Chemical and Waste Management, Landscape and Visual	 Sufficient watering of the works site with the active dust emitting activities, Limitation of the speed for vehicles on unpaved site roads, Properly cover the stockpiles, Good maintenance to the plant and equipment, Use of quieter plant and Quality Powered Mechanical Equipment (QPME), Provide movable noise barriers, Appropriate desilting/ sedimentation devices provided on site for treatment before discharge, Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall, Onsite waste sorting and implementation of trip ticket system, Good management and control on construction waste reduction, Erection of decorative screen hoarding, Strictly following the Environmental Permits and Licenses, and Provide sufficient mitigation measures as recommended in Approved EIA Reports.



1. INTRODUCTION

1.1 Background

- 1.1.1 The Kai Tak Development is located in the south-eastern part of Kowloon Peninsula of the HKSAR, comprising the apron and runway areas of the former Kai Tak Airport and existing waterfront areas at To Kwa Wan, Ma Tau Kok, Kowloon Bay, Kwun Tong and Cha Kwo Ling.
- 1.1.2 A study of environmental impact assessment (EIA) was undertaken to consider the key issues of air quality, noise, water quality, waste, land contamination, cultural heritage and landscape and visual impact, and identify possible mitigation measures associated with the works. EIA Report (Register No. AEIAR-130/2009) was approved by the Environmental Protection Department (EPD) on 4 March 2009.
- 1.1.3 The EP-337/2009 was issued on 23 April 2009 for the new distributor roads serving the planned Kai Tak Development to the following scale and slope:
 - a) Road D1 a dual 2-lane carriageway of approximately 1.3 km long.
 - b) Road D2 a dual 3-lane carriageway of approximately 1.1 km long.
 - c) Road D3 a dual 2-lane carriageway of approximately 2.3 km long.
 - d) Road D4 a dual 2-lane carriageway of approximately 0.9 km long.
- 1.1.4 The Civil Engineering and Development Department HKSAR has appointed Fugro Technical Services Limited (FTS) to undertake the role of Independent Environmental Checker (IEC) for the Contract No. KL/2015/02.
- 1.1.5 This is the 66th Consolidated Monthly EM&A Report which summaries the EM&A works undertaken by respective contract under EP-337/2009 within the period between 1 April and 30 April 2022.

Party	Position	Name	Telephone	Fax	
Contract No. KL/2014/0	1:				
Project Proponent	Senior Engineer	Mr. Keith Chu	3579 2450	3579 4516	
(CEDD)	Engineer	Ms. Adonia Yung	3579 2124	3579 4516	
Engineer's Representative (AECOM)	CRE	Mr. Clive Cheng	3746 1801	2798 0783	
IEC (KSMC)	IEC	Dr. Douglas Wong	2618 2166	2120 7752	
	ET Leader	Mr. K.S Lee	2151 2091		
ET (Cinotech)	Audit Team Leader	Ms. Betty Choi	2151 2072	3107 1388	
Main Contractor (CCJV)	EO	Mr. Jack Lai	2960 1398	2960 1399	
Contract No. KL/2015/0	2:				
Project Proponent (CEDD)	Senior Engineer	Mr. Ricky Chan	2116 3753	2116 0714	
Engineer's Representative (AECOM)	SRE	Mr. Vincent Lee	2798 0771	2210 6110	
IEC (FTS)	IEC	Mr. Colin Yung	3565 4114	2450 8032	
	ET Leader	Mr. K.S Lee	2151 2091		
ET (Cinotech)	Audit Team Leader	Ms. Betty Choy	2151 2072	3107 1388	
Main Contractor	Site Agent	Mr. W. M. Wong	6386 3535	2398 8301	

1.2 Summary of relevant Contract Information of Key Personnel

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Party	Position	Name	Telephone	Fax
(PWHJV)				
Contract No. ED/2018/0	1:			
Project Proponent	Senior Engineer	Mr. Alex Wong	3579 2452	2739 0076
(CEDD)	Engineer	Ms. Chan Ka Yan	3579 2458	2739 0076
Engineer's Representative (AECOM)	CRE	Mr. Clive Cheng	3911 4201	3911 4288
IEC (Ramboll)	IEC	Mr. Y H Hui	3465 2850	3465 2899
ET (Ka Shing)	ET Leader	Mr. Chan Pang	6082 2973	2120 7752
Main Contractor (Penta-Ocean)	EO	Mr. Lulu Mar	6845 0626	3465 8898
Contract No. ED/2018/0	5:			
Droje et Dren en ent	Senior Engineer	Mr. George Ng	3842 7107	2739 0076
Project Proponent	Engineer	Mr. Albert Tse	3842 7137	2739 0076
(CEDD)	Engineer	Mr. Perry Lo	3842 7143	2739 0076
Engineer's Representative (AECOM)	SRE	Ms. Mavis Law	2798 0771	2798 0783
IEC (Acuity)	IEC	Mr. Kevin Li	2698 6833	2698 9383
ET (Ka Shing)	ET Leader	Ir. Chan Pang	2618 2166	2120 7752
Main Contractor (BK- STEC)	EO	Mr. Raymond Lam	9713 6817	3850 8508

1.3 Summary of Construction Programme and Activities

- 1.3.1 The construction programme of each Contract is summarized in the appendices of the corresponding Monthly EM&A report.
- 1.3.2 The major construction activities undertaken in the reporting month are summarized as follow:

Contract No. KL/2014/01:

- Architectural features works at landscaped deck and ground floor open space
- Defect work of pedestrian streets
- E&M works
- Laying of paving blocks for footpath
- Planting works along footpath and at deck level, and
- TTA implementation, minor works at Shing Fung Road and Wang Chiu Road / Kai Cheung Road

Contract No. KL/2015/02:

- Lift installation work of LT1 at SKLR Playground
- Excavating and laying cable ducts for E&M works at SKLR Playground
- Carry out water proofing works and backfilling works at TTA Stage 3 & 4 of PERE
- Install bulkhead lighting works at Subway

Contract No. ED/2018/01:

- North Approach Ramp Construction of wall, roof slab, utilities trough
- Bridge D3 Construction of Bridge Deck and abutments
- North Depressed Road Construction of wall & top slab
- Underpass Construction of walls and roof slab
- South Approach Ramp Construction of Permanent Structure

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- District Cooling System seawater intake box culvert Installation of precast units and backfilling works, reinstatement of the seawall and backfilling works
- Lift 3 –Construction of linking platform
- Lift 4 Construction of Wall and Roof Slab / Installation of Steelworks and Glass Panel
- South Depressed Road –Installation of ELS system / construction of permanent works
- Rising Main and Water Pipe Laying of sewage
- Landscaped Deck Construction of pile caps and installation of columns
- Transformer Room Construction of permanent structure
- Shing Kai Road Modification works
- Lift 1 &2 -Installation of ELS system
- CLP substation Construction of base slab, wall & intermediate slab
- Noise Barrier Remaining works, Bus lay-by construction
- Seawater Intake Box Culvert of Saltwater Pumping Station –Installation of sheetpiles and ELS system

Contract No. ED/2018/05:

- ELS and excavation at Pier 9 for Elevated Walkway LW-02
- Pile cap construction for PC9 and PC10 for Elevated Walkway LW-02
- Erection of temporary decking across existing Kai Tak River
- Underground utility diversion works at Sa Po Road
- ELS and excavation at launching shaft for subway SB-01
- Construction works for Pedestrian Street No. 1, No. 2, No. 3 & No. 4
- Construction of Crowd Dispersal Route
- Construction works for Road L16
- Construction of DCS
- Post-pilling tests for H-piles at Subway KS10
- ELS and excavation for Subway KS10 Lift and Staircase
- · Demolition works to existing subway KS10 staircase and ramp
- Renovation works for existing subways KS9 and KS32

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1.4 Summary of Inter-relationship with the environmental protection/ mitigation measures with the construction programme

The summary of inter-relationship with environmental protection/mitigation measures are 1.4.1 presented as follow:

Major Environmental Impact	Control Measures			
Contract No. KL/2014/01:				
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; Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall; Provide mitigation measure to temporary use of chemicals; Provide sufficient mitigation measures as recommended in Approved EIA Report/Lease requirement. 			
Contract No. KL/2015/02:				
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; Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall; Provide sufficient mitigation measures as recommended in Approved EIA Report/Lease requirement. 			
Contract No. ED/2018/01:				
The mitigation measures for environmental impact including Air Quality, Construction Noise, Water Quality, Chemical and Waste Management, Landscape and Visual shall be implemented:	 Sufficient watering of the works site with the active dust emitting activities, Limitation of the speed for vehicles on unpaved site roads, Properly cover the stockpiles, Good maintenance to the plant and equipment, Use of quieter plant and Quality Powered Mechanical Equipment (QPME), Provide movable noise barriers, Appropriate desilting/ sedimentation devices provided on site for treatment before discharge, Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall, Onsite waste sorting and implementation of trip ticket system, Good management and control on construction waste reduction, Erection of decorative screen hoarding, Strictly following the Environmental Permits and Licenses, 			

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Major Environmental Impact	Control Measures
	 and Provide sufficient mitigation measures as recommended in Approved EIA Reports.
Contract No. ED/2018/05:	
The mitigation measures for environmental impact including Air Quality, Construction Noise, Water Quality, Chemical and Waste Management, Landscape and Visual shall be implemented:	 Sufficient watering of the works site with the active dust emitting activities, Limitation of the speed for vehicles on unpaved site roads, Properly cover the stockpiles, Good maintenance to the plant and equipment, Use of quieter plant and Quality Powered Mechanical Equipment (QPME), Provide movable noise barriers, Appropriate desilting/ sedimentation devices provided on site for treatment before discharge, Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall, Onsite waste sorting and implementation of trip ticket system, Good management and control on construction waste reduction, Erection of decorative screen hoarding, Strictly following the Environmental Permits and Licenses, and Provide sufficient mitigation measures as recommended in Approved EIA Reports.

1.5 Summary Status of Environmental Licences, Notifications and Permits

1.5.1 Detailed relevant environmental licenses, permits and/or notifications on environmental protection for this EP are presented in the appendices of the corresponding Monthly EM&A report.

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2. ENVIRONMENTAL MONITORING AND AUDIT

2.1 Results and Observations

Air Quality

Tuen Mun, N.T.,

Hong Kong.

- 2.1.1 The schedule of air quality monitoring in reporting month is provided in the appendices of the corresponding Monthly EM&A report.
- 2.1.2 The weather conditions during the monitoring are provided in the appendices of the corresponding Monthly EM&A report.
- 2.1.3 The monitoring data of 24-hr TSP and 1 hour TSP are summarized in **Table 2.1**. Detailed monitoring data are presented in the appendices of the corresponding Monthly EM&A report.

Table 2.1Summary of 24-hr and 1 hour TSP Monitoring Results

Parameter	Monitoring Station	Average (µg/m³)	Range (µg/ m³)	Action Level (µg/ m ³)	Limit Level (µg/ m ³)
Contract No.	KL/2014/01:				
N.A (No air qu	uality monitoring is re	quired for the Proje	ect)		
Contract No.	KL/2015/02:				
1-hr TSP	AM2	57.9	21.0 - 130.2	346	500
24-hr TSP	AM2(A)	63.9	33.2 – 107.8	157	260
Contract No.	ED/2018/01:				
	AM3	69	27 – 102	182	
24-hr TSP	*AM4(A)	/	/	187	260
	AM7	70	33 – 110	181	
	AM3	60	32 – 93	297	
1-hr TSP	*AM4(A)	70	43 – 96	326	500
	AM7	56	27 – 86	315	
Contract No. ED/2018/05:					
	AM2(A)	73	42 – 127	175	200
24-hr TSP	AM3	69	27 – 102	172	260
1-hr TSP	AM2(A)	60	38 – 100	302	500
1-111 TSP	AM3	60	32 – 93	301	500

*Remark:

Due to the outbreak of COVID 19, The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), one of the impact monitoring stations, did not open to public starting from 23 February 2022 and ET could not conduct impact monitoring on roof top of AM4(A). Because of the access limitation, 1 hour TSP monitoring was conducted on the ground floor outside AM4(A) with facing to the Project Site while no 24 hour TSP monitoring was conducted at AM4(A) in the reporting month.

- 2.1.4 No Action / Limit Level exceedance was recorded for 24-hr TSP monitoring in the reporting month.
- 2.1.5 No Action / Limit Level exceedance was recorded for 1-hr TSP monitoring in the reporting month.
- 2.1.6 The monitoring data of 24-hr TSP was compared with the EIA predictions are presented in the appendices of the corresponding Monthly EM&A report.



2.1.7 The Event and Action Plan for air quality is given in in the appendices of the corresponding Monthly EM&A report.

<u>Noise</u>

- 2.1.8 The schedule of noise monitoring in reporting month is provided in in the appendices of the corresponding Monthly EM&A report.
- 2.1.9 The noise monitoring data are summarized in **Table 2.2**. Detailed monitoring data are presented in the appendices of the corresponding Monthly EM&A report.

 Table 2.2
 Summary of Noise Impact Monitoring Results

Monitoring Stations			Limit Level dB (A)
Contract No. KL/2014/01:			
(No Construction noise m	N.A onitoring is required for the Project.)		NA
Contract No. KL/2015/02:			
M3(A)	71.1 – 73.6 #	When one documented complaint is received.	75
M4	72.2 – 76.5 #		70*
M5(C)	72.9 – 77.6 #		75
Contract No. ED/2018/01:			
M11	70.7 – 73.6		75
M12	64.0 - 68.0		75
Contract No. ED/2018/05:			
M4(A)	69.3 – 71.9	1	75
M5(Å)	72.2 – 73.8	1	75

(*) Noise Limit Level is 65 dB(A) during school examination periods.

([#]) Measured noise level ≤ background / baseline noise level, detailed data refer to the corresponding Monthly EM&A report.

- 2.1.10 The noise monitoring data was compared with the EIA predictions are presented in the appendices of the corresponding Monthly EM&A report.
- 2.1.11 No Action / Limit Level exceedance was recorded for noise monitoring in the reporting month.
- 2.1.12 The Event and Action Plan for noise is given in in the appendices of the corresponding Monthly EM&A report.

Landscape and Visual

2.1.13 Site audits were carried out on a weekly basis to monitor and audit the landscape and visual mitigation measures within the site boundaries of this Project. Detailed of observations are presented in the appendices of the corresponding Monthly EM&A report.



3. SITE INSPECTION

3.1 Site Inspection

- 3.1.1 Site inspections were carried out weekly to monitor the implementation of proper environmental pollution control and mitigation measures for the Project.
- 3.1.2 Detailed of observation, recommendation of site inspections and summary of the mitigation measures implementation schedule is provided in the appendices of the corresponding Monthly EM&A Report.

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4. ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

4.1 Complaints, Notification of Summons and Prosecution

4.1.1 The summary of complaints, notification of summons and prosecution in the reporting month are shown as **Table 4.1**.

Table 4.1 Summary of Complaints, Notification of Summons and Prosecution

Event	No. of Event This Month	Remark
Contract No. KL/2014/01:		
Complaint received	0	NA
Notifications of any summons & prosecutions received	0	NA
Contract No. KL/2015/02:		
Complaint received	0	NA
Notifications of any summons & prosecutions received	0	NA
Contract No. ED/2018/01:		
Complaint received	0	NA
Notifications of any summons & prosecutions received	0	NA
Contract No. ED/2018/05:		
Complaint received	0	NA
Notifications of any summons & prosecutions received	0	NA

4.1.2 Detailed records are presented in the appendices of the corresponding Monthly EM&A report.

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5. IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

5.1 Implementation Status

5.1.1 The Contractor has implemented environmental mitigation measures and requirements as stated in the EIA Reports, the EP and the EM&A Manuals. The implementation status of the mitigation measures during the reporting month are presented in the appendices of the corresponding Monthly EM&A report.

5.2 Waste Management

5.2.1 The amount of wastes generated of this Project during the reporting month is shown in the appendices of the corresponding Monthly EM&A report.

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6. FUTURE KEY ISSUES

6.1 Construction Programme for the Next Two Months

6.1.1 The major site activities undertaken for the coming two months are summarized in follow:

Contract No. KL/2014/01:

- Architectural features works at landscaped deck and ground floor open space;
- Defect work of pedestrian streets;
- E&M works;
- · Laying of paving blocks for footpath;
- Noise barrier modification
- Planting works along footpath and at deck level, and;
- TTA implementation, minor works at Shing Fung Road and Wang Chiu Road / Kai Cheung Road.

Contract No. KL/2015/02:

- Lift installation work of LT1 at SKLR Playground
- Electrical wiring along subway
- E&M works for subway
- Install steel staircase cover of ST1 at SKLR Playground
- Carry out finishing works at SW6, subway and staircase ST1
- V.E. panel installation along subway SW6
- E&M work for bulkhead lighting inside subway SW6
- Pump house platform installation works with removal of ELS
- Backfilling works with removal of ELS at TTA Stage 3 & 4 of PERE
- · Modify supports of the traffic desks at PERE
- Adding an additional concrete surround to the existing 1500mm pipe

Contract No. ED/2018/01:

- North Approach Ramp Construction of utilities trough
- Bridge D3 Construction of Bridge Deck and abutments
- North Depressed Road Construction of wall & top slab
- Underpass Construction of walls and roof slab
- South Approach Ramp Construction of Permanent Structure
- District Cooling System seawater intake box culvert Installation of precast units and backfilling works, reinstatement of the seawall and backfilling works
- Lift 4 Construction of linking platform
- · South Depressed Road Installation of ELS system / construction of permanent works
- · Rising Main and Water Pipe Laying of sewage
- Landscaped Deck Construction of pile caps and installation of columns
- Transformer Room Construction of Permanent Structure
- Shing Kai Road Modification works
- Lift 1 &2 Installation of ELS system
- CLP substation Construction of Permanent Structure
- Noise barrier Remaining works, Bus lay-by construction
- Seawater Intake Box Culvert of Saltwater Pumping Station –Installation of sheetpiles and ELS system

Contract No. ED/2018/05:

- Pile cap and column construction for Pier 9 and Pier 10 at Elevated Walkway LW-02
- Erection of temporary deck across existing Kai Tak River
- Construction of Crowd Dispersal Route
- Construction of Road L16

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- Construction of DCS
- Construction of Pedestrian Street No. 1, No. 2, No.3 & No.4
- · Underground utility diversion works at Sa Po Road
- ELS and excavation for launching shaft for subway SB-01
- Renovation works for existing subway KS9 and KS32
- Twin rising main connection works
- 6.1.2 The potential environmental impacts arising from the above construction activities and the control measures are shown in **Table 6.1**:

Table 6.1 Summary of Key Issues for the Coming Month and Control Measures

Major Impact Prediction	Control Measures			
Contract No. KL/20	<u>014/01:</u>			
Air quality impact (dust)	 Frequent watering of haul road and unpaved/exposed areas; Frequent watering or covering stockpiles with tarpaulin or similar means; and Watering of any earth moving activities. 			
Water quality impact (surface run-off)	 Diversion of the collected effluent to de-silting facilities for treatment prior to discharge to public storm water drains; Provision of adequate de-silting facilities for treating surface run-off and other collected effluents prior to discharge; Provision of perimeter protection such as sealing of hoarding footings to avoid run-off from entering the existing storm water drainage system via public road; and Provision of measures to prevent discharge into the stream. 			
Noise Impact	 Scheduling of noisy construction activities if necessary to avoid persistent noisy operation; Controlling the number of plants use on site; Regular maintenance of machines; and Use of acoustic barriers if necessary. 			
Waste/ Chemical Management	 Maintenance involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges. Chemical wastes should be hold by suitable containers with clear label and stored at a safe location. 			
Contract No. KL/20	<u>)15/02:</u>			
Air quality impact (dust)	 Frequent watering of haul road and unpaved/exposed areas; Frequent watering or covering stockpiles with tarpaulin or similar means; and Watering of any earth moving activities. 			
Water quality impact (surface run-off)	 Diversion of the collected effluent to de-silting facilities for treatment prior to discharge to public storm water drains; Provision of adequate de-silting facilities for treating surface run-off and other collected effluents prior to discharge; Provision of perimeter protection such as sealing of hoarding footings to avoid run-off from entering the existing storm water drainage system via public road; and Provision of measures to prevent discharge into the stream. 			
Noise Impact	 Scheduling of noisy construction activities if necessary to avoid persistent noisy operation; Controlling the number of plants use on site; Regular maintenance of machines; and Use of acoustic barriers if necessary. 			
Contract No. ED/2				
Air Quality,	Sufficient watering of the works site with the active dust emitting activities,			

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Major Impact Prediction	Control Measures	
Construction Noise, Water Quality, Chemical and Waste Management, Landscape and Visual	 Limitation of the speed for vehicles on unpaved site roads, Properly cover the stockpiles, Good maintenance to the plant and equipment, Use of quieter plant and Quality Powered Mechanical Equipment (QPME), Provide movable noise barriers, Appropriate desilting/ sedimentation devices provided on site for treatment before discharge, Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall, Onsite waste sorting and implementation of trip ticket system, Good management and control on construction waste reduction, Erection of decorative screen hoarding, Strictly following the Environmental Permits and Licenses, and Provide sufficient mitigation measures as recommended in Approved EIA Reports. 	
Contract No. ED/20		
Air Quality, Construction Noise, Water Quality, Chemical and Waste Management, Landscape and Visual	 Sufficient watering of the works site with the active dust emitting activities, Limitation of the speed for vehicles on unpaved site roads, Properly cover the stockpiles, Good maintenance to the plant and equipment, Use of quieter plant and Quality Powered Mechanical Equipment (QPME), Provide movable noise barriers, Appropriate desilting/ sedimentation devices provided on site for treatment before discharge, Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall, Onsite waste sorting and implementation of trip ticket system, Good management and control on construction waste reduction, Erection of decorative screen hoarding, Strictly following the Environmental Permits and Licenses, and Provide sufficient mitigation measures as recommended in Approved EIA Reports. 	

6.2 Monitoring Schedules for the Next Three Months

6.2.1 The tentative schedules for environmental monitoring in the coming three months are provided in in the appendices of the corresponding Monthly EM&A.

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7. CONCLUSIONS

- 7.1.1 No Action / Limit Level exceedance was recorded for 24-hr TSP monitoring in the reporting month.
- 7.1.2 No Action / Limit Level exceedance was recorded for 1-hr TSP monitoring in the reporting month.
- 7.1.3 No Action / Limit Level exceedance was recorded for noise monitoring in the reporting month.
- 7.1.4 No complaint, notification of summons or prosecution was received for Contract No. KL/2014/01, Contract No. KL/2015/02, Contract No. ED/2018/01 and Contract No. ED/2018/05 in this reporting month.
- 7.1.5 The potential environmental impacts arising from the coming two months of major construction activities and the control measures are shown in **Table 6.1**.

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Appendix A

Monthly EM&A Report For Contract No. KL/2014/01 Kai Tak Development - Stage 2 Infrastructure works for Developments at Southern Part of the Former Runway

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Civil Engineering and Development Department

EP-337/2009 & EP-445/2013/A

Contract No. KL/2014/01

Kai Tak Development – Stage 2 Infrastructure works for Developments at Southern Part of the Former Runway

> Monthly EM&A Report April 2022

> > (Version 1.0)

Approved By	
	(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

CINOTECH CONSULTANTS LTD Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong Tel: (852) 2151 2083 Fax: (852) 3107 1388 Email: info@cinotech.com.hk



Ka Shing management consultant Limited Carbon Auditæmen



Our ref: 11-05-2022

11-05-2022

By email: clive.cheng@aecom-ktd.com and By hand

Supervising Officer Representative Aecom Asia Co Ltd. 8/F Grand Central Plaza Tower 2 138 Shatin Rural Committee Road Sha Tin, N.T. Hong Kong (Attn: Mr. Cheng Chi Hung)

Dear Mr. Cheng,

Re: Contract No. KL/2014/01 (Environmental Permit Nos. EP-337/2009 and EP-445/2013/A) Kai Tak Development -- Stage 2 Infrastructure Works for Developments at Southern Part of the Former Runway Monthly EM&A report for April 2022 (version 1.0)

Reference is made to the Environmental Team's submission of the draft Monthly EM&A Report (version 1.0) for April 2022 provided to Independent Environmental Checker (IEC) via email dated on 11-5-2022 for review and comment.

Please be informed that IEC has no adverse comment on the captioned submission. IEC writes to verify the captioned submission in accordance with Specific Condition 2.2 of the Environmental Permit No. 337/2009 and 445/2013/A.

Thank you very much for your attention and please feel free to contact the undersigned should you require further information.

Yours faithfully,

c.c.

For and on behalf of

Ka Shing Management Consultant Limited

Ir. Dr. Douglas WONG

Independent Environmental Checker

CEDD	Mr. Patrick Lee	(By email: patricksllee@cedd.gov.hk)
AECOM	Mr. Anthony Lok	(By email: anthony.lok@aecom-ktd.com)
CEC-CCC	Mr. Eric Fong	(By email: eric-cs-fong@continental-engineering.com)
Cinotech	Mr. K.S Lee	(By email: ks.lee@cinotech.com.hk)

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ISO ISO ISO 9001 14001 45001 Environmental Management Occupational Health and Safety Quality Management Management FS 681274 EMS 717625 OHS 717629

TABLE OF CONTENTS

	EXECUTIVE SUMMARY	
	Environmental Monitoring Works	
	Environmental Licenses and Permits	
	Key Information in the Reporting Month	
	Future Key Issues	
1.	INTRODUCTION4	ļ
	Background4	-
	Project Organizations	
	Construction Activities undertaken during the Reporting Month	į
	Summary of EM&A Requirements	
2.	AIR QUALITY	,
	Monitoring Requirements	,
	Observations	
3.	NOISE	
	Monitoring Requirements	ł
	Observations	
4.	LANDSCAPE AND VISUAL9)
	Monitoring Requirements)
	Results and Observations	
5.	ENVIRONMENTAL AUDIT)
	Site Audits)
	Status of Environmental Licensing and Permitting	
	Status of Waste Management	
	Implementation Status of Environmental Mitigation Measures	
	Summary of Mitigation Measures Implemented13	;
	Implementation Status of Event Action Plans13	
	Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution	
		ì
6.	FUTURE KEY ISSUES14	ŀ
7.	CONCLUSIONS AND RECOMMENDATIONS16)
	Conclusions	;
	Recommendations16	í

LIST OF TABLES

Table I	Non-compliance Recorded for the Project in the Reporting Month	2
	Summary Table for Key Information in the Reporting Month	
	Key Project Contacts	
	Construction Programme Showing the Inter-Relationship with Environmental Protection/Mitigation	
	Measures	6
Table V	Summary of Environmental Licensing and Permit Status	11
	Observations and Recommendations of Site Inspections	

LIST OF FIGURES

Figure 1 Site Layout Plan

LIST OF APPENDICES

А	Action and	d Limit Levels
А	Action and	d Limit Level

- B Summary of Exceedance
- C Site Audit Summary
- D Event Action Plans
- E Environmental Mitigation Implementation Schedule (EMIS)
- F Summaries of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution
- G Waste Generated Quantity

EXECUTIVE SUMMARY

Introduction

- This is the 73rd Monthly Environmental Monitoring and Audit Report prepared by Cinotech Consultants Ltd. for "Contract No. KL/2014/01 - Kai Tak Development – Stage 2 Infrastructure Works for Developments at the Southern Part of the Former Runway" (Hereafter referred to as "the Project"). This contract work comprises two Schedule 2 designated projects (DP), namely the new distributor road D4 (part) and roads D3A & D4A serving the planned KTD. The DPs are part of the designated projects under Environmental Permits (EP) No.: EP-337/2009 ("New distributor roads serving the planned Kai Tak Development") and EP-445/2013/A ("Kai Tak Development – Roads D3A & D4A") respectively. This report documents the findings of EM&A Works conducted in April 2022.
- 2. With reference to the same principle of EIA report of the Project, air quality monitoring station should be provided at the Air Sensitive Receivers (ASR) within 500 m from the boundary of this Project while construction noise monitoring station should be provided at the Noise Sensitive Receivers (NSR) within 300 m from the boundary of this Project. Since the opening of the Centre of Excellence in Paediatrics (Children's Hospital) on 18 December 2018, the hospital is considered as the only relevant monitoring location and therefore the monitoring is required.
- 3. The major site activities undertaken in the reporting month included:
 - Architectural features works at landscaped deck and ground floor open space;
 - Defect work of pedestrian streets;
 - E&M works;
 - Laying of paving blocks for footpath;
 - Planting works along footpath and at deck level, and;
 - TTA implementation, minor works at Shing Fung Road and Wang Chiu Road / Kai Cheung Road.

Environmental Monitoring Works

- 4. 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.
- 5. Summary of the non-compliance in the reporting month for the Project is tabulated in **Table I**.

Parameter	No. of Project-related Exceedance		Action Taken	
Parameter	Action Level	Limit Level	ACTION TAKEN	
Noise	0	0	N/A	

Environmental Monitoring for Air Quality and Construction Noise

6. No monitoring for air quality and construction noise is required. No Action/Limit Level exceedance was recorded.

Environmental Licenses and Permits

- Licenses/Permits granted to the Project include the Environmental Permits (EP) for the Project, EP-337/2009 issued on 23 April 2009 and EP-445/2013 issued on 3 May 2013 (Amended Environmental Permit (No.: EP-445/2013/A) issued on 13 August 2014).
- 8. Billing Account for Disposal of Construction Waste (A/C No. 7024073)
- 9. Registration of Chemical Waste Producer (License: 5213-247-C4004-01).
- 10. Water Discharge License (License: WT00023634-2016).
- 11. Construction Noise Permits (Permit: GW-RE0442-20, GW-RE0639-20, GW-RE0045-21, GW-RE0717-21 & GW-RE0656-21)

Key Information in the Reporting Month

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

Table IISummary Table for Key Information in the Reporting Month

Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
Complaint received	0		N/A	N/A	
Reporting Changes	0		N/A	N/A	
Notifications of any summons & prosecutions received	0		N/A	N/A	

Future Key Issues

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

- Architectural features works at landscaped deck and ground floor open space;
- Defect work of pedestrian streets;
- E&M works;
- Laying of paving blocks for footpath;

- Noise barrier modification
- Planting works along footpath and at deck level, and;
- TTA implementation, minor works at Shing Fung Road and Wang Chiu Road / Kai Cheung Road.

Reporting Changes

14. Since the major parts of Works under Contract no. KL/2014/03 has been completed, the environmental monitoring works of EM&A monitoring station, KTD1a, was then handed over to the ET of Contract no. ED/2018/04 in August, 2020. In order to obtain the environmental impact monitoring data with higher representativeness based on several factors, such as distance between monitoring location and the sensitive receiver, non-project related interference, obstruction to the construction works on site and the power supply problem, the monitoring location KTD1a was relocated to the original location as proposed in the EM&A manual (AEIAR-174/2013), and renamed as KTD1 on 3 August 2020.

1. INTRODUCTION

Background

- 1.1 The Kai Tak Development (KTD) is located in the south-eastern part of Kowloon Peninsula, comprising the apron and runway areas of the former Kai Tak Airport and existing waterfront areas at To Kwa Wan, Ma Tau Kok, Kowloon Bay, Kwun Tong and Cha Kwo Ling. It covers a land area of about 328 hectares. Stage 2 Infrastructure Works for Developments for Southern Part of the Former Runway is one of the construction stages of KTD. It contains two Schedule 2 DPs including new distributor roads serving the planned KTD and KTD Roads D3A & D4A. The general layout of the Project is shown in **Figure 1.**
- 1.2 One Environmental Permit (EP) No.: EP-337/2009 was issued on 23 April 2009 for new distributor roads serving the planned KTD and one Environmental Permit No.: EP-445/2013 was issued on 3 May 2013 for Kai Tak Development Roads D3A & D4A to Civil Engineering and Development Department (CEDD) as the Permit Holder. Pursuant to Section 13 of the EIAO, the Director of Environmental Protection Department amended the Environmental Permit No.: EP-445/2013 based on the Application No. VEP-449/2014 and the Environmental Permit (No.: EP-445/2013/A) was issued on 13 August 2014.
- 1.3 A study of environmental impact assessment (EIA) was undertaken to consider the key issues of air quality, noise, water quality, waste, land contamination, cultural heritage and landscape and visual impact, and identify possible mitigation measures associated with the works. EIA Reports (Register No. AEIAR-130/2009 and AEIAR-170/2013) were approved by the Environmental Protection Department (EPD) on 4 March 2009 and 3 May 2013 respectively.
- 1.4 Cinotech Consultants Limited (Cinotech) was commissioned by Civil Engineering and Development Department (CEDD) to undertake the role of the Environmental Team (ET) for the Contract No. KL/2014/01 Stage 2 Infrastructure Works for Developments at the Southern Part of the Former Runway. The construction work under KL/2014/01 comprises the construction of part of the Road D4 under the EP (EP-337/2009) and the construction of Roads D3A & D4A under the EP (EP-445/2013/A).
- 1.5 Cinotech Consultants Limited was commissioned by Civil Engineering and Development Department (CEDD) to undertake the Environmental Monitoring and Audit (EM&A) works for the Project. The construction commencement of this Contract is on 13 April 2016. This is the 73rd Monthly EM&A report summarizing the EM&A works for the Project in April 2022.
- 1.6 All project information since the commencement of work under EPs including Monthly EM&A Reports is made available to the public via internet access at the website: <u>https://www.epd.gov.hk/eia/english/register/index8/vep4492014_content.html</u>

Project Organizations

- 1.7 Different parties with different levels of involvement in the project organization include:
 - Project Proponent Civil Engineering and Development Department (CEDD).
 - The Supervising Officer and the Supervising Officer's Representative (SO) AECOM Asia Co. Ltd. (AECOM).
 - Environmental Team (ET) Cinotech Consultants Limited (CCL).
 - Independent Environmental Checker (IEC) Ka Shing Management Consultant Ltd. (KSMC).
 - Contractor Continental Engineering Corp. and Chit Cheung Construction Co. Ltd. Joint Venture (CCJV).
- 1.8 The key contacts of the Project are shown in **Table III.**

Table III

Key Project Contacts

Party	Role	Contact Person	Position	Phone No.	Fax No.
CEDD	Project Proponent	Mr. Keith Chu	Senior Engineer	3579 2450	3579 4516
		Ms. Adonia Yung	Engineer	3579 2124	
AECOM	Supervising Officer	Mr. Clive Cheng	CRE	3746 1801	2798 0783
Cinotech	Environmental Team	Mr. K S Lee	Environmental Team Leader	2151 2091	3107 1388
		Ms. Betty Choi	Audit Team Leader	2151 2072	
KSMC	Independent Environmental Checker	Dr. Douglas Wong	IEC	2618 2166	2120 7752
CCJV	Contractor	Mr. Jack Lai	Environmental Officer	2960 1398	2960 1399

Construction Activities undertaken during the Reporting Month

- 1.9 The site activities undertaken in the reporting month included:
 - Architectural features works at landscaped deck and ground floor open space;
 - Defect work of pedestrian streets;
 - E&M works;
 - Laying of paving blocks for footpath;
 - Planting works along footpath and at deck level, and;
 - TTA implementation, minor works at Shing Fung Road and Wang Chiu Road / Kai Cheung Road.

1.10 The construction programme showing the inter-relationship with environmental protection/mitigation measures is presented in **Table IV**.

Table IV	Construction Programme Showing the Inter-Relationship with Environmental
Protection/Mit	tigation Measures

Construction Works	Major Environmental Impact	Control Measures	
As mentioned in Section 1.8	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; Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall; Provide mitigation measure to temporary use of chemicals; Provide sufficient mitigation measures as recommended in Approved EIA Report/Lease requirement.	

Summary of EM&A Requirements

- 1.11 The EM&A programme requires construction noise monitoring, air quality monitoring, landscape and visual monitoring and environmental site audit. 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 requirements and mitigation measures, as recommended in the EM&A Manual under the EP.
- 1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 5 of this report.

2. AIR QUALITY

Monitoring Requirements

- 2.1 With reference to the same principle of EIA report of the Project, air quality monitoring station should be provided at the Air Sensitive Receivers (ASR) within 500 m from the boundary of this Project. Since the opening of the Centre of Excellence in Paediatrics (Children's Hospital) on 18 December 2018, the hospital is considered as the only relevant monitoring location and therefore the monitoring is required.
- 2.2 As the monitoring works for the hospital is covered by the Contract KL/2014/03 (Kai Tak Development Stage 3 Infrastructure Works for Developments at the Southern Part of the Former Runway) at the monitoring station (KTD1), the corresponding monitoring results for April 2022 should be accessed in the EM&A report for the reporting month. Appendix A shows the established Action and Limit Levels for the environmental monitoring works.

Observations

- 2.3 No monitoring for air quality is required for this report. No Action/Limit Level exceedance at KTD1 was recorded. The summary of exceedance record in reporting month is shown in **Appendix B**.
- 2.4 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of air quality mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix C.**

3. NOISE

Monitoring Requirements

- 3.1 With reference to the same principle of EIA report of the Project, construction noise monitoring station should be provided at the Noise Sensitive Receivers (NSR) within 300 m from the boundary of this Project. Since the opening of the Centre of Excellence in Paediatrics (Children's Hospital) on 18 December 2018, the hospital is considered as the only relevant monitoring location and therefore the monitoring is required.
- 3.2 As the monitoring works for the hospital is covered by the Contract KL/2014/03 (Kai Tak Development Stage 3 Infrastructure Works for Developments at the Southern Part of the Former Runway) at the monitoring station (KTD1), the corresponding monitoring results for April 2022 should be accessed in the EM&A report for the reporting month. Appendix A shows the established Action and Limit Levels for the environmental monitoring works.

Observations

- 3.3 No monitoring for construction noise is required for this report. No Action/Limit Level exceedance at KTD1 was recorded. The summary of exceedance record in reporting month is shown in **Appendix B**.
- 3.4 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of construction noise mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix C**.

4. LANDSCAPE AND VISUAL

Monitoring Requirements

4.1 According to EM&A Manual of the Kai Tak Development EIA Study, ET shall monitor and audit the contractor's operation during the construction period on a weekly basis, and to report on the contractor's compliance.

Results and Observations

- 4.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of landscape and visual mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix C**.
- 4.3 No non-compliance of the landscape and visual impact was recorded in the reporting month.
- 4.4 Should non-compliance of the landscape and visual impact occur, action in accordance with the action plan presented in **Appendix D** shall be performed.

5. ENVIRONMENTAL AUDIT

Site Audits

- 5.1 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 C**.
- 5.2 Site audits were conducted by representatives of the Contractor, Supervising Officer and ET on 7, 14, 21 & 27 April 2022 in the reporting month. IEC joint site inspection was conducted on 27th April 2022. No non-compliance was observed during the site audits.

Status of Environmental Licensing and Permitting

5.3 All permits/licenses obtained for the Project are summarized in **Table V**.

Table V	Summary	y of Environ	mental Licensing and Permit Sta	tus	
D	Valid Period			64-4	
Permit No.	From	То	Details	Status	
Environmental P	ermit (EP)				
EP-337/2009	23/04/09 N/A Construction of new distributor roads serving the planned Kai Tak development.		Valid		
EP-445/2013/A	13/08/14	N/A	Construction of Kai Tak Development roads D3A and D4A	Valid	
Effluent Discharge	License	1			
WT00023634- 2016		31/03/21	Wastewater from the construction site including effluent treated by screen and sedimentation tank; There are no more need for the license after 31 March 2021 as the project is close to completion and no significant waste water is being generated from site.	Expired on 31 March 2021	
Registration of Ch	emical Waste	Producer			
5213-247-C4004- 01		N/A	Chemical Waste Types: Surplus paint, waste contaminated by paint, diesel, waste contaminated by diesel, spent lubricating oil and waste, soil contaminated by lubricating oil.	Valid	
Construction Noise			Ι		
GW-RE0442-20	14/6/20	13/12/20		Expired on 13 December 2020	
GW-RE0639-20	3/8/20	19/1/21	Construction Noise Permit for the use of powered mechanical equipment for carrying out construction work other than paraussing pilling and parforming	Expired on 19 February 2021	
GW-RE0045-21	20/1/21	19/7/21	 percussive pilling and performing prescribed construction work. Construction Noise Permit for the use of powered mechanical 	Expired on 19 July 2021	
GW-RE0656-21	9/7/21	30/9/21	equipment for carrying out construction work other than percussive pilling and performing prescribed construction work.	Valid	
GW-RE0717-21	30/7/2021	19/1/2022		Valid	

Status of Waste Management

- 5.4 The amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix G**.
- 5.5 In respect of the dump truck cover, the Contractor is reminded to take record photos and inspection to ensure that all dump trucks have fully covered the skip before leaving the site.

Implementation Status of Environmental Mitigation Measures

5.6 During site inspections in the reporting month, no non-conformance was identified. ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in **Table VI**.

 Table VI
 Observations and Recommendations of Site Inspections

			I
Parameters	Date	Observations and Recommendations	Follow-up
Water Quality			
Air Quality			
Noise			
Waste/ Chemical Management			
Landscape and Visual			
Permits/ Licenses			

Summary of Mitigation Measures Implemented

5.7 An updated summary of the EMIS is provided in **Appendix E**.

Implementation Status of Event Action Plans

5.8 The Event Action Plans for noise and landscape and visual are presented in AppendixD. No Event Action Plan for air quality is considered necessary.

Construction Dust

5.9 No Action/Limit Level exceedance was recorded in the reporting month.

Construction Noise

5.10 No Action/Limit Level exceedance was recorded in the reporting month.

Landscape and visual

5.11 No non-compliance was recorded in the reporting month.

Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution

5.12 The summaries of environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in **Appendix F**.

6. FUTURE KEY ISSUES

- 6.1 Major site activities undertaken for the coming two months include:
 - Architectural features works at landscaped deck and ground floor open space;
 - Defect work of pedestrian streets;
 - E&M works;
 - Laying of paving blocks for footpath;
 - Noise barrier modification
 - Planting works along footpath and at deck level, and;
 - TTA implementation, minor works at Shing Fung Road and Wang Chiu Road / Kai Cheung Road.
- 6.2 Key environmental issues in the coming month include:
 - Wastewater and runoff discharge from site;
 - Silt, mud and sand along u-channels and sedimentation tanks;
 - Review and implementation of temporary drainage system for the surface runoff;
 - Noise from operation of the equipment, especially for rock-breaking activities, piling works and machinery on-site;
 - Dust generation from stockpiles of dusty materials, exposed site area, excavation works and rock breaking activities;
 - Dust generating activity and on haul road;
 - Storage of construction materials on site;
 - Storage of chemicals/fuel and chemical waste/waste oil on site;
 - Accumulation of general and construction waste on site

6.3 The tentative program of major site activities and the impact prediction and control measures for the coming two months, i.e. May and June 2022 are summarized as follows:

Construction Works	Major Impact Prediction	Control Measures		
As mentioned in Section 6.1	Air quality impact (dust) Water quality impact (surface run-off)	 a) Frequent watering of haul road and unpaved/exposed areas; b) Frequent watering or covering stockpiles with tarpaulin or similar means; and c) Watering of any earth moving activities. a) Diversion of the collected effluent to de- silting facilities for treatment prior to discharge to public storm water drains; b) Provision of adequate de-silting facilities for treating surface run-off and other collected effluents prior to discharge; c) Provision of perimeter protection such as sealing of hoarding footings to avoid run-off from entering the existing storm water drainage system via public road; and d) Provision of measures to prevent discharge into the stream. 		
	Noise Impact	 a) Scheduling of noisy construction activities if necessary to avoid persistent noisy operation; b) Controlling the number of plants use on site; c) Regular maintenance of machines; and d) Use of acoustic barriers if necessary. a) Maintenance involving activities with 		
	Waste/ Chemical Management	 a) Maintenance involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges. b) Chemical wastes should be hold by suitable containers with clear label and stored at a safe location. 		

7. CONCLUSIONS AND RECOMMENDATIONS

Conclusions

7.1 The Environmental Monitoring and Audit (EM&A) Report presents the EM&A works undertaken in April 2022.

Air Quality and Construction Noise

7.2 No regular monitoring air quality and noise monitoring is required for the Project. No Action/Limit Level exceedance was recorded.

Landscape and visual

7.3 No non-compliance was recorded in the reporting month.

Complaint and Prosecution

- 7.4 No environmental complaints and environmental prosecution were received in the reporting month.
- 7.5 The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

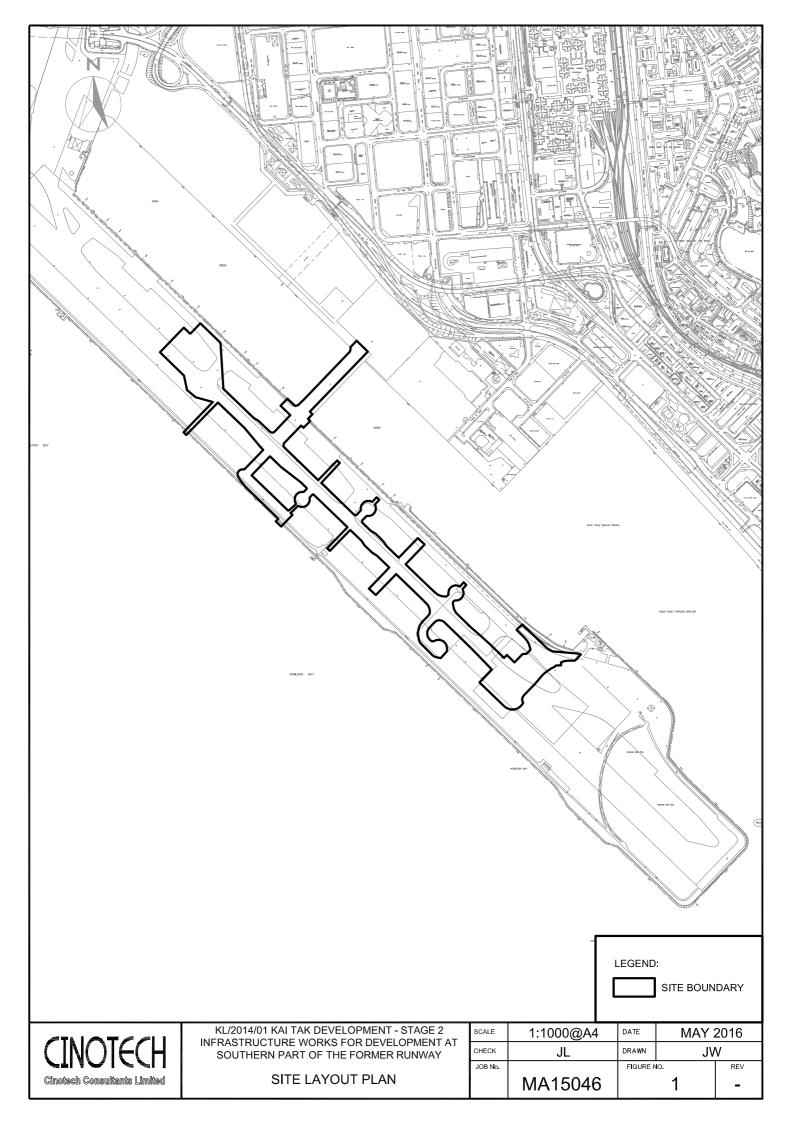
Recommendations

7.6 According to the environmental audit performed in the reporting month, the following recommendations were made:

Waste/ chemical management

• To avoid the accumulation of general refuse.

FIGURES



APPENDIX A ACTION AND LIMIT LEVELS

Appendix A - Action and Limit Levels

Monitoring Station	Parameter	Action Level (µg/ m ³)	$\begin{array}{c} \mbox{Limit Level}^{(1)(2)} \\ (\mu g/\ m^3) \end{array}$
KTD1	24-hr TSP	177	260
KTD1*	1-hr TSP	285	500

Table A-1 Action and Limit Levels for Air Quality Monitoring

* 1-hr TSP monitoring should be required in case of complaints.

Table A-2	Action and Limit Levels for Construction Noise Monitoring	
	Action and Limit Levels for Construction Noise Monitoring	

Time Period	Action Level	Limit Level ⁽¹⁾⁽²⁾
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A) 70dB(A)/65dB(A)*

Remarks: (1) If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

(2) No regular noise impact monitoring station for this Contract. It is subject to the noise sensitive receiver(s) and additional monitoring work.

(*) 70dB(A) and 65dB(A) for schools during normal teaching periods and school examination periods respectively.

APPENDIX B SUMMARY OF EXCEEDANCE

Contract No. KL/2014/01 Kai Tak Development –Stage 2 Infrastructure Works for Developments at the Southern Part of the Former Runway

Appendix B – Summary of Exceedance

Exceedance Record for Contract No. KL/2014/01

Reporting Month: April 2022

(A) Exceedance Record for Construction Dust

(NIL in the reporting month)

(B) Exceedance Record for Construction Noise

(NIL in the reporting month)

(C) Exceedance Record for Landscape and Visual

(NIL in the reporting month)

APPENDIX C SITE AUDIT SUMMARY

Checklist Reference Number	220407
Date	7 Apr 2022 (Thursday)
Time	13:30 - 14:30

Ref. No.	Non-Compliance	Related Item No.
NCI. 110.	None identified	
-	None identified	Related
Ref. No.	Remarks/Observations	Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	• F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licenses	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	No follow-up items are required from the previous site inspection (ref no.: 220330).	

	Name	Signature	Date
Recorded by	Becky Tang	July.	7 Apr 2022
Checked by	Colman Wong	Colman	8 Apr 2022

Checklist Reference Number	220414
Date	14 Apr 2022 (Thursday)
Time	13:30 - 14:30

Ref. No.	Non-Compliance	Related Item No.
Kel. 100.	None identified	
-	None identified	Related
Ref. No.	Remarks/Observations	Item No
	B. Water Quality	
	No environmental deficiency was identified during site inspection	
	C. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licenses	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	No follow-up items are required from the previous site inspection (ref no.: 220407).	

	Name	Signature	Date
Recorded by	Becky Tang	July.	14 Apr 2022
Checked by	Colman Wong	Colman	15 Apr 2022

Checklist Reference Number	220421
Date	21 Apr 2022 (Thursday)
Time	13:30 - 14:30

D 4 M		Related
Ref. No.	Non-Compliance	Item No
-	None identified	-
		Related
Ref. No.	Remarks/Observations	Item No
	B. Water Quality	
	No environmental deficiency was identified during site inspection	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licenses	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	No follow-up items are required from the previous site inspection (ref no.: 220414).	

	Name	Signature	Date
Recorded by	Becky Tang	July.	21 Apr 2022
Checked by	Colman Wong	Colman	22 Apr 2022

Checklist Reference Number	220427
Date	27 Apr 2022 (Wednesday)
Time	13:30 - 14:30

D A M		Related
Ref. No.	Non-Compliance	Item No
-	None identified	-
		Related
Ref. No.	Remarks/Observations	Item No
	B. Water Quality	
	No environmental deficiency was identified during site inspection	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits /Licenses	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	No follow-up items are required from the previous site inspection (ref no.: 220421).	

	Name	Signature	Date
Recorded by	Becky Tang	July.	27 Apr 2022
Checked by	Colman Wong	Colman	28 Apr 2022

APPENDIX D EVENT ACTION PLANS

Appendix D - Event Action Plans

Event/Action Plan for Construction Noise

EVENT		ACTI	ON	
	ET	IEC	ER	CONTRACTOR
Action Level being exceeded	 Notify ER, IEC and Contractor; Carry out investigation; Report the results of investigation to the IEC, ER and Contractor; Discuss with the IEC and Contractor on remedial measures required; Increase monitoring frequency to check mitigation effectiveness. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Review the investigation results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the ER accordingly; Advise the ER on the effectiveness of the proposed remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Submit noise mitigation proposals to IEC and ER; Implement noise mitigation proposals. (The above actions should be taken within 2 working days after the exceedance is identified)
Limit Level being exceeded	 Inform IEC, ER, Contractor and EPD; Repeat measurements to confirm findings; Increase monitoring frequency; Identify source and investigate the cause of exceedance; Carry out analysis of Contractor's working procedures; Discuss with the IEC, Contractor and ER on remedial measures required; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified) 	 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. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures; If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified) 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC and ER within 3 working days of notification; Implement the agreed proposals; Submit further proposal if problem still not under control; Stop the relevant portion of works as instructed by the ER until the exceedance is abated. (The above actions should be taken within 2 working days after the exceedance is identified)

Appendix D - Event Action Plans

Event/Action Plan for Landscape and Visual

EVENT ACTION		ACT	ION	
LEVEL	ET	IEC	ER	CONTRACTOR
Design Check	 Check final design conforms to the requirements of EP and prepare report. 	 Check report. Recommend remedial design if necessary 	 Undertake remedial design if necessary 	
Non- conformity on one occasion	 Identify Source Inform IEC and ER Discuss remedial actions with IEC, ER and Contractor Monitor remedial actions until rectification has been completed 	 Check report Check Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise ER on effectiveness of proposed remedial measures. Check implementatio n of remedial measures. 	 Notify Contractor Ensure remedial measures are properly implemented 	 Amend working methods Rectify damage and undertake any necessary replacement
Repeated Non- conformity	 Identify Source Inform IEC and ER Increase monitoring frequency Discuss remedial actions with IEC, ER and Contractor Monitor remedial actions until rectification has been completed If non- conformity stops, cease additional monitoring 	 Check monitoring report Check Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise ER on effectiveness of proposed remedial measures Supervise implementatio n of remedial measures. 	 Notify Contractor Ensure remedial measures are properly implemented 	 Amend working methods Rectify damage and undertake any necessary replacement

APPENDIX E ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EIA Ref.	Mitigation Measures	Status			
Construction Air Qu	Construction Air Quality				
S3.2 (AEIAR-130/2009)	8 times daily watering of the work site with active dust emitting activities.	٨			
(AEIAR-130/2003) S4.8 (AEIAR-170/2013)	Control measures stipulated in the approved KTD Schedule 3 EIA Report should be strictly followed.	٨			
S3.2 (AEIAR-130/2009) and S4.8	Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimize cumulative dust impacts.				
(AEIAR-170/2013)	 Stockpiling site(s) should be lined with impermeable sheeting and bunded. Stockpiles should be fully covered by impermeable sheeting to reduce dust emission. Misting for the dusty material should be carried out before being loaded into the 	^			
	 Any vehicle with an open load carrying area should have properly fitted side and tail boards. 				
	 Material having the potential to create dust should not be loaded from a level higher than the side and tail boards and should be dampened and covered by a clean tarpaulin. 	^			
	 The tarpaulin should be properly secured and should extent at least 300 mm over the edges of the sides and tailboards. The material should also be dampened if necessary before transportation. 	^			
	 The vehicles should be restricted to maximum speed of 10 km per hour and confined haulage and delivery vehicle to designated roadways insider the site. Onsite unpaved roads should be compacted and kept free of lose materials. 	^			
	• Vehicle washing facilities should be provided at every vehicle exit point.	^			

Appendix E - Summary of Implementation Schedule of Mitigation Measures for Construction Phase

EIA Ref.	Mitigation Measures	Status
	 The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores. Every main haul road should be scaled with concrete and kept clear of dusty materials or sprayed with water so as to maintain the entire road surface wet. Every stock of more than 20 bags of cement should be covered entirely by impervious sheeting placed in an area sheltered on the top and the three sides; and Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites. 	∧ ∧ ∧
Construction Noise		
S3.3 (AEIAR-130/2009)	Use of quiet PME, movable barriers barrier for Asphalt Paver, Breaker, Excavator and Hand-held breaker and full enclosure for Air Compressor, Bar Bender, Concrete Pump, Generator and Water Pump.	^
S3.3 (AEIAR-130/2009)	Good Site Practice:	
(AEIAK-130/2009)	• Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program.	^
	• Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program.	٨
	 Mobile plant, if any, should be sited as far away from NSRs as possible. 	^
	 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. 	٨
	 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. 	٨
	• Material stockpiles and other structures should be effectively utilized, wherever	^

EIA Ref.	Mitigation Measures	Status
	practicable, in screening noise from on-site construction activities.	
S3.3 (AEIAR-130/2009)	Scheduling of Construction Works during School Examination Period	N/A
S3.8 (AEIAR-170/2013)	Provision of a landscaped deck along Roads D3A & D4A.	N/A
S3.8 (AEIAR-170/2013)	 Provision of about 1090 m length of vertical noise barrier (connected to the deck) at Roads D3A & D4A; Provision of about 60 m length of overhang vertical noise barrier (connected to the deck) at Road D4A; and Provision of staircases with noise barriers next to Sites 4A1 and 4B1 It should be noted that the exact length of the mitigation measures would be subject to minor refinement during the detailed design stage. 	N/A N/A N/A
S3.8 (AEIAR-170/2013)	Non-noise sensitive use areas within Sites 4A1 and 4B1.	N/A
S3.8 (AEIAR-170/2013)	Avoid sensitive façade with openable window facing Road D3A.	N/A
Construction Water	Quality	
S3.4 (AEIAR-130/2009) and S5.8 (AEIAR-170/2013)	 <u>Construction Runoff</u> 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: use of sediment traps adequate maintenance of drainage systems to prevent flooding and overflow 	∧ ∧

EIA Ref.	Mitigation Measures	Status
	Construction site should be provided with adequately designed perimeter channel and pre- treatment 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.	
	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.	٨
S5.8 (AEIAR-170/2013)	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.	٨
	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.	٨
S3.4 (AEIAR-130/2009)	Sediment tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 m ³ capacity, are recommended as a general mitigation measure	٨

EIA Ref.	Mitigation Measures	Status
	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.	
S3.4 (AEIAR-130/2009) and S5.8 (AEIAR-170/2013)	Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50 m 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.	^
(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.	٨
S3.4 (AEIAR-130/2009)	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.	٨
	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.	۸
S3.4 (AEIAR-130/2009) and S5.8 (AEIAR-170/2013)	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 wash-water should have sand and silt settled 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	٨

EIA Ref.	Mitigation Measures	Status
	from, the wheel-wash 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.	
S5.8 (AEIAR-170/2013)	Boring and Drilling Water Water used in ground boring and drilling for site investigation or rock / soil anchoring should as far as practicable be re-circulated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities.	^
	Acid Cleaning, Etching and Pickling Wastewater 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	^
S3.4	Drainage	
(AEIAR-130/2009)	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 should be no direct discharge of effluent from the site into the sea.	٨
S3.4 (AEIAR-130/2009)	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.	^

EIA Ref.	Mitigation Measures	Status
S3.4 (AEIAR-130/2009)	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 of the Victoria Harbour WCZ.	٨
S5.8 (AEIAR-170/2013)	There is a need to apply to EPD for a discharge licence for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge licence. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. Minimum distance of 100 m should be maintained between the discharge points of construction site effluent and the existing seawater intakes and the planned WSR mentioned in S5.3.1 as appropriate. The beneficial uses of the treated effluent for other on-site activities such as dust suppression, wheel washing and general cleaning etc., can minimise water consumption and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the relevant WPCO licence which is under the ambit of regional office (RO) of EPD.	Λ
S3.4 (AEIAR-130/2009) and S5.8 (AEIAR-170/2013)	Sewage EffluentConstruction 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 should be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor should also be responsible for waste disposal and maintenance practices.	٨
S5.8	Notices should be posted at conspicuous locations to remind the workers not to discharge	^

EIA Ref.	Mitigation Measures	Status
(AEIAR-170/2013)	any sewage or wastewater into the surrounding environment. Regular environmental audit of the construction site will provide an effective control of any malpractices and can encourage continual improvement of environmental performance on site. It is anticipated that sewage generation during the construction phase of the project would not cause water pollution problem after undertaking all required measures.	
S3.4 (AEIAR-130/2009) and S5.8 (AEIAR-170/2013)	Stormwater Discharges Minimum distances of 100 m should be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes.	٨
	Debris and Litter In order to maintain water quality in acceptable conditions with regard to aesthetic quality, contractors should be required, under conditions of contract, to ensure that site management is optimised and that disposal of any solid materials, litter or wastes to marine waters does not occur.	٨
S5.8 (AEIAR-170/2013)	Accidental Spillage 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. 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.	Λ

EIA Ref.	EIA Ref. Mitigation Measures	
	 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: Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport. Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents. Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area. 	∧ ∧ ∧
Construction Waste	Management	
S6.7 (AEIAR-170/2013)	Prepare a Waste Management Plan, which becomes a part of the Environmental Management Plan, in accordance with the requirements stipulated in ETWB TC (W) No. 19/2005, approved by the Engineer/Supervising Officer of the Project based on current practices on construction sites.	٨
S3.5 (AEIAR-130/2009) and S6.7 (AEIAR-170/2013)	 Good Site Practices It is not anticipated that adverse waste management related impacts would arise, provided that good site practices are adhered to. Recommendations for good site practices during construction activities include: 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 proper waste management and chemical waste handling procedures 	^
	Provision of sufficient waste disposal points and regular collection for disposal	^

EIA Ref.	Mitigation Measures	Status
	• Appropriate measures to minimise windblown litter and dust during transportation of	^
	waste by either covering trucks or by transporting wastes in enclosed containers	
	 A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites) 	٨
	 Regular cleaning and maintenance systems, sumps and oil interceptors 	٨
	 Separation of chemical wastes for special handling and appropriate treatment 	٨
	Waste Reduction Measures	
	Good management and control can prevent the generation of a significant amount of	
	waste. Waste reduction is best achieved at the planning and design stage, as well as by	
	ensuring the implementation of good site practices. Recommendations to achieve waste reduction include:	
	 Sort C&D waste from demolition of the remaining structures to recover recyclable portions such as metals 	٨
	• 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, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force	^
	 Any unused chemicals or those with remaining functional capacity should be recycled 	^
	 Proper storage and site practices to minimise the potential for damage or 	Λ
	contamination of construction materials	
	• Plan and stock construction materials carefully to minimize amount of waste	٨
	 generated and avoid unnecessary generation of waste Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycle. 	^

EIA Ref.	Mitigation Measures	Status
S3.5 (AEIAR-130/2009)	 Construction and Demolition Materials Mitigation measures and good site practices should be incorporated in the contract document to control potential environmental impact from handling and transportation of C&D material. The mitigation measures include: Where it is unavoidable to have transient stockpiles of C&D material within the Device transient stockpiles of C&D	Λ
	 Project work site pending collection for disposal, the transient stockpiles shall be located away from waterfront or storm drains as far as possible. Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric. Ship hoist for material transment should be totally enclosed by immervious shouting. 	Λ Λ
	 Skip hoist for material transport should be totally enclosed by impervious sheeting. Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site. 	^ ^
	• The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores.	٨
	• The load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure dust materials do not leak from the vehicle.	^
	• All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet.	٨
	• The height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation from unloading.	٨
	When delivering inert C&D material to public fill reception facilities, the material should consist entirely of inert construction waste and of size less than 250mm or other sizes as agreed with the Secretary of the Public Fill Committee. In order to monitor the disposal of the surplus C&D material at the designed public fill reception facility and to control fly tipping, a trip-ticket system as stipulated in the ETWB TCW No. 31/2004 "Trip Ticket	٨

EIA Ref.	Mitigation Measures	Status	
	System for Disposal of Construction and Demolition Materials" should be included as one of the contractual requirement sand implemented by an Environmental Team undertaking the Environmental Monitoring and Audit work. An Independent Environmental Checker should be responsible for auditing the results of the system.		
S3.5 (AEIAR-130/2009)	General Refuse General refuse should be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Effective collection and storage methods (including enclosed and covered area) of site wastes would be required to prevent waste materials from being blown around by wind, wastewater discharge by flushing or leaching into the marine environment, or creating odour nuisance or pest and vermin problem	^	
Construction Lands	cape and Visual		
\$3.8.12	• Minimized construction area and contractor's temporary works areas.	٨	
(AEIAR-130/2009)	• All existing trees should be carefully protected during construction.	Λ	
and S7.9 (AEIAR-170/2013)	• Trees unavoidably affected by the works should be transplanted where practical. Detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBC 2/2004 and 3/2006. Final locations of transplanted trees should be agreed prior to commencement of the work.	٨	
	• Control of night-time lighting.	٨	
	• Erection of decorative screen hoarding.	٨	
	• Reduction of construction period to practical minimum.	^	
	• Limitation of / Ensuring no run-off into surrounding landscape and adjacent seawater areas.	٨	
	• Temporary or advance landscape should be provided along the temporary access roads to the Cruise Terminal until such time as road D3 is open.	^	

Remarks:	EIA Report (AEIAR-130/2009) – Kai Tak Development			
	EIA Report (AEIAR-170/2013) – Kai Tak Development – Roads D3A & D4A			
	Compliance of mitigation measure;	X Non-compliance of mitigation measure;		
	N/A Not Applicable at this stage;N/A(1) Not observed;	• Non-compliance but rectified by the contractor;		
	* Recommendation was made during site audit but improved/rectified by the contractor.	# Recommendation was made during site audit but not yet improved/rectified by the contractor.		

APPENDIX F SUMMARIES OF ENVIRONMENTAL COMPLAINT, WARNING, SUMMON AND NOTIFICATION OF SUCCESSFUL PROSECUTION

Contract No. KL/2014/01 Kai Tak Development –Stage 2 Infrastructure Works for Developments at the Southern Part of the Former Runway

Appendix F – Summary of environmental complaint, warning, summon and notification of successful prosecution

Reporting Month: April 2022

Contract No. KL/2014/01

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Investigation/Mitigation Action	Status
N/A	N/A	N/A	N/A	N/A	N/A

Remarks: No environmental complaint/warning/summon and prosecution were received in the reporting period.

APPENDIX G WASTE GENERATED QUANTITY

Appendix G. Monthly Summary Waste Flow Table

Name of Department: CEDD

Contract No: KL/2014/01

	Actual Quantities of Inert C&D Materials Generated Monthly				Actual Quantities of C&D Wastes Generated Monthly						
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 tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in tonne)
Jan	43.77	0	0	0	0.00	0	0	0	0	0	43.77
Feb	58.14	0	0	0	0.00	0	0	0	0	0	58.14
Mar	87.83	0	0	0	0.00	0	0	0	0	0	87.83
Apr	247.25	0	0	0	0.00	0	0	0	0	0	247.25
May		0	0	0		0	0	0	0	0	
June		0	0	0		0	0	0	0	0	
Sub-total		0	0	0	0.00	0	0	0	0	0	
July		0	0	0	j	0	0	0	0	0	
Aug		0	0	0		0	0	0	0	0	
Sept		0	0	0		0	0	0	0	0	
Oct		0	0	0		0	0	0	0	0	
Nov		0	0	0		0	0	0	0	0	
Dec		0	0	0		0	0	0	0	0	
Total	436.99	0	0	0	0.00	0	0	0	0	0	436.99

Monthly Summary Waste Flow Table for 2022

 \ast Transfer to alterative disposal ground at Lung Kwu Sheung Tan EPD approved recycler

FUGRO TECHNICAL SERVICES LIMITED

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Appendix B

Monthly EM&A Report For Contract No. KL/2015/02 Kai Tak Development - Stage 5A Infrastructure at Former North Apron Area

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Civil Engineering and Development Department

EP-337/2009 – New Distributor Roads Serving the Planned KTD

Contract No. KLN/2016/04 Environmental Monitoring Works for Contract No. KL/2015/02 Kai Tak Development – Stage 5A Infrastructure at Former North Apron Area

Monthly EM&A Report

April 2022

(Version 1.1)

Certified By	
	(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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Email: info@cinotech.com.hk



FUGRO TECHNICAL SERVICES LIMITED Fugro Development Centre 5 Lok Yi Street, Tai Lam Tuen Mun, NT Hong Kong

 Date
 13 May 2022

 Our Ref.
 MCL/ED/0163/2022/C

Cinotech Consultants Limited Rm 1710, Technology Park, 18 On Lai Street, Shatin, New Territories, Hong Kong

BY EMAIL

Attn.: Mr. K.S Lee

Dear Sir,

Contract No. KL/2015/02 Kai Tak Development –Stage 5A Infrastructure at Former North Apron Verification of Monthly EM&A Report for April 2022

We refer to your emails dated 13 May 2022 for the captioned report prepared by the ET.

We have no further comment and hereby verify the Report in accordance with Clause 3.3 of Environmental Permit no. EP-337/2009.

Should you require further information, please do not hesitate to contact me on 3565 4114 or our Cyrus Lai on 3565 4442.

Assuring you of our best attention at all times.

Yours faithfully, For and on behalf of FUGRO TECHNICAL SERVICES LIMITED

Colin K. L. Yung Independent Environmental Checker

CY

c.c. CEDD –

AECOM –

Attn.: Mr. Ricky Chan Attn.: Mr. Vincent Yip Attn.: Mr. Vincent Lee Attn.: Mr. Teddy Shih

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TABLE OF CONTENTS

	EXECUTIVE SUMMARY	.1
	Introduction Environmental Monitoring Works Environmental Licenses and Permits	.2 .3
	Key Information in the Reporting Month Future Key Issues	
1	INTRODUCTION	.4
	Background Project Organizations Construction Activities undertaken during the Reporting Month Summary of EM&A Requirements	.4 .5
2	AIR QUALITY	.7
	Monitoring Requirements Monitoring Locations Monitoring Equipment Monitoring Parameters, Frequency and Duration Monitoring Methodology and QA/QC Procedure Results and Observations	.7 .7 .8 .8
3	NOISE1	12
	Monitoring Requirements Monitoring Locations Monitoring Equipment Monitoring Parameters, Frequency and Duration Monitoring Methodology and QA/QC Procedures Maintenance and Calibration Results and Observations	12 12 13 13 14
4	COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS	16
5	LANDSCAPE AND VISUAL	18
	Monitoring Requirements Results and Observations	
6	ENVIRONMENTAL INSPECTION	19
	Site Inspections Review of Environmental Monitoring Procedures	19 19 20 20 21 21
7	FUTURE KEY ISSUES	23
	Monitoring Schedule for Next Month	24
8	CONCLUSIONS AND RECOMMENDATIONS	25
	Conclusions	

LIST OF TABLES

- Table I
 Air Quality and Noise Monitoring Stations for this Project
- Table IINon-compliance Recorded for the Project in the Reporting Month
- Table IIISummary Table for Key Information in the Reporting Month
- Table 1.1Key Project Contacts
- Table 1.2Construction Programme Showing the Inter-Relationship with Environmental
Protection/Mitigation Measures
- Table 2.1Locations for Air Quality Monitoring
- Table 2.2Air Quality Monitoring Equipment
- Table 2.3
 Impact Dust Monitoring Parameters, Frequency and Duration
- Table 2.4Summary Table of Air Quality Monitoring Results during the reporting month
- Table 3.1Noise Monitoring Stations
- Table 3.2Noise Monitoring Equipment
- Table 3.3
 Noise Monitoring Parameters, Frequency and Duration
- Table 3.4
 Major Noise Source identified at the Designated Noise Monitoring Stations
- Table 3.5Baseline Noise Level and Noise Limit Level for Monitoring Stations
- Table 4.1Comparison of 1-hr TSP data with EIA predictions
- Table 4.2Comparison of 24-hr TSP data with EIA predictions
- Table 4.3
 Comparison of Noise Monitoring Data with EIA predictions
- Table 6.1Summary of Environmental Licensing and Permit Status
- Table 6.2
 Observations and Recommendations of Site Inspections

LIST OF FIGURES

- Figure 1 Site Layout Plan
- Figure 2 Location of Air Quality Monitoring Stations
- Figure 3 Location of Noise Monitoring Stations
- Figure 4 Location of Wind Data Monitoring Equipment

LIST OF APPENDICES

- A Action and Limit Levels for Air Quality and Noise
- B Copies of Calibration Certificates
- C Weather Information
- D Environmental Monitoring Schedules
- E 1-hour TSP Monitoring Results and Graphical Presentations
- F 24-hour TSP Monitoring Results and Graphical Presentations
- G Noise Monitoring Results and Graphical Presentations
- H Summary of Exceedance
- I Site Audit Summary
- J Event Action Plans
- K Environmental Mitigation Implementation Schedule (EMIS)
- L Summaries of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution
- M Summary of Waste Generation and Disposal Records
- N Construction Programme

EXECUTIVE SUMMARY

Introduction

- 1. This is the 64th Monthly Environmental Monitoring and Audit Report prepared by Cinotech Consultants Ltd. for "Contract No. KL/2015/02 Kai Tak Development Stage 5A Infrastructure at Former North Apron Area" (Hereafter referred to as "the Project"). This contract comprises one Schedule 2 designated project (DP), namely the new distributor road D1 serving the planned KTD. The DP is part of the designated project under Environmental Permit (EP) No.: EP-337/2009 ("New distributor roads serving the planned Kai Tak Development") respectively. This report documents the findings of EM&A Works conducted during April 2022.
- 2. With reference to the same principle of EIA report of the Project, air quality monitoring stations within 500m and noise monitoring stations within 300m from the boundary of this Project are considered as relevant monitoring locations. In such regard, the relevant air quality and noise monitoring locations are tabulated in **Table I** (see **Figure 2 and 3** for their locations).

Locations	Monitoring Stations In accordance with EM&A Manual	Alternative Monitoring Stations	
Air Quality Monitoring Stations			
	Yes (1-hour TSP)	N/A	
AM2 - Lee Kau Yan Memorial School	No (24-hour TSP)	AM2(A) – Ng Wah Catholic Secondary School	
Noise Monitoring Stations			
M3 - Cognitio College	No	M3(A) – The Bridge connecting The Latitude	
M4 - Lee Kau Yan Memorial School	Yes	N/A	
M5 – Nam Yuen	No	M5(C) – Mercy Grace's Home	

Table I – Air Quality and Noise Monitoring Stations for this Project

- 3. The major site activities undertaken in the reporting month included:
 - Lift installation work of LT1 at SKLR Playground
 - Excavating and laying cable ducts for E&M works at SKLR Playground
 - Carry out water proofing works and backfilling works at TTA Stage 3 & 4 of PERE
 - Install bulkhead lighting works at Subway

Environmental Monitoring Works

- 4. 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.
- 5. Summary of the non-compliance in the reporting month for the Project is tabulated in **Table II**.

	No. of Project-rel		
Parameter	Action Level	Limit Level	Action Taken
1-hr TSP	0	0	N/A
24-hr TSP	0	0	N/A
Noise	0	0	N/A

Table II Non-compliance Recorded for the Project in the Reporting Month

1-hour & 24-hour TSP Monitoring

- 6. All 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 7. All 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Construction Noise Monitoring

8. All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Environmental Licenses and Permits

- 9. Licenses/Permits granted to the Project include the Environmental Permit (EP) for the Project, EP-337/2009 issued on 23 April 2009. All valid Licenses/Permits for this Project are shown in **Table 6.1**.
 - Billing Account for Construction Waste Disposal (A/C# 7026164). •
 - Registration of Chemical Waste Producer (WPN5213-286-P3271-01).

Key Information in the Reporting Month

10. Summary of key information in the reporting month is tabulated in Table III.

Summary Table for Key Information in the Reporting Month Table III

Event	Event Details		Action Taken	Status	Remark	
Event	Number	Number Nature		Status	Kellial K	
Complaint received			N/A	N/A		
Reporting Changes			N/A	N/A		
Notifications of any summons & prosecutions received			N/A	N/A		

Future Key Issues

- 11. The future key environmental issues in the coming two months include:
 - Dust generation from stockpiles of dusty materials, exposed site area, excavation
 - Works and rock breaking activities;
 - Water spraying for dust generating activity and on haul road;
 - Proper storage of construction materials on site;
 - Storage of chemicals/fuel and chemical waste/waste oil on site;
 - Accumulation of general and construction waste on site;
 - Noise from operation of the equipment, especially for rock-breaking activities,
 - Piling works and machinery on-site; and
 - Wastewater and runoff discharge from site.

1 INTRODUCTION

Background

- 1.1. The Kai Tak Development (KTD) is located in the south-eastern part of Kowloon Peninsula, comprising the apron and runway areas of the former Kai Tak Airport and existing waterfront areas at To Kwa Wan, Ma Tau Kok, Kowloon Bay, Kwun Tong and Cha Kwo Ling. It covers a land area of about 328 hectares. Stage 5A Infrastructure at Former North Apron Area is one of the construction stages of KTD. It contains one Schedule 2 DP including new distributor roads serving the planned KTD. The general layout of the Project is shown in **Figure 1**.
- 1.2. An Environmental Permit (EP) No. EP-337/2009 was issued on 23 April 2009 for new distributor roads serving the planned KTD to Civil Engineering and Development Department as the Permit Holder.
- 1.3. A study of environmental impact assessment (EIA) was undertaken to consider the key issues of air quality, noise, water quality, waste, land contamination, cultural heritage and landscape and visual impact, and identify possible mitigation measures associated with the works. An EIA Report (Register No. AEIAR-130/2009) was approved by the Environmental Protection Department (EPD) on 4 April 2009.
- 1.4. Cinotech Consultants Limited (Cinotech) was commissioned by Civil Engineering and Development Department (CEDD) to undertake the role of the Environmental Team (ET) for the Contract No. KL/2015/02 – Stage 5A Infrastructure at Former North Apron Area. The construction work under KL/2015/02 comprises the construction of part of the Road D1 under the EP (EP-337/2009).
- 1.5. Cinotech Consultants Limited was commissioned by Civil Engineering and Development Department (CEDD) to undertake the Environmental Monitoring and Audit (EM&A) works for the Project. The commencement date of construction of Road D1 (part) under this Contract was on 16 January 2017.

Project Organizations

- 1.6. 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 Asia Co. Ltd (AECOM).
 - Environmental Team (ET) Cinotech Consultants Limited (Cinotech).
 - Independent Environmental Checker (IEC) Fugro Technical Services Limited (FTS).
 - Contractor Peako Wo Hing Joint Venture (PWHJV).

Table 1.1	Key Project C	Contacts			
Party	Role	Contact Person	Position	Phone No.	Fax No.
CEDD	Project Proponent	Mr. CHAN Wai Kit, Ricky	Senior Engineer	2116 3753	2116 0714
AECOM	Engineer's Representative	Mr. Vincent Lee	Senior Resident Engineer	2798 0771	2210 6110
Cinotech	Environmental	Mr. K.S Lee	Environmental Team Leader	2151 2091	3107 1388
Chioteen	Team	Ms. Betty Choi	Audit Team Leader	2151 2072	5107 1500
FTS	Independent Environmental Checker	Mr. Colin Yung	Independent Environmental Checker	3565 4114	2450 8032
PWHJV	Contractor	Mr. W.M. Wong	Site Agent	6386 3535	2398 8301

1.7. The key contacts of the Project are shown in **Table 1.1**.

Construction Activities undertaken during the Reporting Month

- 1.8. The site activities undertaken in the reporting month included:
 - Lift installation work of LT1 at SKLR Playground
 - Excavating and laying cable ducts for E&M works at SKLR Playground
 - Carry out water proofing works and backfilling works at TTA Stage 3 & 4 of PERE - Install bulkhead lighting works at Subway
- 1.9. The construction programme for the Project is shown in **Appendix N**.
- 1.10. The construction programme showing the inter-relationship with environmental protection/mitigation measures are presented in **Table 1.2**.

Table 1.2	Construction Programme Showing the Inter-Relationship with
	Environmental Protection/Mitigation Measures

Construction Works	Major Environmental Impact	Control Measures
Refer to Section 1.8	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; Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall; Provide sufficient mitigation measures as recommended in Approved EIA Report/Lease requirement.

Summary of EM&A Requirements

- 1.11. The EM&A programme requires construction noise monitoring, air quality monitoring, landscape and visual monitoring and environmental site audit. 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 requirements and mitigation measures, as recommended in the EM&A Manual under the EP.
- 1.12. The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 6 of this report.
- 1.13. This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required monitoring parameters, namely air quality and noise levels and audit works for the Project during the reporting month.

2 AIR QUALITY

Monitoring Requirements

2.1. According to EM&A Manual under the EP, 1-hour and 24-hour TSP monitoring were conducted to monitor the air quality for this Project. For regular impact monitoring, a sampling frequency of at least once in every six days 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

- 2.2. 1-hour TSP impact dust monitoring was conducted at the air quality monitoring station, AM2 - Lee Kau Yan Memorial School and 24-hour TSP impact dust monitoring were conducted at the air quality monitoring station, AM2(A) - Ng Wah Catholic Secondary School in the reporting month. No Action/Limit Level exceedance was recorded.
- 2.3. **Table 2.1** describes the air quality monitoring locations, which are also depicted in **Figure 2**.

Monitoring Stations	Locations	Location of Measurement
AM2 (1-hour TSP)	Lee Kau Yan Memorial School	Rooftop (about 8/F) Area
AM2(A) (24-hour TSP)	Ng Wah Catholic Secondary School	Rooftop (about 8/F) Area

 Table 2.1
 Locations for Air Quality Monitoring

Monitoring Equipment

2.4. **Table 2.2** summarizes the equipment used in the impact air monitoring programme. Copies of calibration certificates are attached in **Appendix B**.

7

Equipment	Model and Make	Quantity
Calibrator	• TISCH TE-5025A	1
1-hour TSP Dust Meter	• Sibata Scientific Technology LD-5R	1
HVS Sampler	• TE-5170 c/w of TSP sampling inlet	1
Wind Anemometer	• Davis Instruments 6152	1

Monitoring Parameters, Frequency and Duration

2.5. **Table 2.3** summarizes the monitoring parameters and frequencies of impact dust monitoring for the whole construction period. The air quality monitoring schedule for the reporting month is shown in **Appendix D**.

Table 2.5 Impact Dust Monitoring Laranceers, Frequency and Duration	Table 2.3	Impact Dust Monitoring Parameters, Frequency and Dura	ation
---	-----------	---	-------

Parameters	Frequency
1-hr TSP	Three times / 6 days
24-hr TSP	Once / 6 days

Monitoring Methodology and QA/QC Procedure

1-hour TSP Monitoring

Measuring Procedures

2.6. The measuring procedures of the 1-hour dust meters were in accordance with the Manufacturer's Instruction Manual as follows:

(Equipment: Sibata Scientific Technology; Model no. LD-3B, LD-5R)

- 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

2.7. The following maintenance/calibration was required for the direct dust meters:

Check the meter at a 3-month interval and calibrate the meter at a 1-year interval throughout all stages of the air quality monitoring.

24-hour TSP Monitoring

Instrumentation

2.8. High volume (HVS) samplers (Model TE-5170), completed with appropriate sampling inlets, were employed for 24-hour TSP monitoring. The sampler was 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). Moreover, the HVS also met all the requirements in section 2.5 of the updated EM&A Manual.

Operating/Analytical Procedures

- 2.9. Operating/analytical procedures for the operation of HVS were as follows:
 - A horizontal platform was provided with appropriate support to secure the samplers against gusty wind.
 - No two samplers were placed less than 2 meters apart.
 - The distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protrudes above the sampler.
 - A minimum of 2 meters of separation from walls, parapets and penthouses was required for rooftop samples.
 - A minimum of 2 meters separation from any supporting structure, measured horizontally was required.
 - No furnaces or incineration flues were nearby.
 - Airflow around the sampler was unrestricted.
 - The sampler was more than 20 meters from the drip line.
 - Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring.
- 2.10. Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 1.1 m3/min. and 1.4 m3/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.

- 2.11. For TSP sampling, fiberglass filters have a collection efficiency of > 99% for particles of 0.3μm diameter were used.
- 2.12. 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.
- 2.13. The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- 2.14. 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.
- 2.15. The shelter lid was closed and secured with the aluminium strip.
- 2.16. 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).
- 2.17. After sampling, the filter was removed and sent to the HOKLAS laboratory (High Precision Chemical Testing Ltd.) for weighing. The elapsed time was also recorded.
- 2.18. 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 \pm 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

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

Results and Observations

- 2.20. All 1-hour and 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 2.21. The weather information for the reporting month is summarized in Appendix C.
- 2.22. The monitoring data and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendices E and F** respectively.
- 2.23. The summary of exceedance record in reporting month is shown in **Appendix H**. No exceedance was recorded for the air quality monitoring.
- 2.24. According to our field observations during the monitoring, the major dust source identified at the two designated air quality monitoring stations are road traffic dust, exposed site area and open stockpiles, excavation works and site vehicle movements.
- 2.25. The summary of 1-hour and 24-hour TSP air quality monitoring results during the reporting month are shown in **Appendix E** and **Appendix F** respectively.

3 NOISE

Monitoring Requirements

3.1. According to EM&A Manuals under the EP, construction noise monitoring was conducted to monitor the construction noise arising from the construction activities within KTD. 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

3.2. Three designated monitoring stations were selected for noise monitoring programme. Noise monitoring was conducted at three designated monitoring stations (M3(A), M4, and M5(C)). **Figure 3** shows the locations of these stations.

Monitoring Stations	Locations	Location of Measurement	
	The Pridge connecting The	In the middle of the foot	
M3(A)	The Bridge connecting The Latitide	bridge connecting The	
	Latitude	Latitude	
M4	Lee Kau Yan Memorial School	Rooftop (about 7/F) Area	
		Ground in front of the	
		building entrance facing	
		Prince Edward	
		Road East (noise monitoring	
M5(C)	Mercy Grace's Home	is not allowed on the rooftop	
		from 27 February 2020, due	
		to the coronavirus	
		countermeasure in Mercy	
		Grace's Home)	

Table 3.1Noise Monitoring Stations

Monitoring Equipment

3.3. **Table 3.2** summarizes the noise monitoring equipment. Copies of calibration certificates are provided in **Appendix B**.

Table 3.2Noise Monitoring Equipment

Equipment	Model and Make	Qty.
Integrating Sound Level Meter	• BSW Atech BSWA 308	3
Calibrator	SOUNDTEK ST-120	2

Monitoring Parameters, Frequency and Duration

3.4. **Table 3.3** summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix D**.

Table 3.3	Noise Monitoring Parameters, Frequency and Duration

Monitoring Stations	Parameter	Period	Frequency	Measurement
M3(A)	L ₁₀ (30 min.) dB(A)	0700-1900 hrs on	Once per	
M4 M5(C)	L ₉₀ (30 min.) dB(A) L _{eq} (30 min.) dB(A)	normal weekdays	week	Façade

Monitoring Methodology and QA/QC Procedures

- The Sound Level Meter was set on a tripod at a height of 1.2 m above the ground.
- 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 were set as follows:

_	frequency weighting	: A
---	---------------------	-----

- time weighting : Fast
- time measurement : 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 was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after recalibration or repair of the equipment.
- The wind speed was frequently checked with the portable wind meter.
- At the end of the monitoring period, the L_{eq}, L₉₀ and L₁₀ were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Noise measurement was paused temporarily during periods of high intrusive noise if possible and observation was recorded when intrusive noise was not avoided.
- Noise monitoring was 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.

Maintenance and Calibration

- 3.5. The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 3.6. The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 3.7. Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be 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

- 3.8. All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. The summary of exceedance record in reporting month is shown in **Appendix H**.
- 3.9. The baseline noise level and the Noise Limit Level at each designated noise monitoring station are presented in **Table 3.5**.
- 3.10. Noise monitoring results and graphical presentations are shown in Appendix G.
- 3.11. The major noise source identified at the designated noise monitoring stations are shown in **Table 3.4**.

Monitoring Stations Locations		Major Noise Source
M3(A)	The Bridge connecting The Latitude	Traffic Noise Site vehicle movement
M4	Lee Kau Yan Memorial School	Traffic Noise Site vehicle movement Excavation works Piling works Daily school activities
M5(C)	Mercy Grace's Home	Traffic Noise Site vehicle movement

Table 3.4	Major Noise Source identified	l at the Designated Noise	e Monitoring Stations
-----------	-------------------------------	---------------------------	-----------------------

Table 3.5 Baseline Noise Level and Noise Limit Level for Monitoring Stations				
Station Baseline Noise Level, dB (A)		Noise Limit Level, dB (A)		
	N/A ⁽¹⁾	75		
M3(A)	(at 0700 – 1900 hrs on normal	(at 0700 – 1900 hrs on		
	weekdays)	normal weekdays)		
	76.7 ⁽²⁾	70		
M4	(at 0700 – 1900 hrs on normal	(at 0700 – 1900 hrs on		
	weekdays)	normal weekdays)		
	N/A ⁽¹⁾	75		
M5(C)	(at 0700 – 1900 hrs on normal	(at 0700 – 1900 hrs on		
	weekdays)	normal weekdays)		

Table 3.5Baseline Noise Level and Noise Limit Level for Monitoring Stations

(*) Noise Limit Level is 65 dB(A) during school examination periods.

Note (1): The background Noise Level was recorded during the Lunch Hour of Construction Site

(i.e. 12:00-13:00) and to be used as the referencing value for compliance checking for Noise Action and Limit Level.

Note (2): The noise level due to the construction work (CNL) was calculated by the following formula:

 $CNL = 10 \log (10^{MNL/10} - 10^{BNL/10})$

Remarks: MNL = Measured Noise Level, BNL = Baseline Noise Level

4 COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS

4.1. The EM&A data was compared with the EIA predictions as summarized in **Tables 4.1** to **4.3**.

	Predicted 1-hr TSP conc.		Measured 1-hr TSP conc.		
Station	Scenario1 (Mid 2009 to Mid-	2009 to Mid- 2013 to Late (Apri		rting Month 2022), μg/m ³	
	2013), μg/m ³	2016), μg/m ³	Average	Range	
AM2 – Lee Kau Yan Memorial School	290	312	57.9	21.0-130.2	

Table 4.1 Comparison of 1-hr TSP data with EIA predictions

Table 4.2 Comparison of 24-hr TSP data with EIA predictions

	Predicted 24-hr TSP conc.		Measured 24-hr TSP conc.	
Station	Scenario1 (Mid 2009 to Mid-2013), µg/m ³	Scenario2 (Mid 2013 to	Reporting Month (April 2022), μg/m ³	
		Late 2016), µg/m ³	Average	Range
AM2(A) – Ng Wah				
Catholic Secondary	145	169	63.9	33.2 - 107.8
School				

Table 4.3 Comparison of Noise Monitoring Data with EIA predictions

Stations	Predicted Mitigated Construction Noise Levels during Normal Working Hour (L _{eq (30min)} dB(A))	Reporting Month (April 2022), L _{eq (30min)} dB(A)
M3(A) – The Bridge connecting The Latitude	Not predicted in EIA Report	71.1 - 73.6 (2)
M4 – Lee Kau Yan Memorial School	47 – 74	72.2 - 76.5 (1)
M5(C) – Mercy Grace's Home	Not predicted in EIA Report	72.9 - 77.6 ⁽²⁾

Remarks:

(1) Since the baseline noise level was higher than those recorded during the construction period, the recorded noise levels were considered non-valid exceedance of Noise Limit Level.

(2) Since the background noise level was higher than those recorded during the construction period, the recorded noise levels were considered non-valid exceedance of Noise Limit Level.

- 4.2. The average 1-hour TSP concentrations at AM2 in the reporting month were below the prediction in the approved Environmental Impact Assessment (EIA) Report.
- 4.3. The average 24-hour TSP concentrations at AM2(A) in the reporting month were below the prediction in the approved EIA Report.
- 4.4. The noise monitoring results in the reporting month from M4 were slightly higher than the range of the predicted mitigated constriction noise levels in the EIA Report.
- 4.5. Construction noise levels at M3(A) and M5(C) were not predicted in EIA Report.

5 LANDSCAPE AND VISUAL

Monitoring Requirements

5.1. According to EM&A Manual of the Kai Tak Development EIA Study, ET shall monitor and audit the contractor's operation during the construction period on a weekly basis, and to report on the contractor's compliance.

Results and Observations

- 5.2. Site audits were conducted on a weekly basis to monitor the timely implementation of landscape and visual mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix I**.
- 5.3. No non-compliance of the landscape and visual impact was recorded in the reporting month.
- 5.4. Should non-compliance of the landscape and visual impact occur, action in accordance with the action plan presented in **Appendix J** shall be performed.

6 ENVIRONMENTAL INSPECTION

Site Inspections

- 6.1. Site inspections 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 inspections are attached in **Appendix I**.
- 6.2. Site inspections were conducted on 4, 13, 19 & 25 April 2022 in the reporting month. A joint site inspection with the representative of IEC, ER, the Contractor and the ET was conducted on 13 April 2022. The details of the observations during site inspection are summarized in **Table 6.2**.

Review of Environmental Monitoring Procedures

6.3. The monitoring works conducted by the monitoring team were inspected regularly. The following observations have been recorded for the monitoring works:

Air Quality Monitoring

- The monitoring team recorded all observations around the monitoring stations within and outside the construction site.
- The monitoring team recorded the temperature and weather conditions on the monitoring days.

Noise Monitoring

- The monitoring team recorded all observations around the monitoring stations, which might affect the monitoring result.
- Major noise sources were identified and recorded. Other intrusive noise attributing to the result was trimmed off by pausing the monitoring temporarily.

Status of Environmental Licensing and Permitting

6.4. All permits/licenses obtained for the Project are summarized in **Table 6.1**.

Table 6.1 Summary of Environmental Licensing and Permit Status						
	Valid Period		<i>.</i>			
Permit No.	From	То	Status			
Environmental Permit (EP)						
EP-337/2009	23 Apr 2009	N/A	Valid			
Effluent Discharge License		•				
WT00027495-2017	28 Mar 2017	31 Mar 2022	Expired			
Billing Account for Construction Waste Disposal						
A/C# 7026164	20 Oct 2016	N/A	Valid			
Registration of Chemical Waste Producer						
WPN5213-229-P3271-01	14 Aug 2017	N/A	Valid			
Construction Noise Permit (CNP)						
GW-RE0915-19	8 Nov 2019	4 May 2020	Expired			
GW-RE0984-19	15 Dec 2019	24 Feb 2020	Expired			
GW-RE0083-20	1 Mar 2020	1 June 2020	Expired			
GW-RE0266-20	2 May 2020	31 Jul 2020	Expired			
GW-RE0779-21	30 Jul 2021	30 Nov 2021	Expired			
GW-RE0858-21	31 Jul 2021	30 Aug 2021	Expired			

Status of Waste Management

6.5. The amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix M**.

Implementation Status of Environmental Mitigation Measures

6.6. During site inspections in the reporting month, no non-conformance was identified. ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in Table 6.2.

Table 6.2Observations and Recommendations of Site Inspections				
Parameters	Date	Observations and Recommendations	Follow-up/Rectification	
Water Quality	N/A	No environmental deficiency was identified in the reporting period.	N/A	
Air Quality	N/A	No environmental deficiency was identified in the reporting period.	N/A	
Noise	N/A	No environmental deficiency was identified in the reporting period.	N/A	
Waste/ Chemical Management	N/A	No environmental deficiency was identified in the reporting period.	N/A	
Landscape and Visual	N/A	No environmental deficiency was identified in the reporting period.	N/A	
Permits/ Licenses	N/A	No environmental deficiency was identified in the reporting period.	N/A	

- - ---

Summary of Mitigation Measures Implemented

6.7. An updated summary of the EMIS is provided in Appendix K.

Implementation Status of Event Action Plans

6.8. The Event Action Plans for air quality, noise and landscape and visual are presented in Appendix J.

1-hr TSP Monitoring

6.9. No Action/Limit Level exceedance was recorded in the reporting month.

24-hr TSP Monitoring

6.10 No Action/Limit Level exceedance was recorded in the reporting month.

Construction Noise

6.11. No Action/Limit Level exceedance was recorded in the reporting month.

Landscape and visual

6.12. No non-compliance was recorded in the reporting month.

Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution

6.13. The summaries of environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in **Appendix L**.

7 FUTURE KEY ISSUES

- 7.1. Major site activities undertaken for the coming two months include:
 - Lift installation work of LT1 at SKLR Playground
 - Electrical wiring along subway
 - E&M works for subway
 - Install steel staircase cover of ST1 at SKLR Playground
 - Carry out finishing works at SW6, subway and staircase ST1
 - V.E. panel installation along subway SW6
 - E&M work for bulkhead lighting inside subway SW6
 - Pump house platform installation works with removal of ELS
 - Backfilling works with removal of ELS at TTA Stage 3 & 4 of PERE
 - Modify supports of the traffic desks at PERE
 - Adding an additional concrete surround to the existing 1500mm pipe
- 7.2. Key environmental issues in the coming month include:
 - Wastewater and runoff discharge from site;
 - Regular removal of silt, mud and sand along u-channels and sedimentation tanks;
 - Review and implementation of temporary drainage system for the surface runoff;
 - Noise from operation of the equipment, especially for rock-breaking activities, piling works and machinery on-site;
 - Dust generation from stockpiles of dusty materials, exposed site area, excavation works and rock breaking activities;
 - Water spraying for dust generating activity and on haul road;
 - Proper storage of construction materials on site;
 - Storage of chemicals/fuel and chemical waste/waste oil on site; and
 - Accumulation of general and construction waste on site.

7.3. The tentative major site activities is mentioned in Section 7.1 of this report. The impact prediction and control measures for the coming two months are summarized as follows:

Air quality impact (dust)

- Frequent watering of haul road and unpaved/exposed areas;
- Frequent watering or covering stockpiles with tarpaulin or similar means; and
- Watering of any earth moving activities.

Water quality impact (surface runoff)

- Diversion of the collected effluent to de-silting facilities for treatment prior to discharge to public storm water drains;
- Provision of adequate de-silting facilities for treating surface run-off and other collected effluents prior to discharge;
- Provision of perimeter protection such as sealing of hoarding footings to avoid runoff from entering the existing storm water drainage system via public road; and
- Provision of measures to prevent discharge into the stream.

Noise Impact

- Scheduling of noisy construction activities if necessary to avoid persistent noisy operation;
- Controlling the number of plants use on site;
- Regular maintenance of machines; and
- Use of acoustic barriers if necessary.

Monitoring Schedule for Next Month

7.4. The tentative environmental monitoring schedules for next month are shown in **Appendix D**.

8 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

8.1. Environmental monitoring works were performed in the reporting month and all monitoring results were checked and reviewed.

<u>1-hr TSP Monitoring</u>

8.2. All 1-hr TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

24-hr TSP Monitoring

8.3. All 24-hr TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Construction Noise Monitoring

8.4. All construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Landscape and visual

8.5. No non-compliance was recorded in the reporting month.

Complaint and Prosecution

8.6. No environmental complaint and environmental prosecution was received in the reporting month.

Recommendations

8.7. According to the environmental audit performed in the reporting month, the following recommendations were made:

Water Quality

• The public drainage gully within the construction site shall be bounded by sand bags.

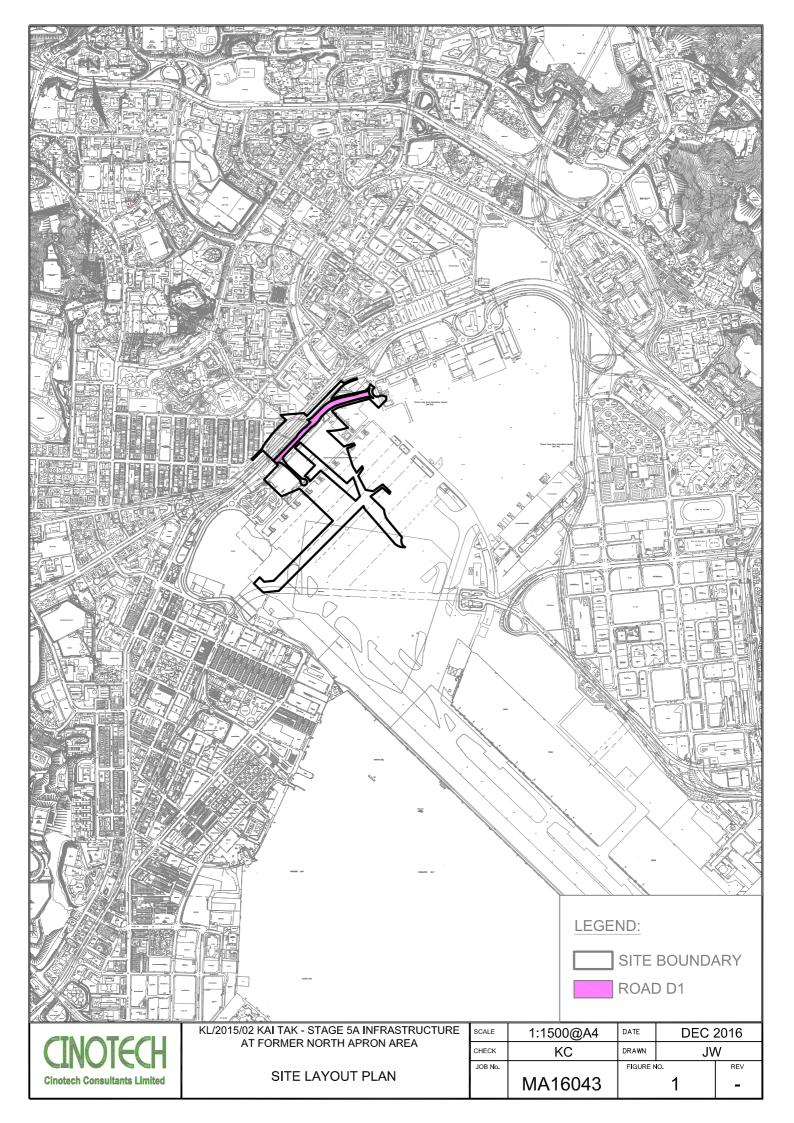
Air Quality

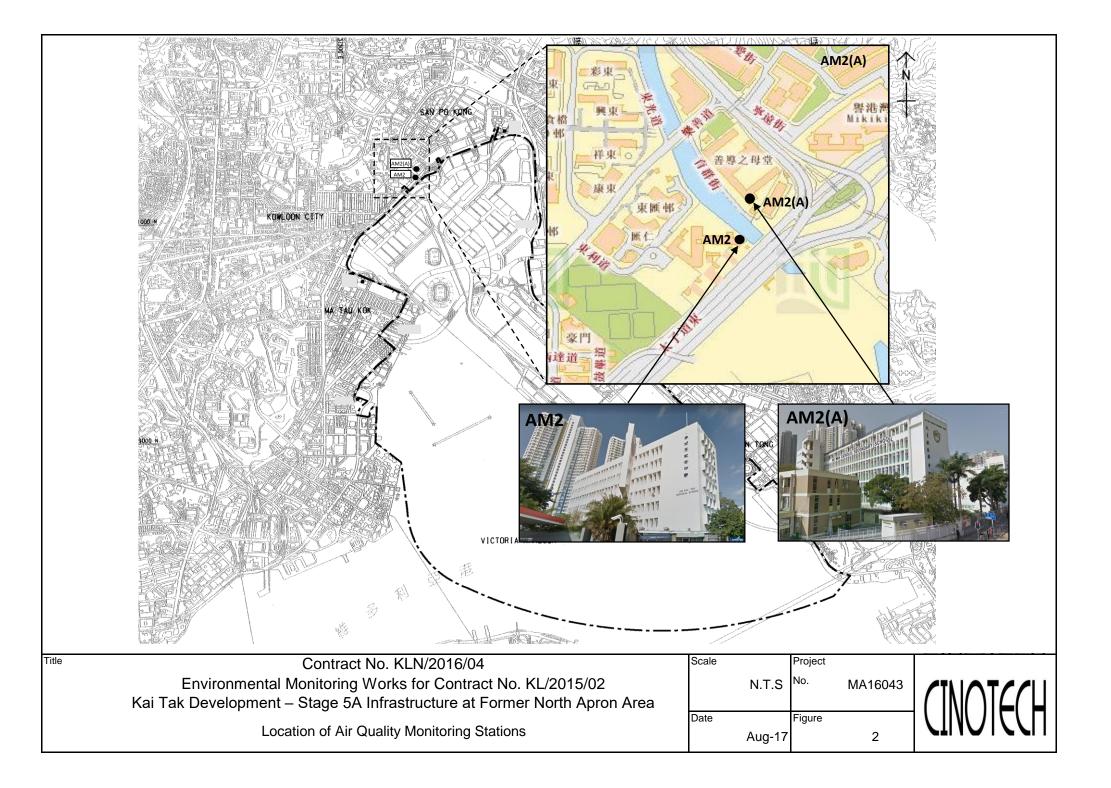
• The Contractor should cover the dusty material by dust screen.

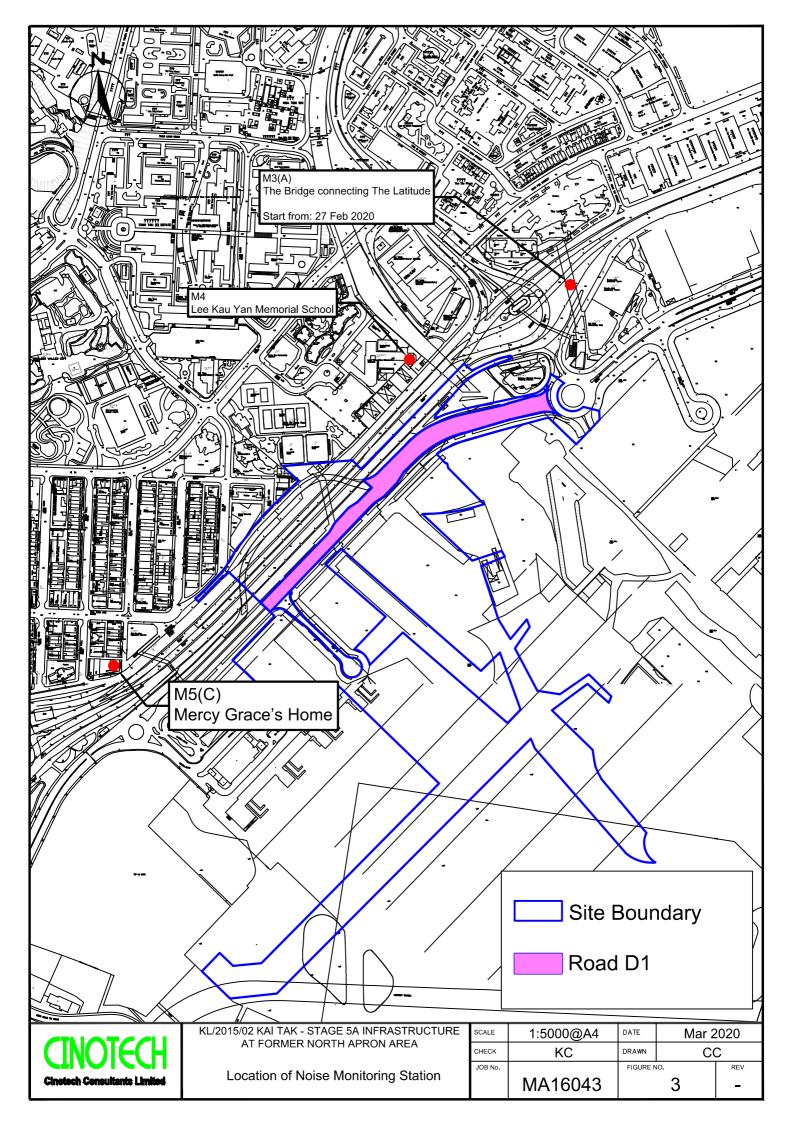
Waste/Chemical Management

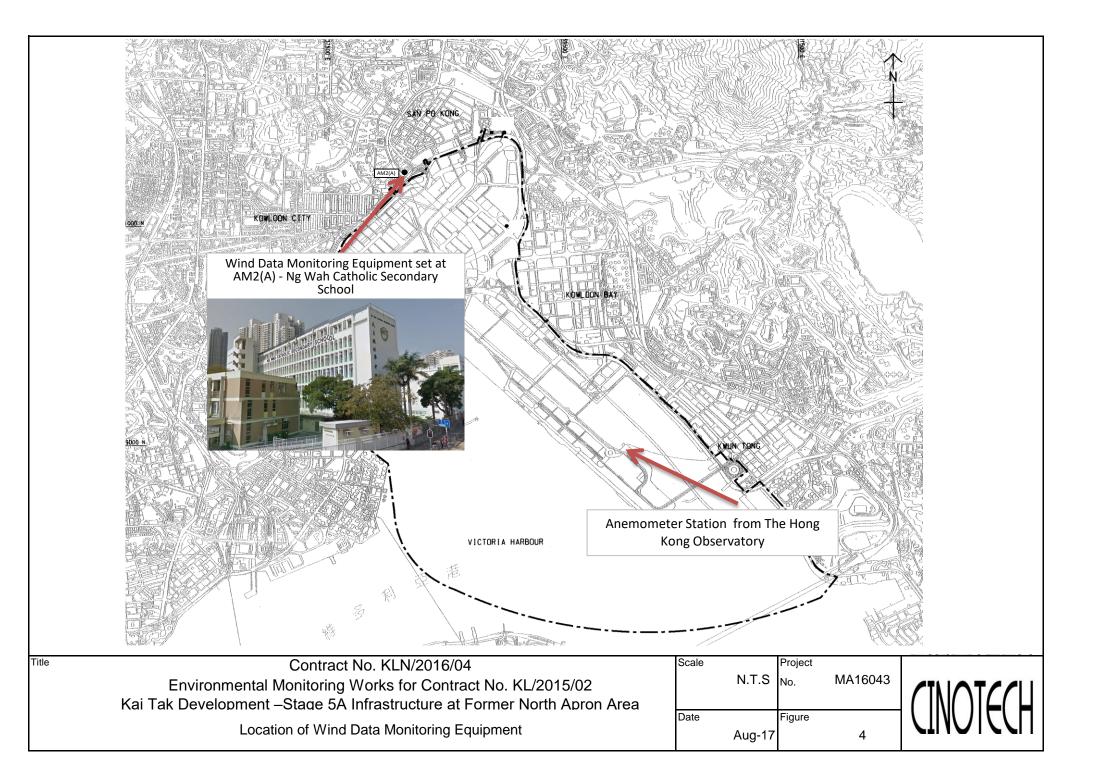
- The Contractor should store the construction/chemical material at the proper place.
- The Contractor was reminded to remove accumulated waste from the site.

FIGURES









APPENDIX A ACTION AND LIMIT LEVELS FOR AIR QUALITY AND NOISE

Appendix A - Action and Limit Levels

Location	Action Level, μg/m ³	Limit Level, μg/m ³
AM2	346	500

Table A-1Action and Limit Levels for 1-Hour TSP

Table A-2Action and Limit Levels for 24-Hour TSP

Location	Action Level, µg/m ³	Limit Level, µg/m ³
AM2(A)	157	260

Table A-3 Action and Limit Levels for Construction Noise

Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A) 70dB(A)/65dB(A)*

Remarks: If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed. *70dB(A) and 65dB(A) for schools during normal teaching periods and school examination periods, respectively.

APPENDIX B-1 COPIES OF CALIBRATION CERTIFCATES (AIR)

CINOTECH CONSULTANTS LIMITED



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-Mar-22					
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ration Record	29-May-22		
Model No.:	LD-5R						
Serial No.:	972780						
Equipment No.:	SA-01-09	Sensitivity	0.001 mg/m3	-			
High Volume Sa	ampler No.: A-01-03	Before Sensitiv	vity Adjustment	739 CPM			
Tisch Calibratio	n Orifice No.: <u>3864</u>	After Sensitivit	ty Adjustment	739 CPM			
	Ca	libration of 1 hi	r TSP				
Calibration	Laser Dust Monitor	•		HVS			
Point	Mass Concentration (µg/	m3)	Mass concentration ($\mu g/m^3$)				
	X-axis		Y-axis				
1	69.0			152.0			
2	61.0			133.0			
3	53.0		109.0				
Average	61.0		131.3				
Slope, mw =			ept, bw =	-32.6042	2		
Correlation co	oefficient* = 0.9978						
		t Correlation Fa	actor				
Particaulate Con	centration by High Volume Sampler ((µg/m³)	131.3				
Particaulate Concentration by Dust Meter ($\mu g/m^3$)			61.0				

Set Correlation Factor, SCF SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)]

In-house method in according to the instruction manual:

Measureing time, (min)

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:

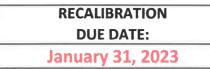
Technical Officer (Wong Shing Kwai)

Approved by: Project Manager (Henry Leung)

60.0

2.2





Certificate of Calibration

			Calibration	Certificatio	on Informat	ion		
Cal. Date:	January 31	, 2022	Rootsi	meter S/N:	438320	Ta:	294	°K
Operator:	Jim Tisch					Pa:	752.6	mm Hg
Calibration	Model #:	TE-5025A	Calik	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			b=	-0.01514	
		L=	0.999			ľ=	0.99993	I
				Calculatio				
)/Pstd)(Tstd/Ta	a)	Va= ΔVol((Pa-ΔP)/Pa)			
	Qstd=	Vstd/∆Time				Va/∆Time		
			For subsequ	ent flow ra	te calculatio	ns:		
	Qstd= $1/m \left(\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right) \left(\frac{Tstd}{Ta} \right)} \right)$)-ь)	Qa=	1/m ((√∆H	l(Та/Ра))-b)	
	Standard	Conditions						
Tstd:						RECA	LIBRATION	
Pstd: 760 mm Hg					LIS EDA room	mmonde	nnual recalibratio	on ner 1000
Key ΔH: calibrator manometer reading (in H2O)			n H2O)				Regulations Part !	
		eter reading (i					-	
		perature (°K)			Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in			
		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

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA16043/13/0029

Project No.	AM2(A) - Ng V	AM2(A) - Ng Wah Catholic Secondary School				
Date:	5-M	1ar-22	Next Due Date:	5-May-22	Operator:	SK
Equipment No.:	.:		Model No.:	TE-5170	Serial No.	1352
			Ambient Condit	ion		
Temperature, Ta (K) 293.6			Pressure, Pa (mml	Hg)	760	

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

Calibration of TSP Sampler					
Calibration		Orfice			HVS
Point	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	DW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis
1	12.8	3.60	61.27	10.4	3.25
2	10.9	3.33	56.57	8.4	2.92
3	8.0	2.84	48.41	5.8	2.43
4	5.4	2.34	39.94	3.4	1.86
5	3.2	1.80	30.84	1.8	1.35
Slope , mw = Correlation	coefficient* =		Intercept, bw ⁼ -	-0.603	0
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:					
Conducted by:	Wong Shi	ng Kwai Signature:	K	<u>Д.</u>	Date: 5-Mar-22
Checked by:	Henry I	Leung Signature:	- lem	J Xron J	Date: 5-Mar-22



Certificate of Calibration - Wind Monitoring Station

Description:	Ng Wah Catholic Seconday School - Weather Stations
Manufacturer:	Davis Instruments
Model No.:	Davis 6152, Vantage Pro2
Serial No.:	<u>BC180522050</u>
Equipment No.:	<u>SA-03-03</u>
Date of Calibration	<u>8-Oct-2021</u>
Next Due Date	<u>8-Apr-2022</u>

1. Performance check of Wind Speed

Wind Sp	beed, m/s	Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V1)	D = V1 - V2
0.0	0.0	0.0
1.5	1.5	0.0
2.0	2.1	-0.1
3.3	3.4	-0.1

2. Performance check of Wind Direction

Wind Direction (°)		Difference D (°)
Wind Direction Reading (V1)	Marine Compass Value (V1)	$\mathbf{D} = \mathbf{W1} - \mathbf{W2}$
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

CIN@TECH 🤳

Certificate of Calibration - Wind Monitoring Station

Description:	Ng Wah Catholic Seconday School - Weather Stations
Manufacturer:	Davis Instruments
Model No.:	Davis 6152, Vantage Pro2
Serial No.:	<u>BC180522050</u>
Equipment No.:	<u>SA-03-03</u>
Date of Calibration	<u>8-Apr-2022</u>
Next Due Date	<u>8-Oct-2022</u>

1. Performance check of Wind Speed

Wind Speed, m/s		Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V1)	D = V1 - V2
0.0	0.0	0.0
1.5	1.5	0.0
2.0	2.0	0.0
3.3	3.4	-0.1

2. Performance check of Wind Direction

Wind Di	rection (°)	Difference D (°)
Wind Direction Reading (V1) Marine Compass Value (V1)		$\mathbf{D} = \mathbf{W1} - \mathbf{W2}$
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

Calibrated by: ______ Approved by: _______ Henry Leung

1. Performance check of anemometer

Air Velocity, 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 Direction (°)		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	

APPENDIX B-2 COPIES OF CALIBRATION CERTIFCATES (NOISE)

Report No.

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

: 00152



Issue Date : 19 Nov 2021

: HP00034 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-12-01 Manufacturer: : BSWA Technology Other information : Model No. **BSWA 308** Serial No. 570183 Microphone No. 570605 Data Racaivad 10 Nov 2021

Date Received	•	10 NOV 2021
Test Period	:	10 Nov 2021 to 17 Nov 2021
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

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

:

:



Issue Date : 19 Nov 2021

Report No.:00152Application No.:HP00034

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	114.0	0.0	± 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 -

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



Issue Date : 04 Nov 2021

Report No. : 00145 Application No. : HP00029

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-12-03 Manufacturer: : BSWA Technology
 Other information : Model No.

:	Model No.	BSWA 308
	Serial No.	570188
	Microphone No.	570608

Date Received	:	26 Oct 2021
Test Period	:	26 Oct 2021 to 02 Nov 2021
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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Report No. : 00145 Application No. : HP00029

Issue Date : 04 Nov 2021

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	114.0	0.0	± 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

: 00149



Issue Date : 16 Nov 2021

: HP00031 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-12-04 Manufacturer: : BSWA Technology Other information : Model No. **BSWA 308** Serial No. 580238 Microphone No. 590073 Data Racaivad 05 Nov 2021

Date Received	:	US NOV 2021
Test Period	:	08 Nov 2021 to 12 Nov 2021
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

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 : 16 Nov 2021

Report No.:00149Application No.:HP00031

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	93.7	-0.3	± 1.5
114.0	114.0	0.0	± 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.

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: 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 -

Report No.

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

: 00151



Issue Date : 16 Nov 2021 Application No. : HP00033 **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-13-02 Manufacturer: : SOUNDTEK Other information : Model No. ST-120 Serial No. 181001636 : 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

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 : 16 Nov 2021

Report No.:00151Application No.:HP00033

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.	570188
Microphone No.	570608
Equipment No.	N-12-03

Test Result

[Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
	94.0	94.0	0.0	± 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 -

APPENDIX C WEATHER INFORMATION

		April 2022		
Date	Mean Pressure (hPa)	Air Temperature	Mean Relative Humidity (%)	Precipitation (mm)
		Mean (°C)		
1-Apr-22	1020.5	19.0	83	0.5
2-Apr-22	1023.2	15.0	76	1.3
3-Apr-22	1022.1	18.7	54	0
4-Apr-22	1022.2	20.1	53	0
5-Apr-22	1020.0	21.3	64	0
6-Apr-22	1017.6	22.3	70	0
7-Apr-22	1016.8	22.8	68	0
8-Apr-22	1015.7	23.6	50	0
9-Apr-22	1013.8	23.1	65	0
10-Apr-22	1012.4	23.8	67	0
11-Apr-22	1011.0	25.5	74	0
12-Apr-22	1008.9	25.7	77	0
13-Apr-22	1006.8	25.3	81	Trace
14-Apr-22	1008.4	25.5	69	0
15-Apr-22	1012.1	24.3	69	Trace
16-Apr-22	1013.7	21.8	73	Trace
17-Apr-22	1015.6	21.4	72	0.4
18-Apr-22	1016.7	21.7	76	Trace
19-Apr-22	1017.3	20.1	83	0.8
20-Apr-22	1015.4	21.9	75	0
21-Apr-22	1013.3	23.9	78	0
22-Apr-22	1012.3	24.8	84	0
23-Apr-22	1010.9	26.4	81	Trace
24-Apr-22	1009.3	27.2	79	0
25-Apr-22	1008.6	27.9	79	0
26-Apr-22	1008.3	27.7	80	0
27-Apr-22	1009.4	28.4	78	0
28-Apr-22	1010.8	28.4	79	0
29-Apr-22	1011.0	28.2	79	0
30-Apr-22	1012.3	25.4	85	0.5

April 2022

April 2022					
Table II: Wind Speed and Directions					
Date	Time	Wind Speed m/s	Direction		
1-Apr-22	0:00	0.4	NNW		
1-Apr-22 1-Apr-22	1:00	0.4	NNE		
1-Apr-22 1-Apr-22	2:00	0.4	NNE		
	3:00	0.4	NNW		
1-Apr-22 1-Apr-22	4:00	0.4	ENE		
1-Apr-22	5:00	0.0	NNW		
1-Apr-22	6:00	0.4	NE		
1-Apr-22 1-Apr-22	7:00	0.4	NNE		
1-Apr-22	8:00	0.0	NE		
1-Apr-22	9:00	0.0	NE		
1-Apr-22	10:00	1.8	NE		
1-Apr-22	11:00	0.9	ENE		
	12:00	1.8	NE		
1-Apr-22 1-Apr-22	12:00	2.7	ENE		
1-Apr-22 1-Apr-22	13:00	3.1	NW		
1-Apr-22	15:00	1.8	ENE		
1-Apr-22	16:00	1.3	ENE		
1-Apr-22 1-Apr-22	17:00	1.5	SW		
1-Apr-22	17:00	1.8	NE		
1-Apr-22	19:00	1.3	SSW		
1-Apr-22 1-Apr-22	20:00	1.5	WSW		
1-Apr-22	20:00	0.9	SW		
	22:00	1.3	SSW		
1-Apr-22 1-Apr-22	22:00	1.3	SSW		
2-Apr-22	0:00	1.3	WNW		
2-Apr-22 2-Apr-22	1:00	1.3	SW		
2-Apr-22	2:00	1.8	SW		
2-Apr-22	3:00	0.9	NNW		
2-Apr-22 2-Apr-22	4:00	1.3	NNW		
2-Apr-22	5:00	0.9	NNW		
2-Apr-22	6:00	0.9	NNE		
2-Apr-22	7:00	0.9	NNE		
2-Apr-22	8:00	0.9	NNW		
2-Apr-22 2-Apr-22	9:00	0.4	ENE		
2-Apr-22 2-Apr-22	10:00	0.4	NNW		
2-Apr-22 2-Apr-22	11:00	0.0	NE		
2-Apr-22 2-Apr-22	12:00	0.4	NNE		
2-Apr-22	12:00	0.0	NE		
2-Apr-22	14:00	0.4	NE		
2-Apr-22	15:00	0.4	NE		
2-Apr-22	16:00	0.0	ENE		
2-Apr-22	17:00	0.0	NE		
2-Apr-22 2-Apr-22	18:00	0.4	ENE		
2-Apr-22 2-Apr-22	19:00	1.8	NW		
2-Apr-22 2-Apr-22	20:00	1.8	ENE		
2-Apr-22 2-Apr-22	20:00	1.3	E		
2-Apr-22 2-Apr-22	22:00	0.9	SW		
2-Apr-22 2-Apr-22	22:00	0.9	NE		
2-mpi-22	25.00	0.7	TAT?		

April 2022				
Table II: Wind Speed and Directions				
Date	Time	Wind Speed m/s	Direction	
3-Apr-22	0:00	0.9	SSW	
3-Apr-22	1:00	0.4	WSW	
3-Apr-22	2:00	0.9	SW	
3-Apr-22	3:00	0.4	SSW	
3-Apr-22	4:00	0.4	SSW	
3-Apr-22	5:00	0.4	WNW	
3-Apr-22	6:00	0.9	SW	
3-Apr-22	7:00	0.9	SW	
3-Apr-22	8:00	0.9	NNW	
3-Apr-22	9:00	1.3	NNW	
3-Apr-22	10:00	1.8	NNW	
3-Apr-22	11:00	2.7	NNW	
3-Apr-22	12:00	2.7	NNW	
3-Apr-22	13:00	1.8	NNW	
3-Apr-22	14:00	1.8	SE	
3-Apr-22	15:00	2.2	SE	
3-Apr-22	16:00	0.4	ESE	
3-Apr-22	17:00	0.4	ESE	
3-Apr-22	18:00	0.0	ESE	
3-Apr-22	19:00	0.4	SE	
3-Apr-22	20:00	0.0	ESE	
3-Apr-22	21:00	0.4	ESE	
3-Apr-22	22:00	0.4	ESE	
3-Apr-22	23:00	0.0	ESE	
4-Apr-22	0:00	0.0	ESE	
4-Apr-22	1:00	0.4	SE	
4-Apr-22	2:00	1.8	ESE	
4-Apr-22	3:00	0.4	ESE	
4-Apr-22	4:00	0.4	ESE	
4-Apr-22	5:00	0.4	ESE	
4-Apr-22	6:00	0.4	SE	
4-Apr-22	7:00	0.4	SE	
4-Apr-22	8:00	0.0	NNW	
4-Apr-22	9:00	0.9	NNW	
4-Apr-22	10:00	0.4	NNW	
4-Apr-22	11:00	0.4	WNW	
4-Apr-22	12:00	0.4	WNW	
4-Apr-22	13:00	0.9	SE	
4-Apr-22	14:00	0.9	ESE	
4-Apr-22	15:00	0.9	W	
4-Apr-22	16:00	0.9	SE	
4-Apr-22	17:00	1.3	WNW	
4-Apr-22	18:00	1.3	SE	
4-Apr-22	19:00	1.3	SE	
4-Apr-22	20:00	1.8	SSE	
4-Apr-22	21:00	1.3	E	
4-Apr-22	22:00	0.9	E	
4-Apr-22	23:00	0.4	NE	

April 2022						
Г	Table II: Wind Speed and Directions					
Date	Time	Wind Speed m/s	Direction			
5-Apr-22	0:00	0.4	NNE			
		0.4	NE			
5-Apr-22	1:00	0.4	NE			
5-Apr-22	2:00		NE			
5-Apr-22	3:00	0.0 0.4	ENE			
5-Apr-22	4:00 5:00	0.4	NE			
5-Apr-22 5-Apr-22		0.0	ENE			
5-Apr-22	6:00 7:00	0.4	NW			
5-Apr-22	8:00	0.0	ENE			
5-Apr-22	9:00	0.0	ENE			
5-Apr-22	10:00	0.4	SW			
5-Apr-22		1.8	NE			
5-Apr-22 5-Apr-22	11:00 12:00	2.2	SSW			
5-Apr-22	12:00	1.3	WSW			
5-Apr-22	13:00	1.3	SW			
5-Apr-22	15:00	1.8	SSW			
5-Apr-22	16:00	1.8	SSW			
5-Apr-22	17:00	1.3	WNW			
5-Apr-22	17:00	0.9	SW			
5-Apr-22	19:00	0.9	SW			
5-Apr-22	20:00	0.9	NW			
5-Apr-22	20:00	0.4	NNW			
5-Apr-22	22:00	0.9	NNW			
5-Apr-22	23:00	1.8	WNW			
6-Apr-22	0:00	1.3	WNW			
6-Apr-22	1:00	0.4	WNW			
6-Apr-22	2:00	0.4	WNW			
6-Apr-22	3:00	0.0	WNW			
6-Apr-22	4:00	0.4	SSW			
6-Apr-22	5:00	0.0	SSW			
6-Apr-22	6:00	0.4	WNW			
6-Apr-22	7:00	0.4	NNW			
6-Apr-22	8:00	0.0	NNW			
6-Apr-22	9:00	0.0	NNW			
6-Apr-22	10:00	0.4	WNW			
6-Apr-22	11:00	1.8	WNW			
6-Apr-22	12:00	0.4	NW			
6-Apr-22	13:00	0.4	NE			
6-Apr-22	14:00	0.9	NNE			
6-Apr-22	15:00	1.8	NE			
6-Apr-22	16:00	1.3	NE			
6-Apr-22	17:00	2.2	NE			
6-Apr-22	18:00	1.8	ENE			
6-Apr-22	19:00	1.8	NE			
6-Apr-22	20:00	1.3	ENE			
6-Apr-22	21:00	1.3	NW			
6-Apr-22	22:00	1.3	ENE			
6-Apr-22	23:00	0.9	E			
5 . ipi 22	_0.00	0.7	1 ²			

April 2022				
Table II: Wind Speed and Directions				
Date	Time	Wind Speed m/s	Direction	
7-Apr-22	0:00	2.2	SW	
7-Apr-22	1:00	1.3	NE	
7-Apr-22	2:00	1.3	SSW	
7-Apr-22	3:00	0.9	WSW	
7-Apr-22	4:00	2.2	SW	
7-Apr-22	5:00	1.3	SSW	
7-Apr-22	6:00	1.3	SSW	
7-Apr-22	7:00	1.8	WNW	
7-Apr-22	8:00	1.8	SW	
7-Apr-22	9:00	0.0	SW	
7-Apr-22	10:00	0.0	WSW	
7-Apr-22	11:00	0.0	WSW	
7-Apr-22	12:00	0.4	WNW	
7-Apr-22	13:00	0.9	WNW	
7-Apr-22	14:00	0.4	S	
7-Apr-22	15:00	0.4	ESE	
7-Apr-22	16:00	0.0	SE	
7-Apr-22	17:00	0.4	SSW	
7-Apr-22	18:00	0.0	WSW	
7-Apr-22	19:00	0.4	WSW	
7-Apr-22	20:00	0.4	W	
7-Apr-22	21:00	0.0	SSW	
7-Apr-22	22:00	0.0	SSW	
7-Apr-22	23:00	0.4	SSW	
8-Apr-22	0:00	1.8	SSW	
8-Apr-22	1:00	1.8	SSW	
8-Apr-22	2:00	0.9	SW	
8-Apr-22	3:00	1.3	SW	
8-Apr-22	4:00	0.9	SW	
8-Apr-22	5:00	0.4	NW	
8-Apr-22	6:00	1.3	NW	
8-Apr-22	7:00	1.3	SE	
8-Apr-22	8:00	1.3	SE	
8-Apr-22	9:00	0.4	SE	
8-Apr-22	10:00	0.4	SSE	
8-Apr-22	11:00	0.4	WNW	
8-Apr-22	12:00	0.0	WNW	
8-Apr-22	13:00	0.4	WNW	
8-Apr-22	14:00	0.0	WNW	
8-Apr-22	15:00	0.4	WNW	
8-Apr-22	16:00	0.4	WNW	
8-Apr-22	17:00	0.0	WNW	
8-Apr-22	18:00	0.0	WNW	
8-Apr-22	19:00	0.4	NE	
8-Apr-22	20:00	1.8	NNE	
8-Apr-22	21:00	0.9	NE	
8-Apr-22	22:00	0.4	NE	
8-Apr-22	23:00	0.4	NE	

April 2022					
Table II: Wind Speed and Directions					
Date	Time	Wind Speed m/s	Direction		
9-Apr-22	0:00	0.4	ENE		
9-Apr-22	1:00	0.4	NE		
9-Apr-22	2:00	0.4	ENE		
9-Apr-22	3:00	0.9	NW		
9-Apr-22	4:00	0.9	ENE		
9-Apr-22	5:00	1.3	Е		
9-Apr-22	6:00	1.8	SW		
9-Apr-22	7:00	1.8	NE		
9-Apr-22	8:00	1.3	SSW		
9-Apr-22	9:00	2.2	WSW		
9-Apr-22	10:00	4.0	SW		
9-Apr-22	11:00	2.7	SSW		
9-Apr-22	12:00	0.4	SSW		
9-Apr-22	13:00	0.4	WNW		
9-Apr-22	14:00	0.0	SW		
9-Apr-22	15:00	0.4	SW		
9-Apr-22	16:00	0.0	WSW		
9-Apr-22	17:00	0.4	WNW		
9-Apr-22	18:00	0.4	ENE		
9-Apr-22	19:00	0.0	E		
9-Apr-22	20:00	0.0	ENE		
9-Apr-22	21:00	0.4	ENE		
9-Apr-22	22:00	1.8	ENE		
9-Apr-22	23:00	1.3	ENE		
10-Apr-22	0:00	0.9	E		
10-Apr-22	1:00	0.9	ESE		
10-Apr-22	2:00	1.3	E		
10-Apr-22	3:00	1.8	ENE		
10-Apr-22	4:00	1.8	ESE		
10-Apr-22	5:00	1.3	ENE		
10-Apr-22	6:00	1.3	ESE		
10-Apr-22	7:00	1.8	E		
10-Apr-22	8:00	1.8	ENE		
10-Apr-22	9:00	1.8	ESE		
10-Apr-22	10:00	1.8	ENE		
10-Apr-22	11:00	1.3	SE		
10-Apr-22	12:00	0.4	ENE		
10-Apr-22	13:00	0.9	ENE		
10-Apr-22	14:00	0.9	ESE		
10-Apr-22	15:00	1.8	SE		
10-Apr-22	16:00	0.4	ENE		
10-Apr-22	17:00	0.9	SW		
10-Apr-22	18:00	0.9	ENE		
10-Apr-22	19:00	0.9	E		
10-Apr-22	20:00	1.8	SW		
10-Apr-22	21:00	0.9	ENE		
10-Apr-22	22:00	0.4	ENE		
10-Apr-22	23:00	0.0	SW		

April 2022					
Table II: Wind Speed and Directions					
Date	Time	Wind Speed m/s	Direction		
11-Apr-22	0:00	0.9	SW		
11-Apr-22	1:00	0.4	NE		
11-Apr-22	2:00	0.9	NNE		
11-Apr-22	3:00	0.4	NE		
11-Apr-22	4:00	0.4	NE		
11-Apr-22	5:00	0.0	NE		
11-Apr-22	6:00	0.4	ENE		
11-Apr-22	7:00	0.0	NE		
11-Apr-22	8:00	0.4	ENE		
11-Apr-22	9:00	0.4	NW		
11-Apr-22	10:00	0.0	ENE		
11-Apr-22	11:00	0.0	E		
11-Apr-22	12:00	0.4	SW		
11-Apr-22	13:00	1.8	NE		
11-Apr-22	14:00	1.3	SSW		
11-Apr-22	15:00	1.8	WSW		
11-Apr-22	16:00	2.2	SW		
11-Apr-22	17:00	2.2	SSW		
11-Apr-22	18:00	2.2	SSW		
11-Apr-22	19:00	0.9	WNW		
11-Apr-22	20:00	1.3	SW		
11-Apr-22	21:00	0.9	SW		
11-Apr-22	22:00	0.9	SW		
11-Apr-22	23:00	0.9	SW		
12-Apr-22	0:00	0.9	SW		
12-Apr-22	1:00	0.4	SW		
12-Apr-22	2:00	0.0	SSW		
12-Apr-22	3:00	0.9	SW		
12-Apr-22	4:00	0.9	SW		
12-Apr-22	5:00	1.3	SW		
12-Apr-22	6:00	1.3	SSW		
12-Apr-22	7:00	0.9	Е		
12-Apr-22	8:00	0.9	Е		
12-Apr-22	9:00	1.3	ENE		
12-Apr-22	10:00	1.8	ENE		
12-Apr-22	11:00	0.9	NNE		
12-Apr-22	12:00	1.8	ENE		
12-Apr-22	13:00	1.3	ENE		
12-Apr-22	14:00	1.3	ENE		
12-Apr-22	15:00	1.3	ENE		
12-Apr-22	16:00	1.3	WNW		
12-Apr-22	17:00	1.3	Е		
12-Apr-22	18:00	0.9	ENE		
12-Apr-22	19:00	0.9	Е		
12-Apr-22	20:00	1.8	Е		
12-Apr-22	21:00	1.8	Е		
12-Apr-22	22:00	1.3	NW		
12-Apr-22	23:00	0.9	W		

	April 2022					
Т	Table II: Wind Speed and Directions					
Date	Time	Wind Speed m/s	Direction			
13-Apr-22	0:00	0.4	W			
13-Apr-22	1:00	0.4	W			
13-Apr-22	2:00	1.8	NE			
13-Apr-22	3:00	1.3	NNE			
13-Apr-22	4:00	1.3	NE			
13-Apr-22	5:00	0.4	NE			
13-Apr-22	6:00	0.9	NE			
13-Apr-22	7:00	0.4	ENE			
13-Apr-22	8:00	0.4	NE			
13-Apr-22	9:00	0.4	ENE			
13-Apr-22	10:00	0.4	NW			
13-Apr-22	11:00	0.4	ENE			
13-Apr-22	12:00	0.4	Е			
13-Apr-22	13:00	0.4	SW			
13-Apr-22	14:00	0.4	NE			
13-Apr-22	15:00	0.4	SSW			
13-Apr-22	16:00	0.4	WSW			
13-Apr-22	17:00	0.4	SW			
13-Apr-22	18:00	0.4	SSW			
13-Apr-22	19:00	0.9	SSW			
13-Apr-22	20:00	1.3	WNW			
13-Apr-22	21:00	1.8	SW			
13-Apr-22	22:00	1.8	SW			
13-Apr-22	23:00	2.7	NW			
14-Apr-22	0:00	1.8	W			
14-Apr-22	1:00	1.3	W			
14-Apr-22	2:00	1.8	NW			
14-Apr-22	3:00	1.8	W			
14-Apr-22	4:00	1.3	W			
14-Apr-22	5:00	0.9	W			
14-Apr-22	6:00	0.9	WSW			
14-Apr-22	7:00	0.4	ESE			
14-Apr-22	8:00	0.4	W			
14-Apr-22	9:00	1.3	NE			
14-Apr-22	10:00	0.4	NW			
14-Apr-22	11:00	0.4	WNW			
14-Apr-22	12:00	0.4	W			
14-Apr-22	13:00	1.8	W			
14-Apr-22	14:00	0.9	NW			
14-Apr-22	15:00	1.3	WNW			
14-Apr-22	16:00	0.9	NE			
14-Apr-22	17:00	1.3	NNE			
14-Apr-22	18:00	1.3	NE			
14-Apr-22	19:00	0.9	NE			
14-Apr-22	20:00	0.9	NE			
14-Apr-22	21:00	0.4	ENE			
14-Apr-22	22:00	0.4	NE			
14-Apr-22	23:00	0.0	ENE			

April 2022					
Table	Table II: Wind Speed and Directions				
Date	Time	Wind Speed m/s	Direction		
15-Apr-22	0:00	0.4	NW		
15 Apr-22	1:00	0.0	ENE		
15-Apr-22	2:00	0.4	E		
15-Apr-22	3:00	0.4	SW		
15-Apr-22	4:00	0.0	NE		
15-Apr-22	5:00	0.0	SSW		
15-Apr-22	6:00	0.4	WSW		
15-Apr-22	7:00	1.8	SW		
15-Apr-22	8:00	1.8	SSW		
15-Apr-22	9:00	1.8	SSW		
15-Apr-22	10:00	0.4	WNW		
15-Apr-22	11:00	0.4	SW		
15-Apr-22	12:00	0.4	SW		
15-Apr-22	13:00	0.9	ESE		
15-Apr-22	14:00	0.4	ESE		
15-Apr-22	15:00	0.4	ESE		
15-Apr-22	16:00	0.4	SE		
15-Apr-22	17:00	0.4	ESE		
15-Apr-22	18:00	0.4	ESE		
15-Apr-22	19:00	0.4	ESE		
15-Apr-22	20:00	0.0	ESE		
15-Apr-22	21:00	0.9	SE		
15-Apr-22	22:00	0.9	WNW		
15-Apr-22	23:00	0.9	NNW		
16-Apr-22	0:00	1.3	WNW		
16-Apr-22	1:00	0.9	WNW		
16-Apr-22	2:00	2.2	NW		
16-Apr-22	3:00	1.3	NW		
16-Apr-22	4:00	1.3	NNW		
16-Apr-22	5:00	1.8	NNW		
16-Apr-22	6:00	1.8	WNW		
16-Apr-22	7:00	1.3	WNW		
16-Apr-22	8:00	0.9	NW		
16-Apr-22	9:00	1.3	WNW		
16-Apr-22	10:00	0.4	NNW		
16-Apr-22	11:00	1.3	NW		
16-Apr-22	12:00	0.9	NNW		
16-Apr-22	13:00	1.3	NNW		
16-Apr-22	14:00	1.8	NNW		
16-Apr-22	15:00	1.3	NNW		
16-Apr-22	16:00	0.9	WSW		
16-Apr-22	17:00	1.3	SSW		
16-Apr-22	18:00	0.9	S		
16-Apr-22	19:00	0.4	SSW		
16-Apr-22	20:00	0.4	SW		
16-Apr-22	21:00	0.4	WSW		
16-Apr-22	22:00	0.4	SW		
16-Apr-22	23:00	0.4	SW		

April 2022					
Г	Table II: Wind Speed and Directions				
Date	Time	Wind Speed m/s	Direction		
17-Apr-22	0:00	0.0	SW		
17-Apr-22	1:00	0.0	SSW		
17-Apr-22	2:00	0.4	ENE		
17-Apr-22	3:00	0.4	SW		
17-Apr-22	4:00	0.4	Е		
17-Apr-22	5:00	0.4	Е		
17-Apr-22	6:00	0.4	SSW		
17-Apr-22	7:00	0.9	SW		
17-Apr-22	8:00	0.9	NNE		
17-Apr-22	9:00	0.9	WSW		
17-Apr-22	10:00	0.4	Е		
17-Apr-22	11:00	0.9	Е		
17-Apr-22	12:00	0.9	SE		
17-Apr-22	13:00	0.9	SSW		
17-Apr-22	14:00	1.3	WSW		
17-Apr-22	15:00	1.3	SSW		
17-Apr-22	16:00	0.9	SSW		
17-Apr-22	17:00	0.4	SW		
17-Apr-22	18:00	0.4	WSW		
17-Apr-22	19:00	0.4	SSW		
17-Apr-22	20:00	0.4	W		
17-Apr-22	21:00	0.4	SSW		
17-Apr-22	22:00	0.0	Е		
17-Apr-22	23:00	0.4	S		
18-Apr-22	0:00	0.0	SSW		
18-Apr-22	1:00	0.4	E		
18-Apr-22	2:00	0.4			
18-Apr-22	3:00	0.0			
18-Apr-22	4:00	0.0			
18-Apr-22	5:00	0.4	ENE		
18-Apr-22	6:00	1.8	ENE		
18-Apr-22	7:00	0.0	ENE		
18-Apr-22	8:00	0.4	NNE		
18-Apr-22	9:00	0.4	E		
18-Apr-22	10:00	0.4	S		
18-Apr-22	11:00	0.9	WSW		
18-Apr-22	12:00	0.9	SSW		
18-Apr-22	13:00	0.9	S		
18-Apr-22	14:00	0.4	SE		
18-Apr-22	15:00	0.4	SSW		
18-Apr-22	16:00	0.4	S		
18-Apr-22	17:00	0.4	SSW		
18-Apr-22	18:00	0.4	SSW		
18-Apr-22	19:00	0.4	SW		
18-Apr-22	20:00	0.4	NE		
18-Apr-22	21:00	0.4	NNE		
18-Apr-22	22:00	0.4	NE		
18-Apr-22	23:00	0.0	NE		

April 2022					
Table II: Wind Speed and Directions					
Date	Time	Wind Speed m/s	Direction		
19-Apr-22	0:00	0.0	NE		
19-Apr-22	1:00	0.4	ENE		
19-Apr-22	2:00	0.0	NE		
19-Apr-22	3:00	0.0	ENE		
19-Apr-22	4:00	0.0	NW		
19-Apr-22	5:00	0.0	ENE		
19-Apr-22	6:00	0.0	Е		
19-Apr-22	7:00	0.0	SW		
19-Apr-22	8:00	0.0	NE		
19-Apr-22	9:00	0.4	SSW		
19-Apr-22	10:00	0.4	WSW		
19-Apr-22	11:00	0.4	SW		
19-Apr-22	12:00	0.4	SSW		
19-Apr-22	13:00	0.4	SSW		
19-Apr-22	14:00	0.9	WNW		
19-Apr-22	15:00	1.3	SW		
19-Apr-22	16:00	1.3	SW		
19-Apr-22	17:00	0.9	SW		
19-Apr-22	18:00	1.8	SW		
19-Apr-22	19:00	1.3	WSW		
19-Apr-22	20:00	0.9	WSW		
19-Apr-22	21:00	1.3	W		
19-Apr-22	22:00	1.3	W		
19-Apr-22	23:00	1.3	W		
20-Apr-22	0:00	0.9	W		
20-Apr-22	1:00	0.9	W		
20-Apr-22	2:00	0.9	W		
20-Apr-22	3:00	0.9	W		
20-Apr-22	4:00	0.9	WSW		
20-Apr-22	5:00	0.4	W		
20-Apr-22	6:00	0.4	WSW		
20-Apr-22	7:00	0.9	WSW		
20-Apr-22	8:00	0.9	WSW		
20-Apr-22	9:00	0.9	W		
20-Apr-22	10:00	1.3	WSW		
20-Apr-22	11:00	1.8	WSW		
20-Apr-22	12:00	1.8	WSW		
20-Apr-22	13:00	1.8	NE		
20-Apr-22	14:00	1.3	NNE		
20-Apr-22	15:00	1.8	NE		
20-Apr-22	16:00	1.3	NE		
20-Apr-22	17:00	0.9	NE		
20-Apr-22	18:00	0.9	ENE		
20-Apr-22	19:00	0.4	NE		
20-Apr-22	20:00	0.4	ENE		
20-Apr-22	21:00	0.0	NW		
20-Apr-22	22:00	0.0	ENE		
20-Apr-22	23:00	0.0	E		

April 2022				
Г	able II: Wi	nd Speed and Direction	S	
Date	Time	Wind Speed m/s	Direction	
21-Apr-22	0:00	0.4	SW	
21-Apr-22	1:00	0.0	NE	
21-Apr-22	2:00	0.0	SSW	
21-Apr-22	3:00	0.0	WSW	
21-Apr-22	4:00	0.0	SW	
21-Apr-22	5:00	0.4	SSW	
21-Apr-22	6:00	0.4	SSW	
21-Apr-22	7:00	0.0	WNW	
21-Apr-22	8:00	0.4	SW	
21-Apr-22	9:00	0.0	SW	
21-Apr-22	10:00	0.4	SSW	
21-Apr-22	11:00	0.4	SW	
21-Apr-22	12:00	0.0	WSW	
21-Apr-22	13:00	0.0	SW	
21-Apr-22	14:00	0.4	E	
21-Apr-22	15:00	1.8	Е	
21-Apr-22	16:00	0.4	Е	
21-Apr-22	17:00	0.9	SSW	
21-Apr-22	18:00	0.4	SSW	
21-Apr-22	19:00	0.4	SSE	
21-Apr-22	20:00	0.4	SW	
21-Apr-22	21:00	0.4	SSE	
21-Apr-22	22:00	0.4	S	
21-Apr-22	23:00	0.4	SSW	
22-Apr-22	0:00	0.0	SSW	
22-Apr-22	1:00	0.0	WSW	
22-Apr-22	2:00	0.0	SSW	
22-Apr-22	3:00	0.4	SW	
22-Apr-22	4:00	0.4	SW	
22-Apr-22	5:00	0.9	SSW	
22-Apr-22	6:00	0.9	SW	
22-Apr-22	7:00	0.9	E	
22-Apr-22	8:00	0.9	ENE	
22-Apr-22	9:00	0.9	ENE	
22-Apr-22	10:00	1.3	ENE	
22-Apr-22	11:00	1.3	SW	
22-Apr-22	12:00	1.3	SW	
22-Apr-22	13:00	0.9	NNE	
22-Apr-22	14:00	0.9	ENE	
22-Apr-22	15:00	1.3	NE	
22-Apr-22	16:00	0.9	SE	
22-Apr-22	17:00	0.9	ENE	
22-Apr-22	18:00	1.3	SW	
22-Apr-22	19:00	1.8	ENE	
22-Apr-22	20:00	0.9	ESE	
22-Apr-22	21:00	0.4	WSW	
22-Apr-22	22:00	0.4	WSW	
22-Apr-22	23:00	0.9	WSW	

April 2022					
Table II: Wind Speed and Directions					
Date	Time	Wind Speed m/s	Direction		
23-Apr-22	0:00	2.2	WSW		
23-Apr-22	1:00	2.2	SW		
23-Apr-22	2:00	1.8	WSW		
23-Apr-22	3:00	0.4	Е		
23-Apr-22	4:00	0.4	SE		
23-Apr-22	5:00	0.4	ENE		
23-Apr-22	6:00	0.4	SE		
23-Apr-22	7:00	0.4	W		
23-Apr-22	8:00	0.4	NE		
23-Apr-22	9:00	0.9	NE		
23-Apr-22	10:00	0.4	NE		
23-Apr-22	11:00	0.4	NNE		
23-Apr-22	12:00	0.9	Е		
23-Apr-22	13:00	0.9	SW		
23-Apr-22	14:00	0.9	ENE		
23-Apr-22	15:00	0.4	NE		
23-Apr-22	16:00	0.4	NE		
23-Apr-22	17:00	0.4	NNE		
23-Apr-22	18:00	0.4	NE		
23-Apr-22	19:00	0.4	NE		
23-Apr-22	20:00	0.4	NE		
23-Apr-22	21:00	0.4	ENE		
23-Apr-22	22:00	0.4	NE		
23-Apr-22	23:00	0.4	ENE		
24-Apr-22	0:00	0.4	NW		
24-Apr-22	1:00	0.4	ENE		
24-Apr-22	2:00	0.4	E		
24-Apr-22	3:00	0.4	SW		
24-Apr-22	4:00	0.4	NE		
24-Apr-22	5:00	0.4	SSW		
24-Apr-22	6:00	0.4	WSW		
24-Apr-22	7:00	0.4	SW		
24-Apr-22	8:00	0.9	SSW		
24-Apr-22	9:00	0.4	SSW		
24-Apr-22	10:00	0.4	WNW		
24-Apr-22	11:00	0.0	SW		
24-Apr-22	12:00	0.4	SW		
24-Apr-22	13:00	0.0	W		
24-Apr-22	14:00	0.4	W		
24-Apr-22	15:00	0.4	WNW		
24-Apr-22	16:00	0.0	NE		
24-Apr-22	17:00	0.0	NE		
24-Apr-22	18:00	0.4	W		
24-Apr-22	19:00	1.8	SSE		
24-Apr-22	20:00	0.4	WNW		
24-Apr-22	21:00	0.4	ENE		
24-Apr-22	22:00	0.4	W		
24-Apr-22	23:00	0.4	NE		

April 2022				
Т	able II: Wi	nd Speed and Direction	s	
Date	Time	Wind Speed m/s	Direction	
25-Apr-22	0:00	0.4	NE	
25-Apr-22		0.4	ENE	
	1:00 2:00	0.4	W	
25-Apr-22	3:00			
25-Apr-22		0.0	ENE NE	
25-Apr-22 25-Apr-22	4:00 5:00	0.4	W	
25-Apr-22		0.4	W	
25-Apr-22	6:00 7:00	0.4	ENE	
25-Apr-22	8:00	0.4	NE	
25-Apr-22	9:00	0.4	ENE	
25-Apr-22	10:00	0.4	NE	
25-Apr-22		0.9	NE	
25-Apr-22 25-Apr-22	11:00 12:00	0.9	NE	
25-Apr-22	12:00	0.4	NE	
25-Apr-22	13:00	0.4	ENE	
25-Apr-22	15:00	0.4	NNE	
25-Apr-22	16:00	0.0	NE	
25-Apr-22	17:00	0.0	NNE	
25-Apr-22	17:00	0.0	NE	
25-Apr-22	19:00	0.4	NE	
25-Apr-22	20:00	0.4	NE	
25-Apr-22	20:00	0.9	ENE	
25-Apr-22	22:00	0.9	NE	
25-Apr-22	23:00	0.9	ENE	
26-Apr-22	0:00	0.9	NW	
26-Apr-22	1:00	0.4	ENE	
26-Apr-22	2:00	0.9	E	
26-Apr-22	3:00	0.0	SW	
26-Apr-22	4:00	0.0	NE	
26-Apr-22	5:00	0.0	SSW	
26-Apr-22	6:00	0.0	WSW	
26-Apr-22	7:00	0.0	SW	
26-Apr-22	8:00	0.0	SSW	
26-Apr-22	9:00	0.4	SSW	
26-Apr-22	10:00	0.4	WNW	
26-Apr-22	11:00	0.4	SW	
26-Apr-22	12:00	0.4	SW	
26-Apr-22	13:00	0.9	SW	
26-Apr-22	14:00	0.9	SSW	
26-Apr-22	15:00	0.9	SSW	
26-Apr-22	16:00	0.4	SSW	
26-Apr-22	17:00	0.0	SSW	
26-Apr-22	18:00	0.0	ESE	
26-Apr-22	19:00	0.0	SW	
26-Apr-22	20:00	0.4	W	
26-Apr-22	21:00	0.4	WSW	
26-Apr-22	22:00	0.4	WSW	
		0.0	SW	
26-Apr-22	23:00	0.0	SW	

April 2022						
Table	Table II: Wind Speed and Directions					
Date	Time	Wind Speed m/s	Direction			
27-Apr-22	0:00	0.0	SW			
27-Apr-22	1:00	0.0	SW			
27-Apr-22	2:00	0.0	WSW			
27-Apr-22	3:00	0.0	WSW			
27-Apr-22	4:00	0.0	WSW			
27-Apr-22	5:00	0.0	WSW			
27-Apr-22	6:00	0.4	SW			
27-Apr-22	7:00	0.4	NE			
27-Apr-22	8:00	0.4	SSW			
27-Apr-22	9:00	0.4	NE			
27-Apr-22	10:00	1.3	WSW			
27-Apr-22	11:00	1.8	NE			
27-Apr-22	12:00	1.8	NE			
27-Apr-22	12:00	1.3	SW			
27-Apr-22	14:00	0.9	E			
27-Apr-22	15:00	0.9	E			
27-Apr-22	16:00	0.4	ESE			
27-Apr-22	17:00	0.4	NNE			
27-Apr-22	18:00	0.0	S			
27-Apr-22	19:00	0.4	SSE			
27-Apr-22	20:00	0.0	ENE			
27-Apr-22	21:00	0.4	ENE			
27-Apr-22	22:00	0.4	ENE			
27-Apr-22	23:00	0.0	NE			
28-Apr-22	0:00	0.0	NE			
28-Apr-22	1:00	0.4	NNE			
28-Apr-22	2:00	1.8	NE			
28-Apr-22	3:00	0.4	NE			
28-Apr-22	4:00	0.4	NE			
28-Apr-22	5:00	0.4	ENE			
28-Apr-22	6:00	0.4	NE			
28-Apr-22	7:00	0.4	ENE			
28-Apr-22	8:00	0.9	NW			
28-Apr-22	9:00	1.3	ENE			
28-Apr-22	10:00	1.3	Е			
28-Apr-22	11:00	1.8	SW			
28-Apr-22	12:00	2.2	NE			
28-Apr-22	13:00	1.3	SSW			
28-Apr-22	14:00	1.3	WSW			
28-Apr-22	15:00	1.8	SW			
28-Apr-22	16:00	1.8	SSW			
28-Apr-22	17:00	1.3	SSW			
28-Apr-22	18:00	1.3	WNW			
28-Apr-22	19:00	0.9	SW			
28-Apr-22	20:00	1.3	SW			
28-Apr-22	21:00	1.3	Е			
28-Apr-22	22:00	1.3	SSW			
28-Apr-22	23:00	0.9	Е			

	April 2022			
т	able II: Wi	nd Speed and Direction	IS	
Date	Time	-	Direction	
		Wind Speed m/s		
29-Apr-22	0:00	0.4	ENE ENE	
29-Apr-22	1:00	0.9		
29-Apr-22	2:00	1.3	WSW	
29-Apr-22	3:00	0.9	SW	
29-Apr-22	4:00	0.9	NE	
29-Apr-22	5:00	0.9	ENE	
29-Apr-22	6:00	0.9	ENE	
29-Apr-22	7:00	0.9	ENE	
29-Apr-22	8:00	0.9	SSW SW	
29-Apr-22 29-Apr-22	9:00 10:00	2.2	W	
		2.2		
29-Apr-22	11:00 12:00	1.3	NE NE	
29-Apr-22		0.9	E	
29-Apr-22	13:00 14:00	0.9	E	
29-Apr-22 29-Apr-22	14:00	0.9	S	
29-Apr-22 29-Apr-22	16:00	0.9	NNE	
29-Apr-22 29-Apr-22	17:00	0.9	NE	
29-Apr-22 29-Apr-22		0.9	SSW	
29-Apr-22 29-Apr-22	18:00 19:00	0.4	SW	
29-Apr-22 29-Apr-22	20:00	0.0	NNE	
29-Apr-22 29-Apr-22	20:00	0.0	ENE	
29-Apr-22 29-Apr-22	22:00	0.0	ENE	
29-Apr-22 29-Apr-22	22:00	0.0	NE	
30-Apr-22	0:00	0.0	NNE	
30-Apr-22	1:00	0.0	NE	
30-Apr-22	2:00	0.4	NE	
30-Apr-22	3:00	0.0	NE	
30-Apr-22	4:00	0.0	ENE	
30-Apr-22	5:00	0.0	NE	
30-Apr-22	6:00	0.0	ENE	
30-Apr-22	7:00	0.4	NW	
30-Apr-22	8:00	0.4	ENE	
30-Apr-22	9:00	0.4	E	
30-Apr-22	10:00	0.4	SW	
30-Apr-22	11:00	0.4	NE	
30-Apr-22	12:00	0.9	SSW	
30-Apr-22	13:00	1.3	WSW	
30-Apr-22	14:00	1.3	SW	
30-Apr-22	15:00	0.9	SSW	
30-Apr-22	16:00	0.9	SSW	
30-Apr-22	17:00	0.9	WNW	
30-Apr-22	18:00	0.4	SW	
30-Apr-22	19:00	0.0	SW	
30-Apr-22	20:00	0.0	WNW	
30-Apr-22	21:00	0.0	SW	
30-Apr-22	22:00	0.0	SW	
30-Apr-22	23:00	0.0	SW	

April 2022				
Table	Table II: Wind Speed and Directions			
Date Time Wind Speed m/s Direction				

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

Contract No. KLN/2016/04 Environmental Monitoring Works for Contract No. KL/2015/02 Kai Tak Development –Stage 5A Infrastructure at Former North Apron Area Impact Air and Noise Monitoring Schedule for April 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Apr	2-Apr
						24-hr TSP [AM2(A)]
3-Apr	4-Apr	5-Apr	6-Apr	7-Apr		9-Apr
	1-hr TSP x 3 [AM2]			24-hr TSP [AM2(A)]	1-hr TSP x 3 [AM2]	
	Noise [M3(A), M4 & M5(C)]					
10-Apr	11-Apr	12-Apr		14-Apr	15-Apr	16-Apr
		24-hr TSP [AM2(A)]	1-hr TSP x 3 [AM2] Noise [M3(A), M4 &	24-hr TSP [AM2(A)]		
			M5(C)]			
17-Apr	18-Apr	1-hr TSP x 3 [AM2]	20-Apr	21-Apr 1-hr TSP x 3 [AM2]	22-Apr	23-Apr
		Noise [M3(A), M4 & M5(C)]	24-hr TSP [AM2(A)]			
24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr
		24-hr TSP [AM2(A)]				24-hr TSP [AM2(A)]
771 1 1 1 1			Noise [M3(A), M4 & M5(C)]			

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

* The noise level limit is 65dB(A) during the exam period

Air Quality Monitoring Station

Noise Monitoring Station

AM2 - Lee Kau Yan Memorial School AM2(A) - Ng Wah Catholic Secondary School M3(A) - The Bridge connecting The Latitude M4 - Lee Kau Yan Memorial School M5(C) - Mercy Grace's Home

Contract No. KLN/2016/04 Environmental Monitoring Works for Contract No. KL/2015/02 Kai Tak Development –Stage 5A Infrastructure at Former North Apron Area Temtative Impact Air and Noise Monitoring Schedule for May 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-May	2-May	3-May	4-May	5-May	6-May	7-May
		1-hr TSP x 3 [AM2]		24-hr TSP [AM2(A)]	1-hr TSP x 3 [AM2]	
		Noise [M3(A), M4 & M5(C)]				
8-May	9-May	10-May	11-May	12-May	13-May	14-May
			24-hr TSP [AM2(A)]	1-hr TSP x 3 [AM2]		
				Noise [M3(A), M4 & M5(C)]		
15-May	16-May	17-May	18-May	19-May	20-May	21-May
		24-hr TSP [AM2(A)]	1-hr TSP x 3 [AM2]			
			Noise [M3(A), M4 & M5(C)]			
22-May	23-May	24-May	25-May	26-May	27-May	28-May
	24-hr TSP [AM2(A)]	1-hr TSP x 3 [AM2]				24-hr TSP [AM2(A)]
		Noise [M3(A), M4 & M5(C)]				
29-May	30-May	31-May				
	1-hr TSP x 3 [AM2]					
	Noise [M3(A), M4 & M5(C)]					

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

* The noise level limit is 65dB(A) during the exam period

Air Quality Monitoring Station

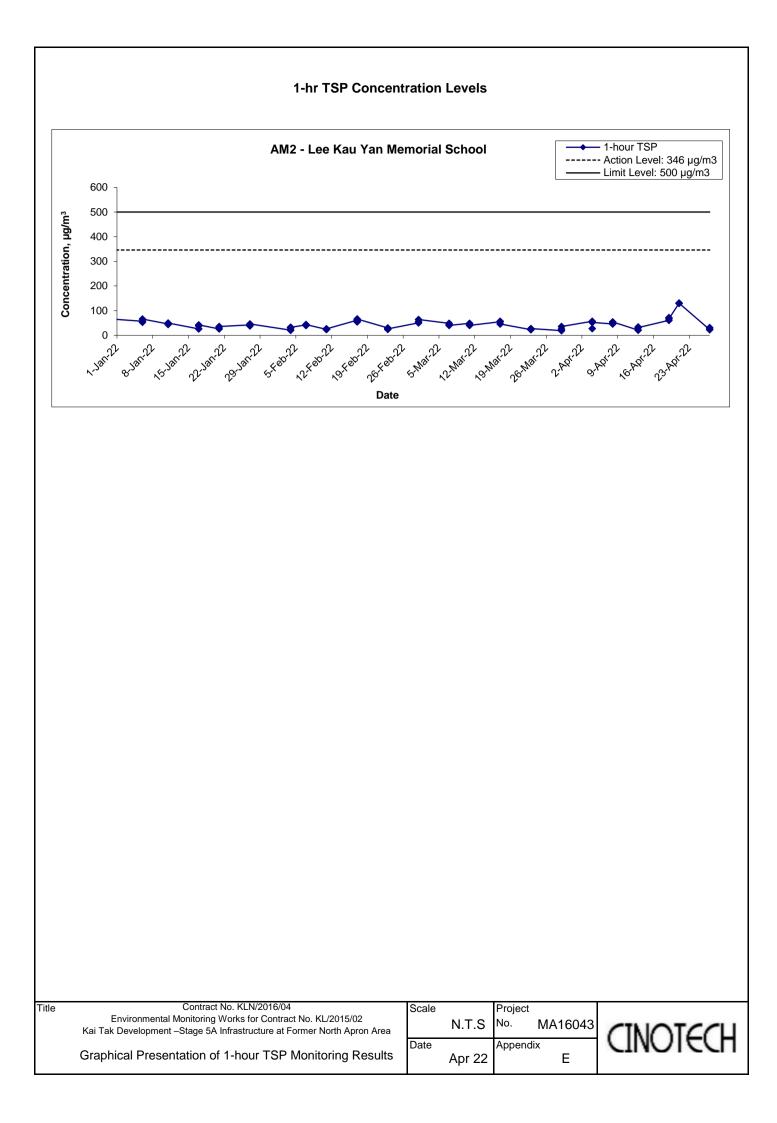
Noise Monitoring Station

AM2 - Lee Kau Yan Memorial School AM2(A) - Ng Wah Catholic Secondary School M3(A) - The Bridge connecting The Latitude M4 - Lee Kau Yan Memorial School M5(C) - Mercy Grace's Home

APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix E - 1-hour TSP Monitoring Results

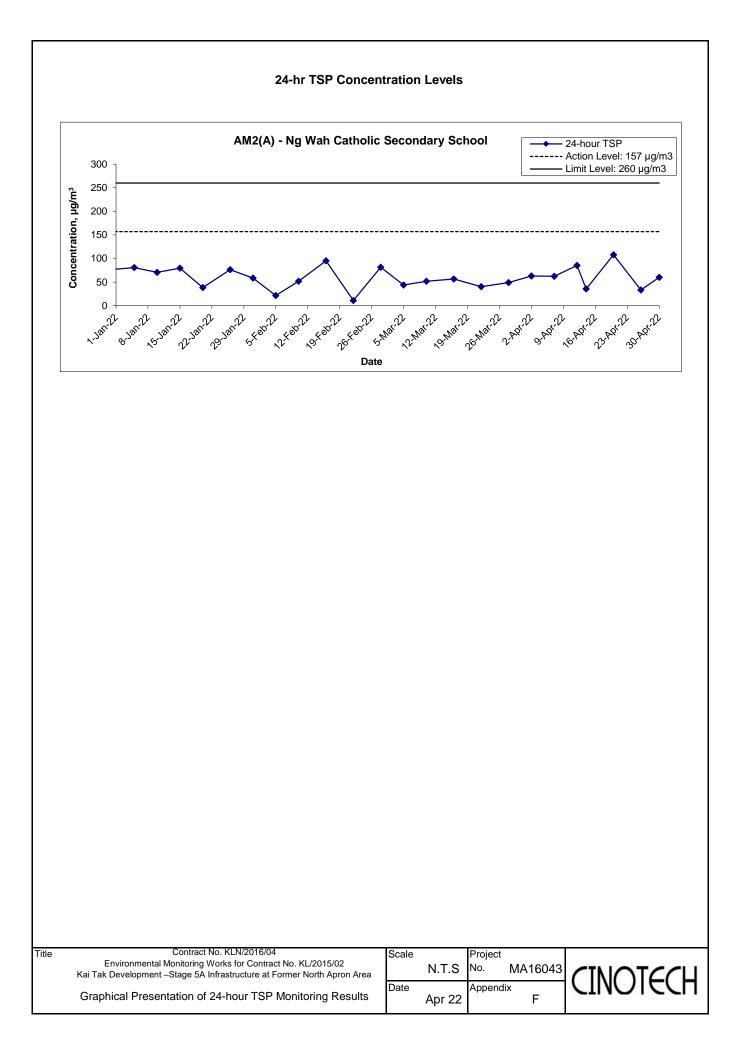
Location AM2 - Lee Kau Yan Memorial School					
Date	Time	Weather	Particulate Concentration (µg/m ³)		
4-Apr-22	14:00	Fine	56.7		
4-Apr-22	15:00	Fine	27.3		
4-Apr-22	16:00	Fine	52.5		
8-Apr-22	14:00	Fine	46.2		
8-Apr-22	15:00	Fine	48.3		
8-Apr-22	16:00	Fine	54.6		
13-Apr-22	14:00	Fine	21.0		
13-Apr-22	15:00	Fine	33.6		
13-Apr-22	16:00	Fine	31.5		
19-Apr-22	9:00	Fine	60.9		
19-Apr-22	10:00	Fine	71.4		
19-Apr-22	11:00	Fine	67.2		
21-Apr-22	14:30	Sunny	130.2		
21-Apr-22	15:30	Sunny	130.2		
21-Apr-22	16:30	Sunny	130.2		
27-Apr-22	13:00	Sunny	23.1		
27-Apr-22	14:00	Sunny	31.5		
27-Apr-22	15:00	Sunny	25.2		
		Average	57.9		
		Maximum	130.2		
		Minimum	21.0		



APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix F - 24-hour TSP Monitoring Results

Start Date	Weather	Air Temp.	Atmospheric Pressure,	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av. Flow	Total vol.	Conc.
Start Date	Condition	(K)	Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m3/min)	(m3)	(µg/m3)
2-Apr-22	Sunny	289.9	768.0	3.3853	3.4966	0.1113	8962.3	8986.3	24.0	1.23	1.22	1.23	1768.9	62.9
7-Apr-22	Sunny	296.2	763.2	3.4025	3.5115	0.1089	8986.3	9010.3	24.0	1.22	1.21	1.21	1749.0	62.3
12-Apr-22	Sunny	298.5	756.9	3.4147	3.5629	0.1482	9010.3	9034.3	24.0	1.21	1.21	1.21	1738.2	85.2
14-Apr-22	Cloudy	297.9	758.7	3.3840	3.4461	0.0620	9034.3	9058.3	24.0	1.21	1.21	1.21	1741.2	35.6
20-Apr-22	Sunny	295.9	761.8	3.3384	3.5269	0.1885	9058.3	9082.3	24.0	1.22	1.21	1.21	1748.5	107.8
26-Apr-22	Sunny	301.1	757.6	3.3905	3.4480	0.0575	9082.3	9106.3	24.0	1.20	1.20	1.20	1733.2	33.2
30-Apr-22	Sunny	296.1	760.3	3.3452	3.4499	0.1047	9106.3	9130.3	24.0	1.21	1.22	1.21	1746.9	59.9
													Min	33.2
													Max	107.8



APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

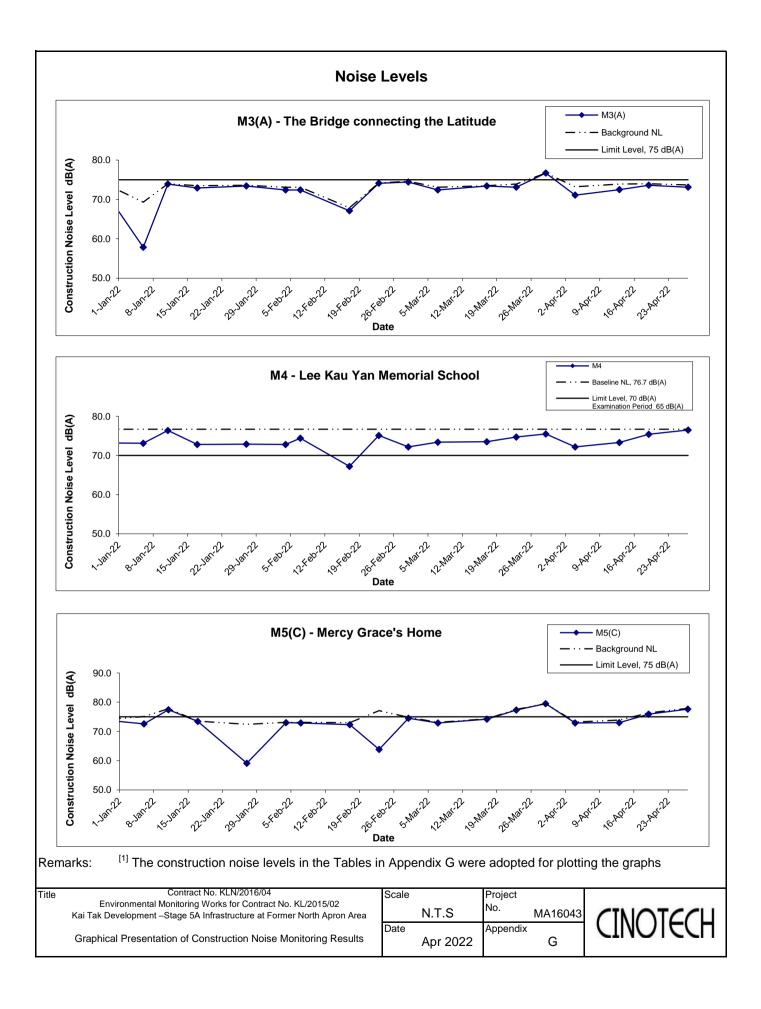
Appendix G - Noise Monitoring Results

i.

Location M3(A) - The Bridge connecting The Latitude								
Date					L	Jnit: dB (A) (30-min)		
	Time	Weather	Mea	easured Noise Level Background Noise Const		nstruction Noise Level		
			L _{eq}	L ₁₀	L ₉₀	L _{eq}		L _{eq}
4-Apr-22	11:30	Sunny	71.1	72.4	69.5	73.2	71.1	Measured ≦ Background
13-Apr-22	11:30	Fine	72.5	75.3	69.4	73.9	72.5	Measured \leq Background
19-Apr-22	11:30	Cloudy	73.6	74.9	71.7	74.0	73.6	Measured \leq Background
27-Apr-22	11:30	Sunny	73.1	74.9	71.1	73.7	73.1	Measured \leq Background

Location M4 - Lee Kau Yan Memorial School								
					U	Init: dB (A) (30-min)		
Date Time	Time	Weather	Mea	asured Noise L	ured Noise Level Baseline Level Construction Nois		nstruction Noise Level	
			L _{eq}	L ₁₀	L ₉₀	L _{eq}		L _{eq}
4-Apr-22	13:00	Sunny	72.2	74.2	69.3		72.2	Measured \leq Baseline
13-Apr-22	14:00	Fine	73.3	75.1	70.4	76.7	73.3	Measured \leq Baseline
19-Apr-22	15:00	Cloudy	75.4	76.8	72.1	70.7	75.4	Measured \leq Baseline
27-Apr-22	14:30	Sunny	76.5	78.2	74.2		76.5	Measured \leq Baseline

Location M5(C) - Mercy G	race's Home						
					l	Jnit: dB (A) (30-min)		
Date Time	Weather	Mea	Measured Noise Level Backg		Background Noise	Construction Noise Level		
			L _{eq}	L ₁₀	L ₉₀	L _{eq}		L _{eq}
4-Apr-22	17:12	Sunny	72.9	74.5	69.9	73.2	72.9	Measured ≦ Background
13-Apr-22	16:00	Fine	73.0	75.4	70.2	73.9	73.0	Measured \leq Background
19-Apr-22	13:00	Cloudy	75.9	77.6	73.7	76.3	75.9	Measured \leq Background
27-Apr-22	13:00	Sunny	77.6	79.8	74.0	77.9	77.6	Measured ≤ Background



APPENDIX H SUMMARY OF EXCEEDANCE

Appendix H – Summary of Exceedance

Exceedance Record for Contract No. KL/2015/02 Reporting Month: April 2022

- (A) Exceedance Record for Air Quality (NIL in the reporting month)
- (B) Exceedance Record for Construction Noise (NIL in the reporting month)
- (C) Exceedance Record for Landscape and Visual (NIL in the reporting month)

APPENDIX I SITE AUDIT SUMMARY

Checklist Reference Number	220404
Date	4 April 2022 (Monday)
Time	14:00 - 15:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	No follow-up items are required from the previous site inspection (ref no.: 220329).	

	Name	Signature	Date
Recorded by	Echo Hung	Land	4 April 2022
Checked by	Colman Wong	Colman	6 April 2022

Checklist Reference Number	220413
Date	13 April 2022 (Wednesday)
Time	9:30 - 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	No follow-up items are required from the previous site inspection (ref no.: 220404).	

	Name	Signature	Date
Recorded by	Echo Hung	Ling	13 April 2022
Checked by	Colman Wong	Colman	14 April 2022

Checklist Reference Number	220419
Date	19 April 2022 (Tuesday)
Time	14:00 - 15:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	No follow-up items are required from the previous site inspection (ref no.: 220413).	

	Name	Signature	Date
Recorded by	Echo Hung	Land	19 April 2022
Checked by	Colman Wong	Colman	20 April 2022

Checklist Reference Number	220425
Date	25 April 2022 (Monday)
Time	14:00 - 15:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Noise	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection	
	G. Permits /Licences	
	No environmental deficiency was identified during site inspection.	
	H. Others	
	No follow-up items are required from the previous site inspection (ref no.: 220419).	

	Name	Signature	Date
Recorded by	Echo Hung	Land	25 April 2022
Checked by	Colman Wong	Colman	26 April 2022

APPENDIX J EVENT ACTION PLANS

Event/Action Plan for Air Quality

EVENT	ACTION					
	ET	IEC	ER	CONTRACTOR		
Action Level being	1. Identify source and investigate the	1. Check monitoring data submitted	1. Notify Contractor.	1. Rectify any unacceptable practice;		
exceeded by	causes of exceedance;	by ET;		2. Amend working methods if		
one sampling	2. Inform Contactor, IEC and ER;	2. Check Contractor's working		appropriate.		
	3. Repeat measurement to confirm finding.	method.				
Action Level being	1. Identify source and investigate the	1. Check monitoring data submitted	1. Confirm receipt of notification	1. Discuss with ET and IEC on proper		
exceeded by	causes of exceedance;	by ET;	of exceedance in writing;	remedial actions;		
two or more	2. Inform Contractor, IEC and ER;	2. Check Contractor's working	2. Notify Contractor;	2. Submit proposals for remedial		
consecutive	3. Increase monitoring frequency to daily;	method;	3. In consolidation with the IEC,	actions to ER and IEC within three		
sampling	4. Discuss with IEC and Contractor on	3. Discuss with ET and Contractor on	agree with the Contractor on the	working days of notification;		
	remedial actions required;	possible remedial measures;	remedial measures to be	3. Implement the agreed proposals;		
	5. Assess the effectiveness of	4. Advise the ER on the effectiveness	implemented;	4. Amend proposal if appropriate.		
	Contractor's remedial actions;	of the proposed remedial measures.	4. Supervise implementation of			
	6. If exceedance continues, arrange		remedial measures;			
	meeting with IEC and ER;		5. Conduct meeting with ET and			
	7. If exceedance stops, cease additional		IEC if exceedance continues.			
	monitoring.					
Limit Level being	1. Identify source and investigate the	1. Check monitoring data submitted	1. Confirm receipt of notification	1. Take immediate action to avoid		
exceeded by	causes of exceedance;	by ET;	of exceedance in writing;	further exceedance;		
one sampling	2. Inform Contractor, IEC, ER, and EPD;	2. Check Contractor's working	2. Notify Contractor;	2. Discuss with ET and IEC on proper		
	3. Repeat measurement to confirm finding;	method;	3. In consolidation with the IEC,	remedial actions;		
	4. Assess effectiveness of	3. Discuss with ET and Contractor on	agree with the Contractor on the	3. Submit proposals for remedial		
	Contractor's remedial actions and keep	possible remedial measures;	remedial measures to be	actions to ER and IEC within three		

	EPD, IEC and ER informed of	4. Advise the ER on the	implemented;	working days of notification;
	the results.	effectiveness of the proposed	4. Supervise implementation of	4. Implement the agreed proposals.
		remedial measures.	remedial measures;	
			5. Conduct meeting with ET and	
			IEC if exceedance continues.	
Limit Level being	1. Notify IEC, ER, Contractor and	1. Check monitoring data submitted	1. Confirm receipt of notification	1. Take immediate action to avoid
exceeded by	EPD;	by ET;	of exceedance in writing;	further exceedance;
two or more	2. Repeat measurement to confirm	2. Check Contractor's working	2. Notify Contractor;	2. Discuss with ET, ER and IEC on
consecutive	findings;	method;	3. In consolidation with the IEC,	proper remedial actions;
sampling	3. Carry out analysis of Contractor's	3. Discuss amongst ER, ET, and	agree with the Contractor on the	3. Submit proposals for remedial
	working procedures to identify source and	Contractor on the potential remedial	remedial measures to be	actions to IEC within three working
	investigate the causes of exceedance;	actions;	implemented;	days of notification;
	4. Increase monitoring frequency to	4. Review Contractor's remedial	4. Supervise implementation of	4. Implement the agreed proposals;
	daily;	actions whenever necessary to	remedial measures;	5. Submit further remedial actions if
	5. Arrange meeting with IEC, ER	assure their effectiveness and	5. If exceedance continues,	problem still not under control;
	and Contractor to discuss the	advise the ER accordingly.	consider stopping the Contractor	6. Stop the relevant portion of works
	remedial actions to be taken;		to continue working on that	as instructed by the ER until the
	6. Assess effectiveness of		portion of work which causes the	exceedance is abated.
	Contractor's remedial actions and		exceedance until the	
	keep EPD, IEC and ER informed		exceedance is abated.	
	of the results;			
	7. If exceedance stops, cease additional			
	monitoring.			

Event/Action Plan for Construction Noise

EVENT	ACTION					
	ET	IEC	ER	CONTRACTOR		
Action Level	1. Notify ER, IEC and Contractor;	1. Review the investigation	1. Confirm receipt of	1. Submit noise mitigation		
being	2. Carry out investigation;	results submitted by the ET;	notification of failure in	proposals to IEC and ER;		
exceeded	3. Report the results of investigation	2. Review the proposed remedial	writing;	2. Implement noise mitigation		
	to the IEC, ER and Contractor;	measures by the Contractor and	2. Notify Contractor;	proposals.		
	4. Discuss with the IEC and	advise the ER accordingly;	3. In consolidation with the	(The above actions should be		
	Contractor on remedial measures	3. Advise the ER on the	IEC, agree with the	taken within 2 working days after		
	required;	effectiveness of the proposed	Contractor on the remedial	the exceedance is identified)		
	5. Increase monitoring frequency to	remedial measures.	measures to be implemented;			
	check mitigation effectiveness.	(The above actions should be	4. Supervise the			
	(The above actions should be taken	taken within 2 working days after	implementation of remedial			
	within 2 working days after the	the exceedance is identified)	measures.			
	exceedance is identified)		(The above actions should be			
			taken within 2 working days			
			after the exceedance is			
			identified)			
Limit Level	1. Inform IEC, ER, Contractor and	1. Discuss amongst ER, ET, and	1. Confirm receipt of	1. Take immediate action to		
being	EPD;	Contractor on the potential	notification of failure in	avoid further exceedance;		
exceeded	2. Repeat measurements to confirm	remedial actions;	writing;	2. Submit proposals for remedial		
	findings;	2. Review Contractor's remedial	2. Notify Contractor;	actions to IEC and ER within 3		
	3. Increase monitoring frequency;	actions whenever necessary to	3. In consolidation with the	working days of notification;		
	4. Identify source and investigate the	assure their effectiveness and	IEC, agree with the	3. Implement the agreed		
	cause of exceedance;	advise the ER accordingly.	Contractor on the remedial	proposals;		

5. Carry out analysis of Contractor's	(The above actions should be	measures to be implemented;	4. Submit further proposal if
working procedures;	taken within 2 working days after	4. Supervise the	problem still not under control;
6. Discuss with the IEC, Contractor	the exceedance is identified)	implementation of remedial	5. Stop the relevant portion of
and ER on remedial measures		measures;	works as instructed by the ER
required;		5. If exceedance continues,	until the exceedance is abated.
7. Assess effectiveness of		consider stopping the	(The above actions should be
Contractor's remedial actions and		Contractor to continue	taken within 2 working days after
keep IEC, EPD and ER informed of		working on that portion of	the exceedance is identified)
the results;		work which causes the	
8. If exceedance stops, cease		exceedance until the	
additional monitoring.		exceedance is abated.	
(The above actions should be taken		(The above actions should be	
within 2 working days after the		taken within 2 working days	
exceedance is identified)		after the exceedance is	
		identified)	

Event/Action Plan for Landscape and Visual

EVENT			ACTION	
ACTION LEVEL	ET	IEC	ER	CONTRACTOR
Design Check	 Check final design conforms to the requirements of EP and prepare report. 	 Check report. Recommend remedial design if necessary 	1. Undertake remedial design if necessary	
Non-conformity on one occasion	 Identify Source Inform IEC and ER Discuss remedial actions with IEC, ER and Contractor Monitor remedial actions until rectification has been completed 	 Check report Check Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise ER on effectiveness of proposed remedial measures. Check implementation of remedial measures. 	 Notify Contractor Ensure remedial measures are properly implemented 	 Amend working methods Rectify damage and undertake any necessary replacement
Repeated Non-conformity	1. Identify Source Inform IEC and	1. Check monitoring report	 Notify Contractor Ensure remedial measures are properly 	 Amend working methods Rectify damage and

ER	2. Check Contractor's	implemented	undertake any necessary
2. Increase	working method		replacement
monitoring	3. Discuss with ET and		
frequency	Contractor on possible		
3. Discuss remedial	remedial measures		
actions with IEC,	4. Advise ER on		
ER and Contractor	effectiveness of		
4. Monitor remedial	proposed remedial		
actions until	measures		
rectification has	5. Supervise		
been completed	implementation of		
5. If non-conformity	remedial measures.		
stops, cease			
additional			
monitoring			

APPENDIX K ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EIA Ref.	Recommended Mitigation Measures	Implementation
		Status
Construct	tion Air Quality	
S6.5	8 times daily watering of the work site with active dust emitting activities.	۸
S6.8	Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation	٨
	measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimize cumulative dust impacts.	
	• Stockpiling site(s) should be lined with impermeable sheeting and bunded. Stockpiles should be fully covered by impermeable sheeting to	٨
	reduce dust emission.	
	• Misting for the dusty material should be carried out before being loaded into the vehicle. Any vehicle with an open load carrying area should	٨
	have properly fitted side and tail boards.	
	• Material having the potential to create dust should not be loaded from a level higher than the side and tail boards and should be dampened	٨
	and covered by a clean tarpaulin.	
	• The tarpaulin should be properly secured and should extent at least 300 mm over the edges of the sides and tailboards. The material should	٨
	also be dampened if necessary before transportation.	
	• The vehicles should be restricted to maximum speed of 10 km per hour and confined haulage and delivery vehicle to designated roadways	٨
	insider the site. Onsite unpaved roads should be compacted and kept free of lose materials.	
	• Vehicle washing facilities should be provided at every vehicle exit point.	٨
	• The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with	٨
	concrete, bituminous materials or hardcores.	
	• Every main haul road should be scaled with concrete and kept clear of dusty materials or sprayed with water so as to maintain the entire road	٨
	surface wet.	
	• Every stock of more than 20 bags of cement should be covered entirely by impervious sheeting placed in an area sheltered on the top and the	٨
	three sides.	
	• Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites.	٨

S6.8	•	DWFI compound for JVBC:	N/A
		A DWFI compound is proposed at the downstream of JVC to contain pollution in drainage systems entering the KTAC and KTTS by	
		interception facilities until the ultimate removal of the pollution sources. Tidal barriers and desiliting facilities will form part of the	
		compounds to prevent any accumulation of sediment within the downstream section of JVBC and hence fully mitigate the potential odour	
		emissions from the headspace of JVBC near the existing discharge locations. The odour generating operations within the proposed desilting	
		compound will be fully enclosed and the odorous air will be collected and treated by high efficiency deodorizers before discharge to the	
		atmosphere.	
	•	Desilting compound for KTN:	N/A
		Two desilting compounds are proposed for KTN (at Site 1D6 and Site 1P1) to contain pollution in drainage systems entering the KTAC and	
		KTTS by interception facilities until the ultimate removal of the pollution sources. Tidal barriers and desiliting facilities will form part of the	
		compounds to prevent any accumulation of sediment within the downstream section of KTN and hence fully mitigate the potential odour	
		emissions from the headspace of KTN near the existing discharge locations. The odour generating operations within the proposed desilting	
		compound will be fully enclosed and the odorous air will be collected and treated by high efficiency deodorizers before discharge to the	
		atmosphere.	
	•	Decking or reconstruction of KTN within apron area:	N/A
		It is proposed to deck the KTN or reconstruct the KTN within the former Apron area into Kai Tak River from the south of Road D1 to the	
		north of Road D2 along the existing alignment of KTN. The Kai Tak River will compose of a number of channels flowing with nonodorous	
		fresh water and THEES effluent. The channel flowing with THEES effluent will be designed with the width of water surface of not more	
		than 16m.	
	•	Localised maintenance dredging:	N/A
		Localised maintenance dredging should be conducted to provide water depth of not less than 3.5m over the whole of KTAC and KTTS. With	
		reference to the water depth data recorded during the odour survey, only some of the areas in the northern part of KTAC (i.e. to the north of	
		taxiway bridge) including the area near the northern edge of KTAC, the area near western bank of KTAC, and the area near the JVC	
		discharge have water depths shallower than 3.5m. The area involved would be about 40% of the northern KTAC and the dredging depth	
		required would be from about 2.7m to less than 1m. The maintenance dredging to be carried out prior to the occupation of any new	
		development in the immediate vicinity of KTAC to avoid potential localized odour impacts at the future ASRs during the maintenance	

Improvement of water circulation in KTAC and KTTS:	
mprovement of water circulation in KTAC and KTTS.	N/A
600m gap opening at the northern part of the former Kai Tak runway, the water circulation in KTAC and KTTS would be substantially	
improved. Together with the improvement in water circulation, the DO level in KTAC and KTTS would also be increased.	
In-situ sediment treatment by bioremediation:	
Bioremediation would be applied to the entire KTAC and KTTS.	N/A
tion Noise	
Use of quiet PME, movable barriers barrier for Asphalt Paver, Breaker, Excavator and Hand-held breaker and full enclosure for Air Compressor, Bar	٨
Bender, Concrete Pump, Generator and Water Pump.	
Good Site Practice:	
• Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program.	٨
• Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program.	٨
• Mobile plant, if any, should be sited as far away from NSRs as possible.	
• Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down	٨
to a minimum.	
• Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the	٨
nearby NSRs.	
• Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction	٨
activities.	
Scheduling of Construction Works during School Examination Period	٨
(i) Provision of low noise surfacing in a section of Road L2; and	N/A
(ii) Provision of structural fins	N/A
(i) Avoid the sensitive façade of class room facing Road L2 and L4; and	N/A
(ii) Provision of low noise surfacing in a section of Road L2 & L4	N/A
	improved. Together with the improvement in water circulation, the DO level in KTAC and KTTS would also be increased. In-situ sediment treatment by bioremediation: Bioremediation would be applied to the entire KTAC and KTTS. ion Noise Use of quiet PME, movable barriers barrier for Asphalt Paver, Breaker, Excavator and Hand-held breaker and full enclosure for Air Compressor, Bar Bender, Concrete Pump, Generator and Water Pump. Good Site Practice: • Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program. • Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program. • Mobile plant, if any, should be sited as far away from NSRs as possible. • 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. • 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. • Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities. Scheduling of Construction Works during School Examination Period (i) Provision of low noise surfacing in a section of Road L2; and (ji) Provision of structural fins (j) Avoid the sensitive façade of class room facing Road

		so that swift actions could be taken in case of malfunction of unmanned facilities	
	•	For all unmanned SPSs, a remote monitor system connecting SPSs with the control station through telemetry system should be provided	N/A
	•	An alarm should be installed to signal emergency high water level in the wet well at all SPSs; and	N/A
	•	Standby pumps should be provided at all SPSs to ensure smooth operation of the SPS during maintenance of the duty pumps;	N/A
	•	Dual power supply or emergency generator should be provided at all the SPSs to secure electrical power supply;	N/A
S8.8	The fo	llowing mitigation measures are proposed to be incorporated in the design of the SPS at KTD, including:	
Constru	ction Wa	ter Quality	
S7.8	Installa	ation of retractable roof or other equivalent measures	N/A
	(iv)	EFTS depot	N/A
	(iii)	Tunnel Ventilation Shaft	N/A
	(ii)	ESS	N/A
	(i)	SPS	N/A
S7.8	All the	ventilation fans installed in the below will be provided with silencers or acoustics treatment.	
		noise impacts from the slip road	
		alternative mitigation measures and at-source mitigation measures for the surrounding new local roads to minimise the potential traffic	
S7.8	(i)	avoid any sensitive facades with openable window facing the slip road connecting Prince Edward Road East and San Po Kong or other	٨
		less than 55m away from To Kwa Wan Road to no more than 25m above ground	
	(ii)	provision of 17.5m high noise tolerant building fronting To Kwa Wan Road and restrict the height of the residential block(s) located at	N/A
S7.8	(i)	avoid any sensitive facades with openable window facing the existing To Kwa Wan Road or	N/A
		provide the facades with openable window.	
	(ii)	for the sensitive facades facing the To Kwa Wan direction, either setback the facades by about 5m to the northeast direction or do not	N/A
		class room facing Road L2 and L4; and	
S7.8	(i)	avoid any sensitive façades with openable window facing the existing Kowloon City Road network; and Avoid the sensitive façade of	N/A
S7.8	Setbac	k of building about 35m to the northwest direction at 1L3 and 5m at Site 1L2.	N/A
	(ii)	Setback of building about 5m from site boundary.	N/A
S7.8	(i)	Provision of low noise surfacing in a section of Road L4 before occupation of Site 111; and	N/A

S8.8	Construction Phase	
	Marine-based Construction	
	Capital and Maintenance Dredging for Cruise Terminal	
	Mitigation measures for construction of the proposed cruise terminal should follow those recommended in the approved EIA for CT Dredging.	N/A
S8.8	Fireboat Berth, Runway Opening and Road T2	
	Silt curtains should be deployed around the close grab dredger to minimize release of sediment and other contaminants for any dredging and filling activities in open water.	N/A
S8.8	Dredging at and near the seawall area for construction of the public landing steps cum fireboat berth should be carried out at a maximum production	N/A
	rate of 1,000m ³ per day using one grab dredger.	
S8.8	The proposed construction method for runway opening should adopt an approach where the existing seawall at the runway will not be removed until completion of all excavation and dredging works for demolition of the runway. Thus, excavation of bulk fill and majority of the dredging works will be carried out behind the existing seawall, and the sediment plume can be effectively contained within the works area. As there is likely some accumulation of sediments alongside the runway, there will be a need to dredge the existing seabed after completion of all the demolition works.	N/A
	Dredging alongside the 600m opening should be carried out at a maximum production rate of 2,000m ³ per day using one grab dredger.	
8.8	Dredging for Road T2 should be conducted at a maximum rate of 8,000m ³ per day (using four grab dredgers) whereas the sand filling should be	N/A
	conducted at a maximum rate of 2,000m3 per day (using two grab dredgers).	
8.8	Silt screens shall be applied to seawater intakes at WSD seawater intake.	N/A

S8.8 Land-based Construction Construction Runoff 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: use of sediment traps adequate maintenance of drainage systems to prevent flooding and overflow S8.8 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 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 provided with adequately designed perimeter channel and pre-treatment 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 watercoarses, 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. </th <th>^ ^</th>	^ ^
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S8.8 Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50 m ³ should be covered with tarpaulin or	٨
similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any	
drainage system.	
S8.8 Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction	٨
materials or debris being washed into the drainage system and storm runoff being directed into foul sewers.	
S8.8 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 summarized in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty	۸

Appendix K – S	Summary of Imp	olementation	Schedule of I	Mitigation N	Measures for	Construction Phase

	surface runoff during storm events.	
S8.8	Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water	N/A(1)
30.0		N/A(1)
	drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	
S8.8	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	٨
	roads. An adequately designed and located wheel washing bay should be provided at every site exit, and wash-water should have sand and silt	
	settled 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 wheel-wash 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.	
S8.8	Drainage	
	It is recommended that on-site drainage system should be installed prior to the commencement of other construction activities. Sediment traps	٨
	should be installed in order to minimise the sediment loading of the effluent prior to discharge into foul sewers. There should be no direct discharge	
	of effluent from the site into the sea	
S8.8	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled	٨
	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.	
S8.8	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	٨
	storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters of the Victoria Harbour WCZ.	
S8.8	Sewage Effluent	
	Construction work force sewage discharges on site are expected to be connected to the existing trunk sewer or sewage treatment facilities. The	٨
	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 should be provided by a licensed contractor to serve the large number of construction workers over the construction site. The	
	Contractor should also be responsible for waste disposal and maintenance practices.	

S8.8	Stormwater Discharges	
50.0		
	Minimum distances of 100 m should be maintained between the existing or planned stormwater discharges and the existing or planned seawater	۸
	intakes	
S8.8	Debris and Litter	
	In order to maintain water quality in acceptable conditions with regard to aesthetic quality, contractors should be required, under conditions of	۸
	contract, to ensure that site management is optimised and that disposal of any solid materials, litter or wastes to marine waters does not occur	
S8.8	Construction Works at or in Close Proximity of Storm Culvert or Seafront	
	The proposed works should preferably be carried out within the dry season where the flow in the drainage channel /storm culvert/ nullah is low.	۸
S8.8	The use of less or smaller construction plants may be specified to reduce the disturbance to the bottom sediment at the drainage channel /storm	٨
	culvert / nullah.	
S8.8	Temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be	٨
	located well away from any water courses during carrying out of the construction works	
S8.8	Stockpiling of construction materials and dusty materials should be covered and located away from any water courses.	۸
S8.8	Construction debris and spoil should be covered up and/or disposed of as soon as possible to avoid being washed into the nearby water receivers.	۸
S8.8	Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the waterfront, where practicable.	۸
S8.8	Mitigation measures to control site runoff from entering the nearby water environment should be implemented to minimize water quality impacts.	۸
	Surface channels should be provided along the edge of the waterfront within the work sites to intercept the runoff.	
S8.8	Construction effluent, site run-off and sewage should be properly collected and/or treated.	٨
S8.8	Any works site inside the storm water courses should be temporarily isolated, such as by placing of sandbags or silt curtains with lead edge at	N/A
	bottom and properly supported props to prevent adverse impact on the storm water quality.	
S8.8	Silt curtain may be installed around the construction activities at the seafront to minimize the potential impacts due to accidental spillage of	N/A
	construction materials.	
S8.8	Proper shoring may need to be erected in order to prevent soil/mud from slipping into the storm culvert/drainage channel/sea.	N/A

S8.8	Supervisory staff should be assigned to station on site to closely supervise and monitor the works	٨
S8.8	Marine water quality monitoring and audit programme shall be implemented for the proposed sediment treatment operation.	N/A
Constru	action Waste Management	
S9.5	Good Site Practices	
	It is not anticipated that adverse waste management related impacts would arise, provided that good site practices are adhered to. Recommendations	
	for good site practices during the dredging activities include:	
	• Nomination of an approved person, such as a site manager, be responsible for good site practices, arrangements for collection and effective	٨
	disposal to an appropriate facility, of all wastes generated at the site.	
	• Training of site personnel in proper waste management and chemical waste handling procedures.	٨
	• Provision of sufficient waste disposal points and regular collection for disposal.	٨
	• Appropriate measure to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting	٨
	wastes in enclosed containers.	
	• A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites).	٨
S9.5	Waste Reduction Measures	
	Good management and control can prevent the generation of a significant amount of waste. Waste reduction is best achieved at the planning and	
	design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include:	
	• Sort C&D waste from demolition of the remaining structures to recover recyclable portions such as metals	٨
	• Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and	٨
	their proper disposal	
	• Encourage collection of aluminium cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated	٨
	from other general refuse generated by the work force	
	Any unused chemicals or those with remaining functional capacity should be recycled	٨
	• Proper storage and site practices to minimise the potential for damage or contamination of construction materials	٨

S9.5	Dredged Marine Sediment	
	The basic requirements and procedures for dredged mud disposal are specified under the ETWB TCW No. 34/2002. The management of the	N/A
	dredging, use and disposal of marine mud is monitored by the MFC, while the licensing of marine dumping is required under the Dumping at Sea	
	Ordinance and is the responsibility of the Director of Environmental Protection (DEP)	
S9.5	The dredged marine sediments would be loaded onto barges and transported to the designated disposal sites allocated by the MFC depending on	N/A
	their level of contamination. Sediment classified as Category L would be suitable for Type 1 - Open Sea Disposal. Contaminated sediment would	
	require either Type 1 - Open Sea Disposal (Dedicated Sites), Type 2 - Confined Marine Disposal, or Type 3 - Special Treatment / Disposal and must	
	be dredged and transported with great care in accordance with ETWB TCW No. 34/2002. Subject to the final allocation of the disposal sites by	
	MFC, the dredged contaminated sediment must be effectively isolated from the environment and disposed properly at the designated disposal site	
S9.5	It will be the responsibility of the contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged	
	have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report	
	to the DEP, prior to the dredging contract being tendered. The contractor for the dredging works should apply for allocation of marine disposal sites	
	and all necessary permits from relevant authorities for the disposal of dredged sediment. During transportation and disposal of the dredged marine	
	sediments requiring Type 1, Type 2, or Type 3 disposal, the following measures should be taken to minimise potential impacts on water quality:	
	• Bottom opening of barges should be fitted with tight fitting seals to prevent leakage of material. Excess material should be cleaned from the	N/A
	decks and exposed fittings of barges and hopper dredgers before the vessel is moved	
	• Monitoring of the barge loading should be conducted to ensure that loss of material does not take place during transportation. Transport	N/A
	barges or vessels should be equipped with automatic selfmonitoring devices as required under the Dumping at Sea Ordinance and as	
	specified by the DEP	
	• Barges or hopper barges should not be filled to a level that would cause the overflow of materials or sediment laden water during loading or	N/A
	transportation	
S9.5	Construction and Demolition Material	
	Mitigation measures and good site practices should be incorporated into contract document to control potential environmental impact from handling	
	and transportation of C&D material. The mitigation measures include:	
	• Where it is unavoidable to have transient stockpiles of C&D material within the Project work site pending collection for disposal, the	٨

	transient stockpiles should be located away from waterfront or storm drains as far as possible	
	• Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric	٨
	• Skip hoist for material transport should be totally enclosed by impervious sheeting	٨
	• Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site	۸
	• The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with	٨
	concrete, bituminous materials or hardcores	
	• The load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure	۸
	dust materials do not leak from the vehicle	
	• All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials	۸
	wet	
	• The height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation	٨
	from unloading	
	When delivering inert C&D material to public fill reception facilities, the material should consist entirely of inert construction waste and of size less	۸
	than 250mm or other sizes as agreed with the Secretary of the Public Fill Committee. In order to monitor the disposal of the surplus C&D material	
	at the designed public fill reception facility and to control fly tipping, a trip-ticket system as stipulated in the ETWB TCW No. 31/2004 "Trip Ticket	
	System for Disposal of Construction and Demolition Materials" should be included as one of the contractual requirements and implemented by an	
	Environmental Team undertaking the Environmental Monitoring and Audit work. An Independent Environmental Checker should be responsible for	
	auditing the results of the system.	
S9.5	Chemical Waste	
	After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on	۸
	the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals should be collected by a licensed collector for disposal at the CWTF or	
	other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation	

89.5	General	Refuse	
	General the contract and cove	^	
	or leachi	ng into the marine environment, or creating odour nuisance or pest and vermin problem	
Constru	ction Land		
S13.9	CM1	All existing trees should be carefully protected during construction.	^
	CM2	Trees unavoidably affected by the works should be transplanted where practical. Detailed transplanting proposal will be submitted to	^
		relevant government departments for approval in accordance with ETWBC 2/2004 and 3/2006. Final locations of transplanted trees	
		should be agreed prior to commencement of the work.	
	CM3	Control of night-time lighting.	N/A(1)
	CM4	Erection of decorative screen hoarding.	٨

Remarks:

٨	Compliance of mitigation measure			
*	Recommendations were made during site audits but improved/rectified by the Contractor			
#	Recommendations were made during site audits but has not yet been improved/rectified by the Contractor			
•	Non-compliance but rectified by the Contractor			
X	Non-compliance of mitigation measure			
N/A	Not Applicable at this stage			
N/A(1)	Not observed			

APPENDIX L SUMMARIES OF ENVIRONMENTAL COMPLAINT, WARNING, SUMMON AND NOTIFICATION OF SUCCESSFUL PROSECUTION

Appendix L – Summary of environmental complaint, warning, summon and notification of successful prosecution

EPD Complaint Ref No.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
17-34438	Dakota Drive and Olympic Avenue	23 October 2017	The complainant concerned about the dust emission when vehicle running on the dry surface outside Dakota Drive and Olympic Avenue. In addition, vehicles were not clear enough before leaving the construction site.	 In accordance with the information gathered in the investigation, construction activities were conducted with proper mitigation measures to minimize the dust impact arise from the construction site to the vicinity of this Project. Regular water spraying was provided to haul roads and unpaved areas within the site areas to reduce the dust impact arise from the construction site to the vicinity of this Project. The Contractor had also ensured vehicles and plants were wheel washed to be cleaned of mud and debris before leaving the construction site area. Therefore, the complaint is considered as non-project related. The following recommendations were made to further enhance the mitigation measures: Where practicable, to provide sheltered area on the top and three sides for stockpiles of dusty materials, or perform frequent water spraying so as to maintain the entire surface wet; Frequent checking and repair the gaps or broken tarpaulin sheets; and To provide a hard-surfaced road between any cleaning facility and the public Road 	Closed

Complaint Log

Remarks: No complaint was received in the reporting month.

Contract No. KLN/2016/04 Environmental Monitoring Works for Contract No. KL/2015/02 Kai Tak Development – Stage 5A Infrastructure at Former North Apron Area

Appendix L – Summary of environmental complaint, warning, summon and notification of successful prosecution

Log Ref.Received DateDetails of Warning / Summons and Successful ProsecutionsInvestigation/Mitigation ActionStatusN/AN/AN/AN/AN/A

Warnings / Summons and Successful Prosecutions received

Remarks: No warning/summon and prosecution was received in the reporting month.

APPENDIX M SUMMARY OF WASTE GENERATION AND DISPOSAL RECORDS

Department:	CEDD
Contract No .:	KL/2015/02
Project :	Kai Tak Development - Stage 5A Infrastructure at Former North Apron Area



Monthly Summary Waste Flow Table for 2022

					J	•			I	As at 3 May 202	22
	Quantities of Inert C & D Materials Generated Monthly						Quantities of C & D Wastes Generated Monthly				
Month	Total Quantity Generated	and Large Broken	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 '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	0	0	0	0	0	0	0	0	0	0	0.014
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	0.007
May June											
Sub-total	68.229	0	0	0.406	68.229	0	0	0	0	0	2.737
July Aug Sept Oct Nov Dec											
Total	68.229	0	0	0.406	68.229	0	0	0	0	0	2.737

Forecast of Total Quantities of C&D Materials to be Generated from the Contract*										
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 '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
67	0	0	1	67	0	0	0	0	0	2.5

Notes: (1) The performance targets 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 forcast of the total amount of C&D materials exected to be generated from the Works, together with a

braskdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or excreeding 50,00 m³. (PS Cleuse 25.02A(7) refers).

APPENDIX N CONSTRUCTION PROGRAMME

KL/2015/02 Construction Programme

•									
			2016	2017	2018	2019	2020	2021	2022
Works	Commence	Finish	9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12 1	2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12	1 2 3 4 5 6 7 8 9 10 11 12
Subways Construction	Dec-16	Jun-22							
Road Works (D1 and L7)	Feb-19	Jun-21	_						
Landscape	May-21	Aug-21							

FUGRO TECHNICAL SERVICES LIMITED

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, N.T., Hong Kong.

Tel : +852 2450 8233 Fax : +852 2450 6138 E-mail : matlab@fugro.com Website : www.fugro.com



Appendix C

Monthly EM&A Report For Contract No. ED/2018/01 Kai Tak Development – Stage 4 infrastructure at the former runway and south apron

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Environmental Monitoring and Audit Report

for

Contract No. ED/2018/01 –

Kai Tak Development – Stage 4 infrastructure at the former runway and south apron

Contract No.: EDO 15/2018

April 2022

(Version 1.0)

Certified By:	pm.
	(Environmental Team Leader)



Ref.: CEDKTDS4EM00_0_0227L.22

13 May 2022

By Post and Email

AECOM Asia Company Limited 12/F, Grand Central Plaza, Tower 2 138 Shatin Rural Committee Road Shatin, Hong Kong

Attention: Mr. Clive Cheng

Dear Sir,

Re: Contract No. ED/2018/01 – Kai Tak Development Stage 4 Infrastructure at the Former Runway and South Apron

Monthly EM&A Report for April 2022

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for April 2022 (Version 1.0) certified by the ET Leader and provided to us via email on 13 May 2022.

Please be informed that we have no adverse comment on the captioned submission. We hereby verify the captioned submission in accordance with Condition 3.3 of EP-337/2009 and Condition 3.2 of EP-445/2013/A.

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

Yours faithfully, For and on behalf of Ramboll Hong Kong Limited

c.c.

Y H Hui Independent Environmental Checker

> CEDD Ka Shing Penta-Ocean

Attn.: Mr. Alex Wong Attn.: Mr. Chan Pang Attn.: Mr. Daniel Ho Fax: 2739 0076 By email Fax: 2572 4080

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Table of Content

Page

EXECUT	ΓΙVE SUMMARY	1
	Breaches of Action and Limit Levels	1
	Complaint log	2
	Notifications of summons and successful prosecutions	2
	Report changes	3
	Key construction works in the reporting month	3
	Future key issues	4
1.	INTRODUCTION	5
	Project Background	5
	Project Organization	6
	Works Area and Construction Programme	6
	Construction works undertaken during reporting month	7
	Submission Status under the Environmental Permits	7
2.	AIR QUALITY MONITORING	9
2.	AIR QUALITY MONITORING Monitoring Requirements	
2.		9
2.	Monitoring Requirements	9 9
2.	Monitoring Requirements	9 9 9
2.	Monitoring Requirements Monitoring Locations Monitoring Parameters, Frequency and Duration	9 9 9 10
2.	Monitoring Requirements Monitoring Locations Monitoring Parameters, Frequency and Duration Monitoring Equipment	9 9 9 10 11
2.	Monitoring Requirements Monitoring Locations Monitoring Parameters, Frequency and Duration Monitoring Equipment. Monitoring Methodology and QA/QC Procedure	9 9 10 11 13
2.	Monitoring Requirements Monitoring Locations Monitoring Parameters, Frequency and Duration Monitoring Equipment Monitoring Methodology and QA/QC Procedure Wind Data Monitoring	9 9 10 11 13 13
2. 3.	Monitoring Requirements Monitoring Locations Monitoring Parameters, Frequency and Duration Monitoring Equipment Monitoring Methodology and QA/QC Procedure Wind Data Monitoring Action and Limit Levels	9 9 10 11 13 13 14
	Monitoring Requirements Monitoring Locations Monitoring Parameters, Frequency and Duration Monitoring Equipment Monitoring Methodology and QA/QC Procedure Wind Data Monitoring Action and Limit Levels Impact Air Quality Monitoring results	9 9 10 11 13 13 14 16
	Monitoring Requirements Monitoring Locations Monitoring Parameters, Frequency and Duration Monitoring Equipment Monitoring Methodology and QA/QC Procedure Wind Data Monitoring Action and Limit Levels Impact Air Quality Monitoring results NOISE MONITORING	9 9 10 11 13 13 14 16 16

	Monitoring Equipment	17
	Monitoring Methodology and QA/QC Procedure	17
	Maintenance and Calibration	
	Action and Limit Levels	
	Impact Noise Monitoring results	19
4.	COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS	
5.	LANDSCAPE AND VISUAL MONITORING	23
	Results and Observations	23
6.	ENVIRONMENTAL SITE INSPECTION AND AUDIT	23
	Site Inspection	23
	Status of Waste Management	24
	Status of Environmental Licenses, Notification and Permits	25
	Implementation Status of Environmental Mitigation Measures	25
	Environmental Complaint and Non-compliance	
	Notifications of summons and successful prosecutions	
7.	FUTURE KEY ISSUES	
	Construction Programme in the coming month	
	Environmental Site Inspection and Monitoring Schedule for next month	
8.	CONCLUSIONS	

List of Tables

Table I	Non-compliance Record in	the Reporting Month
---------	--------------------------	---------------------

- Table II
 Summary of complaints in the Reporting Month
- Table III
 Summary of summons and successful prosecutions in the Reporting Month
- Table IV
 Summary of future key issues and potential impact in the coming month
- Table 1.1
 Contact Information of Key Personnel
- Table 1.2Major activities of the Project during reporting month
- Table 1.3Summary of Status of Required Submission of EPs

- Table 2.1
 Locations of Air Quality Monitoring Stations
- Table 2.2
 Air Quality Monitoring Parameters, Frequency and Duration
- Table 2.3Air Quality Monitoring Equipment
- Table 2.4Action and Limit Levels of 24-hour average TSP for Construction Dust
Monitoring
- Table 2.5Action and Limit Levels of 1-hour average TSP for Construction Dust
Monitoring
- Table 2.6Summary of 24-hour average TSP Monitoring Data during the reporting month
- Table 2.7
 Summary of 1-hour average TSP Monitoring Data during the reporting month
- Table 3.1
 Locations of Noise Monitoring Stations
- Table 3.2
 Noise Monitoring Parameters, Frequency and Duration
- Table 3.3Noise Monitoring Equipment
- Table 3.4
 Baseline Noise Level and Action and Limit Levels for Construction Noise

 Monitoring
- Table 3.5
 Summary of Noise Monitoring Data during the reporting month
- Table 4.1
 Comparison of 24-hour average TSP Monitoring Data with EIA predictions
- Table 4.2
 Comparison of 1-hour average TSP Monitoring Data with EIA predictions
- Table 4.3
 Comparison of Noise Monitoring Data with EIA predictions
- Table 5.1
 Summary of observations of Landscape and Visual impact during the reporting month
- Table 6.1
 Summary of site inspections observations during the reporting month
- Table 6.2
 Summary of Environmental Licenses, Notifications and Permits
- Table 6.3Summary of complaints in the Reporting Month
- Table 6.4Summary of summons and successful prosecutions in the Reporting Month
- Table 7.1
 Summary of future key issues and potential impact in the coming month

List of Figure

- Figure 1 Proposed works of Contract No. ED/2018/01
- Figure 2 Proposed Bus Stop And Associated Noise Barrier At Road D3A

- Figure 3 Future Pedestrian Connection Between Landscaped Deck And Private Developments
- Figure 4 Site Layout Plan
- Figure 5 Air Quality Monitoring Stations
- Figure 6 Noise Monitoring Stations

List of Appendices

- Appendix A Organization Chart of EM&A Team
- Appendix B Construction Programme
- Appendix C Environmental monitoring schedules
- Appendix D Photographic records
- Appendix E Calibration certificates, catalogue of air quality monitoring equipment
- Appendix F Weather information
- Appendix G 24-hr TSP monitoring results and graphical presentation
- Appendix H 1-hr TSP monitoring results and graphical presentation
- Appendix I Event and Action Plan for air quality
- Appendix J Calibration certificates, catalogue of noise monitoring equipment
- Appendix K Noise monitoring results and graphical presentation
- Appendix L Event and Action Plan for noise
- Appendix M Event and Action Plan for Landscape and Visual Impact
- Appendix N Waste Flow Table
- Appendix O Environmental Mitigation Implementation Schedule (EMIS)
- Appendix P Summaries of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

EXECUTIVE SUMMARY

This is the 28th Monthly Environmental Monitoring & Audit (EM&A) report which summaries the findings of the EM&A Programme during the reporting period from 1 to 30 April 2022.

Breaches of Action and Limit Levels

- 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. Due to the outbreak of COVID 19, The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), one of the impact monitoring stations, did not open to public starting from 23 February 2022 and Environmental Team could not conduct impact monitoring on roof top. 1-hour TSP monitoring was conducted on the ground floor outside AM4(A) with facing to the Project Site because of the access limitation in the reporting month.
- 2) 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. Due to the outbreak of COVID 19, The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), one of the impact monitoring stations, did not open to public starting from 23 February 2022 and Environmental Team could not conduct impact monitoring on roof top. No 24-hour TSP monitoring was conducted at AM4(A) because of the assess limitation in the reporting month.
- 3) Construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. Due to the outbreak of COVID 19, The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), one of the impact monitoring stations, did not open to public starting from 23 February 2022 and Environmental Team could not conduct impact monitoring on roof top. Impact monitoring was conducted on the ground floor outside M11 with facing to the Project Site because of the access limitation in the reporting month.
- 4) Summary of the non-compliance in the reporting month for the Project is tabulated in Table I.

Donomotor	No. of Ex	Action Taken	
Parameter	Action Level	Limit Level	Action Taken
1-hr TSP	0	0	N/A
24-hr TSP	0	0	N/A

 Table I
 Non-compliance Record in the Reporting Month

Donomotor	No. of Ex	Action Talson	
Parameter	Action Level	Limit Level	Action Taken
Construction noise	0	0	N/A

Complaint log

5) No complaint was received in the reporting month. Summary of complaints in the reporting month is tabulated in Table II.

Table II Summary of complaints in the Reporting Month

Date of complaint received	Date of complaint	Description of complaint	Investigation / Recommendations / Action take	Close-out date / Status
No complaint was received in the reporting month.	N/A	N/A	N/A	N/A

Notifications of summons and successful prosecutions

6) No notification of summons and successful prosecutions was received in the reporting month. Summary of summons and successful prosecutions in the reporting month is tabulated in Table III.

Table III Summary o	f summons and suc	cessful prosecutions	in the Reporting Month

Date of receiving notification of summons or prosecutions	Date of event	Description of event	Action take	Close-out date / Status
No notification of summons	NA	NA	NA	NA
and successful				
prosecutions were				

Date of receiving notification of summons or prosecutions	Date of event	Description of event	Action take	Close-out date / Status
received in the reporting month.				

Report changes

7) There was no reporting change in the reporting month.

Key construction works in the reporting month

- 8) Major construction activities undertake during the reporting month included:
 - North Approach Ramp Construction of utilities trough
 - Bridge D3 Construction of Bridge Deck
 - North Depressed Road Construction of wall & top slab
 - Underpass Construction of walls and roof slab
 - South Approach Ramp Construction of Permanent Structure
 - District Cooling System seawater intake box culvert backfilling works, reinstatement of the seawall and backfilling works
 - Lift 3 Construction of linking platform
 - Lift 4 Construction of linking platform
 - South Depressed Road Installation of ELS system / construction of permanent works
 - Rising Main and Water Pipe Laying of sewage
 - Landscaped Deck Construction of pile caps and installation of columns
 - Transformer Room Construction of permanent structure
 - Shing Kai Road Modification works
 - Lift 1 & 2 Installation of ELS system
 - CLP substation Construction of base slab, wall & intermediate slab
 - Noise Barrier Remaining works, Bus lay-by construction
 - Seawater Intake Box Culvert of Saltwater Pumping Station –Installation of sheetpiles and ELS system

Future key issues

9) The future key issues and potential impact in the coming month are given in Table IV.

Table IV Summary of future key issues and potential impact in the coming month

Future key issues in the coming month	Potential impact
North Approach Ramp – Construction of utilities trough	Noise and Air Quality, Chemical and Waste Management
Bridge D3 – Construction of Bridge Deck and abutments, Dismantle of portal frame	Noise and Air Quality, Landscape and Visual
North Depressed Road – Construction of wall & top slab	Noise and Air Quality, Chemical and Waste Management
Underpass – Construction of walls and roof slab	Noise and Air Quality, Chemical and Waste Management
South Approach Ramp – Construction of Permanent Structure	Noise and Air Quality, Chemical and Waste Management
District Cooling System seawater intake box culvert – Installation of precast units and backfilling works, reinstatement of the seawall and backfilling works	Noise, Air and Water Quality
Lift 4 – Construction of linking platform	Noise and Air Quality, Chemical and Waste Management
South Depressed Road – Installation of ELS system / construction of permanent works	Noise and Air Quality, Chemical and Waste Management
Rising Main and Water Pipe – Laying of sewage	Noise, Air and Water Quality
Landscaped Deck – Construction of pile caps and installation of columns	Noise, Air and Water Quality
Transformer Room – Construction of permanent structure	Noise, Air and Water Quality
Shing Kai Road – Modification works	Noise, Air and Water Quality
Lift 1 & 2 – Installation of ELS system	Noise and Air Quality, Chemical and Waste Management
CLP substation – Construction of Permanent Structure	Noise, Air and Water Quality
Noise Barrier – Remaining works, Bus lay-by construction	Noise, Air and Water Quality
Seawater Intake Box Culvert of Saltwater Pumping Station – Installation of sheetpiles and ELS system	Noise, Air and Water Quality

1. INTRODUCTION

Project Background

- 1.1 The Kai Tak Development (KTD) is located in the south-eastern part of Kowloon Peninsula of the HKSAR, comprising the apron and runway areas of the former Kai Tak Airport and existing waterfront areas at To Kwa Wan, Ma Tau Kok, Kowloon Bay, Kwun Tong and Cha Kwo Ling.
- 1.2 Contract No. ED/2018/01 Kai Tak Development stage 4 infrastructure at the former runway and south apron (The Project), comprises mainly the design and construction of a dual two- lane Road D3 (Metro Park Section), a single 2-lane Road L12d, a salt water pumping station, a sewage pumping station, landscaped deck and promenade above and adjoining Road D3 (Metro Park Section) respectively, some remaining road works at Road L14, noise barrier at Road D3A, and other associated works at the former runway and south apron. The proposed works are shown in Figure 1 and Figure 2. During the course of the Contract No. ED/2018/01, there may be modification of noise barriers in association with the construction of footbridges connecting to the landscaped deck of Road D3A by developers of adjacent lands (Figure 3). The proposed works and site boundary are shown in Figure 4.
- 1.3 Civil Engineering and Development Department (CEDD) had completed an Environmental Impact Assessment (EIA) and is the Permit Holder.
- 1.4 The construction work under ED/2018/01 comprises the EM&A Manuals (EIA Register Nos. AEIAR-130/2009 for Kai Tak Development and EIA Register Nos. AEIAR-170/2013 for Roads D3A and D4A) and Environmental Permit (EP) Nos. EP-337/2009, EP-445/2013 and Variation to the EP (VEP) No. EP-445/2013/A.
- 1.5 Air quality and noise monitoring has been proposed in the EM&A Manual with EIA Register Nos. AEIAR-130/2009 for Kai Tak Development while no air quality and noise monitoring are proposed in EM&A Manual with EIA Register Nos. AEIAR-170/2013 for Roads D3A and D4A.

Project Organization

1.6 The project organization chart and with respect to the EM&A programme is shown in Appendix A. Information of key personnel contact names and telephone numbers are summarized in Table 1.1.

Party	Role	Contact Person	Position	Phone No.	Fax No.
Civil Engineering and	Project	Mr. Alex Wong	Senior Engineer	3579 2452	2739 0076
Development Department (CEDD)	Proponent	Ms. Chan Ka Yan	Engineer	3579 2458	2739 0076
AECOM Asia Co. Ltd. (AECOM)	Supervisor (act as Engineers' Representative (ER) listed in EM&A Manual)	Mr. Clive Cheng	CRE	3911 4201	3911 4288
Ramboll Hong Kong Limited (Ramboll)	Independent Environmental Checker (IEC)	Mr. Y H Hui	IEC	3465 2850	3465 2899
Ka Shing Management Consultant Limited (Ka Shing)	Environmental Team (ET)	Mr. Chan Pang	ET Leader	6082 2973	2120 7752
Penta-Ocean Construction Co., Ltd. (Penta-Ocean)	Contractor	Mr. Lulu Mar	Environmental Officer	6845 0626	3465 8898

Table 1.1 Contact Information of Key Personnel

Works Area and Construction Programme

1.7 The construction works commenced on 20 January 2020. The construction programme of the Project is given in Appendix B.

Construction works undertaken during reporting month

1.8 Major construction works of the Project in the reporting month are summarized in Table 1.2:

North Approach Ramp – Construction of utilities trough	Bridge D3 - Construction of Bridge Deck	
North Depressed Road – Construction of wall & top slab	Underpass – Construction of walls and roof slab	
South Approach Ramp – Construction of Permanent Structure	District Cooling System seawater intake box culvert – Installation of precast units and backfilling works, reinstatement of the seawall and backfilling works	
Rising Main and Water Pipe – Laying of sewage	Lift 3 – Construction of linking platform	
Lift 4 – Construction of Wall and Roof Slab / Installation of Steelworks and Glass Panel	South Depressed Road – Installation of ELS system / construction of permanent works	
Landscaped Deck – Construction of pile caps and installation of columns	Transformer Room – Installation of ELS system and construction of permanent structure	
Road D3 Junction – Road works	Lift 1 &2 – Installation of ELS system	

Table 1.2 Major activities of the Project during reporting month

Submission Status under the Environmental Permits

1.9 The status of required submission under Environmental Permit (EP) conditions under EP-337/2009, EP-445/2013 and Variation to the EP (VEP) No. EP-445/2013/A are summarized in Table 1.3.

EP Condition EP-337/2009	EP Condition EP-445/2013	EP Condition EP-445/2013/A	Submission	Submission Date
Condition 1.11	Condition 1.12	Condition 1.12	NotificationofCommencement Date ofConstructionOftheProject	6 Jan 2020
Condition 2.3	Condition 2.3	Condition 2.3	Management Organization of Main Construction Companies	9 Sep 2019
Condition 2.3	Condition 2.3	Condition 2.3	Updated Management Organization of Main Construction Companies	17 Aug 2021
Condition 2.4	Condition 2.4	Condition 2.4	Design Drawings	6 Jan 2020
Condition 2.11	Condition 2.5	Condition 2.5	Landscape Mitigation	13 Nov 2020

Table 1.3 Summary of Status of Required Submission of EPs

EP Condition EP-337/2009	EP Condition EP-445/2013	EP Condition EP-445/2013/A	Submission	Submission Date
			Plans	
Condition 2.1	Condition 2.5	Condition 2.5	Landscape Mitigation Plans (Revision 2)	18 May 2021
Condition 3.2	NA	NA	Baseline Monitoring Report	2 Jan 2020
Condition 3.2	NA	NA	Revised Baseline Monitoring Report	28 Mar 2020
Condition 3.3	Condition 3.2	Condition 3.2	Monthly EM&A Report (March 2022)	13 Apr 2022

2. AIR QUALITY MONITORING

Monitoring Requirements

2.1 In accordance with EM&A Manuals (EIA Register Nos. AEIAR-130/2009), impact air quality monitoring shall be carried out during the construction phase of the Project. For regular impact monitoring, a sampling frequency of at least once in every six says will be strictly observed at all of the monitoring stations for 24-hour TSP. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six days will be undertaken when the highest dust impact occurs.

Monitoring Locations

2.2 Three designated monitoring stations were selected for air quality monitoring programme. Impact air quality monitoring was conducted at three air quality monitoring stations in the reporting month. Table 2.1 describes the air quality monitoring locations, which are also depicted in Figure 5.

	<u> </u>
Air Quality Monitoring Locations for the Project	Location of Measurement
AM3 - Sky Tower	Podium floor near T7
AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop*	Ground Floor*
AM7 – Hong Kong Children's Hospital	Rooftop

Table 2.1 Locations of Air Quality Monitoring Stations

NOTE: * Due to the outbreak of COVID 19, AM4(A) did not open to public starting from 23 February 2022 and ET could not conduct impact monitoring on roof top. 1-hour TSP monitoring was conducted on the ground floor outside AM4(A) with facing to the Project Site while no 24-hr TSP monitoring was conducted because of the access limitation in the reporting month.

Monitoring Parameters, Frequency and Duration

2.3 The air quality monitoring locations and monitoring frequency are listed in Table 2.2.

Air Monitoring Station	Location for Measurement	Parameter	Duration	Frequency
AM3 - Sky Tower	Podium floor near T7			
AM4(A) - The Hong Kong Society for the Blind's Factory cum	Ground Floor*	- 24-hour average TSP	- 24 hours	- Once every 6 days
Sheltered Workshop*		- 1-hour	- 1 hour	- Three times
AM7 - Hong Kong Children's Hospital	Rooftop	average TSP		every 6 days

Table 2.2 Air Quality Monitoring Parameters, Frequency and Duration

NOTE: * Due to the outbreak of COVID 19, AM4(A) did not open to public starting from 23 February 2022 and ET could not conduct impact monitoring on roof top. 1-hour TSP monitoring was conducted on the ground floor outside AM4(A) with facing to the Project Site while no 24-hr TSP monitoring was conducted because of the access limitation in the reporting month.

- 2.4 The monitoring schedule for reporting month and next month is presented in Appendix C.
- 2.5 Photographic records of the impact monitoring setup are shown in Appendix D.

Monitoring Equipment

2.6 24-hour average TSP and 1-hour average TSP levels were measured for impact monitoring. 24-hour average TSP levels were measured by the High Volume Samplers (HVS) and 1-hour average TSP levels were measured by direct reading method to indicate short-term impacts. Wind data monitoring equipment was set up at conspicuous locations for logging wind speed and wind direction near to the dust monitoring locations. Table 2.3 summarizes the equipment to be used in the air quality monitoring.

Equipment	Model	Quantity
HVS Sampler	TE-5170 X c/w of TSP sampling inlet	3
Calibrator	TISCH TE-5025A	1
1-hour TSP Dust Meter	TSI Model AM510 SidePak Personal Aerosol Monitor	2
Wind Anemometer	Davis Vantage Pro2 Weather Station	1

Table 2.3 Air Quality Monitoring Equipment

2.7 High volume samplers (HVS) (TE-5170 X c/w of TSP sampling inlet) comprising with appropriate sampling inlets were employed for 24-hour TSP monitoring. The sampler was 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).

2.8 Calibration certificates, catalogue of equipment are given in Appendix E.

Monitoring Methodology and QA/QC Procedure

24-hour TSP Monitoring

Operating/Analytical Procedures

2.9 Setup criteria of HVS are shown as follows:

- A horizontal platform with appropriate support to secure the samplers against gusty wind was provided.
- No two samplers were placed less than 2m apart.
- The distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protrudes above the sampler.
- A minimum of 2m of separation from walls, parapets and penthouses was set for the rooftop samples.
- A minimum of 2m separation from any supporting structure, measured horizontally was set.
- No furnaces or incineration flues was nearby.
- Airflow around the sampler was unrestricted.
- Any wire fence and gate, to protect the samplers, was not caused any obstruction during monitoring.
- Permission were obtained to setup the samplers and to obtain access to the monitoring stations.
- A secured supply of electricity was provided to operate the samplers.
- 2.10 Prior to the commencement of the dust sampling, the flow rate of the HVS was properly set (between 1.1 m³/min. and 1.7 m³/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- 2.11 For TSP sampling, Glass Fiber Filter Media 8" x 10" have a collection efficiency of > 99 % for particles of 0.3 μm diameter were used.
- 2.12 The power supply was checked to ensure the sampler worked properly and then placed any filter media at the designated air monitoring station.

- 2.13 The filter holding frame was removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- 2.14 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 was sufficient to avoid air leakage at the edges.
- 2.15 The shelter lid was closed and secured with the aluminium strip.
- 2.16 The timer was 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).
- 2.17 After sampling, the filter was removed from the HVS and put into a clean and labeled seal plastic bag to avoid cross contamination. The elapsed time was also be recorded. The sampled filters were sent to the HOKLAS accredited or other internationally accredited laboratory for weighting.

Maintenance/Calibration

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

1-hour TSP Monitoring

Measurement Procedures

- 2.19 The measurement procedures of the 1-hour TSP were conducted in accordance with the Manufacturer's Instruction Manual as follows:
 - Set up the dust meter on a tripod at 1.2m level.

- Turned on the dust meter and check the battery, if too low, change new ones. Pointed the meter to the source area or the planned measurement area.
- The zero calibration of the instrument was conducted before and after each sampling.
- TSP levels were recorded for 1-hour with 5-minute data logging interval.
- Recorded down the general meteorological conditions, Test ID no., start/end time, spot check reading at each sampling location for data processing.
- Recorded any activities that may generate dust during measurement period.

Maintenance/Calibration

2.20 The following maintenance/calibration are required for the direct dust meters:

• To validity the accuracy of dust meter, compare the results measured by dust meter and HVS by direct reading method every 12 months throughout all stages of the air quality monitoring.

Wind Data Monitoring

- 2.21 Wind Anemometer was installed at the roof-top of AM7 Hong Kong Children's Hospital with 10m above ground and clear of constructions or turbulence caused by the buildings.
- 2.22 The wind data was captured by a data logger and the data was downloaded at least once per month for analysis.
- 2.23 The wind data monitoring equipment will be re-calibrated at least once every six months.
- 2.24 Wind direction is divided into 16 sectors of 22.5 degrees each.
- 2.25 Details of weather information during the monitoring period are shown in Appendix F.

Action and Limit Levels

2.26 The Action and Limit Levels of 24-hour average TSP and 1-hour average TSP are summarized in Table 2.4 and Table 2.5 respectively.

Parameter	Air Monitoring Station	Action Level, µg/m ³	Limit Level, µg/m ³
24-hour average TSP	AM3	182	260
	AM4(A)	187	260
	AM7	181	260

Table 2.4 Action and Limit Levels of 24-hour average TSP for Construction Dust Monitoring

Table 2.5 Action and Limit Levels of 1-hour average TSP for Construction Dust Monitoring

Parameter	Air Monitoring Station	Action Level, µg/m ³	Limit Level, µg/m ³
1-hour average TSP	AM3	297	500
	AM4(A)	326	500
	AM7	315	500

Impact Air Quality Monitoring results

- 2.27 Due to the outbreak of COVID 19, The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), one of the impact monitoring stations, did not open to public starting from 23 February 2022 and ET could not conduct impact monitoring on roof top of AM4(A). Because of the access limitation, 1-hour TSP monitoring was conducted on the ground floor outside AM4(A) with facing to the Project Site while no 24-hour TSP monitoring was conducted at AM4(A) in the reporting month.
- 2.28 Impact monitoring results for 24-hour average TSP and 1-hour average TSP levels at the designed air quality monitoring stations are summarized in Table 2.6 and Table 2.7 respectively.

Table 2.6 Summary	of 24-hour average	TSP Monitoring Dat	ta during the r	reporting n	<u>1011 nonth</u>
	Average TSP				

Air Monitoring Station	Average TSP Concentration, µg/m ³	Range, μg/m ³	Action Level, µg/m ³	Limit Level, µg/m ³
AM3	69	27 - 102	182	260
AM4(A)	/	/ _ /	187	260
AM7	70	33 - 110	181	260

Table 2.7 Summary of 1-hour average TSP Monitoring Data during the reporting month

Air Monitoring Station	Average TSP Concentration, µg/m ³	Range, μg/m ³	Action Level, µg/m ³	Limit Level, µg/m ³
AM3	60	32 - 93	297	500
AM4(A)	70	43 - 96	326	500
AM7	56	27 - 86	315	500

- 2.29 There was no Action and Limit Level exceedance of 24-hour average TSP and 1-hour average TSP levels recorded during the reporting month.
- 2.30 Graphical presentation and detailed monitoring results of 24-hour average TSP and 1-hour average TSP levels are shown in Appendix G and Appendix H respectively.
- 2.31 The Event and Action Plan is provided in Appendix I.
- 2.32 Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.

3. NOISE MONITORING

Monitoring Requirements

- 3.1 In accordance with EM&A Manuals (EIA Register Nos. AEIAR-130/2009), impact noise monitoring shall be carried out during the construction phase of the Project.
- 3.2 Regular monitoring, L_{Aeq, 30-minute}, for each station will be on a weekly basis and conduct one set of measurements between 0700 1900 on normal weekdays.
- 3.3 If construction works are extended to include works during 1900 0700 as well as public holidays and Sundays, additional weekly impact monitoring will be carried out during the respective restricted hours periods.

Monitoring Locations

3.4 Two designated monitoring stations were selected for noise monitoring programme. Impact noise monitoring was conducted at two noise monitoring stations in the reporting month. Table 3.1 describes the noise monitoring locations, which are also depicted in Figure 6.

Noise Monitoring Locations for the Project	Location of Measurement
M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop*	Ground Floor (Façade)*
M12 - Hong Kong Children's Hospital	Rooftop (Façade)

Table 3.1 Locations of Noise Monitoring Stations

NOTE: * Due to the outbreak of COVID 19, M11 did not open to public starting from 23 February 2022 and ET could not conduct impact monitoring on roof top. Impact monitoring was conducted on the ground floor outside M11 with facing to the Project Site because of the access limitation in the reporting month.

Monitoring Parameters, Frequency and Duration

3.5 The noise monitoring locations and monitoring frequency are listed in Table 3.2.

Noise Monitoring Station	Location for Measurement	Parameter	Frequency and Duration
M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop*		$L_{Aeq,} L_{A10}$ and L_{A90}	30 - minutes measurement at each monitoring station between 0700 - 1900 hrs on normal weekdays (Monday, to Saturday), at
M12 - Hong Kong Children's Hospital	Rooftop (Façade)		(Monday to Saturday) at frequency of once per week.

Table 3.2 Noise Monitoring Parameters, Frequency and Duration

NOTE: * Due to the outbreak of COVID 19, M11 did not open to public starting from 23 February 2022 and ET could not conduct impact monitoring on roof top. Impact monitoring was conducted on the ground floor outside M11 with facing to the Project Site because of the access limitation in the reporting month.

- 3.6 The monitoring schedule for reporting month and next month is presented in Appendix C.
- 3.7 Photographic records of the monitoring setup are shown in Appendix D.

Monitoring Equipment

3.8 As referred to in the Technical Memorandum (TM) issued under the Noise Control Ordinance (NCO), sound level meters in compliance with the IEC 61672-1 (Type 1) standard [this standard replaced the International Electrotechnical Commission Publications 60651:1979 (Type 1) and 60804:1985 (Type 1)] were used for noise monitoring. Table 3.3 summarizes the equipment to be used in the noise monitoring.

Equipment	Model	Quantity
Sound Level Meter	RION NL52	2
Sound Level Calibrator	RION NC 74	1
Sound Level Calibrator	RION NC 75	1
Air Flowmeter	TSI TA440 Air Velocity	2

Table 3.3 Noise Monitoring Equipment

3.9 Calibration certificates, catalogue of equipment are given in Appendix J.

Monitoring Methodology and QA/QC Procedure

3.10 The noise level measurement was conducted at 1m from the exterior of the nearby noise sensitive receivers building façade and at 1.2m above the ground and facing to the source area or the planned measurement area.

- 3.11 No noise measurement was conducted in the presence of fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. Air flow was measured by air flow meter.
- 3.12 Turned on the sound level meter and check the battery, if too low, change new ones.
- 3.13 Calibration was conducted immediately prior to and after each noise measurement, the accuracy of the sound level meters was checked by using sound calibrator generating 1,000 Hz with 94dB. Measurement data was found to be valid only if the calibration levels from before and after the noise measurement agreed to within 1.0 dB.
- 3.14 Noise level was recorded.
- 3.15 Recorded any activities that may generate noise during measurement period.

Maintenance and Calibration

- 3.16 The microphone head of the sound level meter and calibrator was cleaned with a soft cloth at quarterly intervals.
- 3.17 The sound level meter and sound calibrator were calibrated annually.
- 3.18 Calibration for sound level meter was conducted immediately prior to and following each noise measurement by using sound calibrator generating a known sound pressure level at a known frequency (1,000 Hz with 94dB). Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

Action and Limit Levels

3.19 The Baseline Noise Levels and Action and Limit Levels for construction noise is presented in Table 3.4.

Time Period	Noise Monitoring Station	Baseline Noise Levels, dB (A)	Action Level	Limit Level ^
0700 – 1900 on	M11	68.3	When one documented	75 dB(A)
normal weekdays	M12	61.9	complaint is received.	75 uD(A)

Table 3.4 Baseline Noise Level and Action and Limit Levels for Construction Noise Monitoring

Note: ^ If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

Impact Noise Monitoring results

- 3.20 Due to the outbreak of COVID 19, The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), one of the impact monitoring stations, did not open to public starting from 23 February 2022 and Environmental Team could not conduct impact monitoring on roof top. Impact monitoring was conducted on the ground floor outside M11 with facing to the Project Site because of the access limitation in the reporting month.
- 3.21 Impact noise monitoring results at the designed noise monitoring stations are summarized in Table 3.5 respectively.

Noise Monitoring Station	Measured L _{Aeq, 30-min} , Average, dB(A)	Measured L _{Aeq, 30-min} , Range, dB(A)	Action Level	Limit Level ^
M11	72.3	70.7 - 73.6	When one documented	75
M12	65.9	64.0 - 68.0	complaint is received	dB(A)

Table 3.5 Summary of Noise Monitoring Data during the reporting month

Note: ^ If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

- 3.22 There were no action level exceedance of noise monitoring and limit level exceedance of L_{Aeq} , _{30min} recorded during the reporting month.
- 3.23 Graphical presentation and detailed monitoring results are shown in Appendix K.
- 3.24 The Event and Action Plan is provided in Appendix L.
- 3.25 Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.

4. COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS

4.1 The environmental impacts predictions were given in Agreement No. CE 35/2006(CE) Kai Tak Development Engineering Study cum Design and Construction of Advance Works -Investigation, Design and Construction - Kai Tak Development Environmental Impact Assessment Report, EIA Register Nos. AEIAR-130/2009 for Kai Tak Development (The EIA Report). The EM&A data was compared with the EIA predictions as summarized in Table 4.1 to Table 4.3.

Table 4.1 Comparison of 24-hour average TSP Monitoring Data with EIA predictions

	ASR No. in	24-hour av	lative Maximum verage TSP atration	Measured 24-hr average TSP in
Air Monitoring Station	EIA report	Scenario 1 (Mid 2009 to Mid 2013),	Reporting Month (April 2022) µg/m ³	
		$\mu g/m^3$	Late 2016), µg/m ³	μg/iii
AM3 - Sky Tower	A40^	106	138	27 - 102
AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop*	A43^	123	195	/ _ /
AM7 – Hong Kong Children's Hospital	PA60	NA	NA	33 - 110

Note:

^ Prediction results are given in the Table 3.13 of the EIA report EIA Register Nos. AEIAR-130/2009 for Kai Tak Development.

* Due to the outbreak of COVID 19, AM4(A) did not open to public starting from 23 February 2022 and ET could not conduct impact monitoring on roof top. No 24-hour TSP monitoring was conducted at AM4(A) because of the assess limitation in the reporting month.

Table 4.2 Comparison of 1-hour average TSP Monitoring Data with EIA predictions

were no comparison of 1 nour archage 151 monitoring Data min preateneous					
			lative Maximum erage TSP tration	Measured 1-hr average TSP in	
Air Monitoring Station	ASR No. in EIA report	Scenario 1 (Mid 2009 to	Scenario 2 (Mid 2013 to	Reporting Month (April 2022)	
		Mid 2013), μg/m ³	Late 2016), µg/m ³	$\mu g/m^3$	
AM3 - Sky Tower	A40	217^	247^	32 - 93	
AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop*	A43	283^	409^	43 - 96	
AM7 – Hong Kong Children's Hospital	PA60	NA	NA	27 – 86	

Note:

^ Prediction results are given in the Table 3.13 of the EIA report EIA Register Nos. AEIAR-130/2009 for Kai Tak Development.

NOTE: * Due to the outbreak of COVID 19, AM4(A) did not open to public starting from 23 February 2022 and ET could not conduct impact monitoring on roof top. 1-hour TSP monitoring was conducted on the ground floor outside AM4(A) with facing to the Project Site because of the access limitation in the reporting month.

Noise Monitoring Station	NSR No. in EIA report	Predicted Mitigated Construction Noise Levels during Normal Daytime Working Hour LAeq, 30min, dB(A)	Measured Noise Level in Reporting Month (April 2022) L _{Aeq, 30min} , dB(A)
M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop^	N18	50 - 76*	70.7 – 73.6
M12 - Hong Kong Children's Hospital	PN83, PN84, PN84A	NA	64.0 - 68.0

Table 4.3 Comparison of Noise Monitoring Data with EIA predictions

Note:

* Prediction results are given in the Table 3.20 of the EIA report EIA Register Nos. AEIAR-130/2009 for Kai Tak Development.

^ Due to the outbreak of COVID 19, M11 did not open to public starting from 23 February 2022 and ET could not conduct impact monitoring on roof top. Construction noise monitoring was conducted on the ground floor outside M11 with facing to the Project Site because of the access limitation in the reporting month.

- 4.2 24-hour TSP monitoring results at AM3 were recorded lower than the prediction in the EIA Report. Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results. Due to the outbreak of COVID 19, AM4(A) was closed starting from 23 February 2022 and no 24-hour TSP monitoring at AM4(A).
- 4.3 No prediction in the EIA Report for 24-hour TSP monitoring results at AM7.
- 4.4 1-hour TSP monitoring results at AM3 and AM4(A) were recorded lower than the prediction in the EIA Report. Due to the outbreak of COVID 19, AM4(A) did not open to public starting from 23 February 2022 and ET could not conduct impact monitoring on roof top. 1-hour TSP monitoring was conducted on the ground floor outside AM4(A) with facing to the Project Site in the reporting month. Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.
- 4.5 No prediction in the EIA Report for 1-hour TSP monitoring results at AM7.
- 4.6 Due to the outbreak of COVID 19, M11 did not open to public starting from 23 February 2022 and ET could not conduct impact monitoring on roof top. Impact monitoring was conducted on the ground floor outside M11 with facing to the Project Site in the reporting month. Noise monitoring results at M11 were recorded lower than the prediction in the EIA Report.

Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.

4.7 No prediction in the EIA Report for noise monitoring results at M12.

5. LANDSCAPE AND VISUAL MONITORING

5.1 In accordance with EM&A Manuals (EIA Register Nos. AEIAR-130/2009 and AEIAR-170/2013), Landscape and Visual Monitoring shall be carried out during the construction phase of the Project. Regular impact monitoring will be conducted at least once per week.

Results and Observations

- 5.2 Site inspections were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.
- 5.3 Site inspections were conducted on 7, 14, 21 and 28 April 2022 in the reporting month.
- 5.4 The summaries of site audits are attached in Table 5.1.

Table 5.1 Summary of observations of Landscape and Visual impact during the reporting month

Inspection Date	Key Observations	Recommendations / Actions	Close-out Date / Status
07 April 2022	No	NA	NA
14 April 2022	No	NA	NA
21 April 2022	No	NA	NA
28 April 2022	No	NA	NA

- 5.5 No non-compliance of the landscape and visual impact was recorded in the reporting month.
- 5.6 Should non-compliance of the landscape and visual impact occur, action in accordance with the action plan presented in Appendix M shall be performed.

6. ENVIRONMENTAL SITE INSPECTION AND AUDIT

Site Inspection

- 6.1 Site inspections were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.
- 6.2 Site inspections were conducted on 7, 14, 21 and 28 April 2022 in the reporting month.
- 6.3 The summaries of site audits are attached in Table 6.1.

<u>Table 6.1 Summary of site inspections observations during the reporting month</u>			
Inspection Date	Key Observations	Recommendations / Actions	Close-out Date / Status
07 April 2022	N/A	N/A	N/A
14 April 2022	N/A	N/A	N/A
21 April 2022	Observation: Stockpiles should be fully covered by impermeable sheeting to reduce dust emission.	Action Taken: Open stockpiles were removed.	Closed-out on 30 April 2022
30 April 2022	Observation: The NRMM label of the generator should replace its proper colour.	Action Taken: The NRMM label of the generator have been replaced its proper colour.	Closed-out on 5 May 2022

Table 6.1 Summary of site inspections observations during the reporting month

Status of Waste Management

- 6.4 The amount of wastes generated by the major site activities of the work contracts within the Project during the reporting month is shown in Appendix N.
- 6.5 The Contractor was registered as a chemical waste producer for the Project. The Contractor

was reminded that chemical waste containers should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.

Status of Environmental Licenses, Notification and Permits

6.6 A summary of the relevant permits, licenses and/or notifications on environmental protection for the Project is shown in Table 6.2.

Environmental Licenses, Notifications and Permits	Ref. No.	Valid Form	Valid Till
	EP-337/2009	23 Apr 2009	N/A
Environmental Permit under EIAO	EP-445/2013	3 May 2013	N/A
	EP-445/2013/A	13 Aug 2014	N/A
Construction Dust Notification under APCO	445956	6 June 2019	N/A
Wastewater Discharge License under WPCO	WT00034610-2019	26 Sep 2019	30 Sep 2024
Waste Disposal Billing Account	7034450	28 June 2019	N/A
Registration as a Chemical Waste Producer	5218-286-P3182-03	18 Jul 2019	N/A
Construction Noise Permit	GW-RE0960-21	05 Oct 2021	03 Apr 2022
	GW-RE1054-21	27 Oct 2021	13 Apr 2022
	GW-RE1214-21	06 Dec 2021	01 June 2022
	GW-RE1262-21	30 Dec 2021	11 Jun 2022
	GW-RE1263-21	30 Dec 2021	17 Jun 2022
	GW-RE0206-22	20 Mar2022	19 Sep 2022
	GW-RE0268-22	07 Apr 2022	30 Jun 2022
	GW-RE0309-22	14 Apr 2022	13 Oct 2022

Table 6.2 Summary of Environmental Licenses, Notifications and Permits

Implementation Status of Environmental Mitigation Measures

- 6.7 The Contractor has implemented environmental mitigation measures and requires as stated in the EIA reports, the EP and the EM&A Manuals. The implementation status of the mitigation measures during the reporting month is summarized in Appendix O.
- 6.8 In response to the site audit findings, the Contractor carried out corrective actions with summary given in Appendix O.

Environmental Complaint and Non-compliance

6.9 No complaint was received in the reporting month. Summary of complaints in the reporting month is tabulated in Table 6.3.

Date of complaint received	Date of complaint	Description of complaint	Investigation / Recommendations / Action take	Close-out date / Status
No complaint was received in the reporting month.	NA	NA	NA	NA

Table 6.3 Summary of complaints in the Reporting Month

6.10 Complaint log and Complaint Investigation report are shown in Appendix P.

Notifications of summons and successful prosecutions

6.11 No notification of summons and successful prosecutions was received in the reporting month. Summary of summons and successful prosecutions in the reporting month is tabulated in Table 6.4.

Date of receiving notification of summons or prosecutions	Date of event	Description of event	Action take	Close-out date / Status
No notification	NA	NA	NA	NA
of summons				
and				
successful				
prosecutions				
were received in				
the reporting				

Table 6.4 Summary of summons and successful prosecutions in the Reporting Month

Date of receiving notification of summons or prosecutions	Date of event	Description of event	Action take	Close-out date / Status
month.				

6.12 The summaries of cumulative environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in Appendix P.

7. FUTURE KEY ISSUES

Construction Programme in the coming month

7.1 The major construction activities and potential impacts in the next reporting month as follow:

Table 7.1 Summary of future key issues and potential impact in the	ne coming monin
Future key issues in the coming month	Potential impact
North Approach Ramp – Construction of utilities trough	Future key issues in the coming monthPotential impacta Approach Ramp – Construction of utilities troughNoise and Air Quality, Chemical and Waste Managementie D3 – Construction of Bridge Deck and abutments, antle of portal frameNoise and Air Quality, Chemical and Waste Managementin Depressed Road – Construction of wall & top slabNoise and Air Quality, Chemical and Waste Managementin Depressed Road – Construction of walls and roof slabNoise and Air Quality, Chemical and Waste Managementin Approach Ramp – Construction of Permanent StructureNoise and Air Quality, Chemical and Waste Managementin Approach Ramp – Construction of Permanent StructureNoise and Air Quality, Chemical and Waste Managementin Approach Ramp – Construction of Permanent StructureNoise and Air Quality, Chemical and Waste Managementin Approach Ramp – Construction of Permanent StructureNoise, Air and Water Qualityiation of precast units and backfilling works, atement of the seawall and backfilling worksNoise and Air Quality, Chemical and Waste Managementin Depressed Road – Installation of ELS system / an and Water Pipe – Laying of sewageNoise, Air and Water Qualityiscaped Deck – Construction of pile caps and installation lumnsNoise, Air and Water Qualityformer Room – Construction of Permanent structure (Kai Road – Modification works)Noise, Air and Water Quality& 2 – Installation of ELS systemNoise, Air and Water Quality& 2 – Installation of ELS systemNoise, Air and Water Quality& 2 – Installation – Construction of Permanent Structure substation – Construction of Permanent Structur
Future key issues in the coming monthPotential impactNorth Approach Ramp – Construction of utilities troughNoise and Air Quality, Chemi and Waste ManagementBridge D3 – Construction of Bridge Deck and abutments, Dismantle of portal frameNoise and Air Quality, Landsc and VisualNorth Depressed Road – Construction of wall & top slabNoise and Air Quality, Chemi and Waste ManagementUnderpass – Construction of walls and roof slabNoise and Air Quality, Chemi and Waste ManagementSouth Approach Ramp – Construction of Permanent StructureNoise and Air Quality, Chemi and Waste ManagementDistrict Cooling System seawater intake box culvert – Installation of precast units and backfilling worksNoise, Air and Water Qualit Noise, Air and Water Qualit Chemi and Waste ManagementSouth Depressed Road – Installation of ELS system / construction of permanent worksNoise, Air and Water Qualit Noise, Air and Water Qualit Noise, Air and Water QualitLift 4 – Construction of pile caps and installation of columnsNoise, Air and Water Qualit Noise, Air and Water Qualit Noise, Air and Water QualitLift 1 & 2 – Installation of ELS systemNoise, Air and Water Qualit Noise, Air and Water Qualit Noise, Air and Water Qualit Noise, Air and Water Qualit Noise, Air and Water QualitLift 1 & 2 – Installation of PLS systemNoise, Air and Water Qualit Noise, Air and Water Qu	and Visual
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Table 7.1 Summary of future key issues and potential impact in the coming month

- 7.2 The mitigation measures for environmental impact including Air Quality, Construction Noise, Water Quality, Chemical and Waste Management, Landscape and Visual shall be implemented:
 - Sufficient watering of the works site with the active dust emitting activities,
 - Limitation of the speed for vehicles on unpaved site roads,
 - Properly cover the stockpiles,

- Good maintenance to the plant and equipment,
- Use of quieter plant and Quality Powered Mechanical Equipment (QPME),
- Provide movable noise barriers,
- Appropriate desilting/ sedimentation devices provided on site for treatment before discharge,
- Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall,
- Onsite waste sorting and implementation of trip ticket system,
- Good management and control on construction waste reduction,
- Erection of decorative screen hoarding,
- Strictly following the Environmental Permits and Licenses, and
- Provide sufficient mitigation measures as recommended in Approved EIA Reports.

Environmental Site Inspection and Monitoring Schedule for next month

7.3 The tentative schedule for weekly site inspection and air quality and noise monitoring in the next month is provided in Appendix C.

8. CONCLUSIONS

- 8.1 Environmental monitoring works were performed in the reporting month and all monitoring results were checked and reviewed.
- 8.2 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. Due to the outbreak of COVID 19, The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), one of the impact monitoring stations, did not open to public starting from 23 February 2022 and Environmental Team could not conduct impact monitoring on roof top. 1-hour TSP monitoring was conducted on the ground floor outside AM4(A) with facing to the Project Site because of the access limitation in the reporting month.
- 8.3 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. Due to the outbreak of COVID 19, The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), one of the impact monitoring stations, did not open to public starting from 23 February 2022 and Environmental Team could not conduct impact monitoring on roof top. No 24-hour TSP monitoring was conducted at AM4(A) because of the assess limitation in the reporting month.
- 8.4 Construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded. Due to the outbreak of COVID 19, The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), one of the impact monitoring stations, did not open to public starting from 23 February 2022 and Environmental Team could not conduct impact monitoring on roof top. Impact monitoring was conducted on the ground floor outside M11 with facing to the Project Site because of the access limitation in the reporting month.
- 8.5 No complaint was received in the reporting month.
- 8.6 No notification of summons and successful prosecutions was received in the reporting month.

Figure

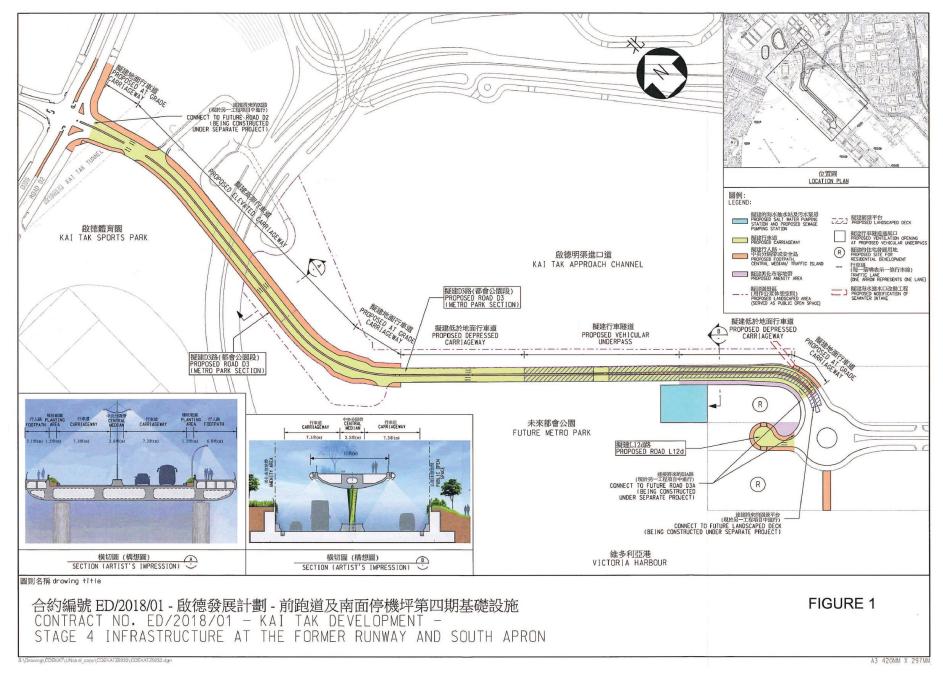


Figure 1 – Proposed works of Contract No. ED/2018/01

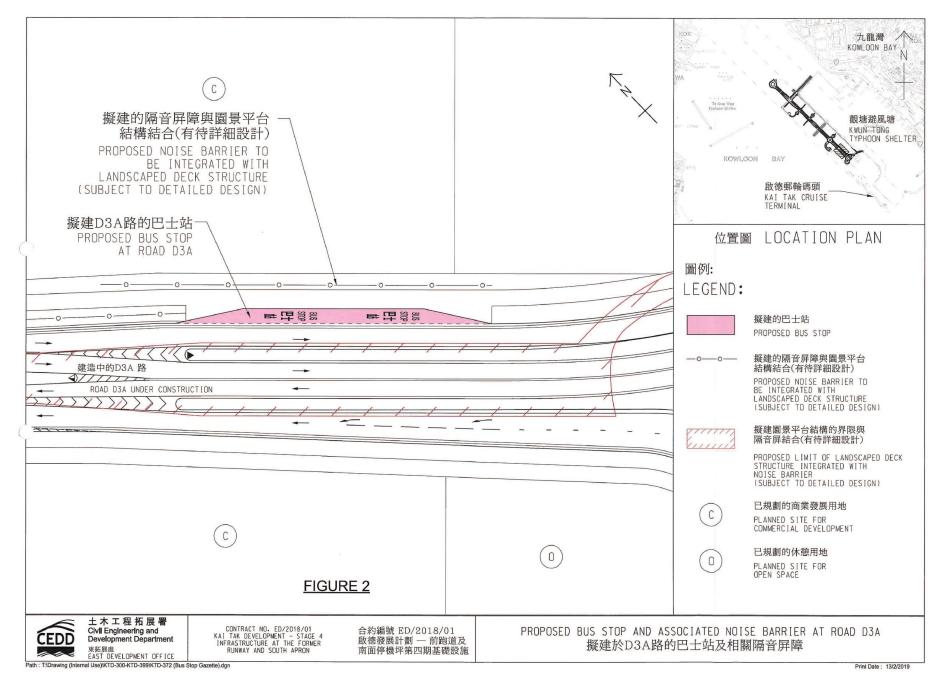


Figure 2 - Proposed Bus Stop And Associated Noise Barrier At Road D3A

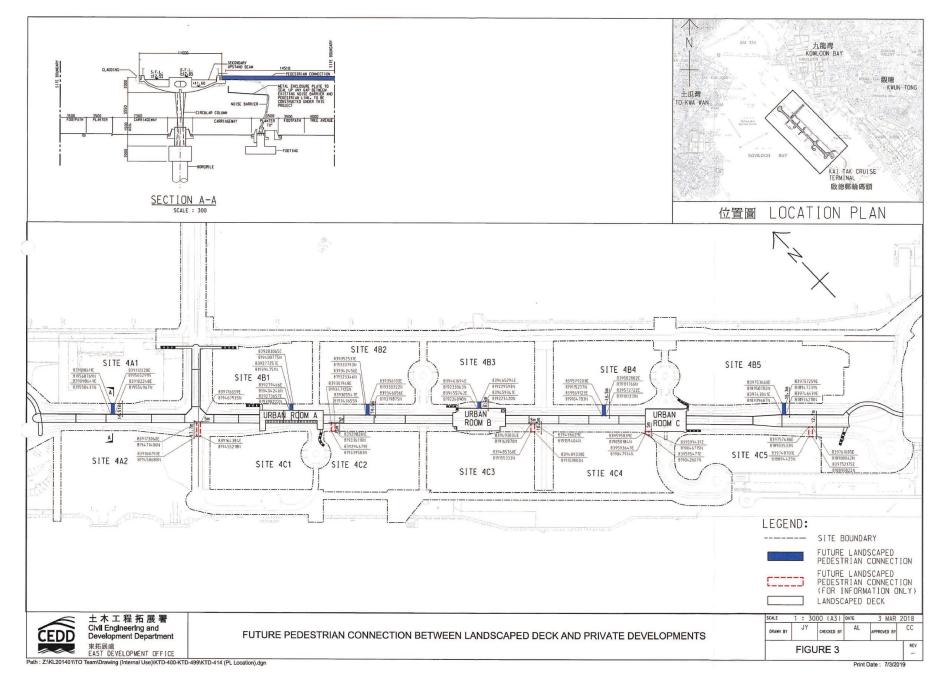


Figure 3 – Future Pedestrian Connection Between Landscaped Deck And Private Developments

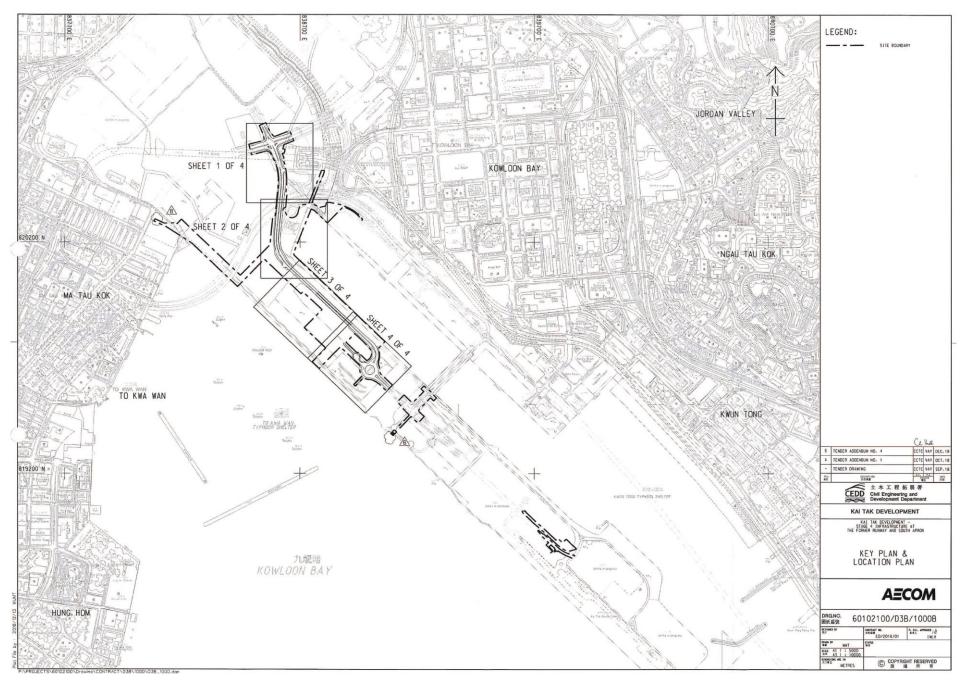


Figure 4 – Site Layout Plan

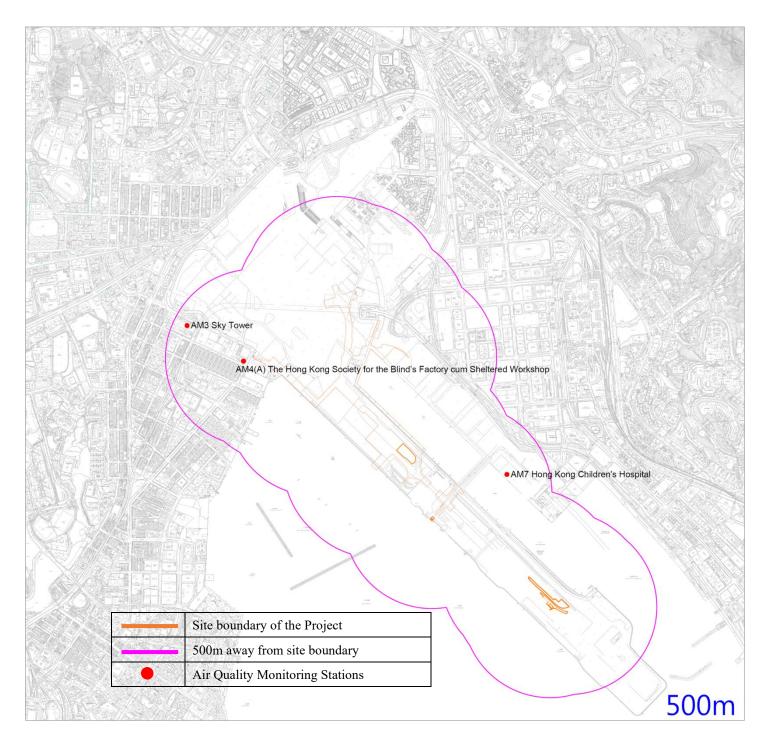


Figure 5 – Air Quality Monitoring Stations

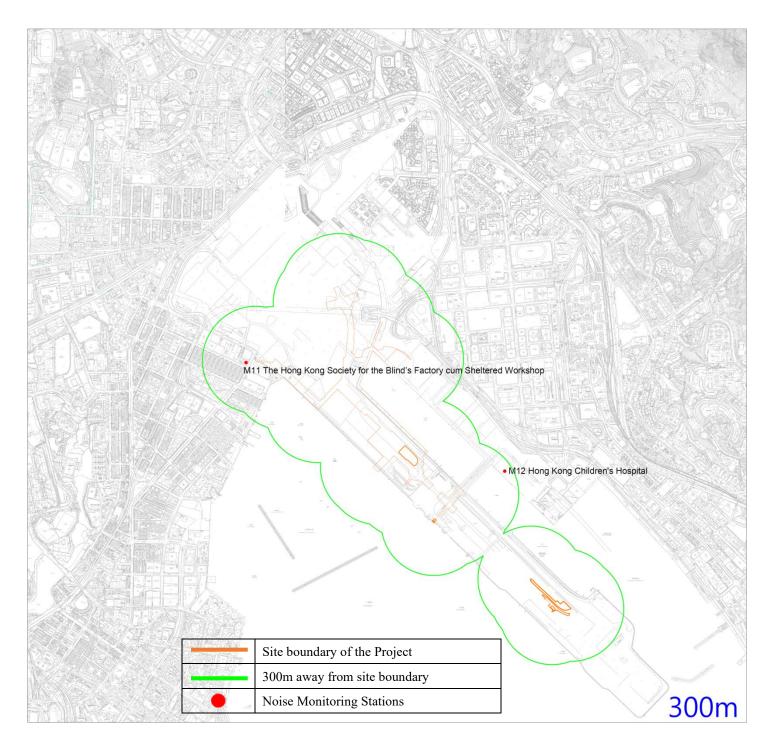
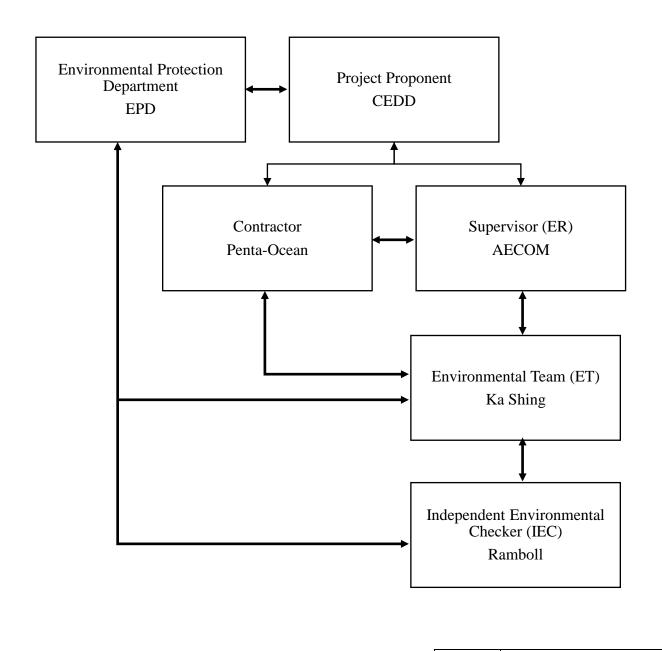
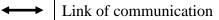


Figure 6 – Noise Monitoring Stations

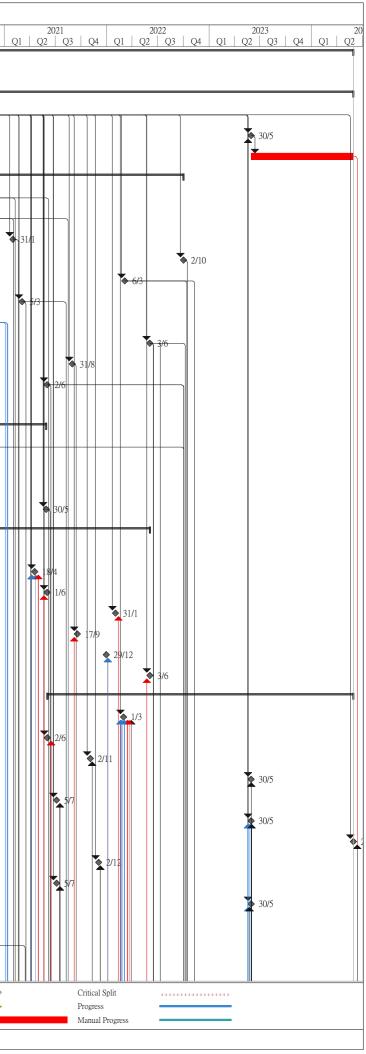
Appendix A – Organization Chart of EM&A Team



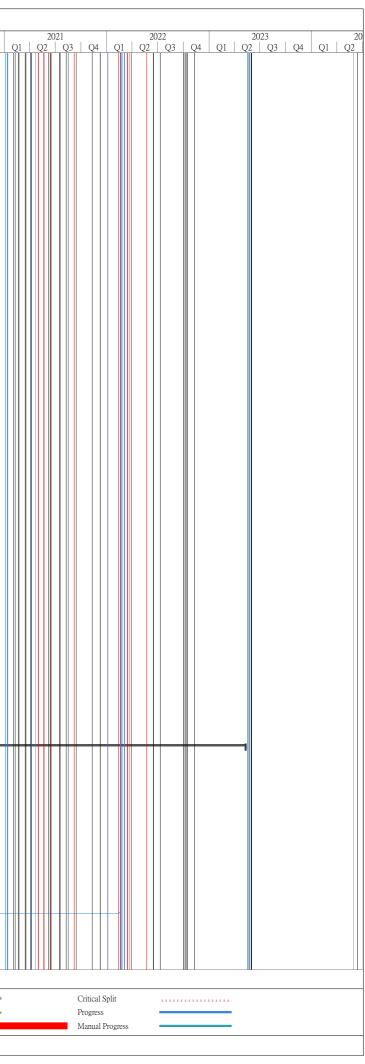


Appendix B – Construction Programme

1.	m 1 Nt		A	D · ·	DI . 1 ~	P 1 0			2018/01 KT	· · · · · · · · · · · · · · · · · · ·	T . T	m . 1	TD 1	D 1			
	Task Name		n Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start			Late Finish	Total Slack	TRA	Predecessors	202 Q2		
l	Project Dates	1841 da	ys 5.03 days	1835.97 days	0%	Thu 16/5/19	Wed 29/5/24	Thu 16/5/19	NA	Thu 16/5/19	Wed 29/5/24	0 days	0 days			_	
2	Contract Date	0 days	0 days	0 days	0%	Thu 16/5/19	Thu 16/5/19	Thu 16/5/19	Thu 16/5/19	Thu 16/5/19	Thu 16/5/19	0 days	0 days				
3	Date of Commencement & Completion (CDP1: Item 3)	1827 da	ys0 days	1827 days	0%	Thu 30/5/19	Wed 29/5/24	Thu 30/5/19	NA	Thu 30/5/19	Wed 29/5/24	0 days	0 days				
1	Starting Date (CDPart1: Item 3)	0 days	0 days	0 days	100%	Thu 30/5/19	Thu 30/5/19	Thu 30/5/19	Thu 30/5/19	Thu 30/5/19	Thu 30/5/19	0 days	0 days	2FS+14 days			
5	Completion Date	0 days	0 days	0 days	0%	Tue 30/5/23	Tue 30/5/23	NA	NA	Tue 30/5/23	Tue 30/5/23	0 days	0 days	4FS+1461 days,			
5	Establishment Work	365 day	s 0 days	365 days	0%	Wed 31/5/23	Wed 29/5/24	NA	NA	Wed 31/5/23	Wed 29/5/24	0 days	0 days	5			
7	Schedule of Access Dates (CDP1: Item 3[TA No.1)	1221 da	ys1221 days	0 days	0%	Thu 30/5/19	Sun 2/10/22	Thu 30/5/19	NA	Thu 30/5/19	Sun 2/10/22	0 days	0 days			+	_
8	Access Date - Part 1, 6A,6B,9A,9B	0 days	0 days	0 days	100%	Thu 30/5/19	Thu 30/5/19	Thu 30/5/19	Thu 30/5/19	Thu 30/5/19	Thu 30/5/19	0 days	0 days	4		╫┑	Γ
9	Access Date - Part 2A,2C	0 days	0 days	0 days	0%	Tue 2/6/20	Tue 2/6/20	NA	NA	Tue 2/6/20	Tue 2/6/20	0 days	0 days	4FS+369 days	2	46	┝
0	Access Date - Part 2B	0 days	0 days	0 days	0%	Sun 31/1/21	Sun 31/1/21	NA	NA	Sun 31/1/21	Sun 31/1/21	0 days	0 days	4FS+612 days			
1	Access Date - Part 2E	0 days	0 days	0 days	0%	Sun 2/10/22	Sun 2/10/22	NA	NA	Sun 2/10/22	Sun 2/10/22	0 days	0 days	4FS+1221 days			
2	Access Date - Part 3A	0 days	0 days	0 days	0%	Sun 6/3/22	Sun 6/3/22	NA	NA	Sun 6/3/22	Sun 6/3/22	0 days	0 days	4FS+1011 days			
3	Access Date - Part 3B,4	0 days	0 days	0 days	0%	Fri 5/3/21	Fri 5/3/21	NA	NA	Fri 5/3/21	Fri 5/3/21	0 days	0 days	4FS+645 days			
4	Access Date - Part 3C,3D,3E,3G,3I	1 day	1 day	0 days	100%	Thu 31/10/19	Thu 31/10/19	Thu 31/10/19	Thu 31/10/19	Thu 31/10/19	Thu 31/10/19	0 days	0 days				Ļ
5	Access Date - Part 3F	0 days	0 days	0 days	0%	Fri 3/6/22	Fri 3/6/22	NA	NA	Fri 3/6/22	Fri 3/6/22	0 days	0 days	4FS+1100 days			
6	Access Date - Part 3H,7A,7B,8,9 (TA No.1)	0 days	0 days	0 days	0%	Tue 31/8/21	Tue 31/8/21	NA	NA	Tue 31/8/21	Tue 31/8/21	0 days	0 days	4FS+824 days			
7	Access Date - Part 10	0 days	0 days	0 days	0%	Wed 2/6/21	Wed 2/6/21	NA	NA	Wed 2/6/21	Wed 2/6/21	0 days	0 days	4FS+734 days			
8	Access Date - Area WA1	0 days	0 days	0 days	100%	Thu 30/5/19	Thu 30/5/19	Thu 30/5/19	Thu 30/5/19	Thu 30/5/19	Thu 30/5/19	0 days	0 days	4			
9	Schedule of Time for Ordering (CDP1: Item Cl.B5)	695 day	s 0 days	695 days	0%	Fri 5/7/19	Sun 30/5/21	Fri 5/7/19	NA	Fri 5/7/19	Sun 30/5/21	0 days	0 days			++	
0	Time for Ordering "Section Subject to Excision" - Section 4	0 days	0 days	0 days	0%	Tue 2/6/20	Tue 2/6/20	NA	NA	Tue 2/6/20	Tue 2/6/20	0 days	0 days	4FS+368 days	2	2/6	ļ
1	Time for Ordering "Section Subject to Excision" - Section 8	0 days	0 days	0 days	0%	Tue 2/6/20	Tue 2/6/20	NA	NA	Tue 2/6/20	Tue 2/6/20	0 days	0 days	4FS+368 days		2/6	
2	Time for Ordering "Section Subject to Excision" - Section 9	0 days	0 days	0 days	100%	Fri 5/7/19	Fri 5/7/19	Fri 5/7/19	Fri 5/7/19	Fri 5/7/19	Fri 5/7/19	0 days	0 days	4FS+35 days			
3	Time for Ordering "Section Subject to Excision" - Section 10	0 days		0 days	0%	Sun 30/5/21	Sun 30/5/21	NA	NA	Sun 30/5/21	Sun 30/5/21	0 days	0 days	4FS+730 days			
4	Schedule of Key Dates (CDP1: Item 3[TA No.1])		s 0 days	665 days	0%	Fri 7/8/20	Fri 3/6/22	NA	NA	Fri 7/8/20	Fri 3/6/22	0 days	0 days				Ļ
5	KD1	0 days	0 days	0 days	0%	Fri 7/8/20	Fri 7/8/20	NA	NA	Fri 7/8/20	Fri 7/8/20		0 days	4FS+435 days,70	.		7/9
6	KD2		0 days	0 days	0%	Sun 18/4/21	Sun 18/4/21		NA	Sun 18/4/21	Sun 18/4/21	0 days		4FS+689 days,70			ľ
7	KD3		0 days	0 days	0%		Tue 1/6/21			Tue 1/6/21		0 days		4FS+733 days,70			
8	KD4	0 days		0 days	0%	Mon 31/1/22	Mon 31/1/22		NA	Mon 31/1/22	Mon 31/1/22	0 days	0 days	4FS+977 days,70			
9	KD4 KD5		0 days	-	0%	Fri 17/9/21	Fri 17/9/21		NA	Fri 17/9/21	Fri 17/9/21	0 days		4FS+841 days,70			
)	KD6	0 days		0 days	0%	Wed 29/12/21	Wed 29/12/21			Wed 29/12/21	Wed 29/12/21		0 days	706,883			
		0 days	0 days	0 days					NA			0 days		4FS+1100 days,			
1	KD7	0 days	0 days	0 days	0%	Fri 3/6/22	Fri 3/6/22	NA	NA	Fri 3/6/22	Fri 3/6/22		0 days	4FS+1100 days,			
2	Schedule of Section Completion (CDP1 Cl. X5)		ys0 days	1092 days	0%	Wed 2/6/21	Wed 29/5/24		NA	Wed 2/6/21	Wed 29/5/24		0 days	177 4006 1			
3	Section Completion Date Section 1		0 days	0 days	0%	Tue 1/3/22	Tue 1/3/22	NA	NA	Tue 1/3/22	Tue 1/3/22	-13 days		4FS+1006 days,			
4	Section Completion Date Section 2	0 days	0 days	0 days	0%	Wed 2/6/21		NA	NA	Wed 2/6/21	Wed 2/6/21		0 days	4FS+734 days,69			
5	Section Completion Date Section 3	0 days	0 days	0 days	0%	Tue 2/11/21	Tue 2/11/21		NA	Tue 2/11/21	Tue 2/11/21	0 days	0 days	4FS+887 days,69			ĺ
5	Section Completion Date Section 4	0 days	0 days	0 days	0%	Tue 30/5/23	Tue 30/5/23		NA	Tue 30/5/23	Tue 30/5/23		0 days	4FS+1461 days,6			
7	Section Completion Date Section 5	0 days	0 days	0 days	0%	Mon 5/7/21	Mon 5/7/21	NA	NA	Mon 5/7/21	Mon 5/7/21	0 days	0 days	4FS+767 days,69			
8	Section Completion Date Section 6	0 days	0 days	0 days	0%	Tue 30/5/23	Tue 30/5/23		NA	Tue 30/5/23	Tue 30/5/23	0 days	0 days	4FS+1461 days,0			
9	Section Completion Date Section 7	0 days	0 days	0 days	0%	Wed 29/5/24	Wed 29/5/24	NA	NA	Wed 29/5/24	Wed 29/5/24	0 days	0 days	4FS+1826 days,6			
)	Section Completion Date Section 8	0 days	0 days	0 days	0%	Thu 2/12/21	Thu 2/12/21	NA	NA	Thu 2/12/21	Thu 2/12/21	0 days	0 days	4FS+917 days,69			
	Section Completion Date Section 9	0 days	0 days	0 days	0%	Mon 5/7/21	Mon 5/7/21	NA	NA	Mon 5/7/21	Mon 5/7/21	0 days	0 days	4FS+767 days,69			
2	Section Completion Date Section 10	0 days	0 days	0 days	0%	Tue 30/5/23	Tue 30/5/23	NA	NA	Tue 30/5/23	Tue 30/5/23	0 days	0 days	4FS+1461 days,			
-	Pre-meeting of ACABAS	77 days	0 days	77 days	0%	Mon 29/6/20	Mon 14/9/20	NA	NA	Mon 6/7/20	Mon 14/9/20	0 days				-++•	4
ŀ	Pre-meeting of ACABAS	0 days	0 days	0 days	0%	Mon 29/6/20	Mon 29/6/20	NA	NA	Thu 23/7/20	Thu 23/7/20	24 days			•	2916	1
	Task Force on Kai Tak Harbourfront Development Meeting	0 days	0 days	0 days	0%	Mon 6/7/20	Mon 6/7/20	NA	NA	Mon 6/7/20	Mon 6/7/20	0 days				6/7	
	Task	Summary		 	Inactive N	vilestone 🔷		Duration-or	lv		Start-only		C	Fyte	mal Miles	stone	1
e∙ Re	ev. I I Prod with Prodress		nmarv		Inactive S				nmary Rollup 💼		Finish-only		3		lline		
	22-May-20	Project Su			g macuve a	Julillian		Manual Sur			1 mish only		-	Dea			



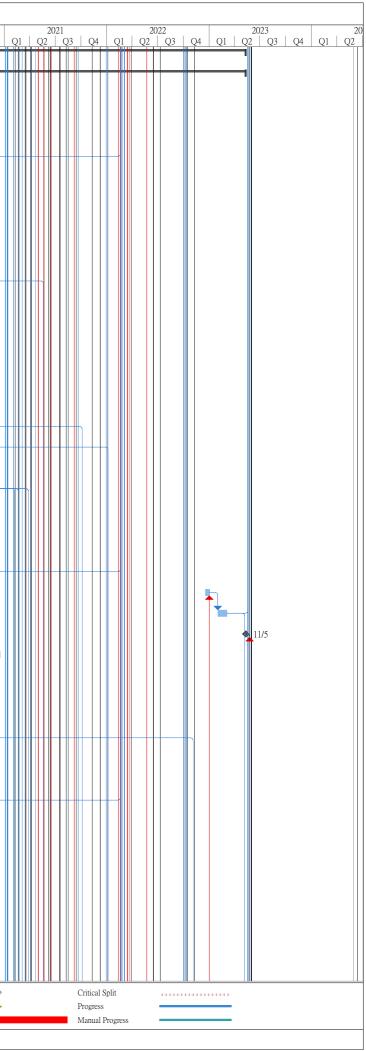
)	Task Name	Duration		Remaining	Physical %	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total	TRA	Predecessors	2	2020
46	District Council Consultation		Duration 0 days	Duration 0 days	Complete 0%	Mon 14/9/20	Mon 14/9/20	NA	NA	Mon 14/9/20	Mon 14/9/20	Slack 0 days			Q2	
40			-				Fri 28/2/20			Thu 20/2/20	Fri 28/2/20					
	Project Manager's Instruction	-	8 days	0 days	0%	Thu 20/2/20						0 days				
48	PMI No. 001 - BIM Promenade Walk-through Video for Infrastructure in Kai Tak Stage 4		0 days	0 days	100%	Thu 20/2/20	Thu 20/2/20	Thu 20/2/20	Thu 20/2/20		Thu 20/2/20	0 days			0/2	
49	PMI No. 002 - Arranagement of Restricting Site Activities due to Spread of the Noval Coronavirus Between 29 January 2020 to 02 February 2020	0 days	0 days	0 days	100%	Fri 28/2/20	Fri 28/2/20	Fri 28/2/20	Fri 28/2/20	Fri 28/2/20	Fri 28/2/20	0 days			28/2	
50	Compensation Event	16 days	16 days	0 days	0%	Mon 10/2/20	Wed 26/2/20	Mon 10/2/20	Wed 26/2/20	Mon 10/2/20	Wed 26/2/20	0 days				
51	CE/001: BIM Promenade Walk-through Video for Infrastructure in Kai Tak Stage 4	0 days	0 days	0 days	100%	Mon 10/2/20	Mon 10/2/20	Mon 10/2/20	Mon 10/2/20	Mon 10/2/20	Mon 10/2/20	0 days			V2	
52	CE/002 - Arranagement of Restricting Site Activities due to Spread of the Noval Coronavirus Between 29 January 2020 to 02 February 2020	0 days	0 days	0 days	100%	Wed 26/2/20	Wed 26/2/20	Wed 26/2/20	Wed 26/2/20	Wed 26/2/20	Wed 26/2/20	0 days			26/2	
53	Early Warning	257 days	257 days	0 days	0%	Wed 10/7/19	Mon 23/3/20	Wed 10/7/19	Mon 23/3/20	Wed 10/7/19	Mon 23/3/20	0 days				
54	EW No. 001: CLP's 11kV and 132kV Cable Routing across Utility Trough of Bridge D3 and Alongside Road D3 (Metro Park Section)	0 days	0 days	0 days	100%	Wed 10/7/19	Wed 10/7/19	Wed 10/7/19	Wed 10/7/19	Wed 10/7/19	Wed 10/7/19	0 days				
55	EW No. 002: Deep Excavation Basement Construction Works from CKR-BEM Contract	0 days	0 days	0 days	100%	Thu 5/9/19	Thu 5/9/19	Thu 5/9/19	Thu 5/9/19	Thu 5/9/19	Thu 5/9/19	0 days				
56	EW No. 003: Overhang Cables of CLP Delay the Northern Depressed Road	0 days	0 days	0 days	100%	Wed 11/9/19	Wed 11/9/19	Wed 11/9/19	Wed 11/9/19	Wed 11/9/19	Wed 11/9/19	0 days				
57	EW No. 004: Late Commencement on Noise and Air Baseline Monitoring Delay the Northern Depressed Road CH1560 to 1720	0 days	0 days	0 days	100%	Mon 4/11/19	Mon 4/11/19	Mon 4/11/19	Mon 4/11/19	Mon 4/11/19	Mon 4/11/19	0 days				
58	EW No. 005: Maintain the SCL RoW which should have been diverted to the RoW Constructed by KTSP caused Disruption to the Construction of North Approach Ramp especially affect the KTD1	0 days	0 days	0 days	100%	Wed 13/11/19	Wed 13/11/19	Wed 13/11/19	Wed 13/11/19	Wed 13/11/19	Wed 13/11/19	0 days				
59	EW No. 006: Deferral of Design Deliverables	0 days	0 days	0 days	100%	Mon 16/12/19	Mon 16/12/19	Mon 16/12/19	Mon 16/12/	Mon 16/12/19	Mon 16/12/19	0 days				
60	EW No. 007: Delay on Driven H-piles by KTSP may affect the KD1	0 days	0 days	0 days	100%	Fri 20/12/19	Fri 20/12/19	Fri 20/12/19	Fri 20/12/19	Fri 20/12/19	Fri 20/12/19	0 days				
61	EW No. 008: Not Allow to Extract Sheetpiles of North Approach Ramp beside Kai Tak Sport Park as Discussed at the Interface Meeting	0 days	0 days	0 days	100%	Fri 27/12/19	Fri 27/12/19	Fri 27/12/19	Fri 27/12/19	Fri 27/12/19	Fri 27/12/19	0 days				
62	EW No. 010: Existing 150mm Fresh Water Pipe clashing with Bridge D3 and South Approach Ramp	0 days	0 days	0 days	100%	Wed 8/1/20	Wed 8/1/20	Wed 8/1/20	Wed 8/1/20	Wed 8/1/20	Wed 8/1/20	0 days				
63	EW No. 01: Additional Requirement for Special Arrangement for Design and Constructioon of Noise Barrier fir Future Connection of Footbridge FB10 from Development Site 4B5	0 days	0 days	0 days	100%	Tue 14/1/20	Tue 14/1/20	Tue 14/1/20	Tue 14/1/20	Tue 14/1/20	Tue 14/1/20	0 days				
64	EW No. 014: Planning of the Works in Revised Programme (Rev. 6)	0 days	0 days	0 days	100%	Mon 10/2/20	Mon 10/2/20	Mon 10/2/20	Mon 10/2/20	Mon 10/2/20	Mon 10/2/20	0 days			V2	
65	EW No. 015: Outbreak of Novel Coronavirus (Constraints on Working Time)	0 days	0 days	0 days	100%	Tue 11/2/20	Tue 11/2/20	Tue 11/2/20	Tue 11/2/20	Tue 11/2/20	Tue 11/2/20	0 days			/2	
66	EW No. 016: Outbreak of Novel Coronavirus (Late Supply of Agggregate)	0 days	0 days	0 days	100%	Wed 19/2/20	Wed 19/2/20	Wed 19/2/20	Wed 19/2/20	Wed 19/2/20	Wed 19/2/20	0 days			9/2	
67	EW No. 020: GEO Audit for Underpass D3	0 days	0 days	0 days	100%	Fri 13/3/20	Fri 13/3/20	Fri 13/3/20	Fri 13/3/20	Fri 13/3/20	Fri 13/3/20	0 days			13/3	
68	EW No. 021: Unforessen Underground Water at North Approach Ramp Bay 6	0 days	0 days	0 days	100%	Thu 12/3/20	Thu 12/3/20	Thu 12/3/20	Thu 12/3/20	Thu 12/3/20	Thu 12/3/20	0 days			12/3	
69			0 days	0 days	100%	Fri 13/3/20	Fri 13/3/20	Fri 13/3/20		Fri 13/3/20	Fri 13/3/20	0 days			13/3	
70	EW No. 023:Disruption of the Works due to Stockpile was not allowed to dispose to the		0 days	0 days	100%	Mon 16/3/20		Mon 16/3/20			Mon 16/3/20	0 days			16/3	
71	Proposed Disposed Ground EW No. 025: Broken Steel Casing for Bored Pile P02-BP2		0 days	0 days	100%	Mon 23/3/20		Mon 23/3/20			Mon 23/3/20	0 days			23/3	
72	Contractor's Notification of Compensation Event	14 days	-	14 days	0%	Thu 28/5/20	Thu 11/6/20		NA	Tue 9/6/20	Tue 7/7/20	12 days				
72	Compensation Event (CNCE) No. 009 - Inclement Weather in April 2020	0 days	-	0 days	0%	Thu 28/5/20	Thu 11/0/20 Thu 28/5/20		NA	Tue 7/7/20	Tue 7/7/20	40 days				28
74	Compensation Event - Inclement Weather in May 2020	0 days	0 days	0 days	0%	Thu 11/6/20	Thu 11/6/20	NA	NA	Tue 9/6/20	Tue 9/6/20	-2 days				•
75	Project Submission	1457 day	401.03 days	1055.97 days	0%	Thu 16/5/19	Thu 11/5/23	Thu 16/5/19	NA	Thu 16/5/19	Thu 11/5/23	0 days	0 days		-	-++
76	Submit Third Parties Insurance	71 days	71 days	0 days	100%	Tue 18/6/19	Tue 27/8/19	Tue 18/6/19	Tue 27/8/19	Tue 18/6/19	Tue 27/8/19	0 days	0 days	4		
77	Works Programme	-	160 days	0 days	0%	Thu 16/5/19	Tue 22/10/19	Thu 16/5/19	Thu 15/8/19	Thu 16/5/19	Tue 22/10/19	0 days				
78	Submit First Programme	20 days	-	0 days	100%	Thu 16/5/19	Tue 4/6/19	Thu 16/5/19		Thu 16/5/19	Tue 4/6/19	0 days	0 days	2		
79	Review and Comment by Project Manager	9 days	-	0 days	100%	Wed 5/6/19	Thu 13/6/19	Wed 5/6/19	Thu 13/6/19	Wed 5/6/19	Thu 13/6/19	0 days	0 days	78		
80	Revise and Resubmission of Works Programme	42 days		0 days	100%	Fri 14/6/19		Fri 14/6/19	Thu 25/7/19		Thu 25/7/19	0 days	0 days	79		
81	Final Review and Acceptance of the First Programme by Project Manager	20 days	_	0 days	100%	Sat 27/7/19	Thu 25/7/19 Thu 15/8/19	Sat 27/7/19	Thu 15/8/19		Thu 15/8/19	0 days	0 days	80		
82	Submit Health and Safety Management Plan (ACC Cl. D6(2))	6 days		0 days	100%	Thu 30/5/19	Tue 4/6/19			Thu 30/5/19	Tue 4/6/19	0 days	0.5 day	4		
82	Submit Hearth and Sarety Management Plan (ACC CL Do(2)) Submit Detailed Programme for Safety Risk (ER Part 7, CL 7.3.4)	o days 34 days	-	0 days	100%	Mon 9/12/19	Sat 11/1/20	Mon 9/12/19			Sat 11/1/20	0 days	0.5 day	4		
														4		
84	Submit Environmental Management Plan (ACC Cl. D20(2))	-	6 days	0 days	100%	Thu 30/5/19	Tue 4/6/19			Thu 30/5/19	Tue 4/6/19	0 days	0.5 day	4		
85	Submit BIM Models Deliverables	262 days	262 days	0 days	0%	Tue 13/8/19	Thu 30/4/20	Tue 13/8/19	Thu 30/4/20	Tue 13/8/19	Thu 30/4/20	0 days				
	Task	Summary			Inactive N	filestone 🔷		Duration-on	ly		Start-only		C	F	xternal Mi	iles
	ev. I I Prod with Prodress	Project Sum	mary [Inactive S				nmary Rollup 💼		Finish-only		3		eadline	
us UI 4	Milestone	nactive Tas	k		Manual T	aala		Manual Sun			External Tasl	-		(ritical	



Ta	sk Name			Duration	Actual	Remaining	Physical %	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total	TRA	Predecessors	20)20
					Duration	Duration	Complete							Slack		Fieuecessors	Q2	
86	Existing Site Model (Topography)			46 days	-	0 days	100%	Tue 13/8/19	Fri 27/9/19		Fri 27/9/19		Fri 27/9/19	0 days	1 day			
87	Existing Underground Utilities (UU			33 days	-	0 days	100%	Mon 26/8/19	Fri 27/9/19	Mon 26/8/19			Fri 27/9/19	0 days	1 day			
88	3D Digital Survey For Existing Co	nditions		44 days	-	0 days	100%	Mon 2/9/19			Tue 15/10/19		Tue 15/10/19	0 days	1 day			
89	3D Photogrametry Model			46 days		0 days	100%	Mon 16/9/19		Mon 16/9/19			Thu 31/10/19	0 days	1 day			
90	AIP Model			16.92 day	/ 16.92 days	0 days	100%	Fri 6/9/19	Sun 22/9/19	Fri 6/9/19	Sun 22/9/19	Fri 6/9/19	Sun 22/9/19	0 days	1 day			
91	Interfacing Contract Model			53 days	53 days	0 days	100%	Mon 9/9/19	Thu 31/10/19	Mon 9/9/19	Thu 31/10/19	Mon 9/9/19	Thu 31/10/19	0 days	1 day			
92	Monthly Updated BIM Model			1 day	1 day	0 days	100%	Thu 31/10/19	Thu 31/10/19	Thu 31/10/19	Thu 31/10/19	Thu 31/10/19	Thu 31/10/19	0 days	1 day			
93	4D Model Linked Up with Program	nme		0 days	0 days	0 days	100%	Thu 30/4/20	Thu 30/4/20	Thu 30/4/20	Thu 30/4/20	Thu 30/4/20	Thu 30/4/20	0 days	1 day		♦ 30	/4
94	Construction Method Simulation (CMS) in 3D Model		0 days	0 days	0 days	100%	Wed 22/4/20	Wed 22/4/20	Wed 22/4/20	Wed 22/4/20	Wed 22/4/20	Wed 22/4/20	0 days	1 day		♦ 22/4	4
95	BIM Deliverables Schedule			896 days	3.72 days	892.28 days	0%	Thu 16/5/19	Wed 27/10/21	Thu 16/5/19	NA	Thu 16/5/19	Tue 11/1/22	76 days				
96	Establish BIM Team			0 days	0 days	0 days	100%	Sat 3/8/19	Sat 3/8/19	Sat 3/8/19	Sat 3/8/19	Sat 3/8/19	Sat 3/8/19	0 days	1 day			
97	BIM Execution Plan			0 days	0 days	0 days	100%	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	0 days	1 day			
98	BIM Submission Schedule			0 days	0 days	0 days	100%	Fri 16/8/19	Fri 16/8/19	Fri 16/8/19	Fri 16/8/19	Fri 16/8/19	Fri 16/8/19	0 days	1 day			
99	BIM 360 License			0 days	0 days	0 days	100%	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	0 days	1 day			
00	BIM/Drawing Management Softwa	ire System		0 days	0 days	0 days	100%	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	Sat 31/8/19	0 days	1 day			
01	CDE Setup			1 day	1 day	0 days	100%	Sat 31/8/19	Mon 9/9/19	Sat 31/8/19	Mon 9/9/19	Sat 31/8/19	Mon 9/9/19	0 days	1 day		-	
02	Clash Report Format			-	0 days	0 days	100%	Thu 12/9/19	Thu 12/9/19	Thu 12/9/19	Thu 12/9/19	Thu 12/9/19	Thu 12/9/19	0 days	1 day			
03	Monthly Report Format			-	0 days	0 days	100%	Thu 12/9/19		Thu 12/9/19			Thu 12/9/19		1 day			
04	Quality Assurance Plan for BIM				0 days	0 days	100%	Mon 30/9/19		Mon 30/9/19			Mon 30/9/19	0 days	1 day		_	
05	BIM Training Plan				0 days	0 days	100%	Thu 10/10/19		Thu 10/10/19			Thu 10/10/19	0 days	1 day			
06	BIM Training Schedule for CIC Tr	aining		-	0 days	0 days	100%	Mon 30/9/19		Mon 30/9/19			Mon 30/9/19		1 day			
07	Monthly BIM Progress Report	annig			-	0 days	100%	Thu 16/5/19					Tue 31/12/19		1 day			
				-	0 days	-				Thu 16/5/19				0 days			_	
08	Monthly Clash Report				1 day	0 days	100%	Tue 31/3/20		Tue 31/3/20			Tue 31/3/20		1 day			
.09	BIM Object Libraries			-	1 day	0 days	100%	Thu 12/9/19		Thu 12/9/19			Thu 12/9/19		1 day			
10	Trees Preservation and Removal Pr Submission			-	0 days	0 days	0%	Mon 2/11/20	Mon 2/11/20		NA	Sun 17/1/21	Sun 17/1/21	63 days				
11	Trees Preservation and Removal Preservation Comment & Approval	oposal (TPRP) for tress by Relevant Governmer	along promenade open space nt Authories	e 360 days	0 days	360 days	0%	Mon 2/11/20	Wed 27/10/21	NA	NA	Sun 17/1/21	Tue 11/1/22	76 days	1 day	110		
12	Trees Preservation and Removal Pr	roposal (TPRP) for tress	along Sing Kai Submission	0 days	0 days	0 days	0%	Fri 31/7/20	Fri 31/7/20	NA	NA	Wed 30/9/20	Wed 30/9/20	52 days	1 day			 ♣ 31.
13	Trees Preservation and Removal Pr Submission Comment & Approval	oposal (TPRP) for tress	along Sing Kai Road	360 days	0 days	360 days	0%	Fri 31/7/20	Sun 25/7/21	NA	NA	Wed 30/9/20	Fri 24/9/21	61 days	1 day	112		
	Submission Comment & Approval	by Relevant Governmer	nt Authories															
14	Temporary Traffic Management			478 days	447.84 days	30.16 days	0%	Thu 30/5/19	Fri 18/9/20	Thu 30/5/19	NA	Thu 30/5/19	Fri 25/9/20	7 days				
15	Submit Traffic Engineering Consu	tant and TTM Team Lea	ader (PS1.16(3))	14 days	14 days	0 days	100%	Thu 30/5/19	Wed 12/6/19	Thu 30/5/19	Wed 12/6/19	Thu 30/5/19	Wed 12/6/19	0 days	1 day	4		
16	Submit EP Mgt System Co-ordinat	or (PS Cl. 1.18N(2))		7 days	7 days	0 days	100%	Thu 30/5/19	Wed 5/6/19	Thu 30/5/19	Wed 5/6/19	Thu 30/5/19	Wed 5/6/19	0 days	1 day	4		
17	Approve of EP Co-ordinator by Pro-	oject Manager (PS Cl. 1.	18N(2))	14 days	14 days	0 days	100%	Thu 6/6/19	Wed 19/6/19	Thu 6/6/19	Wed 19/6/19	Thu 6/6/19	Wed 19/6/19	0 days	1 day	116		
18	Submit UU detection equipment for	r Supervisor approval (F	PS Cl. 1.25A(1))	7 days	7 days	0 days	100%	Thu 30/5/19	Wed 5/6/19	Thu 30/5/19	Wed 5/6/19	Thu 30/5/19	Wed 5/6/19	0 days	1 day	4		
19	Submit & obtain approval: site offi submission + 14d approval)	ce's location and layout	plan (PS Cl. 1.45(11)) (7d	47 days	47 days	0 days	100%	Thu 30/5/19	Fri 18/10/19	Thu 30/5/19	Fri 18/10/19	Thu 30/5/19	Fri 18/10/19	0 days	1 day	4		
20	Submit Site survey record (PS Cl.1	.47(7))		34 days	34 days	0 days	100%	Thu 30/5/19	Tue 2/7/19	Thu 30/5/19	Tue 2/7/19	Thu 30/5/19	Tue 2/7/19	0 days	1 day	4		
21	Submit & obtain approval: fencing	& hoarding plan (PS Cl	. 1.48(10)	40 days	0 days	40 days	0%	Mon 10/8/20	Fri 18/9/20	NA	NA	Mon 17/8/20	Fri 25/9/20	7 days	0.5 days	4		-
22	Submit site facilities (PS Cl. 1.50S)		65 days	65 days	0 days	100%	Thu 30/5/19	Fri 2/8/19	Thu 30/5/19	Fri 2/8/19	Thu 30/5/19	Fri 2/8/19	0 days	0.5 days	4		
23	Submit security system (PS Cl. 1.5	3A(5))		36 days	36 days	0 days	100%	Thu 30/5/19	Thu 4/7/19	Thu 30/5/19	Thu 4/7/19	Thu 30/5/19	Thu 4/7/19	0 days	0.5 days	4		
24	Submit Interface Management Plar			47 days	-	0 days	100%	Thu 30/5/19	Mon 15/7/19	Thu 30/5/19	Mon 15/7/19		Mon 15/7/19	0 days	0.5 days		_	
15	Submit Subcontractor Managemen			13 days		0 days	100%	Thu 30/5/19		Thu 30/5/19			Tue 11/6/19	0 days	0.5 days			
.5	Submit Temporary Drainage and S		$ an(PS(C) + 24\Delta(1)) $		174 days	0 days	100%	Thu 30/5/19 Thu 30/5/19		Thu 30/5/19			Tue 19/11/19	0 days	1 day	4		
			aar (10 Cr. 1.2473(1))													7		
27	Submit EM&A Manual (ER Part 8	, ,		6 days	-	0 days	100%	Thu 30/5/19	Tue 4/6/19		Tue 4/6/19		Tue 4/6/19	-	0 days	4		
28	Submit Proposal of selection of sup		enais (ACC CI. CII(I)	80 days		0 days	100%	Thu 30/5/19	Sat 17/8/19		Sat 17/8/19		Sat 17/8/19	0 days	0 days	4		
29	Submit Contractor's Management	feam (ACC Cl. D1(3))		50 days	50 days	0 days	100%	Thu 30/5/19	Thu 18/7/19	Thu 30/5/19	Thu 18/7/19	Thu 30/5/19	Thu 18/7/19	0 days	0 days	4		
le: Rev	.11 Prog with Progress	Task		Summary			Inactive N			Duration-on			Start-only		C		ternal Mile	estone
	-May-20	Split		Project Sum	mary		Inactive S	Summary 🛛		Manual Sun	nmary Rollup 🗧		Finish-only		3	De	eadline	

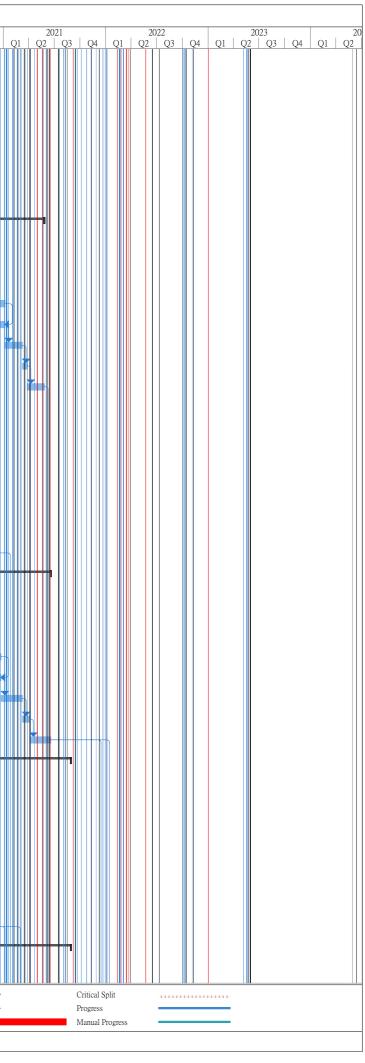
2021	2022	2023 20
2021 Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4 Q1 Q2	2025 20 Q3 Q4 Q1 Q2
11		
Critical S Progress	plit	
Manual F	rogress	

) [Task Name	Duration A	ctual	Remaining	Physical %	Early Start		Actual Start			Late Finish	Total	TRA	Predecessors	20)20
		D	Duration	Duration	Complete							Slack	IKA	r ieuecessois		Q3
30	Permanent Works Design Submission		-	1083.92 days	0%	Thu 16/5/19		Thu 16/5/19		Thu 16/5/19	Thu 11/5/23	0 days				
31	General Design Submission			487.54 days	0%	Thu 30/5/19		Thu 30/5/19		Thu 30/5/19	Thu 11/5/23	0 days		4		
2	Project Design Plan (Draft)	16 days 10	-	0 days	100%	Thu 30/5/19		Thu 30/5/19		Thu 30/5/19	Fri 14/6/19	0 days	1 day	4		
3	Project Design Plan (Draft) Comment by PM	14 days 14	4 days	0 days	100%	Sat 15/6/19	Fri 28/6/19			Sat 15/6/19	Fri 28/6/19	0 days	1 day			
34	Address Comments	120 days 6	-	54 days	55%	Tue 2/7/19	Wed 15/7/20	Tue 2/7/19	NA	Tue 2/7/19	Thu 11/5/23	1030 d	1 days	132	•••	
35	Project Design Plan (Final)	54 days 54	4 days	0 days	100%	Thu 5/9/19	Tue 29/10/19	Thu 5/9/19	Tue 29/10/19	Thu 5/9/19	Tue 29/10/19	0 days	1 days	134		
36	Design Memorandum (include E&M Provision) (Draft)	26 days 20	6 days	0 days	100%	Tue 4/6/19	Sat 29/6/19	Tue 4/6/19	Sat 29/6/19	Tue 4/6/19	Sat 29/6/19	0 days	1 days	132		
37	Address Comments	15 days 11	5 days	0 days	100%	Thu 1/8/19	Thu 15/8/19	Thu 1/8/19	Thu 15/8/19	Thu 1/8/19	Thu 15/8/19	0 days	1 days	136		
138	Design Memorandum Include E&M Provision (Final)	59 days 59	9 days	0 days	100%	Tue 23/7/19	Sun 17/11/19	Tue 23/7/19	Sun 17/11/19	Tue 23/7/19	Sun 17/11/19	0 days	1 days	137		
139	Traffic Impact Assessment(Draft)	62 days 62	2 days	0 days	100%	Wed 18/9/19	Mon 18/11/19	Wed 18/9/19	Mon 18/11/	Wed 18/9/19	Mon 18/11/19	0 days	1 day	4		
140	Address Comments	16 days 10	6 days	0 days	100%	Mon 18/11/19	Wed 4/12/19	Mon 18/11/19	Wed 4/12/19	Mon 18/11/19	Wed 4/12/19	0 days	0.5 days	139		
141	Traffic Impact Assessment(Final)	30 days 0	days	30 days	0%	Mon 3/8/20	Tue 1/9/20	NA	NA	Sat 24/4/21	Sun 23/5/21	264 days	0.5 days	140		
142	ACABAS (Draft)	69 days 69	9 days	0 days	100%	Thu 30/5/19	Tue 6/8/19	Thu 30/5/19	Tue 6/8/19	Thu 30/5/19	Tue 6/8/19	0 days	2 days	4		
143	Address Committee's comments	30 days 30	0 days	0 days	100%	Wed 7/8/19	Thu 5/9/19	Wed 7/8/19	Thu 5/9/19	Wed 7/8/19	Thu 5/9/19	0 days	2 days	142		
144	ACABAS Re-submission Preparation & Submission	61 days 6	1 days	0 days	100%	Fri 6/9/19	Tue 5/11/19	Fri 6/9/19	Tue 5/11/19	Fri 6/9/19	Tue 5/11/19	0 days	2 days	143		
145	ACABAS Submission Approved	63 days 6	3 days	0 days	100%	Wed 6/11/19	Tue 7/1/20	Wed 6/11/19	Tue 7/1/20	Wed 6/11/19	Tue 7/1/20	0 days	2 days	144		
146	VCAB and DAP Submission	22 days 22	2 days	0 days	100%	Mon 10/2/20	Mon 2/3/20	Mon 10/2/20	Mon 2/3/20	Mon 10/2/20	Mon 2/3/20	0 days	2 days	4		
147	Comment by PM and Relevant Authorities	21 days 2		0 days	100%	Tue 3/3/20		Tue 3/3/20	Mon 23/3/20		Mon 23/3/20	0 days	2 days	146		
148	Stage 1: VCAB and DAP Submission	50 days 0	-	50 days	0%	Fri 12/6/20		NA		Sat 4/7/20	Sat 22/8/20	22 days	-	147,44FF+21 da		
149	Comment by PM and Relevant Authorities	50 days 0		50 days	0%	Sat 1/8/20		NA		Sun 23/8/20	Sun 11/10/20	22 days		148		
50	Stage 2: VCAB and DAP Submission	30 days 0	-	30 days	0%	Sun 20/9/20	Mon 19/10/20		NA	Fri 13/11/20	Sat 12/12/20	54 days	2 0495	140		
				-	0%			NA		Sun 13/12/20				149		
151	Comment by PM and Relevant Authorities	50 days 0	-	50 days		Tue 20/10/20					Sun 31/1/21	54 days	0.1	150		
152	Draft Utility Report Submission	19 days 19		0 days	100%	Mon 2/9/19			Fri 20/9/19		Fri 20/9/19		2 days			
153	Draft Utility Report Comment & Approval	17 days 1'		0 days	100%	Sat 21/9/19	Mon 7/10/19		Mon 7/10/19		Mon 7/10/19		2 days			
54	Final Utility Report Submission	52 days 52		0 days	100%	Mon 2/12/19	Wed 22/1/20		Wed 22/1/20		Wed 22/1/20		2 days			
55	Final Utility Report Submission Comment & Approval	38 days 0	-	38 days	0%	Thu 30/1/20	Mon 29/6/20			Thu 30/1/20	Tue 1/3/22	610 days		154		
56	Operational and Maintenace Manual (Draft) Submission	14 days 0	days	14 days	0%	Mon 19/12/22	Sun 1/1/23	NA	NA	Sat 25/2/23	Fri 10/3/23	68 days	2 days	1556		
157	Operational and Maintenace Manual (Final) Submission	32 days 0	days	32 days	0%	Wed 1/2/23	Sat 4/3/23	NA	NA	Mon 10/4/23	Thu 11/5/23	68 days	2 days	156FS+30 days		
158	As-built and As-fabrication Drawing Submission	0 days 0	days	0 days	0%	Thu 11/5/23	Thu 11/5/23	NA	NA	Thu 11/5/23	Thu 11/5/23	0 days	2 days	1558		
159	Site Investigation	561 days 10	67.98 days	393.02 days	0%	Sat 1/6/19	Sat 12/12/20	Sat 1/6/19	NA	Sat 1/6/19	Tue 1/3/22	444 days	;		+	
160	Ground Investigation Proposal (Draft)	56 days 50	6 days	0 days	100%	Sat 1/6/19	Fri 26/7/19	Sat 1/6/19	Fri 26/7/19	Sat 1/6/19	Fri 26/7/19	0 days	1 days	4		
161	Submit & endorse by Gov. Depts and PM	6 days 6	days	0 days	100%	Sat 27/7/19	Thu 1/8/19	Sat 27/7/19	Thu 1/8/19	Sat 27/7/19	Thu 1/8/19	0 days	1 days	160		
162	Ground Investigation Proposal (Final)	30 days 0	days	30 days	0%	Tue 1/9/20	Wed 30/9/20	NA	NA	Mon 20/12/21	Tue 18/1/22	475 days	a 1 days	161		
163	Submit and endorse by Gov. Depts and PM	14 days 0	days	14 days	0%	Thu 1/10/20	Wed 14/10/20	NA	NA	Wed 19/1/22	Tue 1/2/22	475 days	1 days	162		
164	Supervise the SI Carry Out on Site	199 days 44	4 days	155 days	22%	Sat 10/8/19	Sat 24/10/20	Sat 10/8/19	NA	Sat 10/8/19	Tue 11/1/22	444 days	4 days	161		
165	Submit SI Report(Draft) for Comment	21 days 0	days	21 days	0%	Sun 25/10/20	Sat 14/11/20	NA	NA	Wed 12/1/22	Tue 1/2/22	444 days	1 days	164		
166	Submit and endorse SI Report(Final) by Project Manager	28 days 0	days	28 days	0%	Sun 15/11/20	Sat 12/12/20	NA	NA	Wed 2/2/22	Tue 1/3/22	444 days	1 days	165,163		
167	Lifts (LT3 & LT4), Staircase and Associated Works (Structure)	431 days 10	65.12 days	265.88 days	0%	Thu 12/9/19	Sun 15/11/20	Thu 12/9/19	NA	Thu 12/9/19	Thu 3/12/20	18 days			_	
168	Prepare AIP Submission with E&M provision (Draft)	75 days 75	5 days	0 days	100%	Thu 12/9/19	Mon 25/11/19	Thu 12/9/19	Mon 25/11/	Thu 12/9/19	Mon 25/11/19	0 days	3 days			
169	Submit & endorse by PM and Statutory Authorities/Gov. Dept	21 days 2		0 days	100%	Tue 26/11/19	Mon 16/12/19	Tue 26/11/19	Mon	Tue 26/11/19	Mon 16/12/19	0 days	0.5 days	168		
170	Submit & endorse by Statutory Authorities/Gov. Dept	22 days 22		0 days	100%	Fri 28/2/20		Fri 28/2/20	16/12/19	Fri 28/2/20	Fri 20/3/20		2 days	168		
71	Prepare AIP and ICE certification (Final)	25 days 0		25 days	0%	Mon 29/6/20	Thu 23/7/20			Fri 10/7/20	Mon 3/8/20	11 days		168,169,170,44F		
.72	Prepare DDA and ICE certification (Draft)	50 days 0	-	50 days	0%	Thu 4/6/20	Thu 23/7/20			Mon 15/6/20	Mon 3/8/20	11 days		168,171FF	Ļ	
	Submit & endorse by PM and Statutory Authorities/Gov. Dept				0%			NA		Tue 4/8/20	Tue 22/9/20			172		
173		50 days 0		50 days		Fri 24/7/20						11 days				
174	Prepare DDA for and ICE certification (Final)	15 days 0	uays	15 days	0%	Sat 12/9/20	Sat 26/9/20	NA	NA	Wed 30/9/20	Wed 14/10/20	18 days	1 days	173,145FF,171F		
itle: Re	ev.11 Prog with Progress	Summary	I		Inactive M			Duration-on	-		Start-only		C		nal Mil	lesto
		Project Summa Inactive Task	ary [Inactive Si Manual Ta			 Manual Surr Manual Surr 			 Finish-only External Task 	s	3	Dead		
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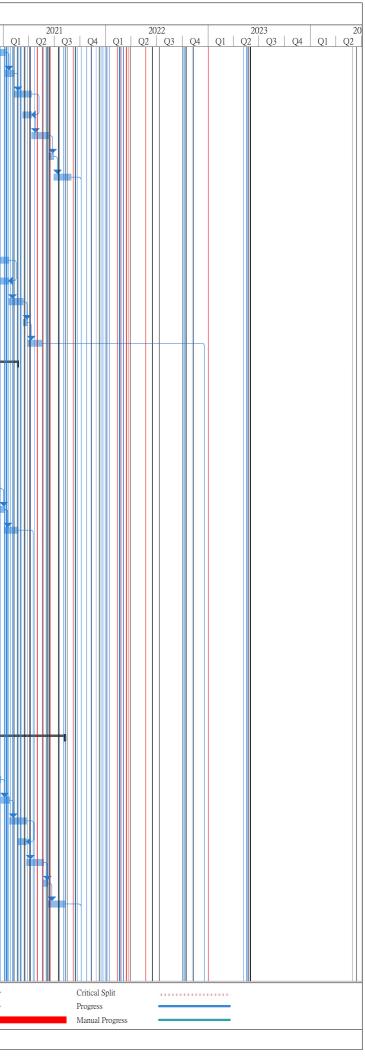


) T	ask Name		Duration	Actual	Romaining	Dhusiool 01	Farly Start		ract No. ED/	-		Late Einich	Total	ТР л	Predecessors	20	20
1			Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors	Q2	
175	Submit & endorse by PM and S	tatutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Sun 27/9/20	Sun 15/11/20	NA	NA	Thu 15/10/20	Thu 3/12/20	18 days	3 days	174		
.76	Noise barrier fronting to 4B5 at Rd	D3A & Bus Lay By (Section 5&9)	338 days	215.23 days	122.77 days	0%	Mon 4/11/19	Tue 6/10/20	Mon 4/11/19	NA	Mon 4/11/19	Wed 7/10/20	1 day				#
177	Prepare AIP Submission (Draft)		38 days	38 days	0 days	100%	Mon 4/11/19	Wed 11/12/19	Mon 4/11/19	Wed 11/12/	Mon 4/11/19	Wed 11/12/19	0 days	2 days			
178	Submit & endorse by PM and S	tatutory Authorities/Gov. Dept	167 days	162 days	5 days	97%	Thu 12/12/19	Tue 26/5/20	Thu 12/12/19	NA	Thu 12/12/19	Wed 27/5/20	1 day		177	┢	
179	Prepare AIP and ICE certification	on (Final)	56 days	31 days	25 days	55%	Wed 22/4/20	Tue 16/6/20	Wed 22/4/20	NA	Wed 22/4/20	Wed 17/6/20	1 day		178FF+21 days		
180	Prepare DDA Subm (Draft)		18 days	18 days	0 days	100%	Wed 1/4/20	Sat 18/4/20	Wed 1/4/20	Sat 18/4/20	Wed 1/4/20	Sat 18/4/20	0 days	0.5 days			
181	Submit & endorse by PM		55 days	35 days	20 days	64%	Sat 18/4/20	Thu 11/6/20	Sat 18/4/20	NA	Sat 18/4/20	Thu 6/8/20	56 days		180		
182	Submit & endorse by Statutory	Authorities/Gov Dent	50 days	-	50 days	0%	Wed 17/6/20		NA	NA	Thu 18/6/20	Thu 6/8/20	1 day		180,179		
183		ication (Final) (Original Contract Scope)	12 days		12 days	0%	Thu 6/8/20	Mon 17/8/20		NA	Fri 7/8/20	Tue 18/8/20	1 day	1 days	181,182		
	-			-													
184	Submit & endorse by PM and S	tatutory Authorities/Gov. Dept	50 days	-	50 days	0%	Tue 18/8/20	Tue 6/10/20		NA	Wed 19/8/20	Wed 7/10/20	1 day	1 days	183		
185	Decking for Underpass (Rd L14)		304 days	0 days	304 days	0%	Mon 20/7/20	Wed 19/5/21	NA	NA	Fri 31/7/20	Sun 30/5/21	11 days				ľ
186	Structure Prepare AIP and ICE	certification (Draft)	25 days	0 days	25 days	0%	Mon 20/7/20	Thu 13/8/20	NA	NA	Fri 31/7/20	Mon 24/8/20	11 days	3 days	44FF+12 days		
187	Submit & endorse by PM and S	tatutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Fri 14/8/20	Fri 2/10/20	NA	NA	Tue 25/8/20	Tue 13/10/20	11 days	0.5 days	186		
188	Prepare AIP and ICE certification	on (Final)	15 days	0 days	15 days	0%	Sat 3/10/20	Sat 17/10/20	NA	NA	Wed 14/10/20	Wed 28/10/20	11 days	1 day	186,187		
189	Prepare DDA and ICE certification	ion (Draft)	89 days	0 days	89 days	0%	Sun 18/10/20	Thu 14/1/21	NA	NA	Thu 29/10/20	Mon 25/1/21	11 days	1 day	186,188		
190	Submit & endorse by PM and S	tatutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Fri 15/1/21	Fri 5/3/21	NA	NA	Tue 26/1/21	Tue 16/3/21	11 days	0.5 days	189		
191	Prepare DDA and ICE certificat	ion (Final)	25 days	0 days	25 days	0%	Sat 6/3/21	Tue 30/3/21	NA	NA	Wed 17/3/21	Sat 10/4/21	11 days	2 days	190		
192	Submit & endorse by PM and S	tatutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Wed 31/3/21	Wed 19/5/21	NA	NA	Sun 11/4/21	Sun 30/5/21	11 days	1 day	191		
193	Road D3 Bridge & Approach Ram	DS	439 days	358.08 days	80.92 days	0%	Thu 30/5/19	Mon 10/8/20	Thu 30/5/19	NA	Thu 30/5/19	Thu 8/10/20	59 days		4		Щ
194	D3 Bridge Substructure			358.08 days		0%	Thu 30/5/19	Mon 10/8/20	Thu 30/5/19		Thu 30/5/19	Thu 8/10/20	59 days				
195	Prepare AIP and ICE certific	ration (Draft)	66 days	-	0 days	100%	Thu 30/5/19	Sat 3/8/19	Thu 30/5/19		Thu 30/5/19	Sat 3/8/19		3 days	4		
	-														105 120		
196	-	d Statutory Authorities/Gov. Dept	15 days	-	0 days	100%	Mon 5/8/19		Mon 5/8/19	Mon 19/8/19		Mon 19/8/19	0 days	1 days	195,138		
197	Prepare AIP and ICE certific		30 days	-	0 days	100%	Mon 23/12/19		Mon 23/12/19			Tue 21/1/20	0 days	0 days	195,196		
198	Prepare DDA and ICE certif	ication (Draft)	106 days	106 days	0 days	100%	Fri 19/7/19	Sun 17/11/19	Fri 19/7/19	Sun 17/11/19	Fri 19/7/19	Sun 17/11/19	0 days	5 days	195		
199	Submit & endorse by PM		17 days	17 days	0 days	100%	Wed 20/11/19	Fri 6/12/19	Wed 20/11/19	Fri 6/12/19	Wed 20/11/19	Fri 6/12/19	0 days	3 days	198		
200	Submit & endorse by Statute	ory Authorities/Gov. Dept	45 days	45 days	0 days	100%	Fri 24/1/20	Wed 18/3/20	Fri 24/1/20	Wed 18/3/20	Fri 24/1/20	Wed 18/3/20	0 days	1 days	198		
201	Prepare DDA for and ICE co (Contractor Bear DDA Appr	rtification (Include P02-BP2 Remedial Pile)	105 days	75 days	30 days	71%	Mon 9/3/20	Sun 21/6/20	Mon 9/3/20	NA	Mon 9/3/20	Wed 19/8/20	59 days	1 days	200		
202		d Statutory Authorities/Gov. Dept (Contractor Bear	50 days	0 days	50 days	0%	Mon 22/6/20	Mon 10/8/20	NA	NA	Thu 20/8/20	Thu 8/10/20	59 days	1 days	201		1
203	D3 Bridge Superstructure		728 days	370.67 days	357.33 days	0%	Thu 30/5/19	Wed 26/5/21	Thu 30/5/19	NA	Thu 30/5/19	Wed 21/7/21	56 days				₩
204	Prepare AIP and ICE certification	on (Draft)	101 days	101 days	0 days	100%	Thu 30/5/19	Sat 7/9/19	Thu 30/5/19	Sat 7/9/19	Thu 30/5/19	Sat 7/9/19	0 days	1 day			
205	Submit & endorse by PM and S	tatutory Authorities/Gov. Dept	19 days	19 days	0 days	100%	Mon 9/9/19	Fri 27/9/19	Mon 9/9/19	Fri 27/9/19	Mon 9/9/19	Fri 27/9/19	0 days	1 day	204		
206	Prepare AIP and ICE certification	on (Final)	135 days	135 days	0 days	100%	Wed 20/11/19	Thu 2/4/20	Wed 20/11/19	Thu 2/4/20	Wed 20/11/19	Thu 2/4/20	0 days	3 days	205		
207	Prepare DDA and ICE certificat	ion (Draft)	222 days	222 days	0 days	100%	Fri 19/7/19	Tue 25/2/20	Fri 19/7/19	Tue 25/2/20	Fri 19/7/19	Tue 25/2/20	0 days	3 days	205		
208	Submit & endorse by PM		23 days	-	0 days	100%	Wed 26/2/20	Thu 19/3/20	Wed 26/2/20			Thu 19/3/20	-	2 days	207		
200	Submit & endorse by Statutory	Authoritics/Corr Dont	50 days		50 days	0%	Mon 29/6/20	Mon 17/8/20		NA	Thu 16/7/20	Thu 3/9/20	17 days		207,206FF+12 c		
		-	-	-													
210	Prepare DDA for and ICE certif		21 days		21 days	0%	Tue 18/8/20	Mon 7/9/20		NA	Fri 4/9/20	Thu 24/9/20	17 days		208,206,209		
211	Submit & endorse by PM and S		50 days	-	50 days	0%	Tue 8/9/20	Tue 27/10/20		NA	Fri 25/9/20	Fri 13/11/20	17 days		210		
212	Prepare AIP (E&M works) and	ICE certification (Draft)	32 days	-	32 days	0%	Thu 2/7/20	Sun 2/8/20	NA	NA	Thu 27/8/20	Sun 27/9/20	56 days	2 days			
213	Submit & endorse by PM and S	tatutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Mon 3/8/20	Sat 3/10/20	NA	NA	Mon 28/9/20	Sat 28/11/20	56 days	2 days	212		
214	Prepare AIP (E&M works) and	ICE certification (Final)	32 days	0 days	32 days	0%	Sun 4/10/20	Wed 4/11/20	NA	NA	Sun 29/11/20	Wed 30/12/20	56 days	2 days	213		
215	Submit & endorse by PM and S	tatutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Thu 5/11/20	Tue 5/1/21	NA	NA	Thu 31/12/20	Tue 2/3/21	56 days	2 days	214		
216	Prepare DDA (E&M works) and	l ICE certification (Draft)	32 days	0 days	32 days	0%	Sat 5/12/20	Tue 5/1/21	NA	NA	Sat 30/1/21	Tue 2/3/21	56 days	2 days	215FF		
217	Submit & endorse by PM and S	tatutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Wed 6/1/21	Mon 8/3/21	NA	NA	Wed 3/3/21	Mon 3/5/21	56 days	2 days	216		
218	Prepare DDA (E&M works) and	l ICE certification (Final)	17 days	0 days	17 days	0%	Tue 9/3/21	Thu 25/3/21	NA	NA	Tue 4/5/21	Thu 20/5/21	56 days	2 days	217		
219	Submit & endorse by PM and S		62 days	-	62 days	0%	Fri 26/3/21	Wed 26/5/21		NA	Fri 21/5/21	Wed 21/7/21	56 days		218		
			uujo		,,o		200721						2 5 aug 5				
	v.11 Prog with Progress	Task Split	Summary Project Sumi	mary		Inactive M Inactive S			Duration-on Manual Sun	ly 📃 1mary Rollup 🗖		Start-only Finish-only		C]		ernal Mil dline	esto
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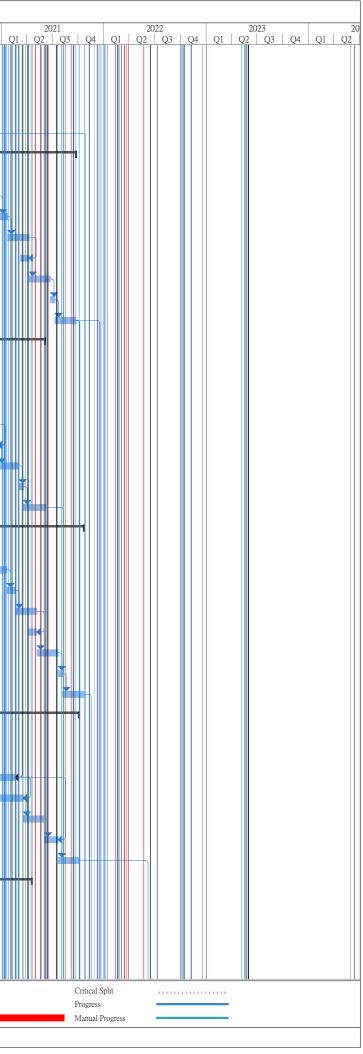
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	'ask Name		Duration	Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start			Late Finish	Total Slack	TRA	Predecessors		2020 Q3	
20	D3 North Approach Ramp (Structur			348.95 days		0%	Mon 3/6/19	Sat 4/7/20		NA	Mon 3/6/19	Thu 8/10/20	96 days				•	
221	Prepare AIP and ICE certificatio		51 days		0 days	100%	Mon 3/6/19	Tue 23/7/19		Tue 23/7/19		Tue 23/7/19		3 days	4			
222	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	100 days	100 days	0 days	100%	Thu 25/7/19	Fri 1/11/19	Thu 25/7/19	Fri 1/11/19	Thu 25/7/19	Fri 1/11/19	0 days	1 days	221			
223	Prepare AIP and ICE certificatio	n (Final)	14 days	14 days	0 days	100%	Tue 6/8/19	Thu 19/12/19	Tue 6/8/19	Thu 19/12/19	Tue 6/8/19	Thu 19/12/19	0 days	0 days	221,222			
224	Prepare DDA (Draft) with ICE c	certification	66 days	66 days	0 days	100%	Fri 19/7/19	Thu 20/2/20	Fri 19/7/19	Thu 20/2/20	Fri 19/7/19	Thu 20/2/20	0 days	5 days	221,223FF			
25	Submit & endorse by PM/Statuto	ory Authorities/Gov. Dept	31 days	31 days	0 days	100%	Mon 20/1/20	Mon 23/3/20	Mon 20/1/20	Mon 23/3/20	Mon 20/1/20	Mon 23/3/20	0 days	3 days	224			
26	Prepare DDA for and ICE certifi	ication (Final)	45 days	45 days	0 days	100%	Wed 1/4/20	Fri 15/5/20	Wed 1/4/20	Fri 15/5/20	Wed 1/4/20	Fri 15/5/20	0 days		225			
27	Submit & endorse by PM/Statuto	ory Authorities/Gov. Dept	50 days	6 days	44 days	12%	Sat 16/5/20	Sat 4/7/20	Sat 16/5/20	NA	Sat 16/5/20	Thu 8/10/20	96 days	0.5 days	226	1	┋	₽
28	D3 North Approach Ramp (E&M W	Vorks)	329 days	0 days	329 days	0%	Thu 2/7/20	Wed 26/5/21	NA	NA	Fri 27/11/20	Thu 21/10/21	148 days			-	┢┿┿╋	╉
9	Prepare AIP (E&M works) and I	CE certification (Draft)	32 days	0 days	32 days	0%	Thu 2/7/20	Sun 2/8/20	NA	NA	Fri 27/11/20	Mon 28/12/20	148 days	2 days		-		
30	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Mon 3/8/20	Sat 3/10/20	NA	NA	Tue 29/12/20	Sun 28/2/21	148 days	2 days	229	-		
1	Prepare AIP (E&M works) and I	CE certification (Final)	32 days	0 days	32 days	0%	Sun 4/10/20	Wed 4/11/20	NA	NA	Mon 1/3/21	Thu 1/4/21	148 days	2 days	230	-		
2	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Thu 5/11/20	Tue 5/1/21	NA	NA	Fri 2/4/21	Wed 2/6/21	148 days	2 days	231	-		
3	Prepare DDA (E&M works) and		32 days		32 days	0%	Sat 5/12/20		NA	NA	Sun 2/5/21	Wed 2/6/21	148 days		232FF	-		
1	Submit & endorse by PM and St		62 days		62 days	0%	Wed 6/1/21		NA	NA	Thu 3/6/21	Tue 3/8/21	148 days		233	-		
5	Prepare DDA (E&M works) and		17 days	-	17 days	0%	Tue 9/3/21	Thu 25/3/21		NA	Wed 4/8/21	Fri 20/8/21	148 days		233	-		
5	Submit & endorse by PM and St		62 days		62 days	0%	Fri 26/3/21	Wed 26/5/21		NA	Sat 21/8/21	Thu 21/10/21	148 days		234	_		
,	D3 South Approach Ramp	aaaory munomico/00%. Dept		322.64 days	-	0%	Thu 30/5/19			NA	Thu 30/5/19	Tue 16/2/21	122 days		233			
	Prepare AIP and ICE certificatio	n (Draft)	96 days	_	0 days	100%	Thu 30/5/19 Thu 30/5/19	Mon 2/9/19		NA Mon 2/9/19		Mon 2/9/19						
3	_				-								0 days		220			
	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	35 days		0 days	100%	Wed 25/9/19		Wed 25/9/19			Tue 29/10/19		1 day	238			
	Prepare AIP Submission (Final)		76 days		0 days	100%	Fri 7/2/20	Mon 4/5/20	Fri 7/2/20	Mon 4/5/20		Mon 4/5/20		1 day	238,239			
	Prepare DDA and ICE certificati		50 days	-	0 days	100%	Wed 1/4/20	Wed 20/5/20	Wed 1/4/20	Wed 20/5/20		Wed 20/5/20		5 days	240FF+15 days			
2	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	60 days	2 days	58 days	3%	Thu 21/5/20	Sun 19/7/20	Thu 21/5/20	NA	Thu 21/5/20	Wed 18/11/20	122 days	1 day	238,241			
3	Prepare DDA for and ICE certifi	ication (Final)	30 days	0 days	30 days	0%	Mon 20/7/20	Tue 18/8/20	NA	NA	Thu 19/11/20	Fri 18/12/20	122 days	1 day	242,240FF+12	1		1
	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	60 days	0 days	60 days	0%	Wed 19/8/20	Sat 17/10/20	NA	NA	Sat 19/12/20	Tue 16/2/21	122 days	1 day	243			í
	D3 South Approach Ramp (E&M W	Vorks)	392 days	0 days	392 days	0%	Sat 23/5/20	Fri 18/6/21	NA	NA	Wed 18/11/20	Tue 14/12/21	179 days					1
5	Prepare AIP (E&M works) and I	CE certification (Draft)	31 days	0 days	31 days	0%	Sat 23/5/20	Mon 22/6/20	NA	NA	Wed 18/11/20	Fri 18/12/20	179 days	1 day			4	
	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	76 days	0 days	76 days	0%	Tue 23/6/20	Sun 6/9/20	NA	NA	Sat 19/12/20	Thu 4/3/21	179 days	1 day	246			ŀ
	Prepare AIP (E&M works) and I	CE certification (Final)	31 days	0 days	31 days	0%	Mon 7/9/20	Wed 7/10/20	NA	NA	Fri 5/3/21	Sun 4/4/21	179 days	1 day	247	-	- III i	Ì
)	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	76 days	0 days	76 days	0%	Thu 8/10/20	Tue 22/12/20	NA	NA	Mon 5/4/21	Sat 19/6/21	179 days	1 day	248	-		
)	Prepare DDA (E&M works) and	ICE certification (Draft)	31 days	0 days	31 days	0%	Sun 22/11/20	Tue 22/12/20	NA	NA	Thu 20/5/21	Sat 19/6/21	179 days	1 day	249FF	-		
	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	76 days	0 days	76 days	0%	Wed 23/12/20	Mon 8/3/21	NA	NA	Sun 20/6/21	Fri 3/9/21	179 days	1 day	250			
2	Prepare DDA (E&M works) and	ICE certification (Final)	26 days	0 days	26 days	0%	Tue 9/3/21	Sat 3/4/21	NA	NA	Sat 4/9/21	Wed 29/9/21	179 days	1 day	251	-		
3	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	76 days	0 days	76 days	0%	Sun 4/4/21	Fri 18/6/21	NA	NA	Thu 30/9/21	Tue 14/12/21	179 days	1 day	252	-		
	Road D3 Underpass and Depressed	Road	823 days	236.99 days	586.01 days	0%	Thu 30/5/19	Sun 29/8/21	Thu 30/5/19	NA	Thu 30/5/19	Wed 11/1/23	500 days				┥╫╫┠╴	-
5	Underpass (Structure)			320.41 days	-	0%	Thu 30/5/19	Sat 26/9/20	Thu 30/5/19		Thu 30/5/19	Wed 2/12/20	67 days				┥╫╫┡	
5	Prepare AIP and ICE certification	ation (Draft)	96 days		0 days	100%	Thu 30/5/19	Mon 2/9/19	Thu 30/5/19		Thu 30/5/19	Mon 2/9/19		3 days	4	-		
,	-	l Statutory Authorities/Gov. Dept	17 days	-	0 days	100%	Tue 3/9/19	Thu 19/9/19	Tue 3/9/19	Thu 19/9/19		Thu 19/9/19		1 days	256	-		
3	Prepare AIP and ICE certifica	-	84 days		0 days	100%	Tue 14/1/20	Mon 6/4/20	Tue 14/1/20	Mon 6/4/20		Mon 6/4/20		2 days	256,257			
	Prepare DDA (Draft) Prepara			156 days	0 days	100%	Tue 3/9/19	Wed 5/2/20	Tue 3/9/19		Tue 3/9/19	Wed 5/2/20		3 days	256	-		
		uron rse by PM & Statutory Authorities/Gov. Dept	150 days	-	135 days	20%	Thu 6/2/20	Thu 23/7/20	Thu 6/2/20	NA	Thu 6/2/20	Mon 28/9/20						
)				-	-									0.5 days		a		
	Prepare DDA for and ICE cer		15 days		15 days	0%	Fri 24/7/20	Fri 7/8/20	NA	NA	Tue 29/9/20	Tue 13/10/20	67 days		260,258FF+21			
	-	d Statutory Authorities/Gov. Dept	50 days	-	50 days	0%	Sat 8/8/20		NA	NA	Wed 14/10/20	Wed 2/12/20	67 days	I day	261			1
3	Underpass (E&M Works)		392 days	-	392 days	0%	Mon 3/8/20	Sun 29/8/21		NA	Tue 10/11/20	Wed 11/1/23	99 days					1
	Prepare AIP (E&M works) and	nd ICE certification (Draft)	32 days	0 days	32 days	0%	Mon 5/10/20	Thu 5/11/20	NA	NA	Tue 10/11/20	Fri 11/12/20	36 days	2 days				
e: Rev	v.11 Prog with Progress	Task	Summary				Milestone 🔷		Duration-on			Start-only		C		ternal Mi	ilestone	_
	2-May-20	Split Milestone	Project Sum Inactive Tas			Inactive S	Summary		 Manual Sun Manual Sun 	nmary Rollup 🖕		Finish-only External Task		3	Dea	adline		
		IVITICSTOTIC V	macuve ras	Λ.		ivianual	1.45%		Ivianual Sun	uutidi y		 External Lask 	2		Cri	acal		



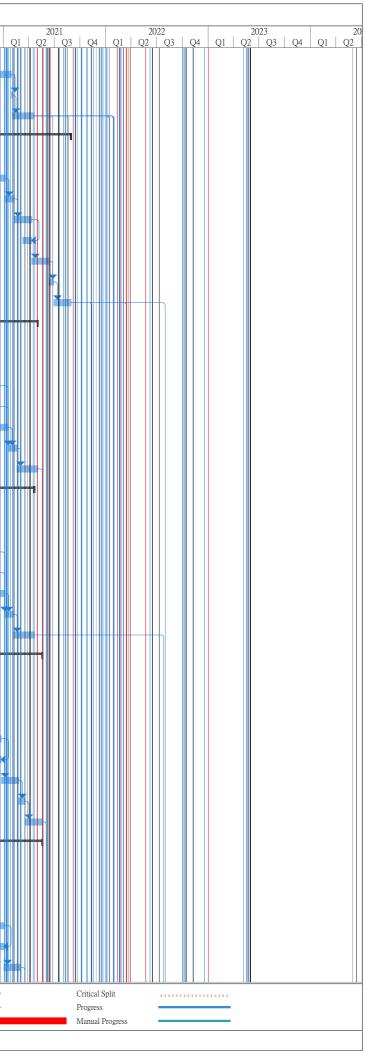
	ask Name	Duration	Actual	Remaining	Physical %	Early Start	Early Finish	Actual Start			Late Finish	Total TRA	Predecessors	202	20	
]	Duration	Duration	Complete							Slack			20 Q3	Q
265	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Fri 6/11/20	Wed 6/1/21	NA	NA	Sat 12/12/20	Thu 11/2/21	36 days 2 days	264			
266	Prepare AIP (E&M works) and ICE certification (Final)	32 days	0 days	32 days	0%	Thu 7/1/21	Sun 7/2/21	NA	NA	Fri 12/2/21	Mon 15/3/21	36 days 2 days	265			
267	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Mon 8/2/21	Sat 10/4/21	NA	NA	Tue 16/3/21	Sun 16/5/21	36 days 2 days	266			
268	Prepare DDA (E&M works) and ICE certification (Draft)	32 days	0 days	32 days	0%	Wed 10/3/21	Sat 10/4/21	NA	NA	Thu 15/4/21	Sun 16/5/21	36 days 2 days	267FF			
269	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Sun 11/4/21	Fri 11/6/21	NA	NA	Mon 17/5/21	Sat 17/7/21	36 days 2 days	268			
270	Prepare DDA (E&M works) and ICE certification (Final)	17 days	0 days	17 days	0%	Sat 12/6/21	Mon 28/6/21	NA	NA	Sun 18/7/21	Tue 3/8/21	36 days 2 days	269			
271	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Tue 29/6/21	Sun 29/8/21	NA	NA	Wed 4/8/21	Mon 4/10/21	36 days 2 days	270			
272	Prepare AIP (E&M works) and Architectural Finishes of of Underpass (Road	31 days	0 days	31 days	0%	Mon 3/8/20	Wed 2/9/20	NA	NA	Thu 31/3/22	Sat 30/4/22	605 days 1 day				
273	L14) and ICE certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept	51 days	0 days	51 days	0%	Thu 3/9/20	Fri 23/10/20	NA	NA	Sun 1/5/22	Mon 20/6/22	605 days 1 day	272			
274	Prepare AIP (E&M works)and Architectural Finishes of of Underpass (Road	14 days	0 days	14 days	0%	Sat 24/10/20	Fri 6/11/20	NA	NA	Tue 21/6/22	Mon 4/7/22	605 days 2 days	273			
275	L14) and ICE certification (Final) Submit & endorse by PM and Statutory Authorities/Gov. Dept	74 days	0 davs	74 days	0%	Sat 7/11/20	Tue 19/1/21	NA	NA	Tue 5/7/22	Fri 16/9/22	605 days 1 day	274			
276	Prepare DDA (E&M works) and Architectural Finishes of of Underpass (Road	31 days (-	31 days	0%	Sun 20/12/20		NA	NA	Wed 17/8/22	Fri 16/9/22	605 days 1 day	275FF			
277	L14) and ICE certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept	51 days (-	51 days	0%	Wed 20/1/21	Thu 11/3/21		NA	Sat 17/9/22	Sun 6/11/22	605 days 1 day	27511	-		
278	Prepare DDA (E&M works) and Architectural Finishes of of Underpass (Road L14) and ICE certification (Final)	15 days (-	15 days	0%	Fri 12/3/21		NA	NA	Mon 7/11/22	Mon 21/11/22		277			
279	Submit & endorse by PM and Statutory Authorities/Gov. Dept	51 days (-	51 days	0%	Sat 27/3/21		NA	NA	Tue 22/11/22	Wed 11/1/23	605 days 1 day	278			
280	E&M Work for Pump House of Underpass D3	364 days	83.71 days	280.29 days	0%	Mon 24/2/20	Sun 21/2/21	Mon 24/2/20	NA	Mon 24/2/20	Wed 18/8/21	178 days				
281	Prepare AIP (E&M works) Submission (Draft)	11 days	11 days	0 days	0%	Mon 24/2/20	Thu 5/3/20	Mon 24/2/20	Thu 5/3/20	Mon 24/2/20	Thu 5/3/20	0 days 2 days				
282	Submit & endorse by PM and Statutory Authorities/Gov. Dept	160 days	78 days	82 days	49%	Fri 6/3/20	Wed 12/8/20	Fri 6/3/20	NA	Fri 6/3/20	Sat 15/8/20	3 days 2 days	281			
283	Prepare AIP (E&M works) and ICE certification (Final)	21 days	0 days	21 days	0%	Thu 13/8/20	Wed 2/9/20	NA	NA	Sun 16/8/20	Sat 5/9/20	3 days 2 days	282,44FF+12 da			
284	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Thu 3/9/20	Thu 22/10/20	NA	NA	Sun 6/9/20	Sun 25/10/20	3 days 2 days	283			
285	Prepare DDA (E&M works) and ICE certification (Draft)	30 days	0 days	30 days	0%	Wed 30/9/20	Thu 29/10/20	NA	NA	Sat 3/10/20	Sun 1/11/20	3 days 2 days	284FF+7 days			
286	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Fri 30/10/20	Fri 18/12/20	NA	NA	Mon 2/11/20	Mon 21/12/20	3 days 2 days	285			
287	Prepare DDA (E&M works) and ICE certification (Final)	15 days	0 days	15 days	0%	Sat 19/12/20	Sat 2/1/21	NA	NA	Tue 22/12/20	Tue 5/1/21	3 days 2 days	286			
288	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Sun 3/1/21	Sun 21/2/21	NA	NA	Wed 30/6/21	Wed 18/8/21	178 days 2 days	287			
289	Depressed Road (North) Structure	463 days	335.18 days	127.82 days	0%	Thu 16/5/19	Thu 20/8/20	Thu 16/5/19	NA	Thu 16/5/19	Thu 11/5/23	994 days				
290	Prepare AIP and ICE certification (Draft)	65 days	65 days	0 days	100%	Thu 16/5/19	Fri 2/8/19	Thu 16/5/19	Fri 2/8/19	Thu 16/5/19	Fri 2/8/19	0 days 1 days	4			
291	Submit & endorse by PM and Statutory Authorities/Gov. Dept	33 days	33 days	0 days	100%	Sat 3/8/19	Wed 4/9/19	Sat 3/8/19	Wed 4/9/19	Sat 3/8/19	Wed 4/9/19	0 days 2 days	290			
292	Prepare AIP and ICE certification (Final)	44 days	44 davs	0 days	100%	Mon 9/12/19	Tue 21/1/20	Mon 9/12/19	Tue 21/1/20	Mon 9/12/19	Tue 21/1/20	0 days 0 days	291			
293	Prepare DDA and ICE certification (Draft)	57 days	-	0 days	100%	Tue 24/9/19		Tue 24/9/19			Tue 19/11/19	0 days 5 days	290			
294	Submit & endorse by PM	17 days	-	0 days	100%	Tue 19/11/19	Thu 5/12/19	Tue 19/11/19			Thu 5/12/19	0 days 1 day	293	-		
295	Submit & endorse by Statutory Authorities/Gov. Dept	20 days		0 days	100%	Wed 19/2/20	Mon 9/3/20	Wed 19/2/20			Mon 9/3/20		293			
296	Prepare DDA for and ICE certification (Final)	30 days		30 days	0%	Sat 23/5/20	Sun 21/6/20		NA	Sat 11/2/23	Sun 12/3/23	994 days 3 days	294,292FF,295			
297	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days (60 days	0%	Mon 22/6/20	Thu 20/8/20		NA	Mon 13/3/23	Thu 11/5/23	994 days 5 days	296			
298	Depressed Road (North) E&M Works	322 days	-	322 days	0%	Mon 21/9/20		NA	NA	Tue 17/11/20	Mon 4/10/21	57 days				
299	Prepare AIP (E&M works) and ICE certification (Draft)	31 days	0 days	31 days	0%	Mon 21/9/20	Wed 21/10/20	NA	NA	Tue 17/11/20	Thu 17/12/20	57 days 1 day				
300	Submit & endorse by PM and Statutory Authorities/Gov. Dept	61 days (0 days	61 days	0%	Thu 22/10/20	Mon 21/12/20	NA	NA	Fri 18/12/20	Tue 16/2/21	57 days 1 day	299			
301	Prepare AIP (E&M works) and ICE certification (Final)	31 days (0 days	31 days	0%	Tue 22/12/20	Thu 21/1/21	NA	NA	Wed 17/2/21	Fri 19/3/21	57 days 1 day	300			
302	Submit & endorse by PM and Statutory Authorities/Gov. Dept	61 days (0 days	61 days	0%	Fri 22/1/21	Tue 23/3/21	NA	NA	Sat 20/3/21	Wed 19/5/21	57 days 1 day	301			
303	Prepare DDA (E&M works) and ICE certification (Draft)	31 days	0 days	31 days	0%	Sun 21/2/21	Tue 23/3/21	NA	NA	Mon 19/4/21	Wed 19/5/21	57 days 1 day	302FF			
304	Submit & endorse by PM and Statutory Authorities/Gov. Dept	61 days	0 days	61 days	0%	Wed 24/3/21	Sun 23/5/21	NA	NA	Thu 20/5/21	Mon 19/7/21	57 days 1 day	303			
305	Prepare DDA (E&M works) and ICE certification (Final)	16 days	0 days	16 days	0%	Mon 24/5/21	Tue 8/6/21	NA	NA	Tue 20/7/21	Wed 4/8/21	57 days 1 day	304			
306	Submit & endorse by PM and Statutory Authorities/Gov. Dept	61 days	0 days	61 days	0%	Wed 9/6/21	Sun 8/8/21	NA	NA	Thu 5/8/21	Mon 4/10/21	57 days 1 day	305			
307	Depressed Road (South) and Substructure of Elevated Landscape Deck	463 days 2	333.16 days	129.84 days	0%	Mon 10/6/19	Mon 14/9/20	Mon 10/6/19	NA	Mon 10/6/19	Thu 15/10/20	31 days				
308	Prepare AIP and ICE certification (Draft)	54 days		0 days	100%	Mon 10/6/19	Fri 2/8/19	Mon 10/6/19		Mon 10/6/19	Fri 2/8/19	0 days 1 days				
309	Submit & endorse by PM and Statutory Authorities/Gov. Dept	81 days		0 days	100%	Sat 3/8/19	Tue 22/10/19		Tue 22/10/19		Tue 22/10/19	0 days 2 days	308			
		01 01/3 (-1	5 aug 0			1 40 22 10/17	5	100 220 10/13	540 510117						
	v.11 Prog with Progress Task Split	Summary Project Summ	narv		Inactive M			Duration-on Manual Sun	ly 📃 nmary Rollup 🗖		Start-only Finish-only	C 3		ernal Mile dline	estone	
as of 22	P-May-20 Split Milestone	Project Summ Inactive Task			Manual T			Manual Sun Manual Sun			External Task		Crit			
									e 7 of 36							—



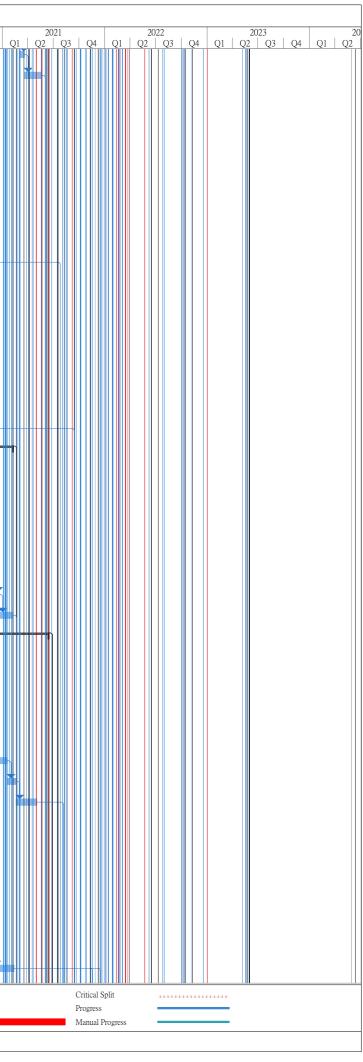
			-		-		-		ract No. ED/			-	-		-			
Ta	ask Name		Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors	202 Q2		3
310	Prepare AIP and ICE (certification	on (Final)	270 days	222 days	48 days	82%	Tue 15/10/19	Fri 10/7/20	Tue 15/10/19	NA	Tue 15/10/19	Mon 10/8/20	31 days	0 days	309,44FF+12 da		ŧ	Π
311	Prepare DDA certification (Draf	t)	27 days	27 days	0 days	100%	Mon 10/2/20	Sat 7/3/20	Mon 10/2/20	Sat 7/3/20	Mon 10/2/20	Sat 7/3/20	0 days	5 days	308	h		
312	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	75 days	24 days	51 days	32%	Wed 29/4/20	Thu 16/7/20	Wed 29/4/20	NA	Wed 29/4/20	Sun 16/8/20	31 days	1 days	311,310FF+6 days			
313	Prepare DDA for and ICE certifi	cation (Final)	10 days	0 days	10 days	0%	Fri 17/7/20	Sun 26/7/20	NA	NA	Mon 17/8/20	Wed 26/8/20	31 days	0.5 days			K	
314	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Mon 27/7/20	Mon 14/9/20	NA	NA	Thu 27/8/20	Thu 15/10/20	31 days	0.5 days	313			H
315	South Depressed Road (E&M Work	s)	382 days	0 days	382 days	0%	Mon 7/9/20	Thu 23/9/21	NA	NA	Fri 18/9/20	Mon 4/10/21	11 days			-		r
316	Prepare AIP (E&M works) and I	CE certification (Draft)	31 days	0 days	31 days	0%	Mon 7/9/20	Wed 7/10/20	NA	NA	Fri 18/9/20	Sun 18/10/20	11 days	1 day		-		
317	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	76 days	0 days	76 days	0%	Thu 8/10/20	Tue 22/12/20	NA	NA	Mon 19/10/20	Sat 2/1/21	11 days	1 day	316	-		
318	Prepare AIP (E&M works) and I	CE certification (Final)	31 days	0 days	31 days	0%	Wed 23/12/20	Fri 22/1/21	NA	NA	Sun 3/1/21	Tue 2/2/21	11 days	1 day	317	-		
19	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	76 days	0 days	76 days	0%	Sat 23/1/21	Thu 8/4/21	NA	NA	Wed 3/2/21	Mon 19/4/21	11 days	1 day	318	-		
320	Prepare DDA (E&M works) and	ICE certification (Draft)	31 days	0 days	31 days	0%	Tue 9/3/21	Thu 8/4/21	NA	NA	Sat 20/3/21	Mon 19/4/21	11 days	1 day	319FF	-		
321	Submit & endorse by PM and St		76 days		76 days	0%	Fri 9/4/21	Wed 23/6/21	NA	NA	Tue 20/4/21	Sun 4/7/21	11 days		320	-		
322	Prepare DDA (E&M works) and	-	16 days	-	16 days	0%	Thu 24/6/21	Fri 9/7/21	NA	NA	Mon 5/7/21	Tue 20/7/21	11 days		321	-		
323	Submit & endorse by PM and St		76 days		76 days	0%	Sat 10/7/21	Thu 23/9/21		NA	Wed 21/7/21	Mon 4/10/21	11 days	-	322			
24	Road Works (Civil Works)	autory Automics/Gov. Dept		196.01 days		0%	Tue 13/8/19	Fri 4/6/21		NA	Tue 13/8/19	Tue 14/12/21	193 days		522	-		
															20266 - 75 Jan	_		
325	Prepare AIP for At-grade Road I	33 and ICE certification (Draft)	57 days		0 days	100%	Tue 13/8/19	Tue 8/10/19		Tue 8/10/19		Tue 8/10/19		1 day	293SS+75 days			
26	Submit & endorse by PM		21 days		0 days	100%	Wed 9/10/19		Wed 9/10/19			Tue 29/10/19			325			
27	Submit & endorse by Statutory A	-	24 days		0 days	100%	Wed 30/10/19		Wed 30/10/19			Fri 22/11/19		1 day	325			
28	Prepare AIP for At-grade Road I	D3 and ICE certification (Final)	57 days	57 days	0 days	100%	Thu 5/3/20	Mon 4/5/20	Thu 5/3/20	Mon 4/5/20	Thu 5/3/20	Mon 4/5/20	0 days	0 days	326FS+12 days,327,44FF+			H
29	Prepare DDA for At-grade Road	D3 and ICE certification (Draft)	210 days	0 days	210 days	0%	Sat 23/5/20	Fri 18/12/20	NA	NA	Wed 2/12/20	Tue 29/6/21	193 days	5 days	325FS+100 days,328FF+6			H
0	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	75 days	0 days	75 days	0%	Sat 19/12/20	Wed 3/3/21	NA	NA	Wed 30/6/21	Sun 12/9/21	193 days	0.5 days	329			
1	Prepare DDA for At-grade Road	D3 and ICE certification (Final)	16 days	0 days	16 days	0%	Thu 4/3/21	Fri 19/3/21	NA	NA	Mon 13/9/21	Tue 28/9/21	193 days	1 day	330			
32	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	77 days	0 days	77 days	0%	Sat 20/3/21	Fri 4/6/21	NA	NA	Wed 29/9/21	Tue 14/12/21	193 days	2 days	331			
33	Remaining Road Works (E&M Wor	ks)	382 days	0 days	382 days	0%	Mon 5/10/20	Thu 21/10/21	NA	NA	Sat 13/2/21	Tue 1/3/22	131 days			-		
1	Prepare AIP (E&M works) and I	CE certification (Draft)	31 days	0 days	31 days	0%	Mon 5/10/20	Wed 4/11/20	NA	NA	Sat 13/2/21	Mon 15/3/21	131 days	1 day				
5	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	76 days	0 days	76 days	0%	Thu 5/11/20	Tue 19/1/21	NA	NA	Tue 16/3/21	Sun 30/5/21	131 days	1 day	334	-		
6	Prepare AIP (E&M works) and I	CE certification (Final)	31 days	0 days	31 days	0%	Wed 20/1/21	Fri 19/2/21	NA	NA	Mon 31/5/21	Wed 30/6/21	131 days	1 day	335	-		
7	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	76 days	0 days	76 days	0%	Sat 20/2/21	Thu 6/5/21	NA	NA	Thu 1/7/21	Tue 14/9/21	131 days	1 day	336	-		
8	Prepare DDA (E&M works) and	ICE certification (Draft)	31 days	0 days	31 days	0%	Tue 6/4/21	Thu 6/5/21	NA	NA	Sun 15/8/21	Tue 14/9/21	131 days	1 day	337FF	-		
9	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	76 days	0 days	76 days	0%	Fri 7/5/21	Wed 21/7/21	NA	NA	Wed 15/9/21	Mon 29/11/21	131 days	1 day	338	~		
0	Prepare DDA (E&M works) and	ICE certification (Final)	16 days	0 days	16 days	0%	Thu 22/7/21	Fri 6/8/21	NA	NA	Tue 30/11/21	Wed 15/12/21	131 days	1 day	339	-		
1	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	76 days	0 days	76 days	0%	Sat 7/8/21	Thu 21/10/21	NA	NA	Thu 16/12/21	Tue 1/3/22	131 days	1 day	340	-		
2	Road L12d Works (Roadworks)			261.27 days		0%	Tue 6/8/19	Mon 4/10/21		NA	Tue 6/8/19	Tue 28/2/23	512 days				Щ	
3	Prepare AIP for Road L12d Sub	nission (Draft)	64 days		0 days	100%	Tue 6/8/19		Tue 6/8/19	Tue 8/10/19		Tue 8/10/19	0 days		325	~		
4	Submit & endorse by PM and St			227 days	150 days	60%	Wed 9/10/19		Wed 9/10/19		Wed 9/10/19	Tue 15/3/22	512 days		525	_		
	-														242 44EE 10	_		
5	(Final)	lude E&M Provision Works) and ICE certification			120 days	0%	Tue 20/10/20	Tue 16/2/21		NA	Wed 16/3/22	Wed 13/7/22	512 days		343,44FF+12 days,344	_		
-6	(Draft)	nclude E&M Provision Works) and ICE certificat			120 days	0%	Thu 19/11/20		NA	NA	Fri 15/4/22	Fri 12/8/22	512 days		343FS+260 days,345FF+30	_		
.7	Submit & endorse by PM and St		75 days		75 days	0%	Fri 19/3/21	Tue 1/6/21	NA	NA	Sat 13/8/22	Wed 26/10/22		0.5 days	346			
8	Prepare DDA for Road L12d (In (Final)	clude E&M Provision Works) and ICE certification	ion 50 days	0 days	50 days	0%	Wed 2/6/21	Wed 21/7/21		NA	Thu 27/10/22	Thu 15/12/22	512 days	0 days	347,345FF			
)	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	75 days	0 days	75 days	0%	Thu 22/7/21	Mon 4/10/21	NA	NA	Fri 16/12/22	Tue 28/2/23	512 days	0 days	348			
)	Road Lighting of Road D3 (E&M)		469 days	129.19 days	339.81 days	0%	Mon 6/1/20	Sun 18/4/21	Mon 6/1/20	NA	Mon 6/1/20	Sun 1/8/21	105 days					r
1	Prepare AIP (E&M works) Subr	nission (Draft)	30 days	30 days	0 days	100%	Mon 6/1/20	Tue 4/2/20	Mon 6/1/20	Tue 4/2/20	Mon 6/1/20	Tue 4/2/20	0 days	2 days				
2	Submit & endorse by Statutory A	Authorities/Gov. Dept and PM	190 days	108 days	82 days	57%	Wed 5/2/20	Wed 12/8/20	Wed 5/2/20	NA	Wed 5/2/20	Wed 25/11/20	105 days		351			l
3	Prepare AIP (E&M works) and I	CE certification (Final)	32 days	0 days	32 days	0%	Thu 13/8/20	Sun 13/9/20	NA	NA	Thu 26/11/20	Sun 27/12/20	105 days	2 days	352			ł
+	Submit & endorse by PM and St	atutory Authorities/Gov. Dept	60 days	0 days	60 days	0%	Mon 14/9/20	Thu 12/11/20	NA	NA	Mon 28/12/20	Thu 25/2/21	105 days	2 days	353			
		Task	Summary			Inactive N	filestone 🔿		Duration-on	lv		Start-only		<u>с</u>	Fet	emal Mile	estone	L
	v.11 Prog with Progress -May-20	Split		imary		Inactive N				imary Rollup 💼		Finish-only		3		adline	-360110	ž
of 22				sk								External Tasl				tical		



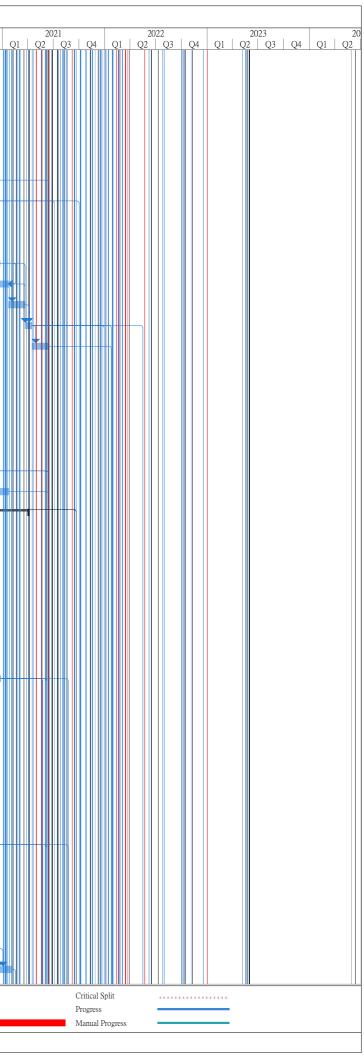
									ract No. ED/									
D Ta	ask Name		Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors	202 Q2		04
355	Prepare DDA (E&M works) as	nd ICE certification (Draft)	32 days	0 days	32 days	0%	Mon 12/10/20	Thu 12/11/20	NA	NA	Mon 25/1/21	Thu 25/2/21	105 days	2 days	354FF			Ř
356	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	77 days	0 days	77 days	0%	Fri 13/11/20	Thu 28/1/21	NA	NA	Fri 26/2/21	Thu 13/5/21	105 days	2 days	355			ľ
357	Prepare DDA (E&M works) as	nd ICE certification (Final)	3 days	0 days	3 days	0%	Fri 29/1/21	Sun 31/1/21	NA	NA	Fri 14/5/21	Sun 16/5/21	105 days	2 days	356			
358	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	77 days	0 days	77 days	0%	Mon 1/2/21	Sun 18/4/21	NA	NA	Mon 17/5/21	Sun 1/8/21	105 days	2 days	357			
359	Road L12d Works (E&M Works)		329 days	0 days	329 days	0%	Mon 5/10/20	Sun 29/8/21	NA	NA	Mon 1/2/21	Sun 26/12/21	119 days				r	
360	Prepare AIP (E&M works) and	d ICE certification (Draft)	32 days	0 days	32 days	0%	Mon 5/10/20	Thu 5/11/20	NA	NA	Mon 1/2/21	Thu 4/3/21	119 days	2 days				
361	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Fri 6/11/20	Wed 6/1/21	NA	NA	Fri 5/3/21	Wed 5/5/21	119 days	2 days	360			
362	Prepare AIP (E&M works) and	d ICE certification (Final)	32 days	0 days	32 days	0%	Thu 7/1/21	Sun 7/2/21	NA	NA	Thu 6/5/21	Sun 6/6/21	119 days	2 days	361			
363	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Mon 8/2/21	Sat 10/4/21	NA	NA	Mon 7/6/21	Sat 7/8/21	119 days	2 days	362			
364	Prepare DDA (E&M works) a	nd ICE certification (Draft)	32 days	0 days	32 days	0%	Wed 10/3/21	Sat 10/4/21	NA	NA	Wed 7/7/21	Sat 7/8/21	119 days	2 days	363FF			
365	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Sun 11/4/21	Fri 11/6/21	NA	NA	Sun 8/8/21	Fri 8/10/21	119 days	2 days	364			
366	Prepare DDA (E&M works) a	nd ICE certification (Final)	17 days	0 days	17 days	0%	Sat 12/6/21	Mon 28/6/21	NA	NA	Sat 9/10/21	Mon 25/10/21	119 days	2 days	365			
367	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Tue 29/6/21	Sun 29/8/21	NA	NA	Tue 26/10/21	Sun 26/12/21	119 days	2 days	366			
368	Roadworks other than at-grade Ro	oad D3 and Road L12d (Civil Works)	609 days	238.54 days	370.46 days	0%	Mon 2/9/19	Sun 2/5/21	Mon 2/9/19	NA	Mon 2/9/19	Sun 23/5/21	21 days			┝╋╋┥		
369		rks other than at-grade Road D3 and Road L12d	36 days	36 days	0 days	100%	Mon 2/9/19	Mon 7/10/19	Mon 2/9/19	Mon 7/10/19	Mon 2/9/19	Mon 7/10/19	0 days	0.5 days				
370	(Draft) Submit & endorse by PM and	Statutory Authorities/Gov. Dept	288 days	228 days	60 days	79%	Tue 8/10/19	Tue 21/7/20	Tue 8/10/19	NA	Tue 8/10/19	Tue 11/8/20	21 days	0.5 days	369			
371		rks other than at-grade Road D3 and Road L12d	75 days	0 days	75 days	0%	Wed 22/7/20	Sun 4/10/20	NA	NA	Wed 12/8/20	Sun 25/10/20	21 days	0.5 days	370,44FF+12			
372		orks other than at-grade Road D3 and Road L12d	95 days		95 days	0%	Sat 1/8/20	Tue 3/11/20	NA	NA	Sat 22/8/20	Tue 24/11/20	21 days	1 day	days 371FF+30 days			
373	(Draft) Submit & endorse by PM and	Statutory Authorities/Gov. Dept	75 days	0 days	75 days	0%	Wed 4/11/20	Sun 17/1/21	NA	NA	Wed 25/11/20	Sun 7/2/21	21 days	0.5 days	372			-
374		orks other than at-grade Road D3 and Road L12d	30 days	0 days	30 days	0%	Mon 18/1/21	Tue 16/2/21	NA	NA	Mon 8/2/21	Tue 9/3/21	21 days	0.5 days	371,372,373			
375	(Final)	Statutory Authorities/Gov. Dept	75 days		75 days	0%	Wed 17/2/21		NA	NA	Wed 10/3/21	Sun 23/5/21	21 days	-	374			
376	-	nd Saltwater Pumping Station (Civil Works)		68.26 days	344.74 days	0%	Wed 4/3/20	Tue 20/4/21	Wed 4/3/20	NA	Wed 4/3/20	Fri 17/2/23	668 days			ЩЦ		
377	-	Sewerage and Saltwater Pumping Station (Draft)	46 days	-	0 days	100%	Wed 4/3/20	Sat 18/4/20	Wed 4/3/20	Sat 18/4/20	Wed 4/3/20	Sat 18/4/20	0 days					
378		Statutory Authorities/Gov. Dept	82 days		49 days	40%	Sat 18/4/20		Sat 18/4/20	NA	Sat 18/4/20	Mon 23/5/22	684 days		377			
379	-	Sewerage and Saltwater Pumping Station (Final)	75 days		75 days	0%	Thu 9/7/20	Mon 21/9/20			Tue 24/5/22	Sat 6/8/22	684 days		378			
380		Sewerage and Saltwater Pumping Station (Draft)	95 days	-	95 days	0%	Mon 20/7/20	Thu 22/10/20		NA	Thu 19/5/22	Sun 21/8/22	668 days		379FF+15 days			
381		Statutory Authorities/Gov. Dept	75 days	-	75 days	0%		Tue 5/1/21				Fri 4/11/22	668 days					ļ
382		Sewerage and Saltwater Pumping Station (Final)	30 days		30 days	0%	Wed 6/1/21		NA		Sat 5/11/22	Sun 4/12/22		-	379,380,381			
383		Statutory Authorities/Gov. Dept	75 days		75 days	0%	Fri 5/2/21	Tue 20/4/21		NA	Mon 5/12/22	Fri 17/2/23	668 days					
384	Road Lighting of Road other than		356 days		356 days	0%	Fri 29/5/20	Wed 19/5/21			Tue 2/6/20	Sun 23/5/21	4 days	0.5 4435	562			
385	Prepare AIP (E&M works) and		38 days		38 days	0%	Fri 29/5/20		NA		Tue 2/6/20	Thu 9/7/20		2 days				
386	· · · · ·	Statutory Authorities/Gov. Dept	77 days	-	77 days	0%	Mon 6/7/20	Sun 20/9/20		NA	Fri 10/7/20	Thu 24/9/20		2 days	385			
387	Prepare AIP (E&M works) and	v .	32 days		32 days	0%	Mon 21/9/20	Thu 22/10/20		NA	Fri 25/9/20	Mon 26/10/20		2 days	386			
388		Statutory Authorities/Gov. Dept	62 days		62 days	0%	Fri 23/10/20	Wed 23/12/20		NA	Tue 27/10/20	Sun 27/12/20		2 days	387			
	-																	
389	Prepare DDA (E&M works) at		32 days		32 days	0%	Sun 22/11/20	Wed 23/12/20			Thu 26/11/20	Sun 27/12/20		2 days	388FF 389			
390	-	Statutory Authorities/Gov. Dept	62 days		62 days	0%	Thu 24/12/20	Tue 23/2/21		NA	Mon 28/12/20	Sat 27/2/21		2 days	390			
391	Prepare DDA (E&M works) at		23 days		23 days		Wed 24/2/21	Thu 18/3/21 Wed 10/5/21		NA	Sun 28/2/21	Mon 22/3/21		2 days				
392	-	Statutory Authorities/Gov. Dept	62 days		62 days	0%	Fri 19/3/21	Wed 19/5/21		NA	Tue 23/3/21	Sun 23/5/21		2 days	391			
393	_	bad D3 and Road L12d (E&M Works)	322 days		322 days	0%	Thu 2/7/20	Wed 19/5/21		NA	Mon 6/7/20	Sun 23/5/21	4 days	1.1				
394	Prepare AIP (E&M works) and		31 days	-	31 days	0%	Thu 2/7/20		NA	NA	Mon 6/7/20	Wed 5/8/20		1 day	204			
395	-	Statutory Authorities/Gov. Dept	61 days		61 days	0%	Sun 2/8/20	Thu 1/10/20		NA	Thu 6/8/20	Mon 5/10/20		1 day	394			
396	Prepare AIP (E&M works) and		31 days		31 days	0%	Fri 2/10/20	Sun 1/11/20			Tue 6/10/20	Thu 5/11/20		1 day	395			
397	-	Statutory Authorities/Gov. Dept	61 days		61 days	0%	Mon 2/11/20		NA	NA	Fri 6/11/20	Tue 5/1/21		1 day	396			
398	Prepare DDA (E&M works) a		31 days		31 days	0%	Wed 2/12/20		NA	NA	Sun 6/12/20	Tue 5/1/21		1 day	397FF			
399	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	61 days	0 days	61 days	0%	Sat 2/1/21	Wed 3/3/21	NA	NA	Wed 6/1/21	Sun 7/3/21	4 days	1 day	398			
Title: Rev	v.11 Prog with Progress	Task	Summary			Inactive N			Duration-or			Start-only		C		emal Mile	estone	<
	-May-20	Split Milestone	Project Sum Inactive Tas			Inactive S Manual T			 Manual Sur Manual Sur 	nmary Rollup 💼 nmary 🛛 📕		 Finish-only External Task 	S	3	Dead Criti	dline ical		4
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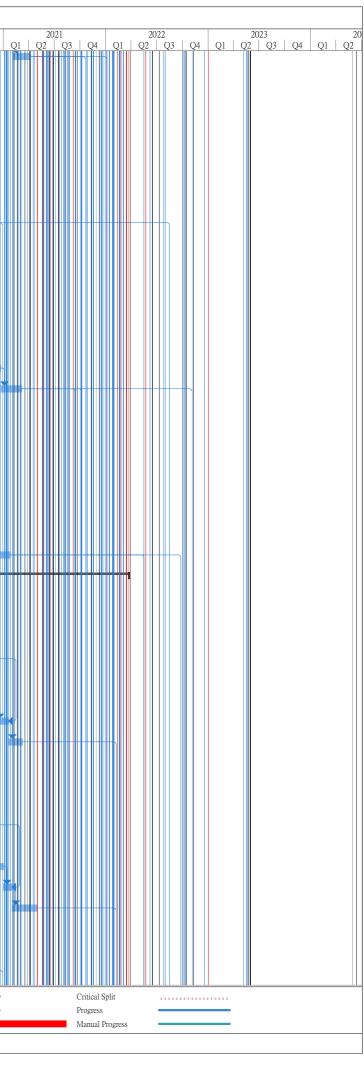
)]	Fask Name		Duration	Actual	Remaining	Physical %	Early Start	Early Finish	ract No. ED/	Actual Finish		Late Finish	Total	TRA	Predecessors	21)20
400		d ICE partification (Ein-1)		Duration	Duration	Complete 0%			NA	NA	Mon 8/3/21		Slack	1 day	399	Q2	
	Prepare DDA (E&M works) and		16 days		16 days		Thu 4/3/21	Fri 19/3/21				Tue 23/3/21	4 days				
)1		Statutory Authorities/Gov. Dept	61 days		61 days	0%	Sat 20/3/21	Wed 19/5/21		NA	Wed 24/3/21	Sun 23/5/21	4 days	1 day	400		
12	DCS Seawater & Intake Box Culv		-		174.59 days	0%	Tue 13/8/19	Thu 3/12/20		NA	Tue 13/8/19	Tue 3/8/21	243 days				
3	Prepare AIP Subm with ICE co	ertification (Draft)	165 days	165 days	0 days	100%	Tue 13/8/19	Fri 24/1/20	Tue 13/8/19	Fri 24/1/20	Tue 13/8/19	Fri 24/1/20	0 days	3 days			
4	Submit & endorse by PM		85 days	85 days	0 days	100%	Thu 23/1/20	Thu 16/4/20	Thu 23/1/20	Thu 16/4/20	Thu 23/1/20	Thu 16/4/20	0 days	1 day	403		
15	Submit & endorse by Statutory	Authorities/Gov. Dept	90 days	90 days	0 days	100%	Fri 24/1/20	Mon 27/4/20	Fri 24/1/20	Mon 27/4/20	Fri 24/1/20	Mon 27/4/20	0 days	1 day	403		
)6	Prepare AIP and ICE certificat	ion (Final)	0 days	0 days	0 days	100%	Thu 23/4/20	Mon 27/4/20	Thu 23/4/20	Mon 27/4/20	Thu 23/4/20	Mon 27/4/20	0 days	1 days	403,405,404	♦ 27	4
07	Prepare DDA and ICE certific	ation	80 days	0 days	80 days	0%	Sat 23/5/20	Mon 10/8/20	NA	NA	Thu 21/1/21	Sat 10/4/21	243 days	s 5 days	403SS,406FF+	1:	
08	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Tue 11/8/20	Tue 29/9/20	NA	NA	Sun 11/4/21	Sun 30/5/21	243 days	3 days	407		
-09	Prepare DDA for and ICE cert	ification (Final)	15 days	0 days	15 days	0%	Wed 30/9/20	Wed 14/10/20	NA	NA	Mon 31/5/21	Mon 14/6/21	243 days	s 1 day	408		
410	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Thu 15/10/20	Thu 3/12/20	NA	NA	Tue 15/6/21	Tue 3/8/21	243 days	a 2 days	409		
411	Seawater & Intake Box Culverts I	Diversion	248 days	49.98 days	198.02 days	0%	Wed 1/4/20	Fri 4/12/20	Wed 1/4/20	NA	Wed 1/4/20	Wed 6/10/21	306 days	5			
412	Prepare AIP Subm (Draft)		32 days	32 days	0 days	100%	Wed 1/4/20	Sat 2/5/20	Wed 1/4/20	Sat 2/5/20	Wed 1/4/20	Sat 2/5/20	0 days	3 days		╞═╢╌	
413	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	51 days	21 days	30 days	41%	Sat 2/5/20	Mon 22/6/20	Sat 2/5/20	NA	Sat 2/5/20	Tue 17/11/20	148 days	3 days	412		
414	Prepare AIP and ICE certificat	ion (Final)	15 days	0 days	15 days	0%	Tue 23/6/20	Tue 7/7/20	NA	NA	Wed 18/11/20	Wed 2/12/20	148 days	s 1 days	412,413		
415	Prepare DDA and ICE certific	ation	50 days	0 days	50 days	0%	Tue 23/6/20	Tue 11/8/20	NA	NA	Sun 25/4/21	Sun 13/6/21	306 days	5 days	412SS,413FF+	5	
416	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Wed 12/8/20	Wed 30/9/20	NA	NA	Mon 14/6/21	Mon 2/8/21	306 days	3 days	415		
417	Prepare DDA for and ICE cert	ification (Final)	15 days	0 days	15 days	0%	Thu 1/10/20	Thu 15/10/20	NA	NA	Tue 3/8/21	Tue 17/8/21	306 days	s 1 day	416		
118	_	Statutory Authorities/Gov. Dept	50 days		50 days	0%	Fri 16/10/20	Fri 4/12/20	NA	NA	Wed 18/8/21	Wed 6/10/21	306 days		417		
419	Rising Main (Sewerage Works)		402 days		268 days	0%	Thu 2/1/20	Sat 6/2/21	Thu 2/1/20	NA	Thu 2/1/20	Sun 7/3/21	29 days	-			Щ
120	Prepare AIP (Draft)		35 days		0 days	100%	Thu 2/1/20	Wed 5/2/20	Thu 2/1/20	Wed 5/2/20		Wed 5/2/20	-	3 days	4		
421	Submit & endorse by PM		19 days		0 days	100%	Thu 6/2/20	Mon 24/2/20	Thu 6/2/20	Mon 24/2/20		Mon 24/2/20	0 days	1 day			
422	-	Statutory Authorities/Gov. Dept	56 days	-	0 days	100%	Thu 27/2/20	Fri 22/5/20			Thu 27/2/20	Fri 22/5/20	0 days	2 days	420		
423	-	-													420,422,421		
	Prepare AIP and ICE certificat		75 days		75 days	0%	Thu 2/7/20	Mon 14/9/20		NA	Fri 31/7/20	Tue 13/10/20	29 days				
124	Prepare DDA and ICE certific:		30 days		30 days	0%	Tue 15/9/20	Wed 14/10/20		NA	Wed 14/10/20	Thu 12/11/20	29 days		420SS,423		
425	-	Statutory Authorities/Gov. Dept	50 days	-	50 days	0%	Thu 15/10/20			NA	Fri 13/11/20	Fri 1/1/21	29 days		424,420		
426	Prepare DDA and ICE certific		15 days		15 days	0%		Fri 18/12/20		NA	Sat 2/1/21	Sat 16/1/21	29 days		425		
427	-	Statutory Authorities/Gov. Dept	50 days	-	50 days	0%	Sat 19/12/20	Sat 6/2/21	NA	NA	Sun 17/1/21	Sun 7/3/21	29 days	3 days	426,423		
428	Road	nd Fresh Water Works for Underpass and Depressed			489.1 days	0%	Fri 13/9/19	Mon 14/6/21	Fri 13/9/19	NA	Fri 13/9/19	Mon 28/6/21	14 days				T
429	Stormwater Drainage AIP for (Draft)	Underpass and Depressed Roads and ICE certification	72 days	72 days	0 days	100%	Mon 2/12/19	Tue 11/2/20	Mon 2/12/19	Tue 11/2/20	Mon 2/12/19	Tue 11/2/20	0 days	1 day			
430	Submit & endorse by PM		51 days	51 days	0 days	30%	Wed 12/2/20	Thu 2/4/20	Wed 12/2/20	Thu 2/4/20	Wed 12/2/20	Thu 2/4/20	0 days	0.5 days	429		
431	Submit & endorse by Statutory	Authorities/Gov. Dept	139 days	64 days	75 days	46%	Fri 20/3/20	Wed 5/8/20	Fri 20/3/20	NA	Fri 20/3/20	Fri 30/10/20	86 days		429		
432	Prepare AIP and ICE certificat	ion (Final)	150 days	50 days	100 days	33%	Fri 3/4/20	Sun 30/8/20	Fri 3/4/20	NA	Fri 3/4/20	Sat 14/11/20	76 days		431FF+15 days		
433	Prepare DDA and ICE certific	ation (Draft)	150 days	0 days	150 days	0%	Sat 23/5/20	Mon 19/10/20	NA	NA	Sat 18/7/20	Mon 14/12/20	56 days	1 day	429,432FF+30	d 🕇	
434	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	90 days	0 days	90 days	0%	Tue 20/10/20	Sun 17/1/21	NA	NA	Tue 15/12/20	Sun 14/3/21	56 days	0.5 days	433		
435	Prepare DDA and ICE certific	ration (Final)	31 days	0 days	31 days	0%	Mon 18/1/21	Wed 17/2/21	NA	NA	Mon 15/3/21	Wed 14/4/21	56 days	1 day	434		
436	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	75 days	0 days	75 days	0%	Thu 18/2/21	Mon 3/5/21	NA	NA	Thu 15/4/21	Mon 28/6/21	56 days	5 days	435		
437		IP for Underpass, Depressed Road and ICE	51 days	51 days	0 days	100%	Tue 8/10/19	Wed 27/11/19	Tue 8/10/19	Wed	Tue 8/10/19	Wed 27/11/19	0 days	1 day			
438	certification (Draft) Submit & endorse by PM		26 days	26 days	0 days	100%	Thu 28/11/19	Mon 23/12/19	Thu 28/11/19		. Thu 28/11/19	Mon 23/12/19	0 days	0.5 days	437		
439	Submit & endorse by Statutory	Authorities/Gov. Dept	14 days	14 days	0 days	100%	Wed 8/4/20	Fri 24/4/20	Wed 8/4/20	Fri 24/4/20	Wed 8/4/20	Fri 24/4/20	0 days	3 days	437		
140	Prepare AIP for Underpass, De	pressed Road and ICE certification (Final)	22 days	22 days	0 days	100%	Sat 25/4/20	Sat 16/5/20	Sat 25/4/20	Sat 16/5/20	Sat 25/4/20	Sat 16/5/20	0 days	0 days	438,439		
441					90 days	0%	Sun 17/5/20			NA	Fri 2/10/20	Wed 30/12/20			440		
442					-												
443	-																
444					-								-				
	Submit & Chabise by Fivi and	Summery runnendes OUV. Dept	15 uays	o unyo	15 uays	0.0	5at 20/11/20	10/2/21	11/1		1110 13/4/21	101011 20/0/21	1.50 Uays	, 0 uays			
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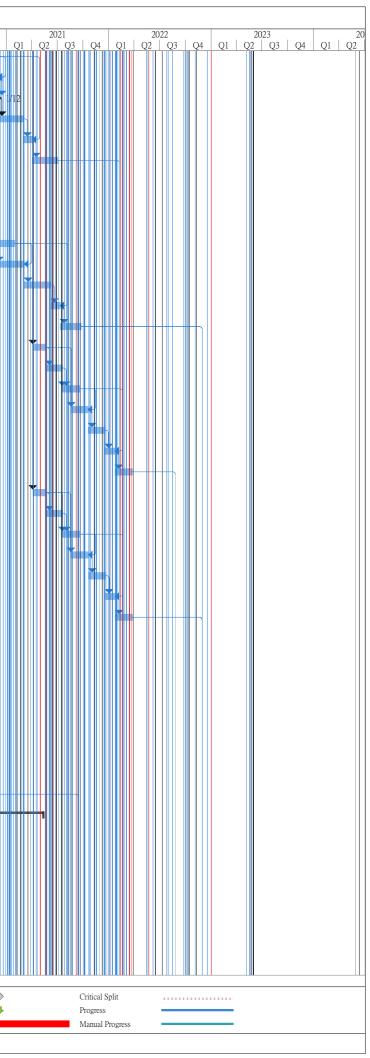
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	isk Name		Duration	Duration	Remaining Duration	Physical % Complete	Early Start			Actual Finish		Late Finish	Total Slack	TRA	Predecessors		020 Q
445	AIP for Water Works (Sewerag	ge Works of Gravity Sewers)	88 days	88 days	0 days	100%	Fri 13/9/19	Mon 9/12/19	Fri 13/9/19	Mon 9/12/19	Fri 13/9/19	Mon 9/12/19	0 days	1 day			
46	Submit & endorse by PM		19 days	19 days	0 days	100%	Mon 23/12/19			Fri 10/1/20	Mon 23/12/19	Fri 10/1/20	0 days	0.5 days	445		
47	Submit & endorse by Statutory	Authorities/Gov. Dept	18 days	18 days	0 days	100%	Fri 21/2/20	Mon 9/3/20	Fri 21/2/20	Mon 9/3/20	Fri 21/2/20	Mon 9/3/20	0 days	0.5 days	445		
148	AIP for Water Works (Sewerag	ge Works of Gravity Sewers) (Final)	11 days	11 days	0 days	100%	Tue 10/3/20	Fri 20/3/20	Tue 10/3/20	Fri 20/3/20	Tue 10/3/20	Fri 20/3/20	0 days	0.5 days	445,446,447		
49	DDA for Water Works (Sewer	rage Works of Gravity Sewers)	60 days	0 days	60 days	0%	Sat 23/5/20	Tue 21/7/20	NA	NA	Wed 16/12/20	Sat 13/2/21	207 days	1 day	445		-
450	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Wed 22/7/20	Wed 9/9/20	NA	NA	Sun 14/2/21	Sun 4/4/21	207 days	0.5 days	449		
451	DDA for Water Works - (Sew	erage Works of Gravity Sewers)	35 days	0 days	35 days	0%	Thu 10/9/20	Wed 14/10/20	NA	NA	Mon 5/4/21	Sun 9/5/21	207 days	1 day	448,449,450		
452	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Thu 15/10/20	Thu 3/12/20	NA	NA	Mon 10/5/21	Mon 28/6/21	207 days	0.5 days	451		
453	AIP for Stormwater Works - W	Vaterfront Promenade and at grade Open Space (Draf	t) 80 days	0 days	80 days	0%	Mon 6/7/20	Wed 23/9/20	NA	NA	Mon 20/7/20	Wed 7/10/20	14 days	1 day	445		1
454	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	60 days	0 days	60 days	0%	Thu 24/9/20	Sun 22/11/20	NA	NA	Thu 8/10/20	Sun 6/12/20	14 days	0.5 days	453		
455	AIP for Stormwater Works - W	Vaterfront Promenade and at grade Open Space (Final	l) 30 days	0 days	30 days	0%	Mon 23/11/20	Tue 22/12/20	NA	NA	Mon 7/12/20	Tue 5/1/21	14 days	0.5 days	453,454		
456		Waterfront Promenade and at grade Open Space	120 days	0 days	120 days	0%	Thu 24/9/20	Thu 21/1/21	NA	NA	Thu 8/10/20	Thu 4/2/21	14 days	1 day	453,455FF+30		
457	(Draft) Submit & endorse by PM and S	Statutory Authorities/Gov. Dept	60 days	0 days	60 days	0%	Fri 22/1/21	Mon 22/3/21	NA	NA	Fri 5/2/21	Mon 5/4/21	14 days	0.5 days	456		
458		Waterfront Promenade and at grade Open Space	24 days	0 days	24 days	0%	Tue 23/3/21	Thu 15/4/21	NA	NA	Tue 6/4/21	Thu 29/4/21	14 days	1 day	455,456,457		
459	(Final) Submit & endorse by PM and S	Statutory Authorities/Gov. Dept	60 days	0 days	60 days	0%	Fri 16/4/21	Mon 14/6/21	NA	NA	Fri 30/4/21	Mon 28/6/21	14 days	0.5 days	458		
460	AIP for Water Works - Remain	ning Stormwater works (Draft)	0 days	0 days	0 days	100%	Mon 2/3/20	Thu 9/4/20	Mon 2/3/20	Thu 9/4/20	Mon 2/3/20	Thu 9/4/20	0 days	1 day	453	9	
461		Statutory Authorities/Gov. Dept		27 days	0 days	100%	Fri 10/4/20		Fri 10/4/20	Wed 6/5/20	Fri 10/4/20	Wed 6/5/20		0.5 days	460		
462	AIP for Water Works - Remain		1 day	1 day	0 days	100%	Wed 29/4/20	Thu 7/5/20	Wed 29/4/20		Wed 29/4/20	Thu 7/5/20		0.5 days	460,461		$\parallel \parallel$
463		ining Stormwater works (Draft)	90 days		90 days	0%	Tue 2/6/20	Sun 30/8/20		NA	Fri 6/11/20	Wed 3/2/21	157 days		460		
464		Statutory Authorities/Gov. Dept	60 days		60 days	0%	Mon 31/8/20	Thu 29/10/20		NA	Thu 4/2/21	Sun 4/4/21		0.5 days	463		
465	-	ining Stormwater works (Final)	25 days		25 days	0%	Fri 30/10/20	Mon 23/11/20		NA	Mon 5/4/21	Thu 29/4/21	157 days		462,463,464	_	
466		Statutory Authorities/Gov. Dept	60 days		60 days	0%	Tue 24/11/20		NA	NA	Fri 30/4/21	Mon 28/6/21		0.5 days			
467	-	nd Fresh Water Works for Bridge B3		132.36 days		0%	Tue 22/10/19	Sat 3/4/21	Tue 22/10/19		Tue 22/10/19	Wed 6/10/21	137 days	-	405		
		_															
468	Fresh and Salt Water Works A	IP for Bridge D3 (Drail)		37 days	0 days	100%	Tue 22/10/19	Wed 27/11/19				Wed 27/11/19	-	1 day	160		
69	Submit & endorse by PM			22 days	0 days	100%	Thu 28/11/19	Thu 19/12/19				Thu 19/12/19		0.5 days	408		
470	Submit & endorse by Statutory	-	-	26 days	0 days	100%	Thu 9/4/20		Thu 9/4/20	Mon 4/5/20		Mon 4/5/20		0.5 days	160.160.15055		
471	Prepare AIP for Bridge D3 and		3 days		0 days	100%	Mon 4/5/20	Wed 6/5/20				Wed 6/5/20			468,469,470FF+		,
472	Prepare DDA for Bridge D3 a		60 days		60 days	0%	Mon 8/6/20		NA	NA	Sat 19/9/20	Tue 17/11/20	103 days		471FF+15 days,	4	
473	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	55 days	0 days	55 days	0%	Fri 7/8/20	Wed 30/9/20		NA	Wed 18/11/20	Mon 11/1/21	103 days	0.5 days	472		
474	Prepare DDA for Dridge D3 ar	d ICE certification (Final)	30 days	0 days	30 days	0%	Thu 1/10/20	Fri 30/10/20	NA	NA	Tue 12/1/21	Wed 10/2/21	103 days	0 days	473		
475	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	55 days	0 days	55 days	0%	Sat 31/10/20	Thu 24/12/20	NA	NA	Thu 11/2/21	Tue 6/4/21	103 days	0 days	474		
476	Stormwater Works AIP for Bri	dge D3 and ICE certification (Draft)	20 days	20 days	0 days	100%	Thu 23/1/20	Tue 11/2/20	Thu 23/1/20	Tue 11/2/20	Thu 23/1/20	Tue 11/2/20	0 days	1 day	468SS		
477	Submit & endorse by PM		9 days	9 days	0 days	100%	Wed 12/2/20	Thu 20/2/20	Wed 12/2/20	Thu 20/2/20	Wed 12/2/20	Thu 20/2/20	0 days	0.5 days	476		
478	Submit & endorse by Statutory	Authorities/Gov. Dept	28 days	28 days	0 days	100%	Wed 19/2/20	Tue 17/3/20	Wed 19/2/20	Tue 17/3/20	Wed 19/2/20	Tue 17/3/20	0 days	3 days			
479	Stormwater Works AIP for Bri	dge D3 and ICE certification (Final)	26 days	26 days	0 days	100%	Mon 2/3/20	Fri 27/3/20	Mon 2/3/20	Fri 27/3/20	Mon 2/3/20	Fri 27/3/20	0 days	1 day	477,476		
480	Prepare DDA for Bridge D3 ar	d ICE certification (Draft)	65 days	0 days	65 days	0%	Sat 23/5/20	Sun 26/7/20	NA	NA	Fri 9/10/20	Sat 12/12/20	139 days	1 day	476,479SS,478,		
481	Submit & endorse by PM and S	Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Mon 27/7/20	Mon 14/9/20	NA	NA	Sun 13/12/20	Sun 31/1/21	139 days	0.5 days	480		
482	Stormwater Works DDA for B	ridge D3 and ICE certification (Final)	15 days	0 days	15 days	0%	Tue 15/9/20	Tue 29/9/20	NA	NA	Mon 1/2/21	Mon 15/2/21	139 days	1 day	481		
483	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Wed 30/9/20	Wed 18/11/20	NA	NA	Tue 16/2/21	Tue 6/4/21	139 days	1 day	482		
484	AIP for Stormwater Drainage	Works of Pump Rooms EVA & Road L12d (Draft)	11 days	11 days	0 days	100%	Tue 28/4/20	Fri 8/5/20	Tue 28/4/20	Fri 8/5/20	Tue 28/4/20	Fri 8/5/20	0 days	1 day			$\frac{1}{2}$
485	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	60 days	15 days	45 days	25%	Fri 8/5/20	Tue 7/7/20	Fri 8/5/20	NA	Fri 8/5/20	Sat 9/1/21	186 days	0.5 days	484	‡	
486	AIP for Stormwater Drainage	Works (Final)	45 days	0 days	45 days	0%	Wed 8/7/20	Fri 21/8/20	NA	NA	Sun 10/1/21	Tue 23/2/21	186 days	0.5 days	484,485	.	₩
487	DDA for Stormwater Drainage	Works (Draft)	60 days	0 days	60 days	0%	Sat 22/8/20	Tue 20/10/20	NA	NA	Wed 24/2/21	Sat 24/4/21	186 days	1 day	484,486		
488	Submit & endorse by PM and	Statutory Authorities/Gov. Dept	60 days	0 days	60 days	0%	Wed 21/10/20	Sat 19/12/20	NA	NA	Sun 25/4/21	Wed 23/6/21	186 days	0.5 days	487		
489	DDA for Stromwater Drainage		45 days	· ·	45 days	0%	Sun 20/12/20		NA	NA	Thu 24/6/21	Sat 7/8/21	186 days		487,486,488		
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	11 Prog with Progress	Task Split	Summary Project Sun	ımarv		Inactive M			Duration-on Manual Sun	ıly 📃 nmary Rollup 💼		Start-only Finish-only		C]		emal Mil idline	lestor
	-May-20	Milestone \blacklozenge	Inactive Ta		-	Manual Ta				,				-	200	ical	



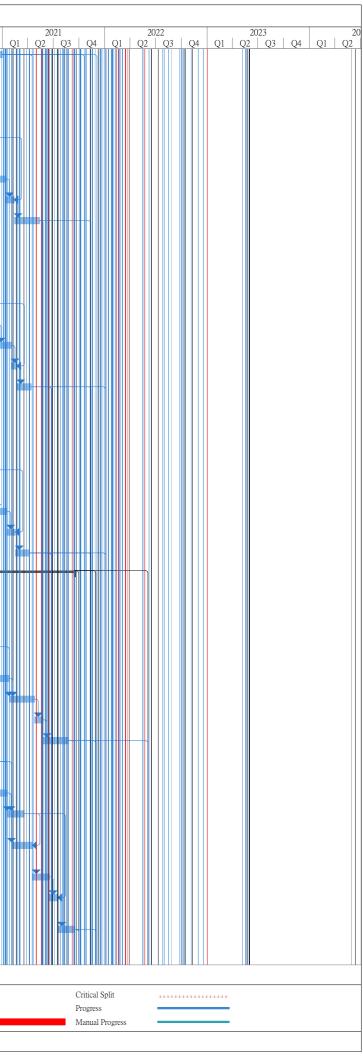
T	ack Nomo		Durat:	A atreal	Domeinin -	Dhucical 01	Early Ct+		ract No. ED/		2	Loto Eini-1-	Toto1	TDA	Dradaaaa		2020	
	ask Name		Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start					Late Finish	Total Slack	TRA	Predecessors		2020 2 Q3	3 (
490	Submit & endorse by PM and Statutory	/ Authorities/Gov. Dept	60 days	0 days	60 days	0%	Wed 3/2/21	Sat 3/4/21	NA	NA	Sun 8/8/21	Wed 6/10/21	186 days	0.5 days	489			
491	AIP for Saltwater & Freshwater - Road	l L12d (Draft)	40 days	40 days	0 days	100%	Fri 1/11/19	Tue 10/12/19	Fri 1/11/19	Tue 10/12/19	Fri 1/11/19	Tue 10/12/19	0 days	1 day				
192	Submit & endorse by PM		31 days	31 days	0 days	100%	Wed 11/12/19	Fri 10/1/20	Wed 11/12/19	Fri 10/1/20	Wed 11/12/19	Fri 10/1/20	0 days	0.5 days	491			
.93	Submit & endorse by Statutory Author	ities/Gov. Dept	14 days	14 days	0 days	100%	Thu 9/4/20	Wed 6/5/20	Thu 9/4/20	Wed 6/5/20	Thu 9/4/20	Wed 6/5/20	0 days	1 day	491	.		
194	AIP for Saltwater & Freshwater Works	s - Road L12d (Final)	12 days	12 days	0 days	100%	Thu 7/5/20	Mon 18/5/20	Thu 7/5/20	Mon 18/5/20	Thu 7/5/20	Mon 18/5/20	0 days	0.5 days	491,492,493	1	·	Ы
195	DDA for Saltwater & Freshwater Work	ks - Road L12d (Draft)	60 days	0 days	60 days	0%	Tue 19/5/20	Fri 17/7/20	NA	NA	Thu 11/3/21	Sun 9/5/21	296 days	1 day	491,494	1		Ы
496	Submit & endorse by PM and Statutory	/ Authorities/Gov. Dept	60 days	0 days	60 days	0%	Sat 18/7/20	Tue 15/9/20	NA	NA	Mon 10/5/21	Thu 8/7/21	296 days	0.5 days	495			
197	DDA for Saltwater & FreshwaterWork	ks - Road L12d (Final)	30 days	0 days	30 days	0%	Wed 16/9/20	Thu 15/10/20	NA	NA	Fri 9/7/21	Sat 7/8/21	296 days	1 day	494,495,496			
198	Submit & endorse by PM and Statutory	/ Authorities/Gov. Dept	60 days	0 days	60 days	0%	Fri 16/10/20	Mon 14/12/20	NA	NA	Sun 8/8/21	Wed 6/10/21	296 days	0.5 days	497			
99	Fresh and Salt Works AIP - Waterfront	t Promenade and at grade Open Space (Draft)	40 days	40 days	0 days	100%	Fri 1/11/19	Tue 10/12/19	Fri 1/11/19	Tue 10/12/19	Fri 1/11/19	Tue 10/12/19	0 days	1 day				
00	Submit & endorse by PM		31 days	31 days	0 days	100%	Wed 11/12/19	Fri 10/1/20	Wed 11/12/19	Fri 10/1/20	Wed 11/12/19	Fri 10/1/20	0 days	0.5 days	499			
01	Submit & endorse by PM/Statutory Au	thorities/Gov Dent	14 days		0 days	100%	Thu 9/4/20			Mon 18/5/20		Mon 18/5/20		0.5 days				
02		It Promenade and at grade Open Space (Final)		0 days	0 days	100%	Mon 11/5/20	Mon 18/5/20				Mon 18/5/20		0.5 days	499,500,501		19/5	
503			90 days		90 days	0%	Tue 19/5/20	Sun 16/8/20		NA	Sat 19/12/20	Thu 18/3/21	214 days		499,502			
03	(Draft) Submit & endorse by PM and Statutory				-	0%		Fri 30/10/20			Fri 19/3/21	Tue 1/6/21		-	499,502 503			
			75 days		75 days		Mon 17/8/20			NA								
05	(Final)	nt Promenade and at grade Open Space	52 days		52 days	0%	Sat 31/10/20	Mon 21/12/20		NA	Wed 2/6/21	Fri 23/7/21	214 days	-	502,503,504			
06	Submit & endorse by PM and Statutory	-	75 days		75 days	0%	Tue 22/12/20		NA	NA	Sat 24/7/21	Wed 6/10/21		0.5 days				
)7	AIP for Water Works - Remaining Free		40 days		0 days	100%	Fri 1/11/19	Tue 10/12/19		Tue 10/12/19	Fri 1/11/19	Tue 10/12/19		1 day	499SS			
18	Submit & endorse by PM		31 days	31 days	0 days	100%	Wed 11/12/19	Fri 10/1/20	Wed 11/12/19	Fri 10/1/20	Wed 11/12/19	Fri 10/1/20	0 days	0.5 days	507	Ы		
)9	Submit & endorse by PM/Statutory Au	thorities/Gov. Dept	14 days	14 days	0 days	100%	Thu 9/4/20	Thu 7/5/20	Thu 9/4/20	Thu 7/5/20	Thu 9/4/20	Thu 7/5/20	0 days	2 days	507	• .		
.0	AIP for Water Works - Remaining Free	sh Water and Salt Water works (Final)	11 days	11 days	0 days	100%	Thu 7/5/20	Mon 18/5/20	Thu 7/5/20	Mon 18/5/20	Thu 7/5/20	Mon 18/5/20	0 days	0.5 days	507,508,509	Ĩ		
1	DDA for Water Works - Remaining Fr	esh Water and Salt Water works (Draft)	50 days	0 days	50 days	0%	Mon 8/6/20	Mon 27/7/20	NA	NA	Fri 19/2/21	Fri 9/4/21	256 days	1 day	507,510			
12	Submit & endorse by PM and Statutory	/ Authorities/Gov. Dept	75 days	0 days	75 days	0%	Tue 28/7/20	Sat 10/10/20	NA	NA	Sat 10/4/21	Wed 23/6/21	256 days	0.5 days	511			ø
13	DDA for Water Works - Remaining Fr	esh Water and Salt Water works (Final)	30 days	0 days	30 days	0%	Sun 11/10/20	Mon 9/11/20	NA	NA	Thu 24/6/21	Fri 23/7/21	256 days	1 day	510,511,512			
4	Submit & endorse by PM and Statutory	/ Authorities/Gov. Dept	75 days	0 days	75 days	0%	Tue 10/11/20	Sat 23/1/21	NA	NA	Sat 24/7/21	Wed 6/10/21	256 days	0.5 days	513			
5	Pumping Stations, Box Culverts and Intak	e Structures	845 days	100.29 days	744.71 days	0%	Mon 2/12/19	Fri 25/3/22	Mon 2/12/19	NA	Mon 2/12/19	Thu 5/5/22	41 days			⊢		H
16	Prepare AIP for Salt Water and Sewage	e Pumping Structures (Draft)	29 days	29 days	0 days	100%	Mon 2/12/19	Mon 30/12/19	Mon 2/12/19		Mon 2/12/19	Mon 30/12/19	0 days	1 day	4			
17	Submit & endorse by PM		11 days	11 days	0 days	100%	Tue 31/12/19	Fri 10/1/20	Tue 31/12/19	30/12/19 Fri 10/1/20	Tue 31/12/19	Fri 10/1/20	0 days	0.5 days	516		_	
18	Submit & endorse by Statutory Author	ities/Gov. Dept	27 days	27 days	0 days	100%	Fri 27/3/20	Wed 29/4/20	Fri 27/3/20	Wed 29/4/20	Fri 27/3/20	Wed 29/4/20	0 days	2 days		,		
19	Prepare AIP for Salt Water & Sewage	Pumping Structures and ICE certification	36 days	0 days	36 days	0%	Thu 2/7/20	Thu 6/8/20	NA	NA	Thu 10/6/21	Thu 15/7/21	343 days	1 day	516,517,518FF+			Ш
20	(Final) Prepare DDA for Salt Water & Sewage	e Pumping Structures and ICE certification	45 days	0 davs	45 days	0%	Tue 1/9/20	Thu 15/10/20	NA	NA	Tue 10/8/21	Thu 23/9/21	343 days	1 dav	days 516,518FF+21			
21	(Draft) Submit & endorse by PM and Statutory		50 days		50 days	0%	Fri 16/10/20	Fri 4/12/20		NA	Fri 24/9/21	Fri 12/11/21			days,519FF+70 520			
22		e Pumping Structures and ICE certification	45 days		45 days	0%	Sat 5/12/20	Mon 18/1/21		NA	Sat 13/11/21	Mon 27/12/21			521,519FF			
23	(Final) Submit & endorse by PM and Statutory		45 days		45 days	0%	Tue 19/1/21		NA	NA	Tue 28/12/21	Tue 15/2/22	343 days	-	522			
		-													522			
24	Prepare E&M Works AIP for Sewage I	rumping Station (Dran)	29 days		0 days	100%	Tue 7/1/20	Tue 4/2/20	Tue 7/1/20	Tue 4/2/20	Tue 7/1/20	Tue 4/2/20	0 days		51(524			
25	Submit & endorse by PM		10 days		0 days	100%	Wed 5/2/20	Fri 14/2/20		Fri 14/2/20	Wed 5/2/20	Fri 14/2/20			516,524			
26	Submit & endorse by Statutory Author	-	55 days		25 days	55%	Thu 23/4/20			NA	Thu 23/4/20	Sun 13/9/20	89 days	-	524,525			
27		on E&M works and ICE certification (Final)			77 days	0%	Wed 17/6/20		NA	NA	Mon 14/9/20	Sun 29/11/20	89 days	-	526			H
28	Prepare DDA for Sewage Pumping Sta	tion E&M works and ICE certification (Draft)	120 days	0 days	120 days	0%	Wed 24/6/20	Wed 21/10/20	NA	NA	Mon 21/9/20	Mon 18/1/21	89 days	1 day	516,526FF,527F days	1		
9	Submit & endorse by PM and Statutory	/ Authorities/Gov. Dept	70 days	0 days	70 days	0%	Thu 22/10/20	Wed 30/12/20	NA	NA	Tue 19/1/21	Mon 29/3/21	89 days	1 day	528			
0	Prepare DDA for Sewage Pumping Sta	tion and ICE certification (Final)	31 days	0 days	31 days	0%	Thu 31/12/20	Sat 30/1/21	NA	NA	Tue 30/3/21	Thu 29/4/21	89 days	1 day	529,527FF+6 days			
1	Submit & endorse by PM and Statutory	/ Authorities/Gov. Dept	91 days	0 days	91 days	0%	Sun 31/1/21	Sat 1/5/21	NA	NA	Fri 30/4/21	Thu 29/7/21	89 days	1 day	530			
2	Prepare E&M Works AIP for Salt Wat	er Pumping (Draft)	29 days	29 days	0 days	100%	Tue 7/1/20	Tue 4/2/20	Tue 7/1/20	Tue 4/2/20	Tue 7/1/20	Tue 4/2/20	0 days	2 days		$\left\ \right\ $		
33	Submit & endorse by PM		10 days	10 days	0 days	100%	Wed 5/2/20	Fri 14/2/20	Wed 5/2/20	Fri 14/2/20	Wed 5/2/20	Fri 14/2/20	0 days	0.5 days	532,516			
34	Submit & endorse by Statutory Author	ities/Gov. Dept	60 days		36 days	40%	Wed 29/4/20	Sat 27/6/20	Wed 29/4/20		Wed 29/4/20	Sat 12/9/20	77 days	-	532,533			Ц
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	7.11 Prog with Progress		ummary roject Sum	marv ^I		Inactive M Inactive S			Duration-onl Manual Sum	y 📃 mary Rollup 🗖		Start-only Finish-only		C]		ernal N idline	vilestone	;
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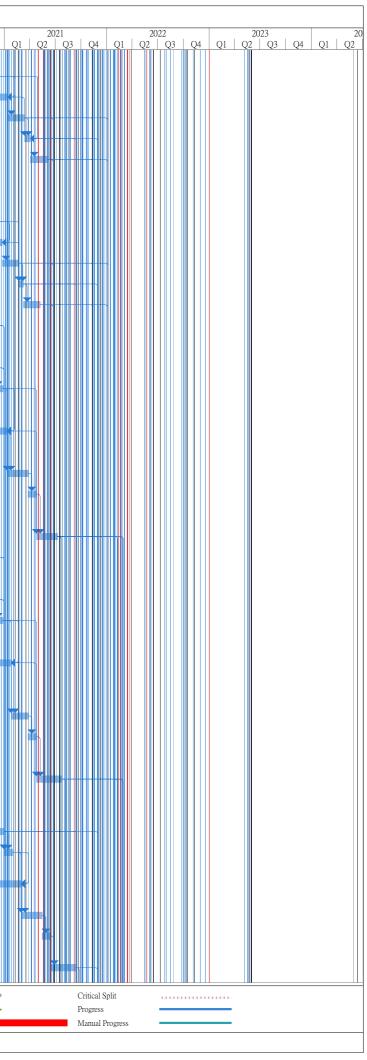
) Tas	ack Name		Disection	Actual	Romainin-	Dhusical #	Egely Ctort		Actual Start			Late Finish	Total	ТР /	Predecessor	~	2020
	isk Name			Duration	Remaining Duration	Physical % Complete	Early Start			Actual Finish			Total Slack	TRA	Predecessors		2020
535	Prepare AIP for Salt Water Pun (Final)	nping Station E&M works and ICE certification	77 days	0 days	77 days	0%	Mon 17/8/20	Sun 1/11/20	NA	NA	Sun 13/9/20	Sat 28/11/20	27 days	2 days	534		
536	Prepare DDA for Salt Water Pu (Draft)	mping Station E&M works and ICE certification	120 days	0 days	120 days	0%	Tue 4/8/20	Tue 1/12/20	NA	NA	Mon 31/8/20	Mon 28/12/20	27 days	1 day	534FF,535FF+30 days,516		
37	Submit to WSD for Plumbing a	nd Irrigation Works for approval	0 days	0 days	0 days	0%	Tue 1/12/20	Tue 1/12/20	NA	NA	Tue 29/12/20	Tue 29/12/20	27 days	1 day	536		
538	Submit & endorse by PM and S	tatutory Authorities/Gov. Dept	91 days	0 days	91 days	0%	Wed 2/12/20	Tue 2/3/21	NA	NA	Tue 29/12/20	Mon 29/3/21	27 days	1 day	536,537		
539	Prepare DDA for Salt Water Pu	mping Station and ICE certification (Final)	31 days	0 days	31 days	0%	Wed 3/3/21	Fri 2/4/21	NA	NA	Tue 30/3/21	Thu 29/4/21	27 days	1 day	535FF+6 days,538		
640	Submit & endorse by PM and S	tatutory Authorities/Gov. Dept	91 days	0 days	91 days	0%	Sat 3/4/21	Fri 2/7/21	NA	NA	Fri 30/4/21	Thu 29/7/21	27 days	1 day	539		
541	AIP for Remaining Works of Sa (Draft)	alt Water & Sewerage Pumping and ICE certification	n 41 days	41 days	0 days	0%	Mon 17/2/20	Sat 28/3/20	Mon 17/2/20	Sat 28/3/20	Mon 17/2/20	Sat 28/3/20	0 days	1 day	4	_	
542	Submit & endorse by PM		18 days	18 days	0 days	100%	Mon 30/3/20	Thu 16/4/20	Mon 30/3/20	Thu 16/4/20	Mon 30/3/20	Thu 16/4/20	0 days			-	
i43	Submit & endorse by Statutory	Authorities/Gov. Dept	90 days	0 days	90 days	0%	Mon 3/8/20	Sat 31/10/20	NA	NA	Sun 14/3/21	Fri 11/6/21	223 days	0.5 days	541,542		
544		alt Water Pumping & Sewage and ICE certification	90 days	0 days	90 days	0%	Sun 1/11/20	Fri 29/1/21	NA	NA	Sat 12/6/21	Thu 9/9/21	223 days	3 days	543		
545	(Final) DDA for Remaining Works of S	Salt Water & Sewage Pumping and ICE certification	90 days	0 days	90 days	0%	Sun 6/12/20	Fri 5/3/21	NA	NA	Sat 17/7/21	Thu 14/10/21	223 days	1 day	541,544FF+35		
546	(Draft) Submit & endorse by PM and S	tatutory Authorities/Gov. Dept	93 days	0 days	93 days	0%	Sat 6/3/21	Sun 6/6/21	NA	NA	Fri 15/10/21	Sat 15/1/22	223 days	3 days	days 545		
547	-	Salt Water & Sewage Pumping and ICE certification	1 35 davs	0 davs	35 days	0%	Mon 7/6/21	Sun 11/7/21	NA	NA	Sun 16/1/22	Sat 19/2/22	223 days		546,544FF+12		
548	(Final) Submit & endorse by PM and S		75 days	-	75 days	0%	Mon 12/7/21		NA	NA	Sun 20/2/22	Thu 5/5/22	223 days		days 547		
549	-	Salt Water & Sewage Pumping and ICE certification		-	45 days	0%	Mon 5/4/21	Wed 19/5/21		NA	Mon 3/5/21	Wed 16/6/21	28 days		4		
550	(Draft) Submit & endorse by PM and S				60 days	0%	Thu 20/5/21	Sun 18/7/21		NA	Thu 17/6/21	Sun 15/8/21			549		
	-	-	60 days			0%											
551	(Final)	Salt Water Pumping & Sewage and ICE certification		-	62 days		Mon 19/7/21		NA	NA	Mon 16/8/21	Sat 16/10/21	28 days		549,550		
552	certification (Draft)	f Salt Water & Sewage Pumping and ICE	60 days	· ·	60 days	0%	Fri 20/8/21	Mon 18/10/21		NA	Fri 17/9/21	Mon 15/11/21	28 days		549,551FF+30 days		
553	Submit & endorse by PM and S		60 days	-	60 days	0%	Tue 19/10/21	Fri 17/12/21		NA	Tue 16/11/21	Fri 14/1/22		0.5 days	552		
554	DDA for Architectural works of certification (Final)	f Salt Water & Sewage Pumping and ICE	36 days	0 days	36 days	0%	Sat 18/12/21	Sat 22/1/22	NA	NA	Sat 15/1/22	Sat 19/2/22	28 days	2 days	551FF+12 days,553		
555	Submit & endorse by PM and S	tatutory Authorities/Gov. Dept	62 days	0 days	62 days	0%	Sun 23/1/22	Fri 25/3/22	NA	NA	Sun 20/2/22	Fri 22/4/22	28 days	2 days	554		
556	AIP for Landscaping works of S (Draft)	Salt Water & Sewage Pumping and ICE certification	45 days	0 days	45 days	0%	Mon 5/4/21	Wed 19/5/21	NA	NA	Sun 2/5/21	Tue 15/6/21	27 days	1 day	4		
557	Submit & endorse by PM and S	tatutory Authorities/Gov. Dept	61 days	0 days	61 days	0%	Thu 20/5/21	Mon 19/7/21	NA	NA	Wed 16/6/21	Sun 15/8/21	27 days	0.5 days	556		
558	AIP for Landscaping works of S (Final)	Salt Water Pumping & Sewage and ICE certification	62 days	0 days	62 days	0%	Tue 20/7/21	Sun 19/9/21	NA	NA	Mon 16/8/21	Sat 16/10/21	27 days	2 days	556,557		
559	()	f Salt Water & Sewage Pumping and ICE	62 days	0 days	62 days	0%	Thu 19/8/21	Tue 19/10/21	NA	NA	Wed 15/9/21	Mon 15/11/21	27 days	2 days	556,558FF+30 days		
560	Submit & endorse by PM and S	tatutory Authorities/Gov. Dept	61 days	0 days	61 days	0%	Wed 20/10/21	Sun 19/12/21	NA	NA	Tue 16/11/21	Sat 15/1/22	27 days	0.5 days	559		
561	DDA for Landscaping works of	f Salt Water & Sewage Pumping and ICE	35 days	0 days	35 days	0%	Mon 20/12/21	Sun 23/1/22	NA	NA	Sun 16/1/22	Sat 19/2/22	27 days	2 days	558FF+12		
562	certification (Final) Submit & endorse by PM and S	tatutory Authorities/Gov. Dept	61 days	0 days	61 days	0%	Mon 24/1/22	Fri 25/3/22	NA	NA	Sun 20/2/22	Thu 21/4/22	27 days	2 days	days,560 561		
563	AIP for Seawater Intake and Bo 160m) (Section 6) Submission (x Culvert Structures for Pumping Station (approx. Draft)	58 days	58 days	0 days	100%	Tue 10/12/19	Wed 5/2/20	Tue 10/12/19	Wed 5/2/20	Tue 10/12/19	Wed 5/2/20	0 days	1 day			
564	Submit & endorse by PM		25 days	25 days	0 days	33%	Wed 5/2/20	Thu 5/3/20	Wed 5/2/20	Thu 5/3/20	Wed 5/2/20	Thu 5/3/20	0 days	0.5 days	563		Ц
565	Submit & endorse by Statutory	Authorities/Gov. Dept	50 days		50 days	0%	Sat 23/5/20	Sat 11/7/20	NA	NA	Sun 28/3/21	Sun 16/5/21		0.5 days		ł	
566	AIP for Seawater Intake and Bc	-	21 days	-	21 days	0%	Sun 12/7/20	Sat 1/8/20	NA	NA	Mon 17/5/21	Sun 6/6/21		0.5 days	563,565,564		Ţ
567	DDA for Seawater Intake and E	. ,	15 days		15 days	0%	Sat 25/7/20	Sat 8/8/20	NA	NA	Sun 30/5/21	Sun 13/6/21	309 days		563,565,564,566		
				-													
568	Submit & endorse by PM and S		50 days		50 days	0%	Sun 9/8/20	Sun 27/9/20		NA	Mon 14/6/21	Mon 2/8/21			567		
569	DDA for Seawater Intake and E	× • •	15 days	-	15 days	0%	Mon 28/9/20	Mon 12/10/20		NA	Tue 3/8/21	Tue 17/8/21	309 days		567,568,566FF+		
570	Submit & endorse by PM and S		50 days		50 days	0%	Tue 13/10/20	Tue 1/12/20		NA	Wed 18/8/21	Wed 6/10/21		0.5 days	569		
571	Elevated Landscape Deck Staircase	e & Associated Work	714 days	268.49 days	445.51 days	0%	Thu 30/5/19	Wed 12/5/21	Thu 30/5/19		Thu 30/5/19	Mon 5/7/21	54 days				
572	Elevated Landscape Deck Super	structure AIP and ICE certification (Draft)	96 days	96 days	0 days	100%	Thu 30/5/19	Mon 2/9/19	Thu 30/5/19	Mon 2/9/19	Thu 30/5/19	Mon 2/9/19	0 days	3 days	4		
573	Submit & endorse by PM		15 days	15 days	0 days	100%	Tue 3/9/19	Tue 17/9/19	Tue 3/9/19	Tue 17/9/19	Tue 3/9/19	Tue 17/9/19	0 days	1 days	572		
574	Submit & endorse by Statutory	Authorities/Gov. Dept	162 days	162 days	0 days	0%	Tue 24/9/19	Tue 3/3/20	Tue 24/9/19	Tue 3/3/20	Tue 24/9/19	Tue 3/3/20	0 days	0.5 days	573	+	
575	Prepare AIP and ICE certification	on (Final)	255 days	155 days	100 days	61%	Wed 20/11/19	Fri 31/7/20	Wed 20/11/19	NA	Wed 20/11/19	Thu 26/11/20	118 days	0.5 days	44FF+12 days	-	•
576	Prepare DDA and ICE certificat	tion (Draft)	75 days	0 days	75 days	0%	Fri 12/6/20	Sun 30/8/20	NA	NA	Thu 8/10/20	Sat 26/12/20	118 days	1 day	574FF+30 days,		
577	Submit & endorse by PM and S	tatutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Mon 31/8/20	Mon 19/10/20) NA	NA	Sun 27/12/20	Sun 14/2/21	118 days	0.5 days	576		
578	Prepare DDA for and ICE certif	ication (Final)	22 days	0 days	22 days	0%	Tue 20/10/20	Tue 10/11/20	NA	NA	Mon 15/2/21	Mon 8/3/21	118 days	1 day	577		
		Task	Summarv			Inactive N	filestone 💧		Duration-on	lv		Start-only		C	Fyte	nal Mi	[]est/
	r.11 Prog with Progress -May-20		Project Sum	mary	I	Inactive N				nmary Rollup 🗧		Finish-only		3	Dead		10310
15 UI 22-	-iviay-20	Milestone \blacklozenge	Inactive Tasl	k		Manual Ta	ask		Manual Sun	mary		External Task	2		Criti	al	



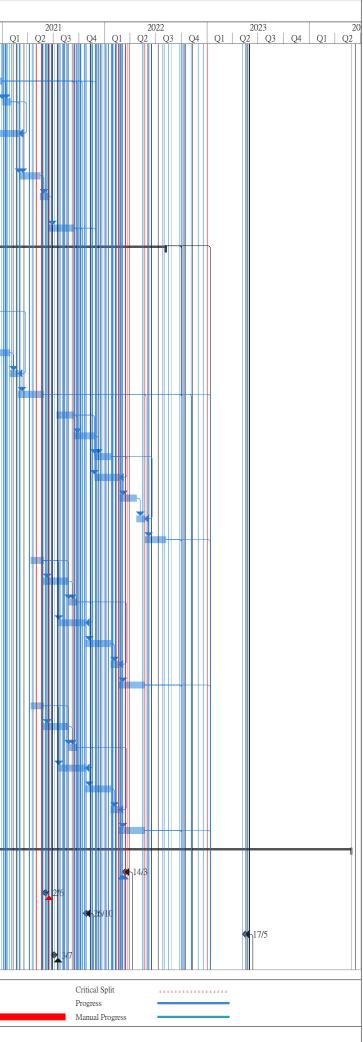
Tas	k Name	Duration		Remaining	Physical %	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total	TRA	Predecessors	202		
579	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days	Duration 0 days	Duration 50 days	Complete 0%	Wed 11/11/20	Wed 30/12/20	NA	NA	Tue 9/3/21	Tue 27/4/21	Slack 118 days	1 day	578	Q2	Q3	-
580	Elevated Landscape Deck - Lift (LT1<2)& Staircase include E&M Progvision:	50 days	50 days	0 days	100%	Mon 7/10/19	Mon 25/11/19	Mon 7/10/19	Mon	Mon 7/10/19	Mon 25/11/19	0 days	3 days	44FF+12 days		Щ	
581	AIP and ICE Certification (Draft) Submit & endorse by PM	21 days	21 days	0 days	100%	Tue 26/11/19	Mon 16/12/19	Tue 26/11/19	25/11/19 Mon 16/12/	Tue 26/11/19	Mon 16/12/19	0 days	1 days	580			
582	Submit & endorse by Statutory Authorities/Gov. Dept	120 days	85 days	35 days	71%	Fri 28/2/20	Fri 26/6/20	Fri 28/2/20	NA	Fri 28/2/20	Thu 13/8/20	48 days	1 days	580			
583	Prepare AIP and ICE certification (Final)	60 days	-	60 days	0%	Sat 27/6/20	Tue 25/8/20	NA	NA	Fri 14/8/20	Mon 12/10/20	48 days	-	580,581,582,44F			₄∥
584	Prepare DDA and ICE certification (Draft)	60 days	-	60 days	0%	Tue 11/8/20	Wed 14/10/20		NA	Mon 28/9/20	Tue 1/12/20	48 days		580,583FF+50 d			
585	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days	-	90 days	0%	Thu 15/10/20	Tue 12/1/21		NA	Wed 2/12/20	Mon 1/3/21		0.5 days				
586	Prepare DDA for and ICE certification (Final)	30 days	-	30 days	0%	Wed 13/1/21	Thu 11/2/21		NA	Tue 2/3/21	Wed 31/3/21	-	0.5 days	585,583FF+12 d			
587	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days		90 days	0%	Fri 12/2/21	Wed 12/5/21		NA	Thu 1/4/21	Tue 29/6/21	48 days		586			
588	Elevated Landscape Deck - Open Space AIP Subm (Draft)	50 days	-	0 days	100%	Mon 10/2/20		Mon 10/2/20	Mon 30/3/20		Mon 30/3/20		3 days	500			
589			-	0 days	100%	Mon 30/3/20		Mon 30/3/20			Mon 20/4/20		0.5 days	599			
	Submit & endorse by PM	21 days		-													
590	Submit & endorse by Statutory Authorities/Gov. Dept	50 days	-	50 days	0%	Mon 6/7/20	Mon 24/8/20		NA	Mon 28/9/20	Mon 16/11/20	84 days		588			
591	Prepare AIP and ICE certification (Final)	30 days	-	30 days	0%	Tue 25/8/20	Wed 23/9/20		NA	Tue 17/11/20	Wed 16/12/20	84 days		588,590,44FF+1			Î
592	Prepare DDA and ICE certification (Draft)	75 days	-	75 days	0%	Thu 24/9/20	Sat 12/12/20		NA	Thu 17/12/20	Sat 6/3/21	84 days		590SS,591			T
193	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days	-	50 days	0%	Sun 13/12/20	Sun 31/1/21		NA	Sun 7/3/21	Sun 25/4/21		0.5 days				
94	Prepare DDA for and ICE certification (Final)	21 days	0 days	21 days	0%	Mon 1/2/21	Sun 21/2/21	NA	NA	Mon 26/4/21	Sun 16/5/21	84 days	0 days	593,591FF+6 da			
95	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Mon 22/2/21	Mon 12/4/21	NA	NA	Mon 17/5/21	Mon 5/7/21	84 days	0 days	594			
96	EVA for Open Space AIP Subm (Draft)	71 days	71 days	0 days	100%	Mon 10/2/20	Mon 20/4/20	Mon 10/2/20	Mon 20/4/20	Mon 10/2/20	Mon 20/4/20	0 days	3 days		∎		
97	Submit & endorse by PM	2 days	2 days	0 days	100%	Tue 21/4/20	Mon 27/4/20	Tue 21/4/20	Mon 27/4/20	Tue 21/4/20	Mon 27/4/20	0 days	1 day	596	Ň		
98	Submit & endorse by Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Mon 6/7/20	Mon 24/8/20	NA	NA	Sun 4/10/20	Sun 22/11/20	90 days	1 days	596		1	1
99	Prepare AIP and ICE certification (Final)	30 days	0 days	30 days	0%	Tue 25/8/20	Wed 23/9/20	NA	NA	Mon 23/11/20	Tue 22/12/20	90 days	2 days	596,598,44FF+1			
00	Prepare DDA and ICE certification (Draft)	60 days	0 days	60 days	0%	Thu 24/9/20	Fri 27/11/20	NA	NA	Wed 23/12/20	Thu 25/2/21	90 days	1 day	598SS,599			ł
01	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Sat 28/11/20	Sat 16/1/21	NA	NA	Fri 26/2/21	Fri 16/4/21	90 days	0.5 days	600			
02	Prepare DDA for and ICE certification (Final)	30 days	0 days	30 days	0%	Sun 17/1/21	Mon 15/2/21	NA	NA	Sat 17/4/21	Sun 16/5/21	90 days	0 days	599FF+6 days,60			
3	Submit & endorse by PM and Statutory Authorities/Gov. Dept	50 days	0 days	50 days	0%	Tue 16/2/21	Tue 6/4/21	NA	NA	Mon 17/5/21	Mon 5/7/21	90 days	0 days	602			
)4	Waterfront Promenade and At-grade Open Space	533 days	5.98 days	527.02 days	0%	Wed 1/4/20	Wed 15/9/21	Wed 1/4/20	NA	Wed 1/4/20	Tue 28/9/21	13 days			-	┿╋	╉
05	Prepare AIP for Observation Deck with Lift (LT5) and Staircase and ICE (Include E&M Provision Works) certification (Draft)	24 days	24 days	0 days	100%	Wed 1/4/20	Fri 24/4/20	Wed 1/4/20	Fri 24/4/20	Wed 1/4/20	Fri 24/4/20	0 days	1 day		╸		
06	Submit & endorse by PM and Statutory Authorities/Gov. Dept	14 days	14 days	0 days	0%	Fri 24/4/20	Fri 8/5/20	Fri 24/4/20	Fri 8/5/20	Fri 24/4/20	Fri 8/5/20	0 days	1 day	605			-
07	Prepare AIP for Observation Deck with Lift (LT5) and Staircase and ICE (Include E&M Provision Works) certification (Final)	31 days	0 days	31 days	0%	Wed 16/9/20	Fri 16/10/20	NA	NA	Thu 22/10/20	Sat 21/11/20	36 days	1 day	605,606,647FF,6			
08	Prepare DDA for Observation Deck with Lift and Staircase and ICE (Include E&M	100 days	0 days	100 days	0%	Sat 17/10/20	Sun 24/1/21	NA	NA	Sun 22/11/20	Mon 1/3/21	36 days	1 day	605,647,654,607			
)9	Provision Works) certification (Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days	0 days	90 days	0%	Mon 25/1/21	Sat 24/4/21	NA	NA	Tue 2/3/21	Sun 30/5/21	36 days	0.5 days	608,607			
10	Prepare DDA for Observation Deck with Lift and Staircase and ICE (Include E&M	31 days	0 days	31 days	0%	Sun 25/4/21	Tue 25/5/21	NA	NA	Mon 31/5/21	Wed 30/6/21	36 days	1 day	609			
11	Provision Works) certification (Final) Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days	0 days	90 days	0%	Wed 26/5/21	Mon 23/8/21	NA	NA	Thu 1/7/21	Tue 28/9/21	36 days	2 days	610			
12	Prepare AIP for Remaining Works at Waterfront Promenade and ICE (Include E&M Provision Works) certification (Draft)	51 days	0 days	51 days	0%	Mon 14/9/20	Tue 3/11/20	NA	NA	Sun 27/9/20	Mon 16/11/20	13 days	2 days				
3	Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 days	0 days	75 days	0%	Wed 4/11/20	Sun 17/1/21	NA	NA	Tue 17/11/20	Sat 30/1/21	13 days	0.5 days	612			
14	Prepare AIP for Remaining Works at Waterfront Promenade and ICE (Include E&M Provision Works) certification (Final)	60 days	0 days	60 days	0%	Mon 18/1/21	Thu 18/3/21	NA	NA	Sun 31/1/21	Wed 31/3/21	13 days	2 days	612,613			
5	Prepare DDA for Remaining Works at Waterfront Promenade and ICE (Include E&M Provision Works) certification (Draft)	75 days	0 days	75 days	0%	Tue 2/2/21	Sat 17/4/21	NA	NA	Mon 15/2/21	Fri 30/4/21	13 days	1 day	612,614FF+30 days			
5	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	0 days	60 days	0%	Sun 18/4/21	Wed 16/6/21	NA	NA	Sat 1/5/21	Tue 29/6/21	13 days	1 day	615			
7	Prepare DDA for Remaining Works at Waterfront Promenade and ICE (Include E&M Provision Works) certification (Final)	31 days	0 days	31 days	0%	Thu 17/6/21	Sat 17/7/21	NA	NA	Wed 30/6/21	Fri 30/7/21	13 days	1 day	616,614FF+15 days			
8	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	0 days	60 days	0%	Sun 18/7/21	Wed 15/9/21	NA	NA	Sat 31/7/21	Tue 28/9/21	13 days	1 day	617			
9	AIP for Cladding Design of Landscape Deck, Lifts and associated Works (Draft)	31 days	0 days	31 days	0%	Mon 20/7/20	Wed 19/8/20	NA	NA	Fri 21/8/20	Sun 20/9/20	32 days	1 day				
	Task	Summarv			Inactive N	Ailestone 💧		Duration-on	v		Start-only		Г	Exte	mal Mile	estone	
-	11 Prog with Progress																



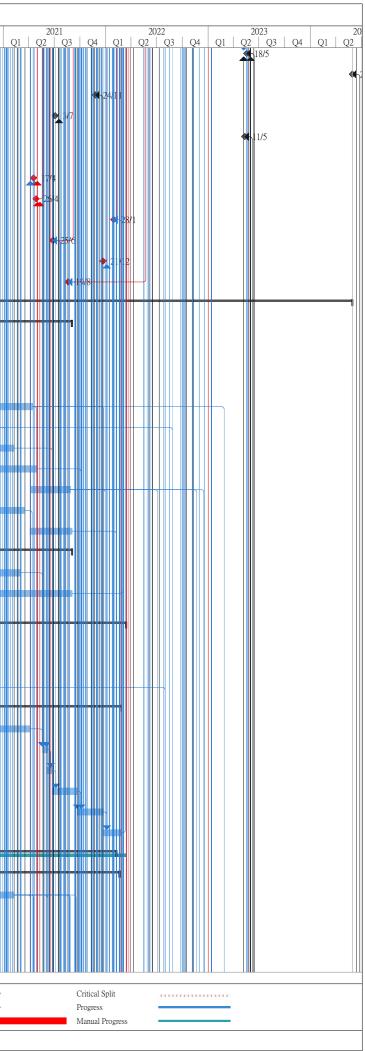
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	ask Name	Durati	ion Actual Duratior	Remaining Duration	Physical % Complete	Early Start			rt Actual Fini		Late Finish	Total Slack	TRA	Predecessors	Q2	2020
620	Submit & endorse by PM and Statutory Authorities/Gov. Dept	63 day	ys 0 days	63 days	0%	Thu 20/8/20	Wed 21/10/20	NA	NA	Mon 21/9/20	Sun 22/11/20	32 days	3 days	619		
621	AIP for Cladding Design of Landscape Deck, Lifts and associat	ted Works (Final) 52 day	ys 0 days	52 days	0%	Thu 22/10/20	Sat 12/12/20	NA	NA	Mon 23/11/20	Wed 13/1/21	32 days	2 days	619,620		
622	DDA for Cladding Design of Landscape Deck, Lifts and associ	ated Works (Draft) 61 day	ys 0 days	61 days	0%	Thu 12/11/20	Mon 11/1/21	NA	NA	Mon 14/12/20	Fri 12/2/21	32 days	1 day	619,621FF+30 days		
623	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 day	ys 0 days	60 days	0%	Tue 12/1/21	Fri 12/3/21	NA	NA	Sat 13/2/21	Tue 13/4/21	32 days	1 day	622		
624	DDA for Cladding Design of Landscape Deck, Lifts and associ	ated Works (Final) 21 day	ys 0 days	21 days	0%	Sat 13/3/21	Fri 2/4/21	NA	NA	Wed 14/4/21	Tue 4/5/21	32 days	1 day	621FF,622,623		
625	Submit & endorse by PM and Statutory Authorities/Gov. Dept	62 day	ys 0 days	62 days	0%	Sat 3/4/21	Thu 3/6/21	NA	NA	Wed 5/5/21	Mon 5/7/21	32 days	2 days	624		
626	AIP for Balustrade and Railing of Promenade, Open Space and (Draft)	Assocated Works 30 day	ys 0 days	30 days	0%	Sat 1/8/20	Sun 30/8/20	NA	NA	Tue 29/9/20	Wed 28/10/20	59 days	1 day			
527	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 day	ys 0 days	60 days	0%	Mon 31/8/20	Thu 29/10/20	NA	NA	Thu 29/10/20	Sun 27/12/20	59 days	1 day	626		
528	AIP for Balustrade and Railing of Promenade, Open Space and	Assocated Works 25 day	ys 0 days	25 days	0%	Fri 30/10/20	Mon 23/11/20	NA	NA	Mon 28/12/20	Thu 21/1/21	59 days	0.5 days	626,627		
629	(Final) DDA for Balustrade and Railing of Promenade, Open Space an	d Assocated Works 50 day	ys 0 days	50 days	0%	Wed 4/11/20	Wed 23/12/20	NA	NA	Sat 2/1/21	Sat 20/2/21	59 days	1 day	626,628FF+30		
530	(Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 day	ys 0 days	60 days	0%	Thu 24/12/20	Sun 21/2/21	NA	NA	Sun 21/2/21	Wed 21/4/21	59 days	0 days	days 629		
631	DDA for Balustrade and Railing of Promenade, Open Space an	d Assocated Works 15 day	ys 0 days	15 days	0%	Mon 22/2/21	Mon 8/3/21	NA	NA	Thu 22/4/21	Thu 6/5/21	59 days	1 day	628,629,630		
632	(Final) Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 day	ys 0 days	60 days	0%	Tue 9/3/21	Fri 7/5/21	NA	NA	Fri 7/5/21	Mon 5/7/21	59 days		631		
633	Prepare AIP for Permanent Building Works (i.e. Ampitheater, Toilet Block, Light Refreshment Kiosk, Refuse Collection Blo Building Blocks) and ICE certification (Draft)		ys 0 days	60 days	0%	Wed 29/7/20	Sat 26/9/20	NA	NA	Thu 20/8/20	Sun 18/10/20	22 days		149FF+7 days		
534	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 day	ys 0 days	60 days	0%	Sun 27/9/20	Wed 25/11/20	NA	NA	Tue 3/11/20	Fri 1/1/21	37 davs	0.5 days	633		
635	Prepare AIP for Permanent Building Works (i.e.Ampitheater, (30 days	0%		Fri 25/12/20		NA	Sat 2/1/21	Sun 31/1/21	37 days		633,634		
	Toilet Block, Light Refreshment Kiosk, Refuse Collection Blo Building Blocks) and ICE certification (Final)	ck, Back of House														
636	Prepare DDA for Permanent Building Works (i.e. Ampitheater Toilet Block, Light Refreshment Kiosk, Refuse Collection Blo Building Blocks) and ICE certification (Draft)		ays 0 days	100 days	0%	Fri 2/10/20	Sat 9/1/21	NA	NA	Sun 8/11/20	Mon 15/2/21	37 days	1 day	633,635FF+15 days,151FF+15 days		
637	Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 day	ys 0 days	75 days	0%	Sun 10/1/21	Thu 25/3/21	NA	NA	Tue 16/2/21	Sat 1/5/21	37 days	0.5 days	635,636		
638	Prepare DDA for Permanent Building Works (i.e. Ampitheater Toilet Block, Light Refreshment Kiosk, Refuse Collection Blo Building Blocks) nd ICE certification (Final)		ys 0 days	30 days	0%	Fri 26/3/21	Sat 24/4/21	NA	NA	Sun 2/5/21	Mon 31/5/21	37 days	0 days	637		
539	Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 day	ys 0 days	75 days	0%	Sun 25/4/21	Thu 8/7/21	NA	NA	Tue 1/6/21	Sat 14/8/21	37 days	0.5 days	635,636,638		
640	Prepare AIP for Permanent Building E&M Works (i.e. Ampith Tower, Toilet Block, Light Refreshment Kiosk, Refuse Collect House Building Blocks) and ICE certification (Draft)	eater, Observation 75 day tion Block, Back of	ys 0 days	75 days	0%	Tue 14/7/20	Sat 26/9/20	NA	NA	Wed 5/8/20	Sun 18/10/20	22 days	1 day	149FF+7 days		
641	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 day	ys 0 days	60 days	0%	Sun 27/9/20	Wed 25/11/20	NA	NA	Mon 19/10/20	Thu 17/12/20	22 days	0.5 days	640		
642	Prepare AIP for Permanent Building E&M Works (i.e. Observ Block, Light Refreshment Kiosk, Refuse Collection Block, Ba Blocks) and ICE certification (Final)	ation Tower, Toilet 30 day ck of House Building	ys 0 days	30 days	0%	Thu 26/11/20	Fri 25/12/20	NA	NA	Fri 18/12/20	Sat 16/1/21	22 days	0 days	640,641		
643	Prepare DDA for Permanent Building E&M Works (i.e.Ampit Tower, Toilet Block, Light Refreshment Kiosk, Refuse Collect House Building Blocks) and ICE (Include E&M Provision Wo (Draft)	tion Block, Back of	ays 0 days	120 days	0%	Sun 27/9/20	Sun 24/1/21	NA	NA	Mon 19/10/20	Mon 15/2/21	22 days	1 day	640,642FF+30 days,151FF+15 days		
644	Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 day	ys 0 days	60 days	0%	Mon 25/1/21	Thu 25/3/21	NA	NA	Tue 16/2/21	Fri 16/4/21	22 days	0.5 days	642,643		
645	Prepare DDA for Permanent Building E&M Works (i.e. Ampi Tower, Toilet Block, Light Refreshment Kiosk, Refuse Collect House Building Blocks) nd ICE certification (Final)		ys 0 days	30 days	0%	Fri 26/3/21	Sat 24/4/21	NA	NA	Sat 17/4/21	Sun 16/5/21	22 days	0 days	644		
646	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 day	ys 0 days	90 days	0%	Sun 25/4/21	Fri 23/7/21	NA	NA	Mon 17/5/21	Sat 14/8/21	22 days	0.5 days	642,643,645		
647	Prepare AIP for Temporary Building Works (i.e. temporary ma toilet blocks) and ICE certification (Draft)	anagement office and 75 day	ys 0 days	75 days	0%	Mon 3/8/20	Fri 16/10/20	NA	NA	Thu 20/8/20	Mon 2/11/20	17 days	1 day	149FF+7 days		
648	Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 day	ys 0 days	75 days	0%	Sat 17/10/20	Wed 30/12/20	NA	NA	Tue 3/11/20	Sat 16/1/21	17 days	0 days	647		
649	Prepare AIP for Temporary Building Works (i.e. temporary matoilet blocks) and ICE certification (Final)	anagement office and 30 day	ys 0 days	30 days	0%	Thu 31/12/20	Fri 29/1/21	NA	NA	Sun 17/1/21	Mon 15/2/21	17 days	0 days	633,634,648,640		
550	Prepare DDA for AIP for Temporary Building Works (i.e. temp office and toilet blocks) and ICE (Include E&M Provision Wor certification (Draft)	ks) and ICE	ays 0 days	150 days	0%	Fri 2/10/20	Sun 28/2/21		NA	Mon 19/10/20	Wed 17/3/21	17 days		633,640,649FF+ days,151FF+15 days		
651	Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 day	ys 0 days	75 days	0%	Mon 1/3/21	Fri 14/5/21	NA	NA	Thu 18/3/21	Mon 31/5/21	17 days	0.5 days	649,650		
652	Prepare DDA for AIP for Temporary Building Works (i.e. tem office and toilet blocks) and ICE (Final)			30 days	0%	Sat 15/5/21	Sun 13/6/21		NA	Tue 1/6/21	Wed 30/6/21	17 days		651		
653	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 day	ys 0 days	90 days	0%	Mon 14/6/21	Sat 11/9/21	NA	NA	Thu 1/7/21	Tue 28/9/21	17 days	0 days	652		
	Task	Summar	y		Inactive N	Milestone 🔷	1	Duratio	n-only	1	Start-only		C	Exte	rmal Mi	⊒ i?
	V. I I Prog with Progress	Project S		1	Inactive S				Summary Rollup		Finish-only		3		dline	
5 01 22-	Milestone	Inactive	Task		Manual T	Task		Manual	Summary		External Tasl	ks		Criti	cal	



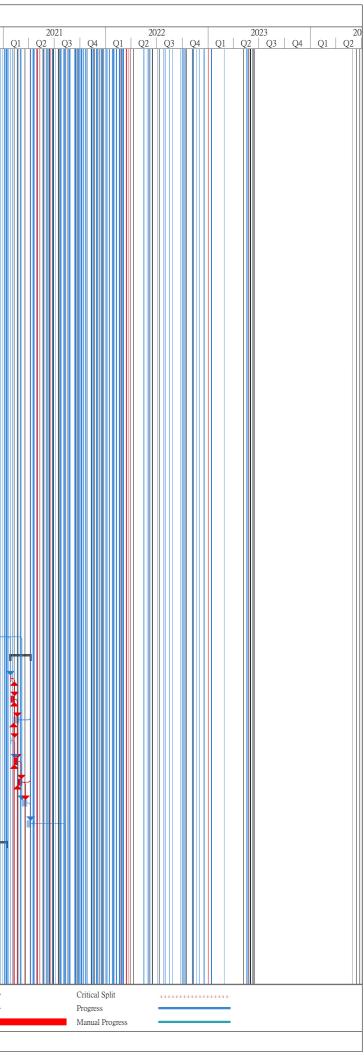
) [Fask Name	Duration	Actual	Remaining	Physical %	Early Start		ract No. ED/ Actual Start		, , , , , , , , , , , , , , , , , , ,	Late Finish	Total TRA	Predecessors	202	20
654			Duration	Duration	Complete							Slack		Q2	
654	Prepare AIP for Temporary Building E&M Works (i.e. temporary management office and toilet blocks) and ICE certification (Draft)	75 days	0 days	75 days	0%	Mon 3/8/20	Fri 16/10/20	NA	NA	Thu 20/8/20	Mon 2/11/20	17 days 1 day	149FF+7 days		
555	Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 days	0 days	75 days	0%	Sat 17/10/20	Wed 30/12/20	NA	NA	Tue 3/11/20	Sat 16/1/21	17 days 0 days	654		
56	Prepare AIP for Temporary Building E&M Works (i.e. temporary management office and toilet blocks) and ICE certification (Final)	30 days	0 days	30 days	0%	Thu 31/12/20	Fri 29/1/21	NA	NA	Sun 17/1/21	Mon 15/2/21	17 days 0 days	655,633,634,640		
57	Prepare DDA for AIP for Temporary Building E&M Works (i.e. temporary management office and toilet blocks) and ICE (Include E&M Provision Works) and ICE certification (Draft)	150 days	0 days	150 days	0%	Fri 2/10/20	Sun 28/2/21	NA	NA	Mon 19/10/20	Wed 17/3/21	17 days 1 day	633,640,656FF+ days,151FF+15 days		
58	Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 days	0 days	75 days	0%	Mon 1/3/21	Fri 14/5/21	NA	NA	Thu 18/3/21	Mon 31/5/21	17 days 0.5 days	656,657		
59	Prepare DDA for AIP for Temporary Building E&M Works (i.e. temporary management office and toilet blocks) and ICE (Final)	30 days	0 days	30 days	0%	Sat 15/5/21	Sun 13/6/21	NA	NA	Tue 1/6/21	Wed 30/6/21	17 days 0 days	658		
0	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days	0 days	90 days	0%	Mon 14/6/21	Sat 11/9/21	NA	NA	Thu 1/7/21	Tue 28/9/21	17 days 0 days	659		
1	Landscaping and Irrigation works	858 days	23.33 days	834.67 days	0%	Wed 1/4/20	Sat 6/8/22	Wed 1/4/20	NA	Wed 1/4/20	Sun 23/10/22	78 days			
2	Prepare AIP for Roadside Landscaping Softworks and ICE certification (Draft)	38 days	38 days	0 days	100%	Wed 1/4/20	Fri 8/5/20	Wed 1/4/20	Fri 8/5/20	Wed 1/4/20	Fri 8/5/20	0 days 1 day			
3	Submit & endorse by PM and Statutory Authorities/Gov. Dept	113 days	13 days	100 days	12%	Sat 9/5/20	Sat 29/8/20	Sat 9/5/20	NA	Sat 9/5/20	Mon 20/9/21	387 days 0.5 days	662		
54	Prepare AIP for roadside landscaping softworks and ICE certification (Final)	30 days	0 days	30 days	0%	Sun 30/8/20	Mon 28/9/20	NA	NA	Tue 21/9/21	Wed 20/10/21	387 days 0 days	662,663		
55	Prepare DDA for Roadside Landscaping Softworks and ICE certification (Draft)	95 days	0 days	95 days	0%	Sun 26/7/20	Wed 28/10/20	NA	NA	Tue 17/8/21	Fri 19/11/21	387 days 1 day	662,664FF+30		₩
56	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days		90 days	0%	Thu 29/10/20	Tue 26/1/21		NA	Sat 20/11/21	Thu 17/2/22	387 days 0.5 days	days 665		
67	Prepare DDA for Roadside Landscaping Softworks and ICE certification (Final)	30 days	0 days	30 days	0%	Wed 27/1/21	Thu 25/2/21	NA	NA	Fri 18/2/22	Sat 19/3/22	387 days 0 days	666,664FF+15		
58	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days	0 days	90 days	0%	Fri 26/2/21	Wed 26/5/21	NA	NA	Sun 20/3/22	Fri 17/6/22	387 days 0 days	days 667		
59	Prepare AIP for irrigation system for all landscaping works and ICE certification	60 days	0 days	60 days	0%	Tue 13/7/21	Fri 10/9/21	NA	NA	Wed 29/9/21	Sat 27/11/21	78 days 1 day			
70	(Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 days	0 days	75 days	0%	Sat 11/9/21	Wed 24/11/21	NA	NA	Sun 28/11/21	Thu 10/2/22	78 days 0.5 days	669		
1	Prepare AIP for irrigation system for all landscaping works and ICE certification	60 days	0 days	60 days	0%	Thu 25/11/21	Sun 23/1/22	NA	NA	Fri 11/2/22	Mon 11/4/22	78 days 0 days	669,670		
2	(Final) Prepare DDA for irrigation system for all landscaping works and ICE certification	90 days	0 days	90 days	0%	Thu 25/11/21	Tue 22/2/22	NA	NA	Fri 11/2/22	Wed 11/5/22	78 days 1 day	669,671FF+30		
73	(Draft) Submit & endorse by PM and Statutory Authorities/Gov. Dept	60 days	0 days	60 days	0%	Wed 23/2/22	Sat 23/4/22	NA	NA	Thu 12/5/22	Sun 10/7/22	78 days 0.5 days	days 672		
74	Prepare DDA for irrigation system for all landscaping works and ICE certification	30 days	0 days	30 days	0%	Sun 24/4/22	Mon 23/5/22	NA	NA	Mon 11/7/22	Tue 9/8/22	78 days 0 days	673,671FF+15		
75	(Final) Submit & endorse by PM and Statutory Authorities/Gov. Dept	75 days	0 days	75 days	0%	Tue 24/5/22	Sat 6/8/22	NA	NA	Wed 10/8/22	Sun 23/10/22	78 days 0 days	days 674		
6	Prepare AIP for Soft Landscaping works and ICE certification (Draft)	45 days	0 days	45 days	0%	Mon 12/4/21	Wed 26/5/21	NA	NA	Tue 14/9/21	Thu 28/10/21	155 days 1 day			
7	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days	0 days	90 days	0%	Thu 27/5/21	Tue 24/8/21	NA	NA	Fri 29/10/21	Wed 26/1/22	155 days 0.5 days	676		
3	Prepare AIP for soft landscaping and ICE certification (Final)	30 days	0 days	30 days	0%	Wed 25/8/21	Thu 23/9/21	NA	NA	Thu 27/1/22	Fri 25/2/22	155 days 0 days	676,677		
9	Prepare DDA for Soft Landscaping and ICE certification (Draft)	95 days	0 days	95 days	0%	Wed 21/7/21	Sat 23/10/21	NA	NA	Thu 23/12/21	Sun 27/3/22	155 days 1 day	676,678FF+30		
0	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days	0 days	90 days	0%	Sun 24/10/21	Fri 21/1/22	NA	NA	Mon 28/3/22	Sat 25/6/22	155 days 0.5 days	days 679		
81	Prepare DDA for Soft Landscaping and ICE certification (Final)	30 days	0 days	30 days	0%	Sat 22/1/22	Sun 20/2/22	NA	NA	Sun 26/6/22	Mon 25/7/22	155 days 0 days	678FF+15		
82	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days	0 days	90 days	0%	Mon 21/2/22	Sat 21/5/22	NA	NA	Tue 26/7/22	Sun 23/10/22	155 days 0 days	days,680 681		
33	Prepare AIP for Hard Landscaping and ICE certification (Draft)	45 days	0 days	45 days	0%	Mon 12/4/21	Wed 26/5/21	NA	NA	Tue 14/9/21	Thu 28/10/21	155 days 1 day			
584	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days	0 days	90 days	0%	Thu 27/5/21	Tue 24/8/21	NA	NA	Fri 29/10/21	Wed 26/1/22	155 days 0.5 days	683		
585	Prepare AIP for Hard landscaping and ICE certification (Final)	30 days	0 days	30 days	0%	Wed 25/8/21	Thu 23/9/21	NA	NA	Thu 27/1/22	Fri 25/2/22	155 days 0 days	683,684		
586	Prepare DDA for Hard Landscaping and ICE certification (Draft)	95 days	0 days	95 days	0%	Wed 21/7/21	Sat 23/10/21	NA	NA	Thu 23/12/21	Sun 27/3/22	155 days 1 day	683,685FF+30		
687	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days	0 days	90 days	0%	Sun 24/10/21	Fri 21/1/22	NA	NA	Mon 28/3/22	Sat 25/6/22	155 days 0.5 days	days 686		
588	Prepare DDA for Hard Landscaping and ICE certification (Final)	30 days	0 days	30 days	0%	Sat 22/1/22	Sun 20/2/22	NA	NA	Sun 26/6/22	Mon 25/7/22	155 days 0 days	685FF+15		
689	Submit & endorse by PM and Statutory Authorities/Gov. Dept	90 days	0 days	90 days	0%	Mon 21/2/22	Sat 21/5/22	NA	NA	Tue 26/7/22	Sun 23/10/22	155 days 0 days	days,687 688		
590	Work Stage/ Phase - Planned Completion	1387 days		1387 days	0%	Tue 11/8/20	Wed 29/5/24		NA	Fri 7/8/20	Wed 29/5/24	-4 days			
91	Section 1		0 days	0 days	0%	Mon 14/3/22	Mon 14/3/22		NA	Tue 1/3/22	Tue 1/3/22	-13 days 0 days	1105FF,1438,73		
92	Section 2		0 days	0 days	0%	Wed 2/6/21	Wed 2/6/21		NA	Wed 2/6/21	Wed 2/6/21	0 days 0 days	1127		
93	Section 3		0 days	0 days	0%	Tue 26/10/21	Tue 26/10/21		NA	Tue 2/11/21	Tue 2/11/21	7 days 0 days	1172FF		
94	Section 4		0 days	0 days	0%	Wed 17/5/23	Wed 17/5/23		NA	Tue 30/5/23	Tue 30/5/23	13 days 0 days	1133FF		
95	Section 5		0 days	0 days	0%	Sat 3/7/21		NA	NA	Mon 5/7/21	Mon 5/7/21	2 days 0 days	1222		
tle [.] Re	v.11 Prog with Progress	Summary			Inactive N	Ailestone 🔷		Duration-or	ly		Start-only	C	Exter	mal Mile	estone
	2-May-20	Project Sumi Inactive Tasl			Inactive S Manual T			 Manual Sur Manual Sur 	nmary Rollup 🗧		Finish-only External Task	3	Dead		
	IVIIICSIUIR V	macuve 188	n		ividiludi 1	ωA		• wiandai Sul			 LAULIIAI 1 dSF 		Criu	***	



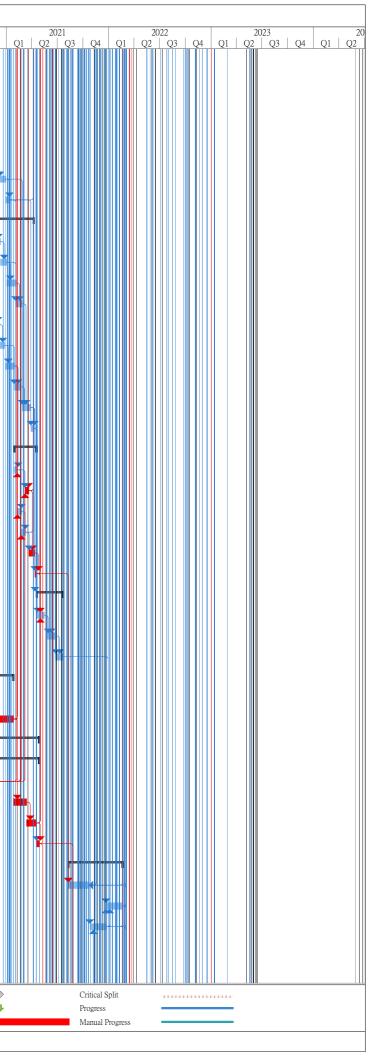
)	Task Name		Duration	Actual	Remaining	Physical %	Early Start		tract No. ED/	Actual Finish	-	Late Finish	Total	TRA	Predecessors	202	20	
				Duration	Duration	Complete							Slack				Q3	
696	Section 6		0 days	0 days	0 days	0%	Thu 18/5/23	Thu 18/5/23		NA	Tue 30/5/23	Tue 30/5/23	12 days	0 days	1357FF,1546FF,			
697	Section 7		0 days	0 days	0 days	0%	Wed 29/5/24	Wed 29/5/24	NA	NA	Wed 29/5/24	Wed 29/5/24	0 days	0 days	1549FF			
98	Section 8		0 days	0 days	0 days	0%	Wed 24/11/21	Wed 24/11/21	NA	NA	Thu 2/12/21	Thu 2/12/21	8 days	0 days	1144FF			
99	Section 9		0 days	0 days	0 days	0%	Sat 3/7/21	Sat 3/7/21	NA	NA	Mon 5/7/21	Mon 5/7/21	2 days	0 days	1222			
00	Section 10		0 days	0 days	0 days	0%	Thu 11/5/23	Thu 11/5/23	NA	NA	Tue 30/5/23	Tue 30/5/23	19 days	0 days	1559FF			
01	KD1		0 days	0 days	0 days	0%	Tue 11/8/20	Tue 11/8/20	NA	NA	Fri 7/8/20	Fri 7/8/20	-4 days	0 days	758			11/
702	KD2		0 days	0 days	0 days	0%	Sat 17/4/21	Sat 17/4/21	NA	NA	Sun 18/4/21	Sun 18/4/21	1 day	0 days	791,821,771,774			
703	KD3		0 days	0 days	0 days	0%	Mon 26/4/21	Mon 26/4/21	NA	NA	Tue 1/6/21	Tue 1/6/21	36 days	0 days	822,821			
04	KD4		0 days	0 days	0 days	0%	Fri 28/1/22	Fri 28/1/22	NA	NA	Mon 31/1/22	Mon 31/1/22	3 days	0 days	1255FF			
05	KD5		0 days	0 days	0 days	0%	Fri 25/6/21	Fri 25/6/21	NA	NA	Fri 17/9/21	Fri 17/9/21	84 days	0 days	1252FF			
706	KD6		0 days	0 days	0 days	0%	Tue 21/12/21	Tue 21/12/21	NA	NA	Wed 29/12/21	Wed 29/12/21	8 days	0 days	883			
707	KD7		0 days	0 days	0 days	0%	Thu 19/8/21	Thu 19/8/21	NA	NA	Fri 3/6/22	Fri 3/6/22	288 days	0 days	1254FF			
708	Construction Works		1499 day	s75.67 days	1423.33 days?	0%	Thu 16/5/19	Wed 29/5/24	Thu 16/5/19	NA	Thu 16/5/19	Wed 29/5/24	0 days?			_	₩	┦
09	Procurement of Materials and Equipm	ents	615 days	12.7 days	602.3 days	0%	Thu 8/8/19	Wed 1/9/21	Thu 8/8/19	NA	Thu 8/8/19	Tue 22/2/22	140 days			\blacksquare	₩	4
10	Office Accommodation		21 days		0 days	100%	Thu 8/8/19	Fri 20/12/19	Thu 8/8/19	Fri 20/12/19	Thu 8/8/19	Fri 20/12/19	0 days					
10	Lift Submission Preparation		15 days		15 days	0%	Sat 12/9/20		NA	NA	Wed 23/9/20	Wed 7/10/20		0.5 days	173			-
11	Lift Comment & Approval		21 days		21 days	0%	Sun 27/9/20	Sat 20/9/20 Sat 17/10/20		NA	Thu 8/10/20	Wed 28/10/20		0.5 days				I
					-													ľ
13	Lifts ((5 nos)	1	180 days		180 days	0%	Sun 18/10/20	Thu 15/4/21		NA	Thu 29/10/20	Mon 26/4/21			712			
14	Pumps for Pump Room next to Un		150 days		150 days	0%	Sat 23/5/20	Thu 19/11/20		NA	Wed 8/7/20	Tue 5/1/21		30 days				1
15	Elevated landscape deck soffit pane		120 days		120 days	0%	Mon 14/9/20	Sat 6/2/21	NA	NA	Thu 4/2/21	Mon 5/7/21		30 days				ł
16	Underpass & Depressed Rd - facad	es	120 days	0 days	120 days	0%	Tue 1/12/20	Thu 29/4/21	NA	NA	Wed 12/5/21	Mon 4/10/21	129 days	30 days				
17	E & M equipment & fittings (for C	pen space & Promenade)	120 days	0 days	120 days	0%	Tue 6/4/21	Fri 27/8/21	NA	NA	Mon 27/9/21	Tue 22/2/22	144 days	30 days				
18	Bridge Parapet Fabrication		120 days	0 days	120 days	0%	Mon 16/11/20	Mon 15/3/21	NA	NA	Wed 26/5/21	Wed 22/9/21	191 days	30 days				
19	Pumps for Salt and Sewage Pumpin	ng Stations	150 days	0 days	150 days	0%	Mon 5/4/21	Wed 1/9/21	NA	NA	Sun 19/9/21	Tue 15/2/22	167 days	30 days				
20	Excavation Permit		300 days	0 days	300 days	0%	Mon 31/8/20	Thu 2/9/21	NA	NA	Mon 23/11/20	Tue 1/3/22	69 days				III	-
21	TTA Application for Junction Mod	ification Rd L6 & D2	182 days	0 days	182 days	0%	Tue 1/9/20	Mon 1/3/21	NA	NA	Mon 23/11/20	Sun 23/5/21	83 days	2 days				
22	Interfaced DCS 3 x DN150mm chi 4 nos. of signaling cable along Nor	lled water pipes under contract no. 2852EM17A and th Approach Ramp and Gate 3B (Agreed)	368 days	0 days	368 days	0%	Mon 31/8/20	Thu 2/9/21	NA	NA	Sat 27/2/21	Tue 1/3/22	180 days	3 day				1
23	Section 1		842 days	107.17 days	734.83 days	0%	Thu 16/5/19	Mon 14/3/22	Thu 16/5/19	NA	Thu 16/5/19	Wed 29/5/24	657 days			++	₩	-
.4	Agree Interface Coordination Plan	with CKR & KTSP	14 days	14 days	0 days	100%	Tue 27/8/19	Wed 11/9/19	Tue 27/8/19	Wed 11/9/19	Tue 27/8/19	Wed 11/9/19	0 days	0 days	1225,1226			
25	Ground Investigation		341 days	193.02 days	147.98 days	0%	Thu 12/9/19	Thu 5/11/20	Thu 12/9/19	NA	Thu 12/9/19	Sat 13/8/22	526 days			++	₩	-
26	GI Work		318 days	180 days	138 days	57%	Thu 12/9/19	Thu 5/11/20	Thu 12/9/19	NA	Thu 12/9/19	Sat 13/8/22	526 days	0.5 days	724	•.		
.7	Part 1 - Junction Modification Rd I	.6 & D2	414 days	0 days	414 days	0%	Mon 5/10/20	Fri 25/2/22	NA	NA	Mon 23/11/20	Tue 1/3/22	3 days					
28	XP Application for Junction Mo	dification Rd L6 & D2	182 days	0 days	182 days	0%	Mon 5/10/20	Sun 4/4/21	NA	NA	Mon 23/11/20	Sun 23/5/21	49 days	1 day				
9	Stage 1: Trial Pit to locate the e	xisting underground cables and utilities	14 days	0 days	14 days	0%	Thu 20/5/21	Fri 4/6/21	NA	NA	Mon 24/5/21	Tue 8/6/21	3 days	1 day	141,375,721,728			
0	_	xisting underground cables and utilities	14 days	-	14 days	0%	Sat 5/6/21		NA	NA	Wed 9/6/21	Fri 25/6/21	3 days	1 day	729			
31	_	rb Modification + Road Marking	76 days		76 days	0%	Wed 23/6/21	Mon 20/9/21	NA	NA	Sat 26/6/21	Fri 24/9/21	3 days	1 day	730			
32	Stage 4: TTA for Central Divid	-	76 days	-	76 days	0%	Tue 21/9/21	Tue 21/12/21		NA	Sat 25/9/21	Fri 24/12/21	3 days	1 day	731,113			
3	Stage 5: Construct 2 Dividers		51 days		51 days	0%	Wed 22/12/21		NA	NA	Tue 28/12/21	Tue 1/3/22	3 days	1 day	732			
34	_	· 1 .) (1110)7 1444 7	-	-	-										152			
	Bridge D3 (Approach Ramp and B	ndge) CH1087-1444.7	-	91.74 days	720.26 days	0%	Thu 16/5/19	Mon 7/2/22	Thu 16/5/19		Mon 11/11/19	Wed 29/5/24	687 days					1
5	North Approach Ramp		-	66.85 days	569.15 days	0%	Wed 25/12/19		Wed 25/12/19		Wed 25/12/19	Tue 1/3/22	9 days					
6	Procurement of Movement J	oints for Bridge Works	180 days	0 days	180 days	0%	Tue 11/8/20	Sat 6/2/21	NA	NA	Fri 9/10/20	Tue 6/4/21	59 days	30 days	194,220			1
7	Sheetpile Driven along Nort long)	h, Sourth & East Side ELS Cofferdam (assume 169	4 days	4 days	0 days	100%	Tue 14/1/20	Fri 17/1/20	Tue 14/1/20	Fri 17/1/20	Tue 14/1/20	Fri 17/1/20	0 days	0.5 day				
8	KTSP Completed Driven H-	pile Installation	41 days	41 days	0 days	100%	Wed 25/12/19	Mon 3/2/20	Wed 25/12/19	Mon 3/2/20	Wed 25/12/19	Mon 3/2/20	0 days					
9	Hoarding Removal along KT	SP Site	5 days	5 days	0 days	100%	Tue 4/2/20	Sat 8/2/20	Tue 4/2/20	Sat 8/2/20	Tue 4/2/20	Sat 8/2/20	0 days	0.5 day	738			
	ou 11 Drog with Drog	Task	Summary			Inactive N	filestone 🔷		Duration-on	ly		Start-only		C	Exter	nal Mile	stone	_
	ev.11 Prog with Progress 22-May-20	Split	Project Sum		1	Inactive S	ummary		Manual Sun	nmary Rollup 🗧		Finish-only		3	Dead	line		
	-	Milestone 🔶	Inactive Tas	de la		Manual T	a ala		Manual Sun			External Task			Critic	-01		



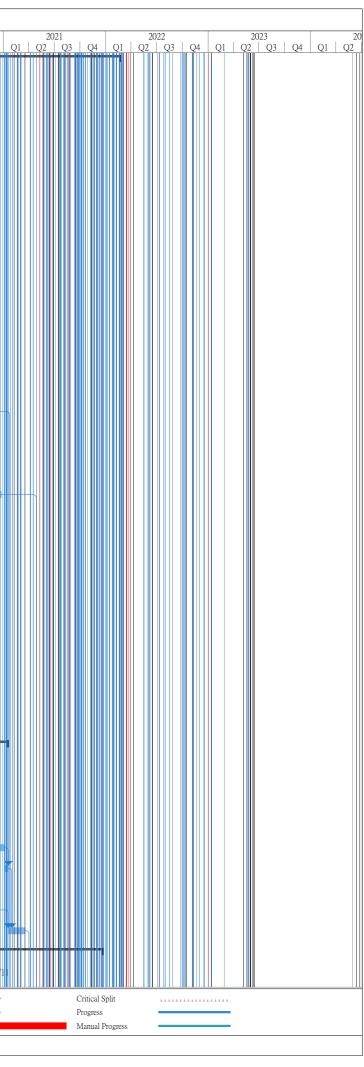
D Ta	ask Name		Duration	Actual	Remaining	Physical %	Early Start		Actual Start	2018/01 KT		Late Finish	Total	TRA	Predecessors	202
		ELS Coffordom (commo 105m 1-m-)		Duration	Duration	Complete				Wed 19/2/20			Slack 0 days	0.5 day		Q2
740		ern ELS Cofferdam (assume 105m long)		8 days	0 days	100%	Tue 11/2/20		Tue 11/2/20			Wed 19/2/20			737,739	
741	Excavation with Shoring and include Sand Raplacemnet Te	l Waling Installation with Rock Fill Replacement est with PWRL for KD1	44 days	44 days	0 days	100%	Thu 20/2/20	Wed 15/4/20	Thu 20/2/20	Wed 15/4/20	Thu 20/2/20	Wed 15/4/20	0 days	1 day		
742	Remaining Excavation with S Replacement include Sand Ra	Shoring and Waling Installation with Rock Fill aplacemnet Test with PWRL	37 days	0 days	37 days	0%	Tue 6/10/20	Wed 18/11/20	NA	NA	Tue 13/10/20	Wed 25/11/20	6 days	2 days	741,761	
743	North Approach Ramp (Bays	No.2,3,4&5) (Next to BEM) (KD1)	106 days	34.01 days	71.99 days	0%	Wed 1/4/20	Tue 11/8/20	Wed 1/4/20	NA	Wed 1/4/20	Fri 7/8/20	-3 days			
744	Bay No.3 Base Slab with	Blinding (1)+(2)	15 days	15 days	0 days	100%	Wed 1/4/20	Wed 22/4/20	Wed 1/4/20	Wed 22/4/20	Wed 1/4/20	Wed 22/4/20	0 days	0.5 days	741SS+35 days	
745	Bay No.3: Wall & Column	n with Soffit (upto +4.6mPD) (include Wall Former)	42 days	22 days	20 days	45%	Wed 22/4/20	Thu 11/6/20	Wed 22/4/20	NA	Wed 22/4/20	Thu 11/6/20	-3 days		744	
746	May 2020 Inclement Wea	ther	3 days	0 days	3 days	0%	Fri 12/6/20	Mon 15/6/20	NA	NA	Tue 9/6/20	Thu 11/6/20	-3 days		745,74SS	
747		in Casted and Formwork & Falsework upto Soffit of	15 days	0 days	15 days	0%	Tue 16/6/20	Sat 4/7/20	NA	NA	Fri 12/6/20	Tue 30/6/20	-3 days	1 day	745,746	
748	Top Slab(6)+(7) Bay No. 3: Top Slab Cons	struction with Formwork & Falsework Erection(8)	12 days	0 days	12 days	0%	Mon 6/7/20	Sat 18/7/20	NA	NA	Thu 2/7/20	Wed 15/7/20	-3 days	1 day	747	
749	Bay No.2 Base Slab with	Blinding (1)+(2)	11 days	11 days	0 days	100%	Tue 28/4/20	Tue 12/5/20	Tue 28/4/20	Tue 12/5/20	Tue 28/4/20	Tue 12/5/20	0 days	1 day	741FS+2 days	
750		n with Soffit (upto +4.6mPD) (include Wall Former)	23 days	6 days	17 days	25%	Sat 16/5/20	Thu 11/6/20	Sat 16/5/20	NA	Sat 16/5/20	Thu 11/6/20	-1 day	1 day	749	
751	(3)+(4)+(5) Bay No. 2: Wall & Colum	nn Casted and Formwork & Falsework upto Soffit of	18 days	0 days	18 days	0%	Fri 12/6/20	Sat 4/7/20	NA	NA	Thu 11/6/20	Fri 3/7/20	-1 day	1 day	750	
752	Top Slab (6)+(7) Bay No. 2: Top Slab Cons	struction with Formwork & Falsework Erection(8)	12 days	0 days	12 days	0%	Wed 8/7/20	Tue 21/7/20	NA	NA	Sat 4/7/20	Fri 17/7/20	-3 days	1 day	751,748FF+2	
753	Bay No.4 Base Slab with		15 days		0 days	100%	Wed 1/4/20		Wed 1/4/20	Wed 13/5/20		Wed 13/5/20	0 days	1 day	days 741SS+35 days	
754	·	n with Soffit (upto +4.6mPD) (include Wall Former)	-	-	14 days	36%	Thu 14/5/20	Tue 9/6/20		NA	Thu 14/5/20	Tue 9/6/20	-3 days		753,7508S+7	
755	(3)+(4)+(5)	in Casted and Formwork & Falsework upto Soffit of			20 days	0%	Wed 10/6/20		NA		Sat 6/6/20	Tue 30/6/20	-3 days		days 754	
756	Top Slab (6)+(7)	struction with Formwork & Falsework Erection (8)	-	-	14 days	0%	Mon 6/7/20		NA		Thu 2/7/20	Fri 17/7/20	-3 days		755,751SS+4	
757	Backfill (9)	and the second of the second (0)	14 days		14 days	0%	Wed 22/7/20		NA		Sat 18/7/20	Fri 31/7/20	-3 days		days 756,752,748	
758		Road Reinstatement (10) (KD1)		0 days	6 days	0%	Wed 5/8/20		NA		Sat 1/8/20	Fri 7/8/20	-3 days	-		
759	North Approach Ramp (Bays		92 days		92 days	0%	Mon 24/8/20	Mon 23/11/20		NA	Thu 27/8/20	Thu 17/12/20	3 days	0.5 days	151	
			-											1	740 75200 14 1-	
760	Bay No.5 Base Slab with		-	0 days	8 days	0%	Thu 10/9/20		NA		Mon 14/9/20	Tue 22/9/20	3 days	1 day	749,753SS+4 day	
761	(3+4+5)	n with Soffit (upto +4.6mPD) (include Wall Former)			12 days	0%	Sat 19/9/20	Mon 5/10/20		NA	Wed 23/9/20	Thu 8/10/20	3 days	1 day	760	
762	Top Slab (6)+(7)	in Casted and Formwork & Falsework upto Soffit of	-	-	20 days	0%	Tue 6/10/20	Thu 29/10/20		NA	Fri 9/10/20	Mon 2/11/20	3 days	1 day	761,755SS+4 days	
763	Removal (8)	struction with Formwork & Falsework Erection &	-		12 days	0%	Fri 30/10/20	Thu 12/11/20			Tue 3/11/20	Mon 16/11/20	3 days	1 day	762,227FF	
764	Bay No.6 Base Slab with		15 days	-	15 days	0%	Mon 24/8/20	Wed 9/9/20		NA	Thu 27/8/20	Sat 12/9/20	3 days	1 day	741SS+35 days	
765	(3)+(4)+(5)	n with Soffit (upto +4.6mPD) (include Wall Former)			17 days	0%		Tue 29/9/20							764	
766	Top Slab(6)+(7)	in Casted and Formwork & Falsework upto Soffit of	-	-	27 days	0%	Wed 30/9/20	Tue 3/11/20		NA	Wed 28/10/20	Fri 27/11/20	21 days	1 day	765	
767	Bay No. 6: Top Slab Cons Removal (8)	struction with Formwork & Falsework Erection &	17 days	0 days	17 days	0%	Wed 4/11/20	Mon 23/11/20	NA	NA	Sat 28/11/20	Thu 17/12/20	21 days	1 day	765,766	
768	North Approach Ramp (Bays	7&8) (Next to BEM)	56 days	0 days	56 days	0%	Tue 26/1/21	Wed 7/4/21	NA	NA	Tue 26/1/21	Sat 17/4/21	0 days			
769	Bay 7: Blinding		1 day	0 days	1 day	0%	Tue 26/1/21	Tue 26/1/21	NA	NA	Tue 26/1/21	Tue 26/1/21	0 days	0.5 days	816,767	
770	Bay 7: Base slab		9 days	0 days	9 days	0%	Wed 27/1/21	Fri 5/2/21	NA	NA	Wed 27/1/21	Fri 5/2/21	0 days	1 day	816,769	
771	Bay 7: Wall		13 days	0 days	13 days	0%	Sat 6/2/21	Wed 24/2/21	NA	NA	Wed 31/3/21	Sat 17/4/21	42 days	1 day	819,770	
772	Bay 8: Blinding		1 day	0 days	1 day	0%	Wed 27/1/21	Wed 27/1/21	NA	NA	Fri 5/2/21	Fri 5/2/21	8 days	0.5 days	769	
773	Bay 8: Base slab		9 days	0 days	9 days	0%	Sat 6/2/21	Fri 19/2/21	NA	NA	Sat 6/2/21	Fri 19/2/21	0 days	1 day	816,770,772	
774	Bay 8: Wall		13 days	0 days	13 days	0%	Sat 20/2/21	Sat 6/3/21	NA	NA	Sat 20/2/21	Sat 6/3/21	0 days	1 day	773,819	
775	Bays No.7&8: Backfilling		15 days	0 days	15 days	0%	Mon 8/3/21	Wed 24/3/21	NA	NA	Thu 18/3/21	Wed 7/4/21	9 days	1 day	774,767	
776	Bays No.7&8: Extract She	eetpile	9 days	0 days	9 days	0%	Thu 25/3/21	Wed 7/4/21	NA	NA	Thu 8/4/21	Sat 17/4/21	9 days	0.5 days	775	
777	North Approach Ramp (Bays	No.2,3,4) (Next to KTSP)	149 days	0 days	149 days	0%	Mon 17/8/20	Tue 12/1/21	NA	NA	Tue 25/8/20	Fri 5/2/21	8 days			
778	Bay No.3 Base Slab with	Blinding (1)+(2)	15 days	0 days	15 days	0%	Mon 24/8/20	Wed 9/9/20	NA	NA	Tue 1/9/20	Thu 17/9/20	7 days	1 day		
779	Bay No.3: Wall & Column (3)+(4)+(5)	n with Soffit (upto +4.6mPD) (include Wall Former)	17 days	0 days	17 days	0%	Thu 10/9/20	Tue 29/9/20	NA	NA	Wed 7/10/20	Tue 27/10/20	21 days	1 day	778	
780	Bay No. 3: Wall & Colum	in Casted and Formwork & Falsework upto Soffit of	27 days	0 days	27 days	0%	Wed 30/9/20	Tue 3/11/20	NA	NA	Wed 28/10/20	Fri 27/11/20	21 days	1 day	779	
781	Top Slab(6)+(7) Bay No. 3: Top Slab Cons	struction with Formwork & Falsework Erection &	17 days	0 days	17 days	0%	Wed 4/11/20	Mon 23/11/20	NA	NA	Sat 28/11/20	Thu 17/12/20	21 days	1 day	779,780	
782	Removal (8) Bay No.2 Base Slab with	Blinding (1)+(2)	15 days	0 days	15 days	0%	Mon 17/8/20	Wed 2/9/20	NA	NA	Tue 25/8/20	Thu 10/9/20	7 days	1 day	778FS-21 days	
783		n with Soffit (upto +4.6mPD) (include Wall Former)	17 days	0 days	17 days	0%	Thu 3/9/20	Tue 22/9/20	NA	NA	Wed 7/10/20	Tue 27/10/20	27 days	1 day	782	
	(3)+(4)+(5)	· - · · · ·				Taxa di S								C C		mal M ²¹
	11 Prog with Progress		Summary Project Sum	mary			Milestone 🔷 Summary 📔		Duration-or Manual Sur	nmary Rollup 💼		Start-only Finish-only		3	Exter	nal Mile line
as of 22-	-ividy-20	-	nactive Tas			Manual	Task		Manual Sur	nmary		External Task	s		Criti	al



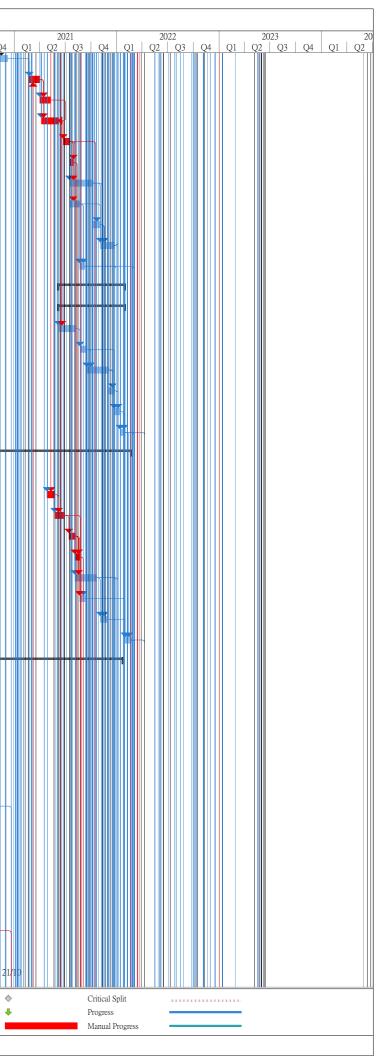
D Tas			Actual	Remaining	Physical %	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total	TRA	Predecessors	2
		Duration	Duration	Duration	Complete							Slack			Q2
784	Bay No. 2: Wall & Column Casted and Formwork & Falsework upto Soffit c Top Slab(6)+(7)	of 27 days	0 days	27 days	0%	Wed 23/9/20	Tue 27/10/20	NA	NA	Wed 28/10/20	Fri 27/11/20	27 days	1 day	783	
785		17 days	0 days	17 days	0%	Wed 28/10/20	Mon 16/11/20	NA	NA	Sat 28/11/20	Thu 17/12/20	27 days	1 day	783,784	
786	Bay No.4 Base Slab with Blinding (1)+(2)	15 days	0 days	15 days	0%	Tue 18/8/20	Thu 3/9/20	NA	NA	Wed 26/8/20	Fri 11/9/20	7 days	1 day	782SS+1 day	
787	Bay No.4: Wall & Column with Soffit (upto +4.6mPD) (include Wall Forme	r) 17 days	0 days	17 days	0%	Fri 4/9/20	Wed 23/9/20	NA	NA	Sat 12/9/20	Sat 3/10/20	7 days	1 day	786	
788	(3)+(4)+(5) Bay No. 4: Wall & Column Casted and Formwork & Falsework upto Soffit c	of 27 days	0 days	27 days	0%	Thu 24/9/20	Wed 28/10/20	NA	NA	Mon 5/10/20	Thu 5/11/20		1 day	787	
	Top Slab(6)+(7)		-												
789	Bay No. 4: Top Slab Construction with Formwork & Falsework Erection & Removal (8)	1 / days	0 days	17 days	0%	Thu 29/10/20	Tue 17/11/20		NA	Fri 6/11/20	Wed 25/11/20	7 days	1 day	787,788	
790	Bay No.2,3&4: Backfilling upto +3.0mPD	28 days	0 days	28 days	0%	Tue 24/11/20	Mon 28/12/20	NA	NA	Fri 18/12/20	Fri 22/1/21	21 days	1 day	789,785,781,767	
791	Bay No.4: Sheetpile Extraction (KD2)	12 days	0 days	12 days	0%	Tue 29/12/20	Tue 12/1/21	NA	NA	Sat 23/1/21	Fri 5/2/21	21 days	0.5 days	790	
792	North Approach Ramp (Bays No.5,6) (Next to KTSP)	141 days	0 days	141 days	0%	Wed 18/11/20	Wed 7/4/21	NA	NA	Thu 26/11/20	Sat 10/4/21	3 days			
793	Bay No.5 Base Slab with Blinding (1)+(2)	15 days	0 days	15 days	0%	Mon 23/11/20	Wed 9/12/20	NA	NA	Thu 26/11/20	Sat 12/12/20	3 days	1 day	741SS+35 days,	
794	Bay No.5: Wall & Column with Soffit (upto +4.6mPD) (include Wall Forme	r) 17 days	0 days	17 days	0%	Thu 10/12/20	Thu 31/12/20	NΔ	NA	Mon 14/12/20	Tue 5/1/21	3 days	1 day	793	
	(3)+(4)+(5)		-												
795	Bay No. 5: Wall & Column Casted and Formwork & Falsework upto Soffit c Top Slab(6)+(7)	of 27 days	0 days	27 days	0%	Sat 2/1/21	Tue 2/2/21	NA	NA	Wed 6/1/21	Fri 5/2/21	3 days	1 day	794	
796	Bay No. 5: Top Slab Construction with Formwork & Falsework Erection & Removal (8)	17 days	0 days	17 days	0%	Wed 3/2/21	Thu 25/2/21	NA	NA	Sat 6/2/21	Mon 1/3/21	3 days	1 day	794,795,791	
797	Bay No.6 Base Slab with Blinding (1)+(2)	15 days	0 days	15 days	0%	Wed 18/11/20	Fri 4/12/20	NA	NA	Thu 26/11/20	Sat 12/12/20	7 days	1 day	789	
798	Bay No.6: Wall & Column with Soffit (upto +4.6mPD) (include Wall Forme	r) 17 days	0 days	17 days	0%	Sat 5/12/20	Thu 24/12/20	NA	NA	Mon 14/12/20	Tue 5/1/21	7 days	1 day	797	
799	(3)+(4)+(5) Bay No. 6: Wall & Column Casted and Formwork & Falsework upto Soffit c	of 27 days	0 days	27 days	0%	Mon 28/12/20	Thu 28/1/21	NA	NA	Wed 6/1/21	Fri 5/2/21	7 days	1 day	798	
800	Top Slab(6)+(7) Bay No. 6: Top Slab Construction with Formwork & Falsework Erection &			17 days	0%	Fri 29/1/21		NA	NA	Sat 6/2/21	Mon 1/3/21		1 day	798,799	
	Removal (8)														
801	Bay No.5&6: Backfilling upto +3.0mPD	26 days		26 days	0%	Fri 26/2/21		NA	NA	Tue 2/3/21	Wed 31/3/21	-	1 day	790,800,796	
802	Bay No.5&6: Sheetpile Extraction (KD2)	6 days	0 days	6 days	0%	Mon 29/3/21	Wed 7/4/21	NA	NA	Thu 1/4/21	Sat 10/4/21	3 days	0.5 days	801,791	
803	North Approach Ramp (Bays 7&8) (Next to KTSP)	79 days	0 days	79 days	0%	Fri 29/1/21	Sat 17/4/21	NA	NA	Thu 11/2/21	Sat 17/4/21	0 days			
804	Bay 7: Base slab	9 days	0 days	9 days	0%	Fri 29/1/21	Mon 8/2/21	NA	NA	Thu 11/2/21	Wed 24/2/21	11 days	0.5 days	816,799	
805	Bay 7: Wall	12 days	0 days	12 days	0%	Mon 8/3/21	Sat 20/3/21	NA	NA	Mon 8/3/21	Sat 20/3/21	0 days	1 day	804,819,774	
806	Bay 8: Base slab		0 days	9 days	0%	Tue 9/2/21	Mon 22/2/21		NA	Thu 25/2/21	Sat 6/3/21	11 days	-	804,816	
	·													,	
807	Bay 8: Wall	12 days	0 days	12 days	0%	Tue 23/2/21	Mon 8/3/21	NA	NA	Mon 8/3/21	Sat 20/3/21	11 days	1 day	806,819	
808	Bays No.7&8: Backfilling	15 days	0 days	15 days	0%	Mon 22/3/21	Sat 10/4/21	NA	NA	Mon 22/3/21	Sat 10/4/21	0 days	1 day	807,805	
809	Bays No.7&8: Extract Sheetpile	6 days	0 days	6 days	0%	Mon 12/4/21	Sat 17/4/21	NA	NA	Mon 12/4/21	Sat 17/4/21	0 days	1 day	808,801,802	
810	CH1087-1189 (100m): North Approach Ramp: Parapet, Central Median &	77 days	0 days	77 days	0%	Mon 19/4/21	Wed 21/7/21	NA	NA	Thu 23/9/21	Tue 14/12/21	122 days		718	
811	Furniture CH1087-1189: Parapet (28m per day per team) x 1 team + 6 day concreting	23 days	0 days	23 days	0%	Mon 19/4/21	Sat 15/5/21	NA	NA	Thu 23/9/21	Thu 21/10/21	130 days	2 day	809,776,821	
812	CH1087-1189: Central Median and Utilties Trough (6m per day per team) x			25 days	0%	Thu 27/5/21		NA	NA	Fri 22/10/21	Fri 19/11/21	122 days	-	811,236	
	team			-											
813	CH1087-1189: Road Furniture	21 days		21 days	0%	Sat 26/6/21	Wed 21/7/21		NA	Sat 20/11/21	Tue 14/12/21	122 days	5 days	812,358	
814	North Approach Ramp: Bay No. 1	135 days	0 days	135 days	0%	Fri 14/8/20	Mon 25/1/21	NA	NA	Fri 14/8/20	Mon 25/1/21	0 days			
815	Bay 1: Base slab	27 days	0 days	27 days	0%	Fri 14/8/20	Mon 14/9/20	NA	NA	Fri 14/8/20	Mon 14/9/20	0 days	0.5 days	834	
816	Bay 1: Wall	83 days	0 days	83 days	0%	Fri 16/10/20	Mon 25/1/21	NA	NA	Fri 16/10/20	Mon 25/1/21	0 days	3 days	819	
817	Part 3G - CH1189.4 to CH1229 North Abutment	180 days	0 days	180 days	0%	Tue 15/9/20	Mon 26/4/21	NA	NA	Tue 15/9/20	Mon 26/4/21	0 days			
818	North Abutment	180 days		180 days	0%	Tue 15/9/20	Mon 26/4/21		NA	Tue 15/9/20	Mon 26/4/21	0 days			
				-								-	1.3	015	
819	North Abutment - Base Slab	25 days		25 days	0%	Tue 15/9/20	Thu 15/10/20		NA	Tue 15/9/20	Thu 15/10/20		1 day	815	
820	North Abutment Wall (3.85m thk)	37 days	0 days	37 days	0%	Tue 26/1/21	Fri 12/3/21	NA	NA	Tue 26/1/21	Fri 12/3/21	0 days	1 day	816	
821	North Abutment Wall (0.5m thk) (KD2) (KD3)	28 days	0 days	28 days	0%	Sat 13/3/21	Sat 17/4/21	NA	NA	Sat 13/3/21	Sat 17/4/21	0 days	1 day	820	
822	Install bridge bearing	7 days	0 days	7 days	0%	Mon 19/4/21	Mon 26/4/21	NA	NA	Mon 19/4/21	Mon 26/4/21	0 days	0.5 days	821,736	
823	At Grade Road Works CH1000-2124	157 days	0 days	157 days	0%	Tue 10/8/21	Fri 18/2/22	NA	NA	Thu 4/11/21	Tue 1/3/22	9 days			
824	CH1000-1087 At grade road works	60 days		60 days	0%	Tue 10/8/21	Thu 21/10/21		NA	Wed 15/12/21	Tue 1/3/22	106 days	1 day	776,809,332,341	
825	CH1444.7-1560 At grade road works	45 days	0 days	45 days	0%	Wed 22/12/21	Fn 18/2/22	NA	NA	Wed 5/1/22	Tue 1/3/22	-	1 day	1293,826,219	
826	Ch2050 to 2124: At grade road works	50 days	0 days	50 days	0%	Mon 25/10/21	Tue 21/12/21	NA	NA	Thu 4/11/21	Tue 4/1/22	9 days	1 day	1438,219	
827	Bridge D3 Bored Pile	17 days	17 days	0 days	0%	Tue 19/11/19	Thu 5/12/19	Tue 19/11/19	Thu 5/12/19	Tue 19/11/19	Thu 5/12/19	0 days			
828	Pre-drilling Works	15 days	15 days	0 days	100%	Tue 19/11/19	Thu 5/12/19	Tue 19/11/19	Thu 5/12/19	Tue 19/11/19	Thu 5/12/19	0 days	0.5 day		
	_														
Title: Rev.	11 Prog with Progress	Summary			Inactive N			Duration-on	-		Start-only		C		ernal Mi
as of 22-	May-20 Split Milestone	Project Surr Inactive Tas		1	Inactive S Manual T			 Manual Surr Manual Surr 	umary Rollup 🗧 umary		 Finish-only External Task 	cs	3	Dea	dline ical
	winestone 🔻	macuve 18	on	L	ivialiual I			International Sull			 LAIGHIGI 1 dSK 	10		Chi	ical



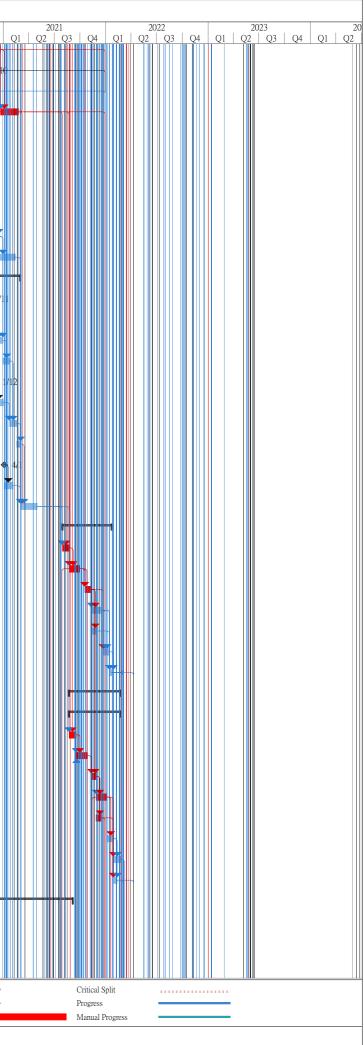
) Task I	Jame	Duration	Actual	Remaining	Physical %	Early Start		ract No. ED/	Actual Einich	Late Start	Late Finish	Total	TRA	Predecessors	20)20
]	Duration	Duration	Complete							Slack	IKA	Predecessors	Q2	
829	Part 3C - CH1229 to CH1279	823 days?	137.51 days	685.49 days?	0%	Thu 16/5/19	Sat 19/2/22	Thu 16/5/19	NA	Mon 11/11/19	Wed 29/5/24	676 da				T
830	Abutment A01 Piling	0 days (0 days	0 days	0%	Thu 16/5/19	Thu 16/5/19	NA	NA	Wed 29/5/24	Wed 29/5/24	1841 d				
831	CH1189: Bored Pile (A01-BP1) by Rig 1(Contractor Bear DDA Approval Risk)	61 days	40 days	21 days	66%	Tue 31/3/20	Tue 16/6/20	Tue 31/3/20	NA	Tue 31/3/20	Tue 16/6/20	0 days	1 day	839		
832	CH1189: Bored Pile (A01-BP2) by Rig 1 (Contractor Bear DDA Approval Risk)	29 days	29 days	0 days	100%	Mon 13/4/20	Tue 19/5/20	Mon 13/4/20	Tue 19/5/20	Mon 13/4/20	Tue 19/5/20	0 days	1 day			
833	Abutment A01: Pile Testing (28d curing & 14 test) - 1 full-core to be carried out	37 days	0 days	37 days	0%	Wed 17/6/20	Fri 31/7/20	NA	NA	Wed 17/6/20	Fri 31/7/20	0 days	5 days	831,832		k h
834	Abutment A01: Proof-drilling Works	11 days (0 days	11 days	0%	Sat 1/8/20	Thu 13/8/20	NA	NA	Sat 1/8/20	Thu 13/8/20	0 days	2 day	833		
835	Mobilization of plant and material	6 days	6 days	0 days	100%	Mon 11/11/19	Sat 16/11/19	Mon 11/11/19	Sat 16/11/19	Mon 11/11/19	Sat 16/11/19	0 days	1 days	14,194,193		
836	CH1229: Pre-drilling Works	21 days	21 days	0 days	100%	Tue 19/11/19	Thu 12/12/19	Tue 19/11/19	Thu 12/12/19	Tue 19/11/19	Thu 12/12/19	0 days	0.5 days			
837	Pier P01 Piling, Pilecap & Pier	0 days	0 days	0 days	0%	Thu 16/5/19	Thu 16/5/19	NA	NA	Wed 29/5/24	Wed 29/5/24	1841 d				
838		44 days	44 days	0 days	100%	Fri 17/1/20	Wed 11/3/20	Fri 17/1/20	Wed 11/3/20	Fri 17/1/20	Wed 11/3/20	0 days	0.5 days			
839	Risk) Bored pile (P01-BP1) @ CH1229 by Rig 1 (Contractor Bear DDA Approval	38 days	38 days	0 days	100%	Mon 24/2/20	Wed 8/4/20	Mon 24/2/20	Wed 8/4/20	Mon 24/2/20	Wed 8/4/20	0 days	0.5 days	838SS+30 days		
840	Risk)	45 days (45 days	0%	Sat 23/5/20	Thu 16/7/20	NA	NA	Mon 6/7/20	Wed 26/8/20	35 days	3 days	839	+	
841		10 days		10 days	0%	Fri 17/7/20	Tue 28/7/20			Thu 27/8/20	Mon 7/9/20	35 days		839,840		₽
842	-	98 days (-	98 days	0%	Mon 15/6/20	Sun 11/10/20		NA	Sat 29/8/20	Fri 13/11/20	28 days	,			\square
843	-	17 days (-	17 days	0%	Wed 29/7/20	Mon 17/8/20		NA	Tue 8/9/20	Sat 26/9/20	35 days	1 day	841	"	
			-	-										041		
844			0 days	0 days	0%	Mon 15/6/20	Mon 15/6/20			Sat 29/8/20	Sat 29/8/20	75 days		0.11		15/
845		30 days (30 days	0%	Mon 15/6/20	Tue 14/7/20		NA	Sat 29/8/20	Sun 27/9/20	75 days		844		
846	-	24 days (-	24 days	0%	Tue 18/8/20	Mon 14/9/20			Mon 28/9/20	Wed 28/10/20	35 days		845,843		
847	Backfill	14 days (0 days	14 days	0%	Tue 15/9/20	Wed 30/9/20	NA	NA	Thu 29/10/20	Fri 13/11/20	35 days	2 days	846		
848	Pier - Formwork Design and Method Statement Submission	0 days (0 days	0 days	0%	Mon 7/9/20	Mon 7/9/20	NA	NA	Sat 10/10/20	Sat 10/10/20	33 days	1 day			
849	Pier - Formwork Design and Method Statement Comment & Appraoval	35 days (0 days	35 days	0%	Mon 7/9/20	Sun 11/10/20	NA	NA	Sat 10/10/20	Fri 13/11/20	33 days	1 day	848		
850	Pier P01 @ CH1229	49 days (0 days	49 days	0%	Wed 28/10/20	Wed 23/12/20	NA	NA	Sat 14/11/20	Wed 13/1/21	15 days	2 days	847,211,849		
851	CH1269: Pre-drilling Works	30 days	30 days	0 days	0%	Wed 20/11/19	Thu 19/12/19	Wed 20/11/19	Thu 19/12/19	Wed 20/11/19	Thu 19/12/19	0 days	0.5 days	835,836		
852	Abandon the Installed defected Bored pile (P02-BP2) @ CH1269	35 days	35 days	0 days	100%	Tue 11/2/20	Sun 22/3/20	Tue 11/2/20	Sun 22/3/20	Tue 11/2/20	Sun 22/3/20	0 days	0.5 days	851		\parallel
853	Pier P02 Piling, Pilecap & Pier	1 day?	0 days	1 day?	0%	Thu 16/5/19	Thu 16/5/19	NA	NA	Wed 29/5/24	Wed 29/5/24	1840 d				
354	Predrilling works for Bored pile (P02-BP2)(Abandoned) @ CH1269	11 days	0 days	11 days	0%	Wed 3/6/20	Mon 15/6/20	NA	NA	Tue 9/6/20	Sat 20/6/20	5 days	0.5 days	852		
855	Casing Extraction for Abandoned P02-BP2 Bored Pile	20 days	0 days	20 days	0%	Sat 20/6/20	Wed 15/7/20	NA	NA	Mon 22/6/20	Thu 16/7/20	1 day	1 day	854		
856	Bored pile (P02-BP2)(Remedial) @ CH1269	30 days	0 days	30 days	0%	Thu 16/7/20	Wed 19/8/20	NA	NA	Fri 17/7/20	Thu 20/8/20	1 day	2 days	855,854		
857	Bored pile (P02-BP1) @ CH1269 (Contractor Bear DDA Approval Risk) (Rig 2)	26 days	26 days	0 days	100%	Fri 21/2/20	Sat 18/4/20	Fri 21/2/20	Sat 18/4/20	Fri 21/2/20	Sat 18/4/20	0 days	0.5 days	851	+	
858	Pile Testing (18d curing & 14 test)	32 days	0 days	32 days	0%	Thu 20/8/20	Fri 25/9/20	NA	NA	Wed 2/9/20	Sat 10/10/20	11 days	0.5 days	852,857,856		•
859			0 days	9 days	0%	Sat 26/9/20	Thu 8/10/20	NA	NA	Mon 12/10/20	Wed 21/10/20	11 days	1 dav	839,840,858		
860	-		0 days	0 days	0%	Mon 29/6/20	Mon 29/6/20		NA	Tue 22/9/20	Tue 22/9/20	85 days				a 2
861		30 days	-	30 days	0%	Mon 29/6/20	Tue 28/7/20			Tue 22/9/20	Wed 21/10/20	85 days		860		
	Appraoval		-	-			Sat 16/1/21			Thu 22/10/20	Fri 29/1/21		1 uay	000		
862		120 days (120 days	0%	Mon 24/8/20						11 days	2,2	061 050 140 050		
863		17 days (17 days	0%	Fri 9/10/20	Thu 29/10/20			Thu 22/10/20		11 days		861,858,140,859		
864		18 days (18 days	0%	Fri 30/10/20	Thu 19/11/20		NA	Thu 12/11/20	Wed 2/12/20	11 days		863		
865			0 days	0 days	0%	Mon 24/8/20	Mon 24/8/20		NA	Thu 12/11/20	Thu 12/11/20	80 days				
866		21 days (21 days	0%	Mon 24/8/20	Sun 13/9/20			Thu 12/11/20	Wed 2/12/20	80 days		865		
867	Pilecap structure	36 days (0 days	36 days	0%	Fri 20/11/20	Mon 4/1/21	NA	NA	Thu 3/12/20	Sat 16/1/21	11 days	1 day	866,864,863		
868	Backfill and extract sheet pile	11 days (0 days	11 days	0%	Tue 5/1/21	Sat 16/1/21	NA	NA	Mon 18/1/21	Fri 29/1/21	11 days	2 day	867		
869	Pier - Temp. Works Design and Method Statement Submission	0 days (0 days	0 days	0%	Mon 7/9/20	Mon 7/9/20	NA	NA	Thu 31/12/20	Thu 31/12/20	115 days	s 1 day			
870	Pier - Temp. Works Design and Method Statement Comment & Appraoval	30 days (0 days	30 days	0%	Mon 7/9/20	Tue 6/10/20	NA	NA	Thu 31/12/20	Fri 29/1/21	115 days	s 1 day	869		
871	Pier P02 @ CH1270	49 days (0 days	49 days	0%	Mon 18/1/21	Thu 18/3/21	NA	NA	Sat 30/1/21	Wed 31/3/21	11 days	1 day	868,211,870		
872	Stage 1: Bridge deck between CH1229-1311	340 days (0 days	340 days	0%	Mon 2/11/20	Tue 21/12/21	NA	NA	Tue 19/1/21	Wed 29/12/21	5 days				
873	Bridge Deck - Temp. Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Mon 2/11/20	Mon 2/11/20	NA	NA	Tue 19/1/21	Tue 19/1/21	78 days	1 day			
	T _{al} .				Taxa at a b	Glastanc A		Durnet			St. 1		Г	P.		
Title: Rev.11 as of 22-Ma	Prog with Progress	ummary roject Sumr	nary		Inactive N Inactive S			Duration-on Manual Sun	iy 🔜 🛄 nmary Rollup 💼		Start-only Finish-only		3	Exten	nal Mile ine	ston
			c [-			_		-				al	



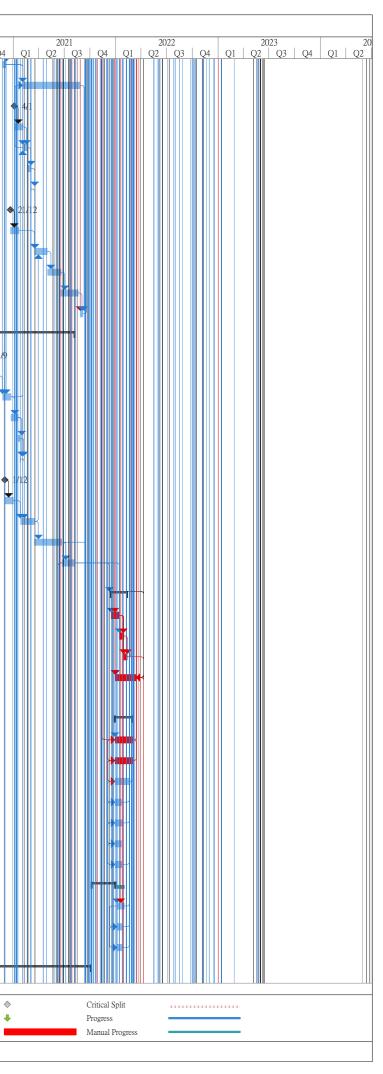
) (Task Name		Duration	Actual	Domoining	Dhusical 0/	Farly Stout	Forly Einish	Actual Start	Actual Emi-1	Lata Start	Late Einich	Total	TPA	Predecessors	0	020
	Fask Name		Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total Slack	TRA	Predecessors		.020 Q
874	Bridge Deck - Temp. Works D Appraoval	esign and Method Statement Comment &	35 days	0 days	35 days	0%	Mon 2/11/20	Sun 6/12/20	NA	NA	Tue 19/1/21	Mon 22/2/21	78 days	1 day	873		
75	CH1229-1311: Deck Falsework	cerection Part 1	32 days	0 days	32 days	0%	Tue 23/2/21	Wed 31/3/21	NA	NA	Tue 23/2/21	Wed 31/3/21	0 days	1 day	874,922		
76	CH1229-1311: Deck Falsework	c erection Part 2	28 days	0 days	28 days	0%	Thu 1/4/21	Fri 7/5/21	NA	NA	Thu 1/4/21	Fri 7/5/21	0 days	3 days	875,871		
7	CH1229-1311: Structure deck		50 days	0 days	50 days	0%	Wed 7/4/21	Sat 5/6/21	NA	NA	Wed 7/4/21	Sat 5/6/21	0 days	2 day	475,483,736,87	5	
78	CH1229-1311: Prestressing		18 days	0 days	18 days	0%	Thu 24/6/21	Thu 15/7/21	NA	NA	Thu 24/6/21	Thu 15/7/21	0 days	0.5 day	877FS+14 days		
79	CH1229-1311: Falsework Under	er Main Deck Removal	12 days	0 days	12 days	0%	Fri 16/7/21	Thu 29/7/21	NA	NA	Fri 16/7/21	Thu 29/7/21	0 days	0.5 day	878		
80	CH1229-1311: Utility Trough	(0.67m per day per team) x 4 team	70 days	0 davs	70 days	0%	Fri 16/7/21	Thu 7/10/21	NA	NA	Thu 22/7/21	Wed 13/10/21	5 days	9 days	219,878		
81	, C		31 days		31 days	0%	Fri 16/7/21	Fri 20/8/21	NA	NA	Sat 2/10/21	Mon 8/11/21	65 days		878	-	
382		er day per team) x 2 team + $6x2$ day concreting			21 days	0%	Fri 8/10/21	Tue 2/11/21		NA	Fri 15/10/21	Mon 8/11/21		3 days	880		
					-	0%									880,882,881		
383	CH1229-1311: Removal of Fal	. ,	42 days		42 days		Wed 3/11/21	Tue 21/12/21		NA	Tue 9/11/21	Wed 29/12/21		6 days	,,		
884	CH1229-1311: Road Furniture		15 days	0 days	15 days	0%	Sat 21/8/21	Tue 7/9/21	NA	NA	Sat 27/11/21	Tue 14/12/21	81 days	1 day	881,358		
885	Part 3D - CH1279 to CH1311		196 days	0 days	196 days	0%	Mon 7/6/21	Sat 29/1/22	NA	NA	Wed 16/6/21	Fri 11/2/22	7 days				
886	Stage 1: Bridge deck between 0	CH1269-1311	196 days	0 days	196 days	0%	Mon 7/6/21	Sat 29/1/22	NA	NA	Wed 16/6/21	Fri 11/2/22	7 days				
887	CH1269-1311: Structure de	ck	50 days	0 days	50 days	0%	Mon 7/6/21	Thu 5/8/21	NA	NA	Wed 16/6/21	Fri 13/8/21	7 days	2 day	475,483,736,87	7	
888	Prestressing CH1269 - 1311	Bridge Spans	21 days	0 days	21 days	0%	Mon 23/8/21	Wed 15/9/21	NA	NA	Tue 31/8/21	Fri 24/9/21	7 days	3 day	887FS+14 days		
889	CH1269-1311: Utility Trou	gh (0.67m per day per team) x 2 team	64 days	0 days	64 days	0%	Thu 16/9/21	Thu 2/12/21	NA	NA	Sat 25/9/21	Fri 10/12/21	7 days	0.5 day	888,219		
890		m per day per team) x 1 team + 6 day	17 days	0 days	17 days	0%	Fri 3/12/21	Wed 22/12/21	NA	NA	Sat 11/12/21	Mon 3/1/22	7 days	3 days	889		
891	CH1269-1311 : Central Me	dian (6m per day per team) x 1 team	15 days	0 days	15 days	0%	Thu 23/12/21	Wed 12/1/22	NA	NA	Wed 5/1/22	Fri 21/1/22	8 days	1 day	889,890		
892	CH1269-1311 : Road Furnit	ture	15 days	0 days	15 days	0%	Thu 13/1/22	Sat 29/1/22	NA	NA	Sat 22/1/22	Fri 11/2/22	8 days	1 day	891,358		
893	Stage2: Bridge deck between CH1		823 days?		823 days?	0%	Thu 16/5/19	Sat 19/2/22	NA	NA	Tue 27/4/21	Wed 29/5/24	579 da				
394	CH1189-1229: Deck Falsework		1 day?		1 day?	0%	Thu 16/5/19	Thu 16/5/19		NA	Wed 29/5/24	Wed 29/5/24	1840 d				
					-									1.1	050.000		
895	CH1189-1229: Deck Falsework		22 days	-	22 days	0%	Tue 27/4/21	Mon 24/5/21		NA	Tue 27/4/21	Mon 24/5/21		1 day	850,822		
896	CH1189-1229: Structure deck		27 days		27 days	0%	Tue 25/5/21	Fri 25/6/21	NA	NA	Tue 25/5/21	Fri 25/6/21		2 day	895,475,483		
897	CH1189-1229: Prestressing		18 days	0 days	18 days	0%	Wed 14/7/21	Tue 3/8/21	NA	NA	Wed 14/7/21	Tue 3/8/21	0 days	1 day	896FS+14 days		
898	CH1189-1229: Falsework Under	er Main Deck Removal	15 days	0 days	15 days	0%	Wed 4/8/21	Fri 20/8/21	NA	NA	Wed 4/8/21	Fri 20/8/21	0 days	3 days	878,897		
899	CH1189-1229: Utility Trough	(0.67m per day per team) x 2 team	63 days	0 days	63 days	0%	Wed 4/8/21	Tue 19/10/21	NA	NA	Wed 13/10/21	Tue 28/12/21	58 days	3 days	219,897		
900	CH1189-1229 : Central Mediar	n (6m per day per team) x 1 team	16 days	0 days	16 days	0%	Sat 21/8/21	Wed 8/9/21	NA	NA	Fri 21/1/22	Fri 11/2/22	125 days	3 day	897,881		
901	CH1189-1229 : Parapet (28m p	er day per team) x 1 team + 6 day concreting	20 days	0 days	20 days	0%	Wed 3/11/21	Thu 25/11/21	NA	NA	Mon 17/1/22	Fri 11/2/22	61 days	5 day	899,882		
902	CH1189-1229 : Road Furniture		15 days	0 days	15 days	0%	Mon 31/1/22	Sat 19/2/22	NA	NA	Sat 12/2/22	Tue 1/3/22	8 days	1 day	900,892,358,90	1	
903	Part 3E - CH1311 to CH1372		652 days	94.1 days	557.9 days	0%	Tue 12/11/19	Fri 21/1/22	Tue 12/11/19	NA	Tue 12/11/19	Wed 29/5/24	698 days				┥
904	Pre-drilling Works		31 days	31 days	0 days	0%	Tue 12/11/19	Tue 17/12/19	Tue 12/11/19	Tue 17/12/19	Tue 12/11/19	Tue 17/12/19	0 days	0.5 day			
905	Bored pile (P03-BP1) @ CH1311	(Rig 2) (Contractor Bear DDA Design Risk)	40 days	40 days	0 days	100%	Tue 17/3/20	Fri 8/5/20	Tue 17/3/20	Fri 8/5/20	Tue 17/3/20	Fri 8/5/20	0 days	0.5 day	904		
906	Bored pile (P03-BP2) @ CH1311		36 days		11 days	69%	Wed 22/4/20	Thu 4/6/20	Wed 22/4/20	NA	Wed 22/4/20	Thu 4/6/20		3 day			
907	Pile Testing (18 curing & 14 test)		35 days		35 days	0%	Sat 6/6/20	Sat 18/7/20	NA	NA	Sat 6/6/20	Sat 18/7/20		3 day	906FS+1 day,90		
908	Proof-drilling Works				11 days	0%	Mon 20/7/20	Fri 31/7/20	NA	NA	Mon 20/7/20	Fri 31/7/20		2 days	9001/3+1 uay,90		
	C C		11 days		-									2 uays	201		
909	Pile Cap P03 @ CH1311		76 days		76 days	0%	Tue 7/7/20	Mon 5/10/20		NA	Fri 31/7/20	Wed 29/5/24	21 days		000		
910	Pile Cap @ CH1311 by Open (46 days		46 days	0%	Sat 1/8/20	Wed 23/9/20		NA	Wed 28/10/20	Sat 19/12/20	72 days		908		
911	Pilecap Formwork Design and		0 days	0 days	0 days	0%	Tue 7/7/20	Tue 7/7/20	NA	NA	Tue 30/4/24	Tue 30/4/24	1393 days	1 day			
912	Pilecap Formwork Design and	Method Statement Comment & Appraoval	30 days	0 days	30 days	0%	Tue 7/7/20	Wed 5/8/20	NA	NA	Tue 30/4/24	Wed 29/5/24	1393 days	1 day	911		
913	Excavation with Shoring Instal	lation ~2600m3 Prod. Rate: 160m3/day/team	17 days	0 days	17 days	0%	Sat 1/8/20	Thu 20/8/20	NA	NA	Sat 1/8/20	Thu 20/8/20	0 days	1 day	908	1	
914	Pilecap Formwork - design and	Method Statement Submission	0 days	0 days	0 days	0%	Mon 20/7/20	Mon 20/7/20	NA	NA	Fri 31/7/20	Fri 31/7/20	11 days	1 day			
915	Pilecap Formwork - Design and	d Method Statement Comment & Appraoval	21 days	0 days	21 days	0%	Mon 20/7/20	Sun 9/8/20	NA	NA	Fri 31/7/20	Thu 20/8/20	11 days	1 day	914		
916	Pilecap structure		24 days	0 days	24 days	0%	Fri 21/8/20	Thu 17/9/20	NA	NA	Fri 21/8/20	Thu 17/9/20	0 days	1 day	915,908,913		
917	Backfill		13 days	0 days	13 days	0%	Fri 18/9/20	Mon 5/10/20	NA	NA	Fri 18/9/20	Mon 5/10/20		1 day	916		
918	Agree Interface Coordination Plan		14 days		14 days	0%	Tue 6/10/20	Wed 21/10/20		NA	Tue 6/10/20	Wed 21/10/20		0 days	917		
					uugo												
itle: Re	ev. I I Prod with Progress		ummary	2021		Inactive M Inactive S			Duration-on Manual Surr	-		Start-only Finish-only		C 3		ernal Mi Idline	les
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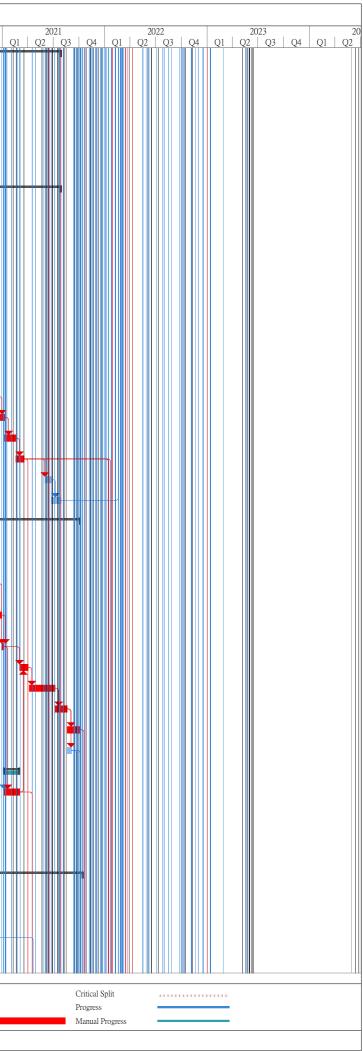
) Task	Name		Duration	Actual	Remaining	Physical %	Early Start		Actual Start	2018/01 KT		Late Finish	Total	TRA	Predecessors	20)20
				Duration	Duration	Complete							Slack			Q2	
019	App.1.18 2.7(A)(c)	ntractor for sheet pile wall installation. PS	60 days	0 days	60 days	0%	Thu 22/10/20			NA	Thu 22/10/20	Sun 20/12/20	0 days	0 days	917,918		
20	Pier - Temp. Works Design and	l Method Statement Submission	0 days	0 days	0 days	0%	Mon 12/10/20	Mon 12/10/20	NA	NA	Mon 16/11/20	Mon 16/11/20	35 days	1 day			
21	Pier - Temp. Works Design and	l Method Statement Comment & Approval	35 days	0 days	35 days	0%	Mon 12/10/20	Sun 15/11/20	NA	NA	Mon 16/11/20	Sun 20/12/20	35 days	1 day	920		
22	Pier P03 @ CH1311		49 days	0 days	49 days	0%	Mon 21/12/20	Mon 22/2/21	NA	NA	Mon 21/12/20	Mon 22/2/21	0 days	1 day	916,919,850SS+		
923	Pre-drilling Works		15 days	15 days	0 days	100%	Wed 4/12/19	Wed 18/12/19	Wed 4/12/19	Wed 18/12/	Wed 4/12/19	Wed 18/12/19	0 days	0.5 days			₩
924	Diversion of existing 150mm d	ia. Watermain (agreed)	54 days	42 days	12 days	78%	Sat 28/3/20	Fri 5/6/20	Sat 28/3/20	NA	Sat 28/3/20	Sat 14/11/20	134 days	2 days			
925	Bored pile (P04-BP2) @ CH13	51 (Rig 2)	52 days	1 day	51 days	0%	Fri 22/5/20	Wed 21/10/20	Fri 22/5/20	NA	Fri 22/5/20	Tue 19/1/21	73 days	3 days	923,856		
926	Bored pile (P04-BP1) @ CH13	51 (Rig 2)	53 days	0 days	53 days	0%	Tue 11/8/20	Tue 13/10/20	NA	NA	Mon 16/11/20	Tue 19/1/21	80 days	3 days	202,924,923,925	L	- Y
927	Pile Testing (14d curing & 14	est)	35 days	0 days	35 days	0%	Thu 22/10/20	Wed 2/12/20	NA	NA	Wed 20/1/21	Thu 4/3/21	73 days	3 days	926,925		
928	Proof-drilling Works		11 days	0 davs	11 days	0%	Thu 3/12/20	Tue 15/12/20	NA	NA	Fri 5/3/21	Wed 17/3/21	73 days	2 days	927		
929	Pile Cap P04 @ CH1351 with	FIS	47 days	-	47 days	0%	Wed 16/12/20			NA	Thu 1/4/21	Mon 31/5/21	85 days		933SS,928		
930	Pile Cap @ CH1351			-	97 days	0%	Mon 2/11/20	Mon 1/3/21		NA	Tue 16/2/21	Mon 31/5/21			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	-		97 days	-									73 days	1.1			
931		ethod Statement Submission	-	0 days	0 days	0%	Mon 2/11/20	Mon 2/11/20		NA	Tue 16/2/21	Tue 16/2/21	106 days	-	001		
932		fethod Statement Comment & Appraoval	30 days	-	30 days	0%	Mon 2/11/20	Tue 1/12/20		NA	Tue 16/2/21	Wed 17/3/21	106 days	-	931		
933	Drive sheetpile (~75m). Pro	d. Rate: 10m/day/side/team	10 days	0 days	10 days	0%	Wed 16/12/20	Tue 29/12/20	NA	NA	Thu 18/3/21	Mon 29/3/21	73 days	2 days	932,928		
934	Excavation with Shoring In	stallation ~2600m3 Prod. Rate: 160m3/day/team	19 days	0 days	19 days	0%	Wed 30/12/20	Thu 21/1/21	NA	NA	Tue 30/3/21	Fri 23/4/21	73 days	2 day	933		
935	Pilecap Formwork- Design	and Method Statement Submission	0 days	0 days	0 days	0%	Tue 1/12/20	Tue 1/12/20	NA	NA	Thu 25/3/21	Thu 25/3/21	114 days	1 day			
936	Pilecap Formworks - Desig	n and Method Statement Comment & Appraoval	30 days	0 days	30 days	0%	Tue 1/12/20	Wed 30/12/20	NA	NA	Thu 25/3/21	Fri 23/4/21	114 days	1 day	935		
937	Pile Cap structure		19 days	0 days	19 days	0%	Fri 22/1/21	Tue 16/2/21	NA	NA	Sat 24/4/21	Mon 17/5/21	73 days	1 day	846,936,934		
938	Backfill and extract sheet p	le	11 days	0 days	11 days	0%	Wed 17/2/21	Mon 1/3/21	NA	NA	Tue 18/5/21	Mon 31/5/21	73 days	2 days	937		
939	Pier - Temporary Design an	d Method Statement Submission	0 days	0 days	0 days	0%	Mon 4/1/21	Mon 4/1/21	NA	NA	Sun 2/5/21	Sun 2/5/21	118 days	1 day			
940	Pier - Temporary Design an	d Method Statement Comment & Appraoval	30 days	0 days	30 days	0%	Mon 4/1/21	Tue 2/2/21	NA	NA	Sun 2/5/21	Mon 31/5/21	118 days	1 day	939		
941	Pier P04 @ CH1351		49 days	0 days	49 days	0%	Tue 2/3/21	Fri 30/4/21	NA	NA	Tue 1/6/21	Thu 29/7/21	73 days	1 day	938,922,211,940		
942	Stage 3: Bridge deck between 0	°H1311-1351	145 days	-	145 days	0%	Fri 30/7/21	Fri 21/1/22	NA	NA	Fri 30/7/21	Sat 29/1/22	0 days				
943	CH1311-1351: Deck Falsev		21 days	-	21 days	0%	Fri 30/7/21	Mon 23/8/21		NA	Fri 30/7/21	Mon 23/8/21		3 days	941,922,879		
944	CH1311-1351: Structure de			-	-												
		CK	30 days	-	30 days	0%	Tue 24/8/21	Tue 28/9/21		NA	Tue 24/8/21	Tue 28/9/21	0 days	-	475,483,736,896		
945	CH1311-1351: Prestressing		21 days		21 days	0%		Wed 10/11/21		NA		Wed 10/11/21		3 days	944FS+14 days,8		
946	CH1311-1351: Utility Trou	gh (0.67m per day per team) x 4 team	30 days	0 days	30 days	0%	Thu 11/11/21	Wed 15/12/21		NA	Fri 26/11/21	Mon 3/1/22	13 days	-	219,880,945		
947	CH1311-1351: Central Med	ian (6m per day per team) x 2 team	15 days	0 days	15 days	0%	Thu 11/11/21	Sat 27/11/21	NA	NA	Wed 5/1/22	Fri 21/1/22	44 days	3 days	945		
948	CH1311-1351: Parapet (28r	n per day per team) x 2 team + 6 day concreting	16 days	0 days	16 days	0%	Thu 23/12/21	Thu 13/1/22	NA	NA	Tue 4/1/22	Fri 21/1/22	7 days	1 day	945,888,890,946		
949	CH1311-1351: Road Furnit	ıre	7 days	0 days	7 days	0%	Fri 14/1/22	Fri 21/1/22	NA	NA	Sat 22/1/22	Sat 29/1/22	7 days	1 day	947,358,948		
950	Part 1 - CH1372 to CH1386		149 days	0 days	149 days	0%	Mon 23/8/21	Tue 22/2/22	NA	NA	Mon 23/8/21	Tue 1/3/22	0 days				
951	Bridge deck between CH1351-	1386	149 days	0 days	149 days	0%	Mon 23/8/21	Tue 22/2/22	NA	NA	Mon 23/8/21	Tue 1/3/22	0 days				
952	CH1351-1386: Deck Falsev	vork erection	22 days	0 days	22 days	0%	Mon 23/8/21	Thu 16/9/21	NA	NA	Mon 23/8/21	Thu 16/9/21	0 days	4 days	941,922,898FS+		
953	CH1351-1386: Structure de	ck	30 days	0 days	30 days	0%	Fri 17/9/21	Mon 25/10/21	NA	NA	Fri 17/9/21	Mon 25/10/21	0 days	5 days	952,736,976		
954	CH1351-1386: Prestressing		14 days	0 days	14 days	0%	Thu 11/11/21	Fri 26/11/21	NA	NA	Thu 11/11/21	Fri 26/11/21	0 days	5 days	953FS+14 days,9		
955	CH1351 - CH1386: Utility	Trough (0.67m per day per team) x 4 team	30 days		30 days	0%	Sat 27/11/21	Tue 4/1/22	NA	NA	Sat 27/11/21	Tue 4/1/22	0 days	3 days	219,954		
956	-	Median (6m per day per team) x 1 team	15 days		15 days	0%	Sat 27/11/21	Tue 14/12/21		NA	Sat 27/11/21	Tue 14/12/21		3 days	954		
957		(28m per day per team) x 1 team + 6 day	20 days		20 days	0%	Wed 5/1/22	Thu 27/1/22		NA	Wed 12/1/22	Mon 7/2/22		4 days	955		
	concreting				-												
958	CH1351-1386 Falsework re		19 days		19 days	0%	Fri 28/1/22	Tue 22/2/22		NA	Tue 8/2/22	Tue 1/3/22		1 day	955,957		
959	CH1351 - CH1386: Road F		8 days	-	8 days	0%	Fri 28/1/22		NA	NA	Mon 14/2/22	Tue 22/2/22	11 days	2 day	956,358,957		
960	Part 1 - CH1386 to CH1394 South		352 days	-	352 days	0%	Fri 3/7/20		NA	NA	Sat 25/7/20	Thu 16/9/21	10 days				ſ
961	Bored Pile (A02-BP2) @ CH1	386 by Rig 1	42 days	0 days	42 days	0%	Fri 3/7/20	Thu 20/8/20	NA	NA	Sat 25/7/20	Fri 11/9/20	19 days	3 days	831FS+12 days		
962	Bored Pile (A02-BP1) @ CH1	386 by Rig 1	63 days	0 days	63 days	0%	Tue 28/7/20	Sat 10/10/20	NA	NA	Wed 19/8/20	Tue 3/11/20	19 days	3 days	202FF,961FF+42		
963	Pile Testing		35 days	0 days	35 days	0%	Mon 12/10/20	Sat 21/11/20	NA	NA	Wed 4/11/20	Mon 14/12/20	19 days	4 days	962		
	1 Draw with Day	Task	Summary			Inactive	Milestone 🔷		Duration-on	ly		Start-only		C	Exte	mal Mile	 estor
itle: Rev.1 as of 22-N	1 Prog with Progress lav-20	Split	Project Sum	mary	1		Summary		Manual Sun	imary Rollup 💼		Finish-only		3	Dead		
		Milestone 🔶	Inactive Tas	1.		Manual 7			Manual Sun			External Task			Criti		



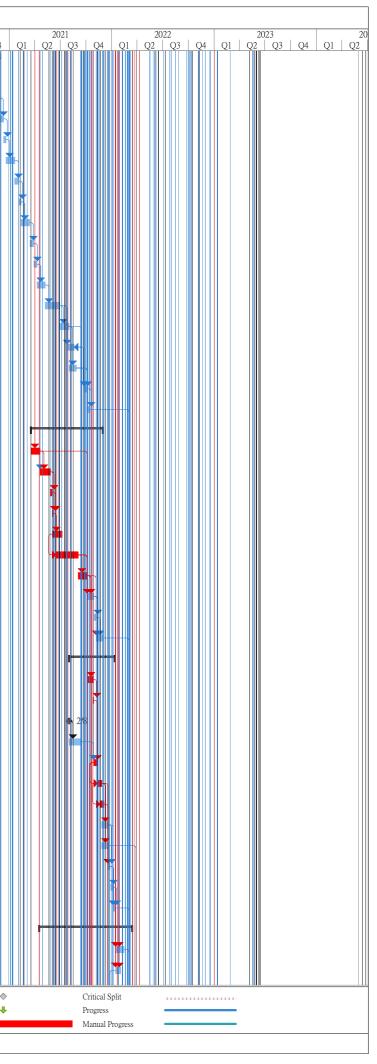
1_	1 37		D :		D · ·	TN	B 1 0		ract No. ED			T . TH	m . 1 .			000
Т	ask Name		Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Finis		Late Finish	Total TI Slack	RA Predecess		2020 2 (
964	Proof-drilling Works		11 days	0 days	11 days	0%	Mon 23/11/20	Fri 4/12/20	NA	NA	Tue 2/2/21	Wed 17/2/21	58 days 2	days 963		
965	South Abutment		166 days	0 days	166 days	0%	Wed 3/2/21	Thu 26/8/21	NA	NA	Thu 18/2/21	Tue 7/9/21	10 days	968SS,96	ŧ	
66	South Abutment ELS- Des	ign and Method Statement Submission	0 days	0 days	0 days	0%	Mon 4/1/21	Mon 4/1/21	NA	NA	Tue 19/1/21	Tue 19/1/21	15 days 1	day		
67	South Abutment ELS - De	sign and Method Statement Comment & Appraoval	30 days	0 days	30 days	0%	Mon 4/1/21	Tue 2/2/21	NA	NA	Tue 19/1/21	Wed 17/2/21	15 days 1	day 966		
58	Drive sheetpile (~900m) Pr	rod. Rate: 10m/d/team	11 days	0 days	11 days	0%	Wed 3/2/21	Thu 18/2/21	NA	NA	Thu 18/2/21	Tue 2/3/21	10 days 2	days 964,967,9	30	
59	Excavation ~1,344m3 & la	teral support. Prod. Rate: 160m3/day/team	11 days	0 days	11 days	0%	Fri 19/2/21	Wed 3/3/21	NA	NA	Mon 22/3/21	Tue 6/4/21	26 days 2	days 968		
70	Blinding layer		1 day	0 days	1 day	0%	Thu 4/3/21	Thu 4/3/21	NA	NA	Wed 7/4/21	Wed 7/4/21	26 days 0	days 969		
1	South Abutment Formwork	c- Design and Method Statement Submission	0 days	0 days	0 days	0%	Mon 21/12/20	Mon 21/12/20	NA	NA	Tue 9/3/21	Tue 9/3/21	78 days 1	day		
2		c - Design and Method Statement Comment &	30 days	0 days	30 days	0%	Mon 21/12/20	Tue 19/1/21	NA	NA	Tue 9/3/21	Wed 7/4/21	78 days 1	day 971		
3	Appraoval Base Slab		36 days	0 days	36 days	0%	Wed 17/3/21	Fri 30/4/21	NA	NA	Thu 8/4/21	Fri 21/5/21	16 days 2	days 970,972,9	86	
4	Wall (3.85m thk). Prod. Ra	ate: 18d/bay/team	39 days	0 days	39 days	0%	Mon 3/5/21	Fri 18/6/21	NA	NA	Sat 22/5/21	Thu 8/7/21	16 days 3	days 973		
5	Wall (0.5m thk)		52 days		52 days	0%	Sat 19/6/21		NA	NA	Fri 9/7/21	Tue 7/9/21	16 days 2			
6	Install bridge bearing		8 days		8 days	0%	Fri 27/8/21		NA	NA	Wed 8/9/21	Thu 16/9/21	10 days 1		22 965	
7		394-1444.7 - Total 8 bays (4 bay/side)	259 days		259 days	0%	Mon 21/9/20	Fri 6/8/21	NA	NA	Sun 15/11/20	Sat 4/12/21	45 days	uay 975,750,0		
8						0%		Mon 21/9/20		NA				dav		
	Submission	S - Temp. Works Design and Method Statement		0 days	0 days		Mon 21/9/20				Sun 15/11/20	Sun 15/11/20	55 days 1			
9	Comment & Approval	S - Temp. Works Design and Method Statement	30 days		30 days	0%	Mon 21/9/20	Tue 20/10/20		NA	Sun 15/11/20	Mon 14/12/20	55 days 1		(2)	
)	Drive sheetpile (~240m) P		26 days		26 days	0%	Mon 23/11/20	Tue 22/12/20		NA	Tue 15/12/20	Sat 16/1/21	19 days 2		33	
		teral support. Prod. Rate: 160m3/day/team	19 days		19 days	0%	Wed 23/12/20		NA	NA	Mon 18/1/21	Mon 8/2/21	19 days 2			
2	Rock Replacement		7 days	0 days	7 days	0%	Sun 17/1/21	Sat 23/1/21	NA	NA	Tue 9/2/21	Mon 15/2/21	23 days 1	day 981		
5	Blinding layer. Prod. Rate:	2bays/day	1 day	0 days	1 day	0%	Mon 25/1/21	Mon 25/1/21	NA	NA	Tue 16/2/21	Tue 16/2/21	16 days 1	day 981,982		
	Sourth Approach - Formwo	orks Design and Method Statement Submission	0 days	0 days	0 days	0%	Tue 1/12/20	Tue 1/12/20	NA	NA	Mon 18/1/21	Mon 18/1/21	48 days 1	day		
5	South Approach Ramp For Appraoval	mworks Design and Method Statement Comment &	30 days	0 days	30 days	0%	Tue 1/12/20	Wed 30/12/20	NA	NA	Mon 18/1/21	Tue 16/2/21	48 days 1	day 984		
5	6 x Base Slab Prod. Rate:	2d/bay/team x 2 teams	40 days	0 days	40 days	0%	Tue 26/1/21	Tue 16/3/21	NA	NA	Wed 17/2/21	Wed 7/4/21	16 days 4	days 983,985,2	14	
7	6 x Wall. Prod. Rate: 12d/b	bay/team x 3 level x 2 teams	78 days	0 days	78 days	0%	Wed 17/3/21	Tue 22/6/21	NA	NA	Mon 28/6/21	Tue 28/9/21	82 days 6	days 986		
3	Backfilling ~4,765.89m3 v +12d shoring removal x 2	vithin approach ramp to formation level (160m3/day) (considered time for SRT)	38 days	0 days	38 days	0%	Wed 23/6/21	Fri 6/8/21	NA	NA	Fri 22/10/21	Sat 4/12/21	100 days 2	days 987		
)	CH1386-1444: South Approac	ch Ramp (50m): Parapet, Central Median & Furniture	43 days	0 days	43 days	0%	Wed 15/12/21	Wed 9/2/22	NA	NA	Wed 15/12/21	Wed 9/2/22	0 days	988		
)		dian and Utilities Trough (5m per day per team) x 1	23 days	0 days	23 days	0%	Wed 15/12/21	Thu 13/1/22	NA	NA	Wed 15/12/21	Thu 13/1/22	0 days 2	days 253,956		
1		m per day per team) x 2 team + 2 team x 6 day	13 days	0 days	13 days	0%	Fri 14/1/22	Fri 28/1/22	NA	NA	Fri 14/1/22	Fri 28/1/22	0 days 2	days 988,253,9	90	
2	CH1386-1444: Road Furni	ture	7 days	0 days	7 days	0%	Sat 29/1/22	Wed 9/2/22	NA	NA	Sat 29/1/22	Wed 9/2/22	0 days 1	day 990,358,9	91	
3	CH1087 - 1444: Bitumen Pavi	ing and Lighting	60 days	0 days	60 days	0%	Thu 30/12/21	Mon 14/3/22	NA	NA	Wed 15/12/21	Tue 1/3/22	-11 days 1	day 813,884,8	92FF,9	
L I	2.6 Utility Laying		1 day?	0 days	1 day?	0%	Thu 16/5/19	Thu 16/5/19	NA	NA	Wed 29/5/24	Wed 29/5/24	1840 d			
5	CH1087-1311 (224m): Utility La	ying (by Others) (Agreed)	63 days	0 days	63 days	0%	Wed 29/12/21	Tue 1/3/22	NA	NA	Wed 29/12/21	Tue 1/3/22	0 days			
6	CLP (132kV)		63 days		63 days	0%	Wed 29/12/21		NA	NA	Wed 29/12/21	Tue 1/3/22	0 days 1	day 899,9558	3+32 d	
7	CLP (11kV)		63 days	-	63 days	0%	Wed 29/12/21		NA	NA	Wed 29/12/21	Tue 1/3/22	0 days 1			
8	HKCG		53 days		53 days	0%	Wed 29/12/21		NA	NA	Sat 8/1/22	Tue 1/3/22	10 days 1			
9	CATV		23 days		23 days	0%	Wed 29/12/21	Thu 20/1/22		NA	Thu 3/2/22	Fri 25/2/22	36 days 1			
			-		-											
00	Towngas telecom		27 days		27 days	0%	Wed 29/12/21	Mon 24/1/22		NA	Thu 3/2/22	Tue 1/3/22	36 days 1			
01	PCCW-HKT	PO()	23 days		23 days	0%	Wed 29/12/21	Thu 20/1/22		NA	Sun 6/2/22	Mon 28/2/22	39 days 1	-		
02	Fresh and Salt Watermains (by		24 days		24 days	0%	Wed 29/12/21			NA	Sun 6/2/22	Tue 1/3/22	39 days 1	day 1001SS		
)3	CH1311-1396 (85m): Utility Lay	ing (by Others) (Agreed)	84 days		84 days	0%	Thu 7/10/21	Wed 29/12/21		NA	Fri 4/2/22	Tue 1/3/22	62 days			
)4	CLP (11kV)		26 days	0 days	26 days	0%	Wed 5/1/22	Sun 30/1/22	NA	NA	Fri 4/2/22	Tue 1/3/22	30 days 1			
05	PCCW-HKT		18 days	0 days	18 days	0%	Wed 5/1/22	Sat 22/1/22	NA	NA	Sat 12/2/22	Tue 1/3/22	38 days 1	day 1004SS		
06	Sat and Fresh Watermain (by	POC)	18 days	0 days	18 days	0%	Wed 5/1/22	Sat 22/1/22	NA	NA	Sat 12/2/22	Tue 1/3/22	38 days 1	day 1005SS		
07	Underpass and Depressed Road		619 days	142.15 days	476.85 days	0%	Tue 3/9/19	Mon 4/10/21	Tue 3/9/19	NA	Tue 3/9/19	Tue 1/3/22	120 days			_
	11 Drog with Drog with	Task	Summary			Inactive N	Milestone 🔷		Duration-o	nly		Start-only	C		External N	Miles
	v.11 Prog with Progress -May-20	Split	Project Sum			Inactive S	Summary		1 Manual Su	mmary Rollup		Finish-only	C		Deadline	
J. 22		Milestone 🔶	Inactive Tasl	k		Manual T	ask		Manual Su	mmary	I	External Task	s		Critical	



Name	Duration	Actual	Remaining	Physical %	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total	TRA	Predecessors	202	20
		Duration	Duration	Complete							Slack				
· · · · ·			-												
		-										-			
Rd		-											1000 1010 1011		
Drive Sheet Pile (380m, 15,000m penetration depth) Prod. Rate by 2 teams (around 125m penetration depth per day per team)	39 days	39 days	0 days	100%	Fri 22/11/19	Thu 9/1/20	Fri 22/11/19	Thu 9/1/20	Fri 22/11/19	Thu 9/1/20	0 days	0.5 days	1009,1010,1011		
Pumping Test	120 days	75 days	45 days	0%	Thu 20/2/20	Fri 17/7/20	Thu 20/2/20	NA	Thu 20/2/20	Sat 18/7/20	1 day	0.5 days	1012		
CH1560 - CH1720 North Depress Road	449 days	98.66 days	350.34 days	0%	Mon 20/1/20	Tue 27/7/21	Mon 20/1/20	NA	Mon 20/1/20	Tue 1/3/22	177 days	;		++-	╇╼┥
Excavation with Shoring Installation - Prod Rate: 270m3/d/team.	145 days	98 days	47 days	0%	Mon 20/1/20	Sat 18/7/20	Mon 20/1/20	NA	Mon 20/1/20	Sat 18/7/20			1012		
(~36,611m3). 1 team CNCE No. 73 - April 2020 Inclement Weather			8 days	0%	Mon 20/7/20	Tue 28/7/20	NA	NA	Tue 7/7/20	Wed 15/7/20	-11 days		1015.73	-	
				0%	Wed 29/7/20	Fri 31/7/20	NA		Thu 16/7/20	Sat 18/7/20					₽
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Slab															
Backfilling and 3rd Level Shoring Removal	18 days	0 days	18 days	0%	Thu 29/10/20	Wed 18/11/20	NA	NA		Thu 5/11/20	-11 days		1022		
Structure Works Below 2nd & 3rd Levels Shoring	23 days	0 days	23 days	0%	Thu 19/11/20	Tue 15/12/20	NA	NA	Fri 6/11/20	Wed 2/12/20	-11 days		1023		
Backfilling and 2nd Level Shoring Removal	18 days	0 days	18 days	0%	Wed 16/12/20	Fri 8/1/21	NA	NA	Thu 3/12/20	Wed 23/12/20	-11 days		1024		
Remaining Wall Construction	30 days	0 days	30 days	0%	Sat 9/1/21	Tue 16/2/21	NA	NA	Thu 24/12/20	Sat 30/1/21	-11 days		1025		
Backfill & extract sheet pile (CH1560 to CH1720)	26 days	0 days	26 days	0%	Wed 17/2/21	Thu 18/3/21	NA	NA	Mon 1/2/21	Fri 5/3/21	-11 days	1 day	1026		
Emergency walkway & median barrier installation	20 days	0 days	20 days	0%	Tue 1/6/21	Thu 24/6/21	NA	NA	Mon 3/1/22	Tue 25/1/22	177 days	2 days	1027		
Parapet installation	27 days	0 days	27 days	0%	Fri 25/6/21	Tue 27/7/21	NA	NA	Wed 26/1/22	Tue 1/3/22	177 days	3 days	1028		
CH1720 - CH1850 (130m long) (2 x teams)	477 days	0 days	477 days	0%	Mon 15/6/20	Mon 4/10/21	NA	NA	Mon 15/6/20	Mon 4/10/21	0 days			r-	_
Drive sheet pile (approx. 17000m penetration depth, 380m/day)	46 days	0 days	46 days	0%	Mon 15/6/20	Sat 8/8/20	NA	NA	Mon 15/6/20	Sat 8/8/20	0 days	2 day			_
Pumping Test	22 days	0 days	22 days	0%	Mon 10/8/20	Thu 3/9/20	NA	NA	Mon 10/8/20	Thu 3/9/20	0 days	1 days	1031,1045		
CH1720 - CH1850 (130m long) (2 x teams) Top Portion: Excavation with	42 days	0 days	42 days	0%	Fri 4/9/20	Sat 24/10/20	NA	NA	Fri 4/9/20	Sat 24/10/20	0 days	2 day	1032		
Shoring Installation = 23,000 cu.m. (320m3/d/team x 2)															
CH1720 - CH1850 (130m long) (2 x teams) Bottom Portion: Excavation with Shoring Installation = 23,876 cu.m. (250m3/d/team x 2)	52 days	0 days	52 days	0%	Tue 27/10/20	Mon 28/12/20	NA	NA	Tue 27/10/20	Mon 28/12/20	0 days	1 day	1033		
Rock fill - Prod. Rate: (3,469m3) (160m3/d/team. 2 team)	6 days	0 days	6 days	0%	Tue 29/12/20	Tue 5/1/21	NA	NA	Tue 29/12/20	Tue 5/1/21	0 days	1 dav	1033,1034		
		-									-	-			
		-													
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· · · · · · · · · · · · · · · · · · ·		-													
		-													
·····		-										1 day	1038		
		-									-				
Underground pump house structure	45 days	0 days	45 days	0%	Wed 6/1/21			NA		Tue 2/3/21	0 days	3 day	714,1035,262,28		
Underpass & South Depressed Road CH1850-1950 - (100m long) 8 bays x 13.5m lon	g 120 days	65.36 days	54.64 days	0%	Wed 26/2/20	Thu 23/7/20	Wed 26/2/20	NA	Wed 26/2/20	Sat 8/8/20	14 days			+	1
Drive sheet pile (12,530m embedded length sheetpile) Prod. Rate 380m/team/day	32 days	32 days	0 days	100%	Wed 26/2/20	Mon 6/4/20	Wed 26/2/20	Mon 6/4/20	Wed 26/2/20	Mon 6/4/20	0 days	5 days	h		
Pumping Test	80 days	29 days	51 days	36%	Fri 17/4/20	Thu 23/7/20	Fri 17/4/20	NA	Fri 17/4/20	Sat 8/8/20	14 days	2 days	1044	-	┛┛
Underpass & South Depress Road (CH1850 to CH1950)	539 days	27.64 days	511.36 days	0%	Thu 23/4/20	Wed 13/10/21	Thu 23/4/20	NA	Thu 23/4/20	Tue 1/3/22	139 days	5		++	
Excavation with Shoring Installation (Upper Portion) - Prod. Rate: 270m3/d/team.	1 80 days	24 days	56 days	23%	Thu 23/4/20	Thu 30/7/20	Thu 23/4/20	NA	Thu 23/4/20	Fri 4/9/20	31 days	5 days	1045SS+6 days 🕨	++	∎┐┨
Excavation with Shoring Installation (Lower Portion) - Prod. Rate: 270m3/d/team	1 65 days	0 days	65 days	0%	Fri 31/7/20	Fri 16/10/20	NA	NA	Sat 5/9/20	Mon 23/11/20	31 days	5 day	1047,1045FF+12		+
team 16,000m3) Rock fill - Prod. Rate: 160m3/d/team (1,745m3)	7 days	0 days	7 days	0%	Sat 17/10/20	Sat 24/10/20	NA	NA	Tue 24/11/20	Tue 1/12/20	31 days	1 day	days 1047,1048		
Blinding	1 day	0 days	1 day	0%	Tue 27/10/20	Tue 27/10/20	NA	NA	Wed 2/12/20	Wed 2/12/20	31 days	0.5 days	1049		
		-										-			
1 Prog with Progress	Summary			Inactive N	Milestone 🔷		Duration-on	ly		Start-only		C	Extern	al Miles	stone
	Project Sum	marv	1	Inactive S	Summary		Manual Surr	umary Rollup 🗖		Finish-only		1	Deadli	ле	
Split Split	i toject buili				-								Doudin		
	North Depressed Rd (CH1560-1720) Ground Monitoring Works Mobilization Complete the Diversition of Existing Overhang Cable along the North Depresse Rd Drive Sheet Pile (380m, 15000m presentation depth) Prod. Rate by 2 teams (around 125m penetration depth per day per team) Pumping Test CH1560 - CH1720 North Depress Road Excavation with Shoring Installation - Prod Rate: 270m3/d/team. (~36.61 m3), 1 team CKCK No. 73 - April 2020 Inclement Weather May 2020 - Inclement Weather Rock Fill Replacement (Final Level) 6 Bay Base Slabs + 3 Levels Wall Both Sides Base Slab and Wall Below 4th Level Shoring Base Slab and Yall Evel Shoring Removal Wall Construction (between 3rd and 4th levels shoring) and Remaining Base Slab Backfilling and 3rd Level Shoring Removal Structure Works Below 2nd & 3rd Levels Shoring Backfill & extract sheet pile (CH1560 to CH1720) Emergency walkway & median barrier installation Parapet installation CH1720 - CH1850 (130m long) (2 x teams) Drive sheet pile (approx. 17000m pneetration depth, 380m/day) Punping Test CH1720 - CH1850 (130m long) (2 x teams) Top Portion: Excavation with Shoring Installation = 23,000 cu.m. (320m3/d/team x 2) CK11720 - CH1850 (130m long) (2 x t	North Depressed Rd (CH1560-1720) 562 days Ground Monitoring Works 17 days Mobilization 7 days Complete the Divertion of Existing Overhang Cable along the North Depressed Rd 1 day Rd Drive Sheet Pile (380m, 15,000m penetration depth) Prod. Rate by 2 teams 39 days Pumping Test 120 days CH1560 - CH1720 North Depress Road 449 days Exc-56,011m3). 1 team 45 days CNCE INS, 73, April 2020 Inclement Weather 8 days May 2020 - Inclement Weather 3 days Rock Fill Replacement (Final Level) 6 days Base Slab and Wall Below 4th Level Shoring 25 days Base Slab and Wall Below 4th Level Shoring 25 days Basefilling and 3rd Level Shoring Removal 18 days Wall Construction (between 3rd and 4th levels shoring) and Remaining Base 24 days Structure Works Below 2nd & 3rd Levels Shoring 20 days Parapet installation 20 days Purapet installation 20 days Purapet installation 20 days CH1720 - CH1850 (130m long) (2 x teams) 47 days CH1720 - CH1850 (130m long) (2 x teams) Top Portion: Excavation with Shoring Installation = 23,350 cum, (20m3/dheam x 2) 22 days CH1720 - CH1850 (130m long) (2 x teams) Top Portion: Excavation with Shoring Installation = 23,350 cum, (30m3/dheam x 2)	North Depresed Rd (CH1560-1720)S5d days 21.124 Says 11.42 daysGround Monitoring Works7 daysMobilization7 daysComplete the Diveration of Existing Overhang Cable along the North Depressed Id for out 2100 mp perturbino depth prod. Rate by 2 teams30 daysPumping Test120 days75 daysCH1560 - CH1720 North Depress Road449 days86.66 daysExcervation with Shoring Installation - Prod Rate: 270m3/d/neam.455 daysCNUE No. 75 - April 2020 Inciencent Weather8 days0 daysCNUE No. 75 - April 2020 Inciencent Weather8 days0 daysBase Slab and Wall Below 4th Level Shoring18 days0 daysBase Slab and Wall Below 4th Level Shoring18 days0 daysBase Slab and Wall Below 4th Level Shoring24 days0 daysSharue Works Below 2nd & 3rd Levels Shoring and Remaining Base24 days0 daysSharue Works Below 2nd & 3rd Levels Shoring23 days0 daysBaseKilling and 2nd Level Shoring Removal18 days0 daysBaseKilling and 2nd Level Shoring Removal20 days0 daysDrive short pile (approx. 17000m penetration depth, 380m/day)46 days0 daysDrive short pile (approx. 17000m penetration depth, 380m/day)46 days0 daysDrive short pile (approx. 17000m penetration depth, 380m/day)46 days	North Depressed Rd (CH1560-1720)DurationDurationGround Monitoring Works17 days7 days7 days8.058 daysMobilization7 days7 days0 days0 daysComplete the Divention of Existing Overhang Cable along the North Depressed1 day1 day0 daysDering Test120 days75 days45 days45 daysCH1500 - CH1720 North Depress Road449 day96 days8 days8 daysCNET Ros 7A - Agrill 2000 Indiciment Weather8 days9 days8 daysCNET Ros 7A - Agrill 2000 Indiciment Weather6 days0 days6 daysCNET Ros 7A - Agrill 2000 Indiciment Weather6 days0 days6 daysCNET Ros 7A - Agrill 2000 Indiciment Weather6 days0 days6 daysCNET Ros 7A - Agrill 2000 Indiciment Weather6 days0 days6 daysBack Fill Replacement (Final Level)6 days0 days6 daysBack Killing and 3 da Level Shoring Removal18 days0 days18 daysMulti Construction Detween 3 dati 44 th Ievel Shoring Name20 days0 days18 daysStarburg Ward Level Shoring Removal18 days0 days2 days2 daysBackfilling and 3 da Level Shoring Removal20 days0 days2 daysBackfilling and 2 da Level Shoring Removal20 days0 days2 daysBackfilling and 2 da Level Shoring Removal20 days0 days2 daysBackfilling and 2 da Level Shoring Removal20 days0 days2 daysBack	North Depresent R4 (CH1560-1720) Sold Agy Plantane Duration Duration Complex Ground Meriatoring Works 17 days 7 days 0 days 00% Moth Depresent R4 (CH1560-1720) 7 days 7 days 0 days 00% Complete the Diveration of Existing Orenhang Cable along the North Depresent 100 1 day 0 days 0 d	Details Details <t< td=""><td>Inclusions Data into Data into Data into Data into Data into Display Model Decrement Memberny Work 17 days 1 days 0.005 Tata MVV Tata MVVV Tata MVVV Tata MVVV Tata MVVV Tata MVVVV Tata MVVVV Tata MVVVV Tata MVVVV Tata MVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV</td><td>Detail Detail <thdetail< th=""> <thdetail< th=""> <thdetail< td="" th<=""><td>Database Database Database District District</td><td>Name Dimension Distance Cancer Early 200 Cancer Distance <thdistance< th=""> <thdistance< th=""> <thdis< td=""><td>North Decense M (E):::00 (Za) North Decense M (E):::00 (Za) North Decense M (E)::00 (Za) North Decense M (Za) North Decense M</td><td>Name Description Description First Proceed The 2000 Name Name</td><td>North Random North Random<</td><td>Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<></td><td>Decisity Decisity Partial No. No. No.</td></thdis<></thdistance<></thdistance<></td></thdetail<></thdetail<></thdetail<></td></t<>	Inclusions Data into Data into Data into Data into Data into Display Model Decrement Memberny Work 17 days 1 days 0.005 Tata MVV Tata MVVV Tata MVVV Tata MVVV Tata MVVV Tata MVVVV Tata MVVVV Tata MVVVV Tata MVVVV Tata MVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV	Detail Detail <thdetail< th=""> <thdetail< th=""> <thdetail< td="" th<=""><td>Database Database Database District District</td><td>Name Dimension Distance Cancer Early 200 Cancer Distance <thdistance< th=""> <thdistance< th=""> <thdis< td=""><td>North Decense M (E):::00 (Za) North Decense M (E):::00 (Za) North Decense M (E)::00 (Za) North Decense M (Za) North Decense M</td><td>Name Description Description First Proceed The 2000 Name Name</td><td>North Random North Random<</td><td>Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<></td><td>Decisity Decisity Partial No. No. No.</td></thdis<></thdistance<></thdistance<></td></thdetail<></thdetail<></thdetail<>	Database Database Database District District	Name Dimension Distance Cancer Early 200 Cancer Distance Distance <thdistance< th=""> <thdistance< th=""> <thdis< td=""><td>North Decense M (E):::00 (Za) North Decense M (E):::00 (Za) North Decense M (E)::00 (Za) North Decense M (Za) North Decense M</td><td>Name Description Description First Proceed The 2000 Name Name</td><td>North Random North Random<</td><td>Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<></td><td>Decisity Decisity Partial No. No. No.</td></thdis<></thdistance<></thdistance<>	North Decense M (E):::00 (Za) North Decense M (E):::00 (Za) North Decense M (E)::00 (Za) North Decense M	Name Description Description First Proceed The 2000 Name Name	North Random North Random<	Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	Decisity Decisity Partial No. No. No.

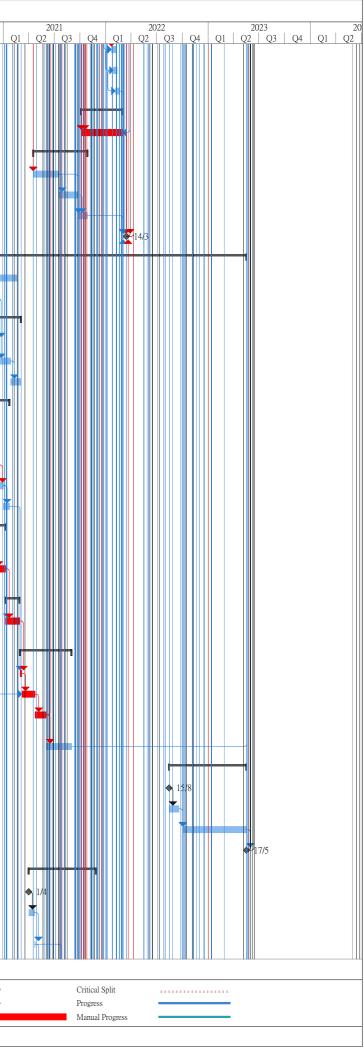


Ta	ask Name	Duration	Actual	Remaining	Physical %	Early Start	Early Finish	Actual Stor	rt Actual Finis	sh Late Start	Late Finish	Total TRA	Predecessors	20
			Duration	Duration	Complete							Slack	1 10000050015	Q2
051	Underpass Formworks Design and Method Statement Submission		0 days	0 days	0%	Mon 14/9/20	Mon 14/9/20		NA	Tue 3/11/20	Tue 3/11/20	50 days 1 day	1051	
052	Underpass Formworks Design and Method Statement Comment & Appraoval		-	30 days	0%	Mon 14/9/20	Tue 13/10/20		NA	Tue 3/11/20	Wed 2/12/20	50 days 1 day	1051	
1053	Casting base slab (12d/bay/team x 3) (6 bays)	26 days		26 days	0%	Wed 28/10/20			NA	Thu 3/12/20	Tue 5/1/21	31 days 2 day	1050,1052,262	
1054	Waterproofing & Bacfilling before S3 Shoring Removal	12 days	0 days	12 days	0%	Fri 27/11/20	Thu 10/12/20	NA	NA	Wed 6/1/21	Tue 19/1/21	31 days 1 day	1053	
1055	S3 Shoring ELS Removal + North/South End Re-propping	7 days	0 days	7 days	0%	Fri 11/12/20	Fri 18/12/20	NA	NA	Wed 20/1/21	Wed 27/1/21	31 days 1 day	1054	
1056	Wall Construction up to soffit of S2 Shoring (12d/bay/team x 3) (6 bays)	24 days	0 days	24 days	0%	Sat 19/12/20	Tue 19/1/21	NA	NA	Thu 28/1/21	Sat 27/2/21	31 days 2 day	1055	
1057	Waterproofing & Bacfilling before S2 Shoring Removal	12 days	0 days	12 days	0%	Wed 20/1/21	Tue 2/2/21	NA	NA	Mon 1/3/21	Sat 13/3/21	31 days 1 day	1056	
1058	S2 Shoring ELS Removal + North/South End Re-propping	7 days	0 days	7 days	0%	Wed 3/2/21	Wed 10/2/21	NA	NA	Mon 15/3/21	Mon 22/3/21	31 days 1 day	1057	
1059	Wall Construction up to soffit of S1 Shoring (12d/bay/team x 3) (6 bays)	24 days	0 days	24 days	0%	Thu 11/2/21	Sat 13/3/21	NA	NA	Tue 23/3/21	Thu 22/4/21	31 days 2 day	1058	
1060	Waterproofing & Bacfilling before S1 Shoring Removal	12 days	0 days	12 days	0%	Mon 15/3/21	Sat 27/3/21	NA	NA	Fri 23/4/21	Fri 7/5/21	31 days 1 day	1059	
1061	S1 Shoring ELS Removal + North/South End Re-propping	7 days	0 days	7 days	0%	Mon 29/3/21	Thu 8/4/21	NA	NA	Sat 8/5/21	Sat 15/5/21	31 days 1 day	1060	
1062	Scaffold erection for roof slab	24 days	0 days	24 days	0%	Fri 9/4/21	Fri 7/5/21	NA	NA	Mon 17/5/21	Tue 15/6/21	31 days 2 day	1061	
1063	Roof slab construction (18d/bay/team x 3) (6 bays)	42 days	0 days	42 days	0%	Sat 8/5/21	Mon 28/6/21	NA	NA	Wed 16/6/21	Wed 4/8/21	31 days 4 days	1062	
1064	Waterproofing & Backfilling upto tunnel top	28 days	0 days	28 days	0%	Tue 29/6/21	Sat 31/7/21	NA	NA	Thu 5/8/21	Mon 6/9/21	31 days 2 day	1063	
1065	Scaffold removal after 28 days from casting	22 days	0 days	22 days	0%	Mon 26/7/21	Thu 19/8/21	NA	NA	Thu 13/1/22	Thu 10/2/22	141 days 1 day	1063FS+22 days	
1066	Sheetpile extraction (Ch1851-CH1950)	22 days	0 days	22 days	0%	Mon 2/8/21	Thu 26/8/21	NA	NA	Tue 7/9/21	Mon 4/10/21	31 days 1 day	1064	
1067	Emergency walkway & median barrier installation	9 days		9 days	0%	Fri 24/9/21	Tue 5/10/21		NA	Fri 11/2/22	Mon 21/2/22	112 days 1 day	323,1066,1040,1	
1068	Parapet installation		0 days	7 days	0%	Wed 6/10/21	Wed 13/10/21		NA	Tue 22/2/22	Tue 1/3/22	112 days 1 day	1067	
1069	CH1950 - CH2020 (70m long) (2 x teams) 4 bays x 17.5m long - Average 3 laye	-	-	209 days	0%	Fri 19/3/21	Mon 29/11/21		NA	Sat 6/3/21	Tue 1/3/22	-11 days	1007	
1070	Shoring Drive sheet pile (approx. 8,800m embedded length sheetpile), 380m/team/day			24 days	0%	Fri 19/3/21	Mon 19/4/21		NA	Sat 6/3/21	Tue 6/4/21	-11 days 1 day	1027	
1070	Excavation with Shoring Installation - Prod. Rate: 2 teams x 250m3/d/team.			30 days	0%	Tue 20/4/21	Wed 26/5/21		NA	Wed 7/4/21	Wed 12/5/21	-11 days 1 day	1027	
	(14,500m3)	30 days											· ·	
1072	Rock Fill Replacement	-	0 days	6 days	0%	Thu 27/5/21		NA	NA	Thu 13/5/21	Thu 20/5/21	-11 days 0.5 days	1071	
1073	Blinding		0 days	1 day	0%	Thu 3/6/21		NA	NA	Fri 21/5/21	Fri 21/5/21	-11 days 0.5 days	1071,1072	
1074	Base Slab - 4 bays. Prod. Rate: 12d/team/bay include pipe laying. 2 team	26 days	0 days	26 days	0%	Fri 4/6/21	Tue 6/7/21	NA	NA	Sat 22/5/21	Tue 22/6/21	-11 days 2 days	1073	
1075	Wall - 4 bays. Prod. Rate: 3 level of shoring 12d/bay/level/team. 2 teams	67 days	0 days	67 days	0%	Wed 16/6/21	Thu 2/9/21	NA	NA	Wed 2/6/21	Fri 20/8/21	-11 days 6 days	1074SS+9 days	
1076	Backfill & extract sheet pile (CH1950 to CH2020)	25 days	0 days	25 days	0%	Fri 3/9/21	Mon 4/10/21	NA	NA	Sat 21/8/21	Sat 18/9/21	-11 days 2 days	1075	
1077	CH1950 to CH2020: Emergency walkway & median barrier installation	20 days	0 days	20 days	0%	Tue 5/10/21	Thu 28/10/21	NA	NA	Mon 3/1/22	Tue 25/1/22	73 days 2 days	1075,1076	
1078	CH1950 to CH2020: Pavement work	7 days	0 days	7 days	0%	Fri 29/10/21	Fri 5/11/21	NA	NA	Wed 26/1/22	Sat 5/2/22	73 days 1 day	1077	
1079	CH1950 to CH2020: Parapet installation	20 days	0 days	20 days	0%	Sat 6/11/21	Mon 29/11/21	NA	NA	Mon 7/2/22	Tue 1/3/22	73 days 2 day	1076,1077,1078	
1080	South Depressed Road CH2020-2050 (40m long) (2 x teams) 5 bays x 13.5m lon Average 2 layers of shoring	g - 134 days	0 days	134 days	0%	Mon 2/8/21	Tue 11/1/22	NA	NA	Sun 5/9/21	Tue 1/3/22	30 days		
1081	Open Excavation	17 days	0 days	17 days	0%	Tue 5/10/21	Mon 25/10/21	NA	NA	Mon 20/9/21	Mon 11/10/21	-11 days 3 days	1076	
1082	Blinding	2 days	0 days	2 days	0%	Tue 26/10/21	Wed 27/10/21	NA	NA	Tue 12/10/21	Wed 13/10/21	-11 days 0 days	1081	
1083	South Depress Road - Formworks Design and Method Statement Submission	0 days	0 days	0 days	0%	Mon 2/8/21	Mon 2/8/21	NA	NA	Sun 5/9/21	Sun 5/9/21	34 days 1 day		
1084	South Depress Road - Formworks Design and Method Statement Comment &	40 days	0 days	40 days	0%	Mon 2/8/21	Fri 10/9/21	NA	NA	Sun 5/9/21	Thu 14/10/21	34 days 1 day	1083	
1085	Appraoval Base Slab - 3 bays. Prod. Rate: 12d/team/bay include pipe laying. 2 teams	12 days	0 days	12 days	0%	Thu 28/10/21	Wed 10/11/21	NA	NA	Fri 15/10/21	Thu 28/10/21	-11 days 2 day	1082,1084,314	
1086	Wall - 3 bays. Prod. Rate: 2 level of shoring 12d/bay/level/team. 2 teams	12 days	0 days	12 days	0%	Fri 12/11/21	Thu 25/11/21	NA	NA	Sat 30/10/21	Fri 12/11/21	-11 days 0.5day	1085SS+13	
1087	Wall - 3 bays. Prod. Rate: 2 level of shoring 12d/bay/level/team. 2 teams	12 days		12 days	0%	Sat 20/11/21		NA	NA	Mon 8/11/21	Sat 20/11/21	-11 days 0.5day	days 1086SS+7 days	
1088	Backfill & extract sheet pile	19 days		19 days	0%	Fri 26/11/21	Fri 17/12/21		NA	Fri 14/1/22	Tue 8/2/22	39 days 1 day	1086	
1089	Curing and Formwork Ramoval	19 days		19 days	0%	Fri 26/11/21	Fri 17/12/21		NA	Thu 30/12/21	Fri 21/1/22	27 days 1 day	1086	
1089	Emergency walkway & median barrier installation		0 days	6 days	0%	Sat 18/12/21	Fri 24/12/21		NA	Wed 9/2/22	Tue 15/2/22	39 days 2 days	1086,1088,323	
				-										
1091	Pavement work	-	0 days	6 days	0%	Tue 28/12/21		NA	NA	Wed 16/2/22	Tue 22/2/22	39 days 1 day	1090	
1092	Parapet installation		0 days	6 days	0%	Wed 5/1/22	Tue 11/1/22		NA	Wed 23/2/22	Tue 1/3/22	39 days 1 day	1090,1088,1091	
1093	5.0 CH1386-1950 (564m) : Utlity Laying Team 2 (by Others)	332 days		332 days	0%	Sat 17/4/21	Mon 14/3/22		NA	Thu 19/8/21	Tue 1/3/22	-13 days		
1094	CLP (132kV)	30 days	0 days	30 days	0%	Fri 14/1/22	Sat 12/2/22	NA	NA	Mon 31/1/22	Tue 1/3/22	17 days 1 day	946,990,1027	
1095	HKCG	18 days	0 days	18 days	0%	Fri 14/1/22	Mon 31/1/22	NA	NA	Tue 25/1/22	Fri 11/2/22	11 days 1 day	946,990,1027	
itle: Por	7.11 Prog with Progress	Summary			Inactive 1	Vilestone 🔷		Duration	1-only		Start-only	C	Exte	rnal Mil
	-May-20 Split			1	Inactive S				Summary Rollup	•	Finish-only	3	Dead	
	Milestone	Inactive Task	k		Manual T	ask		Manual	Summary		External Tas	ks	Criti	cal

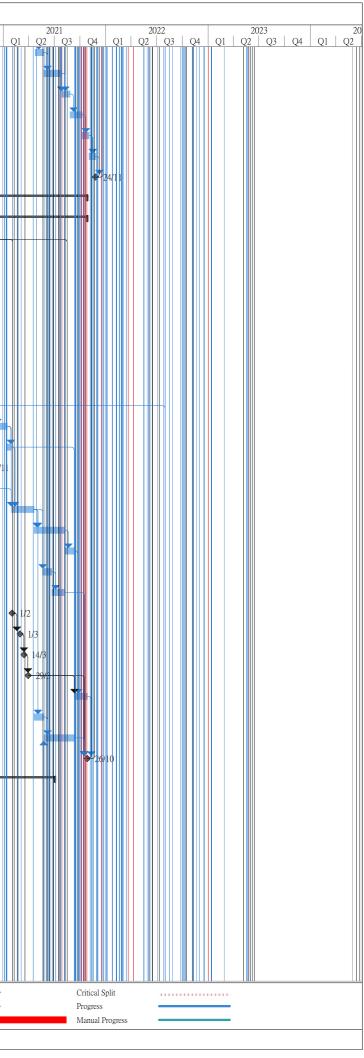


096 097 098 099	sk Name HGC CATV	Duration 15 days	Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Star	t Actual Fini	an Law Start	Late Finish	Total Slack	TRA	Predecessors	202 Q2	
97 98		15 days	0 days													
98	CATV			15 days	0%	Fri 21/1/22	Fri 4/2/22	NA	NA	Tue 1/2/22	Tue 15/2/22	11 days		1095SS+7 days,		
		13 days	0 days	13 days	0%	Fri 28/1/22	Wed 9/2/22	NA	NA	Tue 8/2/22	Sun 20/2/22	11 days	1 day	1096SS+7 days		
199	Towngas telecom	15 days	0 days	15 days	0%	Fri 4/2/22	Fri 18/2/22	NA	NA	Tue 15/2/22	Tue 1/3/22	11 days	1 day	1097SS+7 days		
	North & South Depress Raod and Underpass: Finishing and E&M Works	120 days	0 days	120 days	0%	Tue 5/10/21	Tue 1/3/22	NA	NA	Tue 5/10/21	Tue 1/3/22	0 days				
00	Finishing & Fitting Out Work, and E&M Works Installation	120 days	0 days	120 days	0%	Tue 5/10/21	Tue 1/3/22	NA	NA	Tue 5/10/21	Tue 1/3/22	0 days	8 days	306,271,323,108		
101	Pump Room Next to Underpass: Finishing and E&M Works	158 days	0 days	158 days	0%	Sat 17/4/21	Tue 26/10/21	NA	NA	Thu 19/8/21	Tue 1/3/22	102 days				
102	Finishing Works and E&M installation	73 days	0 days	73 days	0%	Sat 17/4/21	Thu 15/7/21	NA	NA	Thu 19/8/21	Mon 15/11/21	102 days	3 days	1042FS+36 days		
103	Pump Installation	60 days	0 days	60 days	0%	Fri 16/7/21	Fri 24/9/21	NA	NA	Tue 16/11/21	Thu 27/1/22	102 days	2 days	1102		
104	Testing and Commissioning	25 days	0 days	25 days	0%	Sat 25/9/21	Tue 26/10/21	NA	NA	Fri 28/1/22	Tue 1/3/22	102 days	1 days	1102,1103		
105	Planned Completion for Section 1	0 days	0 days	0 days	0%	Mon 14/3/22	Mon 14/3/22	NA	NA	Tue 1/3/22	Tue 1/3/22	-13 days		1408,1414,1068,		
106	Sections 2,4 and 8	824 days	0 days	824 days	0%	Mon 10/8/20	Wed 17/5/23	NA	NA	Mon 17/8/20	Wed 29/5/24	6 days				
107	Offsite 14 units of precast box culvert with outfall fabrication	100 days	0 days	100 days	0%	Mon 19/10/20	Fri 19/2/21	NA	NA	Thu 3/12/20	Thu 8/4/21	38 days	30 days	406,414		
108	MDN application	45 days	0 days	45 days	0%	Mon 26/10/20	Wed 9/12/20	NA	NA	Sun 21/1/24	Tue 5/3/24	1182 d	1 days			
109		67 days		67 days	0%	Thu 10/12/20		NA	NA	Wed 6/3/24	Wed 29/5/24	962 days				
110	Installation of Silt Curtain with Concrete Sinkers		0 days	6 days	0%	Thu 10/12/20	Wed 16/12/20		NA	Thu 23/5/24	Wed 29/5/24	1023 d		1108		
110	Demolition of Existing Seawall	37 days	-	37 days	0%	Thu 10/12/20	Mon 25/1/21		NA	Wed 6/3/24	Mon 22/4/24	962 days		1108		
	-		-													
112	Grade 200 rock filling and placing levelling stone	30 days		30 days	0%	Tue 26/1/21		NA	NA	Tue 23/4/24	Wed 29/5/24	962 days	1 uay	1111		
113	CH86 to CH70 ELS Works	136 days		136 days	0%	Mon 10/8/20	Thu 21/1/21		NA	Mon 17/8/20	Sat 27/2/21	6 days				
114	Temporary Works Design Preparation	25 days		25 days	0%	Mon 10/8/20		NA	NA	Mon 17/8/20	Mon 14/9/20		1 days			
115	Comment by PM	25 days	0 days	25 days	0%	Tue 8/9/20	Thu 8/10/20	NA	NA	Tue 15/9/20	Thu 15/10/20	6 days	1 days	1114		
116	Sheetpiling Installation with Grouting & Pumping Test (56m long on plan)	50 days	0 days	50 days	0%	Fri 16/10/20	Mon 14/12/20) NA	NA	Fri 16/10/20	Mon 14/12/20	0 days	1 day	1420,1423,1115		
117	Excavation with Shoring Installation (1350 cu.m., 150 cu.m./d)	12 days	0 days	12 days	0%	Tue 15/12/20	Wed 30/12/20	NA	NA	Tue 22/12/20	Thu 7/1/21	6 days	3 day	1116		
118	Preparation of formation and laying of blinding layer	18 days	0 days	18 days	0%	Thu 31/12/20	Thu 21/1/21	NA	NA	Thu 4/2/21	Sat 27/2/21	29 days	0.5 day	1117		
119	CH70 to CH30 ELS Works	43 days	0 days	43 days	0%	Mon 16/11/20	Thu 7/1/21	NA	NA	Mon 16/11/20	Thu 7/1/21	0 days				
120	Sheetpiling Installation (80m on plan)	14 days	0 days	14 days	0%	Mon 16/11/20	Tue 1/12/20	NA	NA	Mon 16/11/20	Tue 1/12/20	0 days	0.5 day	1116SS+25 days		
121	Excavation with Shoring Installation (4500 cu.m., 160 cu.m./d x 1 team) and Preparation of Formation and Laying of Blinding Layer	29 days	0 days	29 days	0%	Wed 2/12/20	Thu 7/1/21	NA	NA	Wed 2/12/20	Thu 7/1/21	0 days	1 day	1120		
100		41.1	0.1	(1.)	0.01	E : 0/1/01	0		1.1	E : 0/1/01	0	0.1	1.1			
122	DCS Seawater Intake (Insitu Section Bay 15)	41 days		41 days	0%	Fri 8/1/21		NA	NA	Fri 8/1/21	Sat 27/2/21		1 days			
123	Construction of Cast in-situ Box Culvert with feeder pipe installation with Connection to Extisting Box Culvert(Bay 15, approx. 12m long)	41 days	0 days	41 days	0%	Fri 8/1/21	Sat 27/2/21	NA	NA	Fri 8/1/21	Sat 27/2/21	0 days	1 day	1117,1121		
124	Precast Units Installation	151 days	0 days	151 days	0%	Mon 1/3/21	Tue 31/8/21	NA	NA	Mon 1/3/21	Tue 30/5/23	0 days				
125	Preparation for Connecting Precast Units and Cast In-situ Bay 15	6 days	0 days	6 days	0%	Mon 1/3/21	Sat 6/3/21	NA	NA	Mon 1/3/21	Sat 6/3/21	0 days	1 days	1123,1118		
126	Installation of 14 precast units with feeder pipe installation (2.5 days per unit)	37 days		37 days	0%	Mon 8/3/21	Thu 22/4/21		NA	Mon 8/3/21	Thu 22/4/21		2 days	1125,1107SS+75		
127		-	-	33 days	0%	Fri 23/4/21	Wed 2/6/21		NA	Fri 23/4/21	Wed 2/6/21	0 days		days 1126		
121	Inspection Shaft Construction and Backfilling Upto +2.0mPD + Feeder Pipe Laying + Backfilling upto Final Formation Level	JJ uays	0 udys	55 uays	0.0	111 2017121	11 CU 2/0/21	1111	110	11123/4/21	1100 20121	0 uays	0.5 uay	1120		
128	Seawall Reinstatement	75 days	0 days	75 days	0%	Thu 3/6/21	Tue 31/8/21	NA	NA	Sat 25/2/23	Tue 30/5/23	518 days	2 days	1127		
129	Section 4: Part 2E	225 days	0 days	225 days	0%	Mon 15/8/22	Wed 17/5/23	NA	NA	Sat 10/9/22	Tue 30/5/23	10 days				
130	Abandon Existing DCS - Temp. Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Mon 15/8/22	Mon 15/8/22	NA	NA	Sat 10/9/22	Sat 10/9/22	26 days	1 day			
131	Abandon Existing DCS - Temp. Works Design and Method Statement Comment &	35 days	0 days	35 days	0%	Mon 15/8/22	Sun 18/9/22	NA	NA	Sat 10/9/22	Fri 14/10/22	26 days	1 day	1130		
132	Appraoval Part 2E - Abandon of existing DCS	185 days	0 days	185 days	0%	Mon 3/10/22	Wed 17/5/23	NA	NA	Sat 15/10/22	Tue 30/5/23	10 days	9 days	20,1131		
133	Planned Completion for Section 4	0 days	-	0 days	0%	Wed 17/5/23	Wed 17/5/23		NA	Tue 30/5/23	Tue 30/5/23	10 days		1132		
134	Section 8: Part 2A - Diversion & abandon of extg DCS box culvert	194 days	-	194 days	0%	Thu 1/4/21	Wed 24/11/21		NA	Fri 9/4/21	Thu 2/12/21	4 days				
135	-	0 days		0 days	0%	Thu 1/4/21	Thu 1/4/21		NA	Fri 9/4/21	Fri 9/4/21	8 days	1 dav			
136	Method Statement Submission Diversion & Abandon of Existing DCS Box Culvert - Temp. Works Design and Method Statement Comment & Appraoval			21 days	0%	Thu 1/4/21	Wed 21/4/21		NA	Fri 9/4/21	Thu 29/4/21		1 day	1135		
137	TTA Implementation	1 day	0 days	1 day	0%	Thu 22/4/21	Thu 22/4/21	NA	NA	Fri 30/4/21	Fri 30/4/21	7 days	0.5 day	1136		
																_

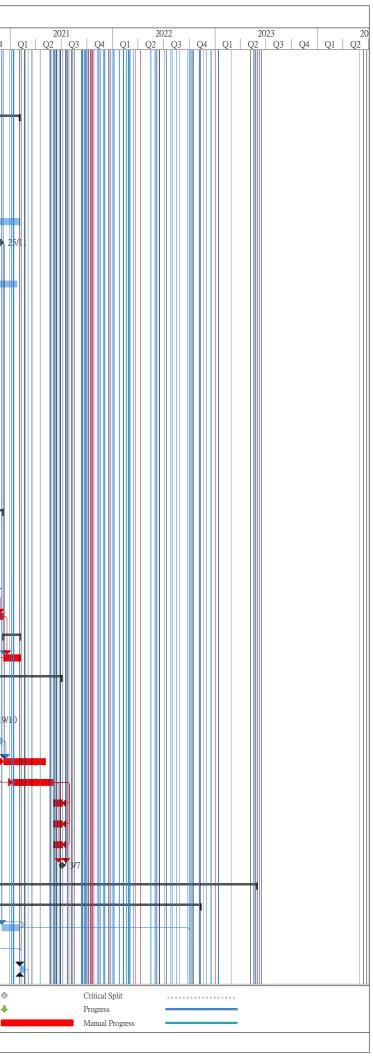
Page 26 of 36



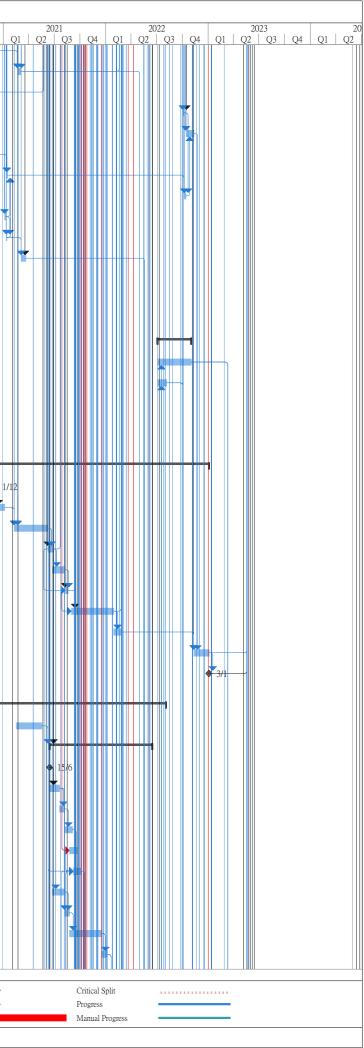
	aalt Nama	During	A atri-1	Domestin	Dlar:1 //	Earl- C.	East. E'	A atri-1 Cr	A at	h Loto Ct	Lote Eini 1	T-+-1	TDA	Deade		020
	ask Name	Duration	Duration	Remaining Duration	Physical % Complete	Early Start		Actual Start			Late Finish	Total Slack	TRA	Predecessors	Q2	020 Q3
1138	Sheetpile Installation	25 days	0 days	25 days	0%	Fri 23/4/21	Mon 24/5/21	NA	NA	Mon 3/5/21	Tue 1/6/21	7 days	1 day	1137		
139	Excavation with Shoring	52 days	0 days	52 days	0%	Tue 25/5/21	Mon 26/7/21	NA	NA	Wed 2/6/21	Tue 3/8/21	7 days	1 day	1138		
140	Diversion of existing DCS box culvert	26 days	0 days	26 days	0%	Tue 27/7/21	Wed 25/8/21	NA	NA	Wed 4/8/21	Thu 2/9/21	7 days	2 days	1137,410,1139		
141	Break up existing box culvert (4 walls) + top slab	35 days	0 days	35 days	0%	Thu 26/8/21	Thu 7/10/21	NA	NA	Fri 3/9/21	Sat 16/10/21	7 days	2 days	1140		
142	Construct new walls at existing box culvert	20 days	0 days	20 days	0%	Fri 8/10/21	Mon 1/11/21	NA	NA	Mon 18/10/21	Tue 9/11/21	7 days	1 days	1141		
1143	Abandon existing DCS box culvert	20 days	0 days	20 days	0%	Tue 2/11/21	Wed 24/11/21	NA	NA	Wed 10/11/21	Thu 2/12/21	7 days	1 days	1142		
1144	Planned Completion for Section 8	0 days	0 days	0 days	0%	Wed 24/11/21	Wed 24/11/21	l NA	NA	Thu 2/12/21	Thu 2/12/21	7 days	0 days	1143		
1145	Section 3	729 days	0 days	729 days	0%	Thu 16/5/19	Tue 26/10/21	NA	NA	Tue 2/6/20	Tue 2/11/21	6 days			⊢+-	
1146	Part 2C - Lift LT3 & LT4	729 days	0 days	729 days	0%	Thu 16/5/19	Tue 26/10/21	NA	NA	Tue 2/6/20	Tue 2/11/21	6 days				
1147	Access Date - Part 2A.2C	0 days		0 days	0%	Tue 2/6/20	Tue 2/6/20	NA	NA	Tue 2/6/20	Tue 2/6/20		0 days	4FS+369 days		2/6
1148	Mobilization of plant and materials	15 days		15 days	0%	Thu 16/5/19	Sat 1/6/19	NA	NA	Sat 4/7/20	Tue 21/7/20	337 days		11 0 1 0 0 uligo		12/0
	-			-										11.47		
1149	TTA implementation		0 days	4 days	0%	Tue 2/6/20	Fri 5/6/20	NA	NA	Fri 17/7/20	Tue 21/7/20	37 days	l day	1147		
1150	Carry out Titpit and Identify Underground Utilities location	12 days		12 days	0%	Mon 15/6/20	Fri 26/6/20	NA	NA	Mon 22/6/20	Fri 3/7/20	7 days				1
1151	Discuss with Relevant Utilities Undertakers	18 days	0 days	18 days	0%	Sat 27/6/20	Tue 14/7/20	NA	NA	Sat 4/7/20	Tue 21/7/20	7 days		1150		ħ
1152	Slew CLP Cable and Abandon Telecom Cable (tentative)	75 days	0 days	75 days	0%	Wed 15/7/20	Mon 12/10/20) NA	NA	Wed 22/7/20	Mon 19/10/20	6 days	4 days	1148,1149,1151		
1153	Lift Tower Foundation - Temp. Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Tue 4/8/20	Tue 4/8/20	NA	NA	Tue 15/9/20	Tue 15/9/20	42 days	1 day			•
1154	Lift Tower Foundation - Temp. Works Design and Method Statement Comment & Appraoval	35 days	0 days	35 days	0%	Tue 4/8/20	Mon 7/9/20	NA	NA	Tue 15/9/20	Mon 19/10/20	42 days	1 day	1153		
1155	Intall Sheetpile, ELS, Excavation and Temp. Works Installation (Shoring, Drainag	e 38 days	0 days	38 days	0%	Tue 13/10/20	Thu 26/11/20	NA	NA	Tue 20/10/20	Thu 3/12/20	6 days	2 days	1154,1152		
1156	& Slope Protection) Foundation Construction (Pad Footing include blinding layer, formwork erection,	38 days	0 days	38 days	0%	Fri 27/11/20	Wed 13/1/21	NA	NA	Fri 4/12/20	Wed 20/1/21	6 days	2 days	1148,1152,175,1		
1157	rebar fixing & concreting) Sheepile Extraction & Backilling	13 days	0 days	13 days	0%	Thu 14/1/21	Thu 28/1/21	NA	NA	Thu 21/1/21	Thu 4/2/21	6 days	1 day	1156		
1158	Lift Tower - Temp. Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Mon 2/11/20	Mon 2/11/20	NA	NA	Fri 1/1/21	Fri 1/1/21	60 days	1 dav			
159	Lift Tower - Temp. Works Design and Method Statement Comment & Appraoval	35 days		35 days	0%	Mon 2/11/20		NA	NA	Fri 1/1/21	Thu 4/2/21	60 days		1158		
1160	Lift Shaft Tower: 3 Lifts x 20 day/Lift, Falsework & Formwork Erection, Rebar	63 days		63 days	0%	Fri 29/1/21	Mon 19/4/21		NA	Fri 5/2/21	Mon 26/4/21		3 days	1156,1159,1157		
	Fixing & Concreting			-												
1161	Lift installation (LT3 & LT4)	90 days		90 days	0%	Tue 20/4/21	Fri 6/8/21	NA	NA	Tue 27/4/21	Fri 13/8/21		5 days	1160,713		
162	E & M installation	30 days		30 days	0%	Sat 7/8/21	Fri 10/9/21	NA	NA	Sat 14/8/21	Fri 17/9/21		3 days	1161		
1163	Louvers and Glazing Installation	26 days	-	26 days	0%	Fri 21/5/21	Mon 21/6/21		NA	Sat 14/8/21	Mon 13/9/21	71 days		1160FS+25 days	8	
1164	Parapet Installation and Finishing Works	40 days	0 days	40 days	0%	Tue 22/6/21	Sat 7/8/21	NA	NA	Tue 14/9/21	Tue 2/11/21	71 days	4 days	1163		
1165	CLP Meter Installation	0 days	0 days	0 days	0%	Mon 1/2/21	Mon 1/2/21	NA	NA	Fri 20/8/21	Fri 20/8/21	200 days	s 0.5 day			
1166	EMSD Submission Form 5 for Lift Inspection	0 days	0 days	0 days	0%	Mon 1/3/21	Mon 1/3/21	NA	NA	Fri 20/8/21	Fri 20/8/21	172 days	s 0.5 day	1165		
1167	EMSD Lift Inspection	0 days	0 days	0 days	0%	Sun 14/3/21	Sun 14/3/21	NA	NA	Fri 3/9/21	Fri 3/9/21	172 days	s 0.5 day	1166FS+14 days	8	
1168	Issuance of Lift Use Permit	0 days	0 days	0 days	0%	Mon 29/3/21	Mon 29/3/21	NA	NA	Sat 18/9/21	Sat 18/9/21	172 days	0.5 day	1167FS+15 days	8	
1169	Testing & commissioning with Statutory Inspection	36 days	0 days	36 days	0%	Sat 11/9/21	Tue 26/10/21	NA	NA	Sat 18/9/21	Tue 2/11/21	6 days	1 days	1162,1168		
1170	Footpath	28 days	0 days	28 days	0%	Tue 20/4/21	Mon 24/5/21	NA	NA	Tue 8/6/21	Mon 12/7/21	40 days	1 days	1160		
1171	Open Space within Part 2C	94 days	0 days	94 days	0%	Tue 25/5/21	Mon 13/9/21	NA	NA	Tue 13/7/21	Tue 2/11/21	40 days	4 days	1170,1230		
1172	Planned Completion for Section 3	0 days	0 days	0 days	0%	Tue 26/10/21	Tue 26/10/21	NA	NA	Tue 2/11/21	Tue 2/11/21	6 days	0 days	1171,1168,1169		
1173	Sections 5 and 9: Noise Barrier Installation		6.83 days	373.17 days	0%	Fri 20/3/20	Sat 3/7/21	Fri 20/3/20	NA	Fri 20/3/20	Mon 5/7/21	-	1 day			
1174	1.0 Noise Barrier Shop Drawing Preparation, Offsite Fabrication		20.86 days	120.14 days	0%	Mon 6/4/20	Thu 24/9/20	Mon 6/4/20	NA	Mon 6/4/20	Mon 7/12/20	60 days	1 duy			
			-	-								-	1			
1175	CNP and TTA available	0 days		0 days	0%	Wed 24/6/20	Wed 24/6/20		NA	Thu 20/8/20	Thu 20/8/20	47 days				24
1176	Expose the Extisting Noise Barrier Foundation	70 days		45 days	36%	Mon 6/4/20	Fri 3/7/20	Mon 6/4/20	NA	Mon 6/4/20	Tue 7/7/20	3 days				
1177	Implement TTA	2 days	0 days	2 days	0%	Mon 13/7/20	Tue 14/7/20	NA	NA	Wed 18/11/20	Thu 19/11/20	107 days	s 0.5 day			
1178	Expose the Extisting Noise Barrier Foundation under Existing Footpath	15 days	0 days	15 days	0%	Wed 15/7/20	Fri 31/7/20	NA	NA	Fri 20/11/20	Mon 7/12/20	107 days	s 1 day	1177		F
1179	Carry out the Site Survey for Existing Holding Down Bolt at Existing Landscaped Deck	6 days	0 days	6 days	0%	Wed 24/6/20	Thu 2/7/20	NA	NA	Thu 20/8/20	Wed 26/8/20	47 days	1 day	1175		F
1180	Noise Barrier Shop Drawings Preparation	30 days	0 days	30 days	0%	Fri 31/7/20	Thu 3/9/20	NA	NA	Fri 21/8/20	Thu 24/9/20	18 days	0.5 day	1176FF+18 days	8	
1181	Noise Barrier Shop Drawings Comment by PM	18 days	0 days	18 days	0%	Fri 4/9/20	Thu 24/9/20	NA	NA	Fri 25/9/20	Sat 17/10/20	18 days	0.5 day	1180		
1182	PMAA Panel Material Sample Submission	0 days	0 days	0 days	0%	Sat 2/5/20	Sat 2/5/20	NA	NA	Sat 6/6/20	Sat 6/6/20	30 days	1 days		• 2	/5
	T L	C			Tax of A	Vilestone		Durantin			Channel 1				<u> </u>	ilart
	11 Prog with Progress Task Max: 20 Split	Summary Project Sum	ımary		Inactive M			Duration-o Manual Su	nly mmary Rollup		Start-only Finish-only		C]		ernal Mi dline	iestor
	-May-20	Inactive Tas			Manual T			Manual Su			External Tasl				ical	



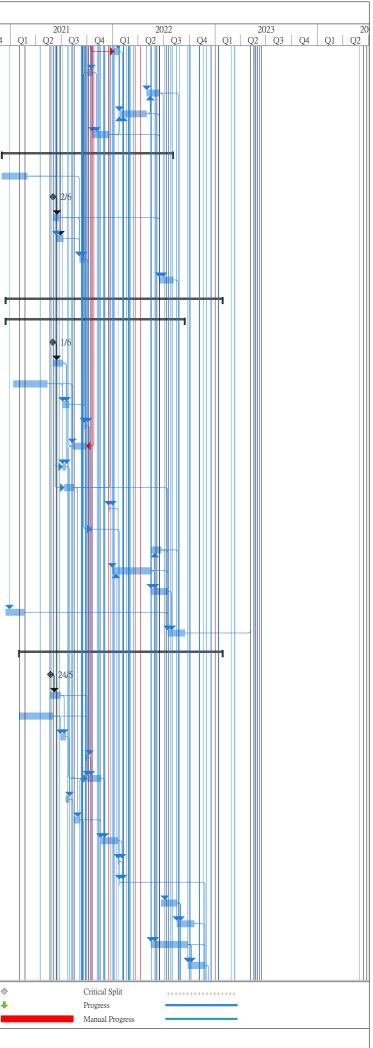
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	Fask Name	Duration Actual Duration	Remaining Duration	Physical % Complete	Early Start			Actual Finis		Late Finish	Total Slack	TRA	Predecessors		20 Q3	(
1183	PMAA Panel Material Comment and Approval by PM	18 days 0 days	18 days	0%	Sat 2/5/20	Fri 22/5/20	NA	NA	Sat 6/6/20	Sat 27/6/20	30 days	1 days	1182			
1184	PMAA Panel Material Coloring Sample Submission	0 days 0 days	0 days	0%	Thu 4/6/20	Thu 4/6/20	NA	NA	Mon 29/6/20	Mon 29/6/20	20 days	1 days	1183		4/6	
1185	PMAA Panel Material Coloring Sample Comment and Approval by PM	10 days 0 days	10 days	0%	Thu 4/6/20	Mon 15/6/20	NA	NA	Mon 29/6/20	Fri 10/7/20	20 days	1 days	1184			
1186	Material Testing and Offsite Fabrication	247 days 0 days	247 days	0%	Mon 1/6/20	Tue 2/2/21	NA	NA	Wed 10/6/20	Wed 17/2/21	9 days					
1187	Holding Down Bolt Procurement	61 days 0 days	61 days	0%	Fri 5/6/20	Tue 4/8/20	NA	NA	Wed 10/6/20	Sun 9/8/20	5 days	1 days				
1188	Holding Down Bolt Testing	45 days 0 days	45 days	0%	Wed 5/8/20	Fri 18/9/20	NA	NA	Mon 10/8/20	Wed 23/9/20	5 days	1 day	1187			
1189	Structural Steelwork Procurement	81 days 0 days	81 days	0%	Mon 1/6/20	Thu 20/8/20	NA	NA	Sat 13/6/20	Tue 1/9/20	12 days	1 day				
1190	Structural Steel Frame Material Testing	46 days 0 days	46 days	0%	Fri 21/8/20	Mon 5/10/20	NA	NA	Wed 2/9/20	Sat 17/10/20	12 days	1 day	1189			h
1191	Structural Steel Frame Fabrication and Delivery	120 days 0 days	120 days	0%	Tue 6/10/20	Tue 2/2/21	NA	NA	Sun 18/10/20	Sun 14/2/21	12 days	1 day	1181,1190			1
1192	Structural Steel Frame Start Delivery to Stie	0 days 0 days	0 days	0%	Wed 25/11/20	Wed 25/11/20	NA	NA	Tue 8/12/20	Tue 8/12/20	12 days	1 day	1191SS+51 days			4
1193	Polymethyl Metharylate (PMMA) and Associated Aluminium Sub-frame	121 days 0 days	121 days	0%	Tue 16/6/20	Wed 14/10/20	NA	NA	Sat 11/7/20	Sun 8/11/20	25 days	1 day	1185			
194	Procurement Polymethyl Metharylate (PMMA) panel fabrication and delivery	101 days 0 days	101 days	0%	Thu 15/10/20	Sat 23/1/21	NA	NA	Mon 9/11/20	Wed 17/2/21	25 days	30 days	1193,1181			
195	Temp Works Design for Noise Barrier	106 days 0 days	106 days	0%	Sat 13/6/20	Mon 19/10/20	NA	NA	Fri 19/6/20	Sat 24/10/20	5 days			ŀ		4
196	ELS Design Preparation for Noise Barrier with ICE	18 days 0 days	18 days	0%	Wed 17/6/20	Thu 9/7/20	NA	NA	Tue 23/6/20	Wed 15/7/20	5 days	1 day				
1197	ELS Design for Noise Barrier Comment by AECOM	21 days 0 days	21 days	0%	Fri 10/7/20		NA	NA	Thu 16/7/20	Wed 5/8/20		1 day	1196			
1198	Temporary Works Platform Design Preparation	36 days 0 days	36 days	0%	Sat 13/6/20	Mon 27/7/20		NA	Fri 19/6/20	Sat 1/8/20		1 day				
1190	Temporary Working Platform Design Frequencies	19 days 0 days	19 days	0%	Tue 28/7/20	Tue 18/8/20		NA	Mon 3/8/20	Mon 24/8/20		1 day	1198			
200	Temporary Working Platform Fabrication	51 days 0 days	51 days	0%	Wed 19/8/20	Mon 19/10/20		NA	Tue 25/8/20	Sat 24/10/20		1 day	1198			l
	2.0 Noise Barrier Footing and Modification Existing Column Stud		181.29 days	0%	Fri 20/3/20			NA	Fri 20/3/20	Wed 23/9/20		1 uay	1199			
1201		184 days 2.71 days					Fri 20/3/20				4 days					
1202	Take up the Works Area	1 day 1 day	0 days	0%	Fri 20/3/20		Fri 20/3/20	Fri 20/3/20	Fri 20/3/20	Fri 20/3/20	0 days		1156			
1203	Ground Investigation Works	25 days 0 days	25 days	0%	Sat 4/7/20		NA	NA	Wed 8/7/20	Wed 5/8/20		1 day	1176			
1204	Diversion of Existing Utilities and ELS Construction	42 days 0 days	42 days	0%	Mon 3/8/20		NA	NA	Thu 6/8/20	Wed 23/9/20		1 day	1197,1203			
1205	Fooing with Column Stud Construction	61 days 0 days	61 days	0%	Wed 23/9/20	Sat 5/12/20	NA	NA	Thu 24/9/20	Mon 7/12/20	1 day					ľ
1206	Bay 1 & 3 Fooing with Column Stud and Modification of Existing Column Stud along Bay 1 & 3 $$	10 days 0 days	10 days	0%	Wed 23/9/20	Tue 6/10/20	NA	NA	Thu 24/9/20	Wed 7/10/20	1 day	1 day	1188,1204,184F			
1207	Bay 2 & 4 Fooing with Column Stud and Modification of Existing Column along Bay 2&4	10 days 0 days	10 days	0%	Wed 7/10/20	Sat 17/10/20	NA	NA	Thu 8/10/20	Mon 19/10/20	1 day	1 day	1206			f
1208	Bay 5 & 7 Fooing with Column Stud, Modification of Existing Stud along Bay 5&	&7 10 days 0 days	10 days	0%	Mon 19/10/20	Fri 30/10/20	NA	NA	Tue 20/10/20	Sat 31/10/20	1 day	1 day	1207			ĺ
1209	Bay 6 Fooing with Column Stud, Modification of Existing Stud along Bay 6	10 days 0 days	10 days	0%	Sat 31/10/20	Wed 11/11/20	NA	NA	Mon 2/11/20	Thu 12/11/20	1 day	1 day	1208			
1210	Backfill and extract sheet pile	21 days 0 days	21 days	0%	Thu 12/11/20	Sat 5/12/20	NA	NA	Fri 13/11/20	Mon 7/12/20	1 day	1 day	1209			
1211	Modification of Remaining Colum Stud	50 days 0 days	50 days	0%	Mon 7/12/20	Fri 5/2/21	NA	NA	Tue 8/12/20	Sat 6/2/21	1 day	1 day				ĺ
1212	Modification of Remaining Column Stud	50 days 0 days	50 days	0%	Mon 7/12/20	Fri 5/2/21	NA	NA	Tue 8/12/20	Sat 6/2/21	1 day	1 day	1210,1178			
1213	Noise Barrier Installation	258 days 0 days	258 days	0%	Wed 19/8/20	Sat 3/7/21	NA	NA	Sat 26/9/20	Mon 5/7/21	1 day	1 day			r -	
1214	CNP Application	31 days 0 days	31 days	0%	Wed 19/8/20	Fri 18/9/20	NA	NA	Sat 26/9/20	Mon 26/10/20	38 days	1 day	1199			H
1215	Temporary Platform Delivery to Site	0 days 0 days	0 days	0%	Mon 19/10/20	Mon 19/10/20	NA	NA	Tue 27/10/20	Tue 27/10/20	5 days	0.5 day	1200			
1216	Temporary Platform On-site Assembly (Night Time)	36 days 0 days	36 days	0%	Tue 20/10/20	Tue 1/12/20	NA	NA	Tue 27/10/20	Mon 7/12/20	5 days	0.5 day	1214,1215			
1217	Structural Steel Frame Installation	119 days 0 days	119 days	0%	Mon 7/12/20	Wed 5/5/21	NA	NA	Tue 8/12/20	Thu 6/5/21	1 day	1 day	1192,121288,12			
1218	PMMA and Associated Aluminum Sub-frame Installation	117 days 0 days	117 days	0%	Fri 8/1/21	Wed 2/6/21	NA	NA	Sat 9/1/21	Thu 3/6/21	1 day	1 day	1194SS+50 days			
1219	Lighting Installation	25 days 0 days	25 days	0%	Thu 3/6/21		NA	NA	Fri 4/6/21	Mon 5/7/21	1 day	1 day	1218FF+25 days			
1220	Rainwater downpipe	25 days 0 days	25 days	0%	Thu 3/6/21		NA	NA	Fri 4/6/21	Mon 5/7/21	1 day	1 day	1218FF+25 days			
1220	Bus Lay-by	25 days 0 days	25 days	0%	Thu 3/6/21		NA	NA	Fri 4/6/21	Mon 5/7/21	1 day		1218FF+25 days			
1221	Planned Completion for Section 5 & Section 9	0 days 0 days	0 days	0%	Sat 3/7/21		NA	NA	Mon 5/7/21	Mon 5/7/21	1 day	0 days	1218,1219,1220,			
222	Section 6		1192.27 days?		Thu 16/5/19		Thu 16/5/19		Thu 16/5/19	Wed 29/5/24	298 da	o uays	1210,1217,1220,			
		1201 days 8.73 days														
1224	Fencing (15m/d) & Hoarding Erection (10m/d)	915 days 185.72 days		0%	Tue 15/10/19	Thu 10/11/22			Tue 15/10/19	Fri 30/12/22	42 days	1.7	101.0			
1225	Hoarding - Part 1 (~57m)	51 days 0 days	51 days	0%	Tue 1/12/20		NA	NA	Wed 21/9/22	Mon 21/11/22			121,8			
1226	Fencing - Part 1 (758m)	6 days 0 days	6 days	0%	Sat 19/9/20		NA	NA	Mon 1/3/21	Sat 6/3/21	130 days		121,8			ţ
227	Fencing - Part 2A (~458m) - 4 team	12 days 0 days	12 days	0%	Wed 3/2/21	Fri 19/2/21	NA	NA	Sat 5/2/22	Fri 18/2/22	296 days	1 days	9,121,1147,1445			
tle: Re	v.11 Prog with Progress	Summary	1	Inactive N	dilestone 🔷		Duration-on	ly		Start-only		C	Exte	rnal Mil	estone	1
	2-May-20	Project Summary	1	Inactive S				nmary Rollup 📲		Finish-only		3		dline		
	Milestone	Inactive Task		Manual T	ask		Manual Sun	nmary	1	External Tas	KS		Criti	ical		



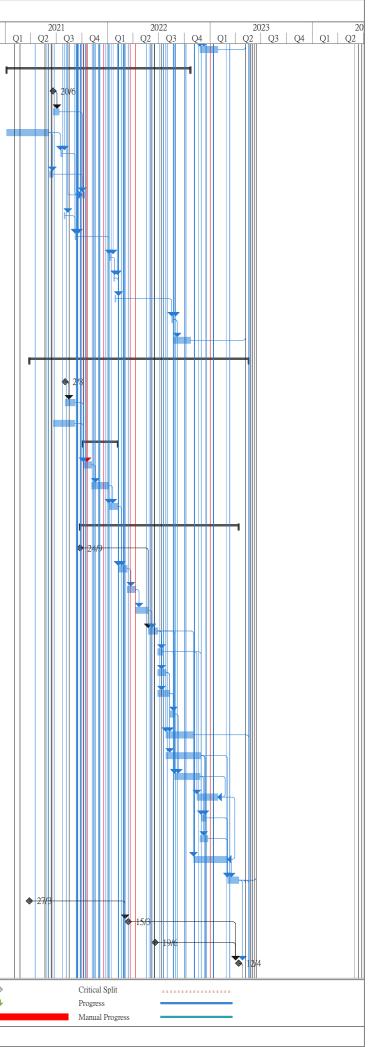
) Ta	isk Name	Duration	Actual	Remaining	Physical %	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total	TRA	Predecessors	202	20	—
1228	Hoarding - Part 2A (~379m) - 4 team		Duration	Duration 12 days	Complete 0%	Mon 2/11/20	Sat 14/11/20		NA	Sat 5/2/22	Fri 18/2/22	Slack 373 days		9,121,1147,1445	Q2	Q3	Q2
1228		12 days		-	0%		Tue 2/3/21			Sat 3/2/22 Sat 19/2/22			-				
	Fencing - Part 2B (~132m)		0 days	9 days		Sat 20/2/21		NA	NA		Tue 1/3/22	296 days		10,121,1227,122		Ų	
1230	Hoarding - Part 2C (~106m)		0 days	9 days	0%	Sat 19/9/20	Tue 29/9/20		NA	Fri 2/7/21	Mon 12/7/21	229 days	-	9,121,1147,1445			T
1231	Hoarding - Part 2E (~37m)		0 days	4 days	0%	Mon 3/10/22	Fri 7/10/22		NA	Tue 22/11/22	Fri 25/11/22	42 days	-	11,121,1225			
1232	Fencing - Part 3A (~326m)	24 days	-	24 days	0%	Fri 14/10/22	Thu 10/11/22		NA	Fri 2/12/22	Fri 30/12/22	42 days		12,121,1235			
1233	Fencing - Part 3D (~29m)	2 days	0 days	2 days	0%	Sat 19/9/20	Mon 21/9/20		NA	Sat 12/6/21	Tue 15/6/21	214 days		14,121		}	Ħ
1234	Fencing - Part 3E (~23m)	2 days	0 days	2 days	0%	Wed 13/1/21	Thu 14/1/21		NA	Wed 16/6/21	Thu 17/6/21	123 days	0 days	14,121,1236,123			
1235	Fencing - Part 3F (~62m)	5 days	0 days	5 days	0%	Sat 8/10/22	Thu 13/10/22	NA	NA	Sat 26/11/22	Thu 1/12/22	42 days	0 days	15,121,1231,123			
1236	Fencing - Part 3G (~69m)	5 days	0 days	5 days	0%	Tue 5/1/21	Sat 9/1/21	NA	NA	Mon 7/6/21	Fri 11/6/21	123 days	0 days	14,121			
1237	Fencing - Part 3I (~19m)	2 days	0 days	2 days	0%	Mon 11/1/21	Tue 12/1/21	NA	NA	Sat 12/6/21	Tue 15/6/21	123 days	0 days	14,121,1236			
1238	Fencing - Part 4 (~180m)	14 days	0 days	14 days	0%	Fri 5/3/21	Sat 20/3/21	NA	NA	Tue 24/5/22	Thu 9/6/22	361 days	2 days	121,13,1237			
1239	Fencing - Part 6A (~19m)	2 days	0 days	2 days	0%	Sat 19/9/20	Mon 21/9/20	NA	NA	Sat 26/9/20	Mon 28/9/20	6 days	0 days	8,121,1241		T T	
1240	Fencing - Part 6B (~23m)	2 days	0 days	2 days	0%	Tue 22/9/20	Wed 23/9/20	NA	NA	Tue 29/9/20	Wed 30/9/20	6 days	0 days	8,121,1239		*	1
1241	Hoarding - WA1 (~300m)	41 days	41 days	0 days	70%	Tue 15/10/19	Sat 30/11/19	Tue 15/10/19	Sat 30/11/19	Tue 15/10/19	Sat 30/11/19	0 days	0.5 days	18,121	\rightarrow		
1242	Fencing (15m/d) & Hoarding Erection (10m/d) - Upon Works Completion	100 days	0 days	100 days	0%	Tue 5/7/22	Tue 1/11/22	NA	NA	Fri 5/8/22	Fri 2/12/22	27 days					
1243	Fencing - ~1437m	100 days	0 days	100 days	0%	Tue 5/7/22	Tue 1/11/22	NA	NA	Fri 5/8/22	Fri 2/12/22	27 days	5 days	1527			
1244	Hoarding - ~260m	28 days	0 days	28 days	0%	Tue 5/7/22	Fri 5/8/22	NA	NA	Mon 19/9/22	Sat 22/10/22	64 days	2 days	1527			
1245	Demolition Work - Extg Fire Service Station	89 days	89 days	0 days	0%	Fri 16/8/19	Sat 30/11/19	Fri 16/8/19	Sat 30/11/19	Fri 16/8/19	Sat 30/11/19	0 days					
1246	Asbesto Survey (PS Cl. 2.04(9))	8 days	8 days	0 days	100%	Fri 16/8/19	Fri 23/8/19	Fri 16/8/19	Fri 23/8/19	Fri 16/8/19	Fri 23/8/19	0 days	0.5 days	1226			
1247	Demolish of abandoned Fire Service Station	11 days	11 days	0 days	100%	Tue 19/11/19	Sat 30/11/19	Tue 19/11/19	Sat 30/11/19	Tue 19/11/19	Sat 30/11/19	0 days	0.5 days	1246			
248	Rising Main	623 days	0 days	623 days	0%	Tue 1/12/20	Tue 3/1/23	NA	NA	Mon 1/2/21	Tue 30/5/23	50 days					
1249	Rising Main - Method Statement Submission		0 days	0 days	0%	Tue 1/12/20	Tue 1/12/20	NA	NA	Mon 1/2/21	Mon 1/2/21	62 days	0.5 days				
1250	Rising Main Method Statement Comment & Appraoval	35 days	-	35 days	0%	Tue 1/12/20	Mon 4/1/21		NA	Mon 1/2/21	Sun 7/3/21	62 days	-	1249			
1251	Part 1 - CHA660-1097.77 - 2x160mm dia (~438m)	95 days		95 days	0%	Mon 8/2/21	Mon 7/6/21		NA	Mon 8/3/21	Sat 3/7/21	21 days		8,1226,427,419,1			
1251	Part 9A - CHA32-71 - 2x160mm dia (~39m) (KD5)	15 days	-	15 days	0%	Tue 8/6/21	Fri 25/6/21	NA	NA	Mon 5/7/21	Wed 21/7/21	21 days		8,1251			
253	Part 9B Rising Main	36 days		36 days	0%	Sat 26/6/21	Sat 7/8/21	NA	NA	Thu 22/7/21	Wed 1/9/21	21 days		1252			
1255	Part 3B - CHA418-443 - 2x160mm dia (~25m) (KD7)		0 days	10 days	0%		Thu 19/8/21		NA	Thu 2/9/21				13,125288,1253			
1254	Part 9 - CHA0-363 & 71-363 - 2x160mm dia. (~655m) (KD4)			-	0%	Tue 31/8/21	Fri 28/1/22		NA	Thu 2/9/21				16,125488			
		124 days		124 days							Mon 31/1/22	2 days					
1256	Part 8 - CHA363-418&443-452 - 2x160mm dia (~64m)	20 days		20 days	0%	Sat 29/1/22	Thu 24/2/22		NA	Thu 9/3/23	Fri 31/3/23	330 days		1255			
1257	Part 3A - CH452-660 - 2x160mm dia (~208m)	45 days	-	45 days	0%	Fri 11/11/22	Tue 3/1/23	NA	NA	Sat 1/4/23	Tue 30/5/23	117 days	6 days	12,1232,1256			
1258	Allow Access for EMSD third District Cooling System Contractor for DCS Pipelin Laying at Parts 3A, 3B, 8, 9 and 9A	e 0 days	0 days	0 days	0%	Tue 3/1/23	Tue 3/1/23	NA	NA	Tue 30/5/23	Tue 30/5/23	147 days		1257			
1259	Underground Drainage (Stormwater & Sewerage Drainage)	496 days	0 days	496 days	0%	Tue 1/12/20	Wed 3/8/22	NA	NA	Wed 31/3/21	Wed 5/10/22	51 days					
1260	Procurement of Stormwater Drainage Pipes	90 days	0 days	90 days	0%	Tue 16/2/21	Sun 16/5/21	NA	NA	Wed 31/3/21	Mon 28/6/21	43 days	1 day				
1261	Stormwater Drainage	299 days		299 days	0%	Tue 15/6/21	Wed 15/6/22	NA	NA	Tue 29/6/21	Wed 21/9/22	12 days		428,465,1260			
1262	Stormwater Drainage - ELS Temp. Works Design and Method Statement	0 days	-	0 days	0%	Tue 15/6/21	Tue 15/6/21		NA	Tue 29/6/21	Tue 29/6/21	14 days	1 day				
1263	Submission Stormwater Drainage - ELS Temp. Works Design and Method Statement	35 days		35 days	0%	Tue 15/6/21	Mon 19/7/21		NA	Tue 29/6/21	Mon 2/8/21	14 days		1262			
1264	Ch1000 - CH1087 (~92.5m, 2 M/H)	16 days	-	16 days	0%	Tue 20/7/21	Fri 6/8/21	NA	NA	Tue 3/8/21	Fri 20/8/21	12 days		1263			
1265	CH1087 - CH1189.4 (~210m, 9 M/H)	24 days		24 days	0%	Sat 7/8/21	Fri 3/9/21	NA	NA	Sat 21/8/21	Fri 17/9/21	12 days		1265			
1265	CH1189.4 - CH1189.4 (~210m, 9 M/H) CH1189.4 - CH1394 (~167m, 3 MH) - Bridge D3	24 days		24 days	0%	Tue 24/8/21	Mon 20/9/21		NA	Tue 9/11/21	Mon 6/12/21	63 days	-	944SS			
1267	CH1394 - CH1444.7 (~40m, 3 M/H) - S. Ramp	21 days		21 days	0%	Tue 7/9/21	Sat 2/10/21		NA	Tue 9/11/21	Thu 2/12/21	51 days		1266SS,988SS+			
1268	CH1444.7 - CH1560 (~222m, 10 M/H) - Rd D3	38 days		38 days	0%	Wed 23/6/21	Fri 6/8/21	NA	NA	Mon 21/2/22	Wed 6/4/22	198 days		987			
1269	CH1560 - CH1720 (~239m, 8 M/H) - N.D. Rd	14 days	-	14 days	0%	Sat 7/8/21	Mon 23/8/21		NA	Thu 7/4/22	Tue 26/4/22	198 days		1263,1268,436			
1270	CH1720 - CH1920 (~450.7m, 13 M/H) Underpass	96 days	0 days	96 days	0%	Tue 24/8/21	Thu 16/12/21		NA	Wed 27/4/22	Thu 18/8/22	198 days	-	1269			
1271	CH1920 - CH2000 (~160m, 6 M/H) S.D. Rd	14 days	0 days	14 days	0%	Fri 17/12/21	Wed 5/1/22	NA	NA	Fri 19/8/22	Sat 3/9/22	198 days	1 days	1270			
		0				flat.		P :			0		F				_
	.11 Prog with Progress Task Split	Summary Project Sum	mary		Inactive M			Duration-on Manual Sun	ly 📃 1mary Rollup 💼		Start-only Finish-only		C]	Exter Dead	mal Mile: lline	tone	
is of 22-	-May-20 Milestone	Inactive Tas		~	Manual T	-		Manual Sun			External Task		-	Critic			



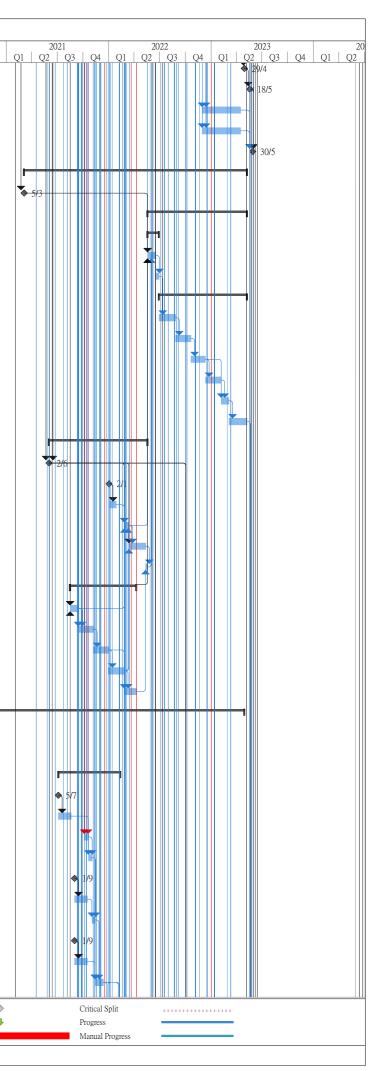
D Ta	ask Name	Duration	A ctuol	Domaining	Dhysical (/	Farly Ctout		Actual Start	Actual Finish	,	Late Finish	Total TD A	Dradaoassam	20)20
		Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start						Total TRA Slack	Predecessors	Q2)20 Q3
1272	CH2000 - CH2060 (~84m, 2 M/H) - S.D. Rd	14 days	0 days	14 days	0%	Thu 6/1/22	Fri 21/1/22	NA	NA	Mon 5/9/22	Wed 21/9/22	198 days 1 days	1085SS+12 days	8	
1273	CH2060 - CH2118.93 (~50.7m, 2 M/H) - Rd D3	14 days	0 days	14 days	0%	Mon 4/10/21	Wed 20/10/21	NA	NA	Fri 3/12/21	Sat 18/12/21	51 days 1 days	1267		
274	CH100 - CH147 (~169m, 5 M/H) - L12 Road	38 days	0 days	38 days	0%	Mon 2/5/22	Wed 15/6/22	NA	NA	Sat 2/7/22	Mon 15/8/22	51 days 3 days	1275,1229		
275	Open Space & Promenade (~457m, 11 M/H)	76 days	0 days	76 days	0%	Tue 25/1/22	Sat 30/4/22	NA	NA	Tue 29/3/22	Thu 30/6/22	51 days 6 days	1504,458,459,12		
1276	L12d Stormwater	50 days	0 days	50 days	0%	Thu 21/10/21	Fri 17/12/21	NA	NA	Wed 26/1/22	Mon 28/3/22	80 days	1273,490		
1277	Sewerage Drainage	496 days	0 days	496 days	0%	Tue 1/12/20	Wed 3/8/22	NA	NA	Sat 29/5/21	Wed 5/10/22	51 days			
1278	Procurement of Sewerage Pipes	90 days	0 days	90 days	0%	Tue 1/12/20	Sun 28/2/21	NA	NA	Sat 29/5/21	Thu 26/8/21	179 days 0.5 day	S		
1279	Sewerage Drainage - Temp. Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Wed 2/6/21	Wed 2/6/21	NA	NA	Sat 28/8/21	Sat 28/8/21	87 days 0.5 day	s		
1280	Sewerage Drainage - Temp. Works Design and Method Statement Comment &	21 days	0 days	21 days	0%	Wed 2/6/21	Tue 22/6/21	NA	NA	Sat 28/8/21	Fri 17/9/21	87 days 0.5 day	s 1279		
281	Appraoval CH1000 - CH1087 (~68m, 3 M/H)	19 days	0 days	19 days	0%	Tue 15/6/21	Wed 7/7/21	NA	NA	Fri 27/8/21	Fri 17/9/21	62 days 1 days	428,451,465,466	5	
1282	CH1087 - CH1189.4 (~47m, 1 no M/H)	14 days	0 days	14 days	0%	Sat 4/9/21	Mon 20/9/21	NA	NA	Sat 18/9/21	Wed 6/10/21	12 days 1 days	1265,1278,1280	,	
1283	CH100 - CH147 (~156m, 6 M/H) - L12 Road	41 days	0 days	41 days	0%	Thu 16/6/22	Wed 3/8/22	NA	NA	Tue 16/8/22	Wed 5/10/22	51 days 3 days	1274,1280,1275		
284	Underground Watermain	629 days	0 days	629 days	0%	Tue 15/12/20	Fri 27/1/23	NA	NA	Fri 14/5/21	Thu 16/3/23	41 days			
1285	Fresh Watermain	519 days	0 days	519 days	0%	Tue 15/12/20	Wed 14/9/22	NA	NA	Fri 14/5/21	Thu 16/3/23	119 days			
286	Fresh Watermain - Method Statement Submission	0 days		0 days	0%	Tue 1/6/21	Tue 1/6/21	NA	NA	Sat 7/8/21	Sat 7/8/21	67 days 1 days			
287	Fresh Watermain Method Statement Comment & Appraoval	35 days	-	35 days	0%	Tue 1/6/21		NA	NA	Sat 7/8/21	Fri 10/9/21	67 days 1 days	1286		
1287	Fresh Watermain Procurement	120 days		120 days	0%	Mon 11/1/21	Mon 10/5/21		NA	Fri 14/5/21	Fri 10/9/21	123 days 1 days	1200		
1288	CH1000 - CH1087 (~191m) Rd D3	20 days		20 days	0%	Tue 6/7/21	Wed 28/7/21		NA	Sat 11/9/21	Wed 6/10/21	58 days 1 days	1288,1287		
				-	0%										
1290	CH1087 - CH1189.4 (~212m) - N. Ramp	4 days		4 days		Tue 21/9/21		NA	NA	Thu 7/10/21	Mon 11/10/21	12 days 0 days	1282,467,1289		
291	CH1189.4 - CH1394 (~409.2m) - Bridge D3	42 days		42 days	0%	Tue 10/8/21	Tue 28/9/21	NA	NA	Fri 15/10/21	Thu 2/12/21	54 days 2 days	1288,944FF		
292	CH1394 - CH1444.7 (~101.4m) - S. Ramp	10 days		10 days	0%	Tue 6/7/21	Fri 16/7/21	NA	NA	Mon 15/8/22	Thu 25/8/22	332 days 0 days	988SS+10 days,		
293	CH1444.7 - CH1560 (~165m) - Rd D3	30 days	-	30 days	0%	Mon 12/7/21	Sat 14/8/21	NA	NA	Sat 27/11/21	Tue 4/1/22	116 days 0 days	988SS+15 days		
1294	CH1720 - CH1920 (~25m) - Underpass	2 days	0 days	2 days	0%	Fri 17/12/21	Sat 18/12/21	NA	NA	Fri 16/9/22	Sat 17/9/22	221 days 0 days	1270,444		
1295	CH2060 - CH2118.93 (~47m) - Rd D3	2 days	0 days	2 days	0%	Sat 16/10/21	Mon 18/10/21	NA	NA	Wed 15/12/21	Thu 16/12/21	51 days 0 days	1273SS+10 days	5	
1296	CH100 - CH147 (~280m) - L12 Road	30 days	0 days	30 days	0%	Tue 17/5/22	Tue 21/6/22	NA	NA	Tue 28/6/22	Tue 2/8/22	35 days 2 days	1297		
1297	Open Space & Promenade (~1,093m)	110 days		110 days	0%		Mon 16/5/22		NA	Wed 12/1/22	Fri 27/5/22	10 days 1 day	1497,458,111		
1298	Freshwater main across Kai Tak River	50 days	0 days	50 days	0%	Tue 17/5/22	Fri 15/7/22	NA	NA	Tue 15/11/22	Thu 12/1/23	151 days 1 day	1297,514		
1299	L12d Freshwater	50 days	0 days	50 days	0%	Tue 15/12/20	Wed 17/2/21	NA	NA	Tue 15/11/22	Thu 12/1/23	569 days	498		
1300	Fresh Watermain T&C	51 days	0 days	51 days	0%	Sat 16/7/22	Wed 14/9/22	NA	NA	Fri 13/1/23	Thu 16/3/23	151 days 1 day	1297,1296,1298	,	
1301	Salt Watermain	591 days	0 days	591 days	0%	Mon 1/2/21	Fri 27/1/23	NA	NA	Sun 20/6/21	Thu 16/3/23	41 days			
1302	Salt Watermain - Method Statement Submission	0 days	0 days	0 days	0%	Mon 24/5/21	Mon 24/5/21	NA	NA	Mon 13/9/21	Mon 13/9/21	112 days 1 day			
1303	Salt Watermain Method Statement Comment & Appraoval	35 days	0 days	35 days	0%	Mon 24/5/21	Sun 27/6/21	NA	NA	Mon 13/9/21	Sun 17/10/21	112 days 1 day	1302		
1304	Salt Watermain Procurement	120 days	0 days	120 days	0%	Mon 1/2/21	Mon 31/5/21	NA	NA	Sun 20/6/21	Sun 17/10/21	139 days 1 day			
1305	CH1000 - CH1087 (~157m) Rd D3	15 days	0 days	15 days	0%	Mon 28/6/21	Thu 15/7/21	NA	NA	Thu 18/8/22	Sat 3/9/22	341 days 1 days	1304,1303		
1306	CH1087 - CH1189.4 (~218m) - N. Ramp	4 days	0 days	4 days	0%	Mon 27/9/21	Thu 30/9/21	NA	NA	Tue 12/10/21	Sat 16/10/21	12 days 1 day	1290		
1307	CH1189.4 - CH1394 (~409.2m) - Bridge D3	40 days	0 days	40 days	0%	Sat 2/10/21	Thu 18/11/21	NA	NA	Mon 18/10/21	Thu 2/12/21	12 days 0.5 day	s 1291SS,1303,45		
1308	CH1394 - CH1444.7 (~101.4m) - S. Ramp	10 days	0 days	10 days	0%	Sat 17/7/21	Wed 28/7/21	NA	NA	Fri 26/8/22	Tue 6/9/22	332 days 1 day	1292		
1309	CH1444.7 - CH1560 (~165m) - Rd D3	18 days	0 days	18 days	0%	Mon 16/8/21	Sat 4/9/21	NA	NA	Wed 29/6/22	Wed 20/7/22	258 days 1 day	1293		
1310	CH1560 - CH1720 (~160m) - NDR	50 days	0 days	50 days	0%	Fri 19/11/21	Wed 19/1/22	NA	NA	Thu 21/7/22	Sat 17/9/22	197 days	1307,1309,444		
1311	CH1720 - CH1920 (~25m) - Underpass		0 days	3 days	0%	Thu 20/1/22	Sat 22/1/22	NA	NA	Mon 19/9/22	Wed 21/9/22	197 days 1 day	1294,1310		
1312	CH2060 - CH2118.93 (~47m) - Rd D3		0 days	2 days	0%	Mon 24/1/22	Tue 25/1/22		NA	Thu 22/9/22	Fri 23/9/22	197 days 0 days	1295,1311		
1313	CH100 - CH147 (~455m) - L12 Road	47 days	-	47 days	0%	Wed 22/6/22	Tue 16/8/22		NA	Wed 3/8/22	Tue 27/9/22	35 days 2 days	1296		
1314	L12d Salt Watermain	50 days		50 days	0%	Wed 17/8/22	Mon 17/10/22		NA	Wed 16/11/22	Fri 13/1/23	75 days 1 day	1313,498		
1314	Open Space & Promenade (~1,093m)	-	-	110 days	0%	Tue 17/5/22	Sat 24/9/22		NA	Sat 28/5/22	Sat 8/10/22		1297,458		
		110 days										10 days 1 day			
1316	Saltwater main across Kai Tak River	51 days	o uays	51 days	0%	Mon 26/9/22	Fri 25/11/22	NA	NA	Tue 15/11/22	Fri 13/1/23	41 days 1 day	1315,514		
itle: Rev	7.11 Prod with Progress	Summary			Inactive N			Duration-or	-		Start-only	C		ernal Mil	estor
	-May-20	Project Sum Inactive Tas		U	Inactive S Manual T			Manual Sur Manual Sur	nmary Rollup 💼 nmary 🛛 🕇		 Finish-only External Task 	cs and a second	Dea	dline ical	
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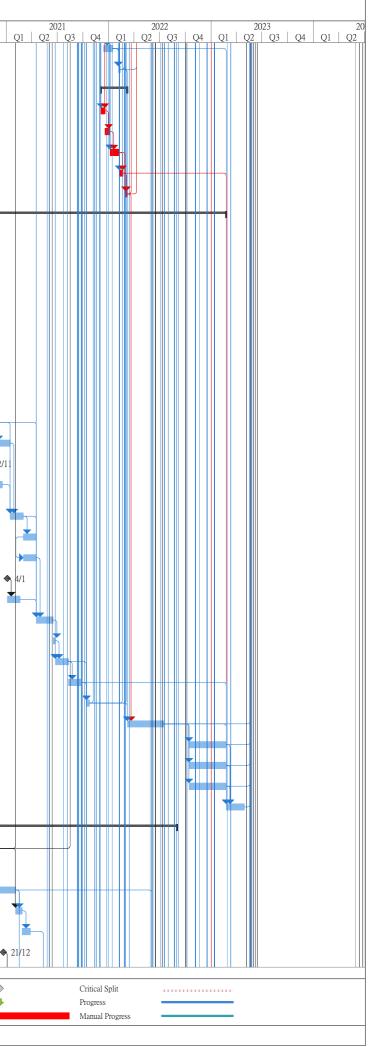
) Ta	ask Name	Duration	Actual	Remaining	Physical 0/-	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total	TRA	Predecessors	2020
			Duration	Remaining Duration	Physical % Complete							Slack	TRA	Predecessors	Q2
1317	Salt Watermain T&C	50 days	0 days	50 days	0%	Sat 26/11/22		NA	NA	Sat 14/1/23	Thu 16/3/23	41 days	-	1312,1315,1316,	
1318	Irrigation System	535 days (0 days	535 days	0%	Tue 5/1/21	Sat 22/10/22	NA	NA	Wed 16/6/21	Thu 16/3/23	120 days			
1319	Irrigation System - Method Statement Submission	0 days (0 days	0 days	0%	Sun 20/6/21	Sun 20/6/21	NA	NA	Thu 4/11/21	Thu 4/11/21	137 days	1 day		
1320	Irrigation System Method Statement Comment & Appraoval	21 days	0 days	21 days	0%	Sun 20/6/21	Sat 10/7/21	NA	NA	Thu 4/11/21	Wed 24/11/21	137 days	1 day	1319	
1321	Irrigation Pipe and System Procurement	150 days (0 days	150 days	0%	Tue 5/1/21	Thu 3/6/21	NA	NA	Wed 16/6/21	Fri 12/11/21	162 days	1 day		
1322	CH1000 - CH1087 (~87m) Rd D3	5 days (0 days	5 days	0%	Fri 16/7/21	Wed 21/7/21	NA	NA	Mon 5/9/22	Fri 9/9/22	341 days	0 days	1305,1321	
1323	CH1087 - CH1189.4 (~205m) - N. Ramp	10 days	0 days	10 days	0%	Mon 7/6/21	Fri 18/6/21	NA	NA	Sat 13/11/21	Wed 24/11/21	132 days	1 day	1321	
1324	CH1189.4 - CH1394 (~409.2m) - Bridge D3	7 days (0 days	7 days	0%	Sat 2/10/21	Sat 9/10/21	NA	NA	Thu 25/11/21	Thu 2/12/21	45 days	0 days	1307SS,1320,13	
1325	CH1394 - CH1444.7 (~101.4m) - S. Ramp	3 days	0 days	3 days	0%	Thu 29/7/21	Sat 31/7/21	NA	NA	Wed 7/9/22	Fri 9/9/22	332 days	0 days	1308	
1326	CH1444.7 - CH1560 (~175m) - Rd D3	4 days (0 days	4 days	0%	Mon 6/9/21	Thu 9/9/21	NA	NA	Mon 12/9/22	Thu 15/9/22	302 days	0 days	1309,1322,1325	
1327	CH1920 - CH2000 (~160m) S.D. Rd	5 days (0 days	5 days	0%	Thu 6/1/22	Tue 11/1/22	NA	NA	Fri 16/9/22	Wed 21/9/22	207 days	1 day	1271,1326	
1328	CH2000 - CH2060 (~60m) - S.D. Rd	2 days	0 days	2 days	0%	Sat 22/1/22	Mon 24/1/22	NA	NA	Thu 22/9/22	Fri 23/9/22	198 days	0 days	1272,1327	
1329	CH2060 - CH2118.93 (~100m) - Rd D3	3 days	0 days	3 days	0%	Wed 26/1/22	Fri 28/1/22	NA	NA	Sat 24/9/22	Tue 27/9/22	197 days	0 days	1312,1328	
1330	CH100 - CH147 (~173m) - L12 Road	5 days (0 days	5 days	0%	Wed 17/8/22	Mon 22/8/22	NA	NA	Wed 28/9/22	Wed 5/10/22	35 days	1 day	1313,1329	
1331	Irrigation System T&C	50 days	0 days	50 days	0%	Tue 23/8/22	Sat 22/10/22	NA	NA	Sat 14/1/23	Thu 16/3/23	120 days	1 day	1330	
1332	Salt Water and Sewage Pumping Station	637 days (637 days	0%	Sat 27/3/21	Thu 18/5/23			Wed 28/7/21	Tue 30/5/23	8 days	-		
1333	Salt Water Pumping Station - Temp. Works Design and Method Statement	-		0 days	0%	Mon 2/8/21		NA		Fri 10/9/21	Fri 10/9/21	39 days	1 dav		
1334	Submission Salt Water Pumping Station - Temp. Works Design and Method Statement	-	-	35 days	0%	Mon 2/8/21		NA		Fri 10/9/21	Thu 14/10/21	39 days		1333	
1335	& Appraval Utilities Diversion	65 days	-	65 days	0%	Mon 21/6/21		NA		Wed 28/7/21		-		1555	
		-											15 day		
1336	Substructure	100 days (-	100 days	0%	Tue 5/10/21	Sat 5/2/22	NA		Fri 15/10/21	Tue 15/2/22	8 days	5.1	140 1004 1005 1	
1337	Sheetpile Installation	25 days (25 days	0%	Tue 5/10/21	Wed 3/11/21			Fri 15/10/21	Fri 12/11/21		5 days	148,1334,1335,1	
1338	Excavation and Shoring Installation	50 days	-	50 days	0%	Thu 4/11/21		NA		Sat 13/11/21	Thu 13/1/22	-	5 days	1337	
1339	Base Slab Construction include blinding layer	25 days	0 days	25 days	0%	Wed 5/1/22	Sat 5/2/22	NA		Fri 14/1/22	Tue 15/2/22	8 days	3 days	1338,149FS+120	
1340	Superstructure	460 days (0 days	460 days	0%	Fri 24/9/21	Wed 12/4/23	NA	NA	Wed 16/2/22	Mon 29/5/23	38 days			
1341	Coordination with CLP to plan for Layout and Details of Transformer R	Room 0 days (0 days	0 days	0%	Fri 24/9/21	Fri 24/9/21	NA	NA	Sat 4/6/22	Sat 4/6/22	253 days			
1342	Scaflold, Falsework and Formwork Erection	28 days	0 days	28 days	0%	Mon 7/2/22	Thu 10/3/22	NA	NA	Wed 16/2/22	Sat 19/3/22	8 days	2 days	1339,719,531,54	
1343	Wall Rebar Fixing & Concreting	24 days	0 days	24 days	0%	Fri 11/3/22	Fri 8/4/22	NA	NA	Mon 21/3/22	Thu 21/4/22	8 days	1 day	1342	
1344	Top Slab and Beam: Rebar Fixing and Formwork	36 days (0 days	36 days	0%	Sat 9/4/22	Tue 24/5/22	NA	NA	Fri 22/4/22	Thu 2/6/22	8 days	2 days	1343	
1345	Formwork & Falsework Removal	28 days	0 days	28 days	0%	Wed 25/5/22	Mon 27/6/22	NA	NA	Sat 4/6/22	Thu 7/7/22	8 days	1 day	1344,1341	
1346	Watertightnes Test	15 days	0 days	15 days	0%	Tue 28/6/22	Fri 15/7/22	NA	NA	Fri 19/8/22	Mon 5/9/22	44 days	1 day	1345	
1347	Backfilling & Sheetpile Removal	24 days	0 days	24 days	0%	Tue 28/6/22	Tue 26/7/22	NA	NA	Tue 9/8/22	Mon 5/9/22	35 days	2 days	1345	
1348	Water Chamber Construction	36 days	0 days	36 days	0%	Tue 28/6/22	Tue 9/8/22	NA	NA	Fri 8/7/22	Thu 18/8/22	8 days	1 day	1345	
1349	Watertightnes Test for Water Chamber	15 days (0 days	15 days	0%	Wed 10/8/22	Fri 26/8/22	NA	NA	Fri 19/8/22	Mon 5/9/22	8 days	1 day	1348	
1350	Drainage and Roadworks	80 days	0 days	80 days	0%	Wed 27/7/22	Mon 31/10/22	NA	NA	Sat 18/2/23	Mon 29/5/23	170 days	5 days	1347,383	
1351	Utilities Laying	105 days (0 days	105 days	0%	Wed 27/7/22	Tue 29/11/22	NA	NA	Tue 6/9/22	Tue 10/1/23	35 days	5 days	1347	
1352	Finishing work and fitting out	75 days (0 days	75 days	0%	Sat 27/8/22	Fri 25/11/22	NA	NA	Tue 6/9/22	Mon 5/12/22	8 days	1 day	714,1345,555,13	
1353	Tx Installation with T&C	60 days	0 days	60 days	0%	Tue 15/11/22	Fri 27/1/23	NA	NA	Thu 24/11/22	Mon 6/2/23	8 days	1 day	1346,1352FF+50	
1354	PCCW Installation	15 days (-	15 days	0%		Fri 16/12/22	NA		Fri 24/2/23	Mon 13/3/23	70 days	1 dav	1351,1346	
1355	Ironmongery work	24 days		24 days	0%	Sat 26/11/22	Fri 23/12/22			Tue 14/2/23	Mon 13/3/23	64 days		1352	
1356	E&M installation	100 days (100 days	0%	Thu 3/11/22		NA		Sat 12/11/22	Mon 13/3/23	8 days		1332 1345,1353FF+30	
1357	Testing and Commissioning		-	30 days	0%	Sat 4/3/23	Wed 12/4/23			Tue 14/3/23	Fri 21/4/23		2 days	1345,1355,1351,	
		30 days											-	1550,1555,1551,	
1358	WSD Form 46 Part I & II Submission	-	0 days	0 days	0%	Sat 27/3/21		NA		Sat 22/4/23	Sat 22/4/23	615 days		1250	
1359	WSD Form 46 Part 46 Part IV Submission		0 days	0 days	0%	Tue 15/3/22	Tue 15/3/22			Sat 22/4/23	Sat 22/4/23	-	0.5 days	1358	
1360	CLP Meter Installation	-	0 days	0 days	0%	Sun 19/6/22	Sun 19/6/22			Sat 22/4/23	Sat 22/4/23	251 days			
1361	FSD Form 501 Submission for FS Inspection	0 days 0	0 days	0 days	0%	Wed 12/4/23	Wed 12/4/23	NA	NA	Sat 22/4/23	Sat 22/4/23	8 days	0.5 days	1359,1360,1357	
Title [.] Rev	11 Prog with Progress	Summary			Inactive 1	Milestone 🔷		Duration-or	ly		Start-only		C	Exten	al Mil
	-Mav-20	-			Inactive S	-			nmary Rollup 📩		Finish-only	len.	3	Deadl	
	Milestone	Inactive Task	2		Manual T	i ask		Manual Sur	nmary 📕		External Task	.cs		Critic	1



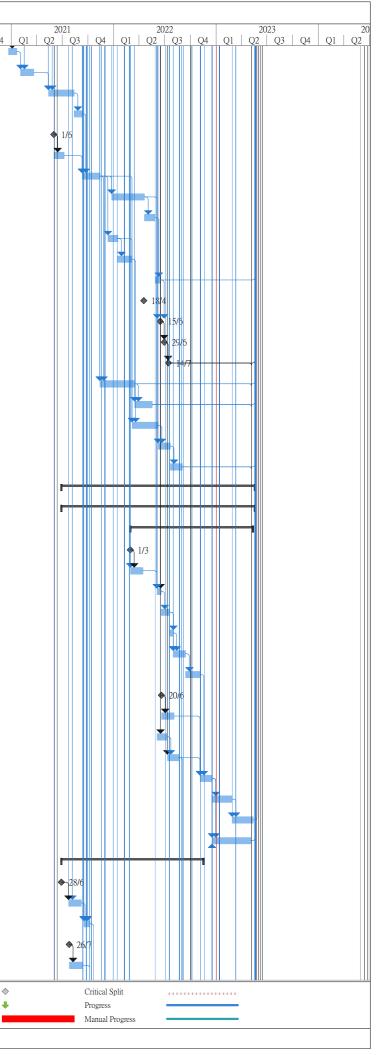
D Ta	isk Name	Duration		Remaining	Physical %	Early Start	Early Finish	Actual Start	Actual Finish	Late Start	Late Finish	Total	TRA	Predecessors)20
1362	FSD Inspection		Duration 0 days	Duration 0 days	Complete 0%	Sat 29/4/23	Sat 29/4/23	NA	NA	Thu 11/5/23	Thu 11/5/23	Slack 8 days	0.5 days	1361FS+15 days	Q2	
1363	Issuance of FS Certificate		0 days	0 days	0%	Thu 18/5/23		NA	NA	Tue 30/5/23	Tue 30/5/23	8 days	0.5 days	1362FS+15 days		
		-			0%					Wed 11/1/23	Mon 29/5/23		-	562,1351,548		
1364	Salt Water and Sewage Pumping Station: Landscaping hardworks and softworks	110 days		110 days		Wed 30/11/22		NA	NA			35 days				
1365	Salt Water and Sewage Pumping Station: Planting Works	110 days		110 days	0%		Sat 15/4/23		NA	Wed 11/1/23	Mon 29/5/23	35 days	2 days	562,1351,548		
1366	Section 6 Completion	0 days		0 days	0%	Tue 30/5/23		NA	NA	Tue 30/5/23	Tue 30/5/23	0 days		1350,1363,1364,		
1367	Seawater Intake Box Culvert (~169m)	647 days	0 days	647 days	0%	Fri 5/3/21	Mon 8/5/23	NA	NA	Fri 5/3/21	Tue 30/5/23	0 days				
1368	Access Date - Part 4	0 days	0 days	0 days	0%	Fri 5/3/21	Fri 5/3/21	NA	NA	Fri 5/3/21	Fri 5/3/21	0 days	0 days	4FS+645 days		
1369	Part 4 - CHA.0-79 (79m)	290 days	0 days	290 days	0%	Thu 19/5/22	Mon 8/5/23	NA	NA	Fri 10/6/22	Tue 30/5/23	18 days				
1370	CHA 0-24 Precast Section	34 days	0 days	34 days	0%	Thu 19/5/22	Tue 28/6/22	NA	NA	Fri 10/6/22	Wed 20/7/22	18 days				
1371	Temporary ELS & Excavation and Shoring Installation	24 days	0 days	24 days	0%	Thu 19/5/22	Thu 16/6/22	NA	NA	Fri 10/6/22	Fri 8/7/22	18 days	1 days	1384,1386,1238,		
1372	Install 3 nos. 8 m long precast units (2.5 days per unit)	10 days	0 days	10 days	0%	Fri 17/6/22	Tue 28/6/22	NA	NA	Sat 9/7/22	Wed 20/7/22	18 days	2.5 days	1371		
1373	CHA 24-79 (75m) (5 units)	256 days	0 days	256 days	0%	Wed 29/6/22	Mon 8/5/23	NA	NA	Thu 21/7/22	Tue 30/5/23	18 days				
1374	Thing Thing Main															
1375	Tangener 21.5 & httoore No.0 Mode M															
1376	Chi 2+ 70 (2m) Guilo Chi 2m Shou S															
1377	Imal lax in log neuratin (25 day ne and) Name Name <t< td=""></t<>															
1378				-												
1379	-			-	0%		Mon 8/5/23	NA		Mon 27/3/23				1378		
1380				-									, -			
1381													0 dave	1ES+731 days 11		
				-									0 uays	41'3+7'34 uays,1		
1382				-										1000		
1383				-									0.1			
1384				-												
1385	Box Culvert with Feeder Installation	47 days	0 days	47 days	0%	Mon 14/3/22	Wed 11/5/22	NA	NA	Mon 4/4/22	Wed 1/6/22	18 days	6 days	1384,1381,1391		
1386	Remove struts and backfilling	6 days	0 days	6 days	0%	Thu 12/5/22	Wed 18/5/22	NA	NA	Thu 2/6/22	Thu 9/6/22	18 days	1 days	1392,1385		
1387	Part 1 - CH89-165 (76m) 6 Units	193 days	0 days	193 days	0%	Mon 16/8/21	Fri 8/4/22	NA	NA	Mon 6/9/21	Wed 1/6/22	18 days				
1388	Temporary ELS & Excavation	25 days	0 days	25 days	0%	Mon 16/8/21	Mon 13/9/21	NA	NA	Mon 6/9/21	Wed 6/10/21	18 days	0.5 days	9,1147,1445		
1389	Unit 1 & 3 (41 days per unit)	44 days	0 days	44 days	0%	Tue 14/9/21	Sat 6/11/21	NA	NA	Thu 7/10/21	Sat 27/11/21	18 days	4 days	1388,418,570		
1390	Unit 2 & 4 (41 days per unit)	44 days	0 days	44 days	0%	Mon 8/11/21	Thu 30/12/21	NA	NA	Mon 29/11/21	Fri 21/1/22	18 days	4 days	1389		
1391	Unit 5 & 6 (41 days per unit)	44 days	0 days	44 days	0%	Fri 31/12/21	Thu 24/2/22	NA	NA	Sat 22/1/22	Thu 17/3/22	18 days	4 days	1390		
1392	Remove struts and backfilling	36 days	0 days	36 days	0%	Fri 25/2/22	Fri 8/4/22	NA	NA	Thu 21/4/22	Wed 1/6/22	43 days	1 days	1390,1391		
1393	Elevated Landscape Deck CH1920 - 2090	1178 day	s11.27 days	1166.74 days?	0%	Thu 16/5/19	Sat 29/4/23	Thu 16/5/19	NA	Thu 16/5/19	Wed 29/5/24	321 da				╞
1394	Agree Interface Coordination Plan with KL/2014/01 Contractor	14 days	14 days	0 days	100%	Thu 16/5/19	Fri 31/5/19	Thu 16/5/19	Fri 31/5/19	Thu 16/5/19	Fri 31/5/19	0 days	0 days			
1395	Ch1920-CH2060	1 day?	0 days	1 day?	0%	Sat 23/5/20	Sat 23/5/20	NA	NA	Wed 29/5/24	Wed 29/5/24	1467 d				
1396	Part 1 - CH1919-2020 (70m) 4 bays	181 days	0 days	181 days	0%	Mon 5/7/21	Thu 10/2/22	NA	NA	Wed 8/9/21	Mon 14/2/22	3 days				
1397				-				NA		Wed 8/9/21			1 day			
1398	Pier Temporary Works Design and Method Statement Comment & Approval	45 davs	0 davs	45 days	0%	Mon 5/7/21	Wed 18/8/21	NA	NA	Wed 8/9/21	Fri 22/10/21	65 davs	1 dav	1397		
1399				-												
1400				-									2 dav			
				-										517,1570,1573		
1401														1401		
1402	Approval			-												
1403				-										1400,1402		
1404	Statement Submission	0 days	0 days	-												
1405		45 days	0 days	45 days	0%	Wed 1/9/21	Fri 15/10/21	NA	NA	Sun 3/10/21	Tue 16/11/21	32 days	1 day	1404		
1406		25 days	0 days	25 days	0%	Sat 13/11/21	Sat 11/12/21	NA	NA	Wed 17/11/21	Wed 15/12/21	3 days	1 day	1403,625,623FS		
Title: Por	r 11 Prog with Progress	Summary		, 	Inactive M	lilestone 🔷	1	Duration-on	ly	1	Start-only		C	Exte	nal Mil	ie
as of 22-	-May-20 Split			0		-							3			
	Milestone	Inactive Tas	SK.		Manual Ta	ask		Manual Surr	imary		External Task	ks		Criti	al	_



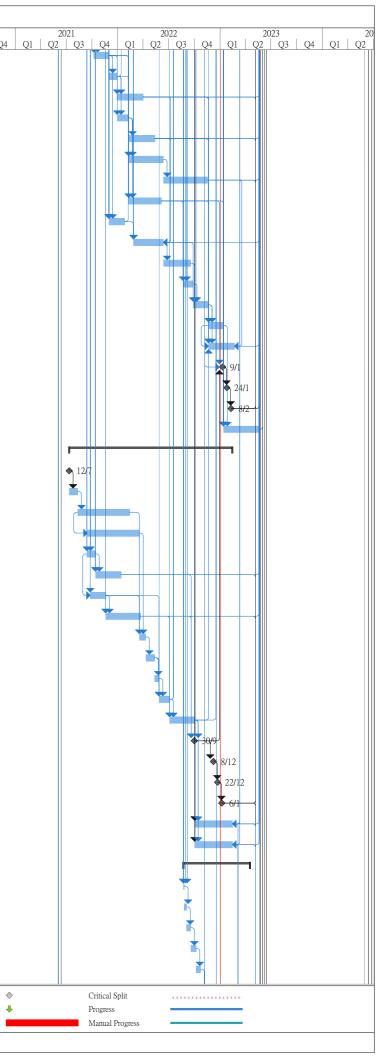
) (Task Name	Duration	Actual	Remaining	Physical %	Early Start	Early Finish	Actual Start	Actual Fini	sh Late Start	Late Finish	Total	TRA	Predecessors	2020	
1407	Secondary Upstand Beam		Duration	Duration 26 days	Complete 0%	Mon 13/12/21	Fri 14/1/22	NA	NA	Thu 16/12/21	Tue 18/1/22	Slack 3 days	1.5 day		Q2 Q	23 Q4
1407	Dismantle falsework		0 days	6 days	0%	Fri 4/2/22	Thu 10/2/22	NA	NA	Tue 8/2/22	Mon 14/2/22	3 days	0.5 day	1400 1406FS+14 days		
1403	Part 2A - CH2020-2050 (30m) 3 bays	74 days		74 days	0%	Sat 4/12/21	Mon 7/3/22	NA	NA	Mon 22/11/21	Tue 22/2/22	-11 days		14001/3+14 days		
1409	Pier (3sets x 3nos) within CH2007-2090. 1 team	12 days		12 days	0%	Sat 4/12/21 Sat 4/12/21	Fri 17/12/21		NA	Mon 22/11/21	Sat 4/12/21	-11 days		579,1087		
1410	Falsework erection			12 days	0%	Sat 4/12/21 Sat 18/12/21	Tue 4/1/22	NA	NA	Mon 6/12/21	Sat 4/12/21 Sat 18/12/21			1410		
		12 days		-	0%	Wed 5/1/22	Sat 5/2/22		NA			-11 days		1410		
1412	Deck (3 bays) 12d/bay	25 days		25 days				NA		Mon 20/12/21	Thu 20/1/22	-11 days				
1413	Secondary Upstand Beam	12 days		12 days	0%	Mon 7/2/22	Sat 19/2/22	NA	NA	Fri 21/1/22	Mon 7/2/22	-11 days		1412,1406,1407		
1414	Dismantle falsework		0 days	6 days	0%	Tue 1/3/22	Mon 7/3/22	NA	NA	Wed 16/2/22	Tue 22/2/22		0.5 day	1412,1413FS+7		
1415	Elevated Landscaped Deck CH2090 - Ch2109	989 days		989 days	0%	Wed 10/6/20		NA	NA	Wed 10/6/20	Thu 23/3/23	0 days				
1416	G.I. Works/Predrilling Works for Bored Pile No. LD-BP03	12 days		12 days	0%	Wed 10/6/20		NA	NA	Wed 10/6/20	Tue 23/6/20	0 days	1 day			
1417	Design Vertification for Bored Pile No. LD-BP02	30 days	0 days	30 days	0%	Wed 24/6/20	Thu 30/7/20	NA	NA	Wed 24/6/20	Thu 30/7/20	0 days	1 day	1416		
1418	CH2090: Bored Pile No. LD-BP02	34 days	0 days	34 days	0%	Fri 31/7/20	Tue 8/9/20	NA	NA	Fri 31/7/20	Tue 8/9/20	0 days	1 day	1416,1417		
1419	Tripit	12 days	0 days	12 days	0%	Wed 24/6/20	Thu 9/7/20	NA	NA	Wed 24/6/20	Thu 9/7/20	0 days	1 day		•	
1420	Diversion of existing watermain and CLP cable (Tentative)	52 days	0 days	52 days	0%	Fri 10/7/20	Tue 8/9/20	NA	NA	Fri 10/7/20	Tue 8/9/20	0 days	15 day	1419		■┼╢
1421	G.I. Works/Predrilling Works for Bored Pile No. LD-BP03	12 days	0 days	12 days	0%	Thu 2/7/20	Wed 15/7/20	NA	NA	Wed 15/7/20	Tue 28/7/20	11 days	1 day			
1422	Design Vertification for Bored Pile No. LD-BP03	36 days	0 days	36 days	0%	Thu 16/7/20	Wed 26/8/20	NA	NA	Wed 29/7/20	Tue 8/9/20	11 days	1 day	1421		┺┨║║
1423	CH2069: Bored Pile No. LD-BP03	30 days	0 days	30 days	0%	Wed 9/9/20	Thu 15/10/20	NA	NA	Wed 9/9/20	Thu 15/10/20	0 days	1 day	1418,314FF,142		*
1424	Design Vertification for Bored Pile No. LD-BP01	36 days	0 days	36 days	0%	Mon 24/8/20	Tue 6/10/20	NA	NA	Sat 12/9/20	Tue 27/10/20	17 days	1 day			
1425	CH2109: Bored Pile No. LD-BP01	30 days	0 days	30 days	0%	Fri 16/10/20	Fri 20/11/20	NA	NA	Wed 28/10/20	Tue 1/12/20	9 days	1 day	1423,314,1420,1		
1426	Pile testing	43 days	0 days	43 days	0%	Sat 21/11/20	Wed 13/1/21	NA	NA	Wed 2/12/20	Sat 23/1/21	9 days	1 day	1423,1425		
1427	Elevated Landscape Deck - Pilecap with ELS Temp. Works Design and Metho Statement Submission	d 0 days	0 days	0 days	0%	Mon 2/11/20	Mon 2/11/20	NA	NA	Fri 11/12/20	Fri 11/12/20	39 days	1.5 day			
1428	Elevated Landscape Deck - Pilecap with ELS Temp. Works Design and Metho Statement Comment & Appraoval	d 45 days	0 days	45 days	0%	Mon 2/11/20	Wed 16/12/20	NA	NA	Fri 11/12/20	Sun 24/1/21	39 days	1.5 day	1427		
1429	CH2090: Pilecap with ELS	37 days	0 days	37 days	0%	Thu 14/1/21	Mon 1/3/21	NA	NA	Mon 25/1/21	Thu 11/3/21	9 days	1 day	1425,1426,1428		
1430	CH2069: Pilecap with ELS	37 days	0 days	37 days	0%	Tue 2/3/21	Fri 16/4/21	NA	NA	Fri 12/3/21	Tue 27/4/21	9 days	1 day	1429		
1431	CH2109: Pilecap with ELS	37 days	0 days	37 days	0%	Tue 2/3/21	Fri 16/4/21	NA	NA	Fri 12/3/21	Tue 27/4/21	9 days	1 day	1430SS		
1432	Elevated Landscape Deck - Temp. Works Design and Method Statement	0 days	0 days	0 days	0%	Mon 4/1/21	Mon 4/1/21	NA	NA	Sun 14/3/21	Sun 14/3/21	69 days	0.5 day			
1433	Submission Elevated Landscape Deck - Temp. Works Design and Method Statement	45 days	0 days	45 days	0%	Mon 4/1/21	Wed 17/2/21	NA	NA	Sun 14/3/21	Tue 27/4/21	69 days	0.5 day	1432		
1434	Comment & Appraoval Pier (3sets x 3nos) within CH2060-2119. 1 team, 1 no./day	48 days	0 days	48 days	0%	Sat 17/4/21	Tue 15/6/21	NA	NA	Wed 28/4/21	Fri 25/6/21	9 days	3 day	1433,579,1425,1		
1435	Falsework erection	7 days	0 days	7 days	0%	Wed 16/6/21	Wed 23/6/21	NA	NA	Sat 26/6/21	Mon 5/7/21	9 days	0 days	1434		
1436	Deck (3 bays) 12d/bay	39 days	0 days	39 days	0%	Thu 24/6/21	Mon 9/8/21	NA	NA	Tue 6/7/21	Thu 19/8/21	9 days	3 day	1435,715,625,62		
1437	Secondary Upstand Beam	39 days	0 days	39 days	0%	Tue 10/8/21	Fri 24/9/21	NA	NA	Fri 20/8/21	Wed 6/10/21	9 days	1.5 day	1436		
1438	Dismantle falsework	9 days	0 days	9 days	0%	Wed 13/10/21	Sat 23/10/21	NA	NA	Mon 25/10/21	Wed 3/11/21	9 days	1 day	1436FS+14 days		
1439	Install External Cladding	105 days	-	105 days	0%	Tue 8/3/22	Thu 14/7/22		NA	Wed 6/4/22	Thu 11/8/22	24 days		1438,1408,1414		
1440	Elevated Landscaped Deck: Hard Landscaping Works	110 days		110 days	0%	Fri 14/10/22	Thu 23/2/23		NA	Fri 11/11/22	Thu 23/3/23	24 days		1439FS+75 days		
1441	Elevated Landscaped Deck: Soft Landscaping Works	110 days	-	110 days	0%	Fri 14/10/22	Thu 23/2/23		NA	Fri 11/11/22	Thu 23/3/23	24 days		1439FS+75 days		
1442	Elevated Landscaped Deck: Planting Works	110 days		110 days	0%	Fri 14/10/22	Thu 23/2/23		NA	Fri 11/11/22	Thu 23/3/23	24 days		1439FS+75 days		
1442	Installation of Glass Balustrade			52 days	0%	Fri 24/2/23	Sat 29/4/23		NA	Fri 24/3/23	Tue 30/5/23	24 days		1437,1407,1413,		
		52 days											0 days	1457,1407,1415,		
1444	Part 2A - Lift LT1 & LT2 (Landscaped Deck)	671 days	-	671 days	0%	Tue 2/6/20	Wed 31/8/22		NA	Tue 2/6/20	Tue 30/5/23	0 days	0.1	450,260,1		
1445	Access Date - Part 2A,2C		0 days	0 days	0%	Tue 2/6/20	Tue 2/6/20	NA	NA	Tue 2/6/20	Tue 2/6/20	0 days	0 days	4FS+369 days		
1446	TTA Implementation		0 days	3 days	0%	Fri 31/7/20	Mon 3/8/20	NA	NA	Wed 9/6/21	Fri 11/6/21	254 days				
1447	Utilities Diversion (Towngas and Telecom Cable) (tentative)	150 days		150 days	0%	Tue 4/8/20	Mon 1/2/21		NA	Sat 12/6/21	Thu 9/12/21	254 days		1445,1446		
1448	G.I. works	18 days		18 days	0%	Tue 2/2/21	Thu 25/2/21		NA	Fri 10/12/21	Mon 3/1/22	254 days		1445,1447		
1449	Design Vertification	25 days	0 days	25 days	0%	Fri 26/2/21	Fri 26/3/21	NA	NA	Tue 4/1/22	Fri 4/2/22	254 days		1448		
1450	Lift Pilecap & ELS- Temp. Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Mon 21/12/20	Mon 21/12/20	NA	NA	Tue 16/11/21	Tue 16/11/21	330 days	0.5 day			
Title: R/	ev.11 Prog with Progress	Summary			Inactive !	Vilestone 🔷		Duration-or	lly		Start-only		C	Extem	al Milestor	ne «
	2-May-20	Project Sum			Inactive S				nmary Rollup		Finish-only		3	Deadli		•
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as UI 22-1	Milestone	Inactive Task	I.		Man	ual Task		Manual S	ummary		External Task	IS .		Critic	al
tle: Rev. s of 22-I	I I Prog with Progress	Summary Project Sumr	nary			tive Milestone 🔶 tive Summary		Duration-	only ummary Rollup		Start-only Finish-only		C]	Exter	nal Milest line
	Appraoval						10,7/21								
194	Structure - Temp. Works Design and Method Statement Submission Structure - Temp. Works Design and Method Statement Comment &	0 days 47 days		0 days 47 days	0%	Mon 26/7/21 Mon 26/7/21	Mon 26/7/21 Fri 10/9/21	NA	NA	Fri 3/9/21 Fri 3/9/21	Fri 3/9/21 Tue 19/10/21	39 days 39 days	-	1494	
93	Footing Structure Temp Works Design and Mathed Statement Submission	16 days		16 days	0%	Thu 16/9/21	Wed 6/10/21		NA	Wed 29/9/21	Tue 19/10/21		-	987,611,604,618	
2	Foundation - Temp. Works Design and Method Statement Comment & Appraval	45 days		45 days	0%	Sat 24/7/21		NA	NA	Sun 15/8/21	Tue 28/9/21	22 days	-	1491,639,646	
1	Foundation - Temp. Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Mon 28/6/21	Mon 28/6/21	NA	NA	Sun 15/8/21	Sun 15/8/21	48 days	0.5 days		
0	Toilet	416 days	0 days	416 days	0%	Mon 28/6/21	Wed 16/11/22	NA	NA	Sun 15/8/21	Fri 24/2/23	41 days			
9	E&M and ABWF works, Landscaping and paving works	110 days	0 days	110 days	0%	Sat 17/12/22	Thu 4/5/23	NA	NA	Thu 12/1/23	Tue 30/5/23	21 days	3 days	1528,717,1486	
38	LT5: Lift installation with T&C and Statutory Inspection	60 days	0 days	60 days	0%	Mon 27/2/23	Fri 12/5/23	NA	NA	Wed 15/3/23	Tue 30/5/23	14 days	1 day	713,1487	
87	Observation Deck: Superstructure with Lift Core and Staircase work	72 days	0 days	72 days	0%	Sat 17/12/22	Sun 26/2/23	NA	NA	Mon 2/1/23	Tue 14/3/23	16 days	1 day	1486	
86	Observation Deck: Substructure with Excavation/ELS works	36 days	0 days	36 days	0%	Sat 5/11/22	Fri 16/12/22	NA	NA	Sat 19/11/22	Sat 31/12/22	12 days	1 day	163,506,1483,14	
85	Pipe laying works, Cable Laying and Drawpits	36 days	0 days	36 days	0%	Mon 11/7/22	Sat 20/8/22	NA	NA	Thu 21/7/22	Wed 31/8/22	9 days	5 days	15,1484	
84	Comment & Appraoval Trech Excavation for Pipe Laying Works	30 days	0 days	30 days	0%	Sat 4/6/22	Sat 9/7/22	NA	NA	Wed 15/6/22	Wed 20/7/22	9 days	2 days	15	
183	Submission Structure & Lift Core - Temp. Works Design and Method Statement	45 days	0 days	45 days	0%	Mon 20/6/22	Wed 3/8/22	NA	NA	Wed 5/10/22	Fri 18/11/22	107 days	0.5 day	1482	
182	Structure & Lift Core - Temp. Works Design and Method Statement	0 days	0 days	0 days	0%	Mon 20/6/22	Mon 20/6/22	NA	NA	Wed 5/10/22	Wed 5/10/22	107 days	0.5 day		
481	Pile Testing	43 days	0 days	43 days	0%	Wed 14/9/22	Fri 4/11/22	NA	NA	Wed 28/9/22	Fri 18/11/22	12 days	1 day	1480	
180	Socket H-pile Installation	37 days		37 days	0%	Mon 1/8/22	Tue 13/9/22	NA	NA	Mon 15/8/22	Tue 27/9/22	12 days	2 days	367,1155,726,14	
479	Predrilling works for Socket H- pile	12 days		12 days	0%	Tue 19/7/22	Sat 30/7/22	NA	NA	Wed 3/8/22	Sun 14/8/22	15 days		1478	
178	Design Vertification	25 days		25 days	0%	Sat 18/6/22	Mon 18/7/22		NA	Tue 5/7/22	Tue 2/8/22	13 days		1477	
177	Appraval G.I. works for LT5	12 days	-	12 days	0%		Fri 17/6/22		NA				-	1447,611,604,15	
76	Foundation - Temp. Works Design and Method Statement Submission	45 days		45 days	0%	Tue 1/3/22	Thu 14/4/22		NA	Fri 6/5/22	Sun 19/6/22	66 days	-	1475,639,646	
75	Foundation - Temp, Works Design and Method Statement Submission	0 days	-	0 days	0%	Tue 1/3/22	Tue 1/3/22	NA	NA	Fri 6/5/22	Fri 6/5/22	66 days	0.5 day		
.73	Open Space & Promenade (From Northern End - CH1720) Observation Deck	564 days 358 days		564 days 358 days	0%	Mon 28/6/21 Tue 1/3/22	Thu 18/5/23 Fri 12/5/23	NA	NA	Sun 15/8/21 Fri 6/5/22	Tue 30/5/23	9 days 14 days			
72 73	Open Space & Promenade Open Space & Promenade (From Northern End., CH1720)	564 days	-	564 days	0%	Mon 28/6/21	Thu 18/5/23			Sun 1/8/21	Tue 30/5/23 Tue 30/5/23	9 days			
	L12d Roadworks and Pedestrian	36 days		36 days	0%	Thu 21/7/22	Wed 31/8/22		NA	Mon 17/4/23		220 days	1 uay	1470	
70	, 0	-	-	-	0%						Tue 30/5/23		-	· ·	
69 70	L12d Underground Drainage and Utilities Laying L12d Roadworks and Pedestrian, with Light Pole	75 days 36 days		75 days 36 days	0%	Mon 7/3/22 Wed 8/6/22	Tue 7/6/22 Wed 20/7/22	NA	NA	Tue 29/11/22 Wed 1/3/23	Tue 28/2/23 Sat 15/4/23	220 days 220 days		1457,1460,1461	
68	Finishing and E&M Works	50 days		50 days	0%	Wed 16/3/22	Tue 17/5/22		NA	Mon 27/3/23	Tue 30/5/23	309 days	-	1467,367	
67	Staircase ST1	100 days		100 days	0%	Fri 12/11/21	Tue 15/3/22		NA	Fri 25/11/22	Sat 25/3/23	309 days		587,367,1457	
466	Issuance of Lift Use Permit	-	0 days	0 days	0%	Thu 14/7/22	Thu 14/7/22		NA	Tue 30/5/23	Tue 30/5/23	320 days	-	1465FS+15 days	
465	EMSD Lift Inspection		0 days	0 days	0%	Wed 29/6/22	Wed 29/6/22		NA	Tue 16/5/23	Tue 16/5/23	320 days	-	1464FS+14 days	
464	EMSD Submission Form 5 for Lift Inspection		0 days	0 days		Wed 15/6/22			NA	Tue 2/5/23	Tue 2/5/23	320 days	-	1458,1462	
1463	CLP Meter Installation		0 days	0 days	0%	Mon 18/4/22	Mon 18/4/22 Wed 15/6/22		NA	Mon 18/4/22	Mon 18/4/22	0 days		1459 1460	
462	Testing & commissioning	15 days		15 days	0%	Sat 28/5/22	Wed 15/6/22		NA	Thu 13/4/23	Sat 29/4/23	261 days	-	1459	
461	Parapet Installation and Finishing Works	40 days		40 days	0%	Sat 15/1/22	Sat 5/3/22	NA	NA	Thu 13/10/22			-	1460	
460	Louvers and Glazing Installation	27 days	-	27 days	0%	Sat 11/12/21		NA	NA	Thu 8/9/22		220 days		1457FS+25 days	
1459	E & M installation	33 days	0 days	33 days	0%	Wed 20/4/22	Fri 27/5/22	NA	NA	Wed 1/3/23	Wed 12/4/23	261 days		1458	
1458	Lift installation (LT1 & LT2)	90 days	0 days	90 days	0%	Fri 24/12/21	Tue 19/4/22	NA	NA	Fri 11/11/22	Tue 28/2/23	261 days	1 day	1457FS+36 days	
1457	Lift Tower: Falsework & Formwork Erection, Rebar Fixing & Concreting	63 days	0 days	63 days	0%	Fri 10/9/21	Thu 11/11/21	NA	NA	Wed 8/6/22	Tue 9/8/22	271 days	3 days	1454,1157,1456	
456	Lift Structure - Temp. Works Design and Method Statement Comment & Appraoval	l 36 days	0 days	36 days	0%	Tue 1/6/21	Tue 6/7/21	NA	NA	Tue 3/5/22	Tue 7/6/22	336 days	0.5 day	1455	
455	Lift Structure - Temp. Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Tue 1/6/21	Tue 1/6/21	NA	NA	Tue 3/5/22	Tue 3/5/22	336 days	0.5 day		
454	Sheepile Extraction & Backilling	25 days	0 days	25 days	0%	Thu 12/8/21	Thu 9/9/21	NA	NA	Mon 9/5/22	Tue 7/6/22	218 days	1 day	1453	
453	Footing Construction	75 days	0 days	75 days	0%	Thu 13/5/21	Wed 11/8/21	NA	NA	Sat 5/2/22	Sat 7/5/22	218 days	2 days	1452,1449,587	
452	**	38 days	0 days	38 days	0%	Tue 2/2/21	Sat 20/3/21	NA	NA	Thu 16/12/21	Fri 4/2/22	259 days	2 days	1447,1451	
451	Lift Pilecap and ELS - Temp. Works Foundation Design and Method Statement Comment & Appraoval	30 days		30 days	0%	Mon 21/12/20	Tue 19/1/21	NA	NA	Tue 16/11/21	Wed 15/12/21	330 days	0.5 day	1450	Q2
			Duration	Duration	Complete	8		1				Slack			

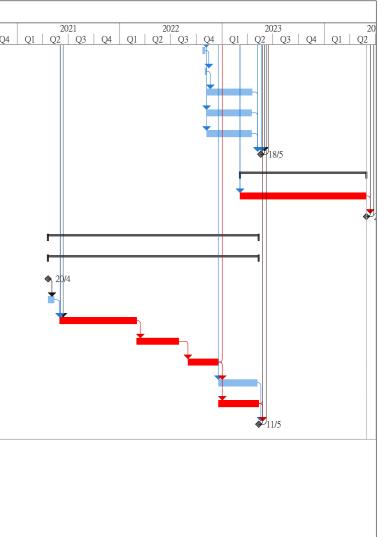


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) T	ask Name	Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish			sh Late Start	Late Finish	Total TRA Slack	Predecessors	2 Q2
1496	Structure work	45 days	0 days	45 days	0%	Thu 7/10/21	Mon 29/11/21	NA	NA	Wed 20/10/21	Fri 10/12/21	10 days 0.5 days	1493,506,1495	
1497	MIC toilet unit	24 days	0 days	24 days	0%	Tue 30/11/21	Wed 29/12/21	NA	NA	Sat 11/12/21	Tue 11/1/22	10 days 0.5 days	1496	
1498	MIC toilet unit: E&M and ABWF works	75 days	0 days	75 days	0%	Thu 30/12/21	Thu 31/3/22	NA	NA	Wed 23/2/22	Wed 25/5/22	43 days 3 days	1497,717	
1499	Observation Tower Construction	31 days	0 days	31 days	0%	Thu 30/12/21	Tue 8/2/22	NA	NA	Wed 19/1/22	Sat 26/2/22	16 days 1 day	1496,1497	
1500	Observation Tower: Building Works and E&M Works	76 days	0 days	76 days	0%	Wed 9/2/22	Thu 12/5/22	NA	NA	Mon 28/2/22	Tue 31/5/22	16 days 1 day	1499	
1501	Refuse Collection Block and Back of House: Structure Works	101 days	0 days	101 days	0%	Wed 9/2/22	Sat 11/6/22	NA	NA	Fri 20/5/22	Sat 17/9/22	82 days 1 day	1496,1497,1499	
1502	Refuse Collection Block and Back of House: Building Works and E&M Works	131 days	0 days	131 days	0%	Mon 13/6/22	Wed 16/11/22	NA	NA	Mon 19/9/22	Fri 24/2/23	82 days 1 day	1501	
1503	Amphitheater	95 days	0 days	95 days	0%	Wed 9/2/22	Sat 4/6/22	NA	NA	Wed 11/5/22	Wed 31/8/22	74 days 5 days	1496,639,646,14	
1504	Fast food (Light Refreshment) kiosk deck	45 days	0 days	45 days	0%	Tue 30/11/21	Mon 24/1/22	NA	NA	Thu 20/1/22	Wed 16/3/22	41 days 0.5 days	611,1496,604,61	1
1505	Fast food (Light Refreshment) Kiosk: Building Works and E&M Works	86 days	0 days	86 days	0%	Sat 26/2/22	Sat 11/6/22	NA	NA	Thu 17/3/22	Thu 30/6/22	16 days 1 day	1504,639,646,14	
1506	Fitness Ground Lawn & Water Play Plaza	82 days	0 days	82 days	0%	Mon 13/6/22	Sat 17/9/22	NA	NA	Sat 2/7/22	Sat 8/10/22	16 days 1 day	days,1500FF+25 1505	
1507	Stepped Stage and Seating & Back of House Facility (under Bridge D3)	30 days	0 days	30 days	0%	Mon 22/8/22	Mon 26/9/22	NA	NA	Thu 1/9/22	Sat 8/10/22	9 days 0.5 days	1503,1485	
1508	Trim and form formation level within Open Space & Promenade area	45 days	0 days	45 days	0%	Tue 27/9/22	Sat 19/11/22	NA	NA	Mon 10/10/22	Wed 30/11/22	9 days 0.5 days	1507,1505,1506	
1509	Paving work & Hard Landscaping Works	45 days	0 days	45 days	0%	Mon 21/11/22	Thu 12/1/23	NA	NA	Thu 1/12/22	Thu 26/1/23	9 days 2 days	1508,1500,1498	
1510	ABWF, E&M work and street furniture	75 days		75 days	0%	Mon 21/11/22			NA	Sat 25/2/23	Tue 30/5/23	79 days 2 days	1508,1509SS,15	
1511	FSD Form 501 Submission for FS Inspection	0 days		0 days	0%	Mon 9/1/23	Mon 9/1/23		NA	Mon 1/5/23	Mon 1/5/23	111 days 0.5 day	1510SS+50 days	
1512	FSD Inspection	0 days		0 days	0%	Tue 24/1/23	Tue 24/1/23		NA	Tue 16/5/23	Tue 16/5/23	111 days 0.5 day	1511FS+15 days	
1512	Issuance of FS Certificate	0 days		0 days	0%	Wed 8/2/23		NA	NA	Tue 30/5/23	Tue 30/5/23	111 days 0.5 day	1512FS+15 days	
1515	Landscaping works and Planting works	100 days		100 days	0%	Fri 13/1/23	Thu 18/5/23		NA	Fri 27/1/23	Tue 30/5/23	9 days 4 days	1509,668,1503,6	
													1509,000,1505,0	
1515	Open Space & Promenade (From CH1720 - South End)	477 days		477 days	0%	Mon 12/7/21	Mon 13/2/23		NA	Sun 1/8/21	Tue 30/5/23	18 days		
1516	Modification Seawall - Temp. Works Design and Method Statement Submissi			0 days	0%	Mon 12/7/21	Mon 12/7/21		NA	Sun 1/8/21	Sun 1/8/21	20 days 1 day	1516	
1517	Modification Seawall - Temp. Works Design and Method Statement Commen Appraoval	-		30 days	0%	Mon 12/7/21		NA	NA	Sun 1/8/21	Mon 30/8/21	20 days 2 days	1516	
1518	Modification (Seawall) CH1720-1820	150 days		150 days	0%	Wed 11/8/21		NA	NA	Tue 31/8/21	Thu 3/3/22	17 days 1 day	1517	
1519	Modification (Seawall) CH1820-1920	150 days	0 days	150 days	0%	Wed 15/9/21	Fri 18/3/22	NA	NA	Thu 7/10/21	Fri 8/4/22	17 days 1 day	1518SS+30 days	
1520	Temporary toilet	24 days	0 days	24 days	0%	Mon 13/9/21	Tue 12/10/21	NA	NA	Fri 14/1/22	Mon 14/2/22	100 days 0.5 days	506,655,660	
1521	Temporary Toilet: Building Works and E&M Works	75 days	0 days	75 days	0%	Wed 13/10/21	Wed 12/1/22	NA	NA	Sat 28/1/23	Sat 29/4/23	385 days 0.5 day	1520,655,660	1
1522	Temporary Management Office: Structure Works	45 days	0 days	45 days	0%	Sat 25/9/21	Thu 18/11/21	NA	NA	Wed 26/1/22	Tue 22/3/22	100 days 0.5 days	1520SS+10 days	
1523	Temporary Management Office: Building Works and E&M Works	100 days	0 days	100 days	0%	Fri 19/11/21	Tue 22/3/22	NA	NA	Wed 23/3/22	Sat 23/7/22	100 days 0.5 day	1522,655,660	
1524	Floating Stage Concrete structure	18 days	0 days	18 days	0%	Sat 19/3/22	Sat 9/4/22	NA	NA	Sat 9/4/22	Tue 3/5/22	17 days 0 days	1519,1518,1522	
1525	Stepped Seating at Southern End	24 days	0 days	24 days	0%	Mon 11/4/22	Wed 11/5/22	NA	NA	Wed 4/5/22	Tue 31/5/22	17 days 0.5 days	1524	
1526	Trim and form formation level within Open Space & Promenade area	14 days	0 days	14 days	0%	Thu 12/5/22	Fri 27/5/22	NA	NA	Wed 1/6/22	Fri 17/6/22	17 days 0 days	1525	1
1527	Paving work and Landscaping Works	30 days	0 days	30 days	0%	Sat 28/5/22	Mon 4/7/22	NA	NA	Sat 18/6/22	Sat 23/7/22	17 days 0.5 days	1526,1522,1525	1
1528	ABWF, E&M work and street furniture	75 days	0 days	75 days	0%	Tue 5/7/22	Fri 30/9/22	NA	NA	Mon 25/7/22	Sat 22/10/22	17 days 1 day	1527,717,1523	
1529	CLP Meter Installation	0 days	0 days	0 days	0%	Fri 30/9/22	Fri 30/9/22	NA	NA	Mon 1/5/23	Mon 1/5/23	212 days 0.5 day	1528,1521,1523	1
1530	FSD Form 501 Submission for FS Inspection	0 days	0 days	0 days	0%	Thu 8/12/22	Thu 8/12/22	NA	NA	Mon 1/5/23	Mon 1/5/23	144 days 0.5 day	1529	1
1531	FSD Inspection	0 days	0 days	0 days	0%	Thu 22/12/22	Thu 22/12/22		NA	Tue 16/5/23	Tue 16/5/23	144 days 0.5 day	1530FS+15 days	
1532	Issuance of FS Certificate	0 days		0 days	0%	Fri 6/1/23	Fri 6/1/23	NA	NA	Tue 30/5/23	Tue 30/5/23	144 days 0.5 day	1531FS+15 days	
1533	Open Space & Promenade: Landscaping works	110 days		110 days	0%	Mon 3/10/22	Mon 13/2/23		NA	Mon 24/10/22	Sat 4/3/23	17 days 5 days	1528,668,1243F	
1534	Open Space & Promenade: Planting works	110 days		110 days	0%	Mon 3/10/22	Mon 13/2/23		NA	Mon 24/10/22	Sat 4/3/23	17 days 5 days	1528,668,1243F	
1535	Part 1, 2A, 2B - Road L12	193 days		193 days	0%	Tue 23/8/22	Mon 17/4/23		NA	Thu 6/10/22	Tue 30/5/23	35 days 0.5 day	1520,000,12431	
1535				3 days	0%	Tue 23/8/22	Thu 25/8/22			Thu 6/10/22	Sat 8/10/22		1274,1283,1296	
	Trim road formation	3 days							NA			35 days 1 day		
1537	Lay sub base		0 days	7 days	0%	Fri 26/8/22	Fri 2/9/22	NA	NA	Mon 10/10/22	Mon 17/10/22	35 days 1 day	1536	
1538	Lay kerb	12 days		12 days	0%	Sat 3/9/22		NA	NA	Tue 18/10/22		35 days 1 day	1537	
1539	Construct pedestrian street/ footpath	14 days	0 days	14 days	0%	Mon 19/9/22	Thu 6/10/22	NA	NA	Tue 1/11/22	Wed 16/11/22	35 days 1 day	1538	
1540	Install central median	14 days	0 days	14 days	0%	Fri 7/10/22	Sat 22/10/22	NA	NA	Thu 17/11/22	Fri 2/12/22	35 days 1 day	1539	1
Litle: Ro	v.11 Prog with Progress Task	Summary		-	Inactive	Milestone 🔷		Durati	on-only	1	Start-only	C	Exte	ernal M
	P-May-20	Project Sum		1		Summary			al Summary Rollup		Finish-only	3		dline
	Milestone	Inactive Tas	sk		Manual	ľask		Manua	al Summary		External Task	IS .	Crit	cal



D	Task Name	Duration	Actual Duration	Remaining Duration	Physical % Complete	Early Start	Early Finish	Actual Start	Actual Fin	ish Late Start	Late Finish	Total Slack	TRA	Predecessors)20 Q3
1541	Concrete infill between profile barrier	7 days	0 days	7 days	0%	Mon 24/10/22	Mon 31/10/22	NA	NA	Sat 3/12/22	Sat 10/12/22	35 days	0 days	1540	
1542	Road pavement	5 days	0 days	5 days	0%	Tue 1/11/22	Sat 5/11/22	NA	NA	Mon 12/12/22	Fri 16/12/22	35 days	0 days	1541	
1543	Install street furniture (Part 1, 2A, 2B - Road L12)	131 days	0 days	131 days	0%	Mon 7/11/22	Mon 17/4/23	NA	NA	Sat 17/12/22	Tue 30/5/23	35 days	6 days	1542	
1544	Planting Works for Underpass, South Depress Road and At-Grade Road	130 days	0 days	130 days	0%	Mon 7/11/22	Sat 15/4/23	NA	NA	Mon 19/12/22	Tue 30/5/23	36 days	10 days	668	
1545	Landscaping Works for Underpass, South Depress Road and At-Grade	130 days	0 days	130 days	0%	Mon 7/11/22	Sat 15/4/23	NA	NA	Mon 19/12/22	Tue 30/5/23	36 days	10 days	668	
1546	Planned Completion for Section 6	0 days	0 days	0 days	0%	Thu 18/5/23	Thu 18/5/23	NA	NA	Tue 30/5/23	Tue 30/5/23	9 days	0 days	1533,1543,1532,	
1547	Section 7	365 days	0 days	365 days	0%	Mon 6/3/23	Wed 29/5/24	NA	NA	Mon 6/3/23	Wed 29/5/24	0 days			
1548	Establishment work for landscape softwork	365 days	0 days	365 days	0%	Mon 6/3/23	Wed 29/5/24	NA	NA	Mon 6/3/23	Wed 29/5/24	0 days	10 days	1533,1534	
1549	Planned Completion for Section 7	0 days	0 days	0 days	0%	Wed 29/5/24	Wed 29/5/24	NA	NA	Wed 29/5/24	Wed 29/5/24	0 days		1548,6	
1550	Section 10 (Subject to Excision)	614 days	0 days	614 days	0%	Tue 20/4/21	Thu 11/5/23	NA	NA	Mon 10/5/21	Tue 30/5/23	15 days			
1551	Decking for Underpass (Rd L14)	614 days	0 days	614 days	0%	Tue 20/4/21	Thu 11/5/23	NA	NA	Mon 10/5/21	Tue 30/5/23	15 days			
1552	Deck for Underpass (Road L14) - Temp. Works Design and Method Statement Submission	0 days	0 days	0 days	0%	Tue 20/4/21	Tue 20/4/21	NA	NA	Mon 10/5/21	Mon 10/5/21	20 days	0.5 day		
1553	Deck for Underpass (Road L14) - Temp. Works Design and Method Statement Comment & Appraval	21 days	0 days	21 days	0%	Tue 20/4/21	Mon 10/5/21	NA	NA	Mon 10/5/21	Sun 30/5/21	20 days	0.5 day	1552	
1554	Support along U-through	225 days	0 days	225 days	0%	Mon 31/5/21	Tue 1/3/22	NA	NA	Mon 31/5/21	Tue 1/3/22	0 days	10 days	23,185,1553,192	
1555	Plinth installation along support	123 days	0 days	123 days	0%	Wed 2/3/22	Fri 29/7/22	NA	NA	Wed 2/3/22	Fri 29/7/22	0 days	6 days	1554	
1556	Placing of beam along underpass	90 days	0 days	90 days	0%	Thu 1/9/22	Sun 18/12/22	NA	NA	Thu 1/9/22	Mon 19/12/22	0 days	4 days	1555FS+28 days	
1557	Finishing and E&M Works	110 days	0 days	110 days	0%	Mon 19/12/22	Fri 5/5/23	NA	NA	Thu 12/1/23	Tue 30/5/23	20 days		1556,279	
1558	Cover-up (Roof)	115 days	0 days	115 days	0%	Mon 19/12/22	Thu 11/5/23	NA	NA	Mon 19/12/22	Thu 11/5/23	0 days	5 days	1556	
1559	Planned Completion for Section 10	0 days	0 days	0 days	0%	Thu 11/5/23	Thu 11/5/23	NA	NA	Tue 30/5/23	Tue 30/5/23	19 days	0.5 days	1558,158,1557	

Title: Rev.11 Prog with Progress as of 22-May-20	Task Split Milestone	•	Summary Project Summary Inactive Task	Inactive Milestone Inactive Summary Manual Task	¢	Duration-only Manual Summary Rollu Manual Summary	p 1	Start-only Finish-only External Tasks	с Э	External Milestone Deadline Critical	
						Page 36 of 36					_



Critical Split Progress Manual Progress

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Appendix C – Environmental monitoring schedules

Contract No. EDO 15/2018 Environmental Monitoring at Kai Tak Development Stage 4 Infrastructure at the former runway and south apron Environmental Monitoring and Weekly Site Inspection Schedule for April 2022

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4 24-hr TSP: AM3, AM7 1-hr X3 TSP: AM3, AM4(A), AM7 30-min Noise: M11, M12	5	6	7 Weekly Site Inspection	8	9 24-hr TSP: AM3, AM7 1-hr X3 TSP: AM3, AM4(A), AM7
10	11	12	13	14 Weekly Site Inspection + SSMC meeting 24-hr TSP: AM3, AM7 1-hr X3 TSP: AM3, AM4(A), AM7 30-min Noise: M11, M12	15	16
17	18	19	20 24-hr TSP: AM3, AM7 1-hr X3 TSP: AM3, AM4(A), AM7 30-min Noise: M11, M12	21 Weekly Site Inspection	22	23
24	25 24-hr TSP: AM3, AM7 1-hr X3 TSP: AM3, AM4(A), AM7 30-min Noise: M11, M12	26	27	28 Weekly Site Inspection	29	30 24-hr TSP: AM3, AM7 1-hr X3 TSP: AM3, AM4(A), AM7

April 2022

NOTE:

1) Due to the outbreak of COVID 19, AM4(A) did not open to public starting from 23 February 2022 and ET cannot conduct impact monitoring on roof top. 1-hour TSP monitoring will be conducted on the ground floor outside AM4(A) with facing to the Project Site while no 24-hr TSP monitoring will be conducted in the reporting month because of the access limitation unit the resume of AM4(A).

2) Due to the outbreak of COVID 19, M11 did not open to public starting from 23 February 2022 and ET could not conduct impact monitoring on roof top. Impact monitoring will be conducted on the ground floor outside M11 with facing to the Project Site because of the access limitation unit the resume of M11.

Air Quality Monitoring Station

AM3 - Sky Tower AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop AM7 - Hong Kong Children's Hospital

Noise Quality Monitoring Station

M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop M12 - Hong Kong Children's Hospital

Contract No. EDO 15/2018 Environmental Monitoring at Kai Tak Development Stage 4 Infrastructure at the former runway and south apron Tentative Environmental Monitoring and Weekly Site Inspection Schedule for May 2022

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
				Weekly Site Inspection	24-hr TSP: AM3,	
					AM4(A), AM7	
					1-hr X3 TSP: AM3, AM4(A), AM7	
					30-min Noise: M11, M12	
8	9	10	11	12	13	14
Ĩ				Weekly Site Inspection +		
				SSMC meeting		
				24-hr TSP: AM3,		
				AM4(A), AM7		
				1-hr X3 TSP: AM3,		
				AM4(A), AM7 30-min Noise: M11, M12		
15	16	17	18	19	20	21
10	10	- /	24-hr TSP: AM3,	Weekly Site Inspection		
			AM4(A), AM7	5 1		
			1-hr X3 TSP: AM3,			
			AM4(A), AM7			
			30-min Noise: M11, M12			
22	23	24 24-hr TSP: AM3,	25	26 Westeller Site Insuration	27	28
		24-hr TSP: AM3, AM4(A), AM7		Weekly Site Inspection		
		1-hr X3 TSP: AM3,				
		AM4(A), AM7				
		30-min Noise: M11, M12				
29	30	31				
	24-hr TSP: AM3,					
	AM4(A), AM7					
	1-hr X3 TSP: AM3,					
	AM4(A), AM7					
	30-min Noise: M11, M12					

May 2022

NOTE:

1) Site inspection schedule and Impact monitoring schedule may be changed due to unforeseen circumstance (e.g. adverse weather).

Air Quality Monitoring Station

AM3 - Sky Tower AM4(A) - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop AM7 - Hong Kong Children's Hospital

Noise Quality Monitoring Station

M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop M12 - Hong Kong Children's Hospital

Appendix D – Photographic records

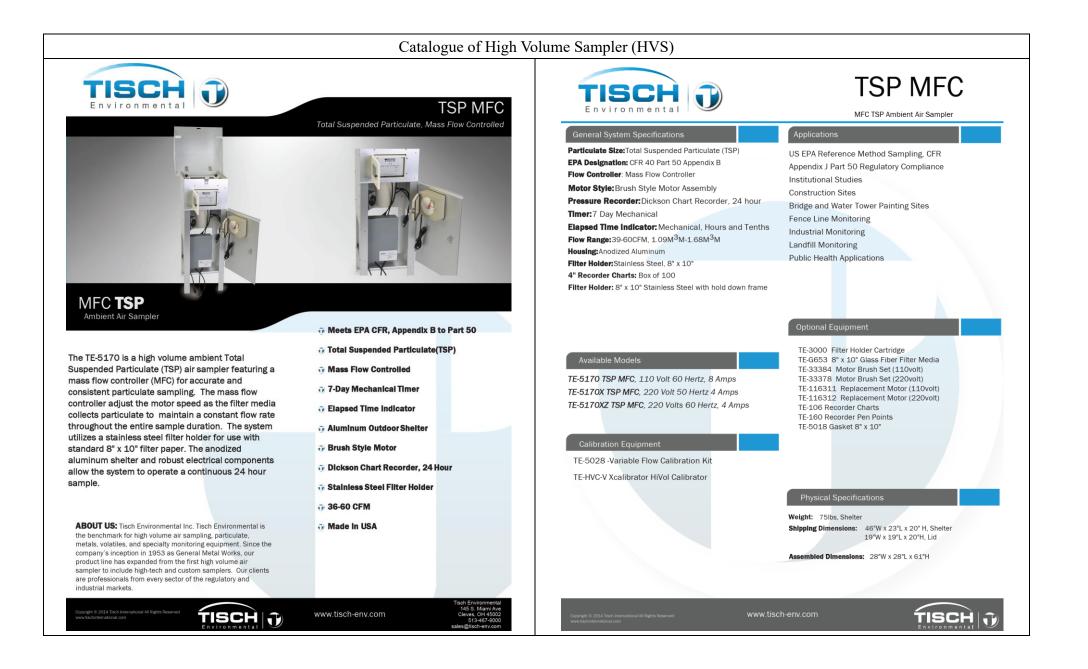
Impact Air Quality Monitoring

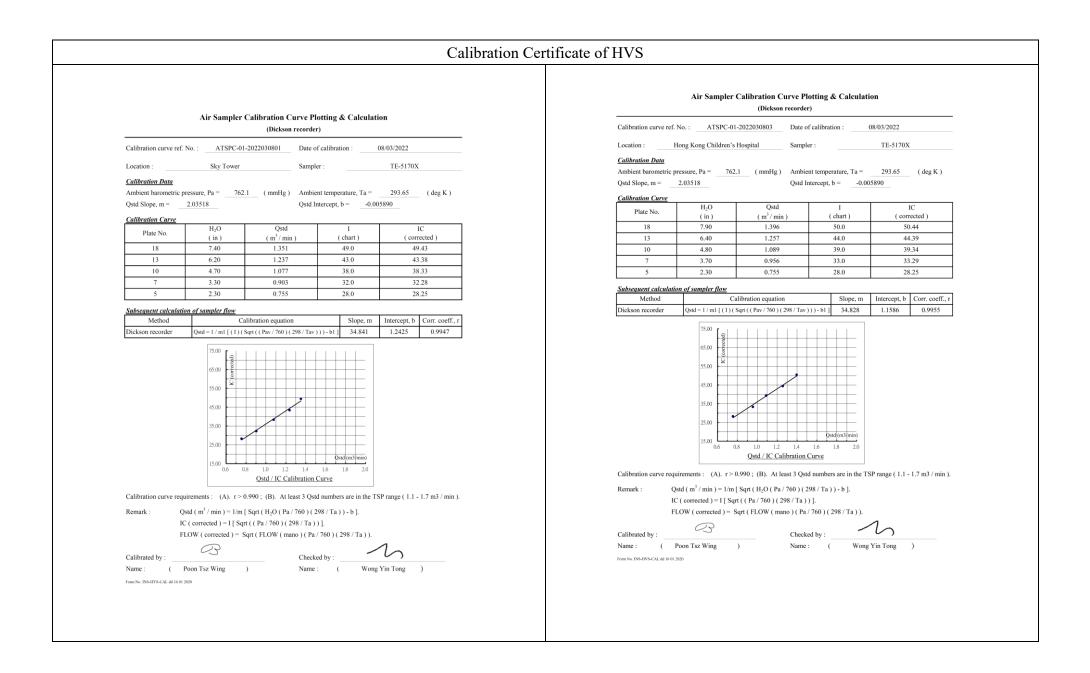


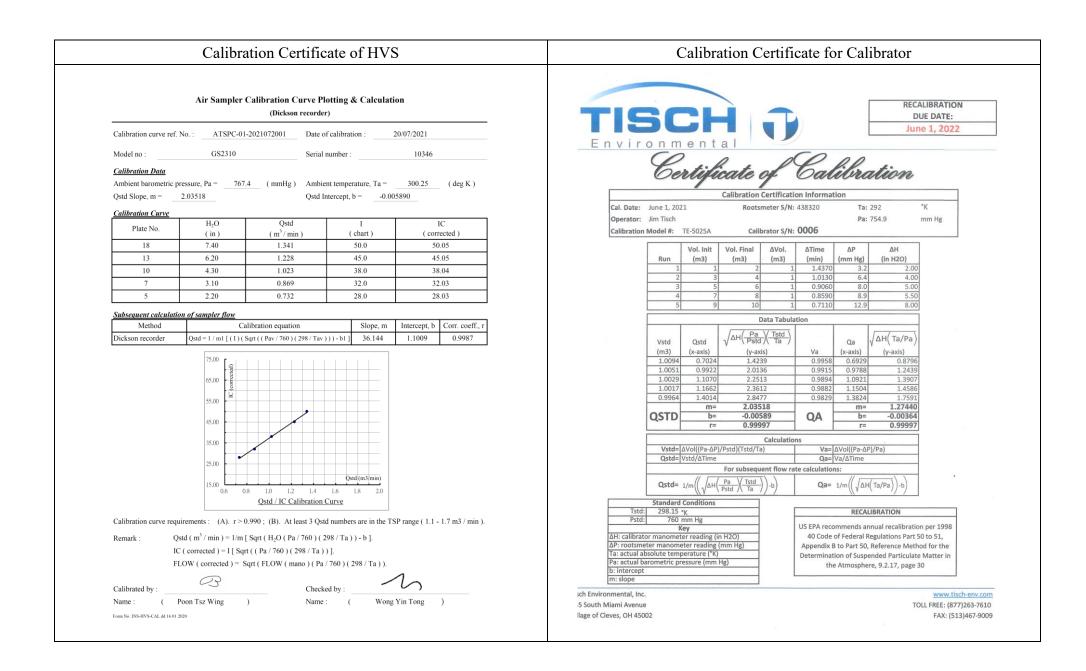
Impact Noise Monitoring



Appendix E – Calibration certificates, catalogue of air quality monitoring equipment







Catalogue of Dust Meter (TSI Sidepak AM510)

The SidePak AM510 monitor's easy-to-read display shows your data as both real-time aerosol mass-concentration and 8-hour time-weighted average (TWA). With its convenient data logging and long battery life, the AM510 is also ideal for extended sampling. The easy-to-use TrakPro Data Analysis Software lets you create effective graphs and reports.



User Friendly

+ Small, lightweight and quiet to maximize worker acceptance + Rugged design with secure belt clip + Easy-to-understand user interface with only four keys + Lockable keypad prevents tampering while sampling + User-adjustable sample flow rate + Define, label and store multiple calibration constants + Easy-to-read LCD display + Convenient, threaded tripod socket accommodates area sampling

Advanced Features

+ Smart Battery Management System provides precise run time information, maximizes battery capacity and speeds charging Integrated pump allows use of size-selective aerosol inlet conditioners + Built-in impactors let you choose "none," 1.0, 2.5 or 10-micron cut off + 10-mm Dorr-Oliver cyclone for respirable sampling + Display shows real-time concentrations (mg/m³) and "on-the-fly" TWA as you data log + Display statistics: max, min and average readings, elapsed time and 8-hour TWA

Quick and Easy Reports

+ Convenient preprogramming for occupational exposure sampling + Data log for long periods and store multiple tests + Analyze data, print graphs and create reports with TrakPro Data Analysis Software + USB port lets you conveniently connect to your computer

Power to Spare

+ Long-lasting NiMH rechargeable battery packs eliminate "memory" issues + Choice of rechargeable NiMH smart battery packs or AA-cell pack

Model AM510 SidePak Personal Aerosol Monitor

Sensitivity Sensor Type
Aerosol Concentration I

0.001 to 20 mg/m³ Range (calibrated to respirable fraction of ISO 12103-1, A1 test dust) Particle Size Range 0.1 to 10 micrometer (µm) Minimum Resolution 0.001 mg/m³ ±0.001 mg/m³ over 24 hours using 10-second time-constant Temperature Coefficient Approximately +0.0005 mg/m³ per °C (for variations from temperature at which instrument was last zeroed)

90° light scattering,

670 nm laser diode

Flow Rate Range

Zero stability

User-adjustable, 0.7 to 1.8 liters/min (L/min)

Temperature Range Operating Range 32 to 120°F (0 to 50°C) Storage Range -4 to 140°F (-20 to 60°C)

Operational Humidity 0 to 95% RH, non-condensing

Time Constant (LCD display) Jser-adjustable, 1 to 60 seconds Range

Data Logging Approx. 31,000 Data Points Logging Interval User-adjustable, 1 second to 1 hour

User-Select Calibration Factors

Factory Setting 1.0 (non-adjustable) User-defined Settings 3, with user-defined labels 0.1 to 10.0, user-adjustable

Physical External Dimensions

Range

4.2 x 3.7 x 2.8 in. (106 x 92 x 70 mm) with 801723, 801724, 801729 or 801743 battery 5.1 x 3.7 x 2.8 in. (130 x 92 x 70 mm) with 801708, 801722, 801728, 801735, or 801736 battery 16 oz (0.46 kg) with 801723, 801724, Weight 801729 or 801743 battery 19 oz (0.54 kg) with 801708, 01722, 801728, 801735, or 801736 battery Display Tripod Socket 2 line x 12 character LCD 1/4-20 female thread

Power Supply/Charger (P/N 2613210) Input Voltage Range 100 to 240 VAC. 50 to 60 Hz

Input Voltage Range Output Voltage 9 VDC @ 1.0 A

Maintenance Factory Clean/Calibrate User Zero Calibration

Before each use User Flow Calibration As needed Communications Interface

Recommended annually

USB 1.1

Type Connector, Instrument USB Mini-B (socket)

Minimum Computer Requirements for TrakPro™ Data Analysis Software

Communications Port Universal Serial Bus (USB) v 1.1 or higher Microsoft Windows® XP, or 7 Operating System (32-bit or 64-bit) operating systems

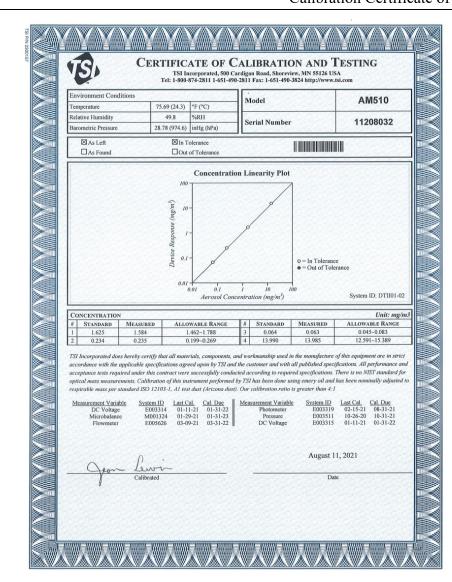
Battery Performance

Battery Options	Charge Time (hrs)*	Intrinsic Safety Rating	Run Time (hrs @ 1.7 L/min)
1600 mAH NiMH Pack, 4.8 V (P/N 801723)	3.0	No	7.1
1650 mAH NiMH Pack, 4.8V (P/N 801724, 801729 or 801743)	3.5	CSA**	7.5
2700 mAH NiMH Pack, 4.8 V (P/N 801722 or 801728)	5.5	No	12.0
2700 mAH NiMH Pack, 4.8 V (P/N 801735)	5.5	No	12.0
6-Cell AA-size Alkaline Pack*** (P/N 801708 or 801736 with six user-supplied AA cells)	N/A	No	22.5

*Of a fully depleted battery **All dust plugs and dust gaskets must be installed. ***Using Energizer AA-size, E91 alkaline batteries.

Battery Level Indicator

The Smart Battery Management System™ technology utilizes a built-in "gauge" in the SidePak™ battery packs. The gauge monitors battery capacity and calculates run time information by dividing capacity of the battery (mAH) by the instantaneous current consumed by the instrument (mA). This calculation is correct for current operating conditions and can change due to current (mA) consumption or changes in battery capacity.



Calibration Certificate of Dust Meter (TSI Sidepak AM510)

Personal Aerosol Monitor Performance check with High Volume Sampler

Preformance Check ref. No	AS0210410-5	Report Issue Date	10/04/2021
Date of performance check	08/04/2021		

Objective:

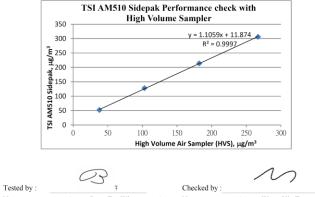
A dust meter and a Total Suspended Particulate High Volume Air Sampler (HVS) were placed together to measure the Total Suspended Particulate (TSP) concentrations simultaneously to check the performance.

Equipment Used:

Equipment	Manufacturer and Model	Serial Number
Personal Aerosol Monitor	TSI AM510 Sidepak	11208032
Total Suspended Particulate High Volume Air Sampler	GS2310	10346

Resusit:

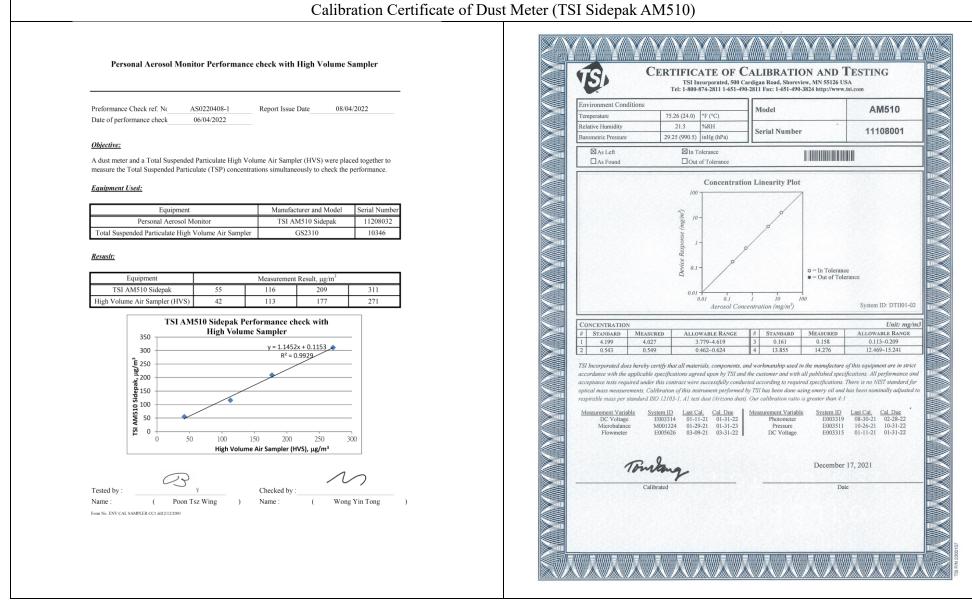
Γ	Equipment	Measurement Result, µg/m3								
ſ	TSI AM510 Sidepak	52	128	214	306					
Ι	High Volume Air Sampler (HVS)	38	103	182	267					

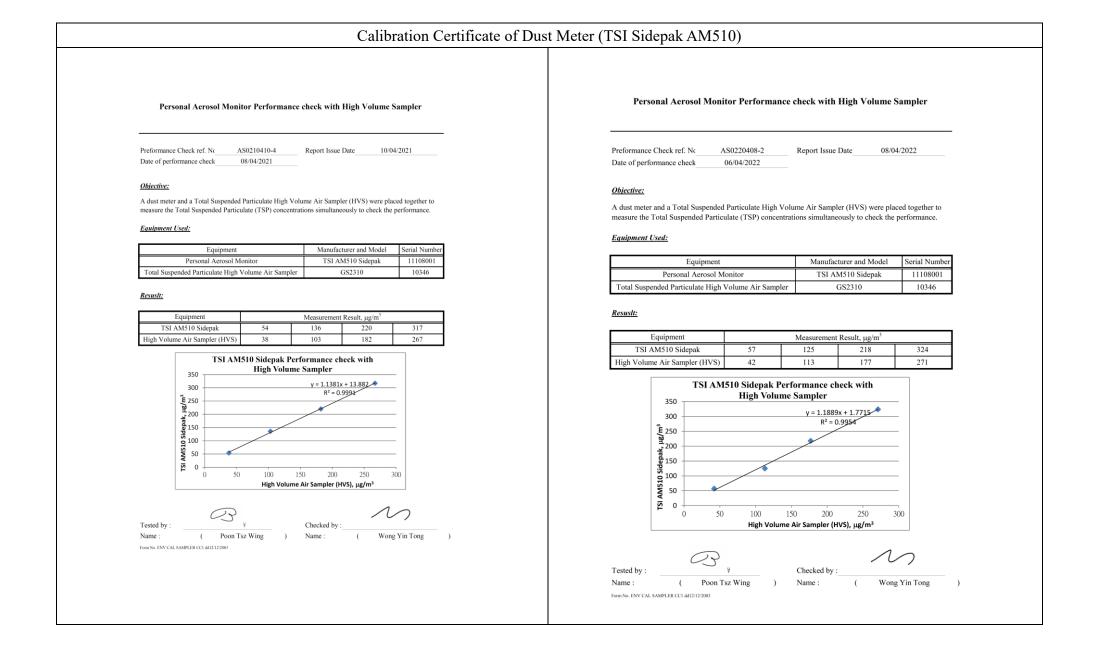


 Name :
 (
 Poon Tsz Wing
 Name :
 (
 Wong Yin Tong
)

 Form No. ENV CAL SAMPLER CCI 4012/12/003

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Catalogue of Weather Station 7 Cabled Vantage Pro2™ 6152C Vantage Pro2 & Vantage Pro2 Plus™ Stations 6162C Ultra Violet (UV) Radiation Index (requires UV sensor) Vantage Pro2[™] Range 0 to 16 Index High)) The Vantage Pro2[™] (# 6152C) and Vantage Pro2[™] Plus (# 6162C) cabled weather stations include two components: the Integrated Sensor Suite (ISS) and the console. The ISS contains the sensor interface module (SIM), rain collector, an anemometer, and a passive radiation shield. The Vantage Pro2 console provides the user interface, data display, and calculations. The Vantage Pro2 Plus weather station includes two additional sensors that are optional on the Current Graph Data...... Instant Reading and Hourly Average: Daily, Monthly High Vantage Pro2 and purchased separately: the UV Sensor and the Solar Radiation Sensor. The console and ISS are powered by an AC-power adapter connected to the console. Batteries can be installed in the console to provide a backup power supply. Use WeatherLink[®] to let your weather station interface with a computer, log data, and upload weather information to the Internet. The 6152C and 6162C models rely on passive shielding to reduce solar-radiation induced temperature errors in the outside temperature sensor readings. Wind Wind Chill (Calculated) Integrated Sensor Suite (ISS) the nearest 1°C console and ISS Source..... United States National Weather Service (NWS)/NOAA Equation Used Osczevski (1995) (adopted by US NWS in 2001) Cable Type 4-conductor, 26 AWG Variables Used Avg. Wind Speed Current Display Data Instant Calculation Maximum displayable wind decreases as the length of cable increases, at 140° (42 m) of cable, the maximum wind speed displayed is 135 mph (60 Current Graph Data Instant Calculation; Hourly, Daily and Monthly Low m/s); at 240' (73 m), the maximum wind speed displayed is 100 mph (34 m/s). Historical Graph Data. Hourly, Daily and Monthly Lows Wind Speed Sensor Solid state magnetic sensor Alarm..... Low Threshold from Instant Calculation Wind Direction Sensor Wind vane with potentiometer Wind Direction Range 1 - 360° (214 cm²) collection area Temperature Sensor Type..... PN Junction Silicon Diode Relative Humidity Sensor Type Film capacitor element Accuracy ±3° Update Interval 2.5 to 3 seconds Sensor Inputs Current Graph Data Instant Reading (user adjustable); 10-min. Dominant; Hourly, Daily, RF Filtering RC low-pass filter on each signal line Monthly Dominant ISS Dimensions(not including anemometer or bird spikes); Monthly Dominants Wind Speed Resolution and Units 1 mph, 1 km/h, 0.4 m/s, or 1 knot (user-selectable) Measured in mph; Vantage Pro2 with Fan-Asprated Rad Shield..... 20.8" x 9.4" x 16.0" (528 mm x 239 mm x 406 mm) other units are converted from mph and rounded to nearest 1 km/hr. 0.1 Vantage Pro2 Plus with Standard Rad Shield 14.3" x 9.7" x 14.5" (363 mm x 246 mm x 368 mm) m/s or 1 knot Vantage Pro2 Plus with Fan-Aspirated Rad Shield 21.1" x 9.7" x 16.0" (536 mm x 246 mm x 406 mm) Update Interval Instant Reading: 2.5 to 3 seconds, 10-minute Average: 1 minute length of cable from anemometer to ISS increases.) Current Display Data Instant Current Graph Data Instant Reading; 10-minute and Hourly Average; Hourly High; Daily, Davis Instruments 3465 Diablo Ave., Hayward, CA 94545-2778 USA (510) 732-9229 - FAX (510) 670-0589 - sales@davisinstruments.com - www.davisinstruments.com Monthly and Yearly High with Direction of High DS6152C, 6162C Rev. W 12/7/18 Highs with Direction of Highs High Thresholds from Instant Reading and 10-minute Average Alarms

	Calibration Certificate of Weather Station
	CALIBRATION CALIB
	Calibration Certificate No.: CC0202201 Customer Information Customer: Castor Testing Centre Limited Address: 33, On Kui Street, Fanling, N.T.
	Equipment Identification Equipment Description Manufacturer Model No. Serial No. Assigned equipment No.: Weather Station Davis Vantage PRO 2 6312CEU AY170606003 N/A
ńc.	Certificate Information 11 January 2022 Calibration Condition: 23.4C, 54%RH, 1010hPa Date of Calibration: 20 January 2022 Adjustment: N/A Date of Calibration: V/A Appearance: Good Calibration Procedure: SOP-116 N/A Remark:
	Reference Equipment IdentificationEquipment DescriptionModelSerial No.Expiration DatePlatinum resistance thermometerKPPRHT-A-1KCI I-1095, KCI P-109528 June 2023Humidity sensorKPPRHT-A-1KCI I-1095, KCI P-10954 March 2022Hot Wire Anemometer953519535131600411 July 2022
Note Note	accuracy and good condition. 23: The result reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long term stability of the instrument.
	Approved By: Wing Cheng Certificate Issue Date: 20 January 2022 Certificate Issue Date: 20 January 2022 Certificate Issue Date: 20 January 2022
	The certificate shall not be reproduced except in full, without written approval of Cal Lab Calibration CC0202201 The certificate is issued subject to the latest Terms and Conditions, available at our web site Page 1 of 2

Appendix F – Weather information

General Information

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)	Total Rainfall (mm)
01/04/2022	15.7	22	0.5
02/04/2022	13.7	16.1	1.3
03/04/2022	15.2	23.9	0
04/04/2022	16.8	25.6	0
05/04/2022	18.1	26.9	0
06/04/2022	19.4	26.2	0
07/04/2022	20	26.7	0
08/04/2022	20.5	29.1	0
09/04/2022	20.3	27.6	0
10/04/2022	20.5	28.5	0
11/04/2022	22.6	30.3	0
12/04/2022	23	30.2	0
13/04/2022	23.9	28.1	Trace
14/04/2022	23	27.8	0
15/04/2022	22.8	27.6	Trace
16/04/2022	21.2	22.9	Trace
17/04/2022	19.2	24.9	0.4
18/04/2022	20.9	23.2	Trace
19/04/2022	19.1	21.1	0.8
20/04/2022	19.8	25.6	0
21/04/2022	21.4	28.4	0
22/04/2022	23.4	27.2	0
23/04/2022	24.1	30.3	Trace
24/04/2022	24.9	30.9	0
25/04/2022	26.3	31.4	0
26/04/2022	26.2	29.8	0
27/04/2022	26.1	31.6	0
28/04/2022	26.8	31.6	0
29/04/2022	26.2	32	0
30/04/2022	24.3	26.8	0.5

NOTE1: The above weather information was obtained from manned weather station of Hong Kong Observatory. NOTE2: Trace means rainfall less than 0.05 mm

https://www.hko.gov.hk/en/cis/dailyExtract.htm?y=2022&m=04

Date	Time	Wind Speed (m/s)	Wind Direction												
01/04/2022	0:00	1.3	90	02/04/2022	0:00	0.9	90	03/04/2022	0:00	0.4	202.5	04/04/2022	0:00	0.9	225
01/04/2022	1:00	1.8	22.5	02/04/2022	1:00	1.3	112.5	03/04/2022	1:00	0.4	202.5	04/04/2022	1:00	0.9	270
01/04/2022	2:00	0.9	112.5	02/04/2022	2:00	0.9	22.5	03/04/2022	2:00	0.4	202.5	04/04/2022	2:00	0.9	292.5
01/04/2022	3:00	0.9	90	02/04/2022	3:00	0.9	112.5	03/04/2022	3:00	1.3	225	04/04/2022	3:00	0.4	270
01/04/2022	4:00	0.4	90	02/04/2022	4:00	0.9	112.5	03/04/2022	4:00	1.3	225	04/04/2022	4:00	0.4	270
01/04/2022	5:00	0.9	270	02/04/2022	5:00	1.8	90	03/04/2022	5:00	0.9	225	04/04/2022	5:00	0.4	157.5
01/04/2022	6:00	0.9	112.5	02/04/2022	6:00	1.8	90	03/04/2022	6:00	1.3	112.5	04/04/2022	6:00	0.4	45
01/04/2022	7:00	0.4	67.5	02/04/2022	7:00	1.8	90	03/04/2022	7:00	1.3	135	04/04/2022	7:00	0.4	337.5
01/04/2022	8:00	0.9	112.5	02/04/2022	8:00	1.8	90	03/04/2022	8:00	1.8	135	04/04/2022	8:00	0.4	270
01/04/2022	9:00	0.9	112.5	02/04/2022	9:00	0.9	112.5	03/04/2022	9:00	1.8	90	04/04/2022	9:00	0.9	135
01/04/2022	10:00	1.3	135	02/04/2022	10:00	0.9	112.5	03/04/2022	10:00	0.9	112.5	04/04/2022	10:00	0.4	270
01/04/2022	11:00	1.3	112.5	02/04/2022	11:00	0.9	90	03/04/2022	11:00	1.3	112.5	04/04/2022	11:00	1.3	45
01/04/2022	12:00	1.8	22.5	02/04/2022	12:00	0.9	112.5	03/04/2022	12:00	1.3	112.5	04/04/2022	12:00	1.3	67.5
01/04/2022	13:00	1.3	337.5	02/04/2022	13:00	1.3	112.5	03/04/2022	13:00	1.3	112.5	04/04/2022	13:00	1.3	225
01/04/2022	14:00	1.3	45	02/04/2022	14:00	1.3	112.5	03/04/2022	14:00	1.8	135	04/04/2022	14:00	1.3	112.5
01/04/2022	15:00	0.9	337.5	02/04/2022	15:00	1.8	135	03/04/2022	15:00	0.9	90	04/04/2022	15:00	1.3	22.5
01/04/2022	16:00	0.9	112.5	02/04/2022	16:00	0.9	112.5	03/04/2022	16:00	0.4	112.5	04/04/2022	16:00	0.9	67.5
01/04/2022	17:00	0.9	270	02/04/2022	17:00	0.9	90	03/04/2022	17:00	0.9	90	04/04/2022	17:00	0.4	247.5
01/04/2022	18:00	0.9	225	02/04/2022	18:00	0.9	67.5	03/04/2022	18:00	1.3	112.5	04/04/2022	18:00	0.9	135
01/04/2022	19:00	1.3	135	02/04/2022	19:00	1.3	157.5	03/04/2022	19:00	1.8	112.5	04/04/2022	19:00	1.3	45
01/04/2022	20:00	0.9	90	02/04/2022	20:00	0.9	112.5	03/04/2022	20:00	1.3	90	04/04/2022	20:00	1.8	22.5
01/04/2022	21:00	1.3	45	02/04/2022	21:00	0.9	112.5	03/04/2022	21:00	1.3	135	04/04/2022	21:00	1.3	315
01/04/2022	22:00	0.9	45	02/04/2022	22:00	0.9	112.5	03/04/2022	22:00	1.3	247.5	04/04/2022	22:00	0.9	67.5
01/04/2022	23:00	1.3	90	02/04/2022	23:00	0.4	90	03/04/2022	23:00	1.3	135	04/04/2022	23:00	0.9	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction												
05/04/2022	0:00	0.9	45	06/04/2022	0:00	1.3	225	07/04/2022	0:00	0.4	225	08/04/2022	0:00	0.9	67.5
05/04/2022	1:00	0.9	112.5	06/04/2022	1:00	0.9	225	07/04/2022	1:00	0.4	270	08/04/2022	1:00	0.9	22.5
05/04/2022	2:00	1.3	45	06/04/2022	2:00	0.9	225	07/04/2022	2:00	0.4	270	08/04/2022	2:00	0.9	337.5
05/04/2022	3:00	1.3	22.5	06/04/2022	3:00	1.3	90	07/04/2022	3:00	0.4	270	08/04/2022	3:00	1.3	202.5
05/04/2022	4:00	0.9	45	06/04/2022	4:00	1.3	22.5	07/04/2022	4:00	0.9	247.5	08/04/2022	4:00	0.9	112.5
05/04/2022	5:00	0.4	45	06/04/2022	5:00	1.3	180	07/04/2022	5:00	0.9	22.5	08/04/2022	5:00	0.9	112.5
05/04/2022	6:00	0.4	135	06/04/2022	6:00	1.3	90	07/04/2022	6:00	0.4	135	08/04/2022	6:00	0.4	90
05/04/2022	7:00	0.4	45	06/04/2022	7:00	1.3	45	07/04/2022	7:00	0.4	157.5	08/04/2022	7:00	0.4	112.5
05/04/2022	8:00	0.4	247.5	06/04/2022	8:00	0.9	45	07/04/2022	8:00	0.4	270	08/04/2022	8:00	0.9	135
05/04/2022	9:00	0.4	45	06/04/2022	9:00	0.9	90	07/04/2022	9:00	0.9	337.5	08/04/2022	9:00	0.9	67.5
05/04/2022	10:00	0.4	45	06/04/2022	10:00	0.9	22.5	07/04/2022	10:00	0.4	22.5	08/04/2022	10:00	0.4	112.5
05/04/2022	11:00	0.9	67.5	06/04/2022	11:00	0.9	22.5	07/04/2022	11:00	0.4	225	08/04/2022	11:00	0.4	112.5
05/04/2022	12:00	0.9	67.5	06/04/2022	12:00	1.3	315	07/04/2022	12:00	0.9	67.5	08/04/2022	12:00	0.9	112.5
05/04/2022	13:00	0.9	45	06/04/2022	13:00	0.9	135	07/04/2022	13:00	0.9	247.5	08/04/2022	13:00	0.4	90
05/04/2022	14:00	0.9	22.5	06/04/2022	14:00	0.9	90	07/04/2022	14:00	0.4	315	08/04/2022	14:00	0.4	135
05/04/2022	15:00	0.9	315	06/04/2022	15:00	1.3	90	07/04/2022	15:00	0.9	22.5	08/04/2022	15:00	0.9	112.5
05/04/2022	16:00	1.3	337.5	06/04/2022	16:00	0.9	112.5	07/04/2022	16:00	0.9	22.5	08/04/2022	16:00	0.9	90
05/04/2022	17:00	0.9	292.5	06/04/2022	17:00	0.9	112.5	07/04/2022	17:00	1.3	22.5	08/04/2022	17:00	1.3	112.5
05/04/2022	18:00	1.3	292.5	06/04/2022	18:00	0.9	135	07/04/2022	18:00	1.3	90	08/04/2022	18:00	0.9	112.5
05/04/2022	19:00	0.4	315	06/04/2022	19:00	1.8	135	07/04/2022	19:00	1.3	22.5	08/04/2022	19:00	0.9	90
05/04/2022	20:00	0.9	45	06/04/2022	20:00	0.9	157.5	07/04/2022	20:00	0.9	225	08/04/2022	20:00	1.3	90
05/04/2022	21:00	0.9	67.5	06/04/2022	21:00	0.9	135	07/04/2022	21:00	0.9	112.5	08/04/2022	21:00	1.3	135
05/04/2022	22:00	1.3	67.5	06/04/2022	22:00	1.3	315	07/04/2022	22:00	0.9	67.5	08/04/2022	22:00	0.9	112.5
05/04/2022	23:00	0.9	45	06/04/2022	23:00	0.4	337.5	07/04/2022	23:00	1.3	22.5	08/04/2022	23:00	0.9	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction												
09/04/2022	0:00	1.3	225	10/04/2022	0:00	0.9	135	11/04/2022	0:00	0.9	22.5	12/04/2022	0:00	0.9	22.5
09/04/2022	1:00	0.9	337.5	10/04/2022	1:00	0.4	90	11/04/2022	1:00	1.3	22.5	12/04/2022	1:00	0.9	337.5
09/04/2022	2:00	1.3	270	10/04/2022	2:00	1.3	180	11/04/2022	2:00	0.9	22.5	12/04/2022	2:00	0.9	202.5
09/04/2022	3:00	1.3	135	10/04/2022	3:00	0.9	202.5	11/04/2022	3:00	0.9	0	12/04/2022	3:00	1.3	112.5
09/04/2022	4:00	0.9	112.5	10/04/2022	4:00	0.9	270	11/04/2022	4:00	0.9	45	12/04/2022	4:00	1.3	112.5
09/04/2022	5:00	0.9	22.5	10/04/2022	5:00	0.4	90	11/04/2022	5:00	0.9	45	12/04/2022	5:00	1.3	90
09/04/2022	6:00	0.9	292.5	10/04/2022	6:00	0.4	45	11/04/2022	6:00	1.3	0	12/04/2022	6:00	0.9	112.5
09/04/2022	7:00	1.3	315	10/04/2022	7:00	0.4	157.5	11/04/2022	7:00	0.9	337.5	12/04/2022	7:00	1.3	135
09/04/2022	8:00	1.3	67.5	10/04/2022	8:00	0.4	247.5	11/04/2022	8:00	0.9	337.5	12/04/2022	8:00	1.3	67.5
09/04/2022	9:00	1.8	112.5	10/04/2022	9:00	0.9	247.5	11/04/2022	9:00	0.4	0	12/04/2022	9:00	0.9	112.5
09/04/2022	10:00	1.3	112.5	10/04/2022	10:00	0.4	135	11/04/2022	10:00	0.4	22.5	12/04/2022	10:00	0.9	112.5
09/04/2022	11:00	1.3	112.5	10/04/2022	11:00	0.9	135	11/04/2022	11:00	0.9	0	12/04/2022	11:00	0.9	112.5
09/04/2022	12:00	1.3	337.5	10/04/2022	12:00	1.3	270	11/04/2022	12:00	0.9	22.5	12/04/2022	12:00	1.3	90
09/04/2022	13:00	0.9	112.5	10/04/2022	13:00	1.3	67.5	11/04/2022	13:00	0.4	45	12/04/2022	13:00	1.3	135
09/04/2022	14:00	1.3	45	10/04/2022	14:00	0.4	22.5	11/04/2022	14:00	0.4	67.5	12/04/2022	14:00	1.8	112.5
09/04/2022	15:00	1.3	22.5	10/04/2022	15:00	0.4	337.5	11/04/2022	15:00	0.4	67.5	12/04/2022	15:00	1.3	90
09/04/2022	16:00	0.9	22.5	10/04/2022	16:00	0.4	202.5	11/04/2022	16:00	0.9	67.5	12/04/2022	16:00	1.3	112.5
09/04/2022	17:00	1.3	22.5	10/04/2022	17:00	0.9	112.5	11/04/2022	17:00	0.9	22.5	12/04/2022	17:00	1.3	112.5
09/04/2022	18:00	0.9	22.5	10/04/2022	18:00	0.4	112.5	11/04/2022	18:00	0.9	0	12/04/2022	18:00	0.9	202.5
09/04/2022	19:00	0.9	337.5	10/04/2022	19:00	0.4	90	11/04/2022	19:00	0.9	22.5	12/04/2022	19:00	1.3	112.5
09/04/2022	20:00	0.4	202.5	10/04/2022	20:00	0.9	112.5	11/04/2022	20:00	0.9	0	12/04/2022	20:00	1.3	112.5
09/04/2022	21:00	0.9	112.5	10/04/2022	21:00	0.4	135	11/04/2022	21:00	0.9	45	12/04/2022	21:00	0.9	90
09/04/2022	22:00	0.4	112.5	10/04/2022	22:00	0.4	67.5	11/04/2022	22:00	0.9	22.5	12/04/2022	22:00	1.3	112.5
09/04/2022	23:00	0.4	90	10/04/2022	23:00	0.4	112.5	11/04/2022	23:00	0.9	22.5	12/04/2022	23:00	0.9	135

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction												
13/04/2022	0:00	0.4	112.5	14/04/2022	0:00	0.4	112.5	15/04/2022	0:00	0.4	22.5	16/04/2022	0:00	0.9	67.5
13/04/2022	1:00	0.4	135	14/04/2022	1:00	0.4	112.5	15/04/2022	1:00	0.4	157.5	16/04/2022	1:00	0.9	112.5
13/04/2022	2:00	0.9	22.5	14/04/2022	2:00	0.4	90	15/04/2022	2:00	1.3	247.5	16/04/2022	2:00	0.9	112.5
13/04/2022	3:00	0.4	22.5	14/04/2022	3:00	0.4	135	15/04/2022	3:00	1.3	135	16/04/2022	3:00	0.4	90
13/04/2022	4:00	0.9	337.5	14/04/2022	4:00	1.8	112.5	15/04/2022	4:00	0.9	135	16/04/2022	4:00	0.4	270
13/04/2022	5:00	0.4	337.5	14/04/2022	5:00	1.3	90	15/04/2022	5:00	0.4	135	16/04/2022	5:00	0.9	112.5
13/04/2022	6:00	1.3	90	14/04/2022	6:00	0.9	112.5	15/04/2022	6:00	0.4	135	16/04/2022	6:00	0.4	112.5
13/04/2022	7:00	1.3	90	14/04/2022	7:00	1.3	112.5	15/04/2022	7:00	0.4	67.5	16/04/2022	7:00	0.4	112.5
13/04/2022	8:00	0.9	90	14/04/2022	8:00	1.3	90	15/04/2022	8:00	0.9	247.5	16/04/2022	8:00	0.4	90
13/04/2022	9:00	0.4	112.5	14/04/2022	9:00	1.3	90	15/04/2022	9:00	0.4	337.5	16/04/2022	9:00	1.3	112.5
13/04/2022	10:00	0.4	90	14/04/2022	10:00	1.3	135	15/04/2022	10:00	0.4	45	16/04/2022	10:00	1.3	112.5
13/04/2022	11:00	0.4	90	14/04/2022	11:00	1.3	112.5	15/04/2022	11:00	0.9	22.5	16/04/2022	11:00	0.9	112.5
13/04/2022	12:00	0.9	22.5	14/04/2022	12:00	0.9	112.5	15/04/2022	12:00	0.9	337.5	16/04/2022	12:00	0.9	112.5
13/04/2022	13:00	0.9	45	14/04/2022	13:00	1.3	112.5	15/04/2022	13:00	0.4	22.5	16/04/2022	13:00	1.8	90
13/04/2022	14:00	0.9	45	14/04/2022	14:00	0.9	112.5	15/04/2022	14:00	0.4	22.5	16/04/2022	14:00	1.8	135
13/04/2022	15:00	0.4	247.5	14/04/2022	15:00	0.4	135	15/04/2022	15:00	0.4	45	16/04/2022	15:00	0.9	112.5
13/04/2022	16:00	0.9	247.5	14/04/2022	16:00	0.9	112.5	15/04/2022	16:00	0.4	67.5	16/04/2022	16:00	1.3	112.5
13/04/2022	17:00	1.3	247.5	14/04/2022	17:00	0.4	112.5	15/04/2022	17:00	0.4	337.5	16/04/2022	17:00	1.3	292.5
13/04/2022	18:00	1.3	67.5	14/04/2022	18:00	0.4	112.5	15/04/2022	18:00	0.9	292.5	16/04/2022	18:00	0.9	112.5
13/04/2022	19:00	1.3	45	14/04/2022	19:00	0.9	112.5	15/04/2022	19:00	0.4	315	16/04/2022	19:00	0.9	90
13/04/2022	20:00	0.9	157.5	14/04/2022	20:00	0.4	112.5	15/04/2022	20:00	0.9	337.5	16/04/2022	20:00	0.9	112.5
13/04/2022	21:00	0.4	337.5	14/04/2022	21:00	0.9	135	15/04/2022	21:00	0.9	90	16/04/2022	21:00	0.9	135
13/04/2022	22:00	0.9	270	14/04/2022	22:00	0.4	90	15/04/2022	22:00	0.9	337.5	16/04/2022	22:00	0.9	90
13/04/2022	23:00	0.4	315	14/04/2022	23:00	0.4	337.5	15/04/2022	23:00	1.3	22.5	16/04/2022	23:00	0.9	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction												
17/04/2022	0:00	0.9	337.5	18/04/2022	0:00	1.3	90	19/04/2022	0:00	0.9	90	20/04/2022	0:00	1.3	67.5
17/04/2022	1:00	1.3	337.5	18/04/2022	1:00	0.9	337.5	19/04/2022	1:00	0.9	90	20/04/2022	1:00	0.9	90
17/04/2022	2:00	0.9	292.5	18/04/2022	2:00	0.9	270	19/04/2022	2:00	0.9	112.5	20/04/2022	2:00	0.9	112.5
17/04/2022	3:00	1.3	315	18/04/2022	3:00	0.9	90	19/04/2022	3:00	0.4	112.5	20/04/2022	3:00	0.9	90
17/04/2022	4:00	1.3	315	18/04/2022	4:00	1.8	45	19/04/2022	4:00	0.4	112.5	20/04/2022	4:00	0.9	112.5
17/04/2022	5:00	0.9	337.5	18/04/2022	5:00	1.8	22.5	19/04/2022	5:00	0.4	112.5	20/04/2022	5:00	0.4	112.5
17/04/2022	6:00	0.9	112.5	18/04/2022	6:00	1.3	112.5	19/04/2022	6:00	0.9	90	20/04/2022	6:00	0.4	90
17/04/2022	7:00	1.3	112.5	18/04/2022	7:00	0.9	112.5	19/04/2022	7:00	0.9	112.5	20/04/2022	7:00	1.3	90
17/04/2022	8:00	2.2	45	18/04/2022	8:00	1.8	45	19/04/2022	8:00	0.9	112.5	20/04/2022	8:00	0.9	22.5
17/04/2022	9:00	1.3	90	18/04/2022	9:00	1.3	315	19/04/2022	9:00	1.3	90	20/04/2022	9:00	0.9	112.5
17/04/2022	10:00	1.8	22.5	18/04/2022	10:00	0.4	112.5	19/04/2022	10:00	0.9	112.5	20/04/2022	10:00	1.3	135
17/04/2022	11:00	0.9	112.5	18/04/2022	11:00	1.3	247.5	19/04/2022	11:00	0.9	90	20/04/2022	11:00	1.3	112.5
17/04/2022	12:00	0.9	112.5	18/04/2022	12:00	2.2	45	19/04/2022	12:00	1.3	112.5	20/04/2022	12:00	0.9	112.5
17/04/2022	13:00	1.3	45	18/04/2022	13:00	1.8	90	19/04/2022	13:00	1.3	112.5	20/04/2022	13:00	0.9	67.5
17/04/2022	14:00	0.9	112.5	18/04/2022	14:00	1.3	90	19/04/2022	14:00	1.3	135	20/04/2022	14:00	1.3	45
17/04/2022	15:00	1.3	112.5	18/04/2022	15:00	1.3	22.5	19/04/2022	15:00	2.2	22.5	20/04/2022	15:00	0.9	112.5
17/04/2022	16:00	0.9	112.5	18/04/2022	16:00	0.9	112.5	19/04/2022	16:00	1.3	112.5	20/04/2022	16:00	0.9	135
17/04/2022	17:00	0.9	90	18/04/2022	17:00	0.4	112.5	19/04/2022	17:00	1.8	337.5	20/04/2022	17:00	0.4	247.5
17/04/2022	18:00	1.3	292.5	18/04/2022	18:00	0.9	112.5	19/04/2022	18:00	1.3	112.5	20/04/2022	18:00	0.4	135
17/04/2022	19:00	0.9	90	18/04/2022	19:00	0.9	90	19/04/2022	19:00	0.9	90	20/04/2022	19:00	0.4	315
17/04/2022	20:00	0.9	112.5	18/04/2022	20:00	0.4	90	19/04/2022	20:00	1.3	112.5	20/04/2022	20:00	0.4	45
17/04/2022	21:00	0.9	135	18/04/2022	21:00	0.9	292.5	19/04/2022	21:00	1.8	112.5	20/04/2022	21:00	0.4	22.5
17/04/2022	22:00	0.9	67.5	18/04/2022	22:00	0.9	337.5	19/04/2022	22:00	1.8	67.5	20/04/2022	22:00	0.9	22.5
17/04/2022	23:00	0.9	112.5	18/04/2022	23:00	0.4	112.5	19/04/2022	23:00	1.3	67.5	20/04/2022	23:00	0.4	315

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction												
21/04/2022	0:00	1.3	112.5	22/04/2022	0:00	0.4	270	23/04/2022	0:00	1.8	90	24/04/2022	0:00	0.4	67.5
21/04/2022	1:00	0.4	112.5	22/04/2022	1:00	0.4	270	23/04/2022	1:00	1.8	45	24/04/2022	1:00	0.4	112.5
21/04/2022	2:00	0.4	90	22/04/2022	2:00	0.4	247.5	23/04/2022	2:00	1.8	112.5	24/04/2022	2:00	0.4	112.5
21/04/2022	3:00	0.9	135	22/04/2022	3:00	0.9	270	23/04/2022	3:00	1.3	90	24/04/2022	3:00	0.4	112.5
21/04/2022	4:00	0.4	112.5	22/04/2022	4:00	1.3	157.5	23/04/2022	4:00	0.9	112.5	24/04/2022	4:00	0.4	112.5
21/04/2022	5:00	0.4	90	22/04/2022	5:00	0.9	112.5	23/04/2022	5:00	1.3	45	24/04/2022	5:00	0.4	67.5
21/04/2022	6:00	0.9	247.5	22/04/2022	6:00	0.9	157.5	23/04/2022	6:00	1.3	270	24/04/2022	6:00	0.9	45
21/04/2022	7:00	1.3	225	22/04/2022	7:00	0.4	112.5	23/04/2022	7:00	0.4	45	24/04/2022	7:00	0.4	90
21/04/2022	8:00	1.3	157.5	22/04/2022	8:00	0.4	135	23/04/2022	8:00	0.9	67.5	24/04/2022	8:00	0.4	315
21/04/2022	9:00	0.9	202.5	22/04/2022	9:00	0.4	112.5	23/04/2022	9:00	0.9	112.5	24/04/2022	9:00	0.9	135
21/04/2022	10:00	0.9	112.5	22/04/2022	10:00	0.9	135	23/04/2022	10:00	0.9	270	24/04/2022	10:00	0.9	112.5
21/04/2022	11:00	0.4	112.5	22/04/2022	11:00	0.9	135	23/04/2022	11:00	0.9	67.5	24/04/2022	11:00	0.9	135
21/04/2022	12:00	0.4	45	22/04/2022	12:00	0.4	112.5	23/04/2022	12:00	1.3	22.5	24/04/2022	12:00	1.3	67.5
21/04/2022	13:00	0.4	90	22/04/2022	13:00	0.9	112.5	23/04/2022	13:00	1.3	22.5	24/04/2022	13:00	0.9	90
21/04/2022	14:00	0.4	22.5	22/04/2022	14:00	0.9	112.5	23/04/2022	14:00	0.9	112.5	24/04/2022	14:00	0.9	112.5
21/04/2022	15:00	0.9	112.5	22/04/2022	15:00	0.9	135	23/04/2022	15:00	0.9	22.5	24/04/2022	15:00	1.3	112.5
21/04/2022	16:00	0.9	112.5	22/04/2022	16:00	0.9	135	23/04/2022	16:00	0.9	112.5	24/04/2022	16:00	0.9	112.5
21/04/2022	17:00	0.4	45	22/04/2022	17:00	0.9	112.5	23/04/2022	17:00	1.3	112.5	24/04/2022	17:00	1.8	90
21/04/2022	18:00	0.4	112.5	22/04/2022	18:00	0.4	112.5	23/04/2022	18:00	0.9	135	24/04/2022	18:00	1.3	112.5
21/04/2022	19:00	0.4	112.5	22/04/2022	19:00	0.9	112.5	23/04/2022	19:00	0.9	67.5	24/04/2022	19:00	1.8	90
21/04/2022	20:00	0.9	337.5	22/04/2022	20:00	0.9	112.5	23/04/2022	20:00	0.9	90	24/04/2022	20:00	1.8	90
21/04/2022	21:00	0.9	22.5	22/04/2022	21:00	0.4	135	23/04/2022	21:00	0.4	135	24/04/2022	21:00	1.3	90
21/04/2022	22:00	0.4	112.5	22/04/2022	22:00	0.9	135	23/04/2022	22:00	0.9	135	24/04/2022	22:00	1.3	112.5
21/04/2022	23:00	0.4	112.5	22/04/2022	23:00	0.9	135	23/04/2022	23:00	0.4	337.5	24/04/2022	23:00	1.3	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction												
25/04/2022	0:00	0.9	315	26/04/2022	0:00	0.9	45	27/04/2022	0:00	0.9	90	28/04/2022	0:00	0.9	157.5
25/04/2022	1:00	0.9	337.5	26/04/2022	1:00	0.4	45	27/04/2022	1:00	0.9	180	28/04/2022	1:00	0.9	112.5
25/04/2022	2:00	0.9	337.5	26/04/2022	2:00	0.4	337.5	27/04/2022	2:00	1.3	225	28/04/2022	2:00	1.3	90
25/04/2022	3:00	0.4	337.5	26/04/2022	3:00	0.9	315	27/04/2022	3:00	1.3	112.5	28/04/2022	3:00	1.3	270
25/04/2022	4:00	1.3	22.5	26/04/2022	4:00	0.9	315	27/04/2022	4:00	0.9	270	28/04/2022	4:00	1.8	270
25/04/2022	5:00	0.4	112.5	26/04/2022	5:00	0.9	337.5	27/04/2022	5:00	0.9	45	28/04/2022	5:00	1.8	247.5
25/04/2022	6:00	1.8	337.5	26/04/2022	6:00	0.9	45	27/04/2022	6:00	0.9	247.5	28/04/2022	6:00	1.8	225
25/04/2022	7:00	1.3	112.5	26/04/2022	7:00	1.3	22.5	27/04/2022	7:00	0.9	247.5	28/04/2022	7:00	1.3	247.5
25/04/2022	8:00	1.3	45	26/04/2022	8:00	0.9	0	27/04/2022	8:00	0.4	225	28/04/2022	8:00	0.9	22.5
25/04/2022	9:00	1.3	67.5	26/04/2022	9:00	0.9	45	27/04/2022	9:00	0.4	180	28/04/2022	9:00	0.9	90
25/04/2022	10:00	0.9	90	26/04/2022	10:00	0.4	22.5	27/04/2022	10:00	0.4	67.5	28/04/2022	10:00	0.9	90
25/04/2022	11:00	1.8	45	26/04/2022	11:00	0.4	22.5	27/04/2022	11:00	0.4	45	28/04/2022	11:00	0.9	180
25/04/2022	12:00	1.8	22.5	26/04/2022	12:00	0.4	22.5	27/04/2022	12:00	0.9	135	28/04/2022	12:00	0.4	45
25/04/2022	13:00	1.8	45	26/04/2022	13:00	0.9	45	27/04/2022	13:00	0.9	247.5	28/04/2022	13:00	0.9	22.5
25/04/2022	14:00	1.8	45	26/04/2022	14:00	1.8	315	27/04/2022	14:00	0.9	225	28/04/2022	14:00	0.9	67.5
25/04/2022	15:00	1.3	90	26/04/2022	15:00	0.9	337.5	27/04/2022	15:00	0.9	337.5	28/04/2022	15:00	0.4	45
25/04/2022	16:00	1.3	67.5	26/04/2022	16:00	0.9	315	27/04/2022	16:00	0.9	112.5	28/04/2022	16:00	0.4	112.5
25/04/2022	17:00	0.9	90	26/04/2022	17:00	1.3	112.5	27/04/2022	17:00	0.9	90	28/04/2022	17:00	0.4	112.5
25/04/2022	18:00	0.4	67.5	26/04/2022	18:00	1.3	337.5	27/04/2022	18:00	0.9	247.5	28/04/2022	18:00	0.9	112.5
25/04/2022	19:00	0.4	67.5	26/04/2022	19:00	0.4	90	27/04/2022	19:00	0.9	270	28/04/2022	19:00	0.4	112.5
25/04/2022	20:00	0.4	67.5	26/04/2022	20:00	1.3	337.5	27/04/2022	20:00	0.9	225	28/04/2022	20:00	0.4	90
25/04/2022	21:00	0.9	67.5	26/04/2022	21:00	0.9	315	27/04/2022	21:00	1.3	112.5	28/04/2022	21:00	0.9	112.5
25/04/2022	22:00	0.9	67.5	26/04/2022	22:00	0.9	315	27/04/2022	22:00	0.9	180	28/04/2022	22:00	0.4	112.5
25/04/2022	23:00	0.9	90	26/04/2022	23:00	0.9	90	27/04/2022	23:00	0.4	180	28/04/2022	23:00	0.4	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
29/04/2022	0:00	1.3	112.5	30/04/2022	0:00	0.4	292.5								
29/04/2022	1:00	1.3	135	30/04/2022	1:00	0.4	270								
29/04/2022	2:00	1.3	157.5	30/04/2022	2:00	0.4	225								
29/04/2022	3:00	0.4	135	30/04/2022	3:00	0.4	112.5								
29/04/2022	4:00	0.4	135	30/04/2022	4:00	0.4	90								
29/04/2022	5:00	0.9	135	30/04/2022	5:00	0.9	112.5								
29/04/2022	6:00	1.3	112.5	30/04/2022	6:00	0.4	90								
29/04/2022	7:00	1.3	90	30/04/2022	7:00	0.4	112.5								
29/04/2022	8:00	0.9	90	30/04/2022	8:00	0.9	112.5								
29/04/2022	9:00	0.9	112.5	30/04/2022	9:00	0.9	112.5								
29/04/2022	10:00	0.9	112.5	30/04/2022	10:00	0.9	90								
29/04/2022	11:00	0.9	112.5	30/04/2022	11:00	0.9	112.5								
29/04/2022	12:00	0.9	112.5	30/04/2022	12:00	0.9	112.5								
29/04/2022	13:00	1.3	67.5	30/04/2022	13:00	1.8	112.5								
29/04/2022	14:00	1.3	112.5	30/04/2022	14:00	1.8	22.5								
29/04/2022	15:00	1.3	112.5	30/04/2022	15:00	1.3	112.5								
29/04/2022	16:00	0.9	22.5	30/04/2022	16:00	0.9	90								
29/04/2022	17:00	0.9	45	30/04/2022	17:00	0.9	135								
29/04/2022	18:00	0.9	315	30/04/2022	18:00	1.3	112.5								
29/04/2022	19:00	0.9	247.5	30/04/2022	19:00	1.3	337.5								
29/04/2022	20:00	1.3	67.5	30/04/2022	20:00	0.9	22.5								
29/04/2022	21:00	1.8	22.5	30/04/2022	21:00	0.4	292.5								
29/04/2022	22:00	1.8	112.5	30/04/2022	22:00	0.4	90								
29/04/2022	23:00	0.9	112.5	30/04/2022	23:00	0.4	67.5								

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Hong Kong Children's Hospital

Appendix G – 24-hr TSP monitoring results and graphical presentation

Location: AM3 – Sky Tower

Start Date	Weather	Air Temp.	Atmospheric Pressure	Filter we	eight (g)	Particulate	Elapse	e Time	Sampling Time	Flow (cf		Av. Flow	Total vol.	Conc.
		(°C)	(hPa)	Initial	Final	weight (g)	Initial	Final	(min)	Initial	Final	(m ³ /min)	(m ³)	$(\mu g/m^3)$
04/04/2022	Sunny	25.6	1022.2	15.2487	15.4272	0.1785	4363.12	4387.14	1441	50	50	1.40	2024	88
09/04/2022	Sunny	28.5	1013.8	18.2879	18.4529	0.1650	4388.33	4412.35	1441	52	52	1.45	2088	79
14/04/2022	Sunny	31.5	1008.4	15.2878	15.4994	0.2116	4413.37	4437.39	1441	52	52	1.44	2071	102
20/04/2022	Sunny	25.5	1013.4	18.2423	18.4275	0.1852	4438.87	4462.89	1441	54	54	1.51	2181	85
25/04/2022	Sunny	31.6	1008.6	15.2001	15.2561	0.0560	4463.24	4487.25	1441	52	52	1.44	2070	27
30/04/2022	Sunny	26.2	1012.3	15.0384	15.0982	0.0598	4487.55	4511.57	1441	50	50	1.40	2012	30
												Maxir	num	102
												Minir	num	27
												Aver	age	69
												Action	Level	182
												Limit	Level	260

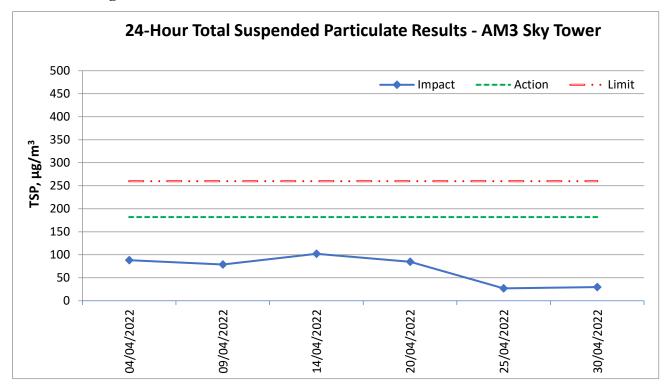
Location: AM4(A) – The Hong Kong Society for the Blind's Factory cum Sheltered Workshop

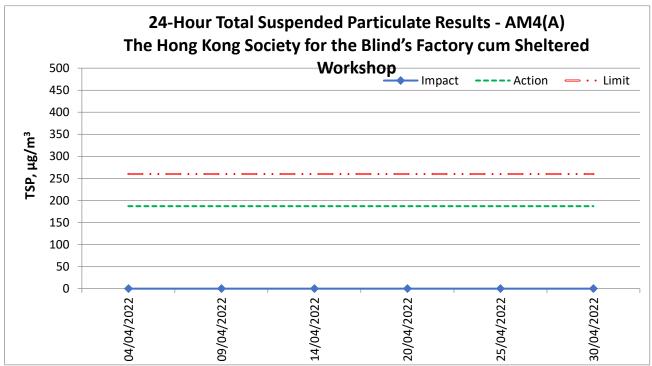
Start Date	Weather	Air Temp.	Atmospheric Pressure	Filter we	eight (g)	Particulate	Elapse	e Time	Sampling Time	Flow (cf		Av. Flow	Total vol.	Conc. $(u = \sqrt{m^3})$
		(°C)	(hPa)	Initial	Final	weight (g)	Initial	Final	(min)	Initial	Final	(m ³ /min)	(m ³)	$(\mu g/m^3)$
/														
/														
/														
/														
/														
/														
												Maxir	num	
NOTE:	1 6001	D 10 T1		6 (1 D)'	1	C1 1/ 1 1	7 1 1 (4)		6.1	., .		Minin	num	
			Hong Kong Society February 2022 and									Aver	age	
			e assess limitation			ia not conduct n	npuet monte	51115 011 1001	top: 110 24-110	ui i 51 liik	intoring	Action	Level	187
					-							Limit l	Level	260

Start Date	Weather	Air Temp.	Atmospheric Pressure	Filter we	eight (g)	Particulate	Elapse	e Time	Sampling Time	Flow (cf		Av. Flow	Total vol.	Conc.
		(°C)	(hPa)	Initial	Final	weight (g)	Initial	Final	(min)	Initial	Final	(m ³ /min)	(m ³)	$(\mu g/m^3)$
04/04/2022	Sunny	25.6	1022.2	19.0716	19.2172	0.1456	8866.84	8890.86	1441	50	50	1.41	2028	72
09/04/2022	Sunny	28.5	1013.8	17.8163	17.9538	0.1375	8891.91	8915.93	1441	50	50	1.39	2010	68
14/04/2022	Sunny	31.5	1008.4	15.1206	15.3312	0.2106	8916.03	8940.05	1441	48	48	1.33	1912	110
20/04/2022	Sunny	25.5	1013.4	18.1907	18.3821	0.1914	8941.09	8965.11	1441	48	48	1.34	1937	99
25/04/2022	Sunny	31.6	1008.6	18.3529	18.4222	0.0693	8965.55	8989.56	1441	48	48	1.33	1911	36
30/04/2022	Sunny	26.2	1012.3	14.8894	14.9576	0.0682	8989.94	9013.95	1441	52	52	1.46	2098	33
												Maxim	num	110
												Minim	num	33
												Avera	nge	70
												Action I	Level	181
												Limit L	level	260

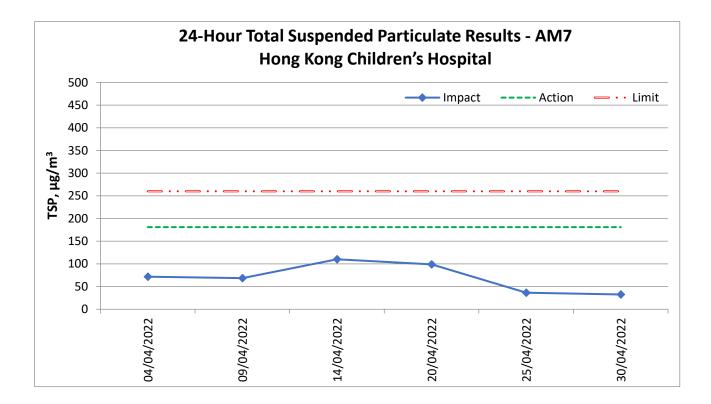
Location: AM7 – Hong Kong Children's Hospital

24-hour average TSP





NOTE: Due to the outbreak of COVID 19, The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), one of the impact monitoring stations, did not open to public starting from 23 February 2022 and Environmental Team could not conduct impact monitoring on roof top. No 24-hour TSP monitoring was conducted at AM4(A) because of the assess limitation in the reporting month.



Appendix H – 1-hr TSP monitoring results and graphical presentation

Date	Measure	emer	nt Period	1-hr TSP concentration, $\mu g/m^3$	Weather
	9:00	-	10:00	65	
04/04/2022	10:00	-	11:00	72	Sunny
	11:00	-	12:00	73	
	13:00	-	14:00	59	
09/04/2022	14:00	-	15:00	64	Sunny
	15:00	-	16:00	64	-
	9:00	-	10:00	88	
14/04/2022	10:00	-	11:00	88	Sunny
	11:00	-	12:00	93	
	9:00	-	10:00	62	
20/04/2022	10:00	-	11:00	63	Sunny
	11:00	-	12:00	70	
	13:00	-	14:00	32	
25/04/2022	14:00	-	15:00	35	Sunny
	15:00	-	16:00	35	
	13:00	-	14:00	38	
30/04/2022	14:00	-	15:00	41	Sunny
	15:00	-	16:00	40	
Μ	aximum			93	
Μ	linimum			32	
A	Average			60	
	tion Leve			297	
Liı	nit Level			500	

Location:

AM3 -

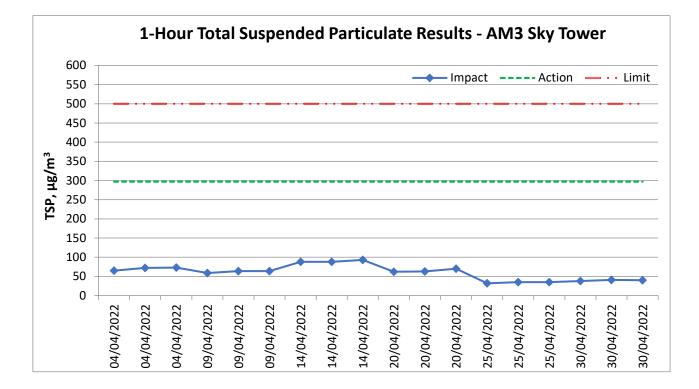
Sky Tower

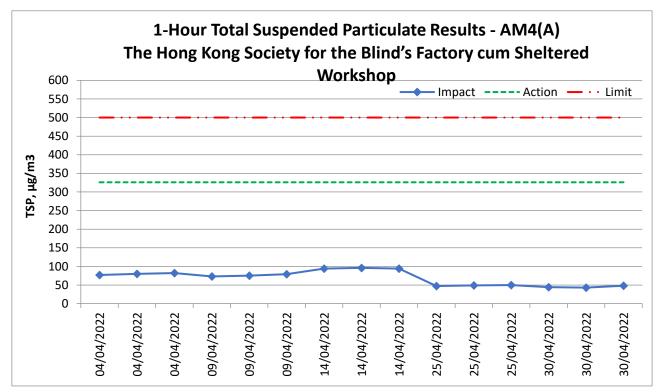
	Date	Measure	mer	nt Period	1-hr TSP concentration, $\mu g/m^3$	Weather
Location:		9:00	-	10:00	77	
AM4(A) -	04/04/2022	10:00	-	11:00	80	Sunny
. ,		11:00	-	12:00	82	
		9:00	-	10:00	73	
Society for the	09/04/2022	10:00	-	11:00	75	Sunny
Blind's Factory		11:00	-	12:00	79	
cum Sheltered		13:00	-	14:00	94	
Workshop	14/04/2022	14:00	-	15:00	96	Sunny
workshop		15:00	-	16:00	94	
		9:00	-	10:00	75	
	20/04/2022	10:00	-	11:00	79	Sunny
		11:00	-	12:00	80	
		13:00	-	14:00	47	
	25/04/2022	14:00	-	15:00	49	Sunny
		15:00	-	16:00	50	
		13:00	-	14:00	44	
	30/04/2022	14:00	-	15:00	43	Sunny
		15:00	-	16:00	48	
	Μ	aximum			96	
	Μ	linimum			43	
	A	Average			70	
	Act	tion Leve	1		326	
		nit Level		((1 D	500	1 (ANGA(A))

NOTE: Due to the outbreak of COVID 19, The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), one of the impact monitoring stations, did not open to public starting from 23 February 2022 and Environmental Team could not conduct impact monitoring on roof top. 1-hour TSP monitoring was conducted on the ground floor outside AM4(A) with facing to the Project Site because of the access limitation in the reporting month.

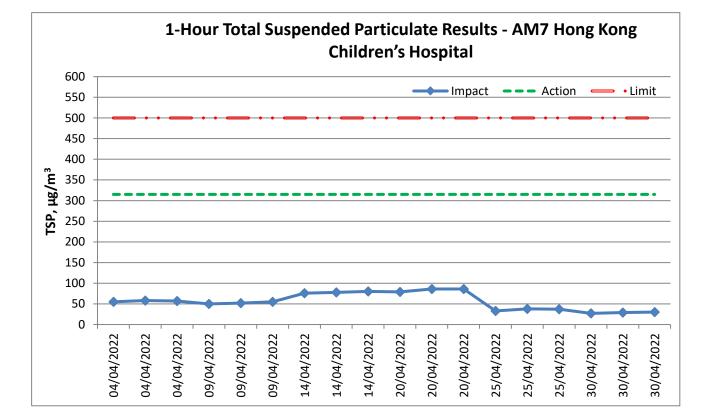
		Date	Meas P	sure erio		1-hr TSP concentration, $\mu g/m^3$	Weather
Location:			13:00	-	14:00	55	
AM7 -		04/04/2022	14:00	-	15:00	58	Sunny
			15:00	-	16:00	57	-
Hong	Kong		13:00	-	14:00	50	
Children's		09/04/2022	14:00	-	15:00	52	Sunny
Hospital			15:00	-	16:00	55	-
			9:00	-	10:00	76	
		14/04/2022	10:00	-	11:00	78	Sunny
			11:00	-	12:00	80	-
			13:00	-	14:00	79	
		20/04/2022	14:00	-	15:00	86	Sunny
			15:00	-	16:00	86	
			9:00	-	10:00	33	
		25/04/2022	10:00	-	11:00	38	Sunny
			11:00	-	12:00	37	
			9:00	-	10:00	27	
		30/04/2022	10:00	-	11:00	29	Sunny
	-		11:00	-	12:00	30	
		M	aximum			86	
		М	inimum			27	
		A	verage			56	
		Act	ion Leve	1		315	
		Lir	nit Level			500	

1-hour average TSP





NOTE: Due to the outbreak of COVID 19, The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (AM4(A)), one of the impact monitoring stations, did not open to public starting from 23 February 2022 and Environmental Team could not conduct impact monitoring on roof top. 1-hour TSP monitoring was conducted on the ground floor outside AM4(A) with facing to the Project Site because of the access limitation in the reporting month.



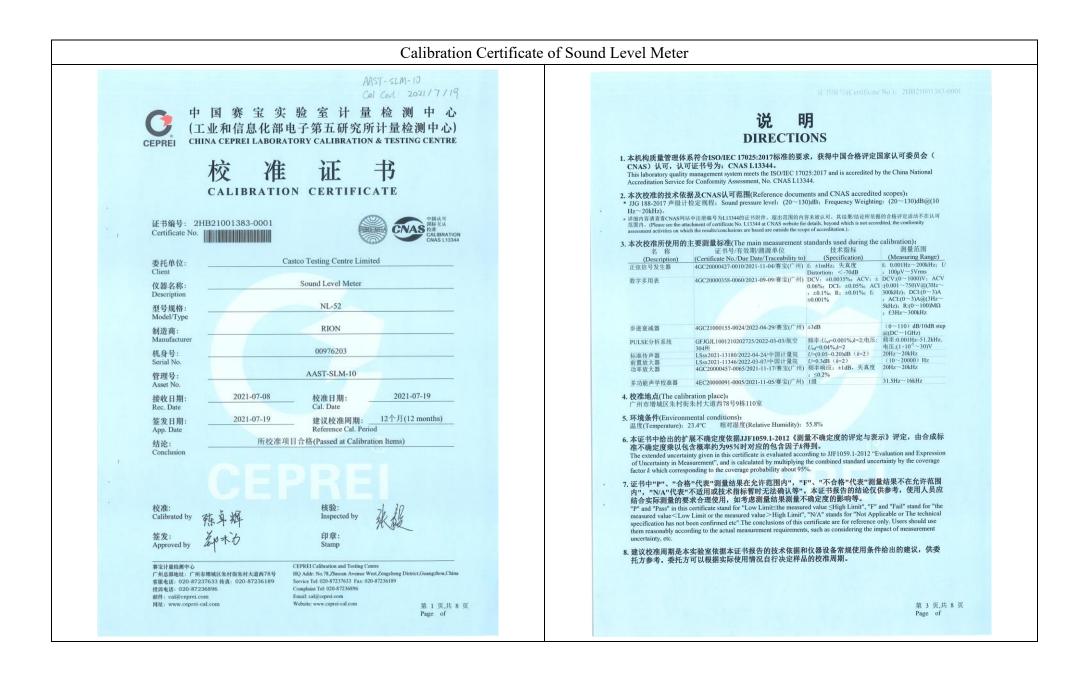
Appendix I – Event and Action Plan for air quality

.		Actio	on	
Event	ET	IEC	Supervisor / ER	Contractor
Action Level being exceeded by one sampling	 Identify source and investigate the causes of exceedance; Inform Contractor, IEC and Supervisor /ER; Repeat measurement to confirm finding. 	 Check monitoring data 1 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 and investigate the causes of exceedance; Inform Contractor, IEC and Supervisor /ER; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial 	submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures;	notification of exceedance in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;	 Discuss with ET and IEC on proper remedial actions; Submit proposals for remedial actions to Supervisor /ER and IEC within three working day of notification; Implement the agreed
	 actions required; 5. Assess the effectiveness of Contractor's remedial actions; 6. If exceedance continues, arrange meeting with IEC and Supervisor /ER; 7. If exceedance stops, cease additional monitoring. 	measures.	 Supervise implementation of remedial measures; Conduct meeting with ET and IEC if exceedance continues. 	proposals; 4. Amend proposal if appropriate.
Limit Level being exceeded by one sampling	 Identify source and investigate the causes of exceedance; Inform Contractor, IEC, Supervisor /ER, and EPD; Repeat measurement to confirm finding; Assess effectiveness of 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss possible remedial measures with ET and Contractor; Advise the Supervisor /ER 	notification of exceedance in writing; 2. Notify Contractor;	 Take immediate action to avoid further exceedance; Discuss with ET and IEC on proper remedial actions; Submit proposal for remedial actions to Supervisor /ER and IEC

E (Ac	tion	
Event	ET	IEC	Supervisor / ER	Contractor
	Contractor's remedial actions and keep EPD, IEC and Supervisor /ER informed of the results.	on the effectiveness of the proposed remedial measures.	 implemented; 4. Supervise implementation of remedial measures; 5. Conduct meeting with ET and IEC if exceedance continues. 	within three working days of notification;4. Implement the agreed proposals.
Limit Level being exceeded by two or more consecutive sampling	 Notify IEC, Supervisor /ER, Contractor and EPD; Repeat measurement to confirm findings; Carry out analysis of Contractor's working procedures to identify source and investigate the causes of exceedance; Increase monitoring frequency to daily; Arrange meeting with IEC, Supervisor /ER and Contractor to discuss the remedial action to be taken; Assess effectiveness of Contractor's remedial actions and keep EPD, IEC 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with Supervisor /ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the Supervisor /ER accordingly. 	notification of exceedance in writing; 2. Notify Contractor;	 Take immediate action to avoid further exceedance; Discuss with ET and IEC on proper remedial actions; Submit proposal for remedial actions to Supervisor /ER and IEC within three working days of notification; Implement the agreed proposals; Submit further remedial actions if problem still not under control; Stop the relevant portion of works as instructed by the Supervisor /ER until the exceedance is abated.
	and Supervisor /ER informed of the results;7. If exceedance stop, cease additional monitoring.			

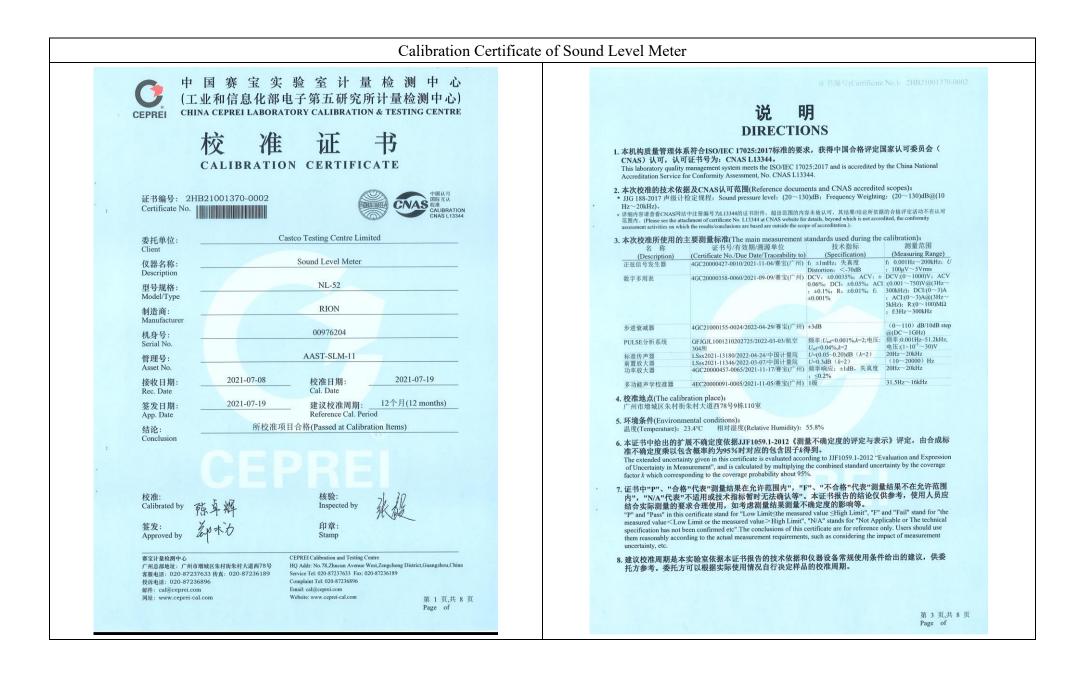
Appendix J – Calibration certificates, catalogue of noise monitoring equipment

Spec	ifications	Fizo.	120.					
				Data	recall memor		Allows viewing of stored data	an be saved in internal memory, for later reca
Applicabl	e standards	NL-52	NL-42	Setup	memor	y	Start up via file settings previou	
Approabl	e standards	ANSI S1.4-1983 Type 1	ANSI S1.4-1983 Type 2		form recor e format		Uncompressed waveform WAV	E filo
		ANSI S1.4A-1985 Type 1 ANSI S1.43-1997 Type 1	ANSI S1.4A-1985 Type 2 ANSI S1.43-1997 Type 2	Sa	mpling fre	quency	Select 48 kHz, 24 kHz or 12 kH	
		JIS C 1509-1: 2005 Class 1	JIS C 1509-1: 2005 Class 2		ata length		Select 24 bit or 16 bit Output DC signals using a frequence	y weighting characteristic selected by processin
		WEEE Directives, Chinese RoHS	8. C, Low Voltage Directive 2006/95/EC), 6 (export model for China only)			put voltage	2.5 V, 25 mV / dB at bar graph (display full scale
Measure	ment functions	Simultaneous measurement of the weighting and frequency weighting	e following items, with selected time		AC out	tput	processing or by A, C, Z-weight	ency weighting characteristic selected by ing.
Proces	ssing (main ch)	Instantaneous sound pressure le			Out	put voltage	1 V (rms values) at bar graph d	isplay full scale or output exceeds the set value
		Equivalent continuous sound pre Sound exposure level: LE	ssure level: Leg		output		(max. applied voltage 24 V, max.	current 60 mA, allowable dissipation 300 mW
		Maximum sound pressure level:		USBC			Allows USB to be connected to a Allows USB to be controlled via a	computer and recognized as a removable dis communication commands
		Minimum sound pressure level: L Percentile sound levels: LN (0.1 to	.min 99.9 %, 0.1-increment steps, max. 5 values)	RS-23	32C com	nmunication	Allows for RS-232C communication	ation via use of a dedicated cable
	ssing (sub ch)	Instantaneous sound pressure le	vel: Lp			us output * 2 stantaneous value	Lp	
Additio	onal processing	In addition to main processing ite for simultaneous processing:	rms, one of the following can be selected	dat		rocessed value	Leq, Lmax, Lmin, Lpeak 100 ms	
		C-weighted equivalent continuou		Print	-	91 V 81	Printing of measurement results	
		C-weighted peak sound level: Lc Z-weighted peak sound level: Lz	peak		er require attery life			e or rechargeable batteries) or external power supply Ni-MH secondary battery: 25 h
		I-time-weighted equivalent continue Maximum I-time-weighted equivale	ous sound level: LAIeq *2 nt continuous sound level: LAImax*2		-		At the maximum * Depends on	the setting
		The power average of the maximum	h level of each 5 second interval: LAtm 5		C adapte temal po	r ower voltage	NC-98C (NC-34 for previous me 5 to 7 V (rated voltage: 6 V)	odels cannot be used)
			processing synchronizes with the frequency weighting nel has A-weighting, LAtm5 can be selected.	Cu	urrent co	nsumption	Approximately 90 mA (normal of	peration, rated voltage)
		When C-weighting (Z-weighting) is sele	ected, the additional processing L_{Ceq} and L_{Cpeak}	Ambie condit	ent Te tions H	emperature lumidity	-10 to +50 °C 10 to 90 % RH (non-condensing	3)
Measurin	g time	(Lzpeak) are selectable. 10 s, 1, 5, 10, 15, 30 m, 1, 8, 24	h, and manual (maximum 24 h)	Dustp		ter-resistant	IP code: IP54 (except for micro See precautions regarding wate	
Microphone	Type Sensitivity level	UC-59	UC-52 -33 dB	Dimer	nsions, v	weight	Approx. 250 (H) x 76 (W) x 33 m	m(D), approx. 400 g (with batteries)
Measure	ment range	A-weighting: 25 dB to 138 dB	-55 05	Suppl	lied acce	essories		-10 x 1, Windscreen fall prevention rubber x 1, batteries x 4, SD card 512 MB×1 (NX-42EX
		C-weighting: 33 dB to 138 dB Z-weighting: 38 dB to 138 dB					preinstalled model only)	
		C-weighting peak sound level: 55		Opti	ions			
Inherent	A-weighting	Z-weighting peak sound level: 60 17 dB or less	dB to 141 dB 19 dB or less				luct name	Product number
noise	C-weighting	25 dB or less	27 dB or less				n (Inst.on 512 MB SD card) am*2 (Inst.on 2 GB SD card)	NX-42EX NX-42WR
Frequenc	Z-weighting by range	30 dB or less 20 Hz to 20 kHz	32 dB or less 20 Hz to 8 kHz				rsis program*2 (Inst.on 512 MB SD card)	NX-42RT
	cy weighting	A, C, and Z					Inst.on 512 MB SD card) for environmental measurement	NX-42FT AS-60
Time wei Level ran	ige	F (Fast) and S (Slow) Single range (Linearity range: 11	3 dB)	Data i (Includ	managen des the o	ment software ctave and 1/3 (for environmental measurement octave data management software)	AS-60RT
	ph display range max g of bar graph display	Max. 110 dB (20 to 130 dB) Set the upper/ lower limit in 10 dl	3 increments	Data i (Inclu	managen udes the	nent software vibration leve	for environmental measurement el data management software)	AS-60∨M
RMS det	ection circuit	Digital processing method		Wave	eform an	alysis softwa		CAT-WAVE
Sampling	l cycle	20.8 µs (Lp, Leq, LE, Lmax, Lmin, L; 100 ms (LN)	peak : sampling frequency: 48 kHz)		Card 512 Card 2 GE			SD-512M SD-2G
Calibratio	n		on performed according to IEC and JIS standards,		dapter (1 ery pack	100 ∨ to 240	∨)	NC-98C BP-21
Correctio	n functions	Windscreen correction:	sustic calibration performed with the NC-74.	Micro	ophone e	extension cab	les	EC-04 (from 2 m)
		Compliant with IEC 61672-1 and JIS C Diffuse sound field correction:	1509-1 standards when the windscreen is installed.		-Pin outp parator o	out code output cable		CC-24 CC-42C
		Correction of frequency charact	eristics in order to comply with standards	Printe	er			DPU-414
Delay tim	le	(ANSI S1.4) in diffuse sound field The meter can be set to start measured	I. suring a specified time (OFF, 1, 3, 5 or 10 s)		er cable 32C seri	ial 1/O cable		CC-42P CC-42R
		after the start button has been pre	ssed or when a user-set trigger is exceeded.	USB	cable			-
back era	se function	When the PAUSE key is pressed (user selectable) 0, 1, 3 or 5 s da	to pause measurement, the preceding ita are excluded from processing.	All-we		rindscreen		NC-74 WS-15
Display		Backlit semitransparent color TF	T LCD display WQVGA (400 x 240 dots)			nounting ada on windscree		WS-15006 WS-16
			r:1 sा≣Bar graph update frequency: 100 ms	Soun	Id level n	neter tripod		ST-80
Store M	anual Number of data	Data for measurement results are s Internal memory: max. 1000 sets	stored manually in single address increments.	∗1Use	e Rion full	rindscreen trij ly guaranteed p	roducts. *2 NX-42EX required (sold	ST-81 separately). *3 NX-42WR required (sold separate
88		SD Card: depends on the capaci	ty of the SD Card ∗1	*4 Pro	otection a	against harmf regarding wa	ful dust and water splashing from	any direction.
EEEA	uto*2	Instantaneous values (Lp mode) stored continuously and automat	and processed values (Leq mode) are ically at preset intervals.	Before	e use, ver	rify that the rul	bber bottom cover and the battery	
I E	Lp sampling cycle	100 ms, 200 ms, 1 s, Leg 1s		io mai	mitain the	water and du	ist proof rating, internal packing rej	placement is required every two years (at cost
	Leg sampling cycle Measurement Time							ISO 14001
Window	/s is a trademo	rk of Microsoft Corporation.						ISO 14001 RION CO., LTD.
		to change without notice.						ISO 14001 RION CO., LID. ISO 9 0 0 1 RION CO., LTD.
Distribu	ited by:							
				1				0., LTD.
				0.00			tp://www.rion.co.jp/eng	-
							notomachi, Kokubu 7888 Fax: +81-42-	nji, Tokyo 185-8533, Japaı 359-7442
				101.	514	.2 000-		
			e toxic chemicals on our policy.					



C. CEPREI		证书编号(Certifica	te No.): 2HB2100138	3-0001	CEPREI			证书编号	글(Certificate No.):	2HB2100138	3-0001
					4 A计权特性(A-1	Weighting Cha	racteristic)		Y 1 1 1 1 1 1		
1 外观与工作正常性检查(#		Check)			频率	实测值	理论值	误差	允许误差	结论	U
	果准确度的因素和缺陷。	surement result accuracy of	the certificate		(Frequency)	(Actual)	(Theoretical value)	(Error)	(Limit)	(Pass/Fail)	(k=2)
There are no factor and	d delect that affect the mea	surement result accuracy of	the certificate.		(Hz)	(dB)	(dB)	(dB)	(dB)	(P/F)	(dB)
:指示声级调整 (Indication	SPI Calibration)		频率(Frequency)=10	00Hz	20	-49.2	-50.5	1.3	±2.0	Р	0.5
传声器型号	传声器编号	放大器型号			25	-44.2	-44.7	0.5	+2.0 ~ -1.5	Р	0.5
Microphone Type)	(Microphone SN.)	(Preamplifier 1			31.5	-39.4	-39.4	0.0	±1.5	Р	0.5
UC-59	15764	NH-25	76321		40	-34.4	-34.6	0.2	±1.0	Р	0.5
00.57	10104				50	-30.3	-30.2	-0.1	±1.0	Р	0.5
声校准器型号	标准声压级	校准前示值	校准后示值	U	63	-26.0	-26.2	0.2	±1.0	Р	0.5
(Calibrator Type)	(Reference SPL)	(Before Calibration)	(After Calibration)	(<i>k</i> =2)	80	-22.4	-22.5	0.1	±1.0	Р	0.5
(cumbraner rypt)	(dB)	(dB)	(dB)	(dB)	100	-19.1	-19.1	0.0	±1.0	Р	0.5
4226	94.0	94.1	94.1	0.2	125	-16.0	-16.1	0.1	±1.0	Р	0.5
					160	-13.2	-13.4	0.2	±1.0	Р	0.5
级线性 (Level Linearity)					200	-10.8	-10.9	0.1	±1.0	Р	0.5
3.1 参考级量程 (Reference	Range)	顾率(Frequency): 8000Hz			250	-8.6	-8.6	0.0	±1.0	Р	0.5
	起始点指示声	级(Sound Level Indication	of Start Point): 90.0 d	B	315 400	-6.6	-6.6	0.0	±1.0	Р	0.4
起始点以上间隔100	由B点的最大误差(Maximu	m Error for each 10dB abo	ve Start Point): -0.2 d	IB	500	-4.7	-4.8	0.1	±1.0	Р	0.4
			U (k=2) 0.6 d	IB	630	-3.3 -1.9	-3.2 -1.9	-0.1	±1.0	Р	0.4
上限以下5dB间隔1dB点	的最大误差(Maximum Err	ror for each 1dB below Upp	per Limit 5dB): -0.2 d	IB	800	-0.8	-0.8	0.0 0.0	±1.0	Р	0.4
			U (k=2) 0.6 d	IB	1000(Ref.)	0.0	0.0	0.0	±1.0 ±0.7	P	0.4
起始点以下间隔100	dB点的最大误差(Maximu	m Error for each 10dB belo	ow Start Point): -0.2 d	IB	1250	0.5	0.6	-0.1	±0,7 ±1.0	P	0.4 0.6
			U (k=2) 0.6 d	IB	1600	0.9	1.0	-0.1	±1.0	P	0.6
下限以上5dB间隔1dB点	的最大误差(Maximum En	ror for each 1dB above Lov	ver Limit 5dB): -0.2 o	IB	2000	1.1	1.2	-0.1	±1.0	P	0.6
			U (k=2) 0.6 0	IB	2500	1.0	1.3	-0.3	±1.0	p	0.6
					3150	0.9	1.2	-0.3	±1.0	P	0.6
.2 其它级量程 (Other Rar		頻率(Frequency): 1000Hz			4000	1.2	1.0	0.2	±1.0	P	0.6
		级(Sound Level Indication			5000	0.3	0.5	-0.2	±1.5	Р	0.6
起始点以上间隔10	dB点的最大误差(Maximu	im Error for each 10dB abo			6300	-0.3	-0.1	-0.2	+1.5 ~ -2.0	Р	0.6
I am to be and a set from the		C LUDIA I	U (k=2) 0.4 0		8000	-0.6	-1.1	0.5	+1.5 ~ -2.5	Р	0.6
上限以下5dB间隔1dB点	的載大误差(Maximum Er	ror for each 1dB below Up	$U \ (k=2) \qquad 0.4 \ otherwise $		10000	-2.4	-2.5	0.1	+2.0 ~ -3.0	Р	0.6
	四古的是十语第八	im Error for each 10dB belo			12500	-4.3	-4.3	0.0	+2.0 ~ -5.0	Р	1.0
起始点以下间隔10	dB 点的取入误差(Maximu	in Error for each fodB belo	$U \ (k=2) \ 0.4$		16000	-8.5	-6.6	-1.9	+2.5 ~ -16.0	Р	1.0
工用目上の面面もあま	的最大课差(Maximum Fr	ror for each 1dB above Lov			20000	-18.5	-9.3	-9.2	+3.0 ~ -00	Р	1.0
上版 27.30日间间10日层	WANG A BE GELWIN ANNUAL EL	Tor for each rub above Lov	U (k=2) 0.4								
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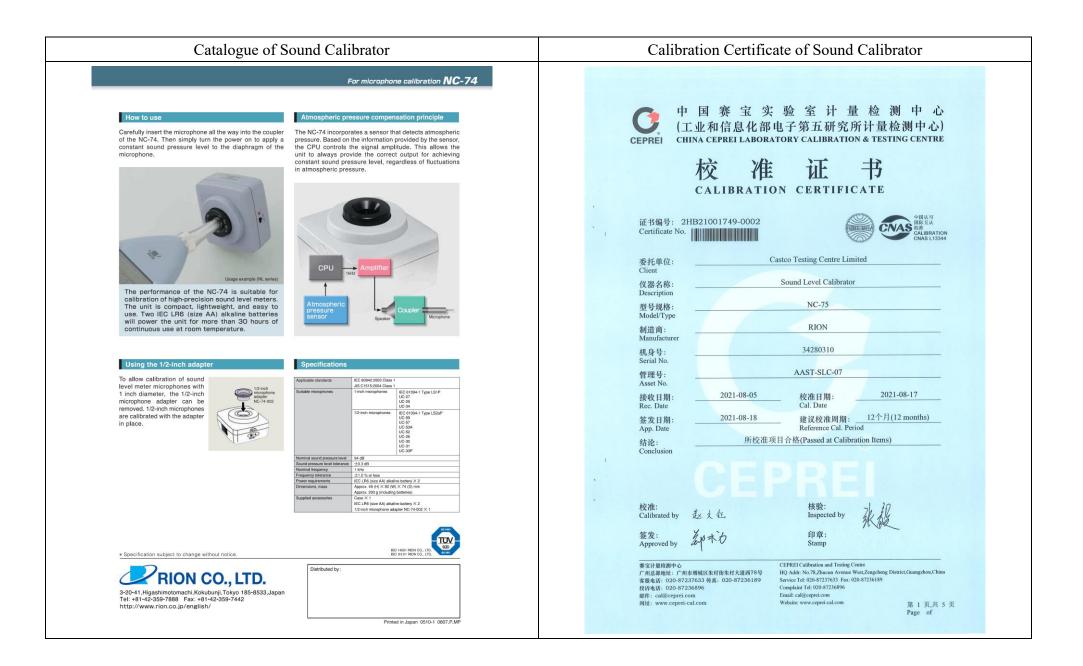
CEPREI			证书编号	(Certificate No.): 2	2HB21001383	3-0001	CEPREI 证书编号(Certificate No.): 2HB21001383-0001
5 C计权特性(C-W	eighting Char	acteristic)					6 自生噪声 (Autogenous noise)
频率	实测值	理论值	误差	允许误差	结论	U	计权 实测值 (Weighting) (Actual)
(Frequency)	(Actual)	(Theoretical value)	(Error)	(Limit)	(Pass/Fail)	(<i>k</i> =2)	(weighting) (Actual) (dB)
(Hz)	(dB)	(dB)	(dB)	(dB)	(P/F)	(dB)	A 15.3
20	-6.6	-6.2	-0.4	±2.0	Р	0.5	
25	-4.5	-4.4	-0.1	+2.0 ~ -1.5	P P	0.5 0.5	以下空白/No data hereafter
31.5	-2.9	-3.0	0.1 0.1	±1.5 ±1.0	P P	0.5	
40 50	-1.9 -1.3	-2.0	0.0	±1.0 ±1.0	Р	0.5	
63	-1.3	-1.5	0.1	±1.0	P	0.5	
80	-0.5	-0.5	0.0	±1.0	Р	0.5	
100	-0.2	-0.3	0.1	±1.0	Р	0.5	
125	-0.1	-0.2	0.1	±1.0	Р	0.5	
160	-0.1	-0.1	0.0	±1.0	Р	0.5	
200	0.0	0.0	0.0	±1.0	Р	0.5	
250	0.0	0.0	0.0	±1.0	Р	0.5	
315	0.0	0.0	0.0	±1.0	Р	0.4	
400	0.1	0.0	0.1	±1.0	P	0.4	
500	0.0	0.0	0.0 0.0	±1.0 ±1.0	P	0.4 0.4	
630 800	0.0	0.0 0.0	0.0	±1.0 ±1.0	P	0.4	
800 1000(Ref.)	0.0	0.0	0.0	±0.7	Р	0.4	
1250	-0.1	0.0	-0.1	±1.0	Р	0.6	
1600	-0.2	-0.1	-0.1	±1.0	Р	0.6	
2000	-0.3	-0.2	-0.1	±1.0	Р	0.6	
2500	-0.6	-0.3	-0.3	±1.0	Р	0.6	
3150	-0.8	-0.5	-0.3	±1.0	Р	0.6	
4000	-0.6	-0.8	0.2	±1.0	Р	0.6	
5000	-1.6	-1.3	-0.3	±1.5	Р	0.6	
. 6300	-2.1	-2.0	-0.1	$+1.5 \sim -2.0$	P P	0.6 0.6	
8000	-2.5	-3.0 -4.4	0.5 0.1	$+1.5 \sim -2.5$ $+2.0 \sim -3.0$	P	0.6	
10000 12500	-4.3 -6.3	-4.4	-0.1	$+2.0 \sim -3.0$ $+2.0 \sim -5.0$	Р	1.0	
12500	-0.5	-8.5	-2.0	$+2.5 \sim -16.0$	P	1.0	
20000	-20.4	-11.2	-9.2	+3.0 ~ -00	P	1.0	
2000	2011						
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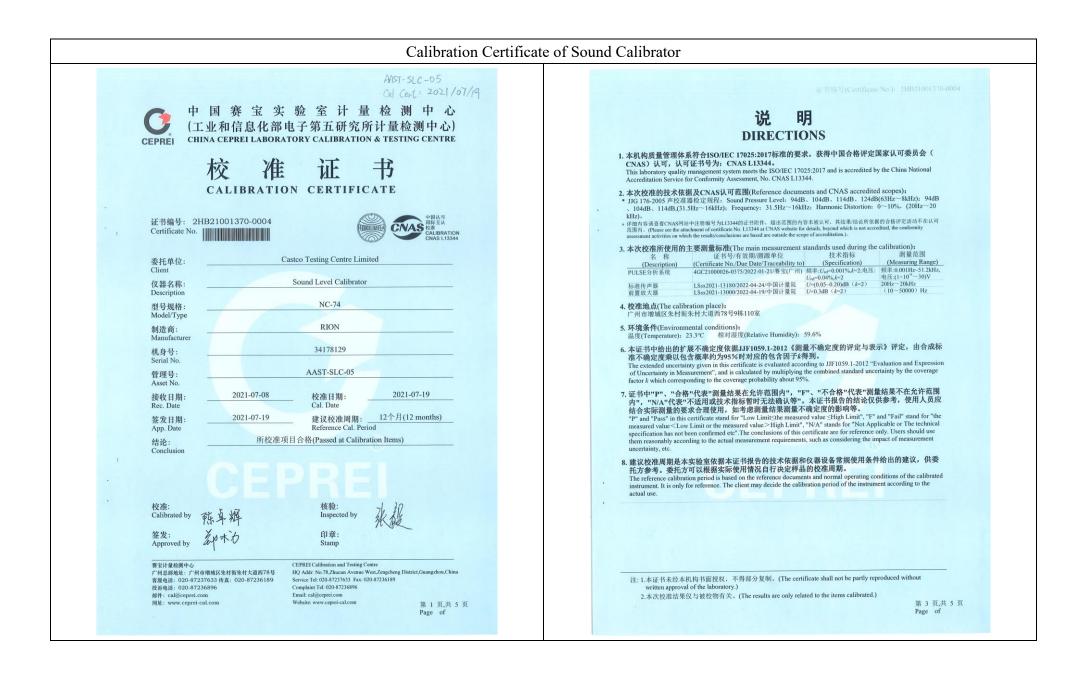
C.		证书编号(Certific	CEPREI			证书编号	号(Certificate No.):	2HB2000130	2-0001		
CEPREI		III. 11388 -5 (Certific	cate 140.): 2115200011	4 A计权特性(A-1	Weighting Cha	macteristic)					
1 外观与工作正常性检查		Check)			频率	实测值	理论值	误差	允许误差	结论	U
	结果准确度的因素和缺陷。				(Frequency)	(Actual)	(Theoretical value)	(Error)	(Limit)	(Pass/Fail)	(k=2)
There are no factor a	and defect that affect the cali	bration result accuracy of	the certificate.		(Hz)	(dB)	(dB)	(dB)	(dB)	(P/F)	(dB)
a the est she had toro date on the			istole on 11	00011-	20	-48.8	-50.5	1.7	±2.0	Р	0.5
2 指示声级调整 (Indicatio	n SPL Calibration) 传声器编号	放大器型	频率(Frequency)=1 号 放大器编号		25	-44.1	-44.7	0.6	+2.0 ~ -1.5	Р	0.5
传声器型号	作戶番编号 (Microphone SN.)	成人站至 (Preamplifier			31.5	-39.3	-39.4	0.1	±1.5	Р	0.5
(Microphone Type) UC-59	(Microphone SN.) 12133	(Preampriner NH-25			40	-34.4	-34.6	0.2	±1.0	Р	0.5
00-59	12155	111-25	, 5521		50	-30.2	-30.2	0.0	±1.0	Р	0.5
声校准器型号	标准声压级	校准前示值	校准后示值	U	63	-26.2	-26.2	0.0	±1.0	Р	0.5
(Calibrator Type)	(Reference SPL)	(Before Calibration)	(After Calibration)	(<i>k</i> =2)	80 100	-22.4	-22.5	0.1	±1.0	Р	0.5
	(dB)	(dB)	(dB)	(dB)	125	-19.1 -16.2	-19.1 -16.1	0.0	±1.0 ±1.0	P	0.5
4231	94.0	93.9	94.0	0.2	160	-13.2	-13.4	0.2	±1.0 ±1.0	P	0.5
					200	-10.8	-10.9	0.1	±1.0 ±1.0	P	0.5
3 级线性 (Level Linearity)					250	-8.7	-8.6	-0.1	±1.0	P	0.5
3.1 参考级量程 (Reference	• • •	页率(Frequency): 8000Hz			315	-6.6	-6.6	0.0	±1.0	Р	0.4
		汲(Sound Level Indication			400	-4.8	-4.8	0.0	±1.0	р	0.4
起始点以上间隔10	dB点的最大误差(Maximum	n Error for each 10dB abo			500	-3.2	-3.2	0.0	±1.0	р	0.4
I mentiod and a second state of a second	MELINAR'S P	e linki I	U (k=2) 0.6 0		630	-1.9	-1.9	0.0	±1.0	Р	0.4
上限以下5dB间脑1dB点	的最大误差(Maximum Erro	or for each 1dB below Opp	$U \ (k=2) \qquad 0.6 \ c$		800	-0.8	-0.8	0.0	±1.0	Р	0.4
おか古以下问题10	dB点的最大误差(Maximun	n Error for each 10dB belo			1000(Ref.)	0.0	0.0	0.0	±0.7	Р	0.4
ABAD W EX 1. HO HE LO	and which it is a function	a Litter for cach roub dete	U (k=2) 0.6 c		1250	0.6	0.6	0.0	±1.0	Р	0.6
下限以上5dB间隔1dB点	的最大误差(Maximum Erro	or for each 1dB above Low			1600 2000	1.0	1.0	0.0	±1.0	Р	0.6
			U (k=2) 0.6 d	IB	2500	1.2 1.3	1.2	0.0	±1.0	P	0.6
					3150	1.5	1.3	0.0	±1.0 ±1.0	P	0.6 0.6
3.2 其它级量程 (Other Ran	nge) 频	i率(Frequency): 1000Hz			4000	1.0	1.0	0.0	±1.0	P	0.6
		吸(Sound Level Indication			5000	0.6	0.5	0.1	±1.5	Р	0.6
起始点以上间隔10	dB点的最大误差(Maximun	n Error for each 10dB abov			6300	0.0	-0.1	0.1	+1.5 ~ -2.0	р.	0.6
			U (k=2) 0.4 d		8000	-1.0	-1.1	0.1	+1.5 ~ -2.5	р	0.6
上限以下5dB间隔1dB点	的最大误差(Maximum Erro	or for each 1dB below Upp			10000	-2.4	-2.5	0.1	+2.0 ~ -3.0	Р	0.6
おんよりて危険い。	出B点的最大误差(Maximum	Error for each 10dP hale	U (k=2) 0.4 d		12500	-4.4	-4.3	-0.1	+2.0 ~ -5.0	Р	1.0
起始息以下间隔100	ID 点的取入 庆 定(Maximum	LITOP for each found belo	$U \ (k=2) \qquad 0.4 \ d$		16000	-8.0	-6.6	-1.4	+2.5 ~ -16.0	Р	1.0
下限以上5dR间隔1dB占	的最大误差(Maximum Erro	r for each 1dB above I ow	and the second sec		20000	-14.2	-9.3	-4.9	+3.0 ~ -00	Р	1.0
L BOOT SUDJURI 10D WI	ALAN CONTRACTION FILE		U (k=2) 0.4 d								
	数据页(Data she	eet) ID: U071288	第 5 引 Page	页,共 8页	第 6 页,共 8 页 Page of		数据页(Data she	eet) ID: U	071288		

CEPREI			证书编号	(Certificate No.):	2HB2000130	2-0001	CEPREI 证书编号(Certificate No.): 2HB20001302-0001
5 C计权特性(C-W	eighting Cha	racteristic)					6 自生噪声 (Autogenous noise)
频率	实测值	理论值	误差	允许误差	结论	U	计权 实测值
(Frequency)	(Actual)	(Theoretical value)	(Error)	(Limit)	(Pass/Fail)	(<i>k</i> =2)	(Weighting) (Actual) (dB)
(Hz)	(dB)	(dB)	(dB)	(dB)	(P/F)	(dB)	(db) A 18.3
20	-6.3	-6.2	-0.1	±2.0	Р	0.5	n 100
25	-4.5	-4.4	-0.1	+2.0 ~ -1.5	P	0.5	以下空白/No data hereafter
31.5	-3.2	-3.0	-0.2	±1.5	P	0.5 0.5	
40	-2.0	-2.0	0.0	±1.0 ±1.0	P	0.5	
50	-1.4	-1.3 -0.8	-0.1 0.0	±1.0 ±1.0	P	0.5	
63 80	-0.8 -0.5	-0.8	0.0	±1.0	P	0.5	
100	-0.3	-0.3	0.0	±1.0	Р	0.5	
125	-0.2	-0.2	0.0	±1.0	р	0.5	
160	-0.1	-0.1	0.0	±1.0	Р	0.5	
200	0.0	0.0	0.0	±1.0	Р	0.5	
250	0.0	0.0	0.0	±1.0	Р	0.5	
315	0.0	0.0	0.0	±1.0	Р	0.4	
400	0.0	0.0	0.0	±1.0	Р	0.4	
500	0.0	0.0	0.0	±1.0	Р	0.4	
630	0.0	0.0	0.0	±1.0	Р	0.4	
800	0.0	0.0	0.0	±1.0	Р	0.4	
1000(Ref.)	0.0	0.0	0.0	±0.7	Р	0.4	
1250	0.0	0.0	0.0	±1.0	Р	0.6	
1600	-0.1	-0.1	0.0	±1.0	P	0.6	
2000	-0.2	-0.2	0.0	±1.0 ±1.0	P	0.6	
2500 3150	-0.3 -0.5	-0.3 -0.5	0.0	±1.0 ±1.0	P	0.6	
4000	-0.5	-0.5	0.0	±1.0	P	0.6	
5000	-1.2	-0.8	0.1	±1.5	Р	0.6	
6300	-1.9	-2.0	0.1	+1.5 ~ -2.0	р	0.6	
8000	-2.9	-3.0	0.1	+1.5 ~ -2.5	Р	0.6	
10000	-4.3	-4.4	0.1	+2.0 ~ -3.0	р	0.6	
12500	-6.4	-6.2	-0.2	+2.0 ~ -5.0	Р	1.0 .	
16000	-9.9	-8.5	-1.4	+2.5 ~ -16.0	Р	1.0	
20000	-16.2	-11.2	-5.0	+3.0 ~ -00	Р	1.0	
		数据页(Data s	heet) ID: U	J071288	第 7 Page	页,共 8 页 of	第 8 页,共 8 页 数据页(Data sheet) ID: U071288 Page of





i使 特别 号(Certificate No.): 2HB21001749-0002	G
2 <u>2</u>	CEPREI 证书编号(Certificate No.): 2HB21001749-0002
说 明	1 外观与工作正常性检查 (Appearance and Function Check)
DIRECTIONS	无影响证书中校准结果准确度的因素和缺陷。
 本机构质量管理体系符合ISO/IEC 17025:2017标准的要求,获得中国合格评定国家认可委员会(CNAS)认可,认可证书号为: CNAS L13344。 This laboratory quality management system meets the ISO/IEC 17025:2017 and is accredited by the China National 	There are no factor and defect that affect the calibration result accuracy of the certificate.
Accreditation Service for Conformity Assessment, No. CNAS L13344.	2 声压级 (Sound Pressure Level)
 本次校准的技术依据及CNAS认可范围(Reference documents and CNAS accredited scopes): JJG 176-2005 声校准器检定规程: Sound Pressure Level: 94dB、104dB、114dB、124dB(63Hz~8kHz): 94dB 、104dB、114dB(31.5Hz~16kHz): Frequency: 31.5Hz~16kHz: Harmonic Distortion: 0~10%, (20Hz~20 kHz). 	, 规定声压级 测量声压级 声压级差的绝对值 允许范围 结论 U
a 详细内容请查看CNAS网站中注册编号为L13344的证书附件, 超出范围的内容未按认可,其结果结论所依据的合格评定活动不在认可 范围内。(Plaase see the attachment of certificate No. L13344 at CNAS website for details, beyond which is not accredited, the conformity	(Prescribed SPL) (Measured SPL) (Absolute value of SPL) (Limit) (Pass/Fail) (k=2) (4B) (dB) (dB) (dB) (dB)
assessment activities on which the results/conclusions are based are outside the scope of accreditation.)-	
3.本次校准所使用的主要测量标准(The main measurement standards used during the calibration): 名称 近千号有效期/溯源单位 技术指标 測量范围 (Description) (Certificate No. Due Date Threeability to) (Specification) (Measuring Range) 标准作声器 [LSx2021-131802022-04-24/叶图计量版] U/C05-02.0018 (A=2) (INHz - 20kHz PULESE分析系统 4062100025-00135/2022-12-14/5% (U/F)(Measuring Range) U/Hz - 20kHz (INHz - 20kHz)	94 94.12 0.12 ≤0.40 P 0.10
F0LSE方前系统 4GC_210000205-05722022-05-2572-05-267 U (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	3 频率 (Frequency)
 校准地点(The calibration place): 广州市增域区朱村街朱村大道西78号9栋110室 	规定频率 测量频率 频率误差的绝对值 允许范围 结论 Urel
5 环境备件(Environmental conditions):	(Prescribed Fre.) (Measured Fre.) (Absolute value of Fre.) (Limit) (Pass/Fail) (k=2)
温度(Temperature): 22.9°C 相对湿度(Relative Humidity): 59.5%	(Hz) (%) (%) (%)
6. 本证书中给出的扩展不确定度依据JJF1059.1-2012《测量不确定度的评定与表示》评定,由合成标准不确定度乘以包含概率约为95%时对应的包含因子k得到。 The extended uncertainty given in this certificate is evaluated according to JJF1059.1-2012 "Evaluation and Expression of Uncertainty in Measurement", and is calculated by multiplying the combined standard uncertainty by the coverage	1000 1000.0 0.00 ≤1.00 P 0.10 4.总失真 (Distortion)
factor k which corresponding to the coverage probability about 95%.	+ 20 X 30 (Distortion)
7. 证书中"P"、"合格"代表"测量结果在允许范围内"、"F"、"不合格"代表"测量结果不在允许范围内"、"N/A"代表"不适用或技术指标暂时无法确认等"。本证书报告的结论仅供参考,使用人员应	规定声压级 规定频率 总失真 允许范围 结论 Urel
结合实际测量的要求合理使用,如考虑测量结果测量不确定度的影响等。 "P" and "Pass" in this certificate stand for "Low Limit⊴he measured value ≤High Limit", "F" and "Fail" stand for "the	(Prescribed SPL) (Measured Fre.) (Distortion) (Limit) (Pass/Fail) (k=2)
reasure value <1.00 Limit or the measured value > High Limit", "N/A" stands for "Not Applicable or The technical specification has not been confirmed etc". The conclusions of this certificate are for reference only. Users should use	(dB) (Hz) (%) (%) (%)
specification has not been continued etc. The conclusions of this certificate are for reference only. Oscia anothe dos them reasonably according to the actual measurement requirements, such as considering the impact of measurement uncertainty, etc.	94 1000 0.15 ≤3.00 P 5.0
8. 建议校准周期是本实验室依据本证书报告的技术依据和仪器设备常规使用条件给出的建议,供委托方参考。委托方可以根据实际使用情况自行决定样品的校准周期。 The reference calibration period is based on the reference documents and normal operating conditions of the calibrated instrument. It is only for reference. The client may decide the calibration period of the instrument according to the actual use.	以下空白/No data hereafter
注: 1.本证书未经本机构书面授权,不得部分复制。(The certificate shall not be partly reproduced without written approval of the laboratory.) 2.本次校准结果仅与被校物有关。(The results are only related to the items calibrated.)	· 数据页(Data sheet) ID: 013393 第 5 页,共 5 页 Page of



C						SPECIFICA	ATIONS				
CEPREI		证书纳	育号(Certificate	No.): 2HB210	001370-0004		ANEMOMETERS A410, TA430 AND TA440				
		ce and Function Check)				TIODELS IF	410, IA450 AND IA440				
	·校准结果准确度	的因素和缺陷。 hat affect the calibration resu	It accuracy of the	certificate							
There are no	factor and defect t	hat affect the calibration resu	it accuracy of the	certificate.		Velocity		Time Constant (TA	430, TA440))	
2 声压缓 (Sound Pro	essure Level)					Range (TA410) Range (TA430, 1 Accuracy (TA41	TA440) 0 to 30 m/s (0 to 6,000 ft/min)	User selectable External Meter Dir	mensions		
the starts of 17 Art.	测量声压级	声压级差的绝对值	允许范围	结论	U	Accuracy (TA430	(±5 ft/min), whichever is greater 7, TA440) ⁴⁶² ±3% of reading or ±0.015 m/s (±3 ft/min), whichever is greater	8.4 cm x 17.8 cm x 4	.4 cm (3.3 in.)	< 7.0 in. x 1.8 in.)
規定声压级 (Prescribed SPL)		户压载左印起对电 (Absolute value of SPL)	(Limit)	(Pass/Fail)	(k-2)	Resolution	0.01 m/s (1 ft/min)	Meter Weight with 0.27 kg (0.6 lbs.)	h Batteries		
(Prescribed SPL) (dB)	(Measured SFL)	(dB)	(dB)	(**********	(dB)	Duct Size (TA4		Meter Probe Dime	nsions		
94	94.29	0.29	≤0.40	Р	0.10	Dimensions	1 to 635 cm in increments of 0.1 cm (1 to 250 inches in increments of 0.1 in.)	Probe Length Probe Diameter of T	101.6 ip 7.0 m	cm (40 in.) m (0.28 in.)	
							ow Rate (TA430, TA440)	Probe Diameter of B		nm (0.51 in.)	
						Range	Actual range is a function of velocity, and duct size	Articulating Probe Articulating Section	e Dimension 19.7 c	s m (7.8 in.)	
3 頻率 (Frequency)						Temperature Range (TA410, 1	FA430) -18 to 93°C (0 to 200°F)	Length Diameter of Articulating Knuckle		m (0.38 in.)	
规定频率	测量频率	频率误差的绝对值	允许范围	结论	Unet	Range (TA440) Accuracy ³	-10 to 60°C (14 to 140°F) ±0.3°C (±0.5°F)	Power Requireme	nts		
(Prescribed Fre.)	(Measured Fre.)	(Absolute value of Fre.)	(Limit)	(Pass/Fail)	(<i>k</i> =2)	Resolution	0.1°C (0.1°F)	Four AA-size batteri	ies or AC adap	iter	,
(Hz)	(Hz)	(%)	(%)		(%)	Relative Humi Range	idity (TA440 only) 5 to 95% RH		TA410	TA430, TA430-A	TA440, TA440-
1000	1002.1	0.21	≤1.00	P	0.10	Accuracy ⁴ Resolution	±3% RH 0.1% RH	Velocity range 0 to 20.00 m/s (0 to 4000 ft/min)	+		
							perature (TA440 only)	Velocity range 0 to 30.00 m/s		+	+
4 总失真 (Distortio	in)					Range	5 to 60°C (40 to 140°F)	(0 to 6000 ft/min) Temperature	+	+	+
規定声压级	规定频率	总失真	允许范围	结论	Urel	Resolution	0.1°C (0.1°F)	Flow		+	+
(Prescribed SPL)			(Limit)	(Pass/Fail)	(k=2)	Dew Point (TA Range	-15 to 49°C (5 to 120°F)	Humidity, wet bulb, dew point			+
(dB)	(Hz)	(%)	(%)		(%)	Resolution	0.1°C (0.1°F)	Probe	Straight	Straight or -A articulated	Straight or articulate
94	1000	1.34	≤3.00	Р	5.0	Operating (Elect		Variable time constant		+	+
						Model TA410, T. Operating (Prob	e)	Manual data logging Auto save		+	+
以下空白/No data her	eafter					Model TA440 Operating (Prob		data logging Statistics		+	+
						Storage	-20 to 60°C (-4 to 140°F)	Statistics Review data		+	+
						Data Storage C Range	Capabilities (TA430, TA440) 12,700+ samples and 100 test IDs	LogDat2		+	
						Logging Interv	val (TA430, TA440)	downloading software Free Certificate		12	
						1 second to 1 ho	ur	of Calibration	+	+	+
							o change without notice.	¹ Temperature compensated of ² The accuracy statement beg	zins at 30 ft/min th	rough 4000 ft/min (0	15 m/s through 2
						Tsi and the Tsi logo and the Airflow logo and Lo	e registered trademarks, and Airflow. ogDat2 are trademarks of TSI Incorporated.	for the Model TA410, and 30 Models TA430 and TA440. ⁹ Accuracy with instrument c	ase at 25°C (77°F), i		
						VR. A	IRFLOW	for change in instrument ter ⁴ Accuracy with probe at 25°0 change in probe temperatur	mperature. C (77ºF). Add uncert	tainty of 0.2% RH/°C	
-	1	数据页(Data sheet) II	Dr 013393		第5页,共5页		NSTRUMENTS				
					Page of	Airflow Instrume Visit our website a	ents, TSI Instruments Ltd.				

	Room 2103, Te Tsuen Wan, NT,	chnology Plaza, 29-35 , Hong Kong 580106 Email: info						Room 2103, Te Tsuen Wan, NT	580106 Email: info	Sha Tsui Road,		ACCREDITED Certifiate #3815.01
Customer Informa Customer: Ca	ficate No.: CC032220	01 nited					Customer Informat Customer: Cas	cate No.: CC03322 ion .co Testing Centre Lin On Kui Street, Fanling	nited			
Equipment Identif Equipment Descrip	i <mark>cation</mark> tion Manufactu TSI	rer Model No. TA440	. Serial No. TA44012320		gned equipment No.: T-FLOW-02		Equipment Identifie Equipment Descript Air Velocity Meter	a tion ion Manufactu TSI	rer Model No. TA440	Serial No. TA4401706		igned equipment No. ST-FLOW-03
Air Velocity Meter Certificate Inform Date of Receipt: Date of Calibratio Due Date of Calib Calibration Proces	ation 21 January n: 25 January ration: N/A	2022	Calibration Con Adjustment: Appearance: Remark:		C, 53%RH, 1008hPa		Certificate Informa Date of Receipt: Date of Calibration Due Date of Calibra Calibration Proced	21 January 25 January ition: N/A		Calibration Co Adjustment: Appearance: Remark:	ndition: 24.3° N/A Good N/A	C, 53%RH, 1008hPa
Reference Equipr Equipment Descri Hot Wire Anemor		Model 9535	Serial No. T95351316004		piration Date July 2022		Reference Equipm Equipment Descrip Hot Wire Anemom	tion	Model 9535	Serial No. T95351316004		piration Date July 2022
Result of Calibrat Air Flow Rate	ion						Result of Calibratio	on				
Reference	Measured	Error (%)	Uncertainty	Technical	Technical		Reference	Measured	Error (%)	Uncertainty	Technical	Technical
Reading (m/s)	Reading (m/s)		(%FS)	Requirement	Reference Doc. Mfr's Spec.	.	Reading (m/s) 0.00	Reading (m/s) 0.00	N/A	(%FS) 3.6	Requirement ± 3%	Reference Doc. Mfr's Spec.
0.00	0.00	N/A -2.0	3.6	± 3% ± 3%	Mfr's Spec.		0.51	0.50	-2.0	3.6	± 3%	Mfr's Spec.
5.02	4.89	-2.6	3.6	± 3%	Mfr's Spec.		5.02	4.89	-2.6	3.6	± 3%	Mfr's Spec.
10.03	9.74	-2.9	3.6	± 3%	Mfr's Spec.		10.03	10.05	2.0	3.6	± 3%	Mfr's Spec.
of confidence of 95 Note2: The standard (s) ar accuracy and good Note3: The result reporter	%. A coverage factor of 2 is assu d instrument used in the calibr condition. In this certificate refer to the c this calibration certificate relate	umed unless explicitly stated, ration are traceable to nation condition of the instrument o	nal or international recognized st on the date of calibration and car and the result only applies to the	tandard and are calibrat rry no implication regar e calibration item as reco	internal estimated to have a level ted on a schedule to mantain the dring the long term stability of the elved.	×	of confidence of 95% Note2: The standard (s) and accuracy and good co Note3: The result reported i instrument.	A coverage factor of 2 is assu instrument used in the calibr ndition. this certificate refer to the c is calibration certificate relate	calculated in "Sushiartion and en- med unless explicitly stated. atom are traceable to national condition of the instrument on e only to the item calibrated, ar exed and Approved By	t or international recognized the date of calibration and c nd the result only applies to th	standard and are calibra arry no implication rega he calibration item as rec	ted on a schedule to maintair ding the long term stability o
Rex Tse	lon	hav fel		te Issue Date: 2	5 January 2022		Rex Tse	loc	uu fel		te Issue Date: 2	5 January 2022

Appendix K – Noise monitoring results and graphical presentation

	Temp	XX7 (1			Measured Noise Level at M11, dB(A)								
Date	(°C)	Weather	r	Гiı	ne	Baseline	L_{Aeq}	L _{A10}	L _{A90}	Limit			
04/04/2022	25.6	Sunny	9:52	-	10:22	68.3	72.6	75.8	62.1	75			
14/04/2022	31.5	Sunny	15:12	-	15:42	68.3	70.7	73.7	64.3	75			
20/04/2022	25.5	Sunny	9:59 - 10:29			68.3	71.8	75.2	62.1	75			
25/04/2022	31.6	Sunny	13:15	-	13:45	68.3	73.6	77.1	65.7	75			
					Maximum		73.6						
					Minimum		70.7						
					Average		72.3						

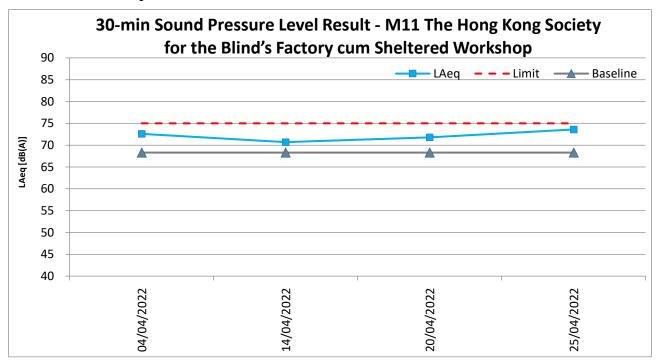
M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop

NOTE: Due to the outbreak of COVID 19, The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), one of the impact monitoring stations, did not open to public starting from 23 February 2022 and Environmental Team could not conduct impact monitoring on roof top. Impact monitoring was conducted on the ground floor outside M11 with facing to the Project Site because of the access limitation in the reporting month.

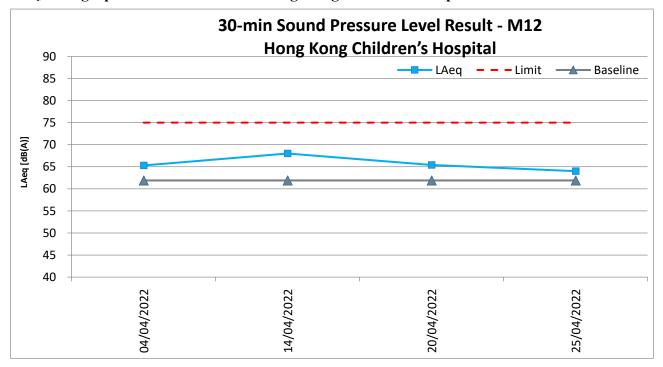
	Temp	XX7 (1			Measure	ed Noise Le	vel at M12	, dB(A)		Timi
Date	(°C)	Weather	r	Гir	ne	Baseline	L_{Aeq}	L _{A10}	L _{A90}	Limit
04/04/2022	25.6	Sunny	14:24	-	14:54	61.9	65.3	67.0	63.1	75
14/04/2022	31.5	Sunny	11:14	-	11:44	61.9	68.0	69.7	62.4	75
20/04/2022	25.5	Sunny	14:34	-	15:04	61.9	65.4	67.6	63.1	75
25/04/2022	31.6	Sunny	11:27	-	11:57	61.9	64.0	66.4	60.9	75
					Maximum		68.0			
					Minimum		64.0			
					Average		65.9]		

M12 - Hong Kong Children's Hospital

L_{Aeq}, 30-min graphical results of M11 - The Hong Kong Society for the Blind's Factory cum Sheltered Workshop



NOTE: Due to the outbreak of COVID 19, The Hong Kong Society for the Blind's Factory cum Sheltered Workshop (M11), one of the impact monitoring stations, did not open to public starting from 23 February 2022 and Environmental Team could not conduct impact monitoring on roof top. Impact monitoring was conducted on the ground floor outside M11 with facing to the Project Site because of the access limitation in the reporting month.



LAeq, 30-min graphical results of M12 - Hong Kong Children's Hospital

Appendix L – Event and Action Plan for noise

E-ror4		Act	tion	
Event	ET	IEC	Supervisor / ER	Contractor
Action Level being exceeded	 Notify Supervisor / ER, IEC and Contractor; Carry out investigation; Report the results of investigation to the IEC, Supervisor / ER and Contractor; Discuss with the IEC and Contractor on remedial measures required; Increase monitoring frequency to check mitigation effectiveness. (The above actions should be taken within 2 working days after the exceedance is 	 Review the investigation results submitted by the ET; Review the proposed remedial measures submitted by the Contractor and advise the ER accordingly; Advise the Supervisor / ER on the proposed remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified.) 	3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;	 Submit noise mitigation proposal to IEC and Supervisor / ER; Implement noise mitigation proposals. (The above actions should be taken within 2 working days after the exceedance is identified.)
Limit Level being exceeded	 identified.) Inform IEC, Supervisor /ER, Contractor and EPD; Repeat measurement to confirm findings; Increase monitoring frequency; Identify source and investigate the cause of exceedance; Carry out analysis of Contract's working procedure; Discuss remedial measures required with the IEC, Contractor and Supervisor /ER; Assess effectiveness of 	 Discuss the potential remedial actions with Supervisor /ER, ET and Contractor; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the Supervisor /ER accordingly. (The above actions should be taken within 2 working days after the exceedance is identified.) 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures; If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC and Supervisor /ER within 3 working days of notification; Implement the agreed proposal; Submit further proposal if problem still not under control; Stop the relevant portion of works as instructed by the Supervisor /ER until the exceedance is abated. (The above actions should be

Event		Act	tion	
Event	ЕТ	IEC	Supervisor / ER	Contractor
	Contractor's remedial		exceedance until the	taken within 2 working days
	actions and keep IEC,		exceedance is abated.	after the exceedance is
	EPD, and Supervisor /ER		(The above actions should be	identified.)
	informed of the results;		taken within 2 working days after	
	8. If exceedance stops, cease		the exceedance is identified.)	
	additional monitoring.			
	(The above actions should be			
	taken within 2 working days			
	after the exceedance is			
	identified.)			

Appendix M – Event and Action Plan for Landscape and Visual Impact

Event		Act	tion	
Event	ET	IEC	Supervisor / ER	Contractor
Design Check	1. Check final design conforms to the requirements of EP and prepare report.	 Check report. Recommend remedial design if necessary. 	 Undertake remedial design if necessary. 	
Non-conformity on	1. Identify Source.	1. Check report.	1. Notify Contractor.	1. Amend working methods.
one occasion	2. Inform IEC and Supervisor /ER.	2. Check Contractor's working method.	2. Ensure remedial measures are properly implemented.	2. Rectify damage and undertake any necessary
	3. Discuss remedial actions with IEC, Supervisor /ER and Contractor.	3. Discuss with ET and Contractor on possible remedial measures.		replacement.
	 Monitor remedial actions until rectification has been completed. 			
Repeated	1. Identify Source.	1. Check monitoring report.	1. Notify Contractor.	1. Amend working methods.
Non-conformity	2. Inform IEC and	2. Check Contractor's working	2. Ensure remedial measures	2. Rectify damage and
5	Supervisor /ER.	method.	are properly implemented.	undertake any necessary
	3. Increase monitoring frequency.	3. Discuss with ET and Contractor on possible		replacement.
	4. Discuss remedial actions with IEC, Supervisor /ER and Contractor.	remedial measures.		
	5. Monitor remedial actions until rectification has been completed.	remedial measures.5. Supervise implementation of remedial measures.		
	6. If non-conformity stops, cease additional monitoring.			

Appendix N – Waste Flow Table

Contract No. ED/2018/01 Kai Tak development – stage 4 infrastructure at the former runway and south apron



Appendix F - Monthly Summary Waste Flow Table

Name of Department: CEDD

Contract No.: ED/2018/01

				WOIIIII	y Summ	lary waste			pm 2022			
	Ac	tual Quantitie	s of Inert C&) Materials Gen	erated M	onthly		A	Actual Quantitie	s of C&D Wast	es Generated Mon	thly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Dispo as Pu Fil	iblic Impor		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 000r			n '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	0.832				0.83	32			0.100			0.144
Feb	0.749		0.450		0.29	99						0.124
Mar	0.768				0.76	68						0.154
Apr	0.488				0.48	38						0.167
May												
Jun												
Sub-total	2.837		0.450		2.38	37			0.100			0.589
July												
Aug												
Sep Oct												
Nov												
Dec												
Total	2.837		0.450		2.38	37			0.100			0.589
			Foreca	st of Total Qua			Is to be C	Generated	from the Conti	ract*		
Total Quantity Generate		oken Reus	ed in Reu	sed in Dispo	sed as	Imported Fill	Meta		Paper / cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. eneral refuse
(in '000m ³	<u> </u>				00m ³)	(in '000m ³)	(in '000		(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
195.01	2.103	3 10	.2 '	40 19	.81	25	200)	0.8	0.1		3.4

Monthly Summary Waste Flow Table for April 2022

Notes: (1) The performance targets are given in **ER Appendix 8I Clause 14** and the EM&A Manual

(2) The waste flow table shall also include C&D materials to be imported for use at the Site

(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material and water barrier

(4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the works, together with a breakdown 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 (ER Part 8 Clause 8.7.5(d)(ii) refers)

(5) Assume inert C&D materials density and non-inert C&D materials are 1.9 m³/ton and 1.5 m³/ton

Appendix O – Environmental Mitigation Implementation Schedule

(EMIS)

-		Air Quality Measures	
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
\$3.2		8 times daily watering of the work site with active dust emitting	^
		activities.	
\$3.2	S4.8	Implementation of dust suppression measures stipulated in Air	^
		Pollution Control (Construction Dust) Regulation. The following	
		mitigation measures, good site practices and a comprehensive dust	
		monitoring and audit programme are recommended to minimize	
		cumulative dust impacts.	
		- Stockpiling site(s) should be lined with impermeable sheeting	^ *
		and bunded. Stockpiles should be fully covered by	
		impermeable sheeting to reduce dust emission.	
		- Misting for the dusty material should be carried out before	^
		being loaded into the vehicle.	
		- Any vehicle with an open load carrying area should have	^
		properly fitted side and tail boards.	
		- Material having the potential to create dust should not be loaded	^
		from a level higher than the side and tail boards and should be	
		dampened and covered by a clean tarpaulin.	
		- The tarpaulin should be properly secured and should extent at	^
		least 300 mm over the edges of the sides and tailboards. The	
		material should also be dampened if necessary, before	
		transportation.	
		- The vehicles should be restricted to maximum speed of 10 km	^
		per hour and confined haulage and delivery vehicle to	
		designated roadways insider the site. On- site unpaved roads	
		should be compacted and kept free of lose materials.	
		- Vehicle washing facilities should be provided at every vehicle	^
		exit point.	
		- The area where vehicle washing takes place and the section of	^
		the road between the washing facilities and the exit point should	
		be paved with concrete, bituminous materials or hardcores.	
		 Every main haul road should be scaled with concrete and kept 	^
		clear of dusty materials or sprayed with water so as to	
		maintain the entire road surface wet.	
		 Every stock of more than 20 bags of cement should be covered 	^
		entirely by impervious sheeting placed in an area sheltered on the ten and the three sides	
		the top and the three sides.	^
		- Every vehicle should be washed to remove any dusty materials	^
		from its body and wheels before leaving the construction sites.	

EIA for KTD Development Ref.	EIA for KTD – Roads D3A & D4A Ref.	Noise Measures Environmental Protection Measures / Mitigation Measures	Status
S3.3		Use of quiet PME, movable barriers for Asphalt Paver, Breaker,	^
		Excavator and Hand-held breaker and full enclosure for Air	
		Compressor, Bar Bender, Concrete Pump, Generator and Water	
		Pump.	
S3.3		Good Site Practice:	
S3.3		- Only well-maintained plant should be operated on-site and	^*
		plant should be serviced regularly during the construction	
		program.	
		- Silencers or mufflers on construction equipment should be	^
		utilized and should be properly maintained during the	
		construction program.	
		- Mobile plant, if any, should be sited as far away from NSRs as	^
		possible.	
		- 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.	
		- 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.	
		- Material stockpiles and other structures should be effectively	^
		utilized, wherever practicable, in screening noise from on-site	
		construction activities.	
		- Scheduling of Construction Works during School	N/A
		Examination Period	

Implementatio	n Schedule for V	Water Quality Measures	
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
S3.4		<u>Construction Runoff</u> 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:	^
S3.4		- use of sediment traps.	^
S3.4		- adequate maintenance of drainage systems to prevent flooding and overflow.	^

EIA for KTD Development Ref.	EIA for KTD – Roads D3A & D4A Ref.		Environmental Protection Measures / Mitigation Measures	Status
	S5.8	-	Surface run-off from construction sites should be discharged	^
			into storm drains via adequately designed sand/silt removal	
			facilities such as sand traps, silt traps and sedimentation basins.	
	S5.8	-	Channels or earth bunds or sand bag barriers should be provided	^
			on site to properly direct stormwater to such silt removal	
			facilities. Perimeter channels should be provided on site	
			boundaries where necessary to intercept storm run-off from	
			outside the site so that it will not wash across the site. Catchpits	
			and perimeter channels should be constructed in advance of site	
			formation works and earthworks.	
	S5.8	-	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 prevent	
			local flooding. Any practical options for the diversion and	
			re-alignment of drainage should comply with both engineering	
			and environmental requirements in order to provide adequate	
			hydraulic capacity of all drains. Minimum distance of 100 m	
			should be maintained between the discharge points of	
			construction site run-off and the existing saltwater intakes.	
	S5.8	-	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.	
	S5.8	-	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.	
	S5.8	-	Open stockpiles of construction materials (e.g. aggregates,	^
			sand and fill material) on sites should be covered with tarpaulin	
			or similar fabric during rainstorms.	
	S5.8	-	Manholes (including newly constructed ones) should always be	^
			adequately covered and temporarily sealed so as to prevent silt,	
			construction materials or debris from getting into the drainage	
			system, and to prevent storm run-off from getting into foul	
			sewers. Discharge of surface run-off into foul sewers must	
			always be prevented in order not to unduly overload the foul	

Implementatio	n Schedule for V	Water Quality Measures	
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
		sewerage system.	
	S5.8	- Good site practices should be adopted to remove rubbish and	^
		litter from construction sites so as to prevent the rubbish and	
		litter from spreading from the site area. It is recommended to	
		clean the construction sites on a regular basis.	
S3.4		Construction site should be provided with adequately designed	^
		perimeter channel and pre-treatment 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.	
S3.4	S5.8	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.	
		If excavation in soil cannot be avoided in these months or at any	
		time of year when rainstorms are likely, for the purpose of	
		preventing soil erosion, temporary exposed slope surfaces should be	
		covered e.g. by tarpaulin, and temporary access roads should be	
		protected by crushed stone or gravel, as excavation proceeds.	
		Intercepting channels should be provided (e.g. along the crest / edge	
		of excavation) to prevent storm runoff from washing across exposed	
		soil surfaces. Arrangements should always be in place in such a way	
		that adequate surface protection measures can be safely carried out	
		well before the arrival of a rainstorm.	
\$3.4		Sediment tanks of sufficient capacity, constructed from pre-formed	^
		individual cells of approximately 6 to 8 m^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	

Implementatio	on Schedule for V	Water Quality Measures	
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
		and particularly suited to applications where the influent is pumped.	
S3.4		Open stockpiles of construction materials (for examples, aggregates,	^
		sand and fill material) of more than 50 m 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.	
S3.4		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.	
S3.4		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.	
S3.4		Oil interceptors should be provided in the drainage system and	NA
		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.	
S3.4	S5.8	Wheel Washing Water	^
		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	
		wash-water should have sand and silt settled 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	
		wheel-wash 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.	
S3.4		Drainage	^
		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	
		should be no direct discharge of effluent from the site into the sea.	
S3.4		All temporary and permanent drainage pipes and culverts provided	^

EIA for KTD Development	EIA for KTD – Roads D3A	Environmental Protection Measures / Mitigation Measures	Status
Ref.	& D4A Ref.		
		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.	
S3.4		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 of the Victoria Harbour WCZ.	
S3.4	S5.8	Sewage Effluent	^
		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 should be	
		provided by a licensed contractor to serve the large number of	
		construction workers over the construction site. The Contractor	
		should also be responsible for waste disposal and maintenance	
		practices.	
		Notices should be posted at conspicuous locations to remind the	
		workers not to discharge any sewage or wastewater into the	
		surrounding environment. Regular environmental audit of the	
		construction site will provide an effective control of any	
		malpractices and can encourage continual improvement of	
		environmental performance on site. It is anticipated that sewage	
		generation during the construction phase of the project would not	
		cause water pollution problem after undertaking all required	
		measures.	
S3.4		Stormwater Discharges	^
		Minimum distances of 100 m should be maintained between the	
		existing or planned stormwater discharges and the existing or	
		planned seawater intakes	
S3.4		Debris and Litter	^
55.7		In order to maintain water quality in acceptable conditions with	
		regard to aesthetic quality, contractors should be required, under	
		conditions of contract, to ensure that site management is optimised	

EIA for KTD Development Ref.	EIA for KTD – Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status
		and that disposal of any solid materials, litter or wastes to marine	
		waters does not occur.	
	S5.8	Boring and Drilling Water	^
		Water used in ground boring and drilling for site investigation or	
		rock / soil anchoring should as far as practicable be re-circulated	
		after sedimentation. When there is a need for final disposal, the	
		wastewater should be discharged into storm drains via silt removal	
		facilities.	
	S5.8	Acid Cleaning, Etching and Pickling Wastewater	NA
		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.	
	S5.8	Effluent Discharge	^
		There is a need to apply to EPD for a discharge licence for discharge	
		of effluent from the construction site under the WPCO. The	
		discharge quality must meet the requirements specified in the	
		discharge licence. All the runoff and wastewater generated from the	
		works areas should be treated so that it satisfies all the standards	
		listed in the TM-DSS. Minimum distance of 100 m should be	
		maintained between the discharge points of construction site effluent	
		and the existing seawater intakes and the planned WSR mentioned in	
		S5.3.1 as appropriate. The beneficial uses of the treated effluent for	
		other on-site activities such as dust suppression, wheel washing and	
		general cleaning etc., can minimise water consumption and reduce	
		the effluent discharge volume. If monitoring of the treated	
		effluent quality from the works areas is required during the	
		construction phase of the Project, the monitoring should be carried	
		out in accordance with the relevant WPCO licence which is under	
		the ambit of regional office (RO) of EPD.	
	65.0		^
	S5.8	Accidental Spillage	
		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. Any service shop and maintenance facilities should be located on	

Implementatio	Implementation Schedule for Water Quality Measures			
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status	
		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.		
	S5.8	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:		
		- Suitable containers should be used to hold the chemical wastes		
		to avoid leakage or spillage during storage, handling and		
		transport.		
	S5.8	- Chemical waste containers should be suitably labelled, to notify	^	
		and warn the personnel who are handling the wastes, to avoid		
		accidents.		
	S5.8	- Storage area should be selected at a safe location on site and	^	
		adequate space should be allocated to the storage area.		

Implementatio	Implementation Schedule for Waste Management Measures				
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status		
S3.5		Good Site Practices It is not anticipated that adverse waste management related impacts would arise, provided that good site practices are adhered to. Recommendations for good site practices during construction activities include:			
\$3.5		 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. 	^		
	S6.7	 Prepare a Waste Management Plan, which becomes a part of the Environmental Management Plan, in accordance with the requirements stipulated in ETWB TC(W) No. 19/2005, approved by the Engineer/Supervising Officer of the Project based on current practices on construction sites. 	^		
S3.5	S6.7	- Training of site personnel in proper waste management and chemical waste handling procedures.	٨		

Implementatio	Implementation Schedule for Waste Management Measures				
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status		
S3.5	S6.7	- Provision of sufficient waste disposal points and regular	^		
		collection for disposal.			
S3.5	S6.7	- Appropriate measures to minimise windblown litter and dust	^		
		during transportation of waste by either covering trucks or by			
		transporting wastes in enclosed containers.			
S3.5		- A recording system for the amount of wastes generated,	^		
		recycled and disposed of (including the disposal sites).			
	S6.7	- Regular cleaning and maintenance programme for drainage	^		
		systems, sumps and oil interceptors.			
	S6.7	- Training should be provided to workers about the concepts of	^		
		site cleanliness and appropriate waste management procedures,			
		including waste reduction, reuse and recycle.			
S3.5		Waste Reduction Measures	^		
		Good management and control can prevent the generation of a			
		significant amount of waste. Waste reduction is best achieved at the			
		planning and design stage, as well as by ensuring the			
		implementation of good site practices. Recommendations to achieve			
		waste reduction include:			
S3.5	S6.7	- Sort C&D waste from demolition of the remaining structures to	NA		
		recover recyclable portions such as metals.			
S3.5	S6.7	- 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.			
S3.5	S6.7	- Encourage collection of aluminium cans, PET bottles and paper	^		
		by providing separate labelled bins to enable these wastes to be			
		segregated from other general refuse generated by the work			
		force.			
S3.5		- Any unused chemicals or those with remaining functional	^		
		capacity should be recycled.			
S3.5	S6.7	- Proper storage and site practices to minimise the potential for	^		
		damage or contamination of construction materials.			
\$3.5		Construction and Demolition Materials	<u> </u>		
		Mitigation measures and good site practices should be incorporated			
		in the contract document to control potential environmental impact			
		from handling and transportation of C&D material. The mitigation			
		measures include:			
\$3.5		- Where it is unavoidable to have transient stockpiles of C&D	^		
~~		material within the Project work site pending collection for			

EIA for KTDEIA for KTDDevelopment– Roads D3ARef.& D4A Ref.		opment – Roads D3A	
		disposal, the transient stockpiles shall be located away from	
		waterfront or storm drains as far as possible.	
S3.5		- Open stockpiles of construction materials or construction	^
		wastes on-site should be covered with tarpaulin or similar	
		fabric.	
\$3.5		- Skip hoist for material transport should be totally enclosed by	^
		impervious sheeting.	
S3.5		- Every vehicle should be washed to remove any dusty materials	^
		from its body and wheels before leaving a construction site.	
S3.5		- The area where vehicle washing takes place and the section of	^
		the road between the washing facilities and the exit point should	
		be paved with concrete, bituminous materials or hardcores.	
\$3.5		- The load of dusty materials carried by vehicle leaving a	^
		construction site should be covered entirely by clean	
		impervious sheeting to ensure dust materials do not leak from	
		the vehicle.	
S3.5		- All dusty materials should be sprayed with water prior to any	^
		loading, unloading or transfer operation so as to maintain the	
		dusty materials wet.	
S3.5		- The height from which excavated materials are dropped should	^
		be controlled to a minimum practical height to limit fugitive	
		dust generation from unloading.	
S3.5		- When delivering inert C&D material to public fill reception	^
		facilities, the material should consist entirely of inert	
		construction waste and of size less than 250mm or other sizes	
		as agreed with the Secretary of the Public Fill Committee. In	
		order to monitor the disposal of the surplus C&D material at	
		the designed public fill reception facility and to control fly	
		tipping, a trip-ticket system as stipulated in the ETWB TCW	
		No. 31/2004 "Trip Ticket System for Disposal of Construction	
		and Demolition Materials" should be included as one of the	
		contractual requirements and implemented by an	
		Environmental Team undertaking the Environmental	
		Monitoring and Audit work. An Independent Environmental	
		Checker should be responsible for auditing the results of the	
		system.	
	S6.7	- Plan and stock construction materials carefully to minimize	^
		amount of waste generated and avoid unnecessary generation	

EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status	
		of waste.		
S3.5		Chemical Waste	^	
		After use, chemical wastes (for example, cleaning fluids, solvents,		
		lubrication oil and fuel) should be handled according to the Code of		
		Practice on the Packaging, Labelling and Storage of Chemical		
		Wastes. Spent chemicals should be collected by a licensed collector		
		for disposal at the CWTF or other licensed facility, in accordance		
		with the Waste Disposal (Chemical Waste) (General) Regulation.		
	S6.7	Separation of chemical wastes for special handling and appropriate	^	
		treatment.		
S3.5		General Refuse	^	
		General refuse should be stored in enclosed bins or compaction units		
		separate from C&D material. A licensed waste collector should be		
		employed by the contractor to remove general refuse from the site,		
		separately from C&D material. Effective collection and storage		
		methods (including enclosed and covered area) of site wastes would		
		be required to prevent waste materials from being blown around by		
		wind, wastewater discharge by flushing or leaching into the marine		
		environment, or creating odour nuisance or pest and vermin		
		problem.		

Implementatio	Implementation Schedule for Landscape and Visual Measures				
EIA for KTD Development Ref.	EIA for KTD - Roads D3A & D4A Ref.	Environmental Protection Measures / Mitigation Measures	Status		
S3.8.12		All existing trees should be carefully protected during construction.	^		
S3.8.12		Trees unavoidably affected by the works should be transplanted where practical. Detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBC 2/2004 and 3/2006. Final locations of transplanted trees should be agreed prior to commencement of the work.	NA		
S3.8.12		Control of night-time lighting.	^		
S3.8.12		Erection of decorative screen hoarding.	^		
	S7.9	 <u>Construction Site Control</u> CM1 - Minimized construction area and contractor's temporary works areas. 	^		
		 CM2- Control of night-time lighting and glare by hooding all lights. CM3 - Erection of decorative mesh screens or construction 	^		

EIA for KTD Development	EIA for KTD – Roads D3A	Landscape and Visual Measures Environmental Protection Measures / Mitigation Measures	Status
Ref.	& D4A Ref.		
		hoardings around works areas in visually unobtrusive colours.	
- CM4		- CM4 - Reduction of construction period to practical minimum.	^
		- CM5 - Limitation of / Ensuring no run-off into surrounding	^
		landscape and adjacent seawater areas.	
		- CM6 - Temporary or advance landscape should be provided	NA
		along the temporary access roads to the Cruise Terminal until	
		such time as road D3 is open.	

Remarks:			
^	Compliance of mitigation measure.	Х	Non-compliance of mitigation measure.
N/A	Not Applicable at this stage.	•	Non-compliance but rectified by the contractor.
N/A(1)	Not observed.		· ·
*	Recommendation was made during site audit	#	Recommendation was made during audit and to be
	but improved/rectified by the contractor.		improved/ rectified by the contractor.

Mitigation N	Aitigation Measures undertaken by the Contractor for site inspections					
Dongo						
Date: Mitigation	07 April 2022	Date:	21 April 2022			
Measures:	Quiet PME was used.	Mitigation Measures:	Haul road was sprayed with water to maintain the entire road surface			
ivicasures.		wicasures.	wet.			
Date:	28 April 2022	Date:	28 April 2022			
Mitigation	The portable toilets were	Mitigation	The vehicles are restricted to			
Measures:	provided in the construction site.	Measures:	maximum speed of 10 km per hour inside the site.			

Appendix P – Summaries of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting Month: April 2022

Contract No.	Record of Complaint (Yes/No)	Record of Warning (Yes/No)	Notification of Summons and Successful Prosecutions (Yes/No)
ED/2018/01	No	No	No

Cumulative Statistics on Complaints, Notification of Summons and Successful Prosecutions upto reporting month

Contract No.	Record of Complaint	Record of Warning	Notification of Summons and Successful Prosecutions
ED/2018/01	3	0	0

Complaint	Log for ED/2018/01			
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Recommendations / Actions	Close-Out Date / Status
C0001	A dust complaint was referred from the Contractor on 21 October 2020 regarding a pubic complaint via 1823 hotline (Case no. 3-6518939602) on 20 October 2020.	 The water spraying system was not operated in proper time. Stockpile was not covered properly. Haul road was not wetted. Materials transported on trucks were not provided with mechanical covers. 	1. Based on the information provided by the Contractor on 22 October 2020, the water sprinklers system was sprayed every 15	 Closed-out on 5 Nov 2020 No further complaint was received.

Complaint	Log for ED/2018/01			
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Recommendations / Actions	Close-Out Date / Status
			As per the Contractor, the water sprinkler are now adjusted to start at 8:00am and end at 6:00pm for Monday to Saturday while from 8:00am to 5:00pm on Sunday. Water spraying are set with 5-minute time interval with duration 30-60 seconds.	
C0002	A dust complaint was referred from the Contractor on 8 September 2021 through E-Mail regarding a complaint received by EPD (EPD ref.: K19/RE/00021205-21) on 7 September 2021.	Complaint of dust problem at the pavement of Muk Tai Street near Sports Park.	 <u>Investigation</u> As per contractor, part of the complaint area was within the site boundary of the project. Manual water spraying was provided. The exposed surface and stockpile areas were covered by the impermeable tarpaulin sheet. <u>Recommendations</u> There was no direct evidence showing that the dust nuisance was caused by the contractor at the complaint area, however the contractor is recommended to implement the following measures to minimize the impact for air quality: 1. Ensure stockpiling sites should be lined with impermeable sheeting and bunded. 2. Stockpiles should be fully covered by impermeable sheeting at all time except during working process. 3. Ensure the work fulfill the relevant statutory requirements on control of air pollution. 4. Take necessary measures to minimize the environmental nuisance arising from the construction site. <u>Action taken</u> The exposed surface and stockpile area was covered by the impermeable tarpaulin sheet. 	 Closed-out on 4 Oct 2021 No further complaint was received.
C0003	A water discharge complaint was referred from the Contractor on	Complaint of muddy water being discharged into the sea of To Kwa Wan Typhoon Shelter via a DSD outfall near the roundabout of Shing Fung Road.	<u>Investigation</u> Joint site inspection was conducted by ER, IEC, ET and the contractor on 14 December 2021, no	- Closed-out on 5 Jan 2022

Complaint	Log for ED/2018/01			
Complaint Ref. No.	Date of Complaint	Description of Complaint	Investigation / Recommendations / Actions	Close-Out Date / Status
	10 December 2021 through E-Mail regarding a complaint received by EPD (ref.: K19/RE/00029046-21) on 9 December 2021.		 adverse observation against the water impact was recorded. There was no muddy water discharge to DSD outfall near the roundabout of Shing Fung Road. The sand bag with layers and filter were provided at the manholes. <u>Recommendations</u> There was no direct evidence showing that the water nuisance was caused by the contractor at the complaint area. Some of muddy water generated from wheel washing might be flow to the outfall inside the site boundary, however the contractor had taken the mitigation measure by using sand bag and filter to ease the nuisance. The contractor is recommended to implement the following measures to minimize the impact for waste water: Enhance the sand bag with several layers instead of one layer only and replace the filter frequently. Modify the wheel washing area such that the muddy water will be directly flow to the pit and then waste water treatment facility. Take necessary measures to minimize the environmental nuisance arising from the construction site. Action taken Sand bags and filter were used to block the manholes. Manholes had been adequately covered and replace the filter frequently. 	- No further complaint was received.

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Appendix D

Monthly EM&A Report For Contract No. ED/2018/05 Kai Tak Development – Stage 5B infrastructure works at the former north apron area

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Environmental Monitoring and Audit Report

for

Contract No. ED/2018/05 -

Kai Tak Development – Stage 5B infrastructure works at the former north apron area

Contract No.: EDO 2/2020

April 2022

(Version 1.1)

Certified By:_	pm.
	(Environmental Team Leader)





Unit E, 12/F., Ford Glory Plaza, Nos. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon

Website: www.acuityhk.com

Tel. : (852) 2698 6833 Fax.: (852) 2698 9383

Date: 12 May 2022 Your ref: Our ref: PL-202205012

AECOM Asia Company Limited 12/F, Grand Central Plaza, Tower 2, 138 Shatin Rural Committee Road, Shatin, New Territories, Hong Kong

Attn.: Mr. Vincent Lee, SRE

Dear Mr. Lee,

Re: Agreement No. EDO 6/2019 Independent Environmental Checker for Contract No. ED/2018/05 Kai Tak Development – Stage 5B Infrastructure Works at the Former North Apron Area Verification of Monthly EM&A Report (April 2022)

Reference is made to the Monthly EM&A Report (April 2022) (Version 1.1) issued by the Environmental Team on 12 May 2022.

Please be informed that we have no adverse comment on the captioned submission. We hereby verify the Monthly EM&A Report (April 2022) in accordance with Condition 3.3 of Environmental Permit No. EP-337/2009.

Thank you for your attention.

Yours sincerely, For and on behalf of Acuity Sustainability Consulting Limited

Kevin Li Independent Environmental Checker

c.c.	CEDD	Attn.: Mr. Albert Tse	By email
	Ka Shing	Attn.: Mr. Chan Pang (ETL)	By email

Table of Content

Page

EXECUT	ΓIVE SUMMARY1
	Breaches of Action and Limit Levels
	Complaint log 1
	Notifications of summons and successful prosecutions
	Report changes
	Key construction works in the reporting month
	Future key issues
1.	INTRODUCTION
	Project Background
	Project Organization
	Works Area and Construction Programme
	Construction works undertaken during reporting month
	Submission Status under the Environmental Permits
2.	AIR QUALITY MONITORING
	Monitoring Requirements7
	Monitoring Locations7
	Monitoring Parameters, Frequency and Duration7
	Monitoring Equipment
	Monitoring Methodology and QA/QC Procedure
	Wind Data Monitoring11
	Action and Limit Levels 11
	Impact Air Quality Monitoring results 12
3.	NOISE MONITORING 13
	Monitoring Requirements
	Monitoring Locations 13
	Monitoring Parameters, Frequency and Duration

	Monitoring Equipment	14
	Monitoring Methodology and QA/QC Procedure	14
	Maintenance and Calibration	15
	Action and Limit Levels	15
	Impact Noise Monitoring results	16
4.	COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS	17
5.	LANDSCAPE AND VISUAL MONITORING	19
	Results and Observations	19
6.	ENVIRONMENTAL SITE INSPECTION AND AUDIT	20
	Site Inspection	20
	Status of Waste Management	
	Status of Environmental Licenses, Notification and Permits	
	Implementation Status of Environmental Mitigation Measures	
	Environmental Complaint and Non-compliance	
	Notifications of summons and successful prosecutions	
7.	FUTURE KEY ISSUES	24
	Construction Programme in the coming month	24
	Environmental Site Inspection and Monitoring Schedule for next month	25
8.	CONCLUSIONS	

List of Tables

Table I	Non-compliance Record in	the Reporting Month
---------	--------------------------	---------------------

- Table II
 Summary of complaints in the Reporting Month
- Table III
 Summary of summons and successful prosecutions in the Reporting Month
- Table IV
 Summary of future key issues and potential impact in the coming month
- Table 1.1Contact Information of Key Personnel
- Table 1.2Major activities of the Project during reporting month
- Table 1.3Summary of Status of Required Submission of EPs

- Table 2.1
 Locations of Air Quality Monitoring Stations
- Table 2.2
 Air Quality Monitoring Parameters, Frequency and Duration
- Table 2.3Air Quality Monitoring Equipment
- Table 2.4
 Action and Limit Levels of 24-hour average TSP for Construction Dust

 Monitoring
- Table 2.5Action and Limit Levels of 1-hour average TSP for Construction Dust
Monitoring
- Table 2.6Summary of 24-hour average TSP Monitoring Data during the reporting month
- Table 2.7Summary of 1-hour average TSP Monitoring Data during the reporting month
- Table 3.1Locations of Noise Monitoring Stations
- Table 3.2
 Noise Monitoring Parameters, Frequency and Duration
- Table 3.3Noise Monitoring Equipment
- Table 3.4Baseline Noise Level and Action and Limit Levels for Construction Noise
Monitoring
- Table 3.5
 Summary of Noise Monitoring Data during the reporting month
- Table 4.1
 Comparison of 24-hour average TSP Monitoring Data with EIA predictions
- Table 4.2
 Comparison of 1-hour average TSP Monitoring Data with EIA predictions
- Table 4.3
 Comparison of Noise Monitoring Data with EIA predictions
- Table 5.1Summary of observations of Landscape and Visual impact during the reporting
month
- Table 6.1
 Summary of site inspections observations during the reporting month
- Table 6.2
 Summary of Environmental Licenses, Notifications and Permits
- Table 6.3Summary of complaints in the Reporting Month
- Table 6.4Summary of summons and successful prosecutions in the Reporting Month
- Table 7.1
 Summary of future key issues and potential impact in the coming month

List of Figure

- Figure 1 Proposed works of Contract No. ED/2018/05
- Figure 2 Proposed works of Contract No. ED/2018/05

Figure 3 – D1 Road Site Layout Plan

- Figure 4 Site Layout Plan
- Figure 5 Air Quality Monitoring Stations
- Figure 6 Noise Monitoring Stations

List of Appendices

- Appendix A Organization Chart of EM&A Team
- Appendix B Construction Programme
- Appendix C Environmental monitoring schedules
- Appendix D Photographic records
- Appendix E Calibration certificates, catalogue of air quality monitoring equipment
- Appendix F Weather information
- Appendix G 24-hr TSP monitoring results and graphical presentation
- Appendix H 1-hr TSP monitoring results and graphical presentation
- Appendix I Event and Action Plan for air quality
- Appendix J Calibration certificates, catalogue of noise monitoring equipment
- Appendix K Noise monitoring results and graphical presentation
- Appendix L Event and Action Plan for noise
- Appendix M Event and Action Plan for Landscape and Visual Impact
- Appendix N Waste Flow Table
- Appendix O Environmental Mitigation Implementation Schedule (EMIS)
- Appendix P Summaries of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

EXECUTIVE SUMMARY

1. This is the 15th Monthly Environmental Monitoring & Audit (EM&A) report which summarises the findings of the EM&A Programme during the reporting period from 1 to 30 April 2022.

Breaches of Action and Limit Levels

- 2. 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 3. 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 4. Construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 5. Summary of the non-compliance in the reporting month for the Project is tabulated in Table I.

No. of Exceedance Action Taken Parameter Action Level Limit Level 1-hr TSP 0 0 N/A 24-hr TSP 0 0 N/A Construction noise 0 0 N/A

Table I Non-compliance Record in the Reporting Month

Complaint log

6. No complaint was received in the reporting month. Summary of complaints in the reporting month is tabulated in Table II.

Date of complaint received	Date of compliant	Description of complaint	Recommendations / Action taken	Close-out date / Status
No complaint was received in the reporting month.	NA	NA	NA	NA

Table II Summary of complaints in the Reporting Month

Notifications of summons and successful prosecutions

7. No notification of summons and successful prosecutions was received in the reporting month. Summary of summons and successful prosecutions in the reporting month is tabulated in Table III.

Date of receiving notification of summons or prosecutions	Date of event	Description of event	Action taken	Close-out date / Status
No	NA	NA	NA	NA
notification				
of summons				
and				
successful				
prosecutions				
were				
received in				
the reporting				
month.				

Table III Summary of summons and successful prosecutions in the Reporting Month

Report changes

8. There was no reporting change in the reporting month.

Key construction works in the reporting month

- 9. Major construction activities undertake during the reporting month included:
 - ELS and excavation at Pier 9 for Elevated Walkway LW-02
 - Pile cap construction for PC9 and PC10 for Elevated Walkway LW-02
 - Erection of temporary decking across existing Kai Tak River
 - Underground utility diversion works at Sa Po Road
 - ELS and excavation at launching shaft for subway SB-01

- Construction works for Pedestrian Street No. 1, No. 2, No. 3 & No. 4
- Construction of Crowd Dispersal Route
- Construction works for Road L16
- Construction of DCS
- Post-pilling tests for H-piles at Subway KS10
- ELS and excavation for Subway KS10 Lift and Staircase
- Demolition works to existing subway KS10 staircase and ramp
- Renovation works for existing subways KS9 and KS32

Future key issues

10. The future key issues and potential impact in the coming month are given in Table IV.

<u>Indie IV Summary of Juture key issues and potential impact in the coming month</u>				
Future key issues in the coming month	Potential impact			
Pile cap and column construction for Pier 9 and Pier 10 at	Noise and Air Quality			
Elevated Walkway LW-02				
Erection of temporary deck across existing Kai Tak River	Noise and Air Quality			
Construction of Crowd Dispersal Route	Noise and Air Quality			
Construction of Road L16	Noise and Air Quality			
Construction of DCS	Noise and Air Quality			
Construction of Pedestrian Street No. 1, No. 2, No.3 & No.4	Noise and Air Quality			
Underground utility diversion works at Sa Po Road	Noise and Air Quality			
ELS and excavation for launching shaft for subway SB-01	Noise and Air Quality			
Renovation works for existing subway KS9 and KS32	Noise and Air Quality			
Twin rising main connection works	Noise and Air Quality			

Table IV Summary of future key issues and potential impact in the coming month

1. INTRODUCTION

Project Background

- 1.1 The Kai Tak Development (KTD) is located in the southern part of Kowloon Peninsula of the HKSAR, comprising the apron and runway areas of the former Kai Tak Airport and existing waterfront areas at To Kwa Wan, Ma Tau Kok, Kowloon Bay, Kwun Tong and Cha Kwo Ling.
- 1.2 Contract No. ED/2018/05 Kai Tak Development stage 5B infrastructure works at the former north apron area (The Project), comprises mainly the design and construction of a section of dual two-lane Road D1; single two-lane Road L9 and Road L16; a single-lane slip road S14; a pedestrian subway SB-01; an elevated walkway LW-02; renovation of the existing pedestrian subways KS9, KS10 and KS32, as well as modification of the southern end of the existing pedestrian subway KS10; associated footpaths, street lighting, traffic aids, drainage, sewerage, water mains, landscaping, electrical and mechanical works, and ancillary works. The proposed works are shown in Figure 1 and Figure 2. The proposed works and site boundary are shown in Figure 3 and Figure 4. Civil Engineering and Development Department (CEDD) had completed an Environmental Impact Assessment (EIA) and is the Permit Holder.
- 1.3 In accordance with the approved EIA Reports, Environmental Monitoring and Audit (EM&A) programmes are recommended to ensure compliance with the EIA study recommendations. The project proponent was the Civil Engineering and Development Department (CEDD). AECOM Asia Co. Ltd. (AECOM) was commissioned by CEDD as Supervisor (act as Engineers' Representative (ER) listed in EM&A Manual). Acuity Sustainability Consulting Limited (Acuity) was commissioned as the Independent Environmental Checker (IEC). Build King STEC Joint Venture (Build King) was appointed as the main Contractor for the construction works of Contract No. ED/2018/05. Ka Shing was commissioned by CEDD to undertake the role of the Environmental Team (ET) to implement the EM&A programme for The Project.
- The construction work under ED/2018/05 comprises the EM&A Manual (EIA Register No. AEIAR-130/2009 for Kai Tak Development) and Environmental Permit No. EP- 337/2009.
- 1.5 Air quality and noise monitoring has been proposed in the EM&A Manual with EIA Register No. AEIAR-130/2009 for Kai Tak Development.

Project Organization

1.6 The project organization chart and with respect to the EM&A programme is shown in Appendix A. Information of key personnel contact names and telephone numbers are summarized in Table 1.1.

Party	Role	Contact Person	Position	Phone No.	Fax No.
Civil Engineering and	Project	Mr. George Ng	Senior Engineer	3842 7107	2739 0076
Development Department	Project Proponent	Mr. Albert Tse	Engineer	3842 7137	2739 0076
(CEDD)		Mr. Perry Lo	Engineer	3842 7143	2739 0076
AECOM Asia Co. Ltd. (AECOM)	Supervisor (act as Engineers' Representative (ER) listed in EM&A Manual)	Ms. Mavis Law	SRE	2798 0771	2798 0783
Acuity Sustainability Consulting Limited (Acuity)	Independent Environmental Checker (IEC)	Mr. Kevin Li	IEC	2698 6833	2698 9383
Ka Shing Management Consultant Limited (Ka Shing)	Environmental Team (ET)	Ir. Chan Pang	ET Leader	2618 2166	2120 7752
Build King – STEC Joint Venture (BK-STEC)	Contractor	Mr. Raymond Lam	Environmental Officer	9713 6817	3850 8508

Table 1.1 Contact In	nformation c	of Ke	y Personnel

Works Area and Construction Programme

 The construction works commenced on 16 February 2021. The construction programme of the Project is given in Appendix B.

Construction works undertaken during reporting month

1.8 Major construction works of the Project in the reporting month are summarized in Table 1.2:

ELS and excavation at Pier 9 for Elevated Walkway LW-02	Construction of Crowd Dispersal Route		
Pile cap construction for PC9 and PC10 for Elevated Walkway LW-02	Construction works for Road L16		
Erection of temporary decking across existing Kai Tak River	Construction of DCS		
Underground utility diversion works at Sa Po Road	Post-pilling tests for H-piles at Subway KS10		
ELS and excavation at launching shaft for subway SB-01	ELS and excavation for Subway KS10 Lift and Staircase		
Construction works for Pedestrian Street No. 1,	Demolition works to existing subway KS10		
No. 2, No. 3 & No. 4	staircase and ramp		
Renovation works for existing subways KS9 and KS32			

Table 1.2 Major activities of the Project during reporting month

Submission Status under the Environmental Permits

1.9 The status of required submission under Environmental Permit (EP) conditions under EP-337/2009 are summarized in Table 1.3.

EP Condition EP-337/2009	Submission	Submission Date
Condition 1.11	Notification of Commencement Date of Construction of the Project	12 Jan 2021
Condition 2.3	Management Organization of Main Construction Companies	21 Sep 2020
Condition 2.4	Design Drawings	12 Jan 2021
Condition 2.11	Landscape Mitigation Plans	17 Dec 2020
Condition 3.2	Baseline Monitoring Report	12 Jan 2021
Condition 3.3	Monthly EM&A Report (March 2022)	19 April 2022

Table 1.3 Summary of Status of Required Submission of EPs

2. AIR QUALITY MONITORING

Monitoring Requirements

2.1 In accordance with EM&A Manual (EIA Register No. AEIAR-130/2009), impact air quality monitoring shall be carried out during the construction phase of the Project. For regular impact monitoring, a sampling frequency of at least once in every six days will be strictly observed at all of the monitoring stations for 24-hour TSP. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six days will be undertaken when the highest dust impact occurs.

Monitoring Locations

2.2 Two designated monitoring stations were selected for air quality monitoring programme. Impact air quality monitoring was conducted at two air quality monitoring stations in the reporting month. Table 2.1 describes the air quality monitoring locations, which are also depicted in Figure 5.

Table 2.1 Locations of Air Quality Monitoring Stations

Air Quality Monitoring Locations for the Project	Location of Measurement
AM2(A) – Ng Wah Catholic Secondary School	Rooftop
AM3 – Sky Tower	Podium floor near T7

Monitoring Parameters, Frequency and Duration

2.3 The air quality monitoring locations and monitoring frequency are listed in Table 2.2.

	e e e e e e e e e e e e e e e e e e e		1 1	-			
Air Monitoring Station	Location for Measurement		Parameter		Duration		Frequency
AM2(A) – Ng Wah		-	24-hour	-	24 hours	-	Once every 6
Catholic Secondary	Rooftop		average TSP				days
School							
AM3 – Sky Tower	Podium Floor	-	1-hour	-	1 hour	-	Three times
Awis – Sky Tower	near Tower 7		average TSP				every 6 days

Table 2.2 Air Quality Monitoring Parameters, Frequency and Duration

- 2.4 The monitoring schedule for reporting month and next month is presented in Appendix C.
- 2.5 Photographic records of the impact monitoring setup are shown in Appendix D.

Monitoring Equipment

2.6 24-hour average TSP and 1-hour average TSP levels were measured for impact monitoring. 24-hour average TSP levels were measured by the High Volume Samplers (HVS) and 1-hour average TSP levels were measured by direct reading method to indicate short-term impacts. Wind data monitoring equipment was set up at conspicuous locations for logging wind speed and wind direction near to the dust monitoring locations. Table 2.3 summarizes the equipment to be used in the air quality monitoring.

Equipment Model		Quantity	Calibration Interval
HVS Sampler	TE-5170 X c/w of TSP sampling inlet	2	2 months
HVS Calibrator	TISCH TE-5025A	1	1 year
1-hour TSP Dust Meter	TSI Model AM510 SidePak Personal Aerosol Monitor	2	1 year
Weather Station	Davis Vantage Pro2 Weather Station	1	6 months

Table 2.3 Air Quality Monitoring Equipment

- 2.7 High volume samplers (HVS) (TE-5170 X c/w of TSP sampling inlet) comprising with appropriate sampling inlets were employed for 24-hour TSP monitoring. The sampler was 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).
- 2.8 Calibration certificates, catalogue of equipment are given in Appendix E.

Monitoring Methodology and QA/QC Procedure

24-hour TSP Monitoring

Operating/Analytical Procedures

2.9 Setup criteria of HVS are shown as follows:

- A horizontal platform with appropriate support to secure the samplers against gusty wind was provided.
- No two samplers were placed less than 2m apart.
- The distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protrudes above the sampler.
- A minimum of 2m of separation from walls, parapets and penthouses was set for the rooftop samples.
- A minimum of 2m separation from any supporting structure, measured horizontally was set.
- No furnaces or incineration flues was nearby.
- Airflow around the sampler was unrestricted.
- Any wire fence and gate, to protect the samplers, was not caused any obstruction during monitoring.
- Permission were obtained to setup the samplers and to obtain access to the monitoring stations.
- A secured supply of electricity was provided to operate the samplers.
- 2.10 Prior to the commencement of the dust sampling, the flow rate of the HVS was properly set (between 1.1 m³/min. and 1.7 m³/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- 2.11 For TSP sampling, Glass Fiber Filter Media 8" x 10" having a collection efficiency of > 99 % for particles of 0.3 μ m diameter were used.
- 2.12 The power supply was checked to ensure the sampler worked properly and then placed any filter media at the designated air monitoring station.
- 2.13 The filter holding frame was removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- 2.14 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 was sufficient to avoid air leakage at the edges.
- 2.15 The shelter lid was closed and secured with the aluminium strip.

- 2.16 The timer was 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).
- 2.17 After sampling, the filter was removed from the HVS and put into a clean and labeled seal plastic bag to avoid cross contamination. The elapsed time was also be recorded. The sampled filters were sent to the HOKLAS accredited or other internationally accredited laboratory for weighting.

Maintenance/Calibration

2.18 The following maintenance/calibration are required for the HVS:

- The HVS and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.
- High volume samplers were calibrated with at bi-monthly intervals using TE-5025A Calibration Kit throughout all stages of the air quality monitoring.

1-hour TSP Monitoring

Measurement Procedures

- 2.19 The measurement procedures of the 1-hour TSP were conducted in accordance with the Manufacturer's Instruction Manual as follows:
 - Set up the dust meter on a tripod at 1.2m level.
 - Turned on the dust meter and check the battery, if too low, change new ones. Pointed the meter to the source area or the planned measurement area.
 - The zero calibration of the instrument was conducted before and after each sampling.
 - TSP levels were recorded for 1-hour with 5-minute data logging interval.
 - Recorded down the general meteorological conditions, Test ID no., start/end time, spot check reading at each sampling location for data processing.
 - Recorded any activities that may generate dust during measurement period.

Maintenance/Calibration

2.20 The following maintenance/calibration are required for the direct dust meters:

• To validate the accuracy of dust meter, compare the results measured by dust meter and HVS every 12 months throughout all stages of the air quality monitoring.

Wind Data Monitoring

- 2.21 Wind Anemometer was installed at the roof-top of AM2(A) Ng Wah Catholic Secondary School with 10m above ground and clear of constructions or turbulence caused by the buildings.
- 2.22 The wind data was captured by a data logger and the data was downloaded at least once per month for analysis.
- 2.23 The wind data monitoring equipment will be re-calibrated at least once every six months.
- 2.24 Wind direction is divided into 16 sectors of 22.5 degrees each.
- 2.25 Details of weather information during the monitoring period are shown in Appendix F.

Action and Limit Levels

2.26 The Action and Limit Levels of 24-hour average TSP and 1-hour average TSP are summarized in Table 2.4 and Table 2.5 respectively.

Table 2.4 Action and Limit Levels of 24-hour average TSP for Construction Dust Monitoring

Parameter	Air Monitoring Station	Action Level, $\mu g/m^3$	Limit Level, µg/m ³
24-hour average TSP	AM2(A)	175	260
	AM3	172	260

Table 2.5 Action and Limit Levels of 1-hour average TSP for Construction Dust Monitoring

Parameter	Air Monitoring Station	Action Level, µg/m ³	Limit Level, µg/m ³
1-hour average TSP	AM2(A)	302	500
	AM3	301	500

Impact Air Quality Monitoring results

2.27 Impact monitoring results for 24-hour average TSP and 1-hour average TSP levels at the designed air quality monitoring stations are summarized in Table 2.6 and Table 2.7 respectively.

Air Monitoring Station	Average TSP Concentration, µg/m ³	Range, μg/m ³	Action Level, µg/m ³	Limit Level, µg/m ³
AM2(A)	73	42-127	175	260
AM3	69	27-102	172	260

Table 2.6 Summary of 24-hour average TSP Monitoring Data during the reporting month

Table 2.7 Summary of 1-hour average TSP Monitoring Data during the reporting month

Air Monitoring Station	Average TSP Concentration, µg/m ³	Range, µg/m ³	Action Level, µg/m ³	Limit Level, µg/m ³
AM2(A)	60	38-100	302	500
AM3	60	32-93	301	500

- 2.28 There was no Action and Limit Level exceedance of 24-hour average TSP and 1-hour average TSP levels recorded during the reporting month.
- 2.29 Graphical presentation and detailed monitoring results of 24-hour average TSP and 1-hour average TSP levels are shown in Appendix G and Appendix H respectively.
- 2.30 The Event and Action Plan is provided in Appendix I.
- 2.31 Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.
- 2.32 Weather conditions during the monitoring periods were generally fine and did not affect the monitoring results.

3. NOISE MONITORING

Monitoring Requirements

- 3.1 In accordance with EM&A Manual (EIA Register No. AEIAR-130/2009), impact noise monitoring shall be carried out during the construction phase of the Project.
- 3.2 Regular monitoring, L_{Aeq, 30-minute}, for each station will be on a weekly basis and conduct one set of measurements between 0700 1900 hrs on normal weekdays.
- 3.3 If construction works are extended to include works during 1900 0700 hrs as well as public holidays and Sundays, additional weekly impact monitoring will be carried out during the respective restricted hours periods.

Monitoring Locations

3.4 Two designated monitoring stations were selected for noise monitoring programme. Impact noise monitoring was conducted at two noise monitoring stations in the reporting month. Table 3.1 describes the noise monitoring locations, which are also depicted in Figure 6.

Noise Monitoring Locations for the Project	Location of Measurement
M4(A) – Le Billionnaire	Podium (Façade)
M5(A) – Prince Ritz	Podium (Façade)

Table 3.1 Locations of Noise Monitoring Stations

Monitoring Parameters, Frequency and Duration

3.5 The noise monitoring locations and monitoring frequency are listed in Table 3.2.

Noise Monitoring Station	Location for Measurement	Parameter	Frequency and Duration
M4(A) – Le Billionnaire	Podium (Façade)	I I and	30-minute measurement at each monitoring station between 0700
M5(A) – Prince Ritz	Podium (Façade)	L_{Aeq} , L_{A10} and L_{A90}	 1900 hrs on normal weekdays (Monday to Saturday) at frequency of once per week.

Table 3.2 Noise Monitoring Parameters, Frequency and Duration

- 3.6 The monitoring schedule for reporting month and next month is presented in Appendix C.
- 3.7 Photographic records of the monitoring setup are shown in Appendix D.

Monitoring Equipment

3.8 As referred to the Technical Memorandum (TM) issued under the Noise Control Ordinance (NCO), sound level meters in compliance with the IEC 61672-1 (Type 1) standard [this standard replaced the International Electrotechnical Commission Publications 60651:1979 (Type 1) and 60804:1985 (Type 1)] were used for noise monitoring. Table 3.3 summarizes the equipment to be used in the noise monitoring.

Table 3.3 Noise Monitoring Equipment

Equipment	Model	Quantity	Calibration Interval
Sound Level Meter	RION NL52	1	1 year
Sound Level Calibrator	RION NC 75	1	1 year
Air Flowmeter	TSI TA440 Air Velocity	1	1 year

3.9 Calibration certificates, catalogue of equipment are given in Appendix J.

Monitoring Methodology and QA/QC Procedure

3.10 The noise level measurement was conducted at 1m from the exterior of the nearby noise sensitive receivers building façade and at 1.2m above the ground and facing to the source area or the planned measurement area.

- 3.11 No noise measurement was conducted in the presence of fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. Air flow was measured by air flow meter.
- 3.12 Turned on the sound level meter and check the battery, if too low, change new ones.
- 3.13 Calibration was conducted immediately prior to and after each noise measurement, the accuracy of the sound level meters was checked by using sound calibrator generating 1,000 Hz with 94dB. Measurement data was found to be valid only if the calibration levels from before and after the noise measurement agreed to within 1.0 dB.
- 3.14 Noise level was recorded.
- 3.15 Recorded any activities that may generate noise during measurement period.

Maintenance and Calibration

- 3.16 The microphone of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 3.17 The sound level meter and sound calibrator were calibrated annually.
- 3.18 Calibration for sound level meter was conducted immediately prior to and following each noise measurement by using sound calibrator generating a known sound pressure level at a known frequency (1,000 Hz with 94dB). Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

Action and Limit Levels

3.19 The Baseline Noise Levels and Action and Limit Levels for construction noise is presented in Table 3.4.

Time Period	Noise Monitoring Station	Baseline Noise Levels, dB (A)	Action Level	Limit Level [^]
0700 – 1900 hrs	M4(A)	69.5	When one documented	$75 \ln(\Lambda)$
on normal weekdays	M5(A)	72.5	complaint is received.	75 dB(A)

Table 3.4 Baseline Noise Level and Action and Limit Levels for Construction Noise Monitoring

Note: ^ If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

Impact Noise Monitoring results

3.20 Impact noise monitoring results at the designated noise monitoring stations are summarized in Table 3.5 respectively.

Noise Limit Measured LAeq, 30-min, Measured LAeq, 30-min, Monitoring Action Level Level Average, dB(A)Range, dB(A)Station M4(A)70.4 69.3 - 71.9 When one documented 75 complaint is received dB(A)72.9 72.2 - 73.8M5(A)

Table 3.5 Summary of Noise Monitoring Data during the reporting month

Note: ^ If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

- 3.21 There was no Action and Limit Level exceedance of L_{Aeq, 30-min} recorded during the reporting month.
- 3.22 Graphical presentation and detailed monitoring results are shown in Appendix K.
- 3.23 The Event and Action Plan is provided in Appendix L.
- 3.24 Non-project related construction activities in the adjacent construction sites were observed during the reporting period and may affect the monitoring results.
- 3.25 Weather conditions during the monitoring periods were generally fine and did not affect the monitoring results.

4. COMPARISON OF EM&A RESULTS WITH EIA PREDICTIONS

4.1 The environmental impacts predictions were given in Agreement No. CE 35/2006(CE) Kai Tak Development Engineering Study cum Design and Construction of Advance Works -Investigation, Design and Construction - Kai Tak Development Environmental Impact Assessment Report, EIA Register No. AEIAR-130/2009 for Kai Tak Development (The EIA Report). The EM&A data was compared with the EIA predictions as summarized in Table 4.1 to Table 4.3.

Table 4.1 Comparison of 24-hour average TSP Monitoring Data with EIA predictions

Air Monitoring Station	ASR No. in EIA report	Predicted Cumulative Maximum24-hour average TSP concentrationScenario 1Scenario 1Scenario 2(Mid 2009 to Mid 2013), $\mu g/m^3$ (Mid 2013 to Late 2016), 		Measured 24-hr average TSP in Reporting Month (April 2022) µg/m ³
AM2(A) - Ng Wah Catholic Secondary School	NA	NA	NA	42 – 127
AM3 - Sky Tower	A40^	106^	138^	27 - 102

Note:

^ Prediction results are given in the Table 3.13 of the EIA report EIA Register No. AEIAR-130/2009 for Kai Tak Development.

Table 4.2 Comparison of 1-hour average TSP Monitoring Data with EIA predictions

Air Monitoring Station	ASR No. in EIA report	Predicted Cumulative Maximum1-hour average TSP concentrationScenario 1Scenario 2(Mid 2009 to Mid 2013),(Mid 2013 to Late 2016), µg/m³		Measured 1-hr average TSP in Reporting Month (April 2022) µg/m ³
AM2(A) - Ng Wah Catholic Secondary School	NA	NA	NA	38 - 100
AM3 - Sky Tower	A40^	217^	247^	32 - 93

Note:

^ Prediction results are given in the Table 3.13 of the EIA report EIA Register No. AEIAR-130/2009 for Kai Tak Development.

Noise Monitoring Station	NSR No. in EIA report	Predicted Mitigated Construction Noise Levels during Normal Daytime Working Hour LAeq, 30min, dB(A)	Measured Noise Level in Reporting Month (April 2022) L _{Aeq, 30min} , dB(A)
M4(A) – Le Billionnaire	NA	NA	69.3 - 71.9
M5(A) – Prince Ritz	NA	NA	72.2 - 73.8

Table 4.3 Comparison of Noise Monitoring Data with EIA predictions

- 4.2 No prediction in the EIA Report for 24-hour TSP monitoring results at AM2(A).
- 4.3 24-hour TSP monitoring results at AM3 was recorded lower than the prediction in the EIA Report.
- 4.4 No prediction in the EIA Report for 1-hour TSP monitoring results at AM2(A).
- 4.5 1-hour TSP monitoring results at AM3 was recorded lower than the prediction in the EIA Report.
- 4.6 No prediction in the EIA Report for noise monitoring results at M4(A) and M5(A).

5. LANDSCAPE AND VISUAL MONITORING

5.1 In accordance with EM&A Manual (EIA Register No. AEIAR-130/2009), Landscape and Visual Monitoring shall be carried out during the construction phase of the Project. Regular impact monitoring will be conducted at least once per week.

Results and Observations

- 5.2 Site inspections were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.
- 5.3 Site inspections were conducted on 7, 14, 21 and 28 April 2022 in the reporting month.
- 5.4 The summary of site audits is attached in Table 5.1.

Table 5.1 Summary of observations of Landscape and Visual impact during the reporting month

Inspection Date	Key Observations	Recommendations / Actions	Close-out Date / Status
7 April 2022	No	NA	NA
14 April 2022	No	NA	NA
21 April 2022	No	NA	NA
28 April 2022	No	NA	NA

- 5.5 No non-compliance of the landscape and visual impact was recorded in the reporting month.
- 5.6 Should non-compliance of the landscape and visual impact occur, action in accordance with the action plan presented in Appendix M shall be performed.

6. ENVIRONMENTAL SITE INSPECTION AND AUDIT

Site Inspection

- 6.1 Site inspections were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.
- 6.2 Site inspections were conducted on 7, 14, 21 and 28 April 2022 in the reporting month.
- 6.3 The summaries of site audits are attached in Table 6.1.

Table 6.1 Summary o	f site inspections obse	ervations during the	e reporting month

Inspection Date	Key Observations	Recommendations / Actions	Close-out Date / Status
7 April 2022	Observation: Stagnant water was observed on the I-beam in LW02.	Action Taken: Stagnant water was removed.	Closed out on 14 April 2022
14 April 2022	Observation: The NRMM label for the excavator was missed, please ensure the label should be properly placed.	Action Taken: The NRMM label has been shown on the excavator.	Closed out on 21 April 2022



Inspection Date	Key Observations	Recommendations / Actions	Close-out Date / Status
28 April 2022	Observation: The QPME label for the generator was missed. Please ensure the label should be properly placed.	Action Taken: The QPME label has been shown on the excavator.	5 May 2022

Status of Waste Management

- 6.4 The amount of wastes generated by the major site activities of the work contracts within the Project during the reporting month is shown in Appendix N.
- 6.5 The Contractor was registered as a chemical waste producer for the Project. The Contractor was reminded that chemical waste containers should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.

Status of Environmental Licenses, Notification and Permits

6.6 A summary of the relevant permits, licenses and/or notifications on environmental protection for the Project is shown in Table 6.2.

Environmental Licenses, Notifications and Permits	Ref. No.	Valid Form	Valid Till
Environmental Permit under EIAO	EP-337/2009	23 Apr 2009	N/A
Construction Dust Notification under APCO	HA/1826/1	29 Dec 2020	N/A
Waste Disposal Billing Account	7038086	21 Aug 2020	N/A
Registration as a Chemical Waste	5111-286-B2596-01	15 Sep 2020	N/A

Table 6.2 Summary of Environmental Licenses, Notifications and Permits

Environmental Licenses, Notifications and Permits	Ref. No.	Valid Form	Valid Till
Producer			
Westerreter Dischange Lisense under	WT00037618-2021	29 Mar 2021	31 Mar 2026
Wastewater Discharge License under WPCO	WT00037370-2021	29 Mai 2021	51 Mai 2020
wred	WT00038562-2021	15 July 2021	31 July 2026
	GW-RE1261-21	22 Dec 2021	19 June 2022
Construction Noise Permit	GW-RE1275-21	30 Dec 2021	19 June 2022
	GW-RE0291-22	6 Apr 2022	20 Jun 2022

Implementation Status of Environmental Mitigation Measures

6.7 The Contractor has implemented environmental mitigation measures and requires as stated in the EIA report, the EP and the EM&A Manual. The implementation status of the mitigation measures is summarized in Appendix O.

Environmental Complaint and Non-compliance

6.8 No complaint was received in the reporting month. Summary of complaints in the reporting month is tabulated in Table 6.3.

Table 6.3 Summary of complaints in the Reporting Month

Date of complaint received	Date of compliant	Description of complaint	Recommendations / Action taken	Close-out date / Status
No complaint was received in the reporting month.	NA	NA	NA	NA

6.9 Complaint log is shown in Appendix P.

Notifications of summons and successful prosecutions

6.10 No notification of summons and successful prosecutions was received in the reporting month. Summary of summons and successful prosecutions in the reporting month is tabulated in Table 6.4.

Date of receiving notification of summons or prosecutions	Date of event	Description of event	Action taken	Close-out date / Status
No notification of summons and successful prosecutions were received in	NA	NA	NA	NA
the reporting month.				

Table 6.4 Summary of summons and successful prosecutions in the Reporting Month

6.11 The summaries of cumulative environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in Appendix P.

7. FUTURE KEY ISSUES

Construction Programme in the coming month

7.1 The major construction activities and potential impacts in the next reporting month are as follows:

Table 7.1 Summary of future key issues and potential impact in the coming month

Future key issues in the coming month	Potential impact
Pile cap and column construction for Pier 9 and Pier 10 at	Noise and Air Quality
Elevated Walkway LW-02	
Erection of temporary deck across existing Kai Tak River	Noise and Air Quality
Construction of Crowd Dispersal Route	Noise and Air Quality
Construction of Road L16	Noise and Air Quality
Construction of DCS	Noise and Air Quality
Construction of Pedestrian Street No. 1, No. 2, No.3 & No.4	Noise and Air Quality
Underground utility diversion works at Sa Po Road	Noise and Air Quality
ELS and excavation for launching shaft for subway SB-01	Noise and Air Quality
Renovation works for existing subway KS9 and KS32	Noise and Air Quality
Twin rising main connection works	Noise and Air Quality

- 7.2 The mitigation measures for environmental impact including Air Quality, Construction Noise, Water Quality, Chemical and Waste Management, Landscape and Visual shall be implemented:
 - Sufficient watering of the works site with the active dust emitting activities,
 - Limitation of the speed for vehicles on unpaved site roads,
 - Properly cover the stockpiles,
 - Good maintenance to the plant and equipment,
 - Use of quieter plant and Quality Powered Mechanical Equipment (QPME),
 - Provide movable noise barriers,
 - Appropriate desilting/ sedimentation devices provided on site for treatment before discharge,
 - Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall,
 - Onsite waste sorting and implementation of trip ticket system,
 - Good management and control on construction waste reduction,
 - Erection of decorative screen hoarding,
 - Strictly following the Environmental Permits and Licenses, and
 - Provide sufficient mitigation measures as recommended in Approved EIA Reports.
- 7.3 The recommended environmental measures proposed in the EM&A Manual (EIA Register No. AEIAR-130/2009) shall be effectively implemented to minimize the potential environmental impacts. The Contractor is reminded to implement the mitigation measures properly.

Environmental Site Inspection and Monitoring Schedule for next month

7.4 The tentative schedule for weekly site inspection and air quality and noise monitoring in the next month is provided in Appendix C.

8. CONCLUSIONS

- 8.1 Environmental monitoring works were performed in the reporting month and all monitoring results were checked and reviewed.
- 8.2 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 8.3 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 8.4 Construction noise monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 8.5 No complaint was received in the reporting month.
- 8.6 No notification of summons and successful prosecutions was received in the reporting month.
- 8.7 Based on the site inspection and audits, impact air quality and noise monitoring results, it was considered that the mitigation measures were effective to control the potential environmental impacts from the Project during the reporting period.

Figure

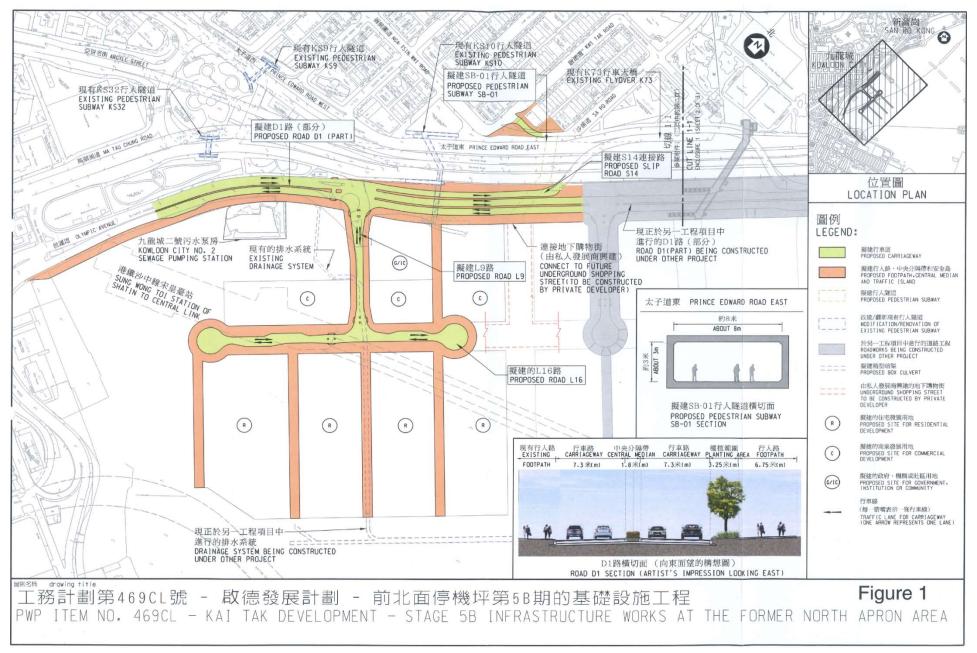


Figure 1 - Proposed works of Contract No. ED/2018/05

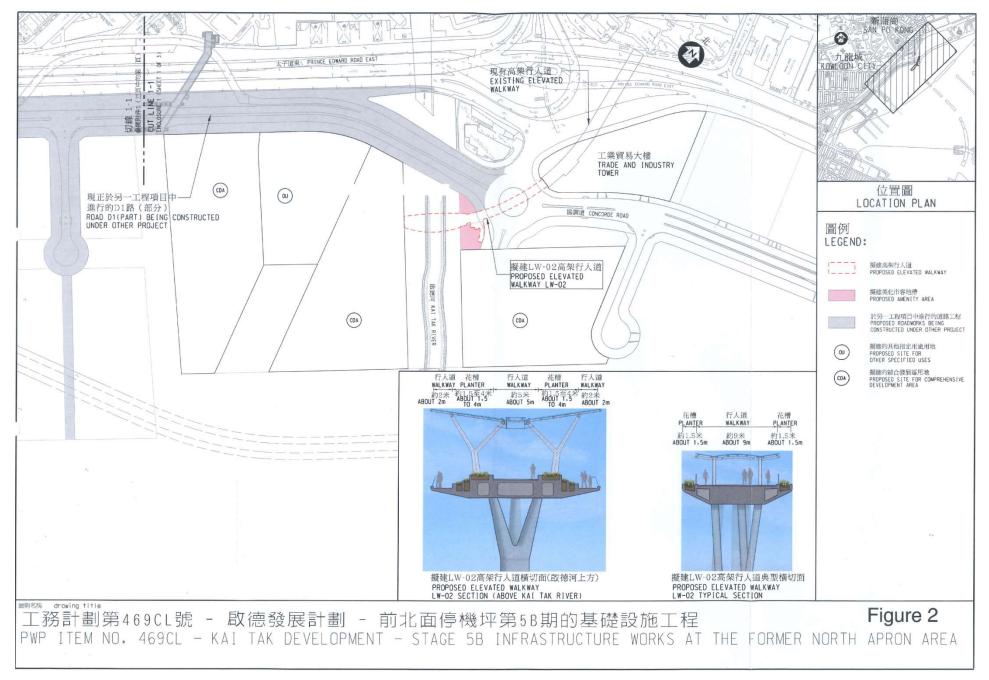


Figure 2 – Proposed works of Contract No. ED/2018/05

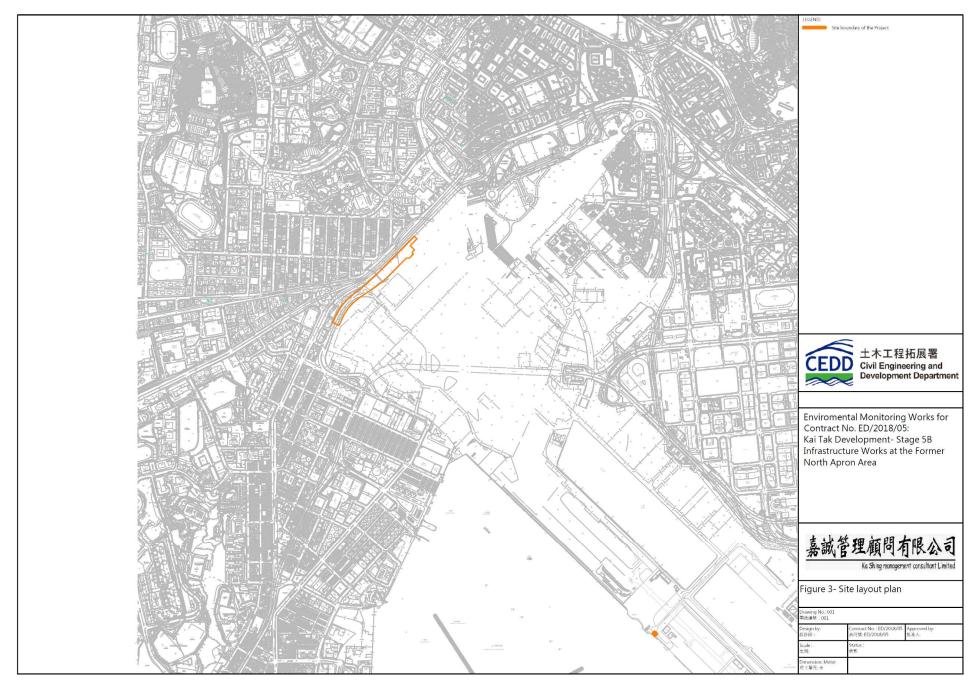


Figure 3 – D1 Road Site Layout Plan

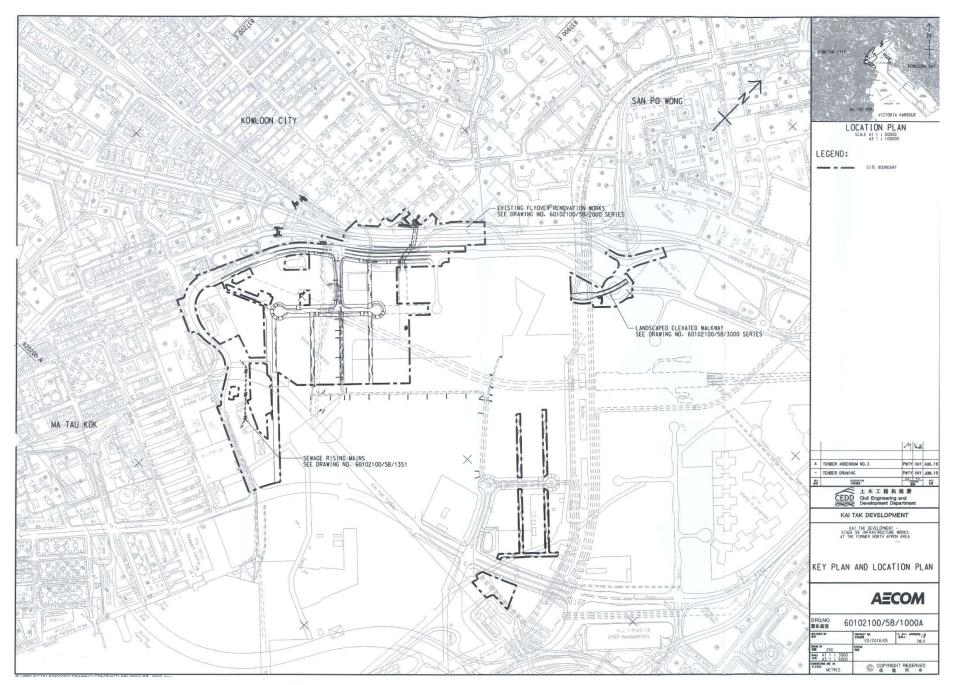


Figure 4 – Site Layout Plan

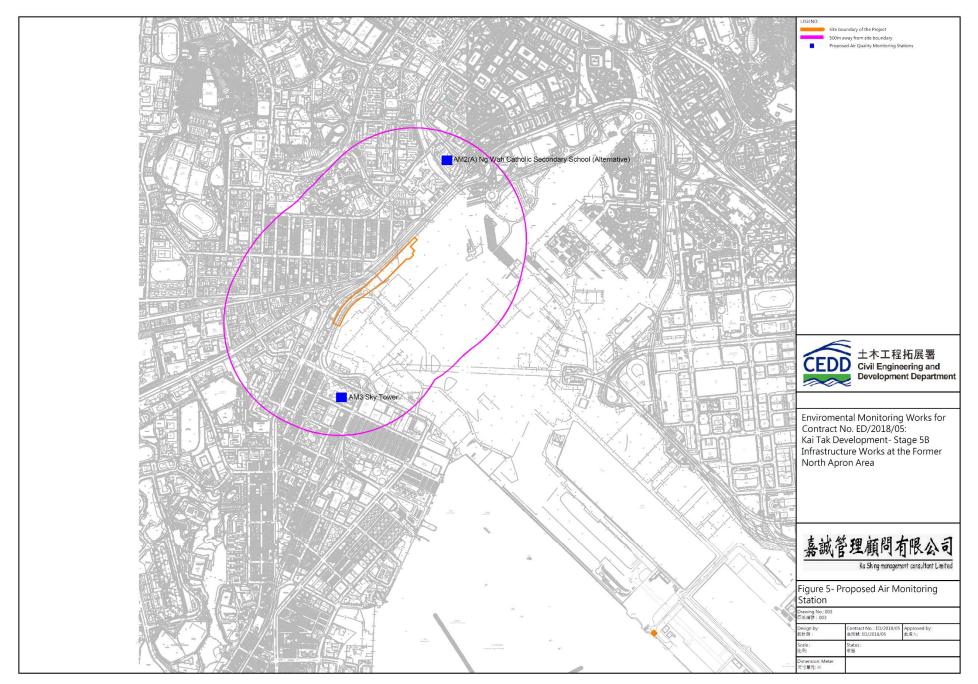


Figure 5 – Air Quality Monitoring Stations

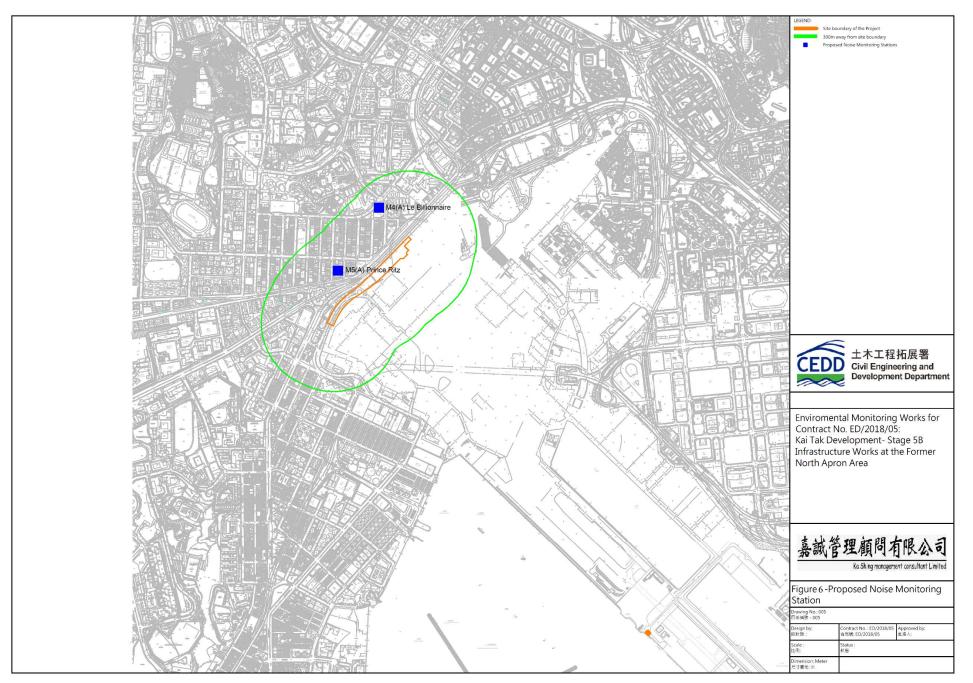
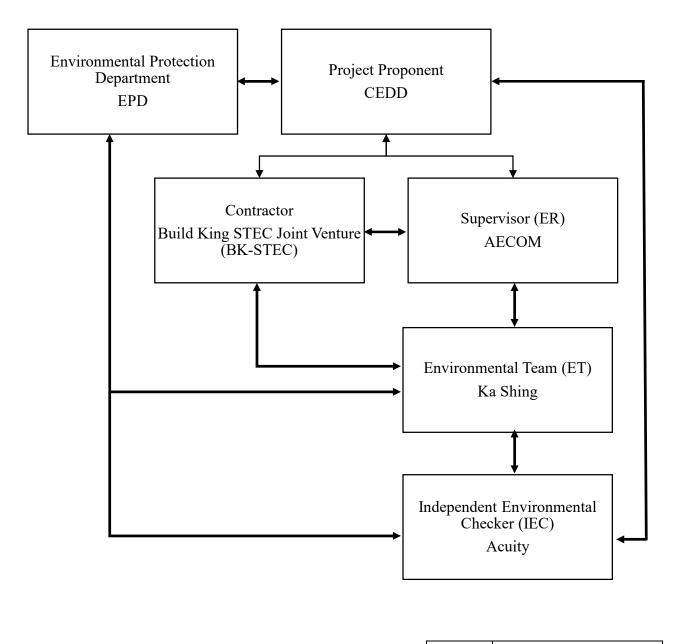
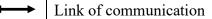


Figure 6 – Noise Monitoring Stations

Appendix A – Organization Chart of EM&A Team





Appendix B – Construction Programme

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| Prepare/submit Temp Geotechnical&Structural Works to HyD/TD/CEDD/GEO and others (incl SB-01 by RTBM, etc.) | 30 | 30d | 0d | 22-Jul-20 | 20-Aug-20 | 22-Jul-20 | 20-Aug-20
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| Application/approval of CNP for night works by relevant authorities and liaison with projects nearby | | | 0d | 19-Dec-20 | 18-Mar-21 | 27-Nov-21 |
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| Prepare/submit Site Traffic Safety Management Plan | 41 | 41d | 0d | 22-Jul-20 | 31-Aug-20 | 23-Jul-20 | 01-Sep-20
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| Prepare/submit Construction Health and Safety Plan | 29 | 29d | 0d | 22-Jul-20 | 19-Aug-20 | 23-Jul-20 | 20-Aug-20
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| 11th SSMC Meeting | 1 | 1d | 0d | 24-Jun-21 | 24-Jun-21 | 24-Jun-21 | 24-Jun-21
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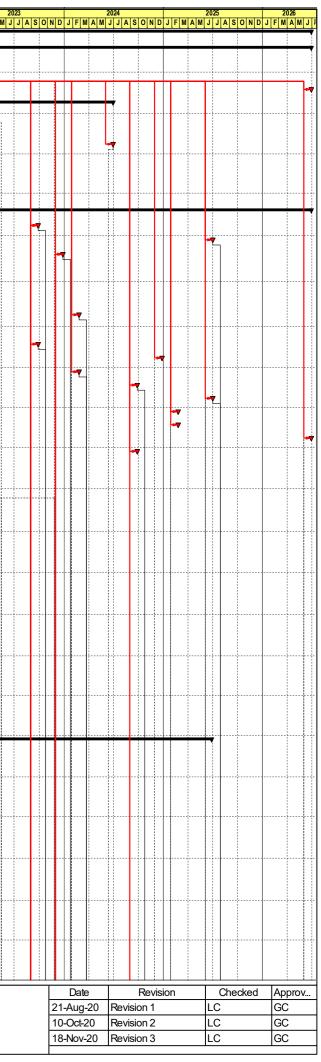
Critical Work

Summary



ED/2018/05 Kai Tak Development - Stage 5B Infrastructure Works at the Former North Apron Area WORKS PROGRAMME

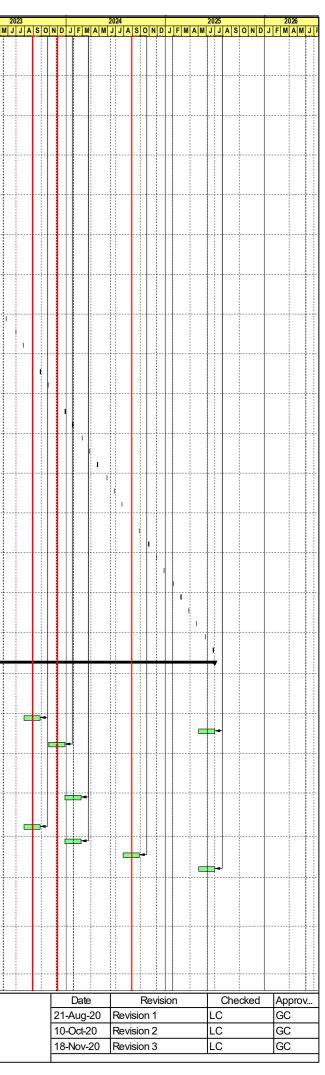
(Page 1 of 5)



Activity ID	Activity Name	Dur (d)	Ori. Dur	TRA	Early Start	Early Finish	Late Start	Late Finish	Total	Calenda	r 10		_	203	21			2022		_
			(d)	(d)	-	-			Float			OND	JFM			ONDJ	FMA		ONDJF	MAM
KTD.KD.1590 KTD.KD.1600	13th SSMC Meeting 14th SSMC Meeting	1	1d 1d	0d 0d	26-Aug-21 30-Sep-21	26-Aug-21 30-Sep-21	26-Aug-21 30-Sep-21	26-Aug-21 30-Sep-21	0	2	-									
KTD.KD.1610	15th SSMC Meeting	1	1d	0d	28-Oct-21	28-Oct-21	28-Oct-21	28-Oct-21	0	2	-									
KTD.KD.1620	16th SSMC Meeting	1	1d	0d	25-Nov-21	25-Nov-21	25-Nov-21	25-Nov-21	0	2									1	
KTD.KD.1630	17th SSMC Meeting	1	1d	0d	30-Dec-21	30-Dec-21	30-Dec-21	30-Dec-21	0	2										
KTD.KD.1640	18th SSMC Meeting	1	1d	0d	27-Jan-22	27-Jan-22	27-Jan-22	27-Jan-22	0	2							1		ļ	
KTD.KD.1650	19th SSMC Meeting	1	1d	0d	24-Feb-22	24-Feb-22				2	-									
KTD.KD.1660 KTD.KD.1670	20th SSMC Meeting 21st SSMC Meeting	1	1d 1d	0d 0d	31-Mar-22 28-Apr-22	31-Mar-22 28-Apr-22	31-Mar-22 28-Apr-22	31-Mar-22 28-Apr-22	0	2	-									
KTD.KD.1680	22nd SSMC Meeting	1	1d	0d	26-May-22	26-May-22			-	2								1		
KTD.KD.1690	23rd SSMC Meeting	1	1d	0d	30-Jun-22	30-Jun-22	30-Jun-22	30-Jun-22	0	2										
KTD.KD.1700	24th SSMC Meeting	1	1d	0d	28-Jul-22	28-Jul-22	28-Jul-22	28-Jul-22	0	2								1		
KTD.KD.1710	25th SSMC Meeting	1	1d	0d	25-Aug-22	25-Aug-22	-	-		2										
KTD.KD.1720	26th SSMC Meeting	1	1d	0d	29-Sep-22	29-Sep-22	-	-		2	-									
KTD.KD.1730 KTD.KD.1740	27th SSMC Meeting 28th SSMC Meeting	1	1d 1d	0d 0d	27-Oct-22 24-Nov-22	27-Oct-22 24-Nov-22	27-Oct-22 24-Nov-22	27-Oct-22 24-Nov-22	0	2										
KTD.KD.1750	29th SSMC Meeting	1	1d	0d	29-Dec-22	29-Dec-22	29-Dec-22			2										
KTD.KD.1760	30th SSMC Meeting	1	1d	0d	26-Jan-23	26-Jan-23	26-Jan-23	26-Jan-23	0	2									1	
KTD.KD.1770	31st SSMC Meeting	1	1d	0d	23-Feb-23	23-Feb-23	23-Feb-23	23-Feb-23	0	2										
KTD.KD.1780	32nd SSMC Meeting	1	1d	0d	30-Mar-23	30-Mar-23	30-Mar-23		0	2										
KTD.KD.1790	33rd SSMC Meeting	1	1d	0d	27-Apr-23	27-Apr-23	27-Apr-23	27-Apr-23	0	2									<u></u>	
KTD.KD.1800 KTD.KD.1810	34th SSMC Meeting 35th SSMC Meeting	1	1d 1d	Od Od	25-May-23 29-Jun-23	25-May-23 29-Jun-23	25-May-23 29-Jun-23	25-May-23 29-Jun-23	0	2	-									
KTD.KD.1820	36th SSMC Meeting	1	1d	0d	27-Jul-23	23-Jul-23	27-Jul-23	23-Jul-23	0	2	- 11									
KTD.KD.1830	37th SSMC Meeting	1	1d	0d	31-Aug-23	31-Aug-23	31-Aug-23	31-Aug-23	-	2									1	
KTD.KD.1840	38th SSMC Meeting	1	1d	0d	28-Sep-23	28-Sep-23	28-Sep-23	-		2										
KTD.KD.1850	39th SSMC Meeting	1	1d	0d	26-Oct-23	26-Oct-23	26-Oct-23	26-Oct-23	0	2										
KTD.KD.1860	40th SSMC Meeting	1	1d	Od	30-Nov-23	30-Nov-23	30-Nov-23	30-Nov-23		2										
KTD.KD.1870	41st SSMC Meeting	1	1d	D0	28-Dec-23	28-Dec-23	28-Dec-23	28-Dec-23		2	-									
KTD.KD.1880 KTD.KD.1890	42nd SSMC Meeting 43rd SSMC Meeting	1	1d 1d	0d 0d	25-Jan-24 29-Feb-24	25-Jan-24 29-Feb-24	25-Jan-24 29-Feb-24	25-Jan-24 29-Feb-24	0	2										
KTD.KD.1900	44th SSMC Meeting	1	1d	0d	28-Mar-24	28-Mar-24	28-Mar-24	28-Mar-24		2										
KTD.KD.1910	45th SSMC Meeting	1	1d	0d	25-Apr-24	25-Apr-24	25-Apr-24	25-Apr-24	0	2										
KTD.KD.1920	46th SSMC Meeting	1	1d	0d	30-May-24	30-May-24	30-May-24	30-May-24	0	2										
KTD.KD.1930	47th SSMC Meeting	1	1d	0d	27-Jun-24	27-Jun-24	27-Jun-24	27-Jun-24	0	2										
KTD.KD.1940	48th SSMC Meeting	1	1d	0d	25-Jul-24	25-Jul-24	25-Jul-24	25-Jul-24	0	2										
KTD.KD.1950 KTD.KD.1960	49th SSMC Meeting 50th SSMC Meeting	1	1d 1d	0d 0d	29-Aug-24 26-Sep-24	29-Aug-24 26-Sep-24	29-Aug-24 26-Sep-24	29-Aug-24 26-Sep-24	0	2	-									
KTD.KD.1970	51st SSMC Meeting	1	1d	0d	31-Oct-24	31-Oct-24	31-Oct-24	31-Oct-24	0	2										
KTD.KD. 1980	52nd SSMC Meeting	1	1d	0d	28-Nov-24	28-Nov-24	28-Nov-24	28-Nov-24		2										
KTD.KD.1990	53rd SSMC Meeting	1	1d	0d	26-Dec-24	26-Dec-24	26-Dec-24	26-Dec-24	0	2										
KTD.KD.2000	54th SSMC Meeting	1	1d	0d	30-Jan-25	30-Jan-25	30-Jan-25	30-Jan-25	0	2										
KTD.KD.2010	55th SSMC Meeting	1	1d	b0	27-Feb-25	27-Feb-25				2	-									
KTD.KD.2020 KTD.KD.2030	56th SSMC Meeting 57th SSMC Meeting	1	1d 1d	0d 0d	27-Mar-25 24-Apr-25	27-Mar-25 24-Apr-25	27-Mar-25 24-Apr-25	27-Mar-25 24-Apr-25	0	2										
KTD.KD.2040	58th SSMC Meeting	1	1d	0d	29-May-25	29-May-25	29-May-25	29-May-25	0	2										
KTD.KD.2050	59th SSMC Meeting	1	1d	0d	26-Jun-25	26-Jun-25	26-Jun-25	26-Jun-25		2										
BIM RELATED	DELIVERABLES	1796			31-Jul-20	30-Jun-25	01-Aug-20	30-Jun-26	365	2	-									-
KTD.KD.2060	Prepare/submit BIM Execution Plan	29	29d	0d	31-Jul-20	28-Aug-20	01-Aug-20	29-Aug-20	1	2	-									
KTD.KD.2070	Prepare/submit Combined Services Drawings and CBWD generated from BIM	44	44d	0d	31-Jul-20	12-Sep-20	01-Aug-20	13-Sep-20	1	2										
KTD.KD.2080	Prepare/submit proposal of asset information requirement	364	364d	0d	31-Jul-20	29-Jul-21	01-Aug-20	30-Jul-21	1	2	-									
KTD.KD.2090 KTD.KD.2100	Prepare/submit Asset Data Deliverables for Section 1 Prepare/submit Asset Date Deliverables for Section 2	60 60	60d 60d	0d 0d	29-Jul-23 02-May-25	26-Sep-23 30-Jun-25	02-May-26 02-May-26			2	-									
KTD.KD.2110	Prepare/submit Asset Date Deliverables for Section 3	60	60d	0d	29-Oct-23	27-Dec-23	02-May-26	30-Jun-26		2										
KTD.KD.2120	Prepare/submit Asset Date Deliverables for Section 4	60	60d	0d	02-May-21	30-Jun-21	02-May-26	30-Jun-26	1826	2					•					
KTD.KD.2130	Prepare/submit Asset Date Deliverables for Section 5	60	60d	0d	19-Oct-21	17-Dec-21	02-May-26	30-Jun-26	1656	2						₩				
KTD.KD.2140	Prepare/submit Asset Date Deliverables for Section 6	60	60d	0d	29-Jan-22	29-Mar-22	02-May-26	30-Jun-26	1554	2									4	
KTD.KD.2150	Prepare/submit Asset Date Deliverables for Section 7	60	60d	0d	28-Dec-23	25-Feb-24	02-May-26			2	-				_					
KTD.KD.2160	Prepare/submit Asset Date Deliverables for Section 8	60	60d	0d	31-May-21	29-Jul-21	02-May-26	30-Jun-26		2	-									
KTD.KD.2170	Prepare/submit Asset Date Deliverables for Section 9	60	60d	0d	29-Jul-23	26-Sep-23	02-May-26	30-Jun-26	_	2										
KTD.KD.2190 KTD.KD.2200	Prepare/submit Asset Date Deliverables for Section 11 Prepare/submit Asset Date Deliverables for Section 12	60 60	60d 60d	0d 0d	28-Dec-23 28-Jul-24	25-Feb-24 25-Sep-24	02-May-26 02-May-26	30-Jun-26 30-Jun-26		2	-									
KTD.KD.2200	Prepare/submit Asset Date Deliverables for Section 12 Prepare/submit Asset Date Deliverables for Section 13	60	60d	0d	02-May-25	30-Jun-25	02-May-26	30-Jun-26		2										
	NEERING SHCEME DROP-OFF SCHEDULE	833			31-Jul-20	10-Nov-22	31-Jul-20	10-Nov-22	_	2	+								₩	
KTD.VE.1000	Review/prepare/submit VE scheme for permanent concrete segment for Pedestrian Subway SB-01	153	96d	0d	31-Jul-20	30-Dec-20	31-Jul-20	30-Dec-20	0	2	┝╼╼┥									
KTD.VE.1010	Review/prepare/submit VE scheme for alternative alignment for Pedestrian Subway SB-01	165	133d	0d	31-Jul-20	11-Jan-21	31-Jul-20	11-Jan-21	0	2	┟╧┻┥									
KTD.VE.1020	Review/prepare/submit VE scheme for pilling arrangement for new pier of existing Bridge K73	431	426d	0d	01-Aug-20	05-Oct-21	01-Aug-20	05-Oct-21	0	2		 -				, 			+	
KTD.VE.1020	Review/prepare/submit VE scheme for pilling arrangement for abutment of Slip Road S14	832	752d	0d	01-Aug-20 01-Aug-20	10-Nov-22	01-Aug-20	10-Nov-22	_	2				_						
KTD.VE.1030	Review/prepare/submit VE scheme for piling arrangement for lift shaft of KS10	627	766d	0d	01-Aug-20	19-Apr-22	01-Aug-20	19-Apr-22		2										
KTD.VE.1040	Review/prepare/submit VE scheme for piling arrangement for lift shaft and staircase of LW-02	677	288d		31-Jul-20	07-Jun-22	31-Jul-20	07-Jun-22	_			 -								
KID.VE.1050		0//	2000	Od	JI-JUI-ZU	ur-Jun-22	5 I-JUI-20	or-Jun-22	0	2										
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Build King – STEC Joint Venture

WORKS PROGRAMME (Page 2 of 5)



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DBD 000 Converties of Conv	Construction Construction CD.SB.1060 Backfilling for	on of traffic diversion for PERE westbound	0	0d	0d		23-Aug-21		23-Aug-21	0	1					7				
The Model Model Set is the Mathematican Mathematim Mathematim Mathematican Mathematican Mathematican Mat	TD.SB.1070 Backfilling for	ELS and excavation for South Shaft at Proposed Road D1	104	132d	12d	26-May-22	28-Sep-22	26-May-22	28-Sep-22	0	1								-	-
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1000000000000000000000000000000000000	TD.SB.1150 Installation of	ELS and excavation for Intermediate Shaft at PERE westbound and tunneling setup	78	72d	6d	24-Aug-21	25-Nov-21	24-Aug-21	25-Nov-21	0	1					-				
Den 1 Head is a local of the second of the CM and electron of the CM and electron of the CM and electron of the control of the CM and electron of the CM and elect	TD.SB.1160 Ground impr	vement works at Intermediate Shaft at PERE westbound for break-in	27	24d	3d	27-Nov-21	30-Dec-21	27-Nov-21	30-Dec-21	0	1						4			
Dia Hunding of FUNA waters also Products for Dia You Di	TD.SB.1170 Conduct seis	nic geophysical survey for PERE and other site investigation works	26	24d	2d	31-Dec-21	31-Jan-22	25-Feb-22	26-Mar-22	44	1						-			
19.00 Starting of TBM and mund is not learn obtained PEEL webboard 44 45 45 44 44 45 44 54.04/2 54.04/2 1	TD.SB.1180 Mobilization,	assembly and SAT of RTBM at Intermediate Shaft at PERE westbound	70	64d	6d	31-Dec-21	26-Mar-22	31-Dec-21	26-Mar-22	0	1						-			1
The NUMB of Mathematican Marked Forder Scatter Marked Ma	TD.SB.1190 Launching of	TBM towards North Shaft at Sa Po Road from CH57 to CH17 (38m, 1.5m/day)	60	48d	12d	27-Mar-22	25-May-22	27-Mar-22	25-May-22	0	2							╘╼╧	-	
103 & 120	TD.SB.1200 Dismantling	f RTBM and removal from Intermediate Shaft at PERE westbound	54	52d	2d	26-May-22	29-Jul-22	26-May-22	29-Jul-22	0	1								-	
103.8 120 Baskfirg for thermodule 3 bend at PERE westbound 4 40 64 64 158-p22 694-bv22 0 1	TD.SB.1210 Installation of	horizontal pipe pile and excavation from CH14 to CH17 (74nos HPP, 270m3 exca)	43	37d	6d	26-May-22	16-Jul-22	26-May-22	16-Jul-22	0	1						-	T	-	1
10.88 1/2 Particle Provide Profile Profi	TD.SB.1220 Construction	of RC structure at Intermediate Shaft at PERE westbound from CH57 to CH67	36	30d	6d	30-Jul-22	09-Sep-22	30-Jul-22	09-Sep-22	0	1								╞╼╤	1
10:88: 20 Conductor of Nothery at Name 10:80: 20 Solution of Name 10:80: 20 <	TD.SB.1230 Backfilling for	Intermediate Shaft at PERE westbound and reinstatement of existing road at PERE westbound	48	42d	6d	13-Sep-22	09-Nov-22	13-Sep-22	09-Nov-22	0	1								-	–
TDB 81/60 Budding Var Mc1 Sub at Sa Park 0			-								1								_	7
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IER 9 200 E-V30 07-Jul 21	TD.LW.1110 Construction	of RC structure (pile cap & pier column) (149m3, 1 team)	65	53d	12d	07-May-21	24-Jul-21	07-May-21		0	1			14	Ŧ	1				
TD LW.1010 Piling works for bored piles (2nos, 2200(ia x 67m, 1 rig)) 80 75d 5d 01-Dec 20 31-Mar-21 16-Dec 20 31-Mar-21 15 1 TD LW.1020 Instalation of ELS and excavation for pile cap construction (5205m3 exc., 1 team) 26 22d 4d 11-Mar-21 01-Mpr-21 07-Mar-21 05-Mar-21 15 1 TD LW.1030 Construction of RC structure (ile cap & pier column) (184m3, 1 team) 65 53d 12d 19-Apr-21 07-Mar-21 07-Mar-21 07-Mar-21 07-Mar-21 05-Mar-21 15 1 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td>1</td> <td></td> <td></td> <td></td> <td>T</td> <td></td> <td></td> <td></td> <td></td> <td></td>										_	1				T					
TD LW.1020 Installation of ELS and excavation for pile cap construction (\$20.5m3 exca, 1 team) 26 22d 4d 11-Mar-21 01-Apr-21 06-May-21 15 1 TD LW.1020 Construction of RC structure (pile cap & pier column) (184m3, 1 team) 65 53d 12d 19-Apr-21 07-May-21 47-Jul-21 17-Ebz-22 04-Jun-21 13-Sep-22 08 DD LW.1040 Piling works for them, pre-bored H-piles (12 nos, 510dia x 69m, 2 ngs) 52 42d 10d 01-Apr-21 17-Ebz-22 04-Jun-21 13-Sep-22 08 0 DD LW.1040 Piling works for them, pre-bored H-piles (12 nos, 510dia x 69m, 2 ngs) 52 42d 10d 01-Apr-21 17-Ebz-22 04-Jun-21 22-May-24 0 1 DLW.1060 Instalation and execting temp, working platform 78 52d 26d 05-Jul-21 24-Jul-21 14-Jan-22 0 1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											1									
D1.W.1030 Construction qRC structure (pile cap & pier column) (184m3, 1 team) 65 53d 12d 19-Apr-21 07-May-21 24-Jul-21 15 1 D0TBR/DGC (PIER 9TO PIER 10) 323	-	· · · · · · · · · · · · · · · · · · ·		75d	5d	01-Dec-20	10-Mar-21	18-Dec-20	31-Mar-21	15	1			# :						
DOTBRIDGE (PIER 9TO PIER 10) 323 Image: Construction of Apr-21 17.Feb-22 04.Jun-21 13.Sep-22 208 Image: Construction of Apr-21 21.W1-21 13.Sep-22 208 Image: Construction of Apr-21 22.Way-21 04.Jun-21 23.Sep-22 208 Image: Construction of Apr-21 24.Way-21 04.Jun-21 25.Jul-21 64 2 DLW.1000 Instalation and erecting temp, working platform 78 524 260 26.Jul-21 27.Otc12 0.4.Jun-21 25.Jul-21 0.4.Jun-21 0.4.Jun-22 0.4.Jun-21			26	22d	4d	11-Mar-21	17-Apr-21			15	1			17						
DLW.1040 Pling works for temp. pre-bored H-piles (12 nos, 610dia x 69m, 2 rigs) 52 42d 10d 01-Apr-21 25-Jul-21 25-Jul-21 64 2 DLW.1050 Instalation and erecting temp. working platform 78 52d 26d 26-Jul-21 25-Jul-21 25-Jul-21 0 1 DLW.1050 Onstruction of RC bridge structure (1079m3, 4 teams) 65 50d 15d 28-Oct-21 14-Jan-22 28-Oct-21 14-Jan-22 18-Ball 166 1 DLW.1070 Prestressing works 26 26d 04 15Jul-20 06-Oct-21 21-Aspc-22 168 1 DLW.1120 Liaison/coordinate with adjacent project for TTA arrangement 90 90d 0d 31-Jul-20 28-Oct-20 27-Feb-21 27-May-21 211 2 1			65	53d	12d	19-Apr-21	07-Jul-21	07-May-21	24-Jul-21	15	1			<u> </u> \+ q						
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TDLW:1060 Construction of RC bridge structure (1079m3, 4 teams) 65 50d 15d 28-Oct-21 14-Jan-22 28-Oct-21 14-Jan-22 0 1 TDLW:1070 Prestressing works 26 26d 0d 15-Jan-22 17.Feb-22 12-Aug-22 13-Sep-22 168 1 ER 11 433 433 31-Jul-20 06-Oct-21 27.Feb-21 29.Mar-22 174 1 TDLW:1120 Liaison/continate with adjacent project for TTA arrangement 90 90d 0d 31-Jul-20 28-Oct-20 27.Feb-21 29.Mar-22 174 1 TDLW:1120 Initiason/continate with adjacent project for TTA arrangement 90 90d 0d 31-Jul-20 28-Oct-20 27.Hay-21 112 21 2 TDLW:1140 Inepernetation of TTA Pre-drilling works (A nos, 1 rig) 7d 0d 18-Nov-20 23-Jul-21 14-Jan-22 24-Jul-21 142 1 TDLW:1150 Piling works for bored piles (Anos, 1800dia x 78m, 1 rig) 112 100d 12d 25-Jul-21 18-Jun-21 26-Jul-21 14-Jun-22 24-Jul-21 142 1 <							-				2				-					
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TD.LW.1140 Pre-driling works (4 nos, 1 rig) 48 46d 2d 26-Nov-20 23-Jan-21 28-May-21 24-Jul-21 142 1 TD.LW.1150 Pliing works for bored piles (4nos, 1800dia x 78m, 1 rig) 112 100d 12d 25-Jan-21 18-Jun-21 26-Jul-21 06-Dec-21 142 1 TD.LW.1160 Installation of ELS and excavation for pile cap construction (319.9m3 exca, 1 team) 26 22d 4d 19-Jun-21 20-Jul-21 07-Dec-21 08-Jan-22 142 1 TD.LW.1170 Construction of RC structure (pile cap & pier column) (138m3, 1 team) 65 53d 12d 21-Jul-21 06-Oct-21 10-Jan-22 29-Mar-22 142 1 ODTBRIDGE (PIER 10 TO PIER 11) 129 v 07-Oct-21 14-Mar-22 30-Mar-22 13-Sep-22 147 1 TD.LW.1180 Implementation of TTA for Concorde Road roundabout and erecting temp. working platform across carriageway 12 12d 0d 07-Oct-21 30-Mar-22 13-Apr-22 142 1 1 1 1 1 1 1 1 1 1 1 1 1 1											1									
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TDLW.160 Installation of ELS and excavation for pile cap construction (319.9m3 exca, 1 team) 26 22d 4d 19-Jun-21 20-Jul-21 07-Dec-21 142 1 TDLW.170 Construction of RC structure (pile cap & pier column) (138m3, 1 team) 65 53d 12d 21-Jul-21 06-Oct-21 10-Jan-22 29-Mar-22 142 1 OOTBRIDGE (PIER 10 TO PIER 11) 129 V 07-Oct-21 14-Mar-22 30-Mar-22 13-Sep-22 147 1 TDLW.1180 Implementation of TTA for Concorde Road roundabout and erecting temp. working platform across carriageway 12 12d 0d 07-Oct-21 30-Mar-22 13-Apr-22 142 1								-			1		1	-						
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TD.LW.1180 Implementation of TTA for Concorde Road roundabout and erecting temp. working platform across carriageway 12 12d 0d 07-Oct-21 21-Oct-21 30-Mar-22 13-Apr-22 142 1				53d	12d				29-Mar-22	142	1				40					
	OOTBRIDGE (PIER 10	O PIER 11)	129			07-Oct-21	14-Mar-22	30-Mar-22	13-Sep-22	147	1					-		-		
	TD.LW.1180 Implementati	on of TTA for Concorde Road roundabout and erecting temp. working platform across carriageway	12	12d	Od	07-Oct-21	21-Oct-21	30-Mar-22	13-Apr-22	142	1					<u> </u>				
V Milestone Planned W / / / / / / / / / / / / / / / / /	✓ Milestone	Planned W																		
✓ Milestone Planned W ✓ Critical Milestone Summary							Develop	ment - C	Stage St	אזווו ס	astru	iciui	e wu	102	αιιί	IE FC				

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Build King – STEC Joint Venture

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Activity ID	Activity Name	Dur (d)	Ori. Dur	TRA	Early Start	Early Finish	Late Start	Late Finish	Total	Calendar	0	ſ		2021		_	2022	2		_
			(d)	(d)	-				Float			OND	JFM			NDJF	MAMJJ	ASO	NDJFM	AM
	Erecting temp. working platform at roadside	26	24d	2d	22-Oct-21 22-Nov-21	20-Nov-21	23-Apr-22	25-May-22	147	1										
	Construction of RC bridge structure (434m3, 2 teams) Prestressing works	65 26	65d 26d	0d 0d	12-Feb-22	11-Feb-22 14-Mar-22	26-May-22 12-Aug-22	11-Aug-22 13-Sep-22	147 147	1										
	(PIER 11 TO PIER 12)	122	200	ou	22-Oct-21	19-Mar-22	14-Apr-22	13-Sep-22		1					-	╋╋┷┿	▼			
	Implementation of TTA for Concorde Road roundabout and erecting temp. working platform across carriageway	12	12d	0d	22-Oct-21	04-Nov-21	14-Apr-22	30-Apr-22	142	1					-					
KTD.LW.1230	Erecting temp. working platform at roadside	26	24d	2d	05-Nov-21	04-Dec-21	03-May-22	02-Jun-22	142	1					┝					
KTD.LW.1240	Construction of RC bridge structure (311m3, 2 teams)	58	58d	0d	06-Dec-21	17-Feb-22	04-Jun-22	11-Aug-22	142	1										
KTD.LW.1250	Prestressing works and bearing installation works	26	26d	0d	18-Feb-22	19-Mar-22	12-Aug-22	13-Sep-22	142	1						-	۹			
	STAIR CASE, SOFT LANDSCAPING & OTHER WORKS	787			25-Jan-21	26-Sep-23	17-Nov-21	26-Sep-23	0	1										
	Pre-drilling works (6 nos, 2 rig)	48	46d	2d	25-Jan-21	24-Mar-21	17-Nov-21	14-Jan-22		1					-+					
	Piling works for pre-bored H-piles for PC1, PC2, PC3 and PC4 (19 nos, 610dia x 70m, 2 rigs)	78	72d	6d	15-Jan-22	23-Apr-22	15-Jan-22	23-Apr-22	0	1							7			
KTD.LW.1280	Installation of ELS and excavation for pile caps construction (PC1, PC2, PC3 and PC4, 379.1m3 exca, 1 team)	38	34d	4d	25-Apr-22	10-Jun-22	25-Apr-22	10-Jun-22	0	1							_			
KTD.LW.1290 KTD.LW.1300	Construction of RC structures (inclu. pile caps, pier column, lift shaft, staircase, etc.) Lift and other E&M installation, testing and commissioning	78 156	64d 144d	14d 12d	11-Jun-22 14-Sep-22	13-Sep-22 23-Mar-23	11-Jun-22 16-Nov-22	13-Sep-22 30-May-23	0 52	1										
KTD.LW.1300	Construction of roof, planter, landscape softworks, other facilities and ABWF works for whole walkway	208	182d	26d	14-Sep-22	30-May-23	14-Sep-22	30-May-23	0	1									L	-
	Planned Completion of Landscaped Elevated Walkway LW-02 (Related to Section 1)	0	0d	Od	11 000 22	30-May-23	11 000 22	30-May-23	0	1										F
	Advance Completion of Landscaped Elevated Walkway LW-02 to Specific Contract Completion Date (Section 1)	101	101d	0d	30-May-23	26-Sep-23	30-May-23	26-Sep-23	0	1					-					- F
CONSTRUCT	ION OF BOX CULVERT B1	364			31-Jul-20	29-Jul-21	20-Oct-20	29-Jul-21	0						•					
KTD.BC.1000	Prepare/submission of temporary EVA diversion scheme with SCL	60	60d	0d	31-Jul-20	28-Sep-20	02-Nov-20	31-Dec-20	94	2	اظ									
KTD.BC.1010	Consult/liaison/vetting/approval of temporary EVA diversion scheme with SCL	120	120d	0d	30-Aug-20	27-Dec-20	02-Dec-20	31-Mar-21	94	2	-									
BOX CULVER	T B1 (CHB1 364.584 TO CHB1 168.00)	225			20-Oct-20	29-Jul-21	13-Nov-20	29-Jul-21	0						7					
KTD.BC.1020	Installation of ELS and excavation for CHB1 364.584 to CHB1 348.00 (24m ELS, 523.8m3 exca, 2 team)	26	24d	2d	20-Oct-20	19-Nov-20	13-Nov-20	12-Dec-20	20	1										
KTD.BC.1030	Installation of ELS and excavation for CHB1 348.00 to CHB1 216.00 (12718m3, 2 teams)	78	72d	6d	02-Nov-20	03-Feb-21	25-Nov-20	02-Mar-21	20	1				,						
KTD.BC.1040	Construction of RC box culvert structure (1435m3, 4 teams)	78	74d	2d	05-Jan-21	16-Apr-21	28-Jan-21	11-May-21	20	1				· · · · · ·						
KTD.BC.1050	Backfiling from CHB1 364.584 to CHB1 216.00 (10043m3, 4 teams)	78	74d	2d	25-Mar-21	06-Jul-21	26-Apr-21	29-Jul-21	20	1										
KTD.BC.1060	Excavation for CHB1 216.00 to CHB1 168.00 by ELS/open-cut/other accepted method (4600m3, 2 teams) Construction of RC box culvert structure from CHB1 216.00 to CHB1 168.00 (370m3, 3 teams)	32 52	32d 48d	7d	01-Apr-21	13-May-21	01-Apr-21	13-May-21	0	1			L.							
KTD.BC.1070 KTD.BC.1080	Backfilling from CHB1 216.00 to CHB1 168.00 (3800m3, 4 teams)	52	400 48d	4d 4d	19-Apr-21 28-May-21	21-Jun-21 29-Jul-21	19-Apr-21 28-May-21	21-Jun-21 29-Jul-21	0	1										
	T B1 (CHB1 168.00 TO CH. 89.123)	225	-100	τu	20-Oct-20	29-Jul-21	20-0ct-20	29-Jul-21	0	1										
KTD.BC.1090	Installation of ELS and excavation for CHB1 115.392 to CHB1 168.00 (114m ELS, 3400m3 exca, 2 teams)	51	33d	6d	20-Oct-20	18-Dec-20	20-Oct-20	18-Dec-20	0	1										
KTD.BC.1095	Encounter CLP cables at CHB1 143.3 to CHB1 131.125 and removal by CLP	12	12d	0d	03-Nov-20	16-Nov-20	03-Nov-20	16-Nov-20	0	1										
KTD.BC.1100	Construction of RC box culvert structure for CHB1 115.392 to CHB1 168.00 (434m3, 2 teams)	78	78d	0d	28-Nov-20	05-Mar-21	28-Nov-20	05-Mar-21	0	1										
KTD.BC.1110	Backfilling from CHB1 168.00 to CHB1 115.392 and construct temporary diversion EVA with facilities (2374m3, 2 teams)	52	46d	6d	23-Jan-21	31-Mar-21	23-Jan-21	31-Mar-21	0	1										
KTD.BC.1120	Traffic diversion for MTRC EVA of SCL Station and SUA	0	0d	0d		31-Mar-21		31-Mar-21	0	1			7							
KTD.BC.1130	Installation of ELS and excavation for CHB1 115.392 to CHB1 89.123 (90m ELS, 1860m 3 exca, 2 teams)	29	26d	3d	01-Apr-21	10-May-21	01-Apr-21	10-May-21	0	1										
KTD.BC.1140	Construction of RC box culbert structure for CBB1 115.392 to CHB1 89.123 (236m3, 2 teams)	42	39d	3d	30-Apr-21	21-Jun-21	30-Apr-21	21-Jun-21	0	1				TE						
KTD.BC.1150	Temporary drain. diversion (inclu temporary connection works and breakthrough at upstream)	7	6d	1d	22-Jun-21	29-Jun-21	22-Jun-21	29-Jun-21	0	1				12		.				
KTD.BC.1160 KTD.BC.1170	Construct the remaining RC structure within existing box culvert and abandon the existing box culvert Permanent drain. diversion (inclu connection works at upstream)	18	18d 6d	0d 1d	30-Jun-21 22-Jul-21	21-Jul-21 29-Jul-21	30-Jun-21 22-Jul-21	21-Jul-21 29-Jul-21	0	1										
KTD.BC.1180	Backfilling from CHB1 115.392 to CHB1 89.123 (1050m3, 2 teams)	49	48d	4d	01-Jun-21	29-Jul-21	01-Jun-21	29-Jul-21	0	1						+				
	Planned Completion of Box Culvert B1 (Related to Section 8)	0	Od	0d	or our 21	29-Jul-21	or our 21	29-Jul-21	0	1					,					
	N OF EXISTING SUBWAY KS10	1129			24-Nov-20		24-Nov-20		0						+-	╡╋╋┿		_		-
	Liaison/coordinate with HyD structure/HyD lighting/EMSD and other utility and service undertakings	180	180d	0d	24-Nov-20	22-May-21	24-Nov-20	22-May-21	0	2		. ⊧ ⇔								
KTD.MS.1010	Pre-drilling works (1 no, 1 rig)	12	10d	2d	24-May-21	05-Jun-21	24-May-21	05-Jun-21	0	1	++++			۴Ľ						
KTD.MS.1020	Piling works for pre-bored H-piles (4 nos, 610dia x 75m, 1 rig)	48	42d	6d	07-Jun-21	03-Aug-21	07-Jun-21	03-Aug-21	0	1										
KTD.MS.1030	Installation of ELS for demolition of existing str. & construction of entrance at Road D1 (77m ELS, 900m3 exca, 1 teams)	39	33d	6d	04-Aug-21	17-Sep-21	04-Aug-21	17-Sep-21	0	1					-					
KTD.MS.1035	Demolition of existing subway structures (inclu. ramp and staircase)	78	64d	14d	18-Sep-21	21-Dec-21	18-Sep-21	21-Dec-21	0	1						†				
KTD.MS.1040	Construction of RC structures (inclu. lift shaft, staircase, pump house and etc.) (365m3, 1 team)	104	92d	12d	22-Dec-21	04-May-22	22-Dec-21	04-May-22	0	1										
KTD.MS.1045	Backfiling of ELS to ground level	78	64	14d	05-May-22	06-Aug-22	05-May-22	06-Aug-22	0	1						.				
KTD.MS.1050	Lift and other E&M installation, testing and commissioning	156	156d	0d	08-Aug-22	16-Feb-23	17-Feb-23	26-Aug-23		1										
KTD.MS.1060 KTD.MS.1070	Construction of roof, steelworks, other facilities and ABWF works Planned Completion of modification of existing Subway KS10 (Related to Section 3)	312 0	300d 0d	12d 0d	08-Aug-22	26-Aug-23	08-Aug-22	26-Aug-23	0	1										
KTD.MS.1070	Advance Completion of modification of existing Subway KS10 to Specific Contract Completion Date (Section 3)	100	178d	0d	28-Aug-23	26-Aug-23 27-Dec-23	28-Aug-23	26-Aug-23 27-Dec-23	0	1										
	ION OF DISTRICT COOLING SYSTEM WORKS (SUBJECTED TO EXCISION)	914	1700	Uu	27-Mar-21	26-Sep-23	20-Aug-23	26-Sep-23		1			- I +			╪┿┿		_		-
KTD.DCS.1000	Liaison/coordinate with utility and service undertakings on connection works of DCS works	180	180d	0d	27-Mar-21	22-Sep-21	22-Nov-21	20-May-22		2			L_							
	Installation of ELS and excavation and construction of DCS pipes from CH80 to CH145 (2 teams)	91	79d	12d	23-Sep-21	12-Jan-22	24-Apr-23	11-Aug-23		1					•					
KTD.DCS.1020	Backfilling for CH80 to CH145 (780m3, 2 teams)	39	33d	6d	13-Jan-22	02-Mar-22	12-Aug-23	26-Sep-23		1						4				
KTD.DCS.1030	Installation of ELS and excavation and construction of DCS pipes from CH170 to CH334 (2 teams)	208	194d	14d	23-Sep-21	09-Jun-22	21-May-22	01-Feb-23	192	1					╘╾╪══	++++	—			
KTD.DCS.1040	Backfilling for CH170 to CH334 (1900m3, 2 teams)	78	72d	6d	10-Jun-22	09-Sep-22	04-Mar-23	09-Jun-23	218	1							-			
KTD.DCS.1050	Installation of ELS and excavation of temporary pits for construction of DCS works from CH145 to CH170 (1 team)	78	66d	12d	10-Jun-22	09-Sep-22	02-Feb-23	09-May-23	192	1										
KTD.DCS.1060	Construction of chilled water pipes from CH145 to CH170 by trenchless method (inclu DAV and washout pit, 1 team)	78	64d	14d	13-Sep-22	14-Dec-22	10-May-23	11-Aug-23		1										
KTD.DCS.1070	Backfilling for temporary pits (900m3, 2 teams)	39	33d	6d	15-Dec-22	04-Feb-23	12-Aug-23	26-Sep-23	192	1									-	
KTD.DCS.1080	Installation of ELS and excavation and construction of DCS works from CH0 to CH80 (2 teams)	52	40d	12d	10-Jun-23	11-Aug-23	10-Jun-23	11-Aug-23	0	1										
KTD.DCS.1090	T&C of the installed DCS pipes before connection to existing DCS system	26	26d	0d	12-Aug-23	11-Sep-23	28-Aug-23	26-Sep-23	13	1	 					 				
	Backfilling for CH0 to CH80 (960m3, 2 teams)	39	33d	6d	12-Aug-23		12-Aug-23	26-Sep-23	0	1										
	Planned Completion of DCS works within Parts 1 and 1A (Related to Section 9)	0	0d	Od	21 1.1 00	26-Sep-23	21 1.1 20	26-Sep-23	0	1										
	I OF EXISTING SUBWAYS KS9 AND KS32	1153	205.1	6.2	31-Jul-20	26-Sep-23	31-Jul-20	26-Sep-23		0										
KTD.RS.1000 KTD.RS.1010	Liasion with UAP project and relevant departments for possession approval/consent Construction of shelter for subways KS9 and KS32	365 156	365d 130d	0d 26d	31-Jul-20 31-Jul-21	30-Jul-21 08-Feb-22	31-Jul-20 31-Jul-21	30-Jul-21 08-Feb-22	0	2						╧╧╧╤				
	Construction of steelworks, other facilities, E&M installation and ABWF works for KS9 and KS32								_	1										
KTD.RS.1020	CONSULCTION OF STREAMORKS, OTHER RECEIPTERS, EQUIVERSING AND ABAME MOLKS IN KRYS AND KRYS	156	1420	1240	03-Nov-21	17-May-22	03-Nov-21	17-May-22	0	I										

▼ Milestone
▼ Critical Milestone

Critical Work

Planned W...

Summary



ED/2018/05 Kai Tak Development - Stage 5B Infrastructure Works at the Former North Apron Area WORKS PROGRAMME (Page 4 of 5)

2023 JJAS		DJ	FM	2 A M ,	024 J J A	S	O N	D	J	F	M	A	M	20: J	25 JAS	OND	JFN	2026 A M	JJ
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	1	0-C)ct-2	0	Revi										C		G		
	1	8-N	lov-2	20	Revi	sio	on 3							L	С		G	:	

Activity ID	Activity Name	Dur (d)	Ori. Dur (d)	TRA (d)	Early Start	Early Finish	Late Start	Late Finish	Total Float	Calendar				021 . A S C		2022 M A M J J	ASON	DJFMAM	2
KTD.RS.1030	Planned Completion of renovation of existing Subways KS9 and KS32 (Related to Section 1)	0	0d	0d		17-May-22		17-May-22		1									<u></u>
KTD.RS.1040	Advance Completion of renovation of existing Subways KS9 and KS32 to Specific Contract Completion Date (Section 1)	406	406d	Od	18-May-22	26-Sep-23	18-May-22			1								┿━━┿┛	÷
DIVERSION	OF EXISTING RISING MAIN AND DEMOLITION OF EXISTING STRUCTURES AT SITE 2C2 & 2C3	458			16-Sep-20	17-Dec-21	17-Sep-20	17-Dec-21											
KTD.RM.1000	Liasion with relevant departments for removal of abandoned motorcycles under existing structures at Site 2C2 and 2C3	60	60d	0d	16-Sep-20	14-Nov-20	17-Sep-20	15-Nov-20		2	-			+	-				ŕ٢
KTD.RM.1000	Removal of abandoned motorcycles and clearance for demolition works	14	14d	2d	16-Nov-20	01-Dec-20	16-Nov-20	01-Dec-20		1	Ļ								
KTD.RM.1005	Demolition of existing structures at Site 2C2 and 2C3	78	66d	12d	02-Dec-20	09-Mar-21	02-Dec-20	09-Mar-21	0	1									
KTD.RM.1010	Installation of ELS and excavate for construction of twin rising main from CH0 to CH184 (400m ELS, 4059m3 exca, 2 teams)	65	53d	12d	10-Mar-21	03-Jun-21	10-Mar-21	03-Jun-21	0	1		╈	- <u> </u>	1					d-
KTD.RM.1020	Construction of twin rising main from CH0 to CH184 and connect to existing sewage rising main	104	98d	6d	04-Jun-21	07-Oct-21	04-Jun-21	07-Oct-21	0	1									1
KTD.RM.1030	Backfilling works and abandon the existing sewage rising main	52	46d	6d	08-Oct-21	08-Dec-21	08-Oct-21	08-Dec-21	0	1									
KTD.RM.1040	Planned Completion of diversion and demolition of existing structures at Site 2C2 and 2C3 (Related to Section 5)	0	Od	0d	00 00021	08-Dec-21	00 00(2)	08-Dec-21	0	1				1	F				d l
KTD.RM.1050	Advance Completion of diversion and demolition works to Specific Contract Completion Date (Section 5)	8	8d	0d	09-Dec-21	17-Dec-21	09-Dec-21	17-Dec-21	0	1									
	TION OF ROAD WORKS	1720			31-Jul-20	15-Apr-25	12-Sep-20	30-Jun-25	76		-	-	-			-	_	+	÷
	TION OF SLIP ROAD S14	1245			31-Jul-20	27-Dec-23	14-Oct-20	27-Dec-23	0									<u></u>	-
KTD.RW.0000		180	180d	0d	31-Jul-20	26-Jan-21	14-Oct-20	11-Apr-21	75	2									
KTD.RW.1000	Expose and install protect/support system for existing underground utilities and services (incl 132kV and 400kV cables)	100	98d	6d	21-Oct-20	26-Feb-21	04-Jan-21	17-May-21	60	1	-								
KTD.RW.1000	Pre-driling works for all pile caps PC1 to PC7 (9 nos, 1 rig)	40	30d	10d	27-Feb-21	22-Apr-21	18-May-21	06-Jul-21	60	1	····	: 🗲		<u>†</u>				-+	đ
KTD.RW.1010	Piling works of pre-bored H-piles (14 nos, 610dia x 70m, 1 rig)	91	85d	6d	23-Apr-21	11-Aug-21	07-Jul-21	23-Oct-21	60	1			-						
KTD.RW.1020	Installation of ELS and excavation and construction for pile cap PC1 (60m3 exca, 30m3 conc, 1 team)	26	24d	2d	12-Aug-21	10-Sep-21	25-Oct-21	23-Nov-21	60	1				F					
KTD.RW.1040	Construction of temporary supporting system for existing bridge K73	39	34d	5d	11-Sep-21	29-Oct-21	24-Nov-21	11-Jan-22	60	1		· · · · · · · · · · · · · · · · · · ·							ri-
KTD.RW.1050	Demolition of existing bearing wall	26	24d	2d	30-Oct-21	29-Nov-21	12-Jan-22	14-Feb-22		1									
KTD.RW.1060	Installation of ELS and excavation and construction for pile cap PC2 (60m3 exca, 30m3 conc, 1 team)	26	24d	2d	30-Nov-21	31-Dec-21	15-Feb-22	16-Mar-22		1					F				
KTD.RW.1070	Construction of remaining foundation and pier structures (incl. columns, portal beams and etc.) (169m3, 1 team)	52	48d	4d	03-Jan-22	07-Mar-22	17-Mar-22	23-May-22		1		-							
KTD.RW.1080	Construction of cantilever slab extended from ext. bridge K73 (150m3, 1 team)	39	34d	5d	08-Mar-22	26-Apr-22	24-May-22	09-Jul-22	60	1									
KTD.RW.1090	Backfilling for pile caps (PC1 and PC2)	26	24d	2d	27-Apr-22	28-May-22	11-Jul-22	09-Aug-22		1									
KTD.RW.1100	Installation of ELS and excavation for Retaining Wall S14 (Bay5-12, 3600m3 exca, 2 team)	90	78d	12d	30-May-22	15-Sep-22	10-Aug-22	26-Nov-22		1		++							dт
KTD.RW.1110	Construction of Retaining Wall S14 (Bay5-12, 800m3, 2 teams)	184	172d	12d	16-Sep-22	03-May-23	28-Nov-22	15-Jul-23	60	1									
KTD.RW.1120	Backfiling for Retaining Wall S14 (Bay8-12, 1100m3, 2 teams)	90	78d	12d	04-May-23	19-Aug-23	17-Jul-23	01-Nov-23		1									ė.
KTD.RW.1130	Piling works for bored piles (20 nos, 1200dia x 70m, 2 rigs)	130	116d	14d	10-Nov-22	21-Apr-23	10-Nov-22	21-Apr-23	0	1		1							d-
KTD.RW.1140	Installation of ELS and excavation and construction for pile caps (P3-P7,1110m3 exca, 800m3 conc, 2 teams)	52	48d	4d	22-Apr-23	24-Jun-23	22-Apr-23	24-Jun-23	0	1									ė,
KTD.RW.1150	Construction of Retaining Wall S14 (Bay1-4, 460m3, 2 teams)	39	21d	2d	26-Jun-23	10-Aug-23	26-Jun-23	10-Aug-23		1									F
KTD.RW.1160	Construction of bridge S14 decking structures (320m3, 1 teams)	32	26d	6d	11-Aug-23	16-Sep-23	11-Aug-23	16-Sep-23		1		1		1	-				i†
KTD.RW.1170	Prestressing works and bearing installation works	26	24d	2d	18-Sep-23	19-Oct-23	29-Sep-23	01-Nov-23	10	1									
KTD.RW.1180	Backfilling for Retaining Wall S14 (Bay 1-7, 1800m3, 2 teams)	36	32d	4d	18-Sep-23	01-Nov-23	18-Sep-23	01-Nov-23	0	1									
KTD.RW.1190	Construction of road pavement, road marking, street and other facilities	46	39d	7d	02-Nov-23	27-Dec-23	02-Nov-23	27-Dec-23	0	1		1		1					i T
KTD.RW.1200	Planned Completion of Slip Road S14 (Related to Section 3)	0	0d	0d		27-Dec-23		27-Dec-23	0	1									
CONSTRUC	TION OF ROADS D1, L9, L16, PEDESTRIAN STREETS AND OPEN SPACES	1688			01-Sep-20	15-Apr-25	12-Sep-20	30-Jun-25	76		-							+	÷
KTD.RW.1220	Construct roadwork, UUs/services & landscape softworks within Part 1 (incl Road L9 and part of Road L16)	563	542d	21d	30-Jul-21	26-Jun-23	02-Nov-21	26-Sep-23	78	1				-					Ë
KTD.RW.1230	Construct roadwork, UUs/services & landscape softworks within Part 1A (incl Sa Po Road, pedestrian street and Road D1)	153	132d	21d	10-Jun-23	11-Dec-23	26-Jun-23	27-Dec-23	12	1									+
KTD.RW.1240	Construct underground utilities/services within Parts 1B, 6A and 7 and remaining works of all Parts	1321	1300d	21d	20-Oct-20	15-Apr-25	02-Jan-21	30-Jun-25	60	1	-					-		÷	ŧ
KTD.RW.1245	Liasion/coordinate with CLP for new 132kV and 11kV cable laying at Road L16, Part 3 and Crowd Dispersal Route	122	122d	0d	01-Sep-20	31-Dec-20	12-Sep-20	11-Jan-21	11	2	-								T
KTD.RW.1250	Construct roadwork and UUs/services within Parts 2 and 10 (incl Crowd Dispersal Route)	270	249d	21d	02-Jan-21	02-Dec-21	05-May-21	29-Mar-22	94	1					÷				
KTD.RW.1260	Construct underground utilities/services within Part 3	275	254d	21d	02-Jan-21	08-Dec-21	12-Jan-21	17-Dec-21	8	1		-	+ + +		i				
KTD.RW.1270	Construct roadwork and landscape softworks within Part 3 (incl pedestrian streets)	342	321d	21d	09-Dec-21	08-Feb-23	29-Dec-22	24-Feb-24	310	1							:	#	T
KTD.RW.1280	Construct underground utilities/services within Part 4	156	135d	21d	23-Nov-20	09-Jun-21	12-Dec-20	30-Jun-21	17	1	ن ه ا		֠						
KTD.RW.1290	Construct roadwork and landscape softworks within Part 4 (incl pedestrian street)	156	135d	21d	10-Jun-21	14-Dec-21	17-Aug-23	24-Feb-24	647	1			-						
KTD.RW.1300	Construct roadwork, underground utilities/services within Part 5	312	291d	21d	10-Nov-22	28-Nov-23	07-Dec-22	27-Dec-23	23	1		1					-		Ŧ
KTD.RW.1310	Liasion with developer of the sites 2A4, 2A5(B) and 2A10 and construction of drainage and sewage works within Part 6	156	135d	21d	23-Dec-23	08-Jul-24	15-Mar-24	23-Sep-24	65	1									
KTD.RW.1320	Construct roadwork, remaining UUs/services and landscape softworks within Part 6 (incl remaining Road L16)	222	201d	21d	09-Jul-24	03-Apr-25	24-Sep-24	30-Jun-25	65	1									
PROJECT ES	STABLISHMENT WORKS	1571			15-Dec-21	03-Apr-26	27-Sep-23	30-Jun-26	88	2					-				Ť
KTD.EW.1000	Establishment works for all landscape softworks (except Parts 3, 4 and 6)	365	365d	0d	12-Dec-23	10-Dec-24	28-Dec-23	26-Dec-24	16	2									
KTD.EW.1010	Establishment works for landscape softworks within Part 3 (Subj to excision within 416 days)	365	365d	0d	09-Feb-23	08-Feb-24	26-Feb-24	24-Feb-25	382	2									ŧ
KTD.EW.1020	Establishment works for landscape softworks within Part 4 (Subj to excision within 244 days)	365	365d	0d	15-Dec-21	14-Dec-22	26-Feb-24	24-Feb-25	803	2					-			-	T
KTD.EW.1030	Establishment works for landscape softworks within Part 6	365	365d	0d	04-Apr-25	03-Apr-26	01-Jul-25	30-Jun-26	88	2									
KTD.EW.1040	Establishment works for landscape softworks under Section 1	365	365d	0d	27-Jun-23	25-Jun-24	27-Sep-23	25-Sep-24	92	2									4
KTD.EW.1050	Planned Contract Completion Date	0	0d	0d		03-Apr-26		30-Jun-26	88	2									
F																			

▼ Milestone ∇

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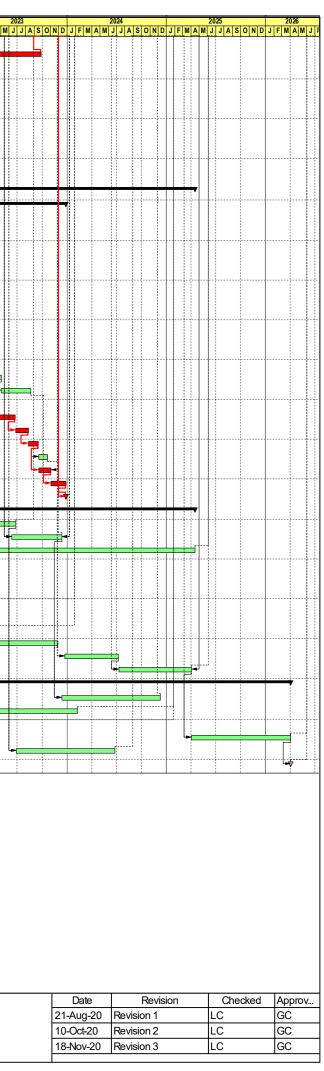
Critical Milestone

Critical Work

Planned W...

Summary





Appendix C – Environmental monitoring schedules

Contract No. EDO 2/2020 Environmental Monitoring at Kai Tak Development – Stage 5B infrastructure works at the former north apron area Environmental Monitoring and Weekly Site Inspection Schedule for April 2022

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	5	6	7 Weekly Site Inspection	8	9 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3
10	11	12	13	14 Weekly Site Inspection 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	15	16
17	18	19	20 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	21 Weekly Site Inspection	22	23
24	25 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	26	27	28 Weekly Site Inspection + SSMC meeting	29	30 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3

April 2022

Air Quality Monitoring Station

AM2(A) Ng Wah Catholic Secondary School AM3 - Sky Tower

Noise Quality Monitoring Station M4(A) - Le Billionnaire M5(A) - Prince Ritz

Contract No. EDO 2/2020 Environmental Monitoring at Kai Tak Development – Stage 5B infrastructure works at the former north apron area Tentative Environmental Monitoring and Weekly Site Inspection Schedule for May 2022

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5 Weekly Site Inspection	6 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	7
8	9	10	11	12 Weekly Site Inspection 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	13	14
15	16	17	18 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	19 Weekly Site Inspection	20	21
22	23	24 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	25	26 Weekly Site Inspection + SSMC meeting	27	28
29	30 24-hr TSP and 1-hrX3 TSP: AM2(A), AM3 30-min Noise: M4(A), M5(A)	31				

May 2022

Air Quality Monitoring Station

AM2(A) Ng Wah Catholic Secondary School AM3 - Sky Tower **Noise Quality Monitoring Station** M4(A) - Le Billionnaire M5(A) - Prince Ritz

Appendix D – Photographic records

Impact Air Quality Monitoring



Measurement setup at AM2(A)

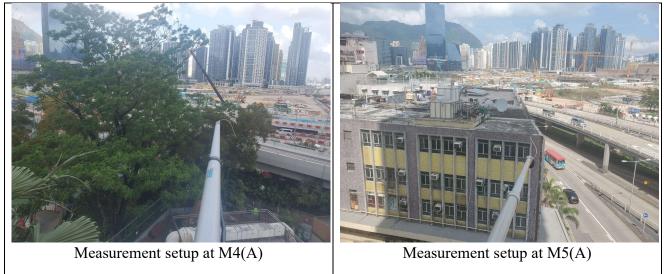


Measurement setup at AM3

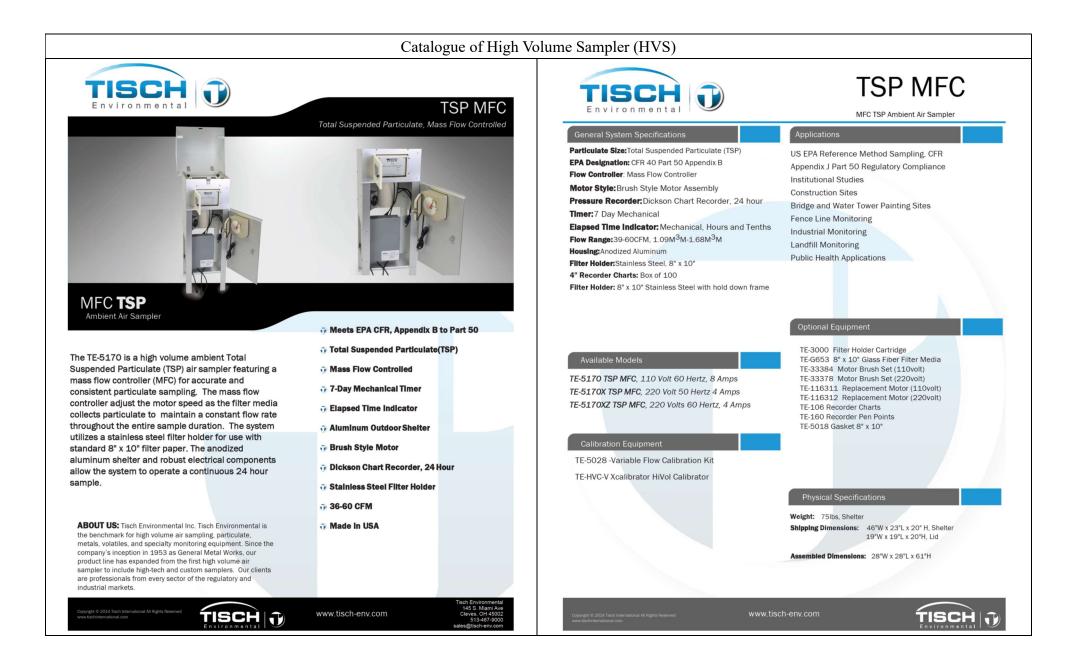


Weather Station at the rooftop of Ng Wah Catholic Secondary School

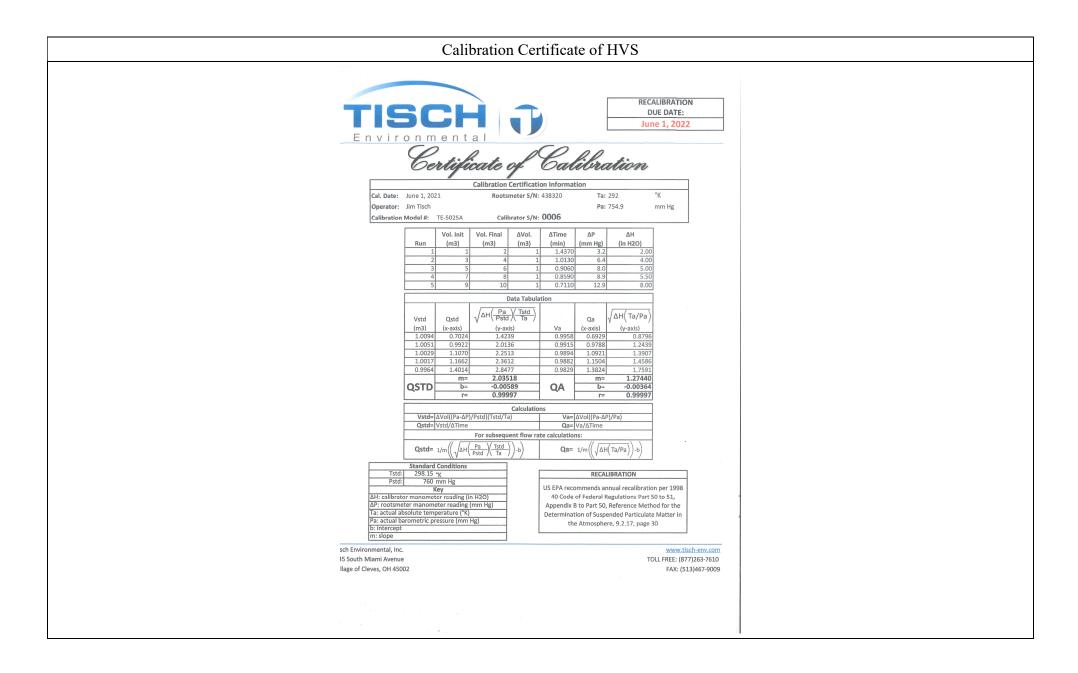
Impact Noise Monitoring



Appendix E – Calibration certificates, catalogue of air quality monitoring equipment

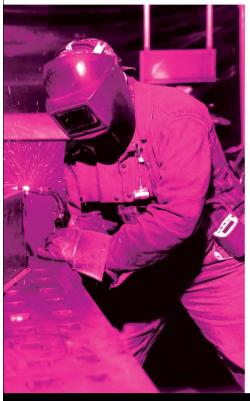


	-	alibration Curve Plot (Dickson recorder)				Air Sample	r Calibration Curve Plot (Dickson recorder)	-	ion
Calibration curve ref. N		2022030801 Date of c	alibration : 0	08/03/2022	Calibration curv	e ref. No. : ATSPC-	01-2022030804 Date of o	calibration :	08/03/2022
Location :	Sky Tower	Sampler		TE-5170X	Location :	Ng Wah Catholic Seco	ndary School Sampler		TE-5170X
Calibration Data		Serial Nu		4687	Calibration Dat	<u>a</u>	Serial N	umber :	4360
· · · _	essure, $Pa = -762.1$ 2.03518		temperature, Ta = rcept, b =0.00	<u>293.65</u> (deg K) 5890	Ambient barom Qstd Slope, m =	• •		t temperature, Ta = ercept, b =0.00	(deg K) 05890
Calibration Curve	H ₂ O	Qstd	I	IC	Calibration Cur				1
Plate No.	(in)	(m ³ /min)	(chart)	(corrected)	Plate No.	H ₂ O (in)	Qstd (m^3/min)	I (chart)	IC (corrected)
18	7.40	1.351	49.0	49.43	18	7.70	1.378	47.0	47.41
13	6.20	1.237	43.0	43.38	13	6.50	1.267	43.0	43.38
10	4.70	1.077	38.0	38.33	10	5.10	1.122	38.0	38.33
7	3.30	0.903	32.0	32.28	7	3.70	0.956	33.0	33.29
5	2.30	0.755	28.0	28.25	5	2.50	0.787	27.0	27.24
Subsequent calculation				· · · · · · · · · · · · · · · · · · ·	Subseauent cal	ulation of sampler flow			
Method Dickson recorder		bration equation rt((Pav / 760)(298 / Tav)))	Slope, m	Intercept, b Corr. coeff., r 1.2425 0.9947	Method		Calibration equation	Slope, m	Intercept, b Corr. coeff
	75.00				Dickson records	75.00	(Sqrt ((Pav / 760) (298 / Tav))	33.737	0.7523 0.9996
	75.00 65.00 55.00 45.00 25.00 15.00 0.6 0.8	L0 L2 L4 I Qstd / IC Calibration Cu				75.00 65.00 55.00 35.00 35.00 25.00 15.00		Qstd(m3/min) 1.6 1.8 2.0	0.7323 0.7990
Calibration curve requi	65.00 9 55.00 9 45.00 9 35.00 9 15.00 0.6	Qstd / IC Calibration Cu	.6 1.8 2.0 rve	SP range (1.1 - 1.7 m3 / min).		75.00 65.00 55.00 45.00 25.00 15.00 0.6		Qstd(m3min) 1.6 1.8 2.0 urve	
Remark : Qst	(0, 0, 0) = 1/m [S]	Qstd / IC Calibration Cu		3P range (1.1 - 1.7 m3 / min).		$\begin{bmatrix} 75.00 & 0 \\ 65.00 & 0 \\ 55.00 & 0 \\ 45.00 & 0 \\ 55$	0.8 1.0 1.2 1.4 Qetd / IC Calibration Co	Qstd(m3/min) 1.6 1.8 2.0 urve numbers are in the T 8 / Ta)) - b].].	
Remark : Qst	(1000 GeV) = 1/3	Qstd / IC Calibration Cu 990; (B). At least 3 Qstd n Sqrt (H ₂ O (Pa / 760) (298 ((Pa / 760) (298 / Ta))]		SP range (1.1 - 1.7 m3 / min).	Calibration curv	$\begin{bmatrix} 75.00 & 0 & 0 \\ 65.00 & 0 & 0 \\ 55.00 & 0 & 0 \\ 45.00 & 0 & 0 \\ 35.00 & 0 & 0 \\ 15.00 & 0.6 \\ \end{bmatrix}$ e requirements : (A). r > Qstd (m ³ /min) = 1/r IC (corrected) = I [S	0.8 1.0 1.2 1.4 Qstd / IC Calibration Cu > 0.990 ; (B). At least 3 Qstd 1 n [Sqrt (H ₂ O (Pa / 760) (298 qqt ((Pa / 760) (298 / Ta))]	Qstd(m3/min) 1.6 1.8 2.0 urve numbers are in the T 8 / Ta)) - b].]. 760) (298 / Ta)).	SP range (1.1 - 1.7 m3 / m
Remark : Qst IC FL	(1000 GeV) = 1/3	Qstd / IC Calibration Cu 990; (B). At least 3 Qstd n Sqrt (H ₂ O (Pa / 760) (298 ((Pa / 760) (298 / Ta))] rt (FLOW (mano) (Pa / 7	.6 1.8 2.0 rve umbers are in the TS .7 Ta)) - b].	10	Calibration curv Remark :	$\begin{bmatrix} 75.00 & 0 \\ 65.00 & 0 \\ 55.00 & 0 \\ 45.00 & 0 \\ 55$	0.8 1.0 1.2 1.4 Qstd / IC Calibration Cu > 0.990; (B). At least 3 Qstd 1 n [Sqrt (H ₂ O (Pa / 760) (293 Qqtt ((Pa / 760) (298 / Ta))] Sqrt (FLOW (mano) (Pa / 7	Qstd(m3/min) 1.6 1.8 2.0 urve numbers are in the T 8 / Ta)) - b].]. 760) (298 / Ta)). 1 by :	



Catalogue of Dust Meter (TSI Sidepak AM510)

The SidePak AMS10 monitor's easy-to-read display shows your data as both real-time aerosol mass-concentration and 8-hour time-weighted average (TWA). With its convenient data logging and long battery life, the AM510 is also ideal for extended sampling. The easy-to-use TrakPro Data Analysis Software lets you create effective graphs and reports.



User Friendly

+ Small, lightweight and quiet to maximize worker acceptance + Rugged design with secure belt clip + Easy-to-understand user interface with only four keys + Lockable keypad prevents tampering while sampling + User-adjustable sample flow rate + Define, label and store multiple calibration constants + Easy-to-read LCD display + Convenient, threaded tripod socket accommodates area sampling

Advanced Features

Smart Battery Management System provides precise run time information, maximizes battery capacity and speeds charging + Integrated pump allows use of size-selective aerosol inlet conditioners + Built-in impactors let you choose "none," 1.0, 2.5 or 10-micron cut off + 10-mm Dorr-Oliver cyclone for respirable sampling + Display shows real-time concentrations (mg/m³) and "on-the-fly" TWA as you data log + Display statistics: max, min and average readings, elapsed time and 8-hour TWA

Ouick and Easy Reports

+ Convenient preprogramming for occupational exposure sampling + Data log for long periods and store multiple tests + Analyze data, print graphs and create reports with TrakPro Data Analysis Software + USB port lets you conveniently connect to your computer

Power to Spare

+ Long-lasting NiMH rechargeable battery packs eliminate "memory" issues + Choice of rechargeable NiMH smart battery packs or AA-cell pack

Model AM510 SidePak Personal Aerosol Monitor

Sensitivity Sensor Type
Aerosol Concentration Range

0.001 to 20 mg/m³ (calibrated to respirable fraction of ISO 12103-1, A1 test dust) Particle Size Range 0.1 to 10 micrometer (um) Minimum Resolution 0.001 mg/m³ ±0.001 mg/m³ over 24 hours using 10-second time-constant Temperature Coefficient Approximately +0.0005 mg/m³ per °C (for variations from temperature at which instrument was last zeroed)

90° light scattering,

670 nm laser diode

Flow Rate Range

Zero stability

User-adjustable, 0.7 to 1.8 liters/min (L/min)

Temperature Range Operating Range 32 to 120°F (0 to 50°C) Storage Range -4 to 140°F (-20 to 60°C)

Operational Humidity 0 to 95% RH, non-condensing

Time Constant (LCD display) Jser-adjustable, 1 to 60 seconds Range

Data Logging Approx. 31.000 Data Points Logging Interval User-adjustable, 1 second to 1 hour

User-Select Calibration Factors

Factory Setting 1.0 (non-adjustable) User-defined Settings 3, with user-defined labels 0.1 to 10.0, user-adjustable

Physical External Dimensions

Range

4.2 x 3.7 x 2.8 in. (106 x 92 x 70 mm) with 801723, 801724, 801729 or 801743 battery 5.1 x 3.7 x 2.8 in. (130 x 92 x 70 mm) with 801708, 801722, 801728, 801735, or 801736 battery 16 oz (0.46 kg) with 801723, 801724, Weight 801729 or 801743 battery 19 oz (0.54 kg) with 801708, 01722, 801728, 801735, or 801736 battery Display Tripod Socket 2 line x 12 character LCD 1/4-20 female thread

Power Supply/Charger (P/N 2613210) Input Voltage Range 100 to 240 VAC. 50 to 60 Hz

Input Voltage Range Output Voltage 9 VDC @10 A

Maintenance Factory Clean/Calibrate Recommended annually User Zero Calibration Before each use User Flow Calibration As needed

Communications Interface USB 1.1 Type Connector, Instrument

USB Mini-B (socket)

Minimum Computer Requirements for TrakPro™ Data Analysis Software

Universal Serial Bus (USB) **Communications** Port v 1.1 or higher Microsoft Windows® XP, or 7 Operating System (32-bit or 64-bit) operating systems

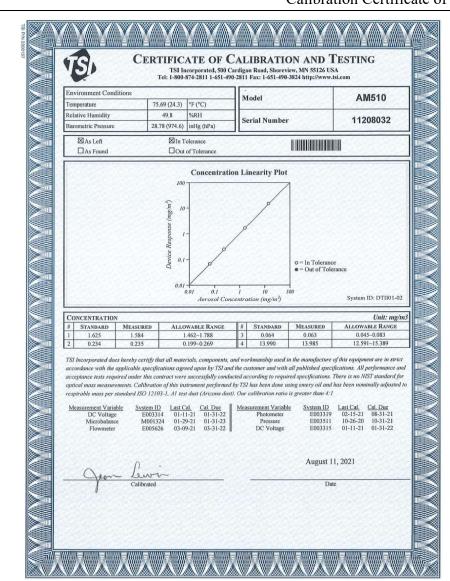
Battery Performance

Battery Options	Charge Time (hrs)*	Intrinsic Safety Rating	Run Time (hrs @ 1.7 L/min)
1600 mAH NiMH Pack, 4.8 V (P/N 801723)	3.0	No	7.1
1650 mAH NiMH Pack, 4.8V (P/N 801724, 801729 or 801743)	3.5	CSA**	7.5
2700 mAH NiMH Pack, 4.8 V (P/N 801722 or 801728)	5.5	No	12.0
2700 mAH NiMH Pack, 4.8 V (P/N 801735)	5.5	No	12.0
6-Cell AA-size Alkaline Pack*** (P/N 801708 or 801736 with six user-supplied AA cells)	N/A	No	22.5

*Of a fully depleted battery **All dust plugs and dust gaskets must be installed. ***Using Energizer AA-size, E91 alkaline batteries.

Battery Level Indicator

The Smart Battery Management System™ technology utilizes a built-in "gauge" in the SidePak™ battery packs. The gauge monitors battery capacity and calculates run time information by dividing capacity of the battery (mAH) by the instantaneous current consumed by the instrument (mA). This calculation is correct for current operating conditions and can change due to current (mA) consumption or changes in battery capacity.



Calibration Certificate of Dust Meter (TSI Sidepak AM510)

Personal Aerosol Monitor Performance check with High Volume Sampler

Preformance Check ref. No	AS0210818-4	Report Issue Date	18/08/2021	
Date of performance check	16/08/2021			

Objective:

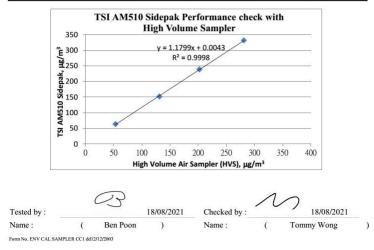
A dust meter and a Total Suspended Particulate High Volume Air Sampler (HVS) were placed together to measure the Total Suspended Particulate (TSP) concentrations simultaneously to check the performance.

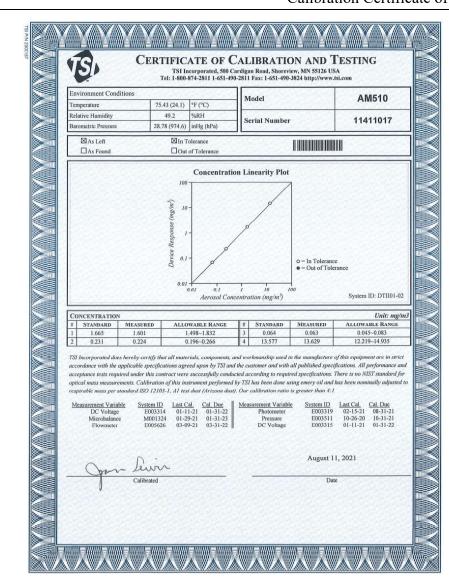
Equipment Used:

Equipment	Manufacturer and Model	Serial Number
Personal Aerosol Monitor	TSI AM510 Sidepak	11208032
Total Suspended Particulate High Volume Air Sampler	GS2310	10346

Resustt:

Equipment	Measurement Result, µg/m ³								
TSI AM510 Sidepak	64	152	239	332					
High Volume Air Sampler (HVS)	53	131	202	281					





Calibration Certificate of Dust Meter (TSI Sidepak AM510)

Personal Aerosol Monitor Performance check with High Volume Sampler

 Preformance Check ref. Nc
 AS0210818-1
 Report Issue Date
 18/08/2021

 Date of performance check
 16/08/2021
 16/08/2021
 16/08/2021
 16/08/2021

Objective:

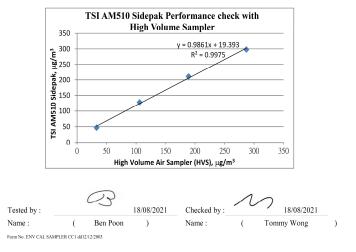
A dust meter and a Total Suspended Particulate High Volume Air Sampler (HVS) were placed together to measure the Total Suspended Particulate (TSP) concentrations simultaneously to check the performance.

Equipment Used:

Equipment	Manufacturer and Model	Serial Number
Personal Aerosol Monitor	TSI AM510 Sidepak	11411017
Total Suspended Particulate High Volume Air Sampler	G82310	10346

<u>Resuslt:</u>

Equipment		Measurement	Result, µg/m ³	
TSI AM510 Sidepak	47	128	211	298
High Volume Air Sampler (HVS)	33	106	189	287



Catalogue of Weather Station 7 Cabled Vantage Pro2™ 6152C Vantage Pro2 & Vantage Pro2 Plus[™] Stations 6162C Ultra Violet (UV) Radiation Index (requires UV sensor) Resolution and Units 0.1 Index Vantage Pro2[™] Range 0 to 16 Index The Vantage Pro2[™] (# 6152C) and Vantage Pro2[™] Plus (# 6162C) cabled weather stations include two components: High)) the Integrated Sensor Suite (ISS) and the console. The ISS contains the sensor interface module (SIM), rain collector, an anemometer, and a passive radiation shield. The Vantage Pro2 console provides the user interface, data display, and calculations. The Vantage Pro2 Plus weather station includes two additional sensors that are optional on the Current Graph Data..... Instant Reading and Hourly Average; Daily, Monthly High Vantage Pro2 and purchased separately: the UV Sensor and the Solar Radiation Sensor. The console and ISS are powered by an AC-power adapter connected to the console. Batteries can be installed in the console to provide a backup power supply. Use WeatherLink* to let your weather station interface with a computer, log data, and upload Alarm High Threshold from Instant Calculation weather information to the Internet. The 6152C and 6162C models rely on passive shielding to reduce solar-radiation induced temperature errors in the outside temperature sensor readings. Wind Wind Chill (Calculated) Integrated Sensor Suite (ISS) the nearest 1°C console and ISS Source...... United States National Weather Service (NWS)/NOAA Equation Used Osczevski (1995) (adopted by US NWS in 2001) Cable Type 4-conductor, 26 AWG Variables Used Avg. Wind Speed Current Display Data Instant Calculation Maximum displayable wind decreases as the length of cable increases, at 140 (42 m) of cable, the maximum wind speed displayed is 135 mph (60 Note Current Graph Data Instant Calculation; Hourly, Daily and Monthly Low m/s); at 240' (73 m), the maximum wind speed displayed is 100 mph (34 m/s) Historical Graph Data. Hourly, Daily and Monthly Lows Alarm. Low Threshold from Instant Calculation Wind Direction Sensor Wind vane with potentiometer Wind Direction (214 cm²) collection area Temperature Sensor Type..... PN Junction Silicon Diode Relative Humidity Sensor Type Film capacitor element Accuracy ±3° Housing Material UV-resistant ABS, polypropylene Update Interval 2.5 to 3 seconds Sensor Inputs RF Filtering RC low-pass filter on each signal line Monthly Dominant ISS Dimensions(not including anemometer or bird spikes): Monthly Dominants Vantage Pro2 with Standard Rad Shield 14.0" x 9.4" x 14.5" (356 mm x 239 mm x 368 mm) Wind Speed Resolution and Units 1 mph, 1 km/h, 0.4 m/s, or 1 knot (user-selectable) Measured in mph; Vantage Pro2 with Fan-Asprated Rad Shield..... 20.8" x 9.4" x 16.0" (528 mm x 239 mm x 406 mm) other units are converted from mph and rounded to nearest 1 km/hr, 0.1 Vantage Pro2 Plus with Standard Rad Shield 14.3" x 9.7" x 14.5" (363 mm x 246 mm x 368 mm) m/s or 1 knot Vantage Pro2 Plus with Fan-Aspirated Rad Shield 21,1" x 9,7" x 16.0" (536 mm x 246 mm x 406 mm) Update Interval Instant Reading: 2.5 to 3 seconds, 10-minute Average: 1 minute length of cable from anemometer to ISS increases.) Current Display Data Instant Current Graph Data Instant Reading; 10-minute and Hourly Average; Hourly High; Daily, Davis Instruments 3465 Diablo Ave., Hayward, CA 94545-2778 USA (510) 732-9229 - FAX (510) 670-0589 - sales@davisinstruments.com - www.davisinstruments.com Monthly and Yearly High with Direction of High Historical Graph Data...... 10-min. and Hourly Averages; Hourly Highs; Daily, Monthly and Yearly DS6152C, 6162C Rev. W 12/7/18 Highs with Direction of Highs

AAST-WS-04, Cal: 15 Feb 2022	
Cal Lab Limited 校正實驗室有限公司	Cal Lab Limited 校正實驗室有限公司
Room 2103, Technology Plaza, 29-35 Sha Tsui Road, Tsuen Wan, NT, Hong Kong	Room 2103, Technology Plaza, 29-35 Sha Tsui Road, Tsuen Wan, NT, Hong Kong
CALIBRATION Tel: +852 25680106 Email: info@callab.com.hk	CALIBRATION Tel: +852 25680106 Email: info@callab.com.hk
Fax: +852 30116194 Website: www.callab.com.hk	Fax: +852 30116194 Website: www.callab.com.hk
Calibration Certificate No.: CC0012202	Result of Calibration
Customer Information Customer: Castco Testing Centre Limited	Temperature
Address: 33, On Kui Street, Fanling, N.T.	Reference reading (°C) Reading (°C) Error (°C) Uncertainty (°C) 15.0 15 0.0 0.3
	20.0 20 0.0 0.3
Equipment Identification Equipment Description Manufacturer Model No. Serial No. Assigned equipment No.:	25.0 25 0.0 0.3
Weather Station Davis Vantage PRO 2 6152CUK BD181101023 N/A	30.0 30 0.0 0.3
Certificate Information	Relative Humidity
Certificate Information Date of Receipt: 10 February 2022 Calibration Condition: 23.6°C, 53%RH, 1008hPa	Reference reading (%RH) Reading (%RH) Error (%RH) Uncertainty (%RH)
Date of Calibration: 15 February 2022 Adjustment: N/A	40.0 43 3.0 1.9 50.0 53 3.0 1.9
Due Date of Calibration: N/A Appearance: Good Calibration Procedure: JJF 1183-2007, JJF 1076-2001, Remark: N/A	30.0 33 34 10 70.0 72 2.0 1.9
SOP-116	Wind Grood
Palannan Faulannat Idantifiathan	Wind Speed Reference reading (m/s) Measured reading (m/s) Error (%) Uncertainty (%)
Reference Equipment Identification Equipment Description Model Serial No. Expiration Date	0.0 0.0 N/A 3.6
Platinum resistance thermometer KPPRHT-A-1 KCI I-1095, KCI P-1095 28 June 2023	2.0 2.1 5.0 3.6 5.0 5.3 6.0 3.6
Humidity sensor KPPRHT-A-1 KCI I-1095, KCI P-1095 4 March 2022 Hot Wire Anemometer 9535 T95351316004 11 July 2022	8.0 8.2 2.5 3.6
Hot wile Anemoniatel 3222 1322210004 11301 2022	
	Wind Direction Reference reading Measured reading Error Uncertainty
	0° 0° 0° 0° 5°
	45° 45° 0° 5°
	90° 90° 0° 5° 135° 135° 0° 5°
	130° 180° 0° 5°
	225° 225° 0° 5° 270° 270° 0° 5°
	270° 270° 0° 5° 315° 315° 0° 5°
	*** End of Certificate ***
Note1: The estimated expanded uncertainties have been calculated in "Evaluation and expression of uncertainty in measurement" and give an internal estimated to have a level of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated.	
of confidence of 95%. A coverage factor of 2 is assumed unless explicitly stated. Note2: The standard (s) and instrument used in the calibration are traceable to national or international recognized standard and are calibrated on a schedule to maintain the accuracy and good condition.	
Nota3: The result reported in this cartificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long term stability of the instrument.	
Note4: The result shows in this calibration certificate relate only to the item calibrated, and the result only applies to the calibration item as received.	
Approved By: Company Chop:	
KAO I	
Wing Cheng Certificate Issue Date: 16 February 2022	
CT-BEG-03	
1. The certificate shall not be reproduced except in full, without written approval of Cal Lab Calibration CC0012202	1. The certificate shall not be reproduced except in full, without written approval of Cal Lab Calibration CC00122
2. The certificate is issued subject to the latest Terms and Conditions, available at our web site Page 1 of 2	1. The definition is a subject to the latest Terms and Conditions, available at our web site Page 2 of 2

Page 9 of 9

Appendix F – Weather information

General Information

Date	Absolute Daily Min	Absolute Daily Max Temperature (°C)	Total Rainfall	Mean Relative		
01/04/2022	Temperature (°C)	<u> </u>	(mm)	Humidity (%)		
01/04/2022	15.7	22.0	0.5	83		
02/04/2022	13.7	16.1	1.3	76		
03/04/2022	15.2	23.9	0	54		
04/04/2022	16.8	25.6	0	53		
05/04/2022	18.1	26.9	0	64		
06/04/2022	19.4	26.2	0	70		
07/04/2022	20.0	26.7	0	68		
08/04/2022	20.5	29.1	0	50		
09/04/2022	20.3	27.6	0	65		
10/04/2022	20.5	28.5	0	67		
11/04/2022	22.6	30.3	0	74		
12/04/2022	23.0	30.2	0	77		
13/04/2022	23.9	28.1	Trace	81		
14/04/2022	23.0	27.8	0	69		
15/04/2022	22.8	27.6	Trace	69		
16/04/2022	21.2	22.9	Trace	73		
17/04/2022	19.2	24.9	0.4	72		
18/04/2022	20.9	23.2	Trace	76		
19/04/2022	19.1	21.1	0.8	83		
20/04/2022	19.8	25.6	0	75		
21/04/2022	21.4	28.4	0	78		
22/04/2022	23.4	27.2	0	84		
23/04/2022	24.1	30.3	Trace	81		
24/04/2022	24.9	30.9	0	79		
25/04/2022	26.3	31.4	0	79		
26/04/2022	26.2	29.8	0	80		
27/04/2022	26.1	31.6	0	78		
28/04/2022	26.8	31.6	0	79		
29/04/2022	26.2	32.0	0	79		
30/04/2022	24.3	26.8	0.5	85		

NOTE1: The above weather information was obtained from manned weather station of Hong Kong Observatory. NOTE2: Trace means rainfall less than 0.05 mm

https://www.hko.gov.hk/en/cis/dailyExtract.htm?y=2022&m=04

Kai Tak Runway Park Information

Date	Absolute Daily Min Temperature (°C)	Absolute Daily Max Temperature (°C)
01/04/2022	24.7	30.0
02/04/2022	24.0	30.3
03/04/2022	23.0	32.1
04/04/2022	22.1	26.1
05/04/2022	21.3	22.5
06/04/2022	22.1	24.7
07/04/2022	21.6	23.7
08/04/2022	22.0	24.3
09/04/2022	19.5	22.2
10/04/2022	20.3	23.5
11/04/2022	20.7	24.5
12/04/2022	21.7	25.7
13/04/2022	22.0	27.9
14/04/2022	22.9	25.4
15/04/2022	21.4	22.9
16/04/2022	21.5	23.7
17/04/2022	22.0	23.4
18/04/2022	22.2	24.3
19/04/2022	21.1	23.4
20/04/2022	21.3	24.9
21/04/2022	21.9	25.8
22/04/2022	22.3	28.6
23/04/2022	23.5	32.9
24/04/2022	23.6	25.3
25/04/2022	21.9	25.5
26/04/2022	21.5	24.0
27/04/2022	22.3	23.7
28/04/2022	22.8	26.5
29/04/2022	21.9	27.6
30/04/2022	22.4	28.2

NOTE1: The above weather information was obtained from manned weather station of Kai Tak Runway Park.

https://i-lens.hk/hkweather/history_chart.php?date=2022-04-01&chart_type=DG_TEMP

Date	Time	Wind Speed (m/s)	Wind Direction												
01/04/2022	0:00	0.9	112.5	02/04/2022	0:00	0.9	90	03/04/2022	0:00	0.9	90	04/04/2022	0:00	0.9	90
01/04/2022	1:00	1.3	112.5	02/04/2022	1:00	0.9	90	03/04/2022	1:00	0.9	90	04/04/2022	1:00	1.3	67.5
01/04/2022	2:00	1.3	112.5	02/04/2022	2:00	0.9	112.5	03/04/2022	2:00	0.9	45	04/04/2022	2:00	1.3	90
01/04/2022	3:00	0.9	112.5	02/04/2022	3:00	1.8	90	03/04/2022	3:00	0.9	112.5	04/04/2022	3:00	1.3	337.5
01/04/2022	4:00	1.3	90	02/04/2022	4:00	1.3	67.5	03/04/2022	4:00	0.9	90	04/04/2022	4:00	0.9	337.5
01/04/2022	5:00	1.3	112.5	02/04/2022	5:00	1.3	90	03/04/2022	5:00	0.4	90	04/04/2022	5:00	1.3	67.5
01/04/2022	6:00	1.8	135	02/04/2022	6:00	0.9	135	03/04/2022	6:00	0.9	90	04/04/2022	6:00	1.3	45
01/04/2022	7:00	1.3	112.5	02/04/2022	7:00	0.4	112.5	03/04/2022	7:00	1.3	135	04/04/2022	7:00	1.8	90
01/04/2022	8:00	1.8	90	02/04/2022	8:00	0.9	90	03/04/2022	8:00	1.8	135	04/04/2022	8:00	0.9	112.5
01/04/2022	9:00	1.8	135	02/04/2022	9:00	0.9	90	03/04/2022	9:00	1.3	112.5	04/04/2022	9:00	0.9	337.5
01/04/2022	10:00	0.4	112.5	02/04/2022	10:00	0.4	247.5	03/04/2022	10:00	1.3	90	04/04/2022	10:00	1.3	22.5
01/04/2022	11:00	0.9	90	02/04/2022	11:00	0.4	202.5	03/04/2022	11:00	1.3	90	04/04/2022	11:00	0.9	90
01/04/2022	12:00	0.9	135	02/04/2022	12:00	0.9	90	03/04/2022	12:00	0.9	112.5	04/04/2022	12:00	1.3	67.5
01/04/2022	13:00	0.9	90	02/04/2022	13:00	0.9	112.5	03/04/2022	13:00	0.9	225	04/04/2022	13:00	1.3	90
01/04/2022	14:00	0.9	135	02/04/2022	14:00	0.4	112.5	03/04/2022	14:00	0.4	180	04/04/2022	14:00	1.3	22.5
01/04/2022	15:00	0.4	135	02/04/2022	15:00	0.9	135	03/04/2022	15:00	0.9	180	04/04/2022	15:00	1.3	180
01/04/2022	16:00	1.8	247.5	02/04/2022	16:00	0.4	112.5	03/04/2022	16:00	0.4	112.5	04/04/2022	16:00	1.3	112.5
01/04/2022	17:00	1.8	247.5	02/04/2022	17:00	0.9	112.5	03/04/2022	17:00	0.4	135	04/04/2022	17:00	1.3	135
01/04/2022	18:00	1.8	112.5	02/04/2022	18:00	0.9	112.5	03/04/2022	18:00	0.4	112.5	04/04/2022	18:00	0.4	112.5
01/04/2022	19:00	1.3	157.5	02/04/2022	19:00	1.3	112.5	03/04/2022	19:00	0.4	135	04/04/2022	19:00	0.9	90
01/04/2022	20:00	0.9	112.5	02/04/2022	20:00	0.4	90	03/04/2022	20:00	0.4	112.5	04/04/2022	20:00	1.3	112.5
01/04/2022	21:00	0.4	90	02/04/2022	21:00	0.9	90	03/04/2022	21:00	0.4	112.5	04/04/2022	21:00	1.3	90
01/04/2022	22:00	0.4	337.5	02/04/2022	22:00	0.9	112.5	03/04/2022	22:00	0.9	112.5	04/04/2022	22:00	1.3	112.5
01/04/2022	23:00	0.9	270	02/04/2022	23:00	0.4	112.5	03/04/2022	23:00	0.9	225	04/04/2022	23:00	0.9	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction												
05/04/2022	0:00	0.4	45	06/04/2022	0:00	0.9	45	07/04/2022	0:00	1.3	337.5	08/04/2022	0:00	0.4	112.5
05/04/2022	1:00	0.9	225	06/04/2022	1:00	0.9	180	07/04/2022	1:00	0.9	45	08/04/2022	1:00	0.4	112.5
05/04/2022	2:00	0.9	180	06/04/2022	2:00	1.3	90	07/04/2022	2:00	0.9	45	08/04/2022	2:00	0.4	112.5
05/04/2022	3:00	0.4	22.5	06/04/2022	3:00	1.3	45	07/04/2022	3:00	1.3	45	08/04/2022	3:00	0	112.5
05/04/2022	4:00	0.4	270	06/04/2022	4:00	0.9	45	07/04/2022	4:00	0.4	45	08/04/2022	4:00	0	112.5
05/04/2022	5:00	0.9	22.5	06/04/2022	5:00	0.9	270	07/04/2022	5:00	0.9	247.5	08/04/2022	5:00	0	112.5
05/04/2022	6:00	1.3	270	06/04/2022	6:00	0.9	337.5	07/04/2022	6:00	0.9	22.5	08/04/2022	6:00	0.4	112.5
05/04/2022	7:00	0.9	90	06/04/2022	7:00	0.4	45	07/04/2022	7:00	1.3	22.5	08/04/2022	7:00	0.4	112.5
05/04/2022	8:00	0.4	90	06/04/2022	8:00	0.9	247.5	07/04/2022	8:00	1.3	45	08/04/2022	8:00	1.3	112.5
05/04/2022	9:00	0.9	247.5	06/04/2022	9:00	0.4	270	07/04/2022	9:00	0.4	67.5	08/04/2022	9:00	1.3	112.5
05/04/2022	10:00	0.4	202.5	06/04/2022	10:00	0.9	22.5	07/04/2022	10:00	0.4	135	08/04/2022	10:00	1.3	112.5
05/04/2022	11:00	0.4	180	06/04/2022	11:00	0.9	22.5	07/04/2022	11:00	0.4	202.5	08/04/2022	11:00	1.3	135
05/04/2022	12:00	0.4	45	06/04/2022	12:00	0.4	337.5	07/04/2022	12:00	0.4	45	08/04/2022	12:00	1.3	90
05/04/2022	13:00	0.4	315	06/04/2022	13:00	0.9	225	07/04/2022	13:00	0.4	315	08/04/2022	13:00	0.4	112.5
05/04/2022	14:00	0.4	292.5	06/04/2022	14:00	0.4	157.5	07/04/2022	14:00	0.9	22.5	08/04/2022	14:00	0.4	112.5
05/04/2022	15:00	0.4	22.5	06/04/2022	15:00	0.9	90	07/04/2022	15:00	0.4	135	08/04/2022	15:00	0.9	45
05/04/2022	16:00	0.4	270	06/04/2022	16:00	0.9	90	07/04/2022	16:00	0.9	135	08/04/2022	16:00	0.4	45
05/04/2022	17:00	0.9	22.5	06/04/2022	17:00	1.3	112.5	07/04/2022	17:00	0.9	90	08/04/2022	17:00	0.4	112.5
05/04/2022	18:00	0.9	90	06/04/2022	18:00	0.9	90	07/04/2022	18:00	0.9	270	08/04/2022	18:00	0.9	112.5
05/04/2022	19:00	0.4	45	06/04/2022	19:00	0.9	112.5	07/04/2022	19:00	0.4	247.5	08/04/2022	19:00	0.4	315
05/04/2022	20:00	0.9	247.5	06/04/2022	20:00	0.4	90	07/04/2022	20:00	0.4	112.5	08/04/2022	20:00	0.4	112.5
05/04/2022	21:00	0.9	45	06/04/2022	21:00	0.4	90	07/04/2022	21:00	1.3	45	08/04/2022	21:00	0.9	45
05/04/2022	22:00	0.9	225	06/04/2022	22:00	0.9	90	07/04/2022	22:00	1.3	112.5	08/04/2022	22:00	0.4	45
05/04/2022	23:00	0.4	315	06/04/2022	23:00	0.4	90	07/04/2022	23:00	1.3	90	08/04/2022	23:00	0.4	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction												
09/04/2022	0:00	0.9	67.5	10/04/2022	0:00	0.4	112.5	11/04/2022	0:00	0.4	112.5	12/04/2022	0:00	0.9	225
09/04/2022	1:00	0.4	22.5	10/04/2022	1:00	0.9	112.5	11/04/2022	1:00	0.4	135	12/04/2022	1:00	0.9	247.5
09/04/2022	2:00	0.9	67.5	10/04/2022	2:00	1.3	112.5	11/04/2022	2:00	0.4	112.5	12/04/2022	2:00	0.9	247.5
09/04/2022	3:00	0.9	67.5	10/04/2022	3:00	0.9	45	11/04/2022	3:00	0.4	112.5	12/04/2022	3:00	0.4	225
09/04/2022	4:00	0.9	45	10/04/2022	4:00	0.9	112.5	11/04/2022	4:00	0.4	67.5	12/04/2022	4:00	0.4	247.5
09/04/2022	5:00	1.3	67.5	10/04/2022	5:00	0.4	112.5	11/04/2022	5:00	1.8	157.5	12/04/2022	5:00	0.4	292.5
09/04/2022	6:00	0.4	45	10/04/2022	6:00	0.9	112.5	11/04/2022	6:00	1.8	112.5	12/04/2022	6:00	0.9	225
09/04/2022	7:00	0.9	135	10/04/2022	7:00	0.4	90	11/04/2022	7:00	2.7	180	12/04/2022	7:00	0.9	247.5
09/04/2022	8:00	0.9	135	10/04/2022	8:00	0.9	90	11/04/2022	8:00	1.3	112.5	12/04/2022	8:00	0.4	247.5
09/04/2022	9:00	0.4	22.5	10/04/2022	9:00	0.4	90	11/04/2022	9:00	1.3	90	12/04/2022	9:00	0.4	157.5
09/04/2022	10:00	1.3	45	10/04/2022	10:00	0.4	112.5	11/04/2022	10:00	1.3	135	12/04/2022	10:00	0.9	112.5
09/04/2022	11:00	1.3	45	10/04/2022	11:00	0.9	45	11/04/2022	11:00	1.3	112.5	12/04/2022	11:00	0.9	157.5
09/04/2022	12:00	1.3	45	10/04/2022	12:00	0.4	112.5	11/04/2022	12:00	1.8	135	12/04/2022	12:00	0.4	157.5
09/04/2022	13:00	1.3	90	10/04/2022	13:00	0.9	112.5	11/04/2022	13:00	1.3	135	12/04/2022	13:00	0.9	247.5
09/04/2022	14:00	1.3	45	10/04/2022	14:00	1.3	112.5	11/04/2022	14:00	1.3	270	12/04/2022	14:00	0.9	112.5
09/04/2022	15:00	0.4	135	10/04/2022	15:00	1.8	45	11/04/2022	15:00	1.3	247.5	12/04/2022	15:00	0.9	67.5
09/04/2022	16:00	0.4	67.5	10/04/2022	16:00	1.3	67.5	11/04/2022	16:00	1.3	270	12/04/2022	16:00	1.3	225
09/04/2022	17:00	0.9	90	10/04/2022	17:00	0.9	112.5	11/04/2022	17:00	1.3	247.5	12/04/2022	17:00	1.8	247.5
09/04/2022	18:00	1.3	90	10/04/2022	18:00	0.9	112.5	11/04/2022	18:00	1.3	270	12/04/2022	18:00	1.3	247.5
09/04/2022	19:00	1.3	90	10/04/2022	19:00	1.3	112.5	11/04/2022	19:00	0.9	247.5	12/04/2022	19:00	1.3	90
09/04/2022	20:00	1.3	112.5	10/04/2022	20:00	1.3	112.5	11/04/2022	20:00	0.9	247.5	12/04/2022	20:00	1.3	45
09/04/2022	21:00	1.3	135	10/04/2022	21:00	0.4	112.5	11/04/2022	21:00	0.9	45	12/04/2022	21:00	1.3	247.5
09/04/2022	22:00	0.9	90	10/04/2022	22:00	0.9	112.5	11/04/2022	22:00	0.9	45	12/04/2022	22:00	1.3	112.5
09/04/2022	23:00	0.9	112.5	10/04/2022	23:00	0.4	112.5	11/04/2022	23:00	0.9	22.5	12/04/2022	23:00	1.3	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction												
13/04/2022	0:00	0.4	135	14/04/2022	0:00	1.3	112.5	15/04/2022	0:00	0.4	67.5	16/04/2022	0:00	0.4	112.5
13/04/2022	1:00	0.4	90	14/04/2022	1:00	1.3	112.5	15/04/2022	1:00	0.4	67.5	16/04/2022	1:00	0.9	112.5
13/04/2022	2:00	0.4	22.5	14/04/2022	2:00	0.9	135	15/04/2022	2:00	1.3	0	16/04/2022	2:00	0.4	45
13/04/2022	3:00	1.3	90	14/04/2022	3:00	1.3	90	15/04/2022	3:00	0	67.5	16/04/2022	3:00	0.4	112.5
13/04/2022	4:00	0.9	112.5	14/04/2022	4:00	0.9	112.5	15/04/2022	4:00	0.4	90	16/04/2022	4:00	1.3	90
13/04/2022	5:00	0.9	112.5	14/04/2022	5:00	0.9	112.5	15/04/2022	5:00	0.4	90	16/04/2022	5:00	0.4	112.5
13/04/2022	6:00	0.9	135	14/04/2022	6:00	1.8	112.5	15/04/2022	6:00	0.4	67.5	16/04/2022	6:00	0.4	67.5
13/04/2022	7:00	0.9	90	14/04/2022	7:00	0.4	90	15/04/2022	7:00	0.9	90	16/04/2022	7:00	1.3	135
13/04/2022	8:00	0.9	112.5	14/04/2022	8:00	1.3	45	15/04/2022	8:00	1.3	135	16/04/2022	8:00	1.3	112.5
13/04/2022	9:00	1.8	112.5	14/04/2022	9:00	0.4	45	15/04/2022	9:00	0.9	67.5	16/04/2022	9:00	0.9	135
13/04/2022	10:00	1.3	112.5	14/04/2022	10:00	1.3	112.5	15/04/2022	10:00	1.3	90	16/04/2022	10:00	1.3	90
13/04/2022	11:00	0.9	90	14/04/2022	11:00	1.3	112.5	15/04/2022	11:00	1.3	90	16/04/2022	11:00	0.9	112.5
13/04/2022	12:00	1.8	90	14/04/2022	12:00	0.9	135	15/04/2022	12:00	0.9	90	16/04/2022	12:00	1.3	90
13/04/2022	13:00	0.9	112.5	14/04/2022	13:00	1.3	112.4	15/04/2022	13:00	0.4	90	16/04/2022	13:00	0.4	112.5
13/04/2022	14:00	0.9	135	14/04/2022	14:00	0.9	90	15/04/2022	14:00	0.9	45	16/04/2022	14:00	0.4	112.5
13/04/2022	15:00	0.9	90	14/04/2022	15:00	0.9	90	15/04/2022	15:00	0.4	135	16/04/2022	15:00	0.4	90
13/04/2022	16:00	0.9	112.5	14/04/2022	16:00	1.3	112.5	15/04/2022	16:00	0.4	135	16/04/2022	16:00	0.4	90
13/04/2022	17:00	1.8	112.5	14/04/2022	17:00	1.8	90	15/04/2022	17:00	0.4	112.5	16/04/2022	17:00	0.4	67.5
13/04/2022	18:00	1.3	112.5	14/04/2022	18:00	0.9	90	15/04/2022	18:00	0.9	22.5	16/04/2022	18:00	0.9	112.5
13/04/2022	19:00	0.9	90	14/04/2022	19:00	0.9	202.5	15/04/2022	19:00	0.9	90	16/04/2022	19:00	1.3	135
13/04/2022	20:00	1.8	90	14/04/2022	20:00	0.9	112.5	15/04/2022	20:00	0.4	135	16/04/2022	20:00	1.3	90
13/04/2022	21:00	1.3	90	14/04/2022	21:00	0.9	0	15/04/2022	21:00	0.4	225	16/04/2022	21:00	1.8	0
13/04/2022	22:00	1.8	67.5	14/04/2022	22:00	1.3	90	15/04/2022	22:00	0.4	157.5	16/04/2022	22:00	1.3	112.5
13/04/2022	23:00	0.9	112.5	14/04/2022	23:00	1.3	90	15/04/2022	23:00	1.3	90	16/04/2022	23:00	0.9	112.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction												
17/04/2022	0:00	1.3	135	18/04/2022	0:00	0.9	0	19/04/2022	0:00	0.9	292.5	20/04/2022	0:00	1.3	112.5
17/04/2022	1:00	1.3	22.5	18/04/2022	1:00	0.4	45	19/04/2022	1:00	0.9	22.5	20/04/2022	1:00	1.3	90
17/04/2022	2:00	1.3	90	18/04/2022	2:00	0.9	0	19/04/2022	2:00	0.9	0	20/04/2022	2:00	1.8	112.5
17/04/2022	3:00	1.8	67.5	18/04/2022	3:00	0.9	0	19/04/2022	3:00	0.9	112.5	20/04/2022	3:00	0.9	67.5
17/04/2022	4:00	1.8	67.5	18/04/2022	4:00	0.9	337.5	19/04/2022	4:00	0.9	67.5	20/04/2022	4:00	0.9	112.5
17/04/2022	5:00	0.9	90	18/04/2022	5:00	1.3	112.5	19/04/2022	5:00	0.9	157.5	20/04/2022	5:00	0.9	112.5
17/04/2022	6:00	0.9	90	18/04/2022	6:00	1.3	112.5	19/04/2022	6:00	0.9	337.5	20/04/2022	6:00	0.4	90
17/04/2022	7:00	1.8	67.5	18/04/2022	7:00	1.3	90	19/04/2022	7:00	0.9	22.5	20/04/2022	7:00	0.9	90
17/04/2022	8:00	1.3	45	18/04/2022	8:00	1.8	90	19/04/2022	8:00	0.9	292.5	20/04/2022	8:00	0.9	112.5
17/04/2022	9:00	1.3	45	18/04/2022	9:00	1.3	112.5	19/04/2022	9:00	0.4	315	20/04/2022	9:00	0.9	225
17/04/2022	10:00	0.4	45	18/04/2022	10:00	0.4	135	19/04/2022	10:00	0.4	225	20/04/2022	10:00	1.8	112.5
17/04/2022	11:00	0.4	67.5	18/04/2022	11:00	0.9	90	19/04/2022	11:00	0.9	202.5	20/04/2022	11:00	1.3	45
17/04/2022	12:00	0.4	45	18/04/2022	12:00	0.9	112.5	19/04/2022	12:00	0.4	135	20/04/2022	12:00	1.3	112.5
17/04/2022	13:00	0.4	90	18/04/2022	13:00	0.9	135	19/04/2022	13:00	0.4	112.5	20/04/2022	13:00	1.3	135
17/04/2022	14:00	1.3	135	18/04/2022	14:00	1.3	112.5	19/04/2022	14:00	0.4	112.5	20/04/2022	14:00	0.9	112.5
17/04/2022	15:00	1.8	292.5	18/04/2022	15:00	0.9	90	19/04/2022	15:00	0.4	135	20/04/2022	15:00	0.9	135
17/04/2022	16:00	1.8	67.5	18/04/2022	16:00	0.9	135	19/04/2022	16:00	1.3	112.5	20/04/2022	16:00	1.3	112.5
17/04/2022	17:00	2.2	67.5	18/04/2022	17:00	0.9	112.5	19/04/2022	17:00	0.4	112.5	20/04/2022	17:00	0.4	135
17/04/2022	18:00	1.8	67.5	18/04/2022	18:00	1.3	112.5	19/04/2022	18:00	1.8	112.5	20/04/2022	18:00	0.4	135
17/04/2022	19:00	1.3	112.5	18/04/2022	19:00	2.2	112.5	19/04/2022	19:00	1.3	0	20/04/2022	19:00	1.3	135
17/04/2022	20:00	1.8	67.5	18/04/2022	20:00	2.2	90	19/04/2022	20:00	0.9	112.5	20/04/2022	20:00	0.9	135
17/04/2022	21:00	1.3	112.5	18/04/2022	21:00	1.8	90	19/04/2022	21:00	1.3	0	20/04/2022	21:00	0.9	247.5
17/04/2022	22:00	0.9	112.5	18/04/2022	22:00	2.2	112.5	19/04/2022	22:00	0.9	90	20/04/2022	22:00	1.3	247.5
17/04/2022	23:00	1.8	90	18/04/2022	23:00	1.3	112.5	19/04/2022	23:00	1.8	45	20/04/2022	23:00	1.3	247.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction												
21/04/2022	0:00	0.9	112.5	22/04/2022	0:00	0.4	225	23/04/2022	0:00	0.9	112.5	24/04/2022	0:00	0.4	112.5
21/04/2022	1:00	1.3	90	22/04/2022	1:00	0.4	292.5	23/04/2022	1:00	1.3	112.5	24/04/2022	1:00	0.4	90
21/04/2022	2:00	1.8	112.5	22/04/2022	2:00	0.4	225	23/04/2022	2:00	1.3	112.5	24/04/2022	2:00	0.4	67.5
21/04/2022	3:00	1.3	112.5	22/04/2022	3:00	0.4	67.5	23/04/2022	3:00	1.8	112.5	24/04/2022	3:00	0.4	90
21/04/2022	4:00	1.8	112.5	22/04/2022	4:00	0.4	135	23/04/2022	4:00	1.3	90	24/04/2022	4:00	0.4	135
21/04/2022	5:00	1.3	90	22/04/2022	5:00	1.3	112.5	23/04/2022	5:00	1.3	90	24/04/2022	5:00	0.9	112.5
21/04/2022	6:00	1.3	90	22/04/2022	6:00	0.4	202.5	23/04/2022	6:00	0.9	112.5	24/04/2022	6:00	0.9	135
21/04/2022	7:00	0.9	112.5	22/04/2022	7:00	0.9	67.5	23/04/2022	7:00	1.3	90	24/04/2022	7:00	0.9	112.5
21/04/2022	8:00	1.8	112.5	22/04/2022	8:00	0.9	247.5	23/04/2022	8:00	1.3	112.5	24/04/2022	8:00	0.9	90
21/04/2022	9:00	1.8	67.5	22/04/2022	9:00	1.8	202.5	23/04/2022	9:00	0.9	112.5	24/04/2022	9:00	0.9	112.5
21/04/2022	10:00	1.3	112.5	22/04/2022	10:00	0.4	225	23/04/2022	10:00	1.3	112.5	24/04/2022	10:00	0.9	90
21/04/2022	11:00	1.8	67.5	22/04/2022	11:00	0.4	292.5	23/04/2022	11:00	1.8	112.5	24/04/2022	11:00	0.9	112.5
21/04/2022	12:00	0.9	112.5	22/04/2022	12:00	0.9	67.5	23/04/2022	12:00	1.3	112.5	24/04/2022	12:00	0.4	112.5
21/04/2022	13:00	0.9	112.5	22/04/2022	13:00	0.9	112.5	23/04/2022	13:00	1.3	112.5	24/04/2022	13:00	1.3	45
21/04/2022	14:00	1.3	90	22/04/2022	14:00	0.9	112.5	23/04/2022	14:00	1.3	135	24/04/2022	14:00	0.4	45
21/04/2022	15:00	1.3	112.5	22/04/2022	15:00	0.4	90	23/04/2022	15:00	0.9	135	24/04/2022	15:00	0.9	67.5
21/04/2022	16:00	1.3	112.5	22/04/2022	16:00	0.9	90	23/04/2022	16:00	1.3	90	24/04/2022	16:00	0.9	112.5
21/04/2022	17:00	0.9	112.5	22/04/2022	17:00	0.9	112.5	23/04/2022	17:00	1.3	90	24/04/2022	17:00	1.3	90
21/04/2022	18:00	1.3	112.5	22/04/2022	18:00	0.9	225	23/04/2022	18:00	0.4	22.5	24/04/2022	18:00	0.9	22.5
21/04/2022	19:00	1.8	112.5	22/04/2022	19:00	1.8	112.5	23/04/2022	19:00	0.9	90	24/04/2022	19:00	0.4	67.5
21/04/2022	20:00	1.8	135	22/04/2022	20:00	1.3	45	23/04/2022	20:00	1.3	157.5	24/04/2022	20:00	0.4	67.5
21/04/2022	21:00	1.8	90	22/04/2022	21:00	1.3	112.5	23/04/2022	21:00	1.8	112.5	24/04/2022	21:00	0.9	90
21/04/2022	22:00	0.9	112.5	22/04/2022	22:00	1.3	135	23/04/2022	22:00	1.3	112.5	24/04/2022	22:00	0.9	202.5
21/04/2022	23:00	1.3	135	22/04/2022	23:00	0.9	67.5	23/04/2022	23:00	1.8	157.5	24/04/2022	23:00	0.4	225

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction												
25/04/2022	0:00	1.3	90	26/04/2022	0:00	0.4	135	27/04/2022	0:00	0.9	225	28/04/2022	0:00	1.8	90
25/04/2022	1:00	0.9	22.5	26/04/2022	1:00	0.9	247.5	27/04/2022	1:00	0.9	225	28/04/2022	1:00	1.3	112.5
25/04/2022	2:00	0.9	67.5	26/04/2022	2:00	0.9	202.5	27/04/2022	2:00	0.9	112.5	28/04/2022	2:00	1.8	225
25/04/2022	3:00	0.4	112.5	26/04/2022	3:00	0.9	45	27/04/2022	3:00	0.9	112.5	28/04/2022	3:00	1.3	135
25/04/2022	4:00	0.9	45	26/04/2022	4:00	0.4	90	27/04/2022	4:00	0.4	112.5	28/04/2022	4:00	1.8	90
25/04/2022	5:00	0.9	112.5	26/04/2022	5:00	0.4	112.5	27/04/2022	5:00	0.4	112.5	28/04/2022	5:00	1.3	270
25/04/2022	6:00	0.4	292.5	26/04/2022	6:00	0.9	112.5	27/04/2022	6:00	0.9	135	28/04/2022	6:00	1.3	90
25/04/2022	7:00	0.9	112.5	26/04/2022	7:00	0.9	112.5	27/04/2022	7:00	0.4	135	28/04/2022	7:00	1.3	45
25/04/2022	8:00	1.3	90	26/04/2022	8:00	0.9	112.5	27/04/2022	8:00	0.4	247.5	28/04/2022	8:00	1.3	45
25/04/2022	9:00	1.8	90	26/04/2022	9:00	0.9	157.5	27/04/2022	9:00	0.9	315	28/04/2022	9:00	1.8	45
25/04/2022	10:00	1.8	45	26/04/2022	10:00	0.9	157.5	27/04/2022	10:00	0	22.5	28/04/2022	10:00	1.8	45
25/04/2022	11:00	2.2	67.5	26/04/2022	11:00	0.9	180	27/04/2022	11:00	1.3	112.5	28/04/2022	11:00	1.8	90
25/04/2022	12:00	2.2	90	26/04/2022	12:00	0.4	180	27/04/2022	12:00	0.9	225	28/04/2022	12:00	1.3	112.5
25/04/2022	13:00	1.3	90	26/04/2022	13:00	0.4	135	27/04/2022	13:00	0.9	112.5	28/04/2022	13:00	1.8	225
25/04/2022	14:00	1.8	225	26/04/2022	14:00	0.9	247.5	27/04/2022	14:00	1.8	337.5	28/04/2022	14:00	1.8	67.5
25/04/2022	15:00	1.3	135	26/04/2022	15:00	0.4	135	27/04/2022	15:00	1.8	45	28/04/2022	15:00	0.9	45
25/04/2022	16:00	1.8	90	26/04/2022	16:00	0.9	247.5	27/04/2022	16:00	1.8	45	28/04/2022	16:00	0.9	45
25/04/2022	17:00	1.3	270	26/04/2022	17:00	0.9	202.5	27/04/2022	17:00	1.8	45	28/04/2022	17:00	1.8	90
25/04/2022	18:00	1.3	90	26/04/2022	18:00	0.9	45	27/04/2022	18:00	2.2	67.5	28/04/2022	18:00	1.8	67.5
25/04/2022	19:00	1.3	45	26/04/2022	19:00	0.4	90	27/04/2022	19:00	0.9	270	28/04/2022	19:00	1.3	67.5
25/04/2022	20:00	1.3	45	26/04/2022	20:00	0.4	112.5	27/04/2022	20:00	0.9	45	28/04/2022	20:00	1.3	90
25/04/2022	21:00	1.8	45	26/04/2022	21:00	0.9	112.5	27/04/2022	21:00	0.9	90	28/04/2022	21:00	0.9	67.5
25/04/2022	22:00	1.8	45	26/04/2022	22:00	0.9	112.5	27/04/2022	22:00	1.3	67.5	28/04/2022	22:00	0.9	67.5
25/04/2022	23:00	1.3	270	26/04/2022	23:00	0.9	112.5	27/04/2022	23:00	0.9	45	28/04/2022	23:00	1.8	67.5

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction	Date	Time	Wind Speed (m/s)	Wind Direction
29/04/2022	0:00	0.9	112.5	30/04/2022	0:00	0.4	112.5								
29/04/2022	1:00	0.9	112.5	30/04/2022	1:00	0.4	112.5								
29/04/2022	2:00	1.3	67.5	30/04/2022	2:00	1.3	112.5								
29/04/2022	3:00	0.9	45	30/04/2022	3:00	1.3	112.5								
29/04/2022	4:00	0.9	90	30/04/2022	4:00	2.2	90								
29/04/2022	5:00	1.3	90	30/04/2022	5:00	1.3	90								
29/04/2022	6:00	0.4	90	30/04/2022	6:00	1.3	90								
29/04/2022	7:00	0	112.5	30/04/2022	7:00	1.3	90								
29/04/2022	8:00	0.9	112.5	30/04/2022	8:00	1.3	112.5								
29/04/2022	9:00	0.4	67.5	30/04/2022	9:00	0.9	112.5								
29/04/2022	10:00	0.4	22.5	30/04/2022	10:00	0.4	225								
29/04/2022	11:00	1.3	337.5	30/04/2022	11:00	1.3	67.5								
29/04/2022	12:00	0.9	112.5	30/04/2022	12:00	0.9	225								
29/04/2022	13:00	0.9	112.5	30/04/2022	13:00	0.9	112.4								
29/04/2022	14:00	1.8	112.5	30/04/2022	14:00	1.3	112.5								
29/04/2022	15:00	1.3	90	30/04/2022	15:00	0.4	90								
29/04/2022	16:00	0.9	112.5	30/04/2022	16:00	0.9	45								
29/04/2022	17:00	0.9	112.5	30/04/2022	17:00	0.9	90								
29/04/2022	18:00	1.3	90	30/04/2022	18:00	0.9	90								
29/04/2022	19:00	0.9	112.5	30/04/2022	19:00	1.8	45								
29/04/2022	20:00	1.3	112.5	30/04/2022	20:00	1.3	0								
29/04/2022	21:00	0.9	112.5	30/04/2022	21:00	0.9	112.5								
29/04/2022	22:00	1.3	135	30/04/2022	22:00	0.9	90								
29/04/2022	23:00	1.3	67.5	30/04/2022	23:00	0.4	90								

Mean Wind Speed and Wind Direction recorded by the weather station setup at the rooftop of Ng Wah Catholic Secondary School

Appendix G – 24-hr TSP monitoring results and graphical presentation

Start Date	Weather	Air Temp.	Atmospheric Pressure	Filter weight (g)		Particulate	Elapse Time		Sampling Time	(cfm)		Av. Flow	Total vol.	Conc.
		(°C)	(hPa)	Initial	Final	weight (g)	Initial	Final	(min)	Initial	Final	(m ³ /min)	(m^3) $(\mu g/m^3)$	
04/04/2022	Sunny	25.6	1022.2	15.2224	15.4319	0.2095	6888.62	6912.63	1441	50	50	1.46	2110	99
09/04/2022	Sunny	28.5	1013.8	18.1533	18.2679	0.1146	6913.64	6937.65	1441	50	50	1.45	2091	55
14/04/2022	Sunny	31.5	1008.4	18.1987	18.4628	0.2641	6938.31	6962.31	1440	50	50	1.44	2074	127
20/04/2022	Sunny	25.5	1013.4	15.4437	15.5690	0.1253	6963.43	6987.44	1441	49	49	1.43	2059	61
25/04/2022	Sunny	31.6	1008.6	15.1253	15.2312	0.1059	6989.21	7013.21	1440	50	50	1.44	2074	51
30/04/2022	Sunny	26.2	1012.3	15.1384	15.2265	0.0881	7013.88	7037.89	1441	50	50	1.46	2098	42
												Maxim	num	127
												Minim	um	42
												Avera	ige	73
												Action I	Level	175

Location: AM2(A) – Ng Wah Catholic Secondary School

Location: AM3 – Sky Tower

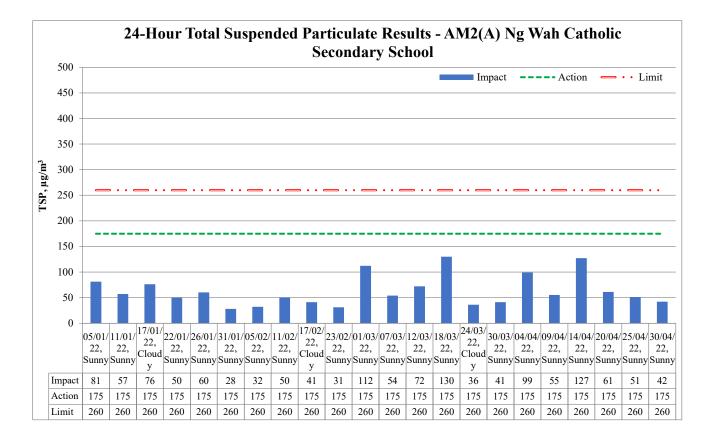
Start Date	Weather	Air Temp.	Atmospheric Pressure	Filter weight (g)		Particulate	Elapse Time		Sampling Time	Flow Rate (cfm)		Av. Flow	Total vol.	Conc.
		(°C)	(hPa)	Initial	Final	weight (g)	Initial	Final	(min)	Initial	Final	(m ³ /min)	(m^3)	$(\mu g/m^3)$
04/04/2022	Sunny	25.6	1022.2	15.2487	15.4272	0.1785	4363.12	4387.14	1441	50	50	1.40	2024	88
09/04/2022	Sunny	28.5	1013.8	18.2879	18.4529	0.1650	4388.33	4412.35	1441	52	52	1.45	2088	79
14/04/2022	Sunny	31.5	1008.4	15.2878	15.4994	0.2116	4413.37	4437.39	1441	52	52	1.44	2071	102
20/04/2022	Sunny	25.5	1013.4	18.2423	18.4275	0.1852	4438.87	4462.89	1441	54	54	1.51	2181	85
25/04/2022	Sunny	31.6	1008.6	15.2001	15.2561	0.0560	4463.24	4487.25	1441	52	52	1.44	2070	27
30/04/2022	Sunny	26.2	1012.3	15.0384	15.0982	0.0598	4487.55	4511.57	1441	50	50	1.40	2012	30
												Max	imum	102
												Mini	imum	27
												Ave	erage	69
												Action	n Level	172

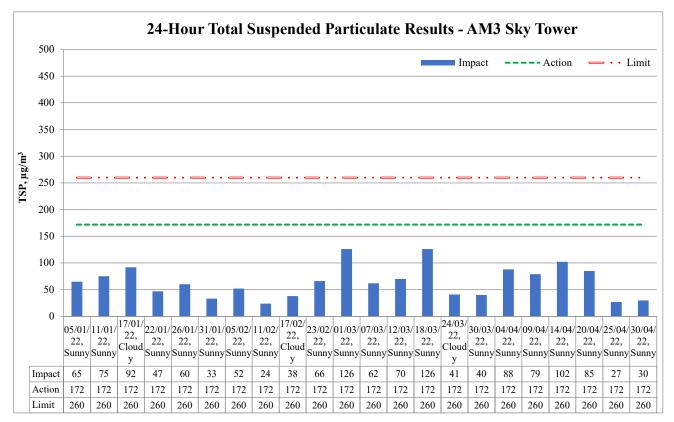
Limit Level 260

Limit Level

260

24-hour average TSP





	Reporting Period						
Major Construction Activities	Jan	Feb	March	April			
	2022	2022	2022	2022			
Bored pile works for landscape elevated walkway	✓	✓					
Instrumentation installation at SB-01	✓						
Pre-drilling work for S14	✓						
Removal existing piles at Road D1	✓						
Rising main construction	✓						
Trial pit excavation	✓						
Advance works for traffic diversion at Sa Po Road	✓						
Drainage works for Pedestrian Street No.1, No,2 & No.3	✓						
Construction of Crowd Dispersal Route	✓	✓	✓	\checkmark			
ELS and excavation at Pier 9 and Pier 10 for Elevated Walkway LW-02		✓					
ELS and excavation at Pier 9 for Elevated Walkway LW-02				\checkmark			
Underground utility diversion works at Sa Po Road		✓	✓	\checkmark			
ELS and excavation at launching shaft for subway SB-01		✓	✓	\checkmark			
Drainage works for Pedestrian Street No.1, No.2 No.3 & No.4		✓					
Construction of DCS		✓	✓	\checkmark			
Construction works for Road L16		✓	✓	\checkmark			
Pre-bored socket H-piles construction for Subway KS10		✓	✓				
Twin rising mains diversion works		✓					
Renovation works for existing subways KS9 and KS32		✓	✓	\checkmark			
Post-pilling tests for PC11 for Elevated Walkway LW-02			✓				
ELS and excavation at Pier 9 for Elevated Walkway LW-02			✓				
Pile cap construction for PC9 and PC10 for Elevated Walkway LW-02			✓	\checkmark			
Construction works for Pedestrian Street No. 1, No. 2, No. 3 & No. 4			✓	\checkmark			
Post-pilling tests for H-piles at Subway KS10			✓	\checkmark			
Erection of temporary decking across existing Kai Tak River				\checkmark			
ELS and excavation for Subway KS10 Lift and Staircase				\checkmark			
Demolition works to existing subway KS10 staircase and ramp				\checkmark			

	Reporting Period						
Factors might affect the monitoring results	Jan 2022	Feb 2022	March 2022	April 2022			
Non-project related construction activities in the adjacent construction sites were observed.	\checkmark	~	~	~			

Appendix H – 1-hr TSP monitoring results and graphical presentation

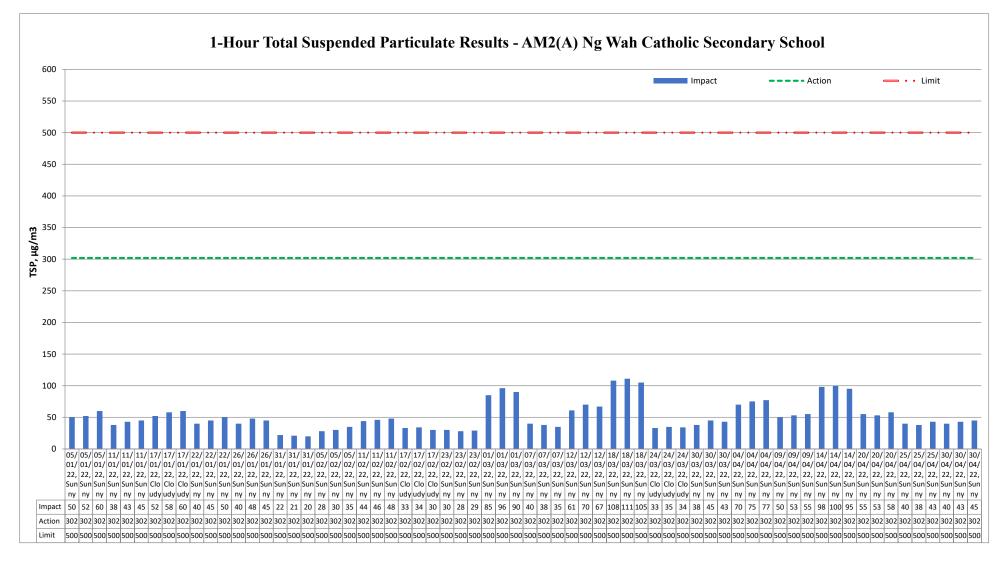
	Date	Measure	emer	nt Period	1-hr TSP concentration, $\mu g/m^3$	Weather		
Location:	-	13:00	-	14:00	70			
AM2(A) –	04/04/2022	14:00	-	15:00	75	Sunny		
Ng Wah Catholic		15:00	-	16:00	77			
8		9:00	-	10:00	50			
Secondary School	09/04/2022	10:00	-	11:00	53	Sunny		
		11:00	-	12:00	55			
		13:00	-	14:00	98			
	14/04/2022	14:00	-	15:00	100	Sunny		
		15:00	-	16:00	95			
	20/04/2022	9:00	-	10:00	55			
		10:00	-	11:00	53	Sunny		
		11:00	-	12:00	58			
		9:00	-	10:00	40			
	25/04/2022	10:00	-	11:00	38	Sunny		
		11:00	-	12:00	43			
		13:00	-	14:00	40			
	30/04/2022	14:00	-	15:00	43	Sunny		
		15:00	-	16:00	45			
	N	laximum			100			
	Ν	linimum			38			
		Average			60			
	Ac	tion Level	1		302			
	Li	mit Level			500			

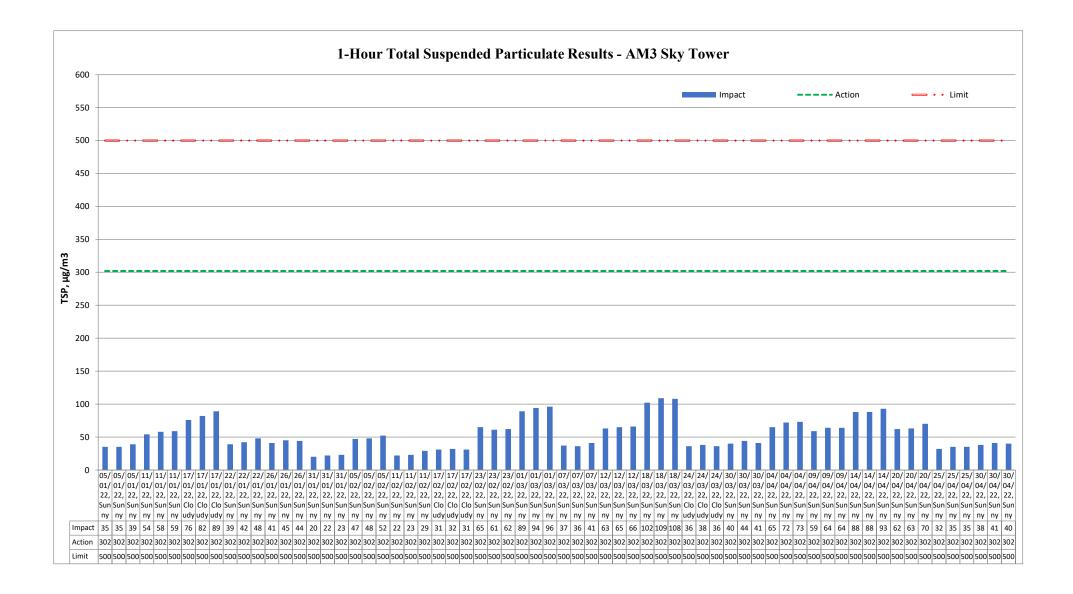
Date	Measure	emei	nt Period	1-hr TSP concentration, $\mu g/m^3$	Weather			
	9:00	-	10:00	65				
04/04/2022	10:00	-	11:00	72	Sunny			
	11:00	-	12:00	73				
	13:00	-	14:00	59				
09/04/2022	14:00	-	15:00	64	Sunny			
	15:00	-	16:00	64				
	9:00	-	10:00	88				
14/04/2022	10:00		022 10:00		11:00	88	Sunny	
	11:00	-	12:00	93				
	9:00	-	10:00	62				
20/04/2022	10:00		11:00	63	Sunny			
	11:00	-	12:00	70				
	13:00	-	14:00	32				
25/04/2022	14:00	-	15:00	35	Sunny			
	15:00	-	16:00	35				
	13:00	-	14:00	38				
30/04/2022	14:00	-	15:00	41	Sunny			
	15:00	-	16:00	40				
N	laximum			93				
Ν	linimum			32				
	Average			60				
Ac	tion Level	1		301				
Li	mit Level			500				

Location: **AM3 -**

Sky Tower

1-hour average TSP





		Reporti	ng Period	
Major Construction Activities	Jan	Feb	March	April
	2022	2022	2022	2022
Bored pile works for landscape elevated walkway	√	✓		
Instrumentation installation at SB-01	✓			
Pre-drilling work for S14	✓			
Removal existing piles at Road D1	✓			
Rising main construction	✓			
Trial pit excavation	✓			
Advance works for traffic diversion at Sa Po Road	✓			
Drainage works for Pedestrian Street No.1, No,2 & No.3	✓			
Construction of Crowd Dispersal Route	✓	✓	✓	\checkmark
ELS and excavation at Pier 9 and Pier 10 for Elevated Walkway LW-02		✓		
ELS and excavation at Pier 9 for Elevated Walkway LW-02				\checkmark
Underground utility diversion works at Sa Po Road		✓	✓	\checkmark
ELS and excavation at launching shaft for subway SB-01		✓	✓	\checkmark
Drainage works for Pedestrian Street No.1, No,2 No.3 & No.4		✓		
Construction of DCS		✓	✓	\checkmark
Construction works for Road L16		✓	✓	\checkmark
Pre-bored socket H-piles construction for Subway KS10		✓	✓	
Twin rising mains diversion works		✓		
Renovation works for existing subways KS9 and KS32		✓	✓	\checkmark
Post-pilling tests for PC11 for Elevated Walkway LW-02			✓	
ELS and excavation at Pier 9 for Elevated Walkway LW-02			✓	
Pile cap construction for PC9 and PC10 for Elevated Walkway LW-02			✓	\checkmark
Construction works for Pedestrian Street No. 1, No. 2, No. 3 & No. 4			✓	\checkmark
Post-pilling tests for H-piles at Subway KS10			✓	\checkmark
Erection of temporary decking across existing Kai Tak River				\checkmark
ELS and excavation for Subway KS10 Lift and Staircase				\checkmark
Demolition works to existing subway KS10 staircase and ramp				\checkmark

		Reportir	ng Period	
Factors might affect the monitoring results	Jan 2022	Feb 2022	March 2022	April 2022
Non-project related construction activities in the adjacent construction sites were observed.	\checkmark	~	~	~

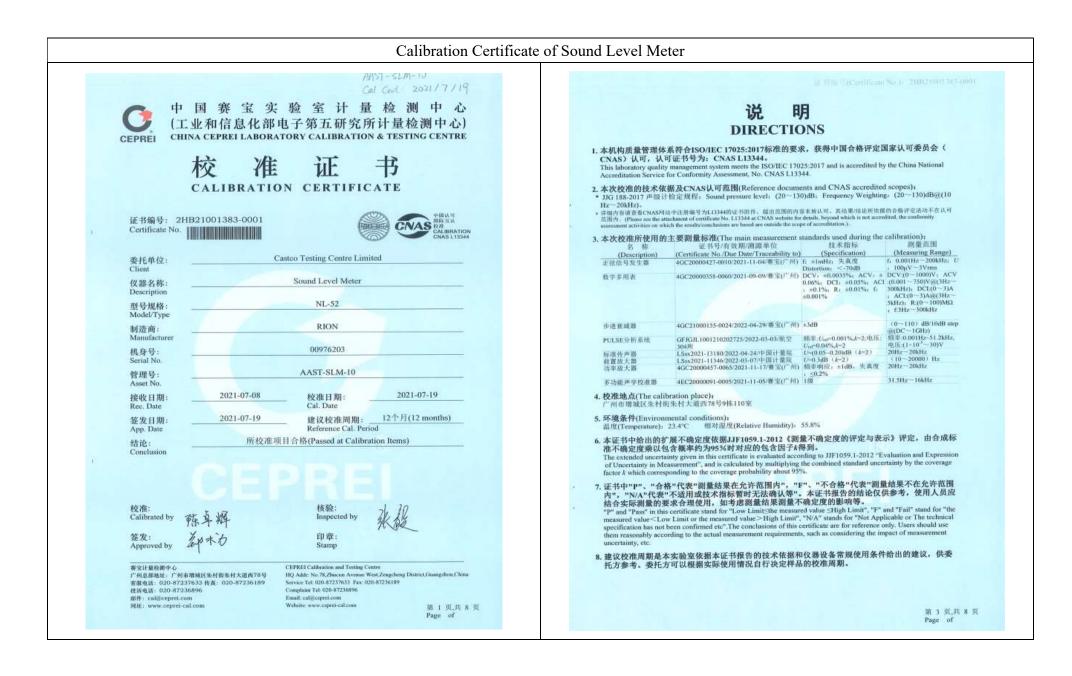
Appendix I – Event and Action Plan for air quality

		Ac	tion	
Event	ET	IEC	Supervisor / ER	Contractor
Action Level being exceeded by one sampling	 Identify source and investigate the causes of exceedance; Inform Contractor, IEC and Supervisor /ER; Repeat measurement to confirm finding. 	 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	1. Identify source and investigate the causes of exceedance;	 Check monitoring data submitted by ET; Check Contractor's 	1. Confirm receipt of notification of exceedance in writing;	1. Discuss with ET and IEC on proper remedial actions;
sampling	2. Inform Contractor, IEC and Supervisor /ER;	working method; 3. Discuss with ET and		2. Submit proposals for remedial actions to
	3. Increase monitoring frequency to daily;	Contractor on possible remedial measures;	IEC, agree with the Contractor on the remedial	Supervisor /ER and IEC within three working day
	4. Discuss with IEC and Contractor on remedial actions required;	4. Advise the Supervisor /ER on the effectiveness of the proposed remedial	measures to be implemented;4. Supervise implementation	of notification; 3. Implement the agreed proposals;
	5. Assess the effectiveness of Contractor's remedial actions;	measures.	of remedial measures;5. Conduct meeting with ET and IEC if exceedance	4. Amend proposal if appropriate.
	6. If exceedance continues, arrange meeting with IEC and Supervisor /ER;		continues.	
	7. If exceedance stops, cease additional monitoring.			
Limit Level being		1. Check monitoring data	1	1. Take immediate action to
exceeded by one sampling	investigate the causes of exceedance;	submitted by ET; 2. Check Contractor's	notification of exceedance in writing;	avoid further exceedance;2. Discuss with ET and IEC
	2. Inform Contractor, IEC, Supervisor / EP, and EPD;	working method;	 Notify Contractor; In consolidation with the 	on proper remedial
	Supervisor /ER, and EPD;Repeat measurement to confirm finding;	3. Discuss possible remedial measures with ET and Contractor;	3. In consolidation with the IEC, agree with the Contractor on the remedial	actions; 3. Submit proposal for remedial actions to
	4. Assess effectiveness of	4. Advise the Supervisor /ER	measures to be	Supervisor /ER and IEC

E (Ac	tion	
Event	ЕТ	IEC	Supervisor / ER	Contractor
	Contractor's remedial actions and keep EPD, IEC and Supervisor /ER informed of the results.	on the effectiveness of the proposed remedial measures.	 implemented; 4. Supervise implementation of remedial measures; 5. Conduct meeting with ET and IEC if exceedance continues. 	within three working days of notification;4. Implement the agreed proposals.
Limit Level being exceeded by two or more consecutive sampling	 Notify IEC, Supervisor /ER, Contractor and EPD; Repeat measurement to confirm findings; Carry out analysis of Contractor's working procedures to identify source and investigate the causes of exceedance; Increase monitoring frequency to daily; Arrange meeting with IEC, Supervisor /ER and Contractor to discuss the remedial action to be taken; Assess effectiveness of Contractor's remedial actions and keep EPD, IEC and Supervisor /ER 	 submitted by ET; Check Contractor's working method; 	 notification of exceedance in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise implementation of remedial measures; 	 Take immediate action to avoid further exceedance; Discuss with ET and IEC on proper remedial actions; Submit proposal for remedial actions to Supervisor /ER and IEC within three working days of notification; Implement the agreed proposals; Submit further remedial actions if problem still not under control; Stop the relevant portion of works as instructed by the Supervisor /ER until the exceedance is abated.
	 If exceedance stop, cease additional monitoring. 			

Appendix J – Calibration certificates, catalogue of noise monitoring equipment

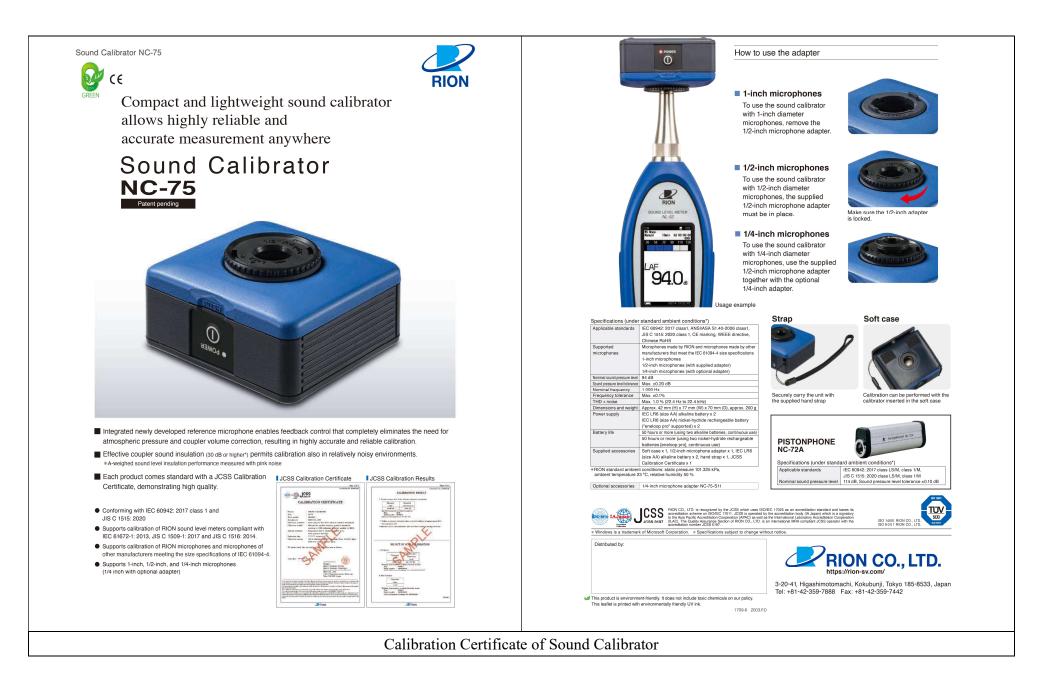
		Л	1					
		Å						
Spec	ifications	incode Titezo.	- 120.					
				Data r	recall memory		Allows viewing of stored data	an be saved in internal memory, for later recal
Applicable	e standards	NL-52	NL-42				Start up via file settings previou	
- approace.	o blandardo	ANSI S1.4-1983 Type 1	ANSI S1.4-1983 Type 2		orm recording e format	g*3	Uncompressed waveform WAV	Efile
		ANSI S1.4A-1985 Type 1 ANSI S1.43-1997 Type 1	ANSI S1.4A-1985 Type 2 ANSI S1.43-1997 Type 2	Sar	mpling freque	ncy	Select 48 kHz, 24 kHz or 12 kH	
		JIS C 1509-1: 2005 Class 1	JIS C 1509-1: 2005 Class 2		DC output		Select 24 bit or 16 bit Output DC signals using a frequence	cy weighting characteristic selected by processing
		WEEE Directives, Chinese RoHS (et	C, Low Voltage Directive 2006/95/EC), xport model for China only)		Output	voltage	2.5 V, 25 mV / dB at bar graph (display full scale
Measurer	ment functions	Simultaneous measurement of the for weighting and frequency weighting	ollowing items, with selected time		AC output		processing or by A, C, Z-weight	ency weighting characteristic selected by ting.
Proces	ssing (main ch)	Instantaneous sound pressure level:	Lp		Output		1 ∨ (rms values) at bar graph d Turns on when the open-collect	
		Equivalent continuous sound pressu Sound exposure level: Le	re level: Leq		output*2	.04	(max. applied voltage 24 V, max.	current 60 mA, allowable dissipation 300 mW)
		Maximum sound pressure level: Lma	x	USB			Allows USB to be connected to a Allows USB to be controlled via c	computer and recognized as a removable dis communication commands
		Minimum sound pressure level: Lmin Percentile sound levels: LN (0.1 to 99.	9 %, 0.1-increment steps, max. 5 values)	RS-23	32C commu			ation via use of a dedicated cable
	ssing (sub ch)	Instantaneous sound pressure level:	Lp		continuous of Instanta		Lp	
Additio	onal processing	In addition to main processing items for simultaneous processing:	, one of the following can be selected	dat	ta Proces	ssed value	Leq, Lmax, Lmin, Lpeak 100 ms	
		C-weighted equivalent continuous so C-weighted peak sound level: Lcpeak		Print o	utput interva out		Printing of measurement results	
		Z-weighted peak sound level: Lzpeak			r requireme ttery life (23			ne or rechargeable batteries) or external power supply Ni-MH secondary battery: 25 h
		I-time-weighted equivalent continuous : Maximum I-time-weighted equivalent continuous				, ()	At the maximum * Depends on	the setting
		The power average of the maximum lev	rel of each 5 second interval: LAtm 5		adapter temal powe	r voltage	NC-98C (NC-34 for previous me 5 to 7 V (rated voltage: 6 V)	odels cannot be used)
		The frequency weighting for the additional pro- of the sub-channel, so when the sub-channel h	essing synchronizes with the frequency weighting as A-weighting, LAtms can be selected.	Cu	irrent consu	mption	Approximately 90 mA (normal o	operation, rated voltage)
		When C-weighting (Z-weighting) is selected		Ambie conditi		perature idity	-10 to +50 °C 10 to 90 % RH (non-condensing	g)
Measurin	g time	(Lzprak) are selectable. 10 s, 1, 5, 10, 15, 30 m, 1, 8, 24 h, a	nd manual (maximum 24 h)	Dustp	roof / water-		IP code: IP54 (except for micro See precautions regarding wate	phone)
Microphone	Type Sensitivity level	UC-59 27 dB	UC-52 33 dB	Dimer	mance*4 nsions, weig		Approx. 250 (H) x 76 (W) x 33 m	nm(D), approx. 400 g (with batteries)
Measurer	ment range	A-weighting: 25 dB to 138 dB		Suppl	lied accesso	ories		5-10 x 1, Windscreen fall prevention rubber x 1, batteries x 4, SD card 512 MB×1 (NX-42EX
		C-weighting: 33 dB to 138 dB Z-weighting: 38 dB to 138 dB					preinstalled model only)	
		C-weighting peak sound level: 55 dE		Opti	ons			
Inherent	A-weighting	Z-weighting peak sound level: 60 dB 17 dB or less	19 dB or less	Exten	ded function		duct name m (Inst.on 512 MB SD card)	Product number NX-42EX
noise	C-weighting Z-weighting	25 dB or less 30 dB or less	27 dB or less 32 dB or less	Wave	form record	ting prog	ram*2 (Inst.on 2 GB SD card)	NX-42WR
Frequenc	y range	20 Hz to 20 kHz	20 Hz to 8 kHz				lysis program *2 (Inst.on 512 MB SD card) (Inst.on 512 MB SD card)	NX-42RT NX-42FT
Frequenc Time weig	y weighting	A, C, and Z F (Fast) and S (Slow)		Data r	managemen	t software	e for environmental measurement	AS-60
Level ran	ge	Single range (Linearity range: 113 df	3)				e for environmental measurement octave data management software)	AS-60RT
Switchin	oh display range max g of bar graph display	Set the upper/ lower limit in 10 dB in	crements.	(Inclu	ides the vibi	ration lev	e for environmental measurement rel data management software)	AS-60VM
RMS dete Sampling	ection circuit	Digital processing method 20.8 µs (Lp, Leq, LE, Lmax, Lmin, Lpeak	: sampling frequency: 48 kHz)		oform analys ard 512 MB		are	CAT-WAVE SD-512M
		100 ms (LN)		SD C	ard 2 GB dapter (100		110	SD-2G NC-98C
Calibratio	n	Measurement Law: electrical calibration pr using internally generated signals: acousti	erformed according to IEC and JIS standards, c calibration performed with the NC-74.		dapter (100 ry pack	V t0 240		NC-98C BP-21
Correction	n functions	Windscreen correction:	9-1 standards when the windscreen is installed.		phone exte Pin output o		bles	EC-04 (from 2 m) CC-24
		Diffuse sound field correction:	or i atomatras when the willascreen is installed.	Comp	parator outp			CC-42C
		Correction of frequency characteris (ANSI S1.4) in diffuse sound field.	tics in order to comply with standards	Printe	er er cable			DPU-414 CC-42P
Delay tim	e	The meter can be set to start measuring	ng a specified time (OFF, 1, 3, 5 or 10 s)		32C serial 1	/O cable		CC-42R
Back eras	se function	after the start button has been presse When the PAUSE key is pressed to	d or when a user-set trigger is exceeded. pause measurement, the preceding		cable d calibrator			 NC-74
		(user selectable) 0, 1, 3 or 5 s data a	are excluded from processing.	y at the	eather wind screen mou	Joroon	anter	WS-15 WS-15006
Display		Backlit semitransparent color TFT LC * LCD with touch panel (Capacitive	Touch Panel)	Rain-	protection v	vindscree	en	WS-16
Store	anual		Bar graph update frequency: 100 ms ad manually in single address increments.		d level mete		ipod	ST-80 ST-81
EE	Number of data	Internal memory: max. 1000 sets		*1Use	e Rion fully gu	aranteed		separately). *3 NX-42WR required (sold separatel
	Ito*2	SD Card: depends on the capacity of Instantaneous values (Lp mode) and		Preca	utions rega	arding w	aterproofing	
		stored continuously and automatical					ubber bottom cover and the battery just proof rating, internal packing rep	compartment lid are firmly closed. placement is required every two years (at cost)
	Lp sampling cycle Leg sampling cycle							
		Max. 1000 h (depends on the capac	ity of the SD Card)*1					ISO 14001
		rk of Microsoft Corporation.						ISO 14001 RION CO., LTD.
Specific	ations subject	to change without notice.						ISO 9001 RION CO., LTD.
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							7888 Fax: +81-42-	
bie group	unt la section	nent-friendly. It does not include to	via alternationale autorementario					



C.		证书编号(Certifical	e No.): 2HB2100138	3-0001	CEPREI			证书编号	f(Certificate No.);	2HB2100138	3-0001
EPHEI					4 A计权特性(A-	Weighting Cha	racteristic)				
外观与工作正常性检查(/		heck)			频率	实测值	理论值	误差	允许误差	结论	U
	果准确度的因素和缺陷。		the contificate		(Frequency)	(Actual)	(Theoretical value)	(Error)	(Limit)	(Pass/Fail)	(k=2)
There are no factor and	d defect that affect the mea	surement result accuracy of	un certificate.		(Hz)	(dB)	(dB)	(dB)	(dB)	(P/F)	(dB)
: 指示声级调整 (Indication	Collingian)		频率(Frequency)=10	00Hz	20	-49.2	-50.5	1.3	±2.0	Р	0.5
传声器型号	在声器编号	放大器型号	 Section 1 (1995) 1995 (1997) 		25	-44.2	-44.7	0.5	+2.0 ~ -1.5	Р	0.5
Microphone Type)	(Microphone SN.)	(Preamplifier T			31.5	-39.4	-39.4	0.0	±1.5	Р	0.5
UC-59	15764	NH-25	76321		40	-34.4	-34.6	0.2	±1.0	Р	0.5
					50	-30.3	-30.2	-0.1	±1.0	Р	0.5
声校准器型号	标准声压级	校准前示值	校准后示值	U	63	-26.0	-26.2	0.2	±1.0	р	0.5
(Calibrator Type)	(Reference SPL)	(Before Calibration)	(After Calibration)	(k=2)	80	-22.4	-22.5	0,1	±1.0	Р	0.5
1999 1997 1997 1997 1997 1997 1997 1997	(dB)	(dB)	(dB)	(dB)	100	-19.1	-19.1	0.0	±1.0	Р	0.5
4226	94.0	94.1	94,1	0.2	125	-16.0	-16.1	0.1	±1.0	Р	0.5
					160	-13.2	-13.4	0.2	±1.0	р	0.5
3 假线性 (Level Linearity)					200 250	-10.8	-10.9	0.1	±1.0	Р	0.5
3.1 参考级量程 (Reference	Range)	資率(Frequency): 8000Hz			315	-8.6	-8.6	0.0	±1.0	Р	0,5
		缀(Sound Level Indication o			400	-6.6	-6.6	0.0	±1.0	P	0.4
起始点以上间隔100	B点的最大误差(Maximu	m Error for each 10dB abov			500	-4.7	-4.8 -3.2	0.1	±1.0	Р	0.4
			U (k=2) 0.6 d		630	-1.9	-3.2	-0.1	±1.0	P	0.4
上限以下5dB间隔1dB点	的最大误差(Maximum En	ror for each 1dB below Upp			800	-0.8	-0.8	0.0	±1.0 ±1.0	P	0.4
and the first second second second	to that the Lot share of	r r 1 10 m 1 1	U (k=2) 0.6 d w Start Point): -0.2 d		1000(Ref.)	0.0	0.0	0.0	±0.7	P	0.4
起始点以下回顾100	B点的最大能差(Maximu	m Error for each 10dB belo	U (k=2) 0.6 d		1250	0.5	0.6	-0.1	±1.0	P	0.6
THE LEADER NO.	ob 88-1-151 35/34 featiments Err	ror for each 1dB above Low			1600	0.9	1.0	-0.1	±1.0	p	0.6
L MS FY T'20 DHOM LOD FY	al at 1/2 for set of a running run	for for each rub above Low	U (k=2) 0.6 d		2000	1.1	1.2	-0.1	±1.0	p	0.6
			INSTRUCTION AND A		2500	1.0	1.3	-0.3	#1.0	Р	0.6
3.2 其它级量程 (Other Ran	uge)	频率(Frequency): 1000Hz			3150	0.9	1.2	-0.3	±1.0	р	0.6
The second second second second		级(Sound Level Indication	of Start Point): 90.0 d	в	4000	1.2	1.0	0.2	±1.0	Р	0.6
起始点以上间隔10		im Error for each 10dB abov			5000	0.3	0.5	-0,2	±1.5	Р	0.6
I FEATON GEO GUIDINES			U (k=2) 0.4 d		6300	-0.3	-0.1	-0.2	+1.5 ~ -2.0	Р	0.6
上限以下5dB间隔1dB点	的最大误差(Maximum En	ror for each 1dB below Upp	er Limit 5dB): -0.1 d	1B	8000	-0.6	+1.1	0.5	+1.52.5	Р	0.6
			U (k-2) 0.4 d	iB	10000	-2.4	-2.5	0.1	+2.03.0	Р	0,6
起始点以下间隔10	dB点的最大误差(Maximu	im Error for each 10dB belo	w Start Point): -0.1 d	iB	12500	-4.3	-4.3	0.0	+2.0 ~ -5.0	Р	1.0
			U (k=2) 0.4 d	IB	16000	-8.5	-6.6	-1.9	+2.516.0	Р	1.0
下限以上5dB间隔1dB点	的最大误差(Maximum En	ror for each 1dB above Low			20000	-18.5	-9.3	-9.2	+3.0 ~	Р	1.0
			U (k=2) 0.4 d	IB							
	数据页(Data s	sheet) ID: 071288	加 5 1	页,共 8 页	第 6 页,共 8 页		数据页(Data she	et) ID: 07			

S CPURUP CPURUP READ READ CPURUP CPURUP READ READ <th>C</th> <th></th> <th></th> <th>证书编号</th> <th>Certificate No.):</th> <th>2HB21001383</th> <th>3-0001</th> <th>CEPREI</th> <th></th> <th>证书编号(Certificate No.): 2HB21001383-0001</th>	C			证书编号	Certificate No.):	2HB21001383	3-0001	CEPREI		证书编号(Certificate No.): 2HB21001383-0001
New (Preperency (Preperency)New (Acua)Orace (Dreovital value)Orace (Orace (Orace)		eighting Cha	nacteristic)							
(Actual) (Hereid) (Hereid)				误差	允许误差	结论	U			
dlb (dlb) (dlb) (dlb) (dlb) (dlb) (dlb) (dlb) 20 4.6 4.2 4.4 4.4 4.2 P 0.5 25 4.5 4.4 4.1 420 -1.5 P 0.5 30 4.1 4.1 420 -1.5 P 0.5 30 4.1 0.0 4.10 P 0.5 30 4.2 0.3 4.10 P 0.5 30 0.5 0.5 0.6 4.10 P 0.5 30 0.5 0.5 0.6 4.10 P 0.5 315 0.1 0.1 1.10 P 0.5 320 0.1 0.1 1.10 P 0.5 320 0.2 0.3 0.1 1.10 P 0.5 320 0.0 0.0 0.10 P 0.5 320 0.0 0.0 0.1 1.10 P 0.4 400 0.1 0.0 0.1 P 0.4 400 0.1 0.0 0.1 P 0.4 400 0.0 0.1 1.10 P 0.6 100004c	(Frequency)	(Actual)	(Theoretical value)	(Error)	(Limit)	(Pass/Fail)	(k=2)	(Weighting)		
20 -6.6 -6.2 -0.4 -2.0 P 0.5 25 -4.5 -3.4 -0.1 +1.5 P 0.5 11.5 -2.9 -3.0 0.1 +1.5 P 0.5 40 -1.3 -1.3 0.0 +1.0 P 0.5 50 -1.3 -0.3 0.0 +1.0 P 0.5 50 -0.5 -0.5 0.0 +1.0 P 0.5 100 -0.2 -0.3 0.1 +1.0 P 0.5 110 -0.1 -0.1 -0.1 1.0 P 0.5 120 -0.1 -0.1 -0.0 +1.0 P 0.5 120 -0.1 -0.1 -0.0 +1.0 P 0.5 1315 0.0 0.0 0.0 +1.0 P 0.4 1000004cr) 0.0 0.0 +1.0 P 0.4 1000004cr) 0.0 0.0 +1.0 P 0.6 1000004cr) 0.0 -0.1		(dB)	(dB)	(dB)	(dB)	(P/F)	(dB)			
31.5 -2.9 -3.0 0.1 +1.5 P 0.5 40 -1.9 -2.0 0.1 +1.0 P 0.5 50 -1.3 -1.3 0.0 +1.0 P 0.5 63 -6.7 -6.8 0.0 -1.0 P 0.5 100 -0.2 -0.3 0.1 +1.0 P 0.5 120 -0.1 -0.1 +1.0 P 0.5 120 -0.1 -0.2 -0.1 +1.0 P 0.5 200 0.0 0.0 -1.0 P 0.5 200 0.0 0.0 -1.0 P 0.5 315 0.0 0.0 -1.0 P 0.4 400 0.1 0.0 -1.0 P 0.4 300 0.0 0.0 -1.0 P 0.6 300 0.0 0.0 -1.1 1.0 P 0.6 2000 -3.4 -3 -1.10 P 0.6 3150 <td< td=""><td>20</td><td>-6,6</td><td>-6.2</td><td>-0.4</td><td>±2.0</td><td>Р</td><td>0.5</td><td>Α.</td><td>13.3</td><td></td></td<>	20	-6,6	-6.2	-0.4	±2.0	Р	0.5	Α.	13.3	
13. 2.9 3.0 0.1 4.15 P 0.5 40 1.9 2.0 0.1 4.10 P 0.5 50 1.3 0.3 0.0 4.10 P 0.5 63 0.47 0.8 0.1 4.10 P 0.5 100 0.2 0.3 0.1 4.10 P 0.5 100 0.2 0.3 0.1 4.10 P 0.5 100 0.2 0.3 0.1 4.10 P 0.5 100 0.1 0.1 0.1 1.10 P 0.5 200 0.0 0.0 4.10 P 0.4 300 0.0 0.0 4.10 P 0.4 300 0.0 0.0 4.10 P 0.4 300 0.0 0.0 4.10 P 0.4 10000000 0.4 0.0 9.0 9.0 1000000 0.4 0.0 9.0 9.0 1000000 0.4 0.	25	-4.5	-4.4	-0.1	+2.01.5	Р	0.5	W/N/9/FUND data	himalter	
b0 1.3 -1.3 0.0 4.0 P 0.3 63 -0.7 -0.8 0.1 4.10 P 0.5 100 -0.2 -0.3 0.0 4.10 P 0.5 100 -0.2 -0.3 0.1 4.10 P 0.5 123 -0.1 -0.2 0.1 4.10 P 0.5 200 0.0 0.0 4.10 P 0.4 300 0.0 0.0 4.10 P 0.4 500 0.0 0.0 4.10 P 0.4 10000Ref 0.0 0.0 4.10 P 0.4 10000Ref 0.1 0.0 4.10 P 0.6 10000Ref 0.4<	31.5	-2.9	-3.0	0.1	±1.5	Р	0.5	and a straight and another		
63 0.7 0.8 0.1 4.10 P 0.5 80 0.5 0.3 0.0 4.10 P 0.5 100 0.5 0.3 0.1 4.10 P 0.5 125 0.1 0.2 0.1 4.10 P 0.5 126 0.1 0.1 0.0 4.00 P 0.5 200 0.0 0.0 4.00 P 0.5 215 0.0 0.0 4.00 P 0.5 315 0.0 0.0 4.00 P 0.4 500 0.0 0.0 4.00 P 0.4 600 0.0 0.0 4.00 P 0.4 1000(Ref.) 0.0 0.0 4.00 P 0.4 1250 0.1 0.1 4.00 P 0.6 3150 0.8 0.5 0.3 4.0 P 0.6 3150 <	40	-1.9	+2.0	0.1	±1.0	Р	0.5			
80 -0.5 0.0 41.0 P 0.5 100 -0.2 -0.3 0.1 41.0 P 0.5 125 -0.1 -0.2 0.1 1.10 P 0.5 160 -0.1 0.0 41.0 P 0.5 200 0.0 0.0 41.0 P 0.5 215 0.0 0.0 41.0 P 0.5 215 0.0 0.0 41.0 P 0.5 315 0.0 0.0 41.0 P 0.4 500 0.0 0.0 41.0 P 0.4 500 0.0 0.0 41.0 P 0.4 600 0.0 0.0 41.0 P 0.4 1000ReL 0.0 0.0 40.7 P 0.6 1250 0.1 0.1 41.0 P 0.6 3150 0.6 3.2 0.3 41.0	50	-1:3	-1.3	0.0	±1.0		0.5			
100 -0.2 -0.3 0.1 ±1.0 P 0.5 125 -0.1 -0.2 -0.1 ±1.0 P 0.5 160 -0.1 -0.0 0.0 -0.0 -0.5 200 0.0 0.0 -0.0 -0.1 -0.5 215 0.0 0.0 -0.1 P 0.5 315 0.0 0.0 -1.0 P 0.4 400 0.1 0.0 -1.0 P 0.4 500 0.0 0.0 ±1.0 P 0.4 630 0.0 0.0 ±1.0 P 0.4 630 0.0 0.0 ±1.0 P 0.4 10000Ref. 0.0 0.0 ±0.7 P 0.4 1250 -0.1 -0.1 ±1.0 P 0.6 2000 -0.3 ±0.2 ±1.0 P 0.6 3150 -0.8 0.5 ±1.5 - 2.5	63	-0.7	-0.8	0.1	±1.0	Р	0.5			
Not Not Not Not 125 0.1 0.2 0.1 1.0 P 0.5 200 0.0 0.0 0.0 41.0 P 0.5 250 0.0 0.0 0.0 41.0 P 0.5 315 0.0 0.0 0.0 41.0 P 0.5 300 0.0 0.0 41.0 P 0.5 600 0.0 0.0 41.0 P 0.4 600 0.0 0.0 41.0 P 0.4 600 0.0 0.0 41.0 P 0.4 1000(Ref.) 0.0 0.0 41.0 P 0.4 1200 0.1 0.0 41.0 P 0.6 1200 0.3 4.0 P 0.6 3150 0.4 0.5 0.6 3000 -1.6 1.1 P 0.6 6000 -2.1	80	-0.5	-0.5	0.0	±1.0		0.5			
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16000 -10.5 -8.5 -2.0 +2.516.0 P 1.0			-4.4	0.1	+2.0 ~ -3.0	P	0.6			
		-6.3	-6.2	-0.1	+2.05.0	Р	1.0			
20000 -20.4 -11.2 -9.2 +3.0 ~m P 1.0	16000	-10.5	-8.5	-2.0	+2.5 ~ -16.0	Р	1.0			
	20000	-20.4	-11.2	-9.2	$+3.0 \sim -\infty$	Р	1.0			

	说明 DIRECTIONS		
CNAS) This labo	赴管理体系符合ISO/IEC 17025:2017标准的要求,获得 可,认可证书号为: CNAS L13344。 ory quality management system meets the ISO/IEC 17025:2017 a service for Conformity Assessment, No. CNAS L13344.		
■ JJG 188- Hz~20kl ● 準個内容弱	的技术依据及CNAS认可范围 (Reference documents and C 17 声级计检定规程: Sound pressure level: (20~130)dB: Fre)。 6 CNAS网站中注册编号为L13344的证书附件, 超出范围的内容未被认可, as see the attachment of certificate No. L13344 at CNAS website for details, bsy- vities on which the results/conclusions are based are outside the scope of accredit vities on which the results/conclusions are based are outside the scope of accredit	equency Weighting: (20~130)dB@(10 , 其结果/结论所依据的合格评定活动不在认可 and which is not accredited, the conformity	
		技术指标 测量范围	
(De 数字多用	4GC20000467-0001/2021-11-26/赛宝(广州) DCV: ±0 0.06%: D	DCI: ±0.05%; ACI :(0.001~750)V@(3HZ~ R: ±0.01%; ft 300kHz); DCI:(0~3)A ; ACI:(0~3)A@(3HZ~ 5kHz); R:(0~100)MΩ	
		: f:3Hz~300kHz z. 失直度 f: 0.001Hz~200kHz; U	
正弦信号 标准传声	Distortion	: <-70dB : 100µV∼5Vrms 0.20)dB (<i>k</i> =2) 20Hz~20kHz	
新 電 版 大 PULSE分	LSsx2021-13000/2022-04-19/中国计量院 U=0.3dB 系统 4GC21000026-0375/2022-01-21/赛宝(广州) 频率:Uref	(k=2) (10~50000) Hz -0.001%,k=2;电压: 频率:0.001Hz~51.2kHz,	
声级校准	Ure=0.049	地压:(1×10 ⁻⁵ ~30)V 94dB,114dB@(1000Hz	
功率放大	4GC20000457-0065A/2021-11-17/赛宝(广 频率响应 州) : <0.2%) : ±1dB, 失真度 20Hz~20kHz	
步进衰减		(0~110) dB/10dB step @(DC~1GHz)	
声校准器	4GC20000502-0050/2021-12-21/赛宝(广州) 1级 First I		
4. 校准地。 广州市坦	The calibration place): i区朱村街朱村大道西78号9栋110室		
5. 环境录 、 温度(Ter	Environmental conditions): erature): 23.9°C 相对湿度(Relative Humidity): 55.8%		
准不确 The exte of Unce	台出的扩展不确定度依据JJF1059.1-2012《测量不确定 变乘以包含概率约为95%时对应的包含因子&得到。 d uncertainty given in this certificate is evaluated according to JJ nty in Measurement ^{**} , and is calculated by multiplying the combit ch corresponding to the coverage probability about 95%.	F1059.1-2012 "Evaluation and Expression	
内"," 结合互义 "P" and measure	"、"合格"代表"测量结果在允许范围内","F"、"不1 A"代表"不适用或技术指标暂时无法确认等"。本证书 例量的要求合理使用,如考虑测量结果测量不确定度的 ss" in this certificate stand for "Low LimitSthe measured value ≥ alue < Low Limit or the measured value > High Limit", "NA" as a has not been confirmed etc". The conclusions of this certificate ably according to the actual measurement requirements, such as o etc.	报告的结论仅供参考,使用人负应 内影响等。 High Limit", "F" and "Fail" stand for "the unds for "Not Applicable or The technical are for reference only. Users should use	
		第3页共8页	
		第 5 贝,天 8 贝 Page of	





Cal	bration	Certificate of	Sound	Calibra	tor	
CEPREI		证书编	扇号(Certificate	No.): 2HB210	01749-0002	
无影响证书	中校准结果准确度	uce and Function Check) 定的因素和缺陷。 that affect the calibration resu	It accuracy of the	certificate.		
2 声压级 (Sound	ressure Level)					
规定声压级 (Prescribed SPL) (dB) 94	測量声压级 (Measured SPL) (dB) 94.12	声压级差的绝对值 (Absolute value of SPL) (dB) 0.12	允许范围 (Limit) (dB) ≤0.40	结论 (Pass/Fail) P	U (k=2) (dB) 0.10	
3 频率 (Frequenc)					
规定频率 (Prescribed Fre.) (Hz) 1000	测量频率 (Measured Fre.) (Hz) 1000.0	频率误差的绝对值 (Absolute value of Fre.) (%) 0.00	允许范围 (Limit) (%) ≤1.00	结论 (Pass/Fail) P	Urel (k=2) (%) 0.10	
4. 总失真 (Distor	on)					
规定声压级 (Prescribed SPL (dB) 94	规定频率 (Measured Fre.) (Hz) 1000	总失真 (Distortion) (%) 0.15	允许范围 (Limit) (%) ≤3.00	结论 (Pass/Fail) P	Urel (k=2) (%) 5.0	
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				ie kriter H		
		数据页(Data sheet) II	9: 013393		育 5 页,共 5 页 age of	

Catalo	ogue of Air Flow	v Meter (TSI T	A440)		Cal	ibration	Certificat	e of Air	Flow Me	ter
									AAST	-FLOW-03, C	l=25 Jan 202
SPECIFICATION							Callabi	imited 校正實	「輪索有限公	T annun	
THERMAL ANEMO MODELS TA410, T.						CALIBRATION	Room 2103, T Tsuen Wan, N	echnology Plaza, 29-3 T, Hong Kong 680106 Email: info	5 Sha Tsui Road,	Hac-MBA	ACCREDITED Certifiate #3815.01
Velocity Range (TA410) Range (TA430, TA440) Accuracy (TA410) ¹⁶² Accuracy (TA430, TA440) ¹⁴ Resolution	0 to 20 m/s (0 to 4,000 ft/min) 0 to 30 m/s (0 to 5,000 ft/min) ±5% of reading or ±0.025 m/s (±5 ft/min), whichever is greater 23% of reading or ±0.015 m/s (±3 ft/min), whichever is greater 0.01 m/s (1 ft/min)	Time Constant (T User selectable External Meter Di 8.4 cm x 17.8 cm x 4 Meter Weight with	imensions 4.4 cm (3.3 in. :)	Address: 33 C Equipment Identific	on co Testing Centre Li n Kui Street, Fanlin ation	mited g, N.T., Hong Kong	. Serial No	۵۹۵۱	ned equipment No
		0.27 kg (0.6 lbs.)				Equipment Descript Air Velocity Meter	on Manufact TSI	TA440	. Serial No TA440170		-FLOW-03
Duct Size (TA430, TA44 Dimensions	1 to 635 cm in increments of 0.1 cm (1 to 250 inches in increments of 0.1 in.)	Meter Probe Dime Probe Length Probe Diameter of 7 Probe Diameter of 1	101.6 Tip 7.0 m	i cm (40 in.) ım (0.28 in.) nm (0.51 in.)		Certificate Informat Date of Receipt:	ion 21 Januar		Calibration C Adjustment:	ondition: 24.3°C, N/A	53%RH, 1008hPa
Volumetric Flow Rate (Range	Actual range is a function of velocity.	Articulating Prob	e Dimension	s		Date of Calibration: Due Date of Calibra	25 Januar tion: N/A	y 2022	Appearance:	Good	
<u>.</u>	and duct size	Articulating Section Length		em (7.8 in.)		Calibration Procedu			Remark:	N/A	
Temperature Range (TA410, TA430) Range (TA440) Accuracy ³ Resolution	-18 to 93°C (0 to 200°F) -10 to 60°C (14 to 140°F) ±0.3°C (±0.5°F) 0.1°C (0.1°F)	Diameter of Articulating Knuckle Power Requireme Four AA-size batter	ents	ım (0.38 in.) oter		Reference Equipmo Equipment Descrip Hot Wire Anemom	ion	Model 9535	Serial No. T9535131600		ration Date uly 2022
Relative Humidity (TA4			TA410	TA430, TA430-A	TA440,	Result of Calibratic	n				
Range Accuracy4	5 to 95% RH ±3% RH	Velocity range 0 to 20.00 m/s	17410	TA430-A	TA440-A	Air Flow Rate Reference	Measured		Uncertainty	Technical	Technical
Resolution	0.1% RH	(0 to 4000 ft/min) Velocity range	+			Reading (m/s)	Reading (m/s)	Error (%)	(%FS)	Requirement	Reference Doc
Wet Bulb Temperature		0 to 30.00 m/s (0 to 6000 ft/min)		+	+	0.00	0.00	N/A -2.0	3.6	± 3% ± 3%	Mfr's Spec. Mfr's Spec.
Range Resolution	5 to 60°C (40 to 140°F) 0.1°C (0.1°F)	Temperature	+	+	+	5.02	4.89	-2.6	3.6	± 3%	Mfr's Spec. Mfr's Spec.
Dew Point (TA440 only	0	Flow		+	+	10.03	10.05	2.0	3.6	± 3%	CT-A
Range	-15 to 49°C (5 to 120°F)	Humidity, wet bulb, dew point			+						
Resolution	0.1°C (0.1°F)	Probe	Straight	Straight or -A articulated	Straight or -A articulated						
Instrument Temperatu Operating (Electronics)	re Range 5 to 45°C (40 to 113°F)	Variable time constant		+	+						
Model TA410, TA430 Operating (Probe)	-18 to 93°C (0 to 200°F)	Manual data logging		+	+						
Model TA440	-10 to 60°C (14 to 140°F)	Auto save data logging			+						
Operating (Probe) Storage	-20 to 60°C (-4 to 140°F)	Statistics		+	+						
Data Storage Capabiliti		Review data		+	+						
Data Storage Capabiliti Range	es (TA430, TA440) 12,700+ samples and 100 test IDs	LogDat2 downloading		+	+	Note1: The estimated expand	ed uncertainties have been	calculated in "Evaluation and	expression of uncertainty in	measurement" and give an in	ternal estimated to have a
Logging Interval (TA43	0. TA440)	software		+		of confidence of 95%	A coverage factor of 2 is ass	sumed unless explicitly stated. pration are traceable to nation			
1 second to 1 hour		Free Certificate of Calibration	+	+	+	annument and cool co	ulition	condition of the instrument o			
Specifications subject to change with	rout notice.	¹ Temperature compensated				instrument		te only to the item calibrated,			
TSI and the TSI logo are registered tra the Airflow logo and LogDat2 are tra	ademarks, and Airflow, demarks of TSI Incorporated.	² The accuracy statement be for the Model TA410, and 3 Models TA420 and TA400	30 ft/min through 6.	rough 4000 ft/min (0 ,000 ft/min (0.15 m/s	.15 m/s through 20 m/s) hrough 30 m/s) for					(h)	
	FLOW [®]	Models TA430 and TA440. ³ Accuracy with instrument for change in instrument ⁴ Accuracy with probe at 25 change in probe temperatu	case at 25°C (77°E).	add uncertainty of 0. tainty of 0.2% RH/°C teresis.	13°C/°C (0.05°F/°F) (0.1% RH/°F) for	Calibrated By:	lo	ked and Approved I MW / ed ren Yeung		ny Chop: 校正 教授 教授 教授 教授 教授 教授 教授 教授 教授 教授	lanuary 2022
Airflow Instruments, TSI In Visit our website at www.ai	istruments Ltd. rflowinstruments.co.uk for more informat	ion.				Rex Tse	warr	en reung	Certini	are issue pare. 25	CT-E
UK Tel: +44 149 4 4 France Tel: +33 491 11	459200 Germany Tel: +49 241 52303	30						*** End of (Certificate ***		
P/N 2980548 Rev D (A4)	©2014 TSI Incorporated					1. The certificate sha	Il not be reproduce	d except in full, witho latest Terms and Cor	out written approval	of Cal Lab Calibratio	n CCO3322 Page 1 of

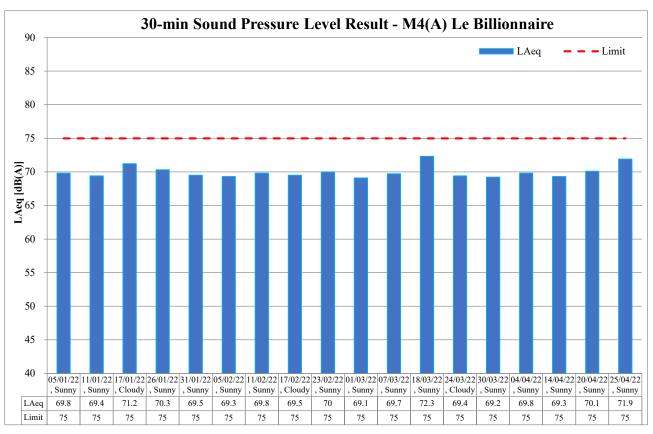
Appendix K – Noise monitoring results and graphical presentation

M4(A) – Le Billionnaire

	Temp	XX7 (1			Measured	l Noise Lev	el at M4(A	.), dB(A)		T · · ·
Date	(°C)	Weather]	Time			L_{Aeq}	L _{A10}	L _{A90}	Limit
04/04/2022	25.6	Sunny	13:15	-	13:45	69.5	69.8	71.4	68.2	75
14/04/2022	31.5	Sunny	9:05	-	9:35	69.5	69.3	71.0	67.5	75
20/04/2022	25.5	Sunny	9:15	-	9:45	69.5	70.1	72.2	68.6	75
25/04/2022	31.6	Sunny	15:26	-	15:56	69.5	71.9	74.7	68.7	75
					Maximum		71.9			
					Minimum		69.3			
					Average		70.4			

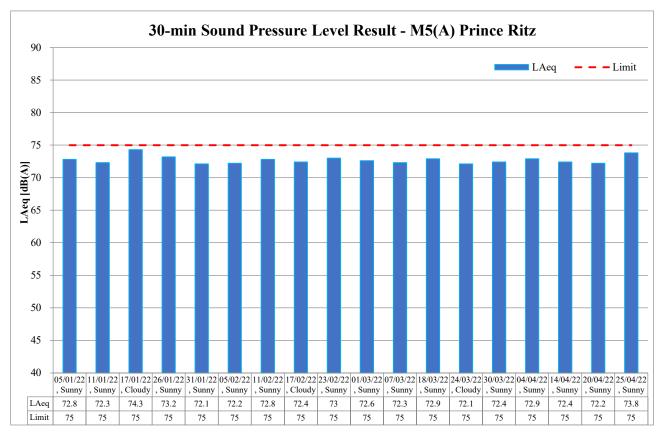
M5(A) – Prince Ritz

D (Temp	XX 7 (1	Measured Noise Level at M5(A), dB(A)										
Date	(°C)	Weather	Time			Baseline	L_{Aeq}	L _{A10}	L _{A90}	Limit			
04/04/2022	25.6	Sunny	14:30	-	15:00	72.5	72.9	74.3	70.2	75			
14/04/2022	31.5	Sunny	10:20	-	10:50	72.5	72.4	73.9	69.6	75			
20/04/2022	25.5	Sunny	10:25	-	10:55	72.5	72.2	73.6	69.4	75			
25/04/2022	31.6	Sunny	14:17	-	14:47	72.5	73.8	75.3	71.9	75			
]	Maximum		73.8						
					Minimum		72.2						
					Average		72.9						



LAeq, 30-min graphical results of M4(A) – Le Billionnaire

LAeq, 30-min graphical results of M5(A) - Prince Ritz



		Reportir	ng Period	
Major Construction Activities	Jan	Feb	March	April
	2022	2022	2022	2022
Bored pile works for landscape elevated walkway	✓	✓		
Instrumentation installation at SB-01	✓			
Pre-drilling work for S14	✓			
Removal existing piles at Road D1	✓			
Rising main construction	✓			
Trial pit excavation	✓			
Advance works for traffic diversion at Sa Po Road	✓			
Drainage works for Pedestrian Street No.1, No,2 & No.3	✓			
Construction of Crowd Dispersal Route	✓	✓	✓	\checkmark
ELS and excavation at Pier 9 and Pier 10 for Elevated Walkway LW-02		✓		
ELS and excavation at Pier 9 for Elevated Walkway LW-02				\checkmark
Underground utility diversion works at Sa Po Road		✓	✓	\checkmark
ELS and excavation at launching shaft for subway SB-01		✓	✓	\checkmark
Drainage works for Pedestrian Street No.1, No.2 No.3 & No.4		✓		
Construction of DCS		✓	✓	\checkmark
Construction works for Road L16		✓	✓	\checkmark
Pre-bored socket H-piles construction for Subway KS10		✓	✓	
Twin rising mains diversion works		✓		
Renovation works for existing subways KS9 and KS32		✓	✓	\checkmark
Post-pilling tests for PC11 for Elevated Walkway LW-02			✓	
ELS and excavation at Pier 9 for Elevated Walkway LW-02			✓	
Pile cap construction for PC9 and PC10 for Elevated Walkway LW-02			✓	\checkmark
Construction works for Pedestrian Street No. 1, No. 2, No. 3 & No. 4			 ✓ 	\checkmark
Post-pilling tests for H-piles at Subway KS10			 ✓ 	\checkmark
Erection of temporary decking across existing Kai Tak River				\checkmark
ELS and excavation for Subway KS10 Lift and Staircase				\checkmark
Demolition works to existing subway KS10 staircase and ramp				\checkmark

	Reporting Period						
Factors might affect the monitoring results	Jan 2022	Feb 2022	March 2022	April 2022			
Non-project related construction activities in the adjacent construction sites were observed.	~	~	~	~			

Appendix L – Event and Action Plan for noise

E		Act	tion	
Event	ЕТ	IEC	Supervisor / ER	Contractor
Action Level being exceeded	 Notify Supervisor / ER, IEC and Contractor; Carry out investigation; Report the results of investigation to the IEC, Supervisor / ER and Contractor; Discuss with the IEC and Contractor on remedial measures required; Increase monitoring frequency to check mitigation effectiveness. (The above actions should be taken within 2 working days after the exceedance is identified.) 	 Review the investigation results submitted by the ET; Review the proposed remedial measures submitted by the Contractor and advise the ER accordingly; Advise the Supervisor / ER on the proposed remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified.) 	3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;	 Submit noise mitigation proposal to IEC and Supervisor / ER; Implement noise mitigation proposals. (The above actions should be taken within 2 working days after the exceedance is identified.)
Limit Level being exceeded	 Inform IEC, Supervisor /ER, Contractor and EPD; Repeat measurement to confirm findings; Increase monitoring frequency; Identify source and investigate the cause of exceedance; Carry out analysis of Contract's working procedure; Discuss remedial measures required with the IEC, Contractor and Supervisor /ER; Assess effectiveness of 	 Discuss the potential remedial actions with Supervisor /ER, ET and Contractor; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the Supervisor /ER accordingly. (The above actions should be taken within 2 working days after the exceedance is identified.) 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures; If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC and Supervisor /ER within 3 working days of notification; Implement the agreed proposal; Submit further proposal if problem still not under control; Stop the relevant portion of works as instructed by the Supervisor /ER until the exceedance is abated. (The above actions should be

Event	Action									
Event	ЕТ	IEC	Supervisor / ER	Contractor						
	Contractor's remedial		exceedance until the	taken within 2 working days						
	actions and keep IEC,		exceedance is abated.	after the exceedance is						
	EPD, and Supervisor /ER		(The above actions should be	identified.)						
	informed of the results;		taken within 2 working days after							
	8. If exceedance stops, cease		the exceedance is identified.)							
	additional monitoring.									
	(The above actions should be									
	taken within 2 working days									
	after the exceedance is									
	identified.)									

Appendix M – Event and Action Plan for Landscape and Visual Impact

Event		Act	tion	
Event	ЕТ	IEC	Supervisor / ER	Contractor
Design Check	1. Check final design conforms to the requirements of EP and prepare report.	 Check report. Recommend remedial design if necessary. 	1. Undertake remedial design if necessary.	
Non-conformity on one occasion	 Identify Source. Inform IEC and Supervisor /ER. Discuss remedial actions with IEC, Supervisor /ER and Contractor. Monitor remedial actions until rectification has been completed. 	 Check report. Check Contractor's working method. Discuss with ET and Contractor on possible remedial measures. Advise Supervisor /ER on effectiveness of proposed remedial measures. Check implementation of remedial measures. 	 Notify Contractor. Ensure remedial measures are properly implemented. 	 Amend working methods. Rectify damage and undertake any necessary replacement.
Repeated Non-conformity	 Identify Source. Inform IEC and Supervisor /ER. Increase monitoring frequency. Discuss remedial actions with IEC, Supervisor /ER and Contractor. Monitor remedial actions until rectification has been completed. If non-conformity stops, cease additional monitoring. 	method. 3. Discuss with ET and Contractor on possible remedial measures.	 Notify Contractor. Ensure remedial measures are properly implemented. 	 Amend working methods. Rectify damage and undertake any necessary replacement.

Appendix N – Waste Flow Table

	Actual Quantities of Inert C&D Materials Generated Monthly				Actual Quantities of C&D Wastes Generated Monthly				thly		
Month	Total Quantity Generated	Borken Concrete (4)	Reused in the Contract	Reused in other Projects	Disposal as Public Fill	Import Fill	Metals	Paper / Cardboard Packaging	Plastics (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	0.84	0.13	0.00	0.00	0.71	0.00	0.00	0.00	0.00	0.00	0.01
FEB	0.36	0.05	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00
MAR	0.85	0.13	0.00	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.01
APR	0.80	0.13	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.01
MAY											•
JUNE											
SUB- TOTAL	2.85	0.44	0.00	0.00	2.40	0.00	0.00	0.00	0.00	0.00	0.03
JULY											
AUG											
SEPT											
ОСТ											
NOV											
DEC											
TOTAL	2.85	0.44	0.00	0.00	2.40	0.00	0.00	0.00	0.00	0.00	0.03

MONTHLY SUMMARY WASTE FLOW TABLE FOR 2022 (YEAR)

Appendix O – Environmental Mitigation Implementation Schedule (EMIS)

EIA Ref	Recommended Mitigation Measures	In	'n		
Part B	Water Quality	Not Observed	Yes	No	Remark
S8.8	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 use of sediment traps and adequate maintenance of drainage systems to prevent flooding and overflow				
S8.8	Construction site should be provided with adequately designed perimeter channel and pre- treatment 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.				
S8.8	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.				
S8.8	Sediment tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 m 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.				
S8.8	Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50 m3 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.				
S8.8	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.	M			
S8.8	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. Particular attention should be paid to the control of silty surface runoff during storm events.	V			
S8.8	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.				
S8.8	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 wash water should have sand and silt settled 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 wheel wash 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.				
S8.8	Drainage 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 should be no direct discharge of effluent from the site into the sea.	V			
S8.8	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.	Ŋ			
S8.8	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 of the Victoria Harbour WCZ				
S8.8	Sewage Effluent 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 should be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor should also be responsible for waste disposal and maintenance practices.				
S8.8	Stormwater Discharges Minimum distances of 100 m should be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes	V			
S8.8	Debris and Litter In order to maintain water quality in acceptable conditions with regard to aesthetic quality, contractors should be required, under conditions of contract, to ensure that site management	V			

EIA Ref	Recommended Mitigation Measures	Im	pleme	entatio	n
	is optimised and that disposal of any solid materials, litter or wastes to marine waters does not occur				
S8.8	Construction Works at or in Close Proximity of Storm Culvert or Seafront The proposed works should preferably be carried out within the dry season where the flow in the drainage channel /storm culvert/ nullah is low.	Ŋ			
S8.8	The use of less or smaller construction plants may be specified to reduce the disturbance to the bottom sediment at the drainage channel /storm culvert / nullah.	V			
S8.8	Temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be located well away from any water courses during carrying out of the construction works.	Ŋ			
S8.8	Stockpiling of construction materials and dusty materials should be covered and located away from any water courses.		V		
S8.8	Construction debris and spoil should be covered up and/ or disposed of as soon as possible to avoid being washed into the nearby water receivers		V		
S8.8	Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the waterfront, where practicable.	V			
S8.8	Mitigation measures to control site runoff from entering the nearby water environment should be implemented to minimize water quality impacts. Surface channels should be provided along the edge of the waterfront within the work sites to intercept the runoff.	V			
S8.8	Construction effluent, site run-off and sewage should be properly collected and/or treated.	A			
S8.8	Any works site inside the storm water courses should be temporarily isolated, such as by placing of sandbags or silt curtains with lead edge at bottom and properly supported props to prevent adverse impact on the storm water quality.	V			
S8.8	Silt curtain may be installed around the construction activities at the seafront to minimize the potential impacts due to accidental spillage of construction materials.	M			
S8.8	Proper shoring may need to be erected in order to prevent soil/mud from slipping into the storm culvert/drainage channel/sea.	\mathbf{N}			
S8.8	Supervisory staff should be assigned to station on site to closely supervise and monitor the works		\checkmark		
Part C C	onstruction Noise Impact	Not Observed	Yes	No	Remark
S7.8	Use of quiet PME, movable barriers for A sphalt Paver, Breaker , Excavator and Hand-held breaker and full enclosure for Air Compressor, Bar Bender, Concrete Pump, Generator and Water Pump		V		
S7.9	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program. Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program. Mobile plant, if		V		
	any, should be sited as far away from NSRs as possible. 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. 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.	V			
	Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities.	V			
Part D W	/aste / Chemical Management	Not Observed	Yes	No	Remark
S5.2	Prepare a Waste Management Plan, which becomes a part of the Environmental Management Plan, in accordance with the requirements stipulated in ETWB TC(W) No. 19/2005, approved by the Engineer/Supervising Officer of the Project based on current practices on construction sites		V		
	Training of site personnel in site cleanliness, proper waste management and chemical waste handling procedures		\checkmark		
	Provision of sufficient waste disposal points and regular collection for waste. Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers	V			
	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors. Separation of chemical wastes for special handling and appropriate treatment	$\mathbf{\nabla}$			
S9.5	1)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 2)Training of site personnel in proper waste management and chemical waste handling		V		
	procedures 3)Provision of sufficient waste disposal points and regular collection for disposal 4)Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers				
	5)A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites)				

EIA Ref	Recommended Mitigation Measures	In	npleme	entatio	n
S9.5	 Waste Reduction Measures 1) Sort C&D waste from demolition of the remaining structures to recover recyclable portions such as metals 2) 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 3) Encourage collection of aluminum cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force 4) Any unused chemicals or those with remaining functional capacity should be recycled 5) Proper storage and site practices to minimize the potential for damage or 				
S9.5	 contamination of construction materials Construction and Demolition Material Mitigation measures and good site practices should be incorporated into contract document to control potential environmental impact from handling and transportation of C&D material. The mitigation measures include: 1) Where it is unavoidable to have transient stockpiles of C&D material within the Project work site pending collection for disposal, the transient stockpiles should be located away from waterfront or storm drains as far as possible 2) Open stockpiles of construction materials or construction wastes on site should be covered with tarpaulin or similar fabric 3) Skip hoist for material transport should be totally enclosed by impervious sheeting 4) Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site 5) The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores 6) The load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure dust materials do not leak from the vehicle 7) All dusty materials should be sprayed with water prior to any loading, unloading or transfer eperation so as to maintain the dusty materials wet 				
S9.5	When delivering inert C&D material to public fill reception facilities, the material should consist entirely of inert construction waste and of size less than 250mm or other sizes as agreed with the Secretary of the Public Fill Committee. In order to monitor the disposal of the surplus C&D material at the designed public fill reception facility and to control fly tipping, a trip-ticket system as stipulated in the ETWB TCW No. 31/2004 "Trip Ticket System for Disposal of Construction				
S9.5	Chemical Waste After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals should be collected by a licensed collector for disposal at the CWTF or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation	V			
Part E La	andscape & Visual	Not Observed	Yes	No	Remark
S13.9	CM1 - All existing trees should be carefully protected during construction. CM2 - Trees unavoidably affected by the works should be transplanted where practical. Detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBC 2/2004 and 3/2006. Final locations of transplanted trees should be agreed prior to commencement of the work. CM3 - Control of night-time lighting. CM4 - Erection of decorative screen hoarding.				
Part F A	ir Quality	Not Observed	Yes	No	Remark
S6.8	Stockpiling site(s) should be lined with impermeable sheeting and bunded. Stockpiles should be fully covered by impermeable sheeting to reduce dust emission.		\mathbf{N}		
S6.8	Misting for the dusty material should be carried out before being loaded into the vehicle.	V			
S6.8	Material having the potential to create dust should not be loaded from a level higher than the side and tail boards and should be dampened and covered by a clean tarpaulin.	V			
S6.8	The tarpaulin should be properly secured and should extent at least 300 mm over the edges of the sides and tailboards. The material should also be dampened if necessary before transportation				
S6.8	The vehicles should be restricted to maximum speed of 10 km per hour and confined haulage and delivery vehicle to designated roadways insider the site. On-site unpaved roads should be compacted and kept free of lose materials		V		
S6.8	Vehicle washing facilities should be provided at every vehicle exit point		\checkmark		
S6.8	The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores.		\checkmark		
S6.8	Every main haul road should be-scaled with concrete and kept clear of dusty materials or sprayed with water so as to maintain the entire road surface wet.		V		

EIA Ref	Recommended Mitigation Measures	Implementation			า
S6.8	Every stock of more than 20 bags of cement should be covered entirely by impervious sheeting placed in an area sheltered on the top and the three sides.	\checkmark			
S6.8	Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites.		V		
S6.5	8 times daily watering of the work site with active dust emitting activities.		V		

Appendix P – Summaries of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting Month: April 2022

Contract No.	Record of Complaint (Yes/No)	Record of Warning (Yes/No)	Notification of Summons and Successful Prosecutions (Yes/No)
ED/2018/05	No	No	No

Cumulative Statistics on Complaints, Notification of Summons and Successful Prosecutions upto reporting month

Contract No.	Record of Complaint	Record of Warning	Notification of Summons and Successful Prosecutions
ED/2018/05	1	0	0