





# Contract No. 13/WSD/16

Mainlaying in Tseung Kwan O

# 15th Quarterly EM&A Report For February to April 2022

August 2022 (Rev. 0)

	Prepared by:	Reviewed and Certified by:	
Name	Howard Chan	Jacky Leung	
Position	Environmental Team	Environmental Team Leader	
Signature	Loward		
Date:	20 September 2022	20 September 2022	



Water Supplies Department

New Works Branch

Construction Division

11 Tai Yip Lane Kowloon Bay

Kowloon Bay Kowloon

Hong Kong

Attention: Mr Hivan Cheng

Your reference:

Our reference:

HKWSD201/50/108247

Date:

22 September 2022

BY POST

Quotation No.: WQ/17/A071

Independent Environmental Checker for Water Supplies Department

- Proposed Desalination Plant in TKO Area 137 for Contract No. 13/WSD/16

Verification of 15th Quarterly EM&A Report for February to April 2022

We refer to emails of 14, 20 and 21 September 2022 attaching 15th Quarterly EM&A Report for February to April 2022 for the captioned project prepared by the ET.

We have no further comment and hereby verify the captioned report in accordance with Clause 3.5 of the Environmental Permit no. EP-503/2015/A.

Should you have any queries regarding the above, please do not hesitate to contact the undersigned or our Mr Louis Kwan on 2618 2831.

Yours faithfully

ANEWR CONSULTING LIMITED

James Choi

Independent Environmental Checker

CPSJ/KSYL/lsmt







# **Revision History**

Rev.	DESCRIPTION OF MODIFICATION	DATE
0	1 <sup>st</sup> Submission	14/09/2022
1	Revised according to IEC's comment	20/09/2022





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## **EXECUTIVE SUMMARY**

- A1. Penta-Ocean Concentric Joint Venture (POCJV) is contracted to carry out the Mainlaying in Tseung Kwan O under Contract No. 13/WSD/16 (hereinafter known as "the Project").
- A2. In accordance with the Environmental Monitoring and Audit (EM&A) Manual for the Project, EM&A works should be carried out by Environmental Team (ET), Acuity Sustainability Consulting Limited (ASCL), during the construction phase of the Project.
- A3. The construction works of Mainlaying in Tseung Kwan O were commenced on 30 August 2018. This is the 15<sup>th</sup> quarterly Environmental Monitoring and Audit (EM&A) summary Report prepared by ASCL. This report presents the EM&A works carried out during the period of 1 February to 30 April 2022.
- A4. All the environmental monitoring works were conducted in accordance with the EM&A Manual. The monitoring results were checked and reviewed. Site audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handing procedures were also checked.
- A5. A summary of the monitoring activities undertaken in this reporting period is listed below:

Monitoring Activities	Frequency
Daytime Noise monitoring	13 times
Landfill Gas Monitoring	1414 times
Environmental Site Inspection	12 times

- A6. All construction noise monitoring was conducted as scheduled in the reporting quarter. No Action and Limit Level exceedance was recorded in the reporting quarter.
- A7. No Action and Limit Level exceedance of landfill gas monitoring was recorded in the reporting quarter.
- A8. No environmental complaint, noticfication of summons and prosecution was received in the reporting quarter. The Complaint Log is presented in **Appendix E**.
- A9. There were no changes to be reported that may affect the on-going EM&A programme.





# 1. Basic Project Information

## 1.1. Background

- 1.1.1. The proposed Desalination Plant at Tseung Kwan O (DPTKO) will produce potable water with an initial capacity of 135 million liters per day (MLD), expandable to an ultimate capacity of 270 MLD in the future to provide a secure and alternative fresh water resource complying with the World Health Organization (WHO) standards. The plant will adopt the Seawater Reverse Osmosis (SWRO) technology, which dominates the market due to its reliability and progressive reduction in cost as the technology advances.
- 1.1.2. Pursuant to the Environmental Impact Assessment Ordinance (EIAO), the Director of Environmental Protection granted the Variation of Environmental Permit (No. EP-503/2015/A) to Water Supplies Department (WSD) for the Project on 26 January 2018.
- 1.1.3. The scope of the Contract may be considered in brief, to consist of the laying of about 10km long 1200mm diameter freshwater mains and the associated works along the alignment of the Project as shown with the overall view in **Appendix B**.

### 1.2. The Reporting Scope

- 1.2.1. This is the 15<sup>th</sup> Quarterly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 February 30 April 2022.
- 1.2.2. Contact details of the key personnel are presented in **Table 1.1** below:

**Table 1.1 Contract Details of Key Personnel** 

Party	Position	Name	Telephone no.
Penta-Ocean- Concentric Joint Venture	Environmental Officer	Calvin Chik	9863-5630
Acuity Sustainability Consulting Limited	Environmental Team Leader	Jacky Leung	2698-6833
ANewR Consulting Limited	Independent Environmental Checker	James Choi	2618-2831





# 1.3. **Summary of Construction Works**

1.3.1. Details of the major construction works undertaken in this reporting quarter are shown in **Table 1.2**. The construction programme is presented in **Appendix A**.

Table 1.2 Summary of Construction Works Undertaken in the Reporting Quarter

Table 1.2 Summary of Construction Works Undertaken in the Reporting Quarter				
Location	Location Works Conducted in the reporting qu			
	TKO 137 Pit A	<ul> <li>Site clearance for pipe jacking works were conducted.</li> <li>Preparation works of pipe installation inside sleeve pipe between Pit 137A to Pit 137C were conducted.</li> </ul>		
Portion H of the Project Site	TKO 137 Pit B			
	TKO 137 Pit C	<ul> <li>Pipe installation works inside sleeve pipe between Pit 137A to Pit 137C will be conducted.</li> </ul>		
	Wan Po Rd – Workfront 1	<ul> <li>Pipe trench excavation and pipe laying were in-progress.</li> <li>Mini piling works for ELS of receiving pit 1 construction</li> <li>Curtain grouting works for the receiving pit 1</li> </ul>		
	Wan Po Rd – Workfront 2	<ul> <li>Mini piling works for ELS of jacking pit construction</li> <li>Curtain grouting for mini piling works of jacking pit 2</li> <li>Excavation and ELS works for jacking pit 2</li> </ul>		
	Wan Po Rd – Workfront 3			
	Wan Po Rd – Workfront 4	Pipe trench excavation and pipe laying		
	Wan Po Rd – Pit A	Remedial works for pit		
	Wan Po Rd – Pit B	Preparation works for TBM pipe jacking		
Portion J of the	Wan Po Rd – Pit D	<ul> <li>Completion of Pit D construction.</li> <li>Preparation works for TBM pipe jacking</li> <li>MTBM pipe jacking</li> </ul>		
Project Site	Shek Kok Road – Hand-shield	<ul><li>Modification of existing retaining wall</li><li>Construction of wing wall</li></ul>		
	Landfill Stage 1 – Area A	<ul><li>Pipe trench excavation and pipe laying</li><li>Plate load test was conducted.</li></ul>		
	Pet Garden's Road	Pipe trench excavation and pipe laying		
	Landfill Stage 1 – Area B	• Trench excavation and pipe laying were inprogress.		
	Pung Loi Road – Pit WPR1	<ul><li>Sheetpile driving works for pit ELS</li><li>Excavation and ELS works for jacking</li></ul>		
	Roundabout – Pit G1A	<ul><li>Pit excavation and ELS works</li><li>Complete receiving pit construction</li></ul>		
	Velodrome – Pit K	<ul> <li>Preparation works for pipe laying</li> <li>Pipe installation works inside sleeve pipe between Pit K to Pit L</li> </ul>		
	Velodrome – Pit L-M	<ul> <li>Trench excavation and pipe laying works</li> <li>Pipe installation inside sleeve pipe between Pit M1 to Pit M2</li> </ul>		





Location	Location	Works Conducted in the reporting quarter
		Hand-shield pipe jacking works were conducted.
	Velodrome – Pit O to Pit N	<ul><li>Trench excavation and pipe laying</li><li>Site clearance works</li></ul>
	Velodrome – Pit O to Pit P	<ul><li> Site setup works for trenchless works</li><li> TBM pipe jacking works</li></ul>
	Ling Hong Road - Pit Y	Grouting works of cavity between sleeve pipe
	Ling Hong Road – Pit R	and MS pipe
	Mau Wu Tsai – Workfront 1	
	Mau Wu Tsai – Workfront 2	Trench excavation and pipe laying works
	Po Lam Road South	
	Po Lam Road (C2)	Pre-drilling works for mini piling of pipe bridge at Location A westside slope
	Po Lam Road (D2)	Trench excavation and pipe laying works
	Po Lam Road (B4)	<ul><li>Trench rock breaking works</li><li>Trench excavation and pipe laying works</li></ul>
Tsui Lam Road • Bamb		Bamboo platform erection works
	TKO Primary Service Reservoir	Trench excavation and pipe laying works

# 1.4. Summary of Construction Works

1.4.1. A summary of the valid permits, licences, and /or notifications on environmental protection for this Project is presented in **Table 1.3**.

Table 1.3 Summary of the Status of Valid Environmental Licence, Notification, Permit and Documentations

Reference	Validity Period	Remark		
Variation of Environmental Per	mit			
EP no.: EP -503/2015/A	Throughout the Contract	-		
Notification of Construction Wo (Form NA)	rks under the Air Pollution Contr	ol (Construction Dust) Regulation		
Ref no.: 423775	Throughout the Contract	-		
Chemical Waste Producer Regis	tration			
WPN: 5213-839-P3287-01	Throughout the Contract	-		
Billing Account for Disposal of C	Construction Waste			
A/C no.: 7029491	Throughout the Contract	-		
Water Discharge License				
WT00032336-2018	Until 31 Dec 2023	-		
Construction Noise Permit				
GW-RE1219-21	Until 1 Apr 2022	Expired in the reporting period		
GW-RE0330-22	Until 1 Oct2022	-		





Reference	Validity Period	Remark
GW-RE1211-21	Until 1 Apr 2022	Expired in the reporting period
GW-RE0329-22	Until 1 Oct2022	-
GW-RE1224-21	Until 1 Apr 2022	Expired in the reporting period
GW-RE0353-22	Until 1 Oct2022	-

1.4.2. The status for all environmental aspects is presented **Table 1.4**.

Table 1.4 Summary of Status for Key Environmental Aspects under the EM&A Manual

Parameters	Status		
	Noise		
Baseline Monitoring	The baseline noise monitoring result has been reported in		
	Baseline Monitoring Report and submitted to EPD under VEP Condition 3.4		
Impact Monitoring  13 times of noise impact monitoring were conducted in the reporting period at NSR4 Creative Secondary School sind projected-related construction activities were undertaked within a radius of 300m from the monitoring location			
	Waste Management		
Mitigation Measures in Waste Management Plan	On-going		
Landfill Gas Monitoring			
Mitigation Measures On-going			
Monitoring On-going			
Environmental Audit			
Site Inspection On-going			

- 1.4.3. Other than the EM&A works by ET, regular environmental management meetings were conducted in order to enhance environmental awareness and closely monitor the environmental performance of the contractors.
- 1.4.4. The EM&A programme has been implemented in accordance with the recommendations presented in the approved EIA Report and the EM&A Manual. A summary of implementation status of the environmental mitigation measures for the construction phase of the Project during the reporting period is provided in **Appendix C**.





# 2. Noise Monitoring

## 2.1. **Monitoring Requirements**

2.1.1. To ensure no adverse noise impact, noise monitoring is recommended to be carried out within 300m radius from the natby sentitive recivers (NSRs) during construction phase. Referring to the EM&A Manual Section 4.1.2, the impact noise monitoring should be carried out at all designated monitoring stations when there are project-related construction activities undertaken within a redius of 300m from the monitoring stations.

### 2.2. **Monitoring Parameter**

2.2.1. Impact noise monitoring was conducted weekly in the reporting quarter between 0700-1900 on normal weekdays. Construction noise level was measured in terms of the A-weighted equivalent continuous sound pressure level (LAeq). Leq 30min was used as the monitoring parameter for the time period between 0700 and 1900 on normal weekdays.

Table 2.1 summarizes the monitoring parameters, frequency, and duration of the impact noise monitoring.

**Table 2.1 Noise Monitoring Parameters, Time, Frequency and Duration** 

Time	Frequency	Duration	Parameters
Daytime 0700 – 1900	Once per week	Continuously in Leq 5min/Leq 30min (average of 6 consecutive Leq 5min)	Leq, L10 & L90

2.2.2. The monitoring methodology and QA/QC procedure could be referring to Section 2.4 of the Monthly EM&A Report.

#### 2.3. **Monitoring Location**

2.3.1. According to the environmental findings detailed in the EIA report and Baseline Monitoring Report, the designated locations for the construction noise monitoring are listed in **Table 2.2** and shown in **Figure 2.1 – 2.3**.

**Table 2.2 Designated Nosie Monitoring Station** 

NSR ID	Noise Sensitive Receivers	Monitoring Location	Position
NSR4	Creative Secondary School	Roof Floor	1m from Façade
NSR24	PLK Laws Foundation College	Pedestrian Road on Ground Floor	Free-Field
NSR31	School of Continuing and Professional Studies - CUHK	Roof Floor	1m from Façade





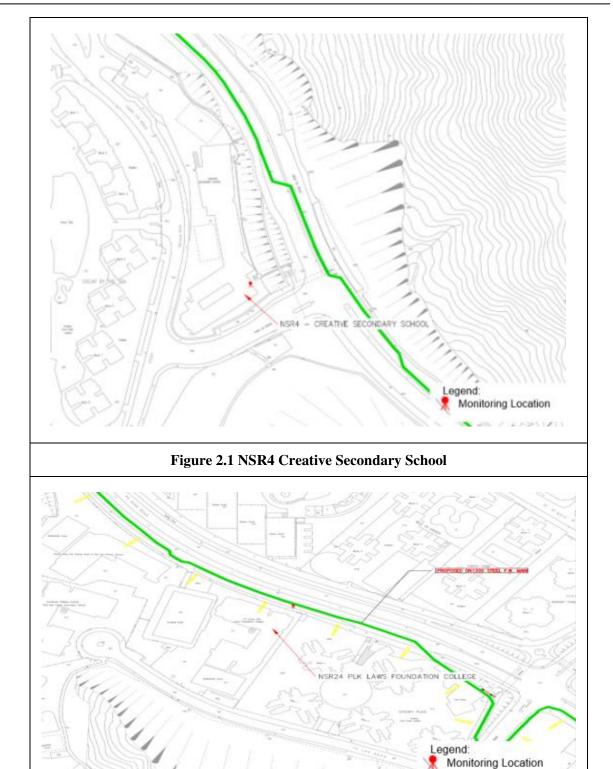
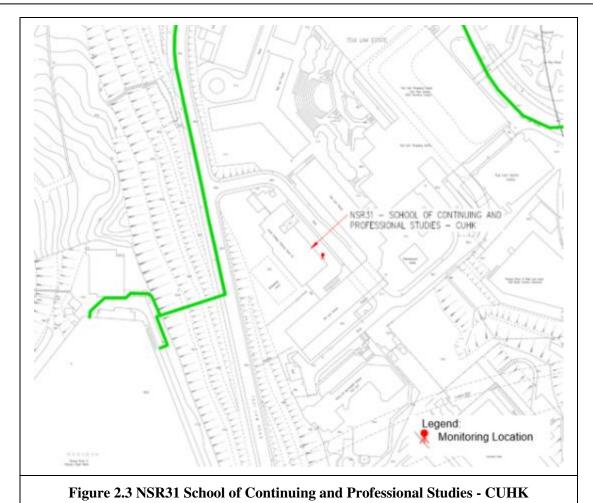


Figure 2.2 NSR24 PLK Laws Foundation College







# 2.4. Action and Limit Level

2.4.1. The Action/Limit Levels are in line with the criteria of Practice Note for Professional Persons (ProPECC PN 2/93) "Noise from Construction Activities – Non-statutory Controls" and Technical Memorandum on Environmental Impact Assessment Process issued by HKSAR Environmental Protection Department ["EPD"] under the Environmental Impact Assessment Ordinance, Cap 499, S.16 are presented in **Table 2.3**.

Table 2.3 Action and Limit Level for Construction Noise Monitoring

Time Period	Action Level	Limit Level
0700 – 1900 on normal weekdays	When one documented complaint is received from any one of the noise	and
	sensitive receivers	examaintion period
Notes: (a) Limits specified in the GW-TM a	and IND-TM for construction and ope	ration noise, respectively.





### 2.5. Monitoring Results and Observation

- 2.5.1. 13 times of noise impact monitoring were conducted as schedule in the reporting quarter at NSR4 Creative Secondary School since projected-related construction activities were undertaken within a radius of 300m from the monitoring location.
- 2.5.2. No construction works were conducted within 300m radius of NSR4 and NSR31. Thus, no construction noise monitoring was carried out at NSR4 and NSR31 in the reporting quarter.
- 2.5.3. The Graphical presentation of the construction noise monitoring results was shown in **Figure 2.4**.

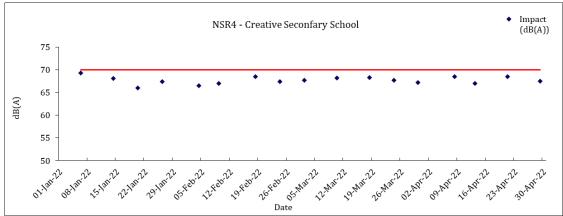


Figure 2.4 Graphical presentation of the construction noise monitoring at NSR4

- 2.5.4. No Action and Limit level exceedance of construction noise monitoring was recorded in the reporting quarter. Summary of Exceedance could be referring to **Accepndix D**.
- 2.5.5. If non-compliance occurred, actions as stated in **Appendix F** will be undertaken.
- 2.5.6. The major noise sources identified at the designated noise monitoring station were vehicle movement near the Creative Secondary School.





# 3. WASTE MANAGEMENT

3.1. Mitigation measure on waste management have been implemented in accordance with the requirements of the EM&A Manual. Suitable C&D materials were reused on-site, while the remaining C&D materials and non-inert wastes were disposed at the public filling reception facilities and the landfills respectively. The quanties disposed in the reporting quarter could be referring to **Appendix G**.

# 4. Summary of Exceedance, Complants, Notification of Summons and Prosecutions

- 4.1. All construction noise monitoring was conducted as schedule in the reporting quarter. No Action and Limit Level exceedance was recorded in the reporting quarter.
- 4.2. Landfill gas monitoring was carried out by the Registered Safety Officer of the Contractor at the excavation locations and within the consultation zones. No Action and Limit Level exceedance was recorded in the reporting quarter. Summary of Exceedance could be referring to **Accpendix D**.
- 4.3. No environmental complaint, notification of summons and prosecution was received in the reporting quarter.





# 5. EM&A SITE INSPECTION

- 5.1. Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. Three joint site inspections with IEC were carried out on 24 February, 24 March, 25 April 2022.
- 5.2. Minor deficiencies were observed during weekly site inspection. Key observations during the site inspections are summarized in **Table 5.1 5.3**.

**Table 5.1 Site Observations (February 2022)** 

Date	Environmental Observations	Follow-up Status
11 February 2022	<ol> <li>Drip tray should be provided for chemical storage at Pit X.</li> <li>To review water mitigation measure at piling area (Pit X).</li> <li>Regular clear the rubbish in storm drainage to avoid blockage at Pit X.</li> </ol>	Chemicals were removed.     Sandbags was provided to direct surface runoff to wastewater treatment facilities.     Rubbishes in storm drainage were cleaned.
17 February 2022	1. Gullies were observed not protected by sandbags/geotextile on 4 sides at Wan Po Road 3.	Gullies were protected by geo-textile.
24 February 2022	<ol> <li>Drip tray should be provided for chemical storage at Pit D.</li> <li>To establish tree protection zone at Pit D.</li> <li>Wastewater should be properly treated before discharge at Pit A and workfrount 4b.</li> <li>To clear stagnant water in drip tray (Pit A).</li> <li>Gully should be covered and provide sandbags around the gully to avoid muddy surface runoff flow into gully. (WorkFrount 4)</li> </ol>	<ol> <li>Chemicals were removed.</li> <li>Tree protection zone was established at Pit D.</li> <li>There was no wastewater discharged at Pit A and workfrount 4b.</li> <li>Stagnant water in drip tray was cleared.</li> <li>Gully was covered by geo-textile.</li> </ol>

**Table 5.2 Site Observations (March 2022)** 

Date	<b>Environmental Observations</b>	Follow-up Status
3 March 2022	Clear the oil stain on ground and avoid oil leakage from excavator.  (Po Lam South Road)	1. The oil stain on ground was cleaned.
11 March 2022	<ol> <li>Drip tray should be provided for chemical storage. (Wan Po Road Workfount 4)</li> <li>Stockpile of dusty materials should be covered properly with impervious materials at Area A.</li> </ol>	<ol> <li>Chemical was removed</li> <li>Dusty materials was covered properly.</li> </ol>





Date	<b>Environmental Observations</b>	Follow-up Status
	1. Drip tray should be provided for chemical storage. (Pit P and Velodrone O)	1. Drip tray was provided for chemical storage.
18 March 2022	2. Adequate capacity of sedimentation tank should be provided to prevent overflow of untreated muddy water at Velodrome L.	2. Sedimentation tank was cleaned.
24 March 2022	<ol> <li>Chemcial waste should be stored at a designated area before disposal. (Creative School)</li> <li>Excavated materials/ rubbish should be disposed of properly and prevent soil entering the stream. (Creative School)</li> </ol>	<ol> <li>Chemical waste was cleaned.</li> <li>Excavated materials/rubbish was cleaned.</li> </ol>
30 March 2022	<ol> <li>Drip tray should be provided for chemical storage (Velodrome L, N, O)</li> <li>To clear the stagnant water in drip tray. (Velodrome L, N, M)</li> </ol>	<ol> <li>Drip tray was provided for chemical storage.</li> <li>Stagnant water in drip tray was cleared.</li> </ol>

Table 5.3 Site Observations (April 2022)

Date	<b>Environmental Observations</b>	Follow-up Status
0.4	1. Drip tray should be provided for	1. Drip tray was provided
8 April 2022	chemical storage. (HK Velodrome N)	for chemical storage.
14 April 2022	1. Drip tray should be provided for	1. Drip tray was provided
	chemical storage. (Pit D)	for chemical storage.
21 April 2022	Drip tray should be provided for chemical storage. (Pit X and Location A)      Dublic road should be glooned.	<ol> <li>Drip tray was provided for chemical storage.</li> <li>Public road was</li> </ol>
	2. Public road should be cleaned properly and regularly. (Po Lam South Road)	cleaned properly.
25 April 2022	No observations were recorded on the i	respective day.

5.3. According to the EIA Study Report, Environmental Permit, contract documents and EM&A Manual, the mitigation measures detailed in the documents should be implemented as much as practical. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in **Appendix C**.





## 6. LANDFILL GAS MONITORING

## 6.1. Monitoring Requirements

6.1.1. In accordance with Section 11 of the EM&A Manual, monitoring of landfill gas is required for construction works within the 250m Consultation Zone. Part of the desalination plant and the indicative area of natural slope mitigation works fall within the SENT Landfill Extension Consultation Zone; and part of the 1,200 mm diameter freshwater mains along Wan Po Road falls within the SENT Landfill and SENT Landfill Extension Consultation Zones, TKO Stage II/III Restored Landfill and TKO Stage I Restored Landfill Consultation Zones.

## 6.2. Monitoting Location

- 6.2.1. Monitoring of oxygen, methane, carbon dioxide and barometric pressure was performed for excavations at 1m depth or more within the Consultation Zone.
- 6.2.2. During construction of works within the consultation zones, excavations of 1m depth or more was monitored:
  - At the ground surface before excavation commences;
  - Immediately before any worker enters the excavation;
  - At the beginning of each working day for the entire period when the excavation remains open; and
  - Periodically through the working day whilst workers are in the excavation.
- 6.2.3. For excavations between 300mm and 1m deep, measurements should be carried out:
  - Directly after the excavation has been completed; and
  - Periodically whilst the excavation remains open.

#### 6.3. Monitoring Parameter

- 6.3.1. Landfill Gas monitoring was carried out to identify any migration between the landfill and the Project and to ensure the safety of the construction, operation and maintenance personnel working on-site, visitors and any other person within the Project area.
- 6.3.2. The following parameters were monitored:
  - Oxygen;
  - Carbon Dioxide;
  - Barometric Pressure
  - Methane;
- 6.3.3. The monitoring methodology and equipment could be referring to Section 4.5 of the Monthly Reprot.





#### 6.4. Action and Limit Level

6.4.1. Action and Limit Level are presented in **Table 6.1**.

Table 6.1 Action and Limit Level for Landfill Gas Monitoring

Parameters	Action Level	Limit Level
Oxygen (O <sub>2</sub> )	<19% 02	<19% 02
Methane (CH <sub>4</sub> )	>10% LEL	>20% LEL
Carbon Dioxide (CO <sub>2</sub> )	>0.5% CO <sub>2</sub>	>1.5% CO <sub>2</sub>

## 6.5. Monitoring Reuslt

6.5.1. In the reporting quarter, landfill gas monitoring was carried out by the Registered Safety Officer of the Contractor at the excavation locations for 1414 times. No action and limit level exceedance was recorded in the reporting quarter. The landfill gas monitoring results could be referring to Appendix J of the Monthly EM&A Report.





# 7. CONCLUSION AND RECOMMENDATIONS

- 7.1. This is the 15<sup>th</sup> quarterly Environmental Monitoring and Audit (EM&A) Summary Report prepared by ASCL. This report presents the EM&A works carried out during the period of 1 February to 30 April 2022 in accordance with the EM&A Manual and the requirement under EP-503/2015/A.
- 7.2. 13 times of noise impact monitoring were conducted in the reporting quarter at NSR4 Creative Secondary School since projected-related construction activities were undertaken within a radius of 300m from the monitoring location.
- 7.3. No Action and Limit Level exceedance of construction noise was recorded during the reporting quarter.
- 7.4. No landfill gas monitoring exceedance was recorded in the reporting quarter.
- 7.5. Weekly environmental site inspection was conducted during the reporting quarter. Minor deficiencies were observed during site inspection and were rectified. The environmental performance of the Project was therefore considered satisfactory.
- 7.6. According to the environmental site inspections performed in the reporting quarter, the Contractor is reminded to pay attention on maintaining site tidiness and proper materials storage. The Contractor is also reminded to consider the treatment of wastewater from the construction site area.
- 7.7. No environmental complaint, notification of summons and prosecution was received in the reporting quarter.
- 7.8. The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.
- 7.9. Statistics on complaints and regulatory compliance are summarized in **Appendix E**.





# Appendix A

Master Programme

_							Project: Mainlaying in Tseung			T.												
	ask Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018		2019	2020		2021		2022	2	023	2024 2024	2025
(	ey Dates	2495 days	Tue 7/11/17	Thu 5/9/24	Calendar Day			0%	Tue 7/11/17	NA	Q4 Q1	Q2   Q3   0	04 Q1 Q2	Q3 Q4 Q1	Q2   Q3	Q4 Q1 Q	02   Q3   Q4	Q1   Q2	Q3 Q4	Q1   Q2   Q3	Q4 Q1 Q2	Q3   Q4   Q1   Q
					Calendar Day		67,59,60FS+27		Tue 7/11/17		<b>♦</b> 7/11											
	Contract Date	0 days	Tue 7/11/17	Tue 7/11/17			days,61,62,58													,		
	Starting Date	0 days	Thu 16/11/17	Thu 16/11/17	Calendar Day		4,5FS+730 days,6FS+1279 days															
	Access Date of Portion A, B, C, D, E, F, G and J	0 days	Thu 16/11/17	Thu 16/11/17	Calendar Day	3	90,63,71,73,75,78,79	100%	Thu 16/11/17	Thu 16/11/17	<b>♦</b> 16/11											
	Access Date of Portion H	0 days	Sat 16/11/19	Sat 16/11/19	Calendar Day	3FS+730 days	110	100%	Sat 16/11/19	Sat 16/11/19				♦ 16/11								
	Completion Date (Contract)	0 days	Tue 18/5/21	Tue 18/5/21	Calendar Day	3FS+1279 days	7	100%	Tue 18/5/21	Tue 18/5/21							▶ 18/5					
	EOT for CE No. 23 Inclement Weather - In June 2018	0 days	Tue 18/5/21	Tue 18/5/21	HK Working Day	<i>y</i> 6	8	100%	Tue 18/5/21	Tue 18/5/21						1	▶ 18/5					
	EOT for CE No. 01	246 days	Wed 19/5/21	Wed 19/1/22	Calendar Day	7	9FF	0%	NA	NA								<b>•</b> 19/1				
	Revised Completion Date	0 days	Wed 19/1/22	Wed 19/1/22	Calendar Day	8FF	11FS+365 days	0%	NA	NA								<b>•</b> 19/1				
	Planned Completion	0 days	Thu 5/9/24	Thu 5/9/24	Calendar Day	12FF		0%	NA	NA					100							<b>♦</b> 5/9
	Defect Date	0 days	Thu 19/1/23	Thu 19/1/23	Calendar Day	9FS+365 days		0%	NA	NA			+						•	19/1		2
V	fainlaying In Tseung Kwan O	2495 days	Tue 7/11/17	Thu 5/9/24	Calendar Day		10FF	77%	Tue 7/11/17	NA	-											-
									Tue 12/6/18			-						7				
	Issued Compensation Events (General)	1316 days	Tue 12/6/18	Tue 18/1/22	Calendar Day																	
	Preliminaries	1636 days		Sat 30/4/22	Calendar Day				Tue 7/11/17						The state of the s			•				
	Submission and Permit Application	322 days	Tue 7/11/17	Mon 24/9/18	Calendar Day			100%	Tue 7/11/17	Mon 24/9/18												
	Subcontracting	1122 days	Thu 16/11/17	Fri 11/12/20	Calendar Day			100%	Thu 16/11/17	Fri 11/12/20						-						
	Site Establishment	220 days	Tue 2/1/18	Thu 9/8/18	Calendar Day			100%	Tue 2/1/18	Thu 9/8/18		7										
	Procurement of Major Material	1485 days	Sat 7/4/18	Sat 30/4/22	Calendar Day			100%	Sat 7/4/18	Sat 30/4/22	•							~				
	Mainlaying in Tseung Kwan O Area 137 (Portion H)	1260 days	Tue 11/12/18	Wed 15/3/23	HK Working Da	у		92%	Tue 11/12/18	NA			+							-		
	Early Possession of Portion H	0 days	Mon 29/7/19	Mon 29/7/19	Calendar Day			100%	Mon 29/7/19	Mon 29/7/19				<b>*</b> 29/7								
	Issue Date of CE No. 07 -Water Supply to No. TKO Desalination Plant at Portion H	0 days	Tue 22/1/19	Tue 22/1/19	Calendar Day		104	100%	Tue 22/1/19	Tue 22/1/19			<b>22/1</b>									
	(NS250 HDPE Pipe) Material Procurement and Delivery in Batches	330 days	Tue 11/12/18		Calendar Day	103		100%	Tue 11/12/18	Tue 5/11/19			.,.									
		597 days	Sat 10/8/19		HK Working Da		761		Sat 10/8/19					Ç			-					
		1162 days			HK Working Da		784,762		Tue 22/1/19													
	Final Connection of NS250 HDPE Pipe to Existing at Wan Po Road	14 days	Tue 28/2/23	Wed 15/3/23	HK Working Day	y 788		0%		NA										•		
	Mainlaying From Boundary of Tseung Kwan O Area 137 to TKO Fresh Water Service Reservoir (Portion I)	1866 days	Tue 7/11/17	Mon 26/2/24	HK Working Da	у		74%	Tue 7/11/17	NA												
	Open Cut Excavation, Pipe Laying and Reinstatement at Wan Po Road	1506 days	Thu 30/8/18	Thu 28/9/23	HK Working Da	У		81%	Thu 30/8/18	NA												
	Trenchless Work at Wan Po Road From Pit A to Pit F	1866 days	Tue 7/11/17	Mon 26/2/24	HK Working Da	у		56%	Tue 7/11/17	NA	-											0.00
	Open Cut Excavation, Pipe Laying and Reinstatement at TKO Landfill Stage 1 and TKO	1221 days	Thu 23/8/18	Fri 7/10/22	HK Working Da	У		91%	Thu 23/8/18	NA		_							~			
	South Waterfront Promenade Water Mains Near Pung Loi Road (CH.FD0+00 - CH.A3+51)	1020 days	Wed 17/6/20	Thu 23/11/23	HK Working Da	у		60%	Wed 17/6/20	NA					-						-	
	Water Mains near Pung Loi Road and Po Yap Road (CH.FE0+00 - CH.A3+58)	758 days	Thu 20/8/20	Sat 11/3/23	HK Working Da	у	765	78%	Thu 20/8/20	NA					φ		_			-7		
	Trenchless Work from Po Yap Road Roundabout to KMB Depot (Pit K to Pit L) (Pit O to	822 days	Fri 28/2/20	Mon 5/12/22	HK Working Da	у	765	55%	Fri 28/2/20	NA				-								
	Pit P) Trenchless Work from Po Yap Road Roundabout (Hong Kong Velodrome)		Tue 2/4/19		HK Working Da		765		Tue 2/4/19				-							-		
			Tue 7/11/17		HK Working Da				Tue 7/11/17		-											
																						-
	DN800 - CH.ADN1200 MS Pipe Static Pressure Test, Pipeline Cleaning, CCTV Inspection, Sterilization and Water Sampling				Calendar Day		TO THE		Wed 24/3/21													
	Static Pressure Test		Wed 24/3/21		Calendar Day				Wed 24/3/21													
	Pipeline Cleaning and CCTV Inspection	1153 days	Wed 12/5/21	Sun 7/7/24	Calendar Day			10%	Wed 12/5/21	NA						· ·						
	Sterilization and Water Sampling	30 days	Mon 8/7/24	Tue 6/8/24	Calendar Day			0%	NA	NA												•
	NS250 HDPE Pipe Static Pressure, Pipeline Cleaning, CCTV Inspection, Sterilization and	60 days	Fri 23/12/22	Mon 20/2/23	Calendar Day			0%	NA	NA									•	~		
	Water Sampling Handover Portion I and Portion H to WSD Region	563 days	Tue 21/2/23	Thu 5/9/24	Calendar Day			0%	NA	NA												7
	Water Supply to Tseung Kwan O Desalination Plant at Fill Bank of Tseung Kwan O Area	445 days	Tue 7/11/17	Sat 11/5/19	HK Working Da	У		99%	Tue 7/11/17	NA			7									
	137 (Portion J)																					

Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018	2   03   04	2019 2019 O1 02	03   04   01	02   03   04	2021	03   04   01	02   03   04	2023 4 O1 O2	03   04	2024 2024 Q1   Q2   Q	3 Q4 Q1 Q2
Dates	2495 days	Tue 7/11/17	Thu 5/9/24	Calendar Day			0%	Tue 7/11/17	NA	Ø1 V1 V	2 0 0	Qi Qi	Q	42 42 44	,						•
anned Completion	0 days	Thu 5/9/24	Thu 5/9/24	Calendar Day	12FF		0%	NA	NA											•	<b>♦</b> 5/9
nlaying In Tseung Kwan O	2495 days	Tue 7/11/17	Thu 5/9/24	Calendar Day		10FF	77%	Tue 7/11/17	NA												
ainlaying From Boundary of Tseung Kwan O Area 137 to TKO Fresh Water Service sservoir (Portion I)	1866 days	Tue 7/11/17	Mon 26/2/24	HK Working Day	1		74%	Tue 7/11/17	NA												
Trenchless Work at Wan Po Road From Pit A to Pit F	1866 days	Tue 7/11/17	Mon 26/2/24	HK Working Day	У		56%	Tue 7/11/17	NA												
Trenchless Works (Pit A to Pit D)	1354 days	Fri 2/8/19	Mon 26/2/24	HK Working Day	Y	763	51%	Fri 2/8/19	NA			1								-	
New Routing From Pit A to Pit D)	553 days	Thu 14/4/22	Mon 26/2/24	HK Working Day	y		0%	Thu 14/4/22	NA											7	
XP Application for WPR, SKR and Open Trench at Shek Kok Road	60 days	Tue 19/4/22	Thu 30/6/22	HK Working Day	274	278,279,286	0%	NA	NA												
Trial Pit Excavation at Pit SKR	10 days	Sat 2/7/22	Wed 13/7/22	HK Working Day	, 275	288,285,284	0%	NA	NA												
Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)	200 days	Thu 14/7/22	Tue 14/3/23	HK Working Day	, 279	288	0%	NA	NA												
Construction of Pit SKR	90 days	Wed 15/3/23	Thu 6/7/23	HK Working Day	, 279,284	290	0%	NA	NA									harman and a second			
Headshield Tunneling fom Pit SKR to Pit WPR (64m)	107 days	Fri 7/7/23	Sat 11/11/23	HK Working Day	, 288	292	0%	NA	NA												
MS Pipe Laying in Segment from Pit SKR to Pit WPR	30 days	Sun 12/11/23	Mon 11/12/23	Calendar Day	290	295,296	0%	NA	NA												
Pipe Connection Works and construction of Inspoection Chamber at Pit WPR	60 days	Tue 12/12/23	Mon 26/2/24	HK Working Day	292,283		0%	NA	NA												
Pipe Connection Works and construction of Washout Chamber at Pit SKR	60 days	Tue 12/12/23	Mon 26/2/24	HK Working Day	, 292		0%	NA	NA												
0N800 - CH.ADN1200 MS Pipe Static Pressure Test, Pipeline Cleaning, CCTV Inspection, terilization and Water Sampling	1232 days	Wed 24/3/21	Tue 6/8/24	Calendar Day			13%	Wed 24/3/21	NA												
Static Pressure Test	1112 days	Wed 24/3/21	Mon 8/4/24	Calendar Day			18%	Wed 24/3/21	NA												
DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) (Approx. 1.4km)	42 days	Tue 27/2/24	Mon 8/4/24	Calendar Day	224,251,306	774		NA	NA												
Pipeline Cleaning and CCTV Inspection	1153 days	Wed 12/5/21	Sun 7/7/24	Calendar Day			10%	Wed 12/5/21		1											
DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chambe at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A		Tue 9/4/24	Sun 7/7/24	Calendar Day	763	782	0%	NA	NA												
Sterilization and Water Sampling	30 days	Mon 8/7/24	Tue 6/8/24	Calendar Day				NA	NA											•	
DN1200 MS Pipe - Portion I & Portion H (Total Water = 9700 cu.m)	30 days	Mon 8/7/24	Tue 6/8/24	Calendar Day	772,773,774,775,777,778	3,7 787	0%	NA	NA											-	
landover Portion I and Portion H to WSD Region	563 days	Tue 21/2/23	Thu 5/9/24	Calendar Day			0%		NA												
DN1200 MS Pipe - Portion I & Portion H (Area 137)	30 days	Wed 7/8/24	Thu 5/9/24	Calendar Day	782		0%	NA	NA												

Working Programme No. 15
Data Date : 24 May 2022

Milestone

Inactive Task

Manual Task

Manual Summary

Inactive Milestone

Duration-only

Stat-only

Finish-only

Deadline

Frogress

Critical Split

Progress

Critical Split

Progress

Critical Split

Progress

Finish-only

Deadline

Progress

Critical

Manual Progress

Page 1

			-	Territoria de la companya della companya della companya de la companya della comp		Project: Mainlaying in Tseung l	1-		1													
ask Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018	. = 1	2019 2019	2020		2021	r se r se.	2022		2023	2024	02   02   04	2025
ey Dates 2	2495 days	Tue 7/11/17	Thu 5/9/24	Calendar Day			0%	Tue 7/11/17	NA	Q4 Q1	Q2   Q3   Q4	Q1 Q2 C	03 Q4 Q1	Q2   Q3   Q	1 Q1 Q2	Q3 Q4	Q1   Q2	Q3   Q4	Q1   Q2   Q3	3   Q4   Q1   Q	Q2   Q3   Q4	Q1   Q2
	0 days	Tue 7/11/17	Tue 7/11/17	Calendar Day		67,59,60FS+27	100%	Tue 7/11/17	Tue 7/11/17	<b>*</b> 7/11												
		Thu 16/11/17		Calendar Day		days,61,62,58 4,5FS+730 days,6FS+1279																
Statute Sate	0 days					days									+							
Access Date of Portion A, B, C, D, E, F, G and J	0 days	Thu 16/11/17	Thu 16/11/17	Calendar Day	3	90,63,71,73,75,78,79	100%	Thu 16/11/17	Thu 16/11/17	V 10/11												
Access Date of Portion H	0 days	Sat 16/11/19	Sat 16/11/19	Calendar Day	3FS+730 days	110	100%	Sat 16/11/19	Sat 16/11/19				<b>♦</b> 16/11									
Completion Date (Contract)	0 days	Tue 18/5/21	Tue 18/5/21	Calendar Day	3FS+1279 days	7	100%	Tue 18/5/21	Tue 18/5/21						*	18/5						
EOT for CE No. 23 Inclement Weather - In June 2018	0 days	Tue 18/5/21	Tue 18/5/21	HK Working Da	у 6	8	100%	Tue 18/5/21	Tue 18/5/21						•	18/5						
EOT for CE No. 01	246 days	Wed 19/5/21	Wed 19/1/22	Calendar Day	7	9FF	0%	NA	NA								<b>•</b> 19/1					
Revised Completion Date	0 days	Wed 19/1/22	Wed 19/1/22	Calendar Day	8FF	11FS+365 days	0%	NA	NA								<b>•</b> 19/1					
	0 days	Thu 5/9/24	Thu 5/9/24	Calendar Day	12FF		0%	NA	NA												<b>♦</b> 5/9	
		Thu 19/1/23	Thu 19/1/23	Calendar Day	9FS+365 days		0%	NA	NA				-						♦ 19/1			
	0 days				51 51 505 days					-												
Mainlaying In Tseung Kwan O	2495 days	Tue 7/11/17	Thu 5/9/24	Calendar Day		10FF		Tue 7/11/17		Ĭ												
Issued Compensation Events (General)	1316 days	Tue 12/6/18	Tue 18/1/22	Calendar Day			100%	Tue 12/6/18	Tue 18/1/22													
Issue CE No. 03 - Upgrading of bandwidth of Internet Services for Site Accommodation	0 days	Tue 12/6/18	Tue 12/6/18	Calendar Day		68	100%	Tue 12/6/18	Tue 12/6/18		<b>♦</b> 12/6											
Issue CE No. 01 - Change in Pressure Rating of Watermain, Valves and Fittings from PN16	0 days	Thu 12/7/18	Thu 12/7/18	Calendar Day		68	100%	Thu 12/7/18	Thu 12/7/18		<b>•</b> 12/7											
to PN25 Issue CE No. 08 - Change in Number of Fixed IP Address for Broadband Connection for	0 days	Tue 4/12/18	Tue 4/12/18	Calendar Day			100%	Tue 4/12/18	Tue 4/12/18		•	4/12										
Site Accommodation Issue CE No. 10 - Contractor Design of The Realignment	0 days	Thu 28/2/19	Thu 28/2/19	Calendar Day			100%	Thu 28/2/19	Thu 28/2/19			♦ 28/2										
	0 days	Wed 15/5/19	Wed 15/5/19	Calendar Day			100%	Wed 15/5/19	Wed 15/5/19			♦ 15/	5									
	0 days	Fri 16/8/19	Fri 16/8/19	Calendar Day		85	100%	Fri 16/8/19	Fri 16/8/19				♦ 16/8									
issue of the formation of the first of the f								Tue 31/12/19				-	<b>*</b> 31.	/12								
Issue CE No. 35 - Feasibility Study on the Alternative Alignment by Trenchless Method in the Wan Po Road J/O Lohas Park Road		Tue 31/12/19	Tue 31/12/19										7.	<ul><li>22/5</li></ul>								
Issue CE No. 56 - Excavation of Inspection Pits for the Alternative Alignment (Batch No. 2)	0 days	Fri 22/5/20	Fri 22/5/20	Calendar Day			100%	Fri 22/5/20	Fri 22/5/20													
Issue CE No. 64 - Tree Survey at Tsui Lam (Location A and Location B)	0 days	Tue 9/6/20	Tue 9/6/20	Calendar Day			100%	Tue 9/6/20	Tue 9/6/20					<b>♦</b> 9/6								
13542 52 1151 1	0 days	Thu 13/8/20	Thu 13/8/20	Calendar Day			100%	Thu 13/8/20	Thu 13/8/20					♦ 13/8	3							
PMSMA10 Issue CE No. 66 - Excavation of Inspection Pits for the Alternative Alignment (Batch No.	0 days	Fri 21/8/20	Fri 21/8/20	Calendar Day			100%	Fri 21/8/20	Fri 21/8/20					<b>*</b> 21/	8	111111111111111111111111111111111111111						
	0 days	Mon 31/8/20	Mon 31/8/20	Calendar Day			100%	Mon 31/8/20	Mon 31/8/20					<b>*</b> 31.	/8							
Bituminous Pavement along TKO South Waterfront Promenade Issue CE No. 73 - Reinstatement of existing Geotextile in Area of Stage 1 Landfill	0 days	Wed 9/9/20	Wed 9/9/20	Calendar Day			100%	Wed 9/9/20	Wed 9/9/20					♦ 9/	9							
between Chainage FC12+20 and Chainage FC13+26	0 days	Tue 22/9/20	Tue 22/9/20	Calendar Day			100%	Tue 22/9/20	Tue 22/9/20					<b>*</b> 2	2/9							
				Calendar Day				Wed 23/9/20						<b>*</b> 2	3/9							
Existing Water Supply system	0 days														21/10							
Issue CE No. 82 - Suspension of Site Works due to Coronavirus Disease	0 days	Wed 21/10/20	Wed 21/10/20	Calendar Day				Wed 21/10/20														
Issue CE No. 85 - Affected Trees across the Natural Stream Course at Tsui Lam (Location A)	0 days	Wed 28/10/20	Wed 28/10/20	Calendar Day			100%	Wed 28/10/20	Wed 28/10/2	.0				•	28/10							
lssue CE No. 90 - Temporary Relocation of Bicycle Parking spaces near HK Velodrome	0 days	Mon 23/11/20	Mon 23/11/20	Calendar Day			100%	Mon 23/11/20	Mon 23/11/2	.0					▶ 23/11							
Issue CE No. 83 - Inspection pits for the Realignment in Wan Po Road and Lohas Park	0 days	Sat 19/12/20	Sat 19/12/20	Calendar Day			100%	Sat 19/12/20	Sat 19/12/20						<b>♦</b> 19/12							
Road Issue CE No. CE - Site Clearance of Affected Trees and Plants for Mainlaying works near	0 days	Fri 18/12/20	Fri 18/12/20	Calendar Day			100%	Fri 18/12/20	Fri 18/12/20						<b>♦</b> 18/12							
Po Hong Road and Ling Hong Road Issue CE No. 99 - Excavation of Inspection pit near Mau Wu Tsai Village at Po Lam Road		Wed 20/1/21	Wed 20/1/21	Calendar Day			100%	Wed 20/1/21	Wed 20/1/21						<b>20/1</b>							
South  Issue CE No. 101 - Uncharted Irrigation Pipe in TKO South Promenade Waterfront's Cycle		Fri 29/1/21	Fri 29/1/21	Calendar Day			100%	Fri 29/1/21	Fri 29/1/21						<b>29/1</b>							
Track at CH.FC6+64			Wed 10/2/21				100%		Wed 10/2/21						<b>*</b> 10/2							
	0 days														<ul><li>◆ 23/2</li></ul>							
Issue CE No. 105 - Suspension of Works in Wan Po Road 1st Works Site due to Shortage of Backfilling Material Caused by COVID-19	0 days	Tue 23/2/21	Tue 23/2/21	Calendar Day			100%															
	0 days	Fri 26/2/21	Fri 26/2/21	Calendar Day			100%	Fri 26/2/21	Fri 26/2/21						♦ 26/2							
	0 days	Fri 26/2/21	Fri 26/2/21	Calendar Day			100%	Fri 26/2/21	Fri 26/2/21						♦ 26/2	2						
Issue CE No. 108 - Works in Tsui Lam Section (Batch No.3) were Suspended due to	0 days	Fri 26/2/21	Fri 26/2/21	Calendar Day			100%	Fri 26/2/21	Fri 26/2/21						♦ 26/2	2					1	
Disruption to Supply of Construction Material Caused b COVID-19 Issue CE No. 107 - Affected Trees near Mau Wu Tsai Village between CH.HA0+00 and Ch.	. 0 days	Mon 8/3/21	Mon 8/3/21	Calendar Day			100%	Mon 8/3/21	Mon 8/3/21						♦ 8/3							
HA0+70 Issue CE No. 110 - Inaccessible to Works Area Ch.HA2+10 due to Deteriorated Concrete	0 days	Thu 8/4/21	Thu 8/4/21	Calendar Day			100%	Thu 8/4/21	Thu 8/4/21						<b>•</b> 8	/4						
Access																						

						Project: Mainlaying in Tseung	Kwan O													
ask Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018	201	9	2020	2021	2022	[2	023	2024 2024	2025	,
Issue CE No. 112 - Works Delayed in Portion H due to COVID-19	0 days	Wed 14/4/21	Wed 14/4/21	Calendar Day			100%	Wed 14/4/21	Wed 14/4/21	Q4 Q1 Q2	Q3 Q4 Q1	Q2   Q3   Q4	Q1   Q2   Q3	Q4 Q1 Q2 • 14		Q2   Q3   Q4	Q1   Q2   Q3	Q4 Q1 Q2	Q3   Q4   Q1	_ Q2   Q
Issue CE No. 113 - Special Cleaning of Workfronts from CH.A0+00 to CH.A13+70 at W.	an O days	Fri 30/4/21	Fri 30/4/21	Calendar Day			100%	Fri 30/4/21	Fri 30/4/21					<b>*</b> 3	30/4					
Po Road Issue CE No. 116 - Special Mosquito and Biting Midges Prevention Measures from	0 days	Mon 24/5/21	Mon 24/5/21	Calendar Day			100%	Mon 24/5/21	Mon 24/5/21					*	24/5					
CH.FB0+00 to Ch.FB5+34 and Ch.FC0+0 0to FC13+26 along TKO South Waterfront Issue CE No. 119 - Professional Indemnity Insurance for the Conforming Designs under	CE 0 days	Mon 31/5/21	Mon 31/5/21	Calendar Day			100%	Mon 31/5/21	Mon 31/5/21						31/5					
No.55, 62 and 77 Issue CE No. 120 - Left-in Sheet Pile for Manual Excavation in Po Lam Road at CH.HA6		Mon 31/5/21	Mon 31/5/21	Calendar Day			100%	Mon 31/5/21	Mon 31/5/21		1				31/5					
Issue CE No. 127 - Manual Excavation under Unexpectedly long and contonuous exte		Tue 12/10/21	Tue 12/10/21	Calendar Day			100%	Tue 12/10/21	Tue 12/10/21						<b>♦</b> 12/10					
of UU obstruction in Wan Po Road at CH. A0+88 Issue CE No. 129 - Special Cleaning of Workfronts from CH.HA0+00 to CH.A13+70 at \		Tue 26/10/21	Tue 26/10/21	Calendar Day			100%	Tue 26/10/21	Tue 26/10/21						<b>26/10</b>					
po Road in Sep 2021 Issue CE No. 100 - Additional Mainlaying Works at Ling Hong Road and HK Velodrome		Tue 14/12/21	Tue 14/12/21	Calendar Day			100%	Tue 14/12/21	Tue 14/12/21						<b>♦ 14/</b>	2				
Issue CE No. 131 - Additional Traffic Court and Analysis for TTA Application	0 days		Fri 24/12/21	Calendar Day			100%	Fri 24/12/21	Fri 24/12/21						♦ 24/	12				
Issue CE No. 138 - Additional Inspection Pits for Realignment of DN800 Water Main in			Fri 24/12/21	Calendar Day			100%	Fri 24/12/21	Fri 24/12/21						<ul><li>24/</li></ul>	12				
TKOFWPSR  Issue CE No. 141 - Provision of Suitable land Transport for Site Supervision in Tseung			Wed 29/12/21						1 Wed 29/12/21						<b>♦</b> 29	12				
Kwan O Area 137 (Dec 2021 - Sept 2022)  Issue CE No. 136 - Additional Resurfacing Works at Wan Po Road Near TKO Area 137			Fri 31/12/21	Calendar Day					Fri 31/12/21						<b>♦</b> 31	/12				
Issue CE No. 136 - Additional Resurracing Works at Wall Po Road (Real 180 Alea 23)  Issue CE No. 57 - Realignment of Water Main by Trenchless Method in SENTX Portion		Tue 18/1/22	Tue 18/1/22	Calendar Day		125FF			Tue 18/1/22						<b>♦</b> 1	3/1				
TKO Area 137	1636 days	Tue 7/11/17	Sat 30/4/22	Calendar Day					Sat 30/4/22											
Preliminaries	322 days		Mon 24/9/18						Mon 24/9/18		-		1	1=						
Submission and Permit Application	35 days	Tue 7/11/17		Calendar Day	2				Mon 11/12/17											
Submission of Safety Plan	45 days	Tue 7/11/17		Calendar Day					Thu 21/12/17											
Submission of Site Management Plan and Trip Ticket				Calendar Day					Sun 17/12/17											
Submission of Key People	14 days			Calendar Day					Wed 6/12/17											
Submission of Subcontractor Management Plan	30 days	Tue 7/11/17						Tue 7/11/17											-	
Submission of First Programme	7 days	Tue 7/11/17		Calendar Day		64		Thu 1/2/18	Tue 27/3/18				-						1	
Submission of Pipe Material (PN16)	54 days	Thu 1/2/18	Tue 27/3/18	Calendar Day  Calendar Day		92SS+7 days			Sat 11/8/18											
Approval of Pipe material submission (PN16)	137 days	Wed 28/3/18		Calendar Day		66	100%													
Appointment of Environmental Team	10 days	Wed 9/5/18 Tue 29/5/18	Fri 18/5/18 Thu 14/6/18	Calendar Day		00			Thu 14/6/18											
Environmental Baseline Monitoring	17 days 45 days			Calendar Day					Thu 21/12/17											
Submission of Environmental Management Plan Submission & Approval of CE01 Pipe Material PN25	75 days			Calendar Day		96			Mon 24/9/18											
10000000000000000000000000000000000000	1122 days		Fri 11/12/20	Calendar Day	1,,20				7 Fri 11/12/20	-				_						
Subcontracting Submission and Approval	122 days		Sat 17/3/18	Calendar Day					7 Sat 17/3/18											
Submission of sub-contractor selection procedure	24 days		Sat 9/12/17	Calendar Day	4	72			7 Sat 9/12/17											
Approval of sub-contractor selection procedure	42 days		Sat 20/1/18	Calendar Day		87,82,83FS+10 days,86	100%	Sun 10/12/17	7 Sat 20/1/18									1		
Submission of Sub-contractor Condition	14 days	Sun 21/1/18		Calendar Day	4	74	100%	Sun 21/1/18	Sat 3/2/18	1										
Approval of Sub-contractor Condition	42 days	Sun 4/2/18	Sat 17/3/18	Calendar Day	73	87,82,83FS+10 days,86	100%	Sun 4/2/18	Sat 17/3/18											
Submission of Supplier Selection Procedure	75 days			Calendar Day	4	76	100%	Thu 16/11/1	7 Mon 29/1/18											
Approval of Supplier Selection Procedure	42 days		Mon 12/3/18			92	100%	Tue 30/1/18	Mon 12/3/18	-										
Subcontractor Selection and Subcontracting	1115 days		Fri 11/12/20				100%	Thu 23/11/1	7 Fri 11/12/20	-										
Traffic Consultant for Investigation Works	30 days	Thu 23/11/17	Fri 22/12/17	Calendar Day	4		100%	Thu 23/11/1	7 Fri 22/12/17	-										
Consultancy: Landscape for Investigation works	30 days	Fri 5/1/18	Sat 3/2/18	Calendar Day	4	250	100%	Fri 5/1/18	Sat 3/2/18											
Consultancy: Traffic consultant	55 days	Wed 21/2/18		Calendar Day			100%	Wed 21/2/18	3 Mon 16/4/18											
Environmental Team	9 days	Mon 16/4/18		Calendar Day		65	100%	Mon 16/4/18	3 Tue 24/4/18	1										
Temporary site office, hoarding & project sign board	75 days	Thu 22/3/18	Mon 4/6/18	Calendar Day	74,72	89FS+13 days	100%	Thu 22/3/18	Mon 4/6/18											
Consultancy: Independent Checking Engineer	12 days		Fri 25/5/18	Calendar Day	72FS+10 days,74FS+10		100%	Mon 14/5/18	3 Fri 25/5/18											
Survey Services	23 days			Calendar Day	days		100%	Wed 26/9/18	3 Thu 18/10/18		•									
king Programme No. 15 Patho (24 May 2022 Split Project Summary		ive Milestone		ration-only anual Summary Rollup	Start-only Finish-only		aternal Milest Deadline	one 💠	Critical S Progress	plit ,										
Date: 24 May 2022  Milestone  Inactive Task		ual Task		enual Summary	External Tasks		'ritical		Manual I	rogress										

						Project: Mainlaying in	Tseung Kwan O		2.											
Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018	2019 2019	2020		2021	2022		2023	2024	2	2025
Sacrificial Anode Cathodic Protection (SACP)	82 days	Thu 30/5/19	Mon 19/8/19	Calendar Day	19	99	100%	Thu 30/5/19	Mon 19/8/19	Q4 Q1 Q2 Q3 Q4	Q1   Q2   Q3	Q4 Q1	Q2   Q3   Q4	Q1   Q2   Q3	Q4 Q1	Q2   Q3   Q4	4 Q1 Q2 Q	23 Q4 Q1 Q	2 Q3 Q4 C	Q1   Q2
	42 days	Thu 6/9/18	Wed 17/10/18	Calendar Day	72.74		100%	Thu 6/9/18	Wed 17/10/18	.8										
Landscaping Works									Fri 11/12/20											
Miscellaneous	1000 days	Sun 18/3/18	Fri 11/12/20	Calendar Day	74,72															
Site Establishment	220 days	Tue 2/1/18	Thu 9/8/18	Calendar Day				Tue 2/1/18	Thu 9/8/18											
Setting up PM's and Contractor Accommodation	90 days	Sat 12/5/18	Thu 9/8/18	Calendar Day	82FS+13 days		100%	Sat 12/5/18	Thu 9/8/18											
Initial Survey of the Site	60 days	Tue 2/1/18	Fri 2/3/18	Calendar Day	4		100%	Tue 2/1/18	Fri 2/3/18											
Procurement of Major Material	1485 days	Sat 7/4/18	Sat 30/4/22	Calendar Day			100%	Sat 7/4/18	Sat 30/4/22							7				
Preparation of Purchase Order	7 days	Sat 7/4/18	Fri 13/4/18	Calendar Day	64SS+7 days,76	93	100%	Sat 7/4/18	Fri 13/4/18											
1st Batch of Material Delivery	65 days	Sat 14/4/18	Sun 17/6/18	Calendar Day	92	94	100%	Sat 14/4/18	Sun 17/6/18											
1st Batch of Material Delivery on site	0 days	Fri 29/6/18	Fri 29/6/18	Calendar Day	93	95	100%	Fri 29/6/18	Fri 29/6/18	<b>♦</b> 29/6										
Material Delivery by Batches	1401 days	Sat 30/6/18	Sat 30/4/22	Calendar Day	94		100%	Sat 30/6/18	Sat 30/4/22			-								+
	7 days	Tue 25/9/18	Mon 1/10/18	Calendar Day	68	97	100%	Tue 25/9/18	Mon 1/10/18	3										
Preparation of CE01 Purchase Order			Sun 30/12/18			98		Tue 2/10/18												_
1st Batch of CE01 Material Delivery	90 days	Tue 2/10/18									1									
1st Batch of CE01 Material Delivery on site	1 day	Tue 22/1/19	Tue 22/1/19	Calendar Day					Tue 22/1/19							And the second s				
SCAP Material Submission and Approval	261 days	Tue 20/8/19	Wed 6/5/20	Calendar Day	85	100	100%	Tue 20/8/19	Wed 6/5/20											
SCAP Purchase Order & Material Delivery	115 days	Mon 22/6/20	Wed 14/10/20	Calendar Day	99		100%	Mon 22/6/20	Wed 14/10/20	20										
lainlaying in Tseung Kwan O Area 137 (Portion H)	1260 days	Tue 11/12/18	Wed 15/3/23	HK Working D	ay		92%	Tue 11/12/18	NA	•							-			
Early Possession of Portion H	0 days	Mon 29/7/19	Mon 29/7/19	Calendar Day			100%	Mon 29/7/19	Mon 29/7/19	9	*	29/7								
Issue Date of CE No. 07 -Water Supply to No. TKO Desalination Plant at Portion H	0 days	Tue 22/1/19	Tue 22/1/19	Calendar Day		104	100%	Tue 22/1/19	Tue 22/1/19		<b>♦</b> 22/1									
(NS250 HDPE Pipe) Material Procurement and Delivery in Batches	330 days	Tue 11/12/18	Tue 5/11/19	Calendar Day	103		100%	Tue 11/12/18	Tue 5/11/19											
Open Cut Excavation, Pipe Laying and Reinstatement at TKO Area 137	597 days	Sat 10/8/19		HK Working D	av	761	100%	Sat 10/8/19	Sat 14/8/21											
	341 days	Sat 10/8/19	Wed 30/9/20					Sat 10/8/19	Wed 30/9/20											
DN1200 MS PIPE + NS250 HDPE PIPE - Open Cut									Fri 24/7/20											-
CH.CT1+51 - CH.265 DN1200 MS Pipe OC	82 days	Thu 16/4/20	Fri 24/7/20	None																
CH.CT0+51 - CH.1+51 DN1200 MS Pipe OC	44 days	Mon 10/2/20		HK Working D				Mon 10/2/20												
CH.CT0+00 - CH.0+51 DN1200 MS Pipe OC	74 days	Thu 2/1/20	Tue 31/3/20	HK Working D	ay			Thu 2/1/20	Tue 31/3/20											
CH.CA0+00 - CH.4+00 DN1200 MS Pipe OC	192 days	Sat 10/8/19	Tue 31/3/20	HK Working D	ay 5		100%	Sat 10/8/19	Tue 31/3/20											
CH.KT2+80 - CH.3+60 NS250 HDPE Pipe OC with additional Tees and fire Hydra	ant 56 days	Tue 28/7/20	Wed 30/9/20	HK Working D	ay		100%	Tue 28/7/20	Wed 30/9/20	0										
CH.KT2+23 - CH.2+80 NS250 HDPE Pipe OC	29 days	Sat 20/6/20	Sat 25/7/20	HK Working D	ay		100%	Sat 20/6/20	Sat 25/7/20				-							
CH.KT1+51 - CH.2+23 NS250 HDPE Pipe OC	31 days	Sat 16/5/20	Sat 20/6/20	HK Working D	ay		100%	Sat 16/5/20	Sat 20/6/20											
CH.KT0+51 - CH.1+51 NS250 HDPE Pipe OC	19 days	Tue 10/3/20	Tue 31/3/20	HK Working D	ay		100%	Tue 10/3/20	Tue 31/3/20			•								
CH.KT0+00 - CH.0+51 NS250 HDPE Pipe OC	50 days	Sun 2/2/20	Tue 31/3/20	HK Working D	ay		100%	Sun 2/2/20	Tue 31/3/20											
CH.KAO+00 - CH.4+00 NS250 HDPE Pipe OC	143 days	Thu 10/10/19		HK Working D				Thu 10/10/19												
A distribution of the second s			100 100	HK Working D					Sat 14/8/21						,					
Construction of Chambers	385 days		Sat 14/8/21																	
Combined DAV & IT Chamber for DN1200 MS pipe at CH.CT2+47	60 days	Tue 5/5/20	Wed 15/7/20					Tue 5/5/20	Wed 15/7/20											
Combined Washout Pump Pit for DN1200 MS pipe and NS250 HDPE pipe at CH.CT2+43	71 days	Wed 3/6/20	Wed 26/8/20	HK Working D	ay			Wed 3/6/20	Wed 26/8/20											
DN900 Valve Chamber with by-pass pipes at CH.CA4+24	385 days	Wed 29/4/20	Sat 14/8/21	HK Working D	Pay		100%	Wed 29/4/20	Sat 14/8/21				200							
Trenchless Works (DN1200 MS PIPE + NS250 HDPE PIPE) at TKO Area 137	1162 days	Tue 22/1/19	Thu 22/12/22	HK Working E	Day	784,762	83%	Tue 22/1/19	NA											
Issue CE No. 07 - Water Supply to Tseung Kwan O Desalination Plant at Portion '	'H' 0 days	Tue 22/1/19	Tue 22/1/19	Calendar Day			100%	Tue 22/1/19	Tue 22/1/19		<b>♦</b> 22/1									
Issue CE No. 17 - Realignment of Water Main by Trenchless Method in TKO Area	a 137 O days	Wed 1/1/20	Wed 1/1/20	Calendar Day			100%	Wed 1/1/20	Wed 1/1/20			<b>♦</b> 1/1								
Issue CE No. 118 - Non-destructive Void detection survey in Tseung Kwan O Are		Tue 18/5/21	Tue 18/5/21	Calendar Day			100%	Tue 18/5/21	Tue 18/5/21					<b>♦</b> 18/	5					
between 137 Pit A and 137 Pit B Issue CE No. 57 - Realignment of Water Main by Trenchless Method in SENTX Po		Tue 18/1/22	Tue 18/1/22	Calendar Day	55FF	129	100%	Tue 18/1/22	Tue 18/1/22						<b>♦</b> 18/	/1				
	-1-			•																
in TKO Area 137 Tendering & Approval	21 days	Mon 6/1/20	Sun 26/1/20	Calendar Day			71111%	Mon 6/1/20	Sun 26/1/20											

		D.	C	Tractat.	Tasl. C-1 1	Dendagass	Project: Mainlaying in Ts	co.	Actual Ctast	Actual Die:-L												-		
ask l	Vame	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018	Q2   Q3   Q4	2019	2	020	2021	nt	2022	01 01	2023	m l ca l	2024	2 02 1 6	2025
	WSD instructed to retender	0 days	Fri 3/4/20	Fri 3/4/20	Calendar Day		128	100%	Fri 3/4/20	Fri 3/4/20	Q4 Q1	Q2   Q3   Q4	Q1   Q2	Q3   Q4   0	Q1   Q2   Q3 • 3/4	Q4   Q1	Q2   Q3	Q4   Q1	Q2   Q3	Q4 Q1	Q2 Q3	34 QI Q	2   Q5   Q	24   Q1   Q2
		43 days	Mon 18/5/20	Mon 29/6/20	Calendar Day	127	129	100%	Mon 18/5/20	Mon 29/6/20	)													
	necessary, and the second seco	1 day	Thu 3/9/20	Thu 3/9/20	Calendar Day	128.125	135	100%	Thu 3/9/20	Thu 3/9/20					1									
		156 days	Mon 2/9/19	Wed 11/3/20					Mon 2/9/19	Wed 11/3/20	1			-	-									
										Tue 15/10/19														
		35 days	Mon 2/9/19	Tue 15/10/19							<b>'</b>													
	Pit 137B	57 days	Mon 28/10/19	Sat 4/1/20	HK Working Da	ау			Mon 28/10/19															
	Pit 137C	14 days	Tue 25/2/20	Wed 11/3/20	HK Working Da	ау		100%	Tue 25/2/20	Wed 11/3/20	)													
	Construction of jacking / Receiving Pits	106 days	Mon 9/11/20	Thu 18/3/21	HK Working D	ay		100%	Mon 9/11/20	Thu 18/3/21														
	Mobilization and Setup & Preliminary Works	3 days	Mon 9/11/20	Wed 11/11/20	Calendar Day	129	136,137,138	100%	Mon 9/11/20	Wed 11/11/2	20					1								
	Receiving Pit 137A (Renopipe)	58 days	Mon 16/11/20	Mon 25/1/21	HK Working Da	ay 135	141FF-30 days	100%	Mon 16/11/20	Mon 25/1/21									livation .					
	Jacking Pit 137B (Renopipe)	59 days	Thu 12/11/20	Fri 22/1/21	HK Working Da	ay 135	140	100%	Thu 12/11/20	Fri 22/1/21														
	Receiving Pit 137C (Renopipe)	49 days	Mon 18/1/21	Thu 18/3/21	HK Working Da	ау 135	152	100%	Mon 18/1/21	Thu 18/3/21													1	
	TBM Pipe Jacking From Pit 137B to Pit 137A	410 days	Fri 22/1/21	Wed 15/6/22	HK Working D	ау	170	79%	Fri 22/1/21	NA						-								
		29 days	Fri 22/1/21	Sat 27/2/21	HK Working Da	ay 137	141	100%	Fri 22/1/21	Sat 27/2/21						-								
		42 days	Mon 1/3/21	Thu 22/4/21	HK Working Da	ay 140,136FF-30 days	142	100%	Mon 1/3/21	Thu 22/4/21												9 9 9 9 9 9		
	(CH.CC0+10 to CH.CC.1+24) in Soil mixed with rubbish (114m; 3m/day) Grouting and Remove setup at Pit 137A & Pit 137B	31 days	Fri 23/4/21	Mon 31/5/21	-		143	100%	Fri 23/4/21	Mon 31/5/21							•		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
		62 days	Wed 12/1/22	Mon 28/3/22	HK Working Da		145		Wed 12/1/22															
	Setup for Pipe Laying inside jacking Pits 137B to Pit 137A						146		Tue 29/3/22															
	DN1200 MS Pipe Laying inside jacking pipe (114m) (8m per 3 day)	14 days	Tue 29/3/22	Thu 14/4/22	HK Working Da													<b>*</b> 2	8/1					
	NS250 HDPE Pipe Laying inside jacking pipe (114m) (8m per day)	0 days	Fri 28/1/22	Fri 28/1/22	HK Working D		144		Fri 28/1/22	Fri 28/1/22									O/L					
	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	Tue 19/4/22	Thu 21/4/22	HK Working D	ay 144	147	0%	NA	NA														
	Grouting Works (20 meter/day)	6 days	Fri 22/4/22	Thu 28/4/22	HK Working D	ay 146	148	0%	NA	NA														
	Pipe Laying (HB, BVB, Short Pipe), Thrust Block & backfilling inside Pit 137A	24 days	Fri 29/4/22	Sat 28/5/22	HK Working D	ay 147	149	0%	NA	NA														
	Remove ELS and Extract Sheetpile at Pit 137A	2 days	Mon 30/5/22	Tue 31/5/22	HK Working D	ay 148	150	0%	NA	NA		-												
	Pipe Laying (DN1200 MS Pipe & NS250 HDPE Pipe) From Pit 137A to CH.CC1+38 &	12 days	Wed 1/6/22	Wed 15/6/22	HK Working D	ay 149		0%	NA	NA									U				The state of the s	
	KC1+38 TBM Pipe Jacking From Pit 137B to Pit 137C	578 days	Tue 12/1/21	Thu 22/12/22	HK Working D	Day		74%	Tue 12/1/21	NA						-				_				
	Revised Establishment at Pit 137B	39 days	Fri 19/3/21	Sat 8/5/21	HK Working D	ay 138	153	100%	Fri 19/3/21	Sat 8/5/21														
	O WPR920 Steel Sleeve Pipe for both DN1200 & NS250 (Pit 137C - Pit 137B)	144 days	Sun 9/5/21	Sat 30/10/21	HK Working D	ay 152	154	100%	Sun 9/5/21	Sat 30/10/21														-
	(CH.CB0+00 to CH.CB.2+46) in Soil mixed rubbish (246m; 1.5m/day) include 49 day Grouting, Remove setup at Pit 137C and Pit 137B	s 41 days	Mon 1/11/21	Fri 17/12/21	HK Working D	ay 153	155,143	100%	Mon 1/11/21	Fri 17/12/21								-						
	Setup for Pipe Laying inside jacking Pit 137B to Pit 137C	95 days	Tue 12/1/21	Tue 19/4/22	HK Working D	ay 154	157	100%	Tue 12/1/21	Tue 19/4/22						1111								
	DN1200 MS Pipe Laying inside jacking pipe (246m) (3 days per 8m)	93 days	Wed 20/4/22	Wed 10/8/22	HK Working D	ay 157	158	75%	Wed 20/4/22	NA														
		4 days	Sat 22/1/22	Thu 27/1/22			156		Sat 22/1/22	Thu 27/1/22								1						
	NS250 HDPE Pipe Laying inside jacking pipe (246m) (8m per day)		Thu 11/8/22	Sat 13/8/22	HK Working D		159	0%	NA	NA									1					
	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days																	1					
	Grouting Works (20 meter/day)	13 days	Mon 15/8/22		HK Working D		160	0%	NA	NA														
	Construction of Combined Inspection and Washout Chamber (Type III) at Pit 137C		Tue 30/8/22		HK Working D		162,161	0%	NA	NA														
	Pipe Connection Inside Pit 137C	6 days	Fri 11/11/22		HK Working D			0%	NA	NA														
	Pipe Laying (HB, BVB, Short Pipe), Thrust Block & backfilling inside Pit 137C	24 days	Fri 11/11/22	Thu 8/12/22	HK Working D	Day 160	163	0%	NA	NA														
	Remove ELS and Remove ELS and Extract Sheetpile at Pit 137C	12 days	Fri 9/12/22	Thu 22/12/22	HK Working D	Day 162		0%	NA	NA										,				
	Final Connection of NS250 HDPE Pipe to Existing at Wan Po Road	14 days	Tue 28/2/23	Wed 15/3/23	HK Working D	Day 788		0%	NA	NA										B				
	Mainlaying From Boundary of Tseung Kwan O Area 137 to TKO Fresh Water Service	1866 days	Tue 7/11/17	Mon 26/2/24	HK Working I	Day		74%	Tue 7/11/17	NA														
	Reservoir (Portion I)  Open Cut Excavation, Pipe Laying and Reinstatement at Wan Po Road	1506 days	Thu 30/8/18	Thu 28/9/23	HK Working I	Day		81%	Thu 30/8/18	NA		-												1
	Open Cut CH.A0+00 to CH.A3+62 (Pit 1)	1321 days	Mon 10/9/18	Sat 25/2/23	HK Working I	Day	762	88%	Mon 10/9/18	NA		-								7				
	Issue CE No. 76 - Unchartered Drain Pipe in Wan Po Road between CH.A1+12 and	0 days	Fri 30/10/20	Fri 30/10/20	Calendar Day			100%	Fri 30/10/20	Fri 30/10/20						<b>♦</b> 30/10								
	CH.A1+14																	4		1				

						Project: Mainlaying in Tse														
Task Name		Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018		2019 2019	2020	202	ı	2022		2023	2024 2024	2025
	Issue CE No. 96 - Diversion of Uncharged Irrigation pipe at CH.A2+34 at Wan Po	0 days	Mon 18/1/21	Mon 18/1/21	Calendar Day		100%	Mon 18/1/21	Mon 18/1/21	Q4 Q1 Q2		Q1   Q2   Q3   Q		Q3   Q4   Q1   • 1		24 Q1 Q2	2 Q3 Q4	Q1   Q2   Q3   0	Q4 Q1 Q2 Q3	Q4 Q1 Q2 Q
	Road CH.A0+00 - CH.A0+14 OC	45 days	Thu 16/6/22	Mon 8/8/22	HK Working Day 139		0%	NA	NA											
		156 days	Thu 23/5/19	Tue 26/11/19					Tue 26/11/19											
	CH.A0+14 - CH.A0+50 OC																			
	CH.A0+50 - CH.A1+50 OC	42 days	Mon 10/9/18		HK Working Day				Wed 31/10/18											
	CH.A1+50 - CH.A1+60 OC	53 days	Thu 1/11/18	Fri 4/1/19	HK Working Day		100%	Thu 1/11/18												
	CH.A1+60 - CH.A2+14 OC	107 days	Sat 5/1/19	Mon 20/5/19	HK Working Day		100%	Sat 5/1/19	Mon 20/5/19											
	CH.A2+14 - CH.A2+30 OC	150 days	Tue 1/9/20	Thu 4/3/21	HK Working Day		100%	Tue 1/9/20	Thu 4/3/21											
	CH.A2+30 - CH.A2+46 OC	105 days	Tue 27/10/20	Thu 4/3/21	HK Working Day		100%	Tue 27/10/20	Thu 4/3/21											
	CH.A2+46 - CH.A2+70 OC	93 days	Tue 10/11/20	Thu 4/3/21	HK Working Day	178	100%	Tue 10/11/20	Thu 4/3/21											
	CH.A2+70 - CH.A2+86 OC	74 days	Wed 2/12/20	Thu 4/3/21	HK Working Day 177		100%	Wed 2/12/20	Thu 4/3/21											
	CH.A2+86 - CH.A2+94 OC	48 days	Tue 5/1/21	Thu 4/3/21	HK Working Day	180	100%	Tue 5/1/21	Thu 4/3/21											
	CH.A2+94 - CH.A3+34.5 OC (Excluding Road reinstatement	218 days	Fri 5/3/21	Fri 26/11/21	HK Working Day 179	195	100%	Fri 5/3/21	Fri 26/11/21							•				
	CH.A3+34.5 - CH.A3+60 OC with DN150 DAV	60 days	Wed 4/5/22	Fri 15/7/22	HK Working Day 197	182	0%	NA	NA											
	CH.A3+60 and connecting to Pit 1	30 days	Tue 3/1/23	Thu 9/2/23	HK Working Day 209,181	211,183	0%	NA	. NA		-									
			Fri 10/2/23	Sat 25/2/23	HK Working Day 182		0%	NA	NA									1		
	Road reinstatement CH.A2+94 - CH.3+60	14 days				762								-						
	Trenchless Works (Pit 1 to Pit 2)	811 days	Mon 4/1/21	Thu 28/9/23	HK Working Day	762		Mon 4/1/21												
	Ground Investigation & Drilling Bored Hole at Receiving Pit 1	9 days	Tue 20/4/21	Thu 29/4/21	HK Working Day	192	100%	Tue 20/4/21	Thu 29/4/21											
	Setting out the inspection Pit for Jacking Pit 2	1 day	Mon 4/1/21	Mon 4/1/21	HK Working Day	187	100%	Mon 4/1/21	Mon 4/1/21											
	Mobilization and Excavation of Inspection Pit at Pit 2	28 days	Tue 5/1/21	Fri 5/2/21	HK Working Day 186	188	100%	Tue 5/1/21	Fri 5/2/21					-						
	Review alternative location for Pit 2 by WSD	29 days	Sat 6/2/21	Mon 15/3/21	HK Working Day 187	189	100%	Sat 6/2/21	Mon 15/3/21											
	Mobilization and excavation of Inspection Pit 2 after relocation	15 days	Tue 16/3/21	Thu 1/4/21	HK Working Day 188	190	100%	Tue 16/3/21	Thu 1/4/21											
	Mobilization; Ground Investigation & Drilling Bored Hole at Receiving Pit 2	17 days	Wed 7/4/21	Mon 26/4/21	HK Working Day 189	192	100%	Wed 7/4/21	Mon 26/4/21											
	Issue EWN no. 405	0 days	Tue 18/5/21	Tue 18/5/21	HK Working Day		100%	Tue 18/5/21	Tue 18/5/21						<b>♦</b> 18/5					
	Subletting and Re-Design for Pit 1 & Pit 2 (Changing from conventional sheet pilir	ng 84 days	Fri 30/4/21	Tue 10/8/21	HK Working Day 185,190	193	100%	Fri 30/4/21	Tue 10/8/21											
	method to pipe pilling method  Tendering, Subletting and Award for Constructing Pit 1 & Pit 2 (Pipe Pilling Metho		Wed 11/8/21	Tue 19/10/21	HK Working Day 192	198,196	100%	Wed 11/8/21	Tue 19/10/21											
	Construction of Jacking / Receiving Pits	157 days		1 Tue 3/5/22	HK Working Day		94%	Wed 20/10/2:	1 NA											
	Renopipe Release the working area for Luen Hing at Pit 1	0 days		Sat 27/11/21		196			Sat 27/11/21							<b>27/11</b>				
	Set up and Driving Pipe Piles and Grouting for Pit 1	50 days	Sat 27/11/21		HK Working Day 195,193	197		Sat 27/11/21												
	Excavation and ELS installation for Pit 1	48 days	Thu 3/3/22	Tue 3/5/22	HK Working Day 196	208,181		Thu 3/3/22												
	Renopipe Release the working area for Luen Hing TTA Implement at Pit 2	9 days	Wed 20/10/2	1 Fri 29/10/21	HK Working Day 193	199		Wed 20/10/21												
	Mobilization, Establishment, Driving Pipe Piles and Grouting for Pit 2	63 days	Sat 30/10/21	Fri 14/1/22	HK Working Day 198	200	100%	Sat 30/10/21	Fri 14/1/22											
	Excavation and ELS installation for Pit 2	82 days	Sat 15/1/22	Thu 28/4/22	HK Working Day 199	203	100%	Sat 15/1/22	Thu 28/4/22											
	TMB Pipe Jacking Pit 1- Pit 2	420 days	Wed 4/5/22	Thu 28/9/23	HK Working Day		4%	Wed 4/5/22	NA									7		
HE.	Additional GI Works beside Pit 2	12 days	Wed 4/5/22	Wed 18/5/22	HK Working Day	203	100%	Wed 4/5/22	Wed 18/5/22											
	Mobilization & setup at Pit 2	40 days	Thu 19/5/22	Wed 6/7/22	HK Working Day 200,202	204	0%	NA	NA											
	TBM Jacking Sleeve Pipe (L=138m, 2m/day)	69 days	Thu 7/7/22	Mon 26/9/22	HK Working Day 203	205	0%	NA	NA											
	Grouting and Remove Setup including Thrust Wall	14 days	Tue 27/9/22	Fri 14/10/22	HK Working Day 204	206	0%	NA	NA										-:	
	Setup Guard Rail	6 days	Sat 15/10/22			207	0%	NA	NA								1			
	Pipe Laying inside Sleeve Pipe (8m pipe, 3 days per Joint)	51 days			HK Working Day 206	208	0%	NA	NA											
									NA											
	Formwork & Setup for Grouting the Gap between Pipe and Sleeve	3 days		2 Fri 23/12/22		209	0%	NA												
	Grouting Works (30m/day)	5 days	Sat 24/12/22	Sat 31/12/22	HK Working Day 208	210,182	0%	NA	NA											
	Construction of Combined Inspection and Washout Chamber Type I at Pit 2		Tue 3/1/23		HK Working Day 209	217,218,220	0%	NA	NA											

						Project: Mainlaying in Tseung				
ask Name	2	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2019   2024   2025   2024   2026   2027   2027   2027   2028   2029
	Backfill, Remove ELS and Road Reinstatement at Pit 1	30 days	Fri 10/2/23	Thu 16/3/23	HK Working Day 182		0%	NA	NA	Q1 Q1 Q2 Q3 Q4 Q1 Q1 Q1 Q1 Q2 Q3 Q4 Q1
	Backfill. Remove ELS and Road Reinstatement at Pit 2	30 days	Fri 25/8/23	Thu 28/9/23	HK Working Day 217		0%	NA	NA	
	Open Cut CH.A5+29.5 (Pit 2) to CH.A7+12	1476 days	Thu 30/8/18	Thu 24/8/23	HK Working Day	762	80%	Thu 30/8/18	NA	
				Fri 1/2/19	Calendar Day				Fri 1/2/19	◆ 1/2
	Issue CE No. 06 - Unforeseen Underground Condition during Trench Excavation for Mainlaying at Wan Po Road between CH.A6+90 and CH.A7+10		Fri 1/2/19							
	Issue CE No. 22 - Instruction to change in Mainlayign Method at Wan Po Road between CH.A6+54 and A6+61	0 days	Mon 20/1/20	Mon 20/1/20	Calendar Day			Mon 20/1/20		
	Issue CE No. 25 - Unforeseen Underground Conditions during Trench Excavation at Wan Po Road between CH.A6+68 and CH.A6+88	0 days	Mon 29/6/20	Mon 29/6/20	Calendar Day		100%	Mon 29/6/20	Mon 29/6/20	
	CH.A5+16 and Connecting to Pit 2	30 days	Fri 21/7/23	Thu 24/8/23	HK Working Day 210,218	212	0%	NA	NA	
	CH.A5+16 - CH.A5+27 OC with DN900 Valve Chamber	115 days	Tue 28/2/23	Thu 20/7/23	HK Working Day 219,210	217	0%	NA	NA	
	CH.A6+54 - CH.A5+27 OC with SACP (CH.A6+00 - CH.A6+20)	272 days	Mon 28/12/20	Fri 26/11/21	HK Working Day 221	218,220	100%	Mon 28/12/20	Fri 26/11/21	
	Construction of Tee Branch and Monitoting Chamber at CH.A5+35	90 days	Tue 28/2/23	Mon 19/6/23	HK Working Day 210,219		0%	NA	NA	
	CH.A6+20 - CH.A6+54 OC	205 days	Wed 22/4/20	Sat 26/12/20	HK Working Day 222	219	100%	Wed 22/4/20	Sat 26/12/20	
		378 days	Mon 14/1/19	Sun 26/4/20	HK Working Day	221	100%	Mon 14/1/19	Sun 26/4/20	
	CH.A6+54 - CH.A6+70 OC + Handshield		Thu 30/8/18	Sat 12/1/19	HK Working Day	233		Thu 30/8/18		
	CH.A6+70 - CH.A7+12 OC	111 days								
	Open Cut CH.A7+12 to CH.A13+79.5	1323 days	Wed 19/9/18		HK Working Day	762,763		Wed 19/9/18		
	Issue CE No. 18 - Unforeseen Ground Condition at open trench of Mainlaying at Wan Po Road between CH/A12+89 and Ch.A13+04	0 days	Mon 27/5/19	Mon 27/5/19	Calendar Day		100%	Mon 27/5/19	Mon 27/5/19	
	Issue CE No. 20 - Traffic Count and Preliminary Traffic Analysis in Po Lam Road and Tsui Lam Road	0 days	Wed 19/6/19	Wed 19/6/19	Calendar Day		100%	Wed 19/6/19	Wed 19/6/19	9 • 19/6
	Issue CE No. 19 - Change in Design of Gate Valve Chamber at Wan Po Road near	0 days	Thu 22/8/19	Thu 22/8/19	Calendar Day		100%	Thu 22/8/19	Thu 22/8/19	♦ 22/8
	CH.A12+40 Issue CE No. 84 - Realignment of Water main in Wan Po Road Between CH.A7+35 -	- 0 days	Tue 22/6/21	Tue 22/6/21	Calendar Day	231	100%	Tue 22/6/21	Tue 22/6/21	\$ 22/6
	CH.ACH,A8+30 Issue CE No. 109 - Manual Excavation under Unexpectedly Long and Continuous	0 days	Mon 22/3/21	Mon 22/3/21	Calendar Day		100%	Mon 22/3/21	Mon 22/3/21	◆ 22/3
	Extend of UU obstruction in Wan Po Road at CH.A11+80 Issue CE No. 127 - Manual Excavation under Unexpectedly long and contonuous		Tue 12/10/21	Tue 12/10/21	Calendar Day		100%	Tue 12/10/21	Tue 12/10/21	\$\frac{12}{10}
	extent of UU obstruction in Wan Po Road at CH. A0+88	99 days	Tue 22/6/21		HK Working Day 228	232	100%	Tue 22/6/21	Tue 19/10/21	21
	Tendering, Subletting and Award for Trenchless Works (CE No. 84)					252		Wed 20/10/21		
	Submission and approval of Method Statement of Hand shield for CE No. 84	101 days			HK Working Day 231					
	CH.A7+12 - CH.A7+30 OC	111 days	Fri 26/2/21	Wed 14/7/21	HK Working Day 223	234	100%	Fri 26/2/21	Wed 14/7/21	
	CH.A7+30 - CH.A7+34 OC	41 days	Thu 15/7/21	Tue 31/8/21	HK Working Day 233	235	100%	Thu 15/7/21	Tue 31/8/21	
	CH.A7+34 - CH.A7+50 OC	80 days	Mon 18/10/21	Fri 21/1/22	HK Working Day 234	236,239	100%	Mon 18/10/21	Fri 21/1/22	
	CH.A7+50 - CH.A7+58 OC	36 days	Tue 7/12/21	Thu 20/1/22	HK Working Day 235	240,237	100%	Tue 7/12/21	Thu 20/1/22	2
	CH.A7+58 - CH.A7+82 OC	43 days	Fri 21/1/22	Tue 15/3/22	HK Working Day 236	240,238	100%	Fri 21/1/22	Tue 15/3/22	
	CH.A7+82 - CH.A8+23 Trenchless (Mobilization, Setup and Handshield)	85 days	Tue 19/4/22	Sat 30/7/22	HK Working Day 237,239	240	35%	Tue 19/4/22	NA	
	CH.A8+23 - CH.A8+63 OC	74 days	Fri 21/1/22	Mon 25/4/22	HK Working Day 235	238,240	100%	Fri 21/1/22	Mon 25/4/22	22
			Mon 1/8/22		2 HK Working Day 236,238,237,239		0%	NA	NA	
	CH.A8+63 - CH.A9+37 OC	100 days								
	CH.A9+37 - CH.A10+18 OC	81 days	Thu 3/3/22		HK Working Day		60%	Thu 3/3/22		
	CH.A10+18 - CH.A11+51 OC	340 days	Tue 5/1/21	Mon 28/2/22	HK Working Day		90%	Tue 5/1/21		
	CH.A11+51 - CH.A12+12 OC with DN600 IT & DN300 Washout Chamber at CH.A12+00	263 days	Tue 1/9/20	Fri 23/7/21	HK Working Day 244		100%	Tue 1/9/20	Fri 23/7/21	
	CH.A12+10 CH.A12+50 OC With DN900 Valve Chamber	451 days	Sat 23/2/19	Mon 31/8/20	HK Working Day 245,246	243	100%	Sat 23/2/19	Mon 31/8/20	.0
	CH.A12+50 - CH.A12+95 OC	125 days	Wed 19/9/18	Thu 21/2/19	HK Working Day	244	100%	Wed 19/9/18	Thu 21/2/19	,
	CH.A12+95 - CH.A13+13 OC	84 days	Fri 9/11/18	Thu 21/2/19	HK Working Day	244	100%	Fri 9/11/18	Thu 21/2/19	
	CH.A13+13 - CH.A13+40 OC + DN150 DAV	60 days	Fri 23/12/22	Thu 9/3/23	HK Working Day 248		0%	NA	NA	
	CH.A13+40 -CH.A 13+80 OC from Open Cut Trench to Jacking Pit A	60 days	Fri 14/10/22		HK Working Day 280	247,293	0%	NA	NA	
					HK Working Day			Tue 7/11/17		
	Trenchless Work at Wan Po Road From Pit A to Pit F	1866 days								
	Trial Pit Excavation for Pit 1 to Pit 20	462 days	Tue 20/2/18	Tue 10/9/19				Tue 20/2/18	× 8	
	Trenchless Works (Pit A to Pit D)	1354 days	Fri 2/8/19	Mon 26/2/24	HK Working Day	763	51%	Fri 2/8/19	NA	
	Issue CE No. 27 - Underground Utilities Detection Survey for Working Pit D (CH.	0 days	Fri 2/8/19	Fri 2/8/19	Calendar Day		100%	Fri 2/8/19	Fri 2/8/19	◆ 2/8
	A22+75)					F	atan 1 Mar		2	ol Calif
Dro	gramme No. 15 Task Summary  Split Project Summary		ive Milestone ive Summary		aration-only Start-only anual Summary Rollup Finish-only		xternal Milesto Seadline	ne 🐤	Critical : Progress	

Wan O Road at CH. A16+00 (Pit B) Issue CE No. 29 - Tree Transplant Works near CHA13+7  Issue CE No. 32 - Additional grouting Treatment works Wan O Road Issue CE No. 118 - Non-destructive Void Detection Surn 137Pit A and 137Pit B Issue CE No. 123 - Void Detection Survey in Wan Po Ro Expected CE No. 52 - Relocation of Working pits for Tre Road (Pit B to Pit D) Expected CE No. 58 - Relocation of Working pits for Tre Road (Pit A to Pit B)  Construction of Jacking / Receiving Pit A, B & C  Removal of Existing Planter for Jacking Pit A  Jacking Pit A with additional ground grouting works  Jacking / Receiving Pit B with additional ground grouting wor  Receiving Pit C with additional ground grouting wor  Construction of Jacking pit D  TTA submission and Approval , Suspension of Parking Pit D  Inspection Pits & GI Works for Jacking Pit D  Design Submission with ICE Certificate for Jacking Pit D  Approval of Design of Jacking Pit D  Approval Existing Sub-contractor to carry out Const Mobilization and Pipe Pile Wall Construction for Jacking Pit D at Car Park  New Routing From Pit A to Pit D)  Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield  XP Application for WPR, SKR and Open Trench at S  Trial Pit Excavation at Pit A1  Remove Central Divider between Wan O Road and Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to the state of t						Project: Mainlaying in Tseur	ing II in tall o												
Wan O Road at CH. A16+00 (Pit B) Issue CE No. 29 - Tree Transplant Works near CHA13+7 Issue CE No. 32 - Additional grouting Treatment works Wan O Road Issue CE No. 118 - Non-destructive Void Detection Survaire to Annual 137Pit B Issue CE No. 118 - Non-destructive Void Detection Survaire to Annual 137Pit B Issue CE No. 123 - Void Detection Survey in Wan Po Ro Expected CE No. 52 - Relocation of Working pits for Tre Road (Pit B to Pit D) Expected CE No. 58 - Relocation of Working pits for Tre Road (Pit A to Pit B) Construction of Jacking / Receiving Pit A, B & C  Removal of Existing Planter for Jacking Pit A Jacking Pit A with additional ground grouting works Jacking / Receiving Pit B with additional ground grouting wor  Construction of Jacking pit D  TTA submission and Approval , Suspension of Parkir for Jacking Pit D Inspection Pits & GI Works for Jacking Pit D  Design Submission with ICE Certificate for Jacking P Approval of Design of Jacking Pit D  Approval Existing Sub-contractor to carry out Const Mobilization and Pipe Pile Wall Construction for Jack Construction of Jacking Pit D at Car Park  New Routing From Pit A to Pit D)  Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield XP Application for WPR, SKR and Open Trench at S Trial Pit Excavation at Pit MPR  Trial Pit Excavation at Pit WPR  Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to t Pipe Laying (OC) from Pit A1 towward KLN (124m) Pipe Laying (OC) from Pit SKR to Pit D (Ist 200m) Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1 Construction of Pit WPR  Construction of Pit WPR  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)		Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2019	2019	2020	20	021	2022	20	023	2024 2024	2025
Wan O Road at CH. A16+00 (Pit B) Issue CE No. 29 - Tree Transplant Works near CHA13+7 Issue CE No. 32 - Additional grouting Treatment works Wan O Road Issue CE No. 113 - Non-destructive Void Detection Survaine in CE No. 113 - Non-destructive Void Detection Survaine in CE No. 123 - Void Detection Survey in Wan Po Ro Expected CE No. 52 - Relocation of Working pits for Tre Road (Pit B to Pit D) Expected CE No. 58 - Relocation of Working pits for Tre Road (Pit B to Pit D) Expected CE No. 58 - Relocation of Working pits for Tre Road (Pit A to Pit B) Construction of Jacking / Receiving Pit A, B & C  Removal of Existing Planter for Jacking Pit A  Jacking Pit A with additional ground grouting works  Jacking / Receiving Pit B with additional ground grouting wor  Construction of Jacking pit D  TTA submission and Approval , Suspension of Parkir for Jacking Pit D  Inspection Pits & GI Works for Jacking Pit D  Design Submission with ICE Certificate for Jacking P  Approval of Design of Jacking Pit D  Approval Existing Sub-contractor to carry out Const  Mobilization and Pipe Pile Wall Construction for Jacking Pit D  Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield  XP Application for WPR, SKR and Open Trench at S  Trial Pit Excavation at Pit A1  Remove Central Divider between Wan O Road amd  Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from PPR (N/B)(the 1st Lane to tothe Pipe Laying (OC) from PPR (N/B)(the 1st Lane to tothe Pipe Laying (OC) from PPR SKR to Pit D (Remaining 1)  Construction of Pit A1  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)		O dave	Thu 9/9/10	Thu 9/9/10	Calendar Day		100%	Thu 8/8/10	Thu 8/8/19	Q4 Q1 Q2 Q3	Q4 Q1 Q2	Q3   Q4   Q1   Q	Q2   Q3   Q4   Q	Q1   Q2   Q3	Q4 Q1	Q2   Q3   Q4   Q	21   Q2   Q3   Q4	Q1 Q2 Q3	Q4 Q1 Q2
Issue CE No. 32 - Additional grouting Treatment works Wan O Road Issue CE No. 118 - Non-destructive Void Detection Sur 137Pit A and 137Pit B Issue CE No. 123 - Void Detection Survey in Wan Po Ro Expected CE No. 52 - Relocation of Working pits for Tre Road (Pit B to Pit D) Expected CE No. 52 - Relocation of Working pits for Tre Road (Pit A to Pit B) Construction of Jacking / Receiving Pit A, B & C Removal of Existing Planter for Jacking Pit A Jacking Pit A with additional ground grouting works Jacking / Receiving Pit B with additional ground grouting work Receiving Pit C with additional ground grouting wor Construction of Jacking pit D  TTA submission and Approval , Suspension of Parkir for Jacking Pit D Inspection Pits & GI Works for Jacking Pit D Design Submission with ICE Certificate for Jacking P Approval of Design of Jacking Pit D Approval Existing Sub-contractor to carry out Const Mobilization and Pipe Pile Wall Construction for Jacking Pit D at Car Park  New Routing From Pit A to Pit D)  Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield XP Application for WPR, SKR and Open Trench at S Trial Pit Excavation at Pit MPR  Trial Pit Excavation at Pit WPR  Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m) Pipe Laying (OC) from Pit A1 towward KLN (124m) Pipe Laying (OC) from Pit SKR to Pit D (1st 200m) Pipe Laying (OC) from Pit SKR to Pit D (1st 200m) Pipe Laying (OC) from Pit SKR to Pit D (1st 200m) Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1 Construction of Pit A1  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)	emporary Diversion of Uncharted Underground Utilities near . A16+00 (Pit B)	0 days	Thu 8/8/19	Thu 8/8/19	Calendar Day														
Wan O Road  Issue CE No. 118 - Non-destructive Void Detection Surul 137Pit A and 137Pit B  Issue CE No. 123 - Void Detection Survey in Wan Po Road (Pit B to Pit D)  Expected CE No. 52 - Relocation of Working pits for Tre Road (Pit B to Pit D)  Expected CE No. 58 - Relocation of Working pits for Tre Road (Pit A to Pit B)  Construction of Jacking / Receiving Pit A, B & C  Removal of Existing Planter for Jacking Pit A  Jacking Pit A with additional ground grouting works  Jacking / Receiving Pit B with additional ground grouting wor  Receiving Pit C with additional ground grouting wor  Construction of Jacking pit D  TTA submission and Approval , Suspension of Parkir for Jacking Pit D  Inspection Pits & GI Works for Jacking Pit D  Design Submission with ICE Certificate for Jacking P  Approval of Design of Jacking Pit D  Approval Existing Sub-contractor to carry out Const Mobilization and Pipe Pile Wall Construction for Jacking Pit D at Car Park  New Routing From Pit A to Pit D)  Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield  XP Application for WPR, SKR and Open Trench at S  Trial Pit Excavation at Pit A1  Remove Central Divider between Wan O Road amd  Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)  Pipe Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1)  Construction of Pit MPR  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)		0 days	Thu 17/10/19	Thu 17/10/19	Calendar Day		100%	Thu 17/10/19	Thu 17/10/19			<b>◆</b> 17/10							
Issue CE No. 118 - Non-destructive Void Detection Surva 137Pit A and 137Pit B Issue CE No. 123 - Void Detection Survey in Wan Po Ro Road (Pit B to Pit D) Expected CE No. 52 - Relocation of Working pits for Tre Road (Pit B to Pit D) Expected CE No. 58 - Relocation of Working pits for Tre Road (Pit A to Pit B) Construction of Jacking / Receiving Pit A, B & C  Removal of Existing Planter for Jacking Pit A  Jacking Pit A with additional ground grouting works  Jacking / Receiving Pit B with additional ground grouting wor Receiving Pit C with additional ground grouting wor Construction of Jacking pit D  TTA submission and Approval , Suspension of Parkir for Jacking Pit D  Design Submission with ICE Certificate for Jacking Pit D  Approval of Design of Jacking Pit D  Approval Existing Sub-contractor to carry out Const Mobilization and Pipe Pile Wall Construction for Jacking Pit D at Car Park  New Routing From Pit A to Pit D)  Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield  XP Application for WPR, SKR and Open Trench at S  Trial Pit Excavation at Pit XI  Remove Central Divider between Wan O Road and Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1 Construction of Pit WPR  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)	dditional grouting Treatment works at Pit B in Wan Po Road ne	ear O days	Mon 31/8/20	Mon 31/8/20	Calendar Day		100%	Mon 31/8/20	Mon 31/8/20				♦ 31/8						
137Pit A and 137Pit B Issue CE No. 123 - Void Detection Survey in Wan Po Ro Expected CE No. 52 - Relocation of Working pits for Tre Road (Pit B to Pit D) Expected CE No. 58 - Relocation of Working pits for Tre Road (Pit A to Pit B) Construction of Jacking / Receiving Pit A, B & C  Removal of Existing Planter for Jacking Pit A  Jacking Pit A with additional ground grouting works  Jacking Pit C with additional ground grouting work  Receiving Pit C with additional ground grouting wor  Construction of Jacking pit D  TTA submission and Approval , Suspension of Parkir for Jacking Pit D  Inspection Pits & GI Works for Jacking Pit D  Design Submission with ICE Certificate for Jacking P  Approval of Design of Jacking Pit D  Approval Existing Sub-contractor to carry out Const  Mobilization and Pipe Pile Wall Construction for Jac  Construction of Jacking Pit D at Car Park  New Routing From Pit A to Pit D)  Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield  XP Application for WPR, SKR and Open Trench at S  Trial Pit Excavation at Pit XI  Remove Central Divider between Wan O Road and  Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to the pipe Laying (OC) grows WPR Junction with Wan OC)  (73m)  Pipe Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) from Pit SKR to Pit D (Ist 200m)  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1)  Construction of Pit A1  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)	Non-destructive Void Detection Survey in TKO Area 137 betwe	en 0 days	Tue 18/5/21	Tue 18/5/21	Calendar Day		100%	Tue 18/5/21	Tue 18/5/21					<b>♦</b> 18/5					
Expected CE No. 52 - Relocation of Working pits for Tre Road (Pit B to Pit D) Expected CE No. 58 - Relocation of Working pits for Tre Road (Pit A to Pit B)  Construction of Jacking / Receiving Pit A, B & C  Removal of Existing Planter for Jacking Pit A  Jacking Pit A with additional ground grouting works  Jacking / Receiving Pit B with additional ground grouting work  Receiving Pit C with additional ground grouting wor  Receiving Pit C with additional ground grouting wor  Construction of Jacking pit D  TTA submission and Approval, Suspension of Parkir for Jacking Pit D  Inspection Pits & GI Works for Jacking Pit D  Design Submission with ICE Certificate for Jacking P  Approval of Design of Jacking Pit D  Approval Existing Sub-contractor to carry out Const  Mobilization and Pipe Pile Wall Construction for Jack Construction of Jacking Pit D at Car Park  New Routing From Pit A to Pit D)  Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield XP Application for WPR, SKR and Open Trench at S  Trial Pit Excavation at Pit A1  Remove Central Divider between Wan O Road and Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit SKR  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to the Pipe Laying (OC) crossing WPR Junction with Wan OC (Tam)  Pipe Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1)  Construction of Pit A1  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)	it B		Fri 30/7/21	Fri 30/7/21	Calendar Day		100%	Fri 30/7/21	Fri 30/7/21					<b>♦ 30</b>	0/7				
Road (Pit B to Pit D) Expected CE No. 58 - Relocation of Working pits for Tre Road (Pit A to Pit B)  Construction of Jacking / Receiving Pit A, B & C  Removal of Existing Planter for Jacking Pit A  Jacking Pit A with additional ground grouting works  Jacking / Receiving Pit B with additional ground grouting wor  Receiving Pit C with additional ground grouting wor  Construction of Jacking pit D  TTA submission and Approval , Suspension of Parkir for Jacking Pit D  Inspection Pits & GI Works for Jacking Pit D  Design Submission with ICE Certificate for Jacking P  Approval of Design of Jacking Pit D  Approval Existing Sub-contractor to carry out Const  Mobilization and Pipe Pile Wall Construction for Jac  Construction of Jacking Pit D at Car Park  New Routing From Pit A to Pit D)  Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield  XP Application for WPR, SKR and Open Trench at S  Trial Pit Excavation at Pit A1  Remove Central Divider between Wan O Road amd  Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to the Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) crossing WPR Junction with Wan (173m)  Pipe Laying (OC) from Pit SKR to Pit D (Ist 200m)  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1)  Construction of Pit MPR  Construction of Pit WPR  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)					Calendar Day	259	0%	NA	NA							31/3			
Road (Pit A to Pit B)  Construction of Jacking / Receiving Pit A, B & C  Removal of Existing Planter for Jacking Pit A  Jacking Pit A with additional ground grouting works  Jacking / Receiving Pit B with additional ground grouting work  Receiving Pit C with additional ground grouting wor  Construction of Jacking pit D  TTA submission and Approval , Suspension of Parkir for Jacking Pit D  Inspection Pits & GI Works for Jacking Pit D  Design Submission with ICE Certificate for Jacking P  Approval of Design of Jacking Pit D  Approval Existing Sub-contractor to carry out Const Mobilization and Pipe Pile Wall Construction for Jacking Pit D at Car Park  New Routing From Pit A to Pit D)  Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield  XP Application for WPR, SKR and Open Trench at S  Trial Pit Excavation at Pit A1  Remove Central Divider between Wan O Road and Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to Pipe Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1)  Construction of Pit MPR  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)	)		Thu 31/3/22	Thu 31/3/22		239										31/3			
Removal of Existing Planter for Jacking Pit A  Jacking Pit A with additional ground grouting works  Jacking / Receiving Pit B with additional ground grouting wor  Receiving Pit C with additional ground grouting wor  Construction of Jacking pit D  TTA submission and Approval , Suspension of Parkir for Jacking Pit D  Inspection Pits & GI Works for Jacking Pit D  Design Submission with ICE Certificate for Jacking P  Approval of Design of Jacking Pit D  Approval Existing Sub-contractor to carry out Const Mobilization and Pipe Pile Wall Construction for Jacking Pit D at Car Park  New Routing From Pit A to Pit D)  Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield  XP Application for WPR, SKR and Open Trench at S  Trial Pit Excavation at Pit A1  Remove Central Divider between Wan O Road and Trial Pit Excavation at Pit WPR  Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to the Pipe Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1)  Construction of Pit A1  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)	8 - Relocation of Working pits for Trenchless Works in Wan Po	0 days	Thu 31/3/22	Thu 31/3/22	Calendar Day 258		0%	NA	NA						Ĭ	21/2			
Jacking Pit A with additional ground grouting works  Jacking / Receiving Pit B with additional ground grouting wor  Receiving Pit C with additional ground grouting wor  Construction of Jacking pit D  TTA submission and Approval , Suspension of Parking For Jacking Pit D Inspection Pits & GI Works for Jacking Pit D  Design Submission with ICE Certificate for Jacking P  Approval of Design of Jacking Pit D  Approval Existing Sub-contractor to carry out Const Mobilization and Pipe Pile Wall Construction for Jacking Pit D at Car Park  New Routing From Pit A to Pit D)  Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield  XP Application for WPR, SKR and Open Trench at S  Trial Pit Excavation at Pit A1  Remove Central Divider between Wan O Road and Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to Pipe Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1)  Construction of Pit A1  Construction of Pit WPR  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)		737 days	Mon 12/8/19	Sun 6/2/22	HK Working Day		100%	Mon 12/8/19	Sun 6/2/22										
Jacking / Receiving Pit B with additional ground grout Receiving Pit C with additional ground grouting wor  Construction of Jacking pit D  TTA submission and Approval , Suspension of Parkin for Jacking Pit D Inspection Pits & GI Works for Jacking Pit D  Design Submission with ICE Certificate for Jacking P  Approval of Design of Jacking Pit D  Approval Existing Sub-contractor to carry out Const.  Mobilization and Pipe Pile Wall Construction for Jacking Pit D at Car Park  New Routing From Pit A to Pit D)  Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield  XP Application for WPR, SKR and Open Trench at S  Trial Pit Excavation at Pit A1  Remove Central Divider between Wan O Road and Trial Pit Excavation at Pit WPR  Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to the Pipe Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1)  Construction of Pit A1  Construction of Pit WPR  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)	ting Planter for Jacking Pit A	6 days	Mon 15/6/20	Sat 20/6/20	HK Working Day	262	100%	Mon 15/6/20	Sat 20/6/20				1						
Jacking / Receiving Pit B with additional ground grout Receiving Pit C with additional ground grouting wor  Construction of Jacking pit D  TTA submission and Approval , Suspension of Parkir for Jacking Pit D Inspection Pits & GI Works for Jacking Pit D  Design Submission with ICE Certificate for Jacking P  Approval of Design of Jacking Pit D  Approval Existing Sub-contractor to carry out Const  Mobilization and Pipe Pile Wall Construction for Jacking Pit D at Car Park  New Routing From Pit A to Pit D)  Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield  XP Application for WPR, SKR and Open Trench at S  Trial Pit Excavation at Pit A1  Remove Central Divider between Wan O Road and  Trial Pit Excavation at Pit WPR  Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to the pipe Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1)  Construction of Pit MPR  Construction of Pit WPR  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)	h additional ground grouting works	462 days	Fri 17/7/20	Sun 6/2/22	HK Working Day 261		100%	Fri 17/7/20	Sun 6/2/22			The state of the s	Description of the last of the						
Receiving Pit C with additional ground grouting wor  Construction of Jacking pit D  TTA submission and Approval , Suspension of Parkir for Jacking Pit D Inspection Pits & GI Works for Jacking Pit D  Design Submission with ICE Certificate for Jacking P Approval of Design of Jacking Pit D  Approval Existing Sub-contractor to carry out Const Mobilization and Pipe Pile Wall Construction for Jacking Pit D at Car Park  New Routing From Pit A to Pit D)  Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield XP Application for WPR, SKR and Open Trench at S  Trial Pit Excavation at Pit A1  Remove Central Divider between Wan O Road and Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to Pipe Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1)  Construction of Pit A1  Construction of Pit WPR  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)		664 days	Mon 12/8/19	Fri 5/11/21	HK Working Day	299	100%	Mon 12/8/19	Fri 5/11/21										
TTA submission and Approval , Suspension of Parkir for Jacking Pit D Inspection Pits & GI Works for Jacking Pit D Design Submission with ICE Certificate for Jacking P Approval of Design of Jacking Pit D Approval Existing Sub-contractor to carry out Const Mobilization and Pipe Pile Wall Construction for Jacking Pit D at Car Park  New Routing From Pit A to Pit D)  Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield XP Application for WPR, SKR and Open Trench at S Trial Pit Excavation at Pit A1  Remove Central Divider between Wan O Road and Trial Pit Excavation at Pit WPR  Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to the pit Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1)  Construction of Pit A1  Construction of Pit WPR  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)																			
TTA submission and Approval , Suspension of Parkir for Jacking Pit D Inspection Pits & GI Works for Jacking Pit D Design Submission with ICE Certificate for Jacking P Approval of Design of Jacking Pit D Approval Existing Sub-contractor to carry out Const Mobilization and Pipe Pile Wall Construction for Jacking Pit D at Car Park  New Routing From Pit A to Pit D)  Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield XP Application for WPR, SKR and Open Trench at S Trial Pit Excavation at Pit A1 Remove Central Divider between Wan O Road amod Trial Pit Excavation at Pit WPR  Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m) Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to Pipe Laying (OC) along Central Divider to Pit WPR Pipe Laying (OC) from Pit SKR to Pit D (1st 200m) Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1) Construction of Pit A1 Construction of Pit WPR  Construction of Pit SKR Headshield Tunneling fom Pit A to Pit A1 (102m)	with additional ground grouting works	295 days	Fri 29/11/19	Thu 26/11/20	HK Working Day				Thu 26/11/20										
for Jacking Pit D Inspection Pits & GI Works for Jacking Pit D Design Submission with ICE Certificate for Jacking P Approval of Design of Jacking Pit D Approval Existing Sub-contractor to carry out Const Mobilization and Pipe Pile Wall Construction for Jacking Pit D at Car Park  New Routing From Pit A to Pit D)  Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield XP Application for WPR, SKR and Open Trench at S Trial Pit Excavation at Pit A1  Remove Central Divider between Wan O Road and Trial Pit Excavation at Pit WPR  Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to the Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1)  Construction of Pit A1  Construction of Pit WPR  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)	cking pit D	372 days	Wed 12/8/20	Thu 11/11/21	HK Working Day		100%	Wed 12/8/20	Thu 11/11/21										
Inspection Pits & GI Works for Jacking Pit D  Design Submission with ICE Certificate for Jacking P  Approval of Design of Jacking Pit D  Approval Existing Sub-contractor to carry out Const  Mobilization and Pipe Pile Wall Construction for Jacking Pit D at Car Park  New Routing From Pit A to Pit D)  Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield  XP Application for WPR, SKR and Open Trench at S  Trial Pit Excavation at Pit A1  Remove Central Divider between Wan O Road and Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to the Pipe Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1)  Construction of Pit A1  Construction of Pit WPR  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)	and Approval, Suspension of Parking Meters and TTA Implem	ent 112 days	Wed 12/8/20	Tue 1/12/20	Calendar Day	267	100%	Wed 12/8/20	Tue 1/12/20										
Approval of Design of Jacking Pit D  Approval Existing Sub-contractor to carry out Const Mobilization and Pipe Pile Wall Construction for Jacking Pit D at Car Park  New Routing From Pit A to Pit D)  Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield XP Application for WPR, SKR and Open Trench at S  Trial Pit Excavation at Pit A1  Remove Central Divider between Wan O Road and Trial Pit Excavation at Pit WPR  Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to the Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1) Construction of Pit A1  Construction of Pit WPR  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)		27 days	Wed 2/12/20	Tue 5/1/21	HK Working Day 266	317,268	100%	Wed 2/12/20	Tue 5/1/21				-						
Approval of Design of Jacking Pit D  Approval Existing Sub-contractor to carry out Const Mobilization and Pipe Pile Wall Construction for Jacking Pit D at Car Park  New Routing From Pit A to Pit D)  Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield XP Application for WPR, SKR and Open Trench at S  Trial Pit Excavation at Pit A1  Remove Central Divider between Wan O Road and Trial Pit Excavation at Pit WPR  Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to the Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1)  Construction of Pit A1  Construction of Pit WPR  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)		26 days	Fri 15/1/21	Wed 17/2/21	HK Working Day 267	269,270	100%	Fri 15/1/21	Wed 17/2/21				-						
Approval Existing Sub-contractor to carry out Const Mobilization and Pipe Pile Wall Construction for Jac Construction of Jacking Pit D at Car Park  New Routing From Pit A to Pit D)  Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield XP Application for WPR, SKR and Open Trench at S  Trial Pit Excavation at Pit A1  Remove Central Divider between Wan O Road amo Trial Pit Excavation at Pit WPR  Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to the Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1) Construction of Pit A1  Construction of Pit WPR  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)					HK Working Day 268	271			Fri 26/2/21					1					
Mobilization and Pipe Pile Wall Construction for Jac Construction of Jacking Pit D at Car Park  New Routing From Pit A to Pit D)  Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield XP Application for WPR, SKR and Open Trench at S  Trial Pit Excavation at Pit A1  Remove Central Divider between Wan O Road and Trial Pit Excavation at Pit WPR  Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to the Laying (OC) crossing WPR Junction with Wan (173m)  Pipe Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1)  Construction of Pit A1  Construction of Pit WPR  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)		8 days	Thu 18/2/21	Fri 26/2/21															
Construction of Jacking Pit D at Car Park  New Routing From Pit A to Pit D)  Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield  XP Application for WPR, SKR and Open Trench at S  Trial Pit Excavation at Pit A1  Remove Central Divider between Wan O Road and Trial Pit Excavation at Pit WPR  Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to the Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1)  Construction of Pit A1  Construction of Pit WPR  Construction of Pit SKR	ng Sub-contractor to carry out Construction of Jacking Pit D	0 days	Fri 26/3/21	Fri 26/3/21	HK Working Day 268	271	100%	Fri 26/3/21	Fri 26/3/21					<b>♦</b> 26/3					
New Routing From Pit A to Pit D)  Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield XP Application for WPR, SKR and Open Trench at S  Trial Pit Excavation at Pit A1  Remove Central Divider between Wan O Road amount of Pit Excavation at Pit WPR  Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to the Pipe Laying (OC) crossing WPR Junction with Wan (73m)  Pipe Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1)  Construction of Pit A1  Construction of Pit WPR  Construction of Pit SKR	d Pipe Pile Wall Construction for Jacking Pit D	78 days	Thu 1/4/21	Fri 9/7/21	HK Working Day 270,269	272	100%	Thu 1/4/21	Fri 9/7/21										
Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield XP Application for WPR, SKR and Open Trench at S Trial Pit Excavation at Pit A1  Remove Central Divider between Wan O Road and Trial Pit Excavation at Pit WPR  Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to the Laying (OC) crossing WPR Junction with Wan (173m)  Pipe Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1)  Construction of Pit A1  Construction of Pit WPR  Construction of Pit SKR	Jacking Pit D at Car Park	104 days	Sat 10/7/21	Thu 11/11/21	HK Working Day 271	303	100%	Sat 10/7/21	Thu 11/11/21										
Verbal Instructed to Change Pit A to Pit D by Trench Method & Handshield XP Application for WPR, SKR and Open Trench at S Trial Pit Excavation at Pit A1  Remove Central Divider between Wan O Road and Trial Pit Excavation at Pit WPR  Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to the Laying (OC) crossing WPR Junction with Wan (173m)  Pipe Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1)  Construction of Pit A1  Construction of Pit WPR  Construction of Pit SKR	n Pit A to Pit D)	553 days	Thu 14/4/22	Mon 26/2/24	HK Working Day		0%	Thu 14/4/22	NA						•			-	
Method & Handshield XP Application for WPR, SKR and Open Trench at S Trial Pit Excavation at Pit A1 Remove Central Divider between Wan O Road amd Trial Pit Excavation at Pit WPR Trial Pit Excavation at Pit SKR Pipe Laying (OC) from Pit A1 towward KLN (124m) Pipe Laying (OC) from WPR (N/B)(the 1st Lane to t Pipe Laying (OC) crossing WPR Junction with Wan (73m) Pipe Laying (OC) along Central Divider to Pit WPR Pipe Laying (OC) from Pit SKR to Pit D (1st 200m) Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1 Construction of Pit A1 Construction of Pit WPR Construction of Pit SKR Headshield Tunneling fom Pit A to Pit A1 (102m)		1 day	Thu 14/4/22	Thu 14/4/22	HK Working Day	275	100%	Thu 14/4/22	Thu 14/4/22							1			
Trial Pit Excavation at Pit A1  Remove Central Divider between Wan O Road and Trial Pit Excavation at Pit WPR  Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to the Laying (OC) crossing WPR Junction with Wan (173m)  Pipe Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1)  Construction of Pit A1  Construction of Pit WPR  Construction of Pit SKR	dshield																		
Remove Central Divider between Wan O Road and Trial Pit Excavation at Pit WPR  Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to the Laying (OC) crossing WPR Junction with Wan (173m)  Pipe Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1900)  Construction of Pit A1  Construction of Pit WPR  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)	for WPR, SKR and Open Trench at Shek Kok Road	60 days	Tue 19/4/22	Thu 30/6/22	HK Working Day 274	278,279,286	0%	NA	NA										
Trial Pit Excavation at Pit WPR  Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to the Laying (OC) crossing WPR Junction with Wand (73m)  Pipe Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1)  Construction of Pit A1  Construction of Pit WPR  Construction of Pit SKR	tion at Pit A1	3 days	Sat 14/5/22	Tue 17/5/22	HK Working Day		100%	Sat 14/5/22	Tue 17/5/22										
Trial Pit Excavation at Pit SKR  Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to the start of th	al Divider between Wan O Road amd Shek Kok Road	81 days	Mon 16/5/22	Fri 19/8/22	HK Working Day		0%	Mon 16/5/22	NA										
Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to the Laying (OC) crossing WPR Junction with Wan (173m)  Pipe Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1)  Construction of Pit A1  Construction of Pit WPR  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)	tion at Pit WPR	10 days	Sat 2/7/22	Wed 13/7/22	HK Working Day 275	287	0%	NA	NA							1			
Pipe Laying (OC) from Pit A1 towward KLN (124m)  Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to the Laying (OC) crossing WPR Junction with Wan (173m)  Pipe Laying (OC) along Central Divider to Pit WPR  Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1)  Construction of Pit A1  Construction of Pit WPR  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)	tion at Dit SKR	10 days	Sat 2/7/22	Wed 13/7/22	HK Working Day 275	288,285,284	0%	NA	NA							1			
Pipe Laying (OC) from WPR (N/B)(the 1st Lane to to the Pipe Laying (OC) crossing WPR Junction with Wan (73m) Pipe Laying (OC) along Central Divider to Pit WPR Pipe Laying (OC) from Pit SKR to Pit D (1st 200m) Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1) Construction of Pit A1 Construction of Pit WPR Construction of Pit SKR Headshield Tunneling fom Pit A to Pit A1 (102m)			Tue 17/5/22		HK Working Day	281,248		Tue 17/5/22	NA										
Pipe Laying (OC) crossing WPR Junction with Wan (73m) Pipe Laying (OC) along Central Divider to Pit WPR Pipe Laying (OC) from Pit SKR to Pit D (1st 200m) Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1 Construction of Pit A1 Construction of Pit WPR Construction of Pit SKR Headshield Tunneling fom Pit A to Pit A1 (102m)		124 days																	
(73m) Pipe Laying (OC) along Central Divider to Pit WPR Pipe Laying (OC) from Pit SKR to Pit D (1st 200m) Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1 Construction of Pit A1 Construction of Pit WPR Construction of Pit SKR Headshield Tunneling fom Pit A to Pit A1 (102m)	C) from WPR (N/B)(the 1st Lane to the 3rd lane) (30m)	60 days	Fri 14/10/22	Thu 22/12/22	HK Working Day 280	282	0%	NA	NA										
Pipe Laying (OC) along Central Divider to Pit WPR Pipe Laying (OC) from Pit SKR to Pit D (1st 200m) Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1 Construction of Pit A1 Construction of Pit WPR Construction of Pit SKR Headshield Tunneling fom Pit A to Pit A1 (102m)	C) crossing WPR Junction with Wan O Road to Central Divider	90 days	Fri 23/12/22	Tue 18/4/23	HK Working Day 281		0%	NA	NA										
Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)  Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1  Construction of Pit A1  Construction of Pit WPR  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)	C) along Central Divider to Pit WPR (340m)	340 days	Fri 20/5/22	Wed 12/7/23	HK Working Day	295,287	0%	Fri 20/5/22	NA										
Pipe Laying (OC) from Pit SKR to Pit D (Remaining 1 Construction of Pit A1 Construction of Pit WPR Construction of Pit SKR Headshield Tunneling fom Pit A to Pit A1 (102m)		200 days	Thu 14/7/22	Tue 14/3/23	HK Working Day 279	288	0%	NA	NA										
Construction of Pit A1  Construction of Pit WPR  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)		110 days	Thu 14/7/22		HK Working Day 279	297	0%	NA	NA										
Construction of Pit WPR  Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)																			
Construction of Pit SKR  Headshield Tunneling fom Pit A to Pit A1 (102m)	f Pit A1	90 days	Sat 2/7/22		HK Working Day 275	289		NA	NA										
Headshield Tunneling fom Pit A to Pit A1 (102m)	of Pit WPR	90 days	Thu 13/7/23	Sat 28/10/23	HK Working Day 278,283		0%	NA	NA										
	of Pit SKR	90 days	Wed 15/3/23	Thu 6/7/23	HK Working Day 279,284	290	0%	NA	NA		and the state of t								
	nneling fom Pit A to Pit A1 (102m)	170 days	Wed 19/10/2	2 Wed 17/5/23	HK Working Day 286	291	0%	NA	NA										
ricustineia runnenng toni ritoni to rit i i i i i i i i i		107 days	Fri 7/7/23	Sat 11/11/23	HK Working Day 288	292	0%	NA	NA										
140 Pt 1 1 1 0 0 1 1 1 Pt 1			Thu 18/5/23		Calendar Day 289	293,294		NA	NA										
MS Pipe Laying in Segment from Pit A to Pit A1		40 days															-		
MS Pipe Laying in Segment from Pit SKR to Pit WF	g in Segment from Pit SKR to Pit WPR	30 days	Sun 12/11/23	Mon 11/12/2	3 Calendar Day 290	295,296	0%	NA	NA										
	on works & Construction Special Combined Insepction and	60 days	Tue 27/6/23	Tue 5/9/23	HK Working Day 291,248		0%	NA	NA										
Washout Chamber at Pit A Pipe Connection works at Pit A1	mner ar PIT A	12 days	Tue 27/6/23	Tue 11/7/23	HK Working Day 291		0%	NA	NA										

							Project: Mainlaying in Tseu														
Name		Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2010	2019	2020	10	021	2022	20.	3	2024	2025	
		co.d	Tue 12/12/22	Mon 36/2/24	HK Working Do	202 283			NA	NA	Q4 Q1 Q2 Q3	Q4 Q1	Q2   Q3   Q4   Q1	Q2   Q3   Q4   2	Q1   Q2   Q3	Q4 Q1 Q2	Q3   Q4   Q	Q2 Q3 Q	Q1 Q2 Q3	Q4 Q1	Q2
	Pipe Connection Works and construction of Inspoection Chamber at Pit WPR	60 days	Tue 12/12/23																		
	Pipe Connection Works and construction of Washout Chamber at Pit SKR	60 days		Mon 26/2/24					NA	NA											
Т	Pipe Connection Works and construction of Washout Chamber at Pit D BM Pipe Jacking (Pit B to Pit C)	60 days 157 days	Wed 23/11/22 Mon 8/11/21	Tue 7/2/23 Mon 23/5/22	HK Working Day HK Working Day		de la late		NA Mon 8/11/21	NA Mon 23/5/22											
	Establishment at Pit B with additional ground treatment for stopping water	112 days	Mon 8/11/21	Thu 24/3/22	HK Working Day	263	300	100%	Mon 8/11/21	Thu 24/3/22									10 mm		
	ingress  Jacking DN1600 Precast Concrete Sleeve Pipe From Pit B to Pit C (L=326m;	30 days	Thu 24/3/22	Wed 4/5/22	HK Working Day	299	301	100%	Thu 24/3/22	Wed 4/5/22											
	2.5m/day) Extracting TBM and remove TBM from Pit B	15 days	Thu 5/5/22	Mon 23/5/22	HK Working Day	300		100%	Thu 5/5/22	Mon 23/5/22						•					
Т	IBM Pipe Jacking (Pit D to Pit C)	98 days	Mon 22/11/21	Wed 23/3/22	HK Working Day			100%	Mon 22/11/2	Wed 23/3/22						-			The state of the s		
	Establishment at Pit D	47 days	Mon 22/11/21	Tue 18/1/22	HK Working Day	272	304	100%	Mon 22/11/21	Tue 18/1/22											
	DN1920 Steel Jacked Pipe (Pit D - Pit C) (CH.A19+26 to CH.A22+80) in Soil (370n	n; 51 days	Wed 19/1/22	Tue 22/3/22	HK Working Day	303		100%	Wed 19/1/22	Tue 22/3/22											
	2.5m/day) Pipe Jacking stopped on 23/3/2022	0 days	Wed 23/3/22	Wed 23/3/22	HK Working Day			100%	Wed 23/3/22	Wed 23/3/22						<b>*</b> 23	3/3				
For Al	rm Pit D Crossing Wan Po Road and Lohas Park Road to TKO Landfill Stage I (Area		Tue 7/11/17	Wed 14/6/23			763	55%	Tue 7/11/17	NA											
1	ssue CE No. 24 - Ground Investigation for Working Pit E, F and Trenchless Works	0 days	Fri 27/9/19	Fri 27/9/19	Calendar Day		309	100%	Fri 27/9/19	Fri 27/9/19			<b>•</b> 27/9								
	across MT Tunnel ssue CE No. 80 - Site Clearance for Crossing Lohas Road Junction (Option 5)	0 days	Tue 3/11/20	Tue 3/11/20	Calendar Day			100%	Tue 3/11/20	Tue 3/11/20				<b>♦</b> 3/1	1						
7	Tender & Subletting	71 days	Fri 27/9/19	Fri 6/12/19	Calendar Day	307		100%	Fri 27/9/19	Fri 6/12/19											
ſ	Mobilization and Establishment of GI equipment	7 days	Mon 17/2/20	Mon 24/2/20	HK Working Day		311	100%	Mon 17/2/20	Mon 24/2/20			1								
(	Ground Investigation GI No. 3	33 days	Tue 25/2/20	Thu 2/4/20	HK Working Day	310		100%	Tue 25/2/20	Thu 2/4/20											
	Issue CE No. 77 - Design of Water Main Structure and Modification Works to the	0 days	Wed 21/10/20	Wed 21/10/20	Calendar Day		313,314,315	100%	Wed 21/10/20	Wed 21/10/2	0			<b>*</b> 21/	10						
1	Affected Geotechnical Features in Wan Po Road and Lohas Park Road Quotation Submission and Acceptant for CE No. 77	72 days			Calendar Day	312		100%	Wed 21/10/20	Thu 31/12/20											
	CE No. 77 - Submission of Geotechnical Assessment Repot	42 days		Tue 1/12/20	Calendar Day			100%	Wed 21/10/20	Tue 1/12/20				-							
	CE No. 77 - Design Submission	72 days		Thu 31/12/20	Calendar Day	312	316,317	100%	Wed 21/10/20	Thu 31/12/20		0									
		0 days	Fri 3/9/21	Fri 3/9/21	Calendar Day				Fri 3/9/21	Fri 3/9/21					•	3/9			1		
	CE No. 77 - Approval of Design Submission			Wed 11/8/21			319			Wed 11/8/21					<b>•</b> 1	11/8					
	Issue CE No. 67 - Realignment of Water Main near Wan Po Road and Lohas Park Road			Mon 14/3/22			348,347			Mon 14/3/22											
	Obtain MTR's approval on the alignment and construction method about MTR's tunnels			Tue 26/10/21	-		320,363			Tue 26/10/21											
	Tender Process and Tender Award for CE No. 67	77 days 125 days		Mon 28/2/22			348,318FF,347			1 Mon 28/2/22											
	TTA approval and Implement for CE No. 67  Handshield Crossing Wan Po Road (CH.FA0+15 to CH.FA0+50)	1484 days			HK Working Da		HET LEVEL TO BE TO SERVE		Tue 7/11/17		-										
			Mon 18/1/21	Mon 18/1/21			323			Mon 18/1/21					▶ 18/1						
	Issue CE No. 98 - Tree Felling at Lohas Park Road	0 days				222	324		Mon 18/1/21												
	TPRP Submission and Approval for Tree at Slope Feature 12SW-A/FR102	121 days		Tue 18/5/21	Calendar Day		324														
	Tree Felling and Tree Works at Slope Feature 12SW-A/FR102	7 days	Mon 21/6/21					100%		Mon 28/6/21							▶ 1/6				
	Approval TTA for Loading and Unloading at R27	0 days	Wed 1/6/22	Wed 1/6/22	HK Working Day		326	0%	NA	NA							4 1/0				
	Strengthen Works at Feature 12SW-A/R27	80 days	Wed 1/6/22	Sat 3/9/22	HK Working Day			0%	NA	NA											
	Strengthen Works at Feature 12SW-A/R28	98 days	Tue 14/12/21	Thu 14/4/22	HK Working Day	Y	329	100%	Tue 14/12/21	Thu 14/4/22											
	Concrete coring and breaking opening on Retaining Wall (R27)	1 day	Tue 7/11/17	Tue 7/11/17	None		335	0%	NA	NA											
	Concrete coring and breaking opening on Retaining Wall (R28)	30 days	Wed 27/4/22	Thu 2/6/22	HK Working Da	y 327	330	3%	Wed 27/4/22	NA											
	Handshield Establishment	14 days	Sat 4/6/22	Mon 20/6/22	HK Working Da	y 329	331	0%	NA	NA											
	Mild Steel Sleeve Pipe in Soil Mix (35m; 0.6m/day)	58 days	Tue 21/6/22	Sat 27/8/22	HK Working Da	у 330	332	0%	NA	NA											
	Remove establishment	6 days	Mon 29/8/22	Sat 3/9/22	HK Working Da	у 331	333	0%	NA	NA							ļ.				
	Setup for Pipe Laying inside jacking	6 days	Mon 5/9/22	Sat 10/9/22	HK Working Da	y 332	334	0%	NA	NA							1				
	DN900 MS Pipe Laying inside jacking pipe (35m) (say 3 days per 8m)	15 days	Tue 13/9/22	Thu 29/9/22	HK Working Da	y 333	335	0%	NA	NA							u				
	Formwork & Setup for Grouting the gap between pipe and Sleeve	6 days	Fri 30/9/22	Sat 8/10/22	HK Working Da	y 334,328	336	0%	NA	NA							1				
	Grouting Works (30 meter/day)	4 days	Mon 10/10/2	2 Thu 13/10/22	2 HK Working Da	y 335	337	0%	NA	NA							1				
	Pipe laying Works From Pit D to CH.FA0+15	24 days	Fri 14/10/22		2 HK Working Da		339	0%	NA	NA											
	Tipe taying monormonia is to construct to	_, ~~,	, 20, 22			•															
	mme No. 15 Task Summary		ive Milestone		ouration-only  Ianual Summary Rollup	Start-only Finish-only	E	External Milesto Deadline	ne 💠	Critical Progres											

	-	10	In	mal Calculus In 1	Project: Mainlaying in T	I'seung Kwan O	A atual Ct	Actual East-L	
	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2019   2024   2024   2018   2019   2020   2021   2021   2021   2022   2023   2024   2023   2024
rtical Pipes, Exposed Pipes & Burned Pipes above MTR Tunnels (CH.FA0+50 to	173 days	Fri 11/11/22	Wed 14/6/23	HK Working Day		0%	NA	NA	Q4 Q1 Q2 Q3 Q4 Q1 Q1 Q1 Q2 Q3 Q4 Q1 Q1 Q1 Q2 Q3 Q4 Q1 Q1 Q1 Q1 Q1 Q2 Q1
. <mark>.FA0+85)</mark> Vertical pipes with Concrete Surround	30 days	Fri 11/11/22	Thu 15/12/22	HK Working Day 337	340	0%	NA	NA	
Exposed pipes with concrete surround	30 days	Fri 16/12/22	Thu 26/1/23	HK Working Day 339	341	0%	NA	NA	
Open cut pipe laying with concrete surround	30 days	Wed 10/5/23	Wed 14/6/23	HK Working Day 359,340		0%	NA	NA	
	289 days	Thu 19/5/22	Tue 9/5/23	HK Working Day		0%	Thu 19/5/22	NA	
nd Shield Pipe Jacking crossing Lohas Park Road		Thu 19/5/22	Thu 19/5/22	HK Working Day	347	100%	Thu 19/5/22	Thu 19/5/22	19/5
MTR's Consent for Construction of Pit E	0 days				348	99%	Wed 1/6/22		▶ 1/6
MTR's Consent for Construction of Pit F	0 days	Wed 1/6/22	Wed 1/6/22	HK Working Day					<i>♦</i> 6/6
MTR's Consent for Construction of Pit G	0 days	Mon 6/6/22	Mon 6/6/22	HK Working Day	349	99%	Mon 6/6/22		◆ 13/6
Loading & Unloading TTA for Pit G	0 days	Mon 13/6/22	Mon 13/6/22	HK Working Day	349	99%	Mon 13/6/22	NA	13/0
Construction of Receiving Pit E	45 days	Mon 23/5/22	Fri 15/7/22	HK Working Day 318,320,343		0%	Mon 23/5/22	NA	
Construction of Jacking Pit F	45 days	Wed 1/6/22	Mon 25/7/22	HK Working Day 320,318,344	350	0%	NA	NA	
Construction of Receiving Pit G	45 days	Mon 13/6/22	Thu 4/8/22	HK Working Day 345,346		0%	NA	NA	
Establishment at Pit F	14 days	Tue 26/7/22	Wed 10/8/22	HK Working Day 348	351	0%	NA	NA	
Mild Steel Sleeve Pipe (Pit F - Pit E) in Soil Mix (40m; 0.4m/day)	100 days	Thu 11/8/22	Thu 8/12/22	HK Working Day 350	352	0%	NA	NA	
Mild Steel Sleeve Pipe (Pit F - Pit G) in Soil Mix (20m; 0.4m/day)	50 days	Fri 9/12/22	Sat 11/2/23	HK Working Day 351	353	0%	NA	NA	
Remove setup Including Thrust Wall at Pit F	6 days	Mon 13/2/23	Sat 18/2/23	HK Working Day 352	354	0%	NA	NA	
Setup for Pipe Laying inside jacking Pit F	6 days	Mon 20/2/23	Sat 25/2/23	HK Working Day 353	355	0%	NA	NA	
DN900 MS Pipe Laying from Pit F to Pit E (40m) (say 3 days per 4m)	30 days	Mon 27/2/23	Sat 1/4/23	HK Working Day 354	356	0%	NA	NA	
Modify Setup for Pipe Laying inside jacking Pit F	6 days	Mon 3/4/23	Thu 13/4/23	HK Working Day 355	357	0%	NA	NA	
	15 days	Fri 14/4/23	Tue 2/5/23	HK Working Day 356	358	0%	NA	NA	
DN900 MS Pipe Laying from Pit F to Pit G (20m) (say 3 days per 4m)		Wed 3/5/23	Fri 5/5/23	HK Working Day 357	359	0%	NA	NA	
Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days					0%	NA	NA	
Grouting Works (30 meter/day)	3 days	Sat 6/5/23	Tue 9/5/23	HK Working Day 358	341,361				
ertical Pipes, Exposed Pipes & Burned Pipes above MTR Tunnels (CH.FA1+50 to I.FA2+17)			Wed 14/6/23			59%	Tue 7/11/17		
Vertical pipes with Concrete Surround	30 days	Wed 10/5/23				0%	NA	NA	
Exposed pipes with concrete surround	60 days	Tue 15/2/22	Fri 29/4/22	HK Working Day 366		0%	NA	NA	
Site Clearance at Storage Yard	3 days	Mon 1/11/21	Wed 3/11/21	HK Working Day 319	366		Mon 1/11/21		
Plate Load Tests for Tower P2	34 days	Tue 9/11/21	Fri 17/12/21	HK Working Day		100%	Tue 9/11/21	Fri 17/12/21	
Construction footing of Tower P2 at CH.FA1+76	72 days	Sat 18/12/21	Fri 18/3/22	HK Working Day		100%	Sat 18/12/21	Fri 18/3/22	
Open cut pipe laying with concrete surround (CH.FA1+76 to CH.FA2+04)	82 days	Thu 4/11/21	Mon 14/2/22	HK Working Day 363	362	100%	Thu 4/11/21	Mon 14/2/2	22
Open cut pipe laying from CH.FA2+04 to CH.FB0+03 & Connect to DN900SV	42 days	Tue 7/11/17	Wed 27/12/1	7 HK Working Day		0%	NA	NA	
Chamber Cut Excavation, Pipe Laying and Reinstatement at TKO Landfill Stage 1 and TKO	1221 days	Thu 23/8/18	Fri 7/10/22	HK Working Day		91%	Thu 23/8/18	NA	
Waterfront Promenade e CE No. 05 - Feasibility Studey Realignment of pipline at Tseung Kwan O Stage I	I O days	Thu 23/8/18	Thu 23/8/18	Calendar Day		100%	Thu 23/8/18	Thu 23/8/18	8 • 23/8
dfill e CE No. 36 - Realignment of Watermain along the Bituminous Road adjacent to	0 days	Fri 22/5/20	Fri 22/5/20	Calendar Day		100%	Fri 22/5/20	Fri 22/5/20	◆ 22/5
as Park Road e CE No. 34 - Realignment of Watermain along TKO Stage I Landfill	0 days	Tue 5/11/19	Tue 5/11/19	Calendar Day		100%	Tue 5/11/19	Tue 5/11/19	9 ♦ 5/11
Landfill Stage I Area A (CH.FB0+00 to CH.FB5+34)	712 days	Fri 15/5/20	Fri 7/10/22	HK Working Day	764	85%	Fri 15/5/20	NA	
H.FB0+00 DN300 Washout Chamber	60 days	Tue 7/12/21	Mon 21/2/22	2 HK Working Day 374		0%	NA	NA	
:H.FB0+00 - CH.FB 1+66 OC with DN900 Valve Chamber with DN150 by-pass	372 days	Sat 5/9/20	Mon 6/12/21		373	100%	Sat 5/9/20	Mon 6/12/2	21
	379 days		Sat 21/8/21				Fri 15/5/20	Sat 21/8/21	
:H.FB1+66 - CH.FB 5+39 OC					201		Mon 12/4/21		
CH.FB5+34 - CH.FC 0+00 OC	101 days			HK Working Day 394	381				
CH.FB 5+34 DN300 DN600 IT Chamber	30 days	Tue 21/6/22			378	0%	NA	NA	
CH.FB 5+34 DN300 Washout Chamber	60 days		Fri 7/10/22	HK Working Day 377		0%	NA	NA	
O South Waterfront Promenade (CH.FC0+00 - CH.FC 4+87)	443 days	Wed 26/2/20	Tue 24/8/21	HK Working Day		100%	Wed 26/2/20	Tue 24/8/21	
Task Suramary	Inac	tive Milestone	1	Duration-only St.	art-only	External Milesto	one 💠	Critica	ral Split
e No. 15 Split Project Summary		tive Summary			nish-only	Deadline	4	Progre	ress and Progress

						Project: Mainlaying in Tse	ung Kwan O										
Task Na	me .	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	ctual Start	Actual Finish	2018	019 019   201	20	2021	2022	2023	2024 2024	2025
-	CHECONO CHECONOC	38 days	Mon 12/7/21	Tue 24/8/21	HK Working Day 381		100% M	1on 12/7/21	Tue 24/8/21	Q4 Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4 Q	1   Q2   Q3   Q4	Q1   Q2   Q3   Q4	Q1   Q2   Q3	Q4 Q1 Q2 Q3	Q4 Q1 Q2 Q3	Q4 Q1 Q2 Q3
			Sat 19/6/21	Tue 24/8/21	HK Working Day 382,376	380			Tue 24/8/21	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
		56 days							Mon 6/4/20								
		34 days	Wed 26/2/20	Mon 6/4/20	HK Working Day	383,381											
	CH.FC 0+95 - CH.FC 1+27 OC	30 days	Mon 6/4/20	Fri 15/5/20	HK Working Day 382	384			Fri 15/5/20								
	CH.FC 1+27 - CH.FC 1+59 OC	31 days	Fri 15/5/20	Fri 19/6/20	HK Working Day 383	385	100% F		Fri 19/6/20								
	CH.FC 1+59 - CH.FC 1+91 OC	21 days	Fri 19/6/20	Wed 15/7/20	HK Working Day 384	386	100% F	ri 19/6/20	Wed 15/7/20								
	CH.FC 1+91 - CH.FC 2+23 OC	29 days	Wed 15/7/20	Mon 17/8/20	HK Working Day 385	387	100% W	/ed 15/7/20	Mon 17/8/20								
	CH.FC 2+23 - CH.FC 2+55 OC	25 days	Mon 17/8/20	Mon 14/9/20	HK Working Day 386	388	100% N	10n 17/8/20	Mon 14/9/20			•					
	CH.FC 2+55 - CH.FC 2+87 OC	38 days	Mon 14/9/20	Fri 30/10/20	HK Working Day 387	389	100% N	10n 14/9/20	Fri 30/10/20								
	CH.FC 2+87 - CH.FC 3+19 OC	24 days	Fri 30/10/20	Thu 26/11/20	HK Working Day 388	390	100% F	ri 30/10/20	Thu 26/11/20								
-	CH.FC 3+19 - CH.FC 3+51 OC	20 days	Thu 26/11/20	Fri 18/12/20	HK Working Day 389	391	100% T	hu 26/11/20	Fri 18/12/20			•					
	CH.FC 3+51 - CH.FC 3+83 OC	30 days	Fri 18/12/20	Mon 25/1/21	HK Working Day 390	392	100% F	ri 18/12/20	Mon 25/1/21			1	•				
	CH.FC 3+83 - CH.FC 4+15 OC	24 days	Mon 25/1/21	Wed 24/2/21	HK Working Day 391	393	100% N	1on 25/1/21	Wed 24/2/21				I.				
		17 days	Wed 24/2/21	Mon 15/3/21	HK Working Day 392	394	100% V	Ved 24/2/21	Mon 15/3/21								
		21 days	Mon 15/3/21	Mon 12/4/21	HK Working Day 393	376	100% N	1on 15/3/21	Mon 12/4/21				-				
		458 days	Tue 24/3/20	Sat 9/10/21	HK Working Day		100% T	ue 24/3/20	Sat 9/10/21			-	-				
		72 days	Tue 24/3/20	Mon 22/6/20		397			Mon 22/6/20								
						398			Mon 27/7/20								
	CH.FC 5+19 - CH.FC 5+51 OC	29 days	Mon 22/6/20									-					
	CH.FC 5+51 - CH.FC 5+83 OC	32 days	Mon 27/7/20		HK Working Day 397	399			Tue 1/9/20			-					
	CH.FC 5+83 - CH.FC 6+15 OC	28 days	Tue 1/9/20	Mon 5/10/20		400		ue 1/9/20	Mon 5/10/20								
	CH.FC 6+15 - CH.FC 6+47 OC	27 days	Mon 5/10/20	Thu 5/11/20	HK Working Day 399	401			Thu 5/11/20								
	CH.FC 6+47 - CH.FC 6+79 OC	25 days	Thu 5/11/20	Thu 3/12/20	HK Working Day 400	402	100% T	hu 5/11/20	Thu 3/12/20			•					
	CH.FC 6+79 - CH.FC 7+11 OC	29 days	Thu 3/12/20	Fri 8/1/21	HK Working Day 401	403	100% T	hu 3/12/20	Fri 8/1/21								
	CH.FC 7+11 - CH.FC 7+43 OC	19 days	Fri 8/1/21	Fri 29/1/21	HK Working Day 402	404	100% F	ri 8/1/21	Fri 29/1/21				•				
	CH.FC 7+43 - CH.FC 7+75 OC	25 days	Sat 30/1/21	Wed 3/3/21	HK Working Day 403	405	100% S	at 30/1/21	Wed 3/3/21				•				
-	CH.FC 7+75 - CH.FC 8+07 OC	22 days	Wed 3/3/21	Sat 27/3/21	HK Working Day 404	406	100% V	Ved 3/3/21	Sat 27/3/21				•				
	CH.FC 8+07 - CH.FC 8+39 OC	40 days	Sat 27/3/21	Tue 18/5/21	HK Working Day 405	407	100% S	at 27/3/21	Tue 18/5/21								
+-	CH.FC 8+39 - CH.FC 8+43 OC	116 days	Mon 24/5/21	Sat 9/10/21	HK Working Day 406		100% N	/lon 24/5/21	Sat 9/10/21								
	CH.FC 8+43 - CH.FC 8+59 OC	39 days	Tue 24/8/21	Sat 9/10/21	HK Working Day	411	100% T	ue 24/8/21	Sat 9/10/21								
	TKO Landfill Stage I Area B (CH.FC 8+59 - CH.FC 13+26)	677 days	Tue 14/4/20	Tue 26/7/22	HK Working Day		89% T	ue 14/4/20	NA			-		-			
1	Construct DN150 DAV Chamber at CH.FC 9+83	30 days	Tue 21/6/22	Tue 26/7/22	HK Working Day 411		0% 1	۱A	NA	1							
	CH.FC 8+59 - CH.FC 9+83 OC	200 days	Fri 15/10/21		HK Working Day 412,408	423,377,410	80% F	ri 15/10/21	NA								
		402 days	Tue 14/4/20	Thu 19/8/21	HK Working Day	411			Thu 19/8/21								
	CH.FC 9+83 - CH.FC 13+26 OC with Monitoring Chamber				B HK Working Day	411		Wed 17/6/20								-	
	Water Mains Near Pung Loi Road (CH.FD0+00 - CH.A3+51)	1020 days							Wed 17/6/20			♦ 17/6					
	Issue CE No. 65 - Landscaping Survey near Po Yap and Pung Loi Road	0 days			Calendar Day								22/12				
	Issue CE No. 87 - Affected Trees near Pung Loi Road, Po Yap Road and Wan Po Road	0 days	Tue 22/12/20	Tue 22/12/20	Calendar Day	416			Tue 22/12/20				22/12				
	TPRP Submission and Approval	304 days	Tue 22/12/20	Thu 21/10/21	Calendar Day 415,614	417	100%	Tue 22/12/20	Thu 21/10/2								
7	Site Possession and Tree Removal Works	21 days	Fri 22/10/21	Thu 11/11/2	Calendar Day 416	427	100%	ri 22/10/21	Thu 11/11/2								
8	Issue CE No. 60 - Realignment of Water Main near Pung Loi Road	0 days	Thu 27/5/21	Thu 27/5/21	Calendar Day	419,421	100%	Γhu 27/5/21	Thu 27/5/21				<b>♦</b> 27/5				
19	Tender Process and Tender Award for CE No. 60	169 days	Thu 27/5/21	Thu 11/11/2	L Calendar Day 418	420	100%	Thu 27/5/21	Thu 11/11/2								
20	Design & Method Statement Submission and Approval; Preparation Works for CE No	o. 90 days	Sun 7/11/21	Fri 4/2/22	Calendar Day 419	424	100%	Sun 7/11/21	Fri 4/2/22								
21	60 TTA preparation, SLG meetings and obtain RA	188 days	Thu 27/5/21	Tue 30/11/2	L Calendar Day 418	427,429	100%	Γhu 27/5/21	Tue 30/11/2								
	rogramme No. 15 Task Summary Solit Project Summary		ive Milestone		uration-only Start-on Ianual Summary Rollup Finish-o		External Milestone Deadline	4	Critical Progres	plit							
	Split Project Summary  Split Project Summary  Milestone Inactive Task		ral Task		Ianual Summary External		Critical		Manual	rogress							

			Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018	2019   2019   Q4   Q1   Q2   Q3	2020	2021	2022	02   02   04	2023	2024	2025	7
	en Trench Crossing Pung Loi Avenue																	CM   rm	02
		156 days	Mon 20/6/22	Fri 23/12/22	HK Working Day		0%	NA	NA	Q4 Q1 Q2 Q3	Q4 Q1 Q2 Q3	Q4   Q1   Q2   Q3	Q4 Q1 Q2	Q3 Q4 Q1 V	Q2 Q3 Q4	QI Q2 Q3 Q4	QI QZ Q3	Qi Qi	Q2
		14 days	Mon 20/6/22	Thu 7/7/22	HK Working Day 411	424	0%	NA	NA					4"	1.				
,			Fri 8/7/22	Fri 4/11/22	HK Working Day 420,423	425	0%	NA	NA										
					HK Working Day 424				NA									_	
		42 days	Sat 5/11/22	Fri 23/12/22												-9			-
		337 days	Mon 3/1/22	Wed 22/2/23	HK Working Day			Mon 3/1/22										_	
	Excavation In Slope Toe; Construction of Flooding Protecxtion Wall with U-Channel, Length = 135m, @12m @18days	216 days	Wed 12/1/22	Thu 6/10/22	HK Working Day 421,417	428	50%	Wed 12/1/22	NA						\$ 1				
		42 days	Fri 7/10/22	Thu 24/11/22	HK Working Day 427	430	0%	NA	NA										
3	3 nos. Trial Pit Exacavtion under existing Flyover	14 days	Mon 3/1/22	Tue 18/1/22	HK Working Day 421		100%	Mon 3/1/22	Tue 18/1/22					•					
[	DN1200 Pipe Laying on Concrete Support with Concrete Hunching	65 days	Fri 25/11/22	Wed 15/2/23	HK Working Day 428	431,433	0%	NA	NA										
,	Apply top coating of aliphatic polyurethane on site	6 days	Thu 16/2/23	Wed 22/2/23	HK Working Day 430	435	0%	NA	NA							1			
		230 days	Thu 16/2/23	Thu 23/11/23	HK Working Day		0%	NA	NA							-			Ī
		90 days	Thu 16/2/23	Wed 7/6/23	HK Working Day 430	435,434	0%	NA	NA										
	CH.FDD3+15 to CH.FDD3+51 OC with DN900 Valve Chamber and By-pass Pipe and		Thu 8/6/23	Mon 11/9/23	HK Working Day 433	435,764,765	0%	NA	NA										+
(	Connection to Pit WPR1			Thu 23/11/23			0%	NA	NA										
	Make Good Slope Toe and Landscape Work	60 days	Tue 12/9/23			TOP.										-		-	-
Wate	er Mains near Pung Loi Road and Po Yap Road (CH.FE0+00 - CH.A3+58)	758 days	Thu 20/8/20	Sat 11/3/23	HK Working Day	765		Thu 20/8/20					_						
Tri	ial Pit at Working Pit WPR1	36 days	Thu 20/8/20	Wed 30/9/20	HK Working Day		100%	Thu 20/8/20	Wed 30/9/20										
Tri	ial Pit at Working Pit G1A	12 days	Sun 1/11/20	Sat 14/11/20	HK Working Day		100%	Sun 1/11/20	Sat 14/11/20										111111111111111111111111111111111111111
	ac at her of the man and the state of the st	0 days	Fri 13/11/20	Fri 13/11/20	Calendar Day	440,444	100%	Fri 13/11/20	Fri 13/11/20				\$ 13/11						
	oundabout ender Process and Tender Award for CE No. 59	99 days	Fri 13/11/20	Fri 19/2/21	Calendar Day 439	441	100%	Fri 13/11/20	Fri 19/2/21										-
De	esign & Method Statement Submission and Approval; Preparation Works for Pit J1A	93 days	Sat 20/2/21	Wed 16/6/21	HK Working Day 440	465,442,443	100%	Sat 20/2/21	Wed 16/6/21										
	esign & Method Statement Submission and Approval; Preparation Works for Pit		Thu 17/6/21	Sat 13/11/21	HK Working Day 441	452	100%	Thu 17/6/21	Sat 13/11/21										
G1	1A esign & Method Statement Submission and Approval ; Preparation Works for Pit	125 days	Thu 17/6/21	Sat 13/11/21	HK Working Day 441	450	100%	Thu 17/6/21	Sat 13/11/21										
W	/PR1	293 days	Fri 13/11/20	Wed 1/9/21	Calendar Day 439	448	100%	Fri 13/11/20	Wed 1/9/21										+
	rA preparation, SLG meetings and obtain RA				HK Working Day				NA							-			+
	renchless Crossing MTR Tunnels (Pit WPR1 to Pit G1A)	717 days	Fri 9/10/20	Sat 11/3/23														_	+
	Inspection Pit at Location of Pit G1A	19 days	Fri 9/10/20	Sun 1/11/20	HK Working Day				Sun 1/11/20					-				_	1
	Construction of Jacking Pit / Receiving Pit (TBM)	151 days	Wed 1/9/21	Sat 5/3/22	HK Working Day		100%	Wed 1/9/21	Sat 5/3/22										
	Obtain consent for vehicular access construction for WPR1	0 days	Wed 1/9/21	Wed 1/9/21	HK Working Day 444		100%	Wed 1/9/21	Wed 1/9/21					<b>•</b> 1/9					
	Tree Truning at WPR1	2 days	Wed 3/11/21	Thu 4/11/21	HK Working Day	450	100%	Wed 3/11/21	Thu 4/11/21				Constitution of the consti	1					
	Jacking Pit WPR1 (Near Pung Loi Road)	91.2 days	Fri 5/11/21	Sat 5/3/22	HK Working Day 449,443	454	100%	Fri 5/11/21	Sat 5/3/22			>							
	Planter Removal and Access Formation to pit G1A	13 days	Wed 1/9/21	Wed 15/9/21	HK Working Day	452	100%	Wed 1/9/21	Wed 15/9/21										
	Receiving Pit G1A (Near Po Yap Road)	91 days	Mon 27/9/21	Sat 15/1/22	HK Working Day 451,442	470,454	100%	Mon 27/9/21	Sat 15/1/22					=					
	TBM Pipe Jacking (WPR1 to J1A)	301 days	Mon 7/3/22	Sat 11/3/23	HK Working Day		14%	Mon 7/3/22	NA					-		-			
		38 days	Mon 7/3/22	Sat 23/4/22	HK Working Day 450,452	455	100%	Mon 7/3/22	Sat 23/4/22						1				
	TBM Establishment at Pit WPR1		Sun 24/4/22	Tue 6/9/22	HK Working Day 454	456	5%		NA										
	Jacking DN1600 Precast Concrete Sleeve Pipe (224m; 2.0m/day)	112 days							NA										-
	Remove setup including Thrust Wall at Pit WPR1	14 days	Wed 7/9/22	Fri 23/9/22	HK Working Day 455	457	0%	NA											
	Setup for Pipe Laying inside Jacking Pit WPR1	6 days	Sat 24/9/22	Fri 30/9/22	HK Working Day 456	458	0%	NA	NA										
	DN1200 MS Pipe Laying inside Jacking Pipe (224m) (3 days per 8m)	84 days	Mon 3/10/22	Thu 12/1/23	HK Working Day 457	459	0%	NA	NA										
	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	Fri 13/1/23	Mon 16/1/23	HK Working Day 458	460	0%	NA	NA							1			
	Grouting Works (30m per day)	8 days	Tue 17/1/23	Sat 28/1/23	HK Working Day 459	461	0%	NA	NA										
	Pipe Connection inside Working Pit WPR1	18 days	Mon 30/1/23	Sat 18/2/23	HK Working Day 460	462	0%	NA	NA										
	Remove ELS including extracting sheet piles at Pit WPR1; Reinstatement	18 days	Mon 20/2/23	Sat 11/3/23	HK Working Day 461		0%	NA	NA							10			
-	Trenchless Works (Pit G1A or Pit J1A)	320 days	Mon 3/5/21	Tue 31/5/22	HK Working Day		97%	Mon 3/5/21	NA				-		-				
	Heliciless Motos (Lit att of Lititata)								ger kirdet.										_

		a.	Pr 1	T 1 C-11	D., J.,	C	C.	Actual Start	Actual Finish										research	
Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	rectant Chingh	2018	02   02   04	2019 2019	2020	2 03 04 2	2021	2022	02   03   04   0	23 1   Q2   Q3   Q4	2024 2024 Q1   Q2   Q3	2025 Q4 Q1 0
Construction of Jacking Pit J1A (Hand Shield)	32 days	Mon 3/5/21	Wed 9/6/21	HK Working Day	/	TESTAGE.	100%	Mon 3/5/21	Wed 9/6/21	Q4 Q1	Q2 Q3 Q4	QI QZ Q3	Q4 Q1 Q.	2 05 04	Q1 Q2 Q.	Q4 Q1	22 03 04 0	1 42 43 41	4. 45 45	X. X.
Construction of Jacking Pit J1A	32 days	Mon 3/5/21	Wed 9/6/21	HK Working Day	441	467	100%	Mon 3/5/21	Wed 9/6/21						-					
	288 days	Thu 10/6/21	Tue 31/5/22	HK Working Day			96%	Thu 10/6/21	NA						-					
	16 days	Thu 10/6/21	Tue 29/6/21	HK Working Day	465	468	100%	Thu 10/6/21	Tue 29/6/21											
Establishman	101 days	Wed 30/6/21		HK Working Day	467	469	100%	Wed 30/6/21	Fri 29/10/21											
		Sat 30/10/21	Fri 5/11/21	HK Working Day		470		Sat 30/10/21								1				
	6 days		Wed 23/3/22			471		Tue 8/3/22	Wed 23/3/22											
Secup to 11 per any management of the security	14 days	Tue 8/3/22							Wed 18/5/22											
5/12256 Me ( ) - 1/18 Me -	42 days	Thu 24/3/22	Wed 18/5/22			472														
Formwork & Setup for Grouting the gap between pipe and Sleeve	8 days	Thu 19/5/22	Fri 27/5/22	HK Working Day		473		Thu 19/5/22												
Grouting Works (30 meter/day)	3 days	Sat 28/5/22	Tue 31/5/22	HK Working Day	472	475	0%	NA	NA											
Open Trench between Pit K and J1A	138 days	Tue 26/4/22	Tue 11/10/22	HK Working Da	У		7%	Tue 26/4/22	NA											
Pipe Laying From Pit K to Pit J1A (OC) (48m)	62 days	Tue 26/4/22	Sat 13/8/22	HK Working Day	473	476	13%	Tue 26/4/22	NA											
Construction of Thrust Block from Pit K to Pit J1A	15 days	Mon 15/8/22	Wed 31/8/22	HK Working Day	475	477	0%	NA	NA											
Backfill Trench and Remove ELS	18 days	Thu 1/9/22	Thu 22/9/22	HK Working Day	y 476	478	0%	NA	NA								•			
Reinstatement of Plant and Shrubs in Roundabout	14 days	Fri 23/9/22	Tue 11/10/22	HK Working Day	y 477		0%	NA	NA								u			
Trenchless Work from Po Yap Road Roundabout to KMB Depot (Pit K to Pit L) (Pit O to	822 days	Fri 28/2/20	Mon 5/12/22	HK Working Da	у	765	55%	Fri 28/2/20	NA				-							
Pit P)  Issue CE No. 50 - Realignment of Watermain at the Junction of Wan Po Road and Po		Thu 11/6/20	Thu 11/6/20	Calendar Day			100%	Thu 11/6/20	Thu 11/6/20					<b>11/6</b>						
Yap Road and the Junction of Po Hong Road and Po Shun Road.	263 days	Fri 28/2/20	Fri 15/1/21	HK Working Da	v		100%	Fri 28/2/20	Fri 15/1/21				-		•					
Constitution of Statement .	16 days	Fri 28/2/20	Tue 17/3/20	HK Working Da				Fri 28/2/20	Tue 17/3/20				-							
								Mon 29/6/20												
IIISPECTION IN ENTERON SERVICE	3 days	Mon 29/6/20	Thu 2/7/20	HK Working Da		405														
Forming temporary Vehicle Access for Pit P	10 days	Thu 16/7/20	Mon 27/7/20			486		Thu 16/7/20												
Jacking Pit K	15 days	Sat 14/11/20	Tue 1/12/20	HK Working Da	У	489			Tue 1/12/20											
Jacking Pit P + additional Grouting	137 days	Mon 3/8/20	Fri 15/1/21	HK Working Da	y 484			Mon 3/8/20												
Hand Shield Jacking (Pit K to Pit L)	125 days	Fri 11/12/20	Tue 18/5/21	HK Working Da	ny .		100%	Fri 11/12/20	Tue 18/5/21											
MTR'S Consent Obtained	0 days	Fri 11/12/20	Fri 11/12/20	HK Working Da	У		100%	Fri 11/12/20	Fri 11/12/20						11/12					
Establishment at Pit K	59 days	Mon 14/12/20	Fri 26/2/21	HK Working Da	y 485,531	490	100%	Mon 14/12/2	7 Fri 26/2/21											
Segment @400mm Sleeve Pipe (Pit L to Pit K)(~ 56m) in Soil (0.8m/day)	59 days	Mon 1/3/21	Thu 13/5/21	HK Working Da	y 489	491	100%	Mon 1/3/21	Thu 13/5/21											
Remove setup at Pit K	4 days	Thu 13/5/21	Tue 18/5/21	HK Working Da	y 490	499	100%	Thu 13/5/21	Tue 18/5/21						1					
TBM Pipe Jacking (Pit O to Pit P)	169 days	Wed 19/1/22	Tue 16/8/22	HK Working Da	ау		50%	Wed 19/1/22	NA								-			
WSD accepted to change Sub-Contractor from Wellcon to VTEC	0 days	Wed 16/2/22	Wed 16/2/22	HK Working Da	y 555		100%	Wed 16/2/22	Wed 16/2/22	2						<b>♦</b> 1	5/2			
	79 days	Wed 19/1/22	Thu 28/4/22	HK Working Da	ау	495	100%	Wed 19/1/22	Thu 28/4/22											
Jacking DN1600 Precast Concrete Sleeve Pipe (200m; 3.0m/day)	67 days	Fri 29/4/22	Wed 20/7/22	HK Working Da	y 494	496	8%	Fri 29/4/22	NA											
	9 days	Thu 21/7/22	Sat 30/7/22	HK Working Da	ay 495	508,497	0%	NA	NA								1			
Statute and the state of the st	14 days	Mon 1/8/22	Tue 16/8/22			508	0%	NA	NA											
Remove Pit setup at Pit P	116 days	Tue 14/12/21					1.00	Tue 14/12/2:	L NA							-	-			
DN1200 Pipelaying (Pit K to Pit L)				HK Working Da		500		Tue 14/12/21												
Setup for Pipe Laying inside jacking Pit K	6 days	Tue 14/12/21																		
DN1200 MS Pipe Laying inside jacking pipe (53m) (3 days per 4m) (Only Internal Coating)	15 days	Sat 8/1/22	Tue 25/1/22			501			Tue 25/1/22											
Formwork & Setup for Grouting the gap between pipe and Sleeve	2 days	Wed 26/1/22	Sat 29/1/22	HK Working Da	ay 500	502			Sat 29/1/22											
Grouting Works (30 meter/day)	4 days	Wed 9/2/22	Sat 12/2/22	HK Working Da	ay 501	503,505	100%		Sat 12/2/22											
Pipe Connection at Pit L	9 days	Thu 10/2/22	Sat 19/2/22	HK Working Da	ay 502	504	10%	Thu 10/2/22	NA							1				
Remove ELS at Pit L	24 days	Mon 21/2/22	Sat 19/3/22	HK Working Da	ay 503		0%	NA	NA							•				
Remove ELS at Pit K	24 days	Mon 14/2/22	Sat 12/3/22	HK Working Da	ay 502	506	0%	NA	NA											
																				de la managaria
g Programme No. 15	Inacti	ve Milestone ve Summary		Ouration-only  Manual Summary Rollup	Start-only Finish-only	E a	External Milesto Deadline	one 💠	Critica Progre			1111								

				The same of the sa	Project: Mainlaying in Tse	eung Kwan O											
ne	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018	2019	2020	10	021	2022	2024		2025
	45.1	M 14/2/22	W-4 11/5/22	UK Working Day EQE	515	0%	NA	NA	Q4 Q1 Q2 Q3	Q4 Q1 Q2	Q3 Q4 Q1	Q2   Q3   Q4	Q1   Q2   Q3   Q4	Q1   Q2   Q3   Q4   Q1	Q2   Q3   Q4   Q1	Q2   Q3   Q4	Q1 Q
Construction of DN900 Valve Chamber and DN150 By-pass Pipe & Valves Near Pit K	45 days	Mon 14/3/22		HK Working Day 505	515									<b>—</b>			
DN1200 Pipelaying (Pit P to Pit O)	92 days	Wed 17/8/22	Mon 5/12/22	HK Working Day		0%	NA	NA									
Setup for Pipe Laying inside jacking Pit O	6 days	Wed 17/8/22	Tue 23/8/22	HK Working Day 496,497	509	0%	NA	NA						1			
	70 days	Wed 24/8/22	Wed 16/11/22	HK Working Day 508	510	0%	NA	NA									
Coating) Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	Thu 17/11/22	Sat 19/11/22	HK Working Day 509	511	0%	NA	NA						1			
Grouting Works (30 meter/day)	6 days	Mon 21/11/22	Sat 26/11/22	HK Working Day 510	577,512,610	0%	NA	NA									
Pipe Connection at Pit O	6 days	Mon 28/11/22	Sat 3/12/22	HK Working Day 511	513	0%	NA	NA						1			
	1 day	Mon 5/12/22		HK Working Day 512		0%	NA	NA									
Remove ELS at Pit O							NA	NA						-			
Reinstatement of Po Yap Road Roundabout	66 days		Fri 29/7/22	HK Working Day													
Reinstatement Works	60 days	Thu 12/5/22	Fri 22/7/22	HK Working Day 506	516	0%	NA	NA									
Handover Inspection with LCSD	6 days	Sat 23/7/22	Fri 29/7/22	HK Working Day 515		0%	NA	NA									
renchless Work from Po Yap Road Roundabout (Hong Kong Velodrome)	1251 days	Tue 2/4/19	Mon 26/6/23	HK Working Day	765	80%	Tue 2/4/19	NA									
	0 days	Tue 2/4/19	Tue 2/4/19	Calendar Day	521,522	100%	Tue 2/4/19	Tue 2/4/19		2/4	4						
Velodrome and TKO stage 1 Landfill and CCTV survey of existing Drain at Cycle Track Issue CE No. 28 - Realignment of Water Mains along Po Yap Road and Po Hong Road	0 days	Mon 13/1/20	Mon 13/1/20	Calendar Day	521,522	100%	Mon 13/1/20	Mon 13/1/20			♦ 13	/1					
Issue CE No. 28A - Affected Trees along Cycle Track next to Hong Kong Velodrome and		Tue 30/6/20	Tue 30/6/20	Calendar Day		100%	Tue 30/6/20	Tue 30/6/20				<b>♦</b> 30/6					
Tseung Kwan O Sport Ground Tender and Subletting for CE No. 28	99 days	Mon 18/11/19	Mon 24/2/20	Calendar Day 519,518		100%	Mon 18/11/1	9 Mon 24/2/20									
	128 days	Mon 13/1/20	Tue 19/5/20	Calendar Day 519,518	523	100%	Mon 13/1/20	Tue 19/5/20									
TTA preparation, SLG meetings, obtain RA and TPRP Approval for Temporary Vehicular Access at HK Velodrome																	
Coordination with LCSD and Notification to District Councilors	14 days	Wed 20/5/20	Tue 2/6/20	Calendar Day 522	524		Wed 20/5/20										
Form Temporary Vehicle Access at TKO Sport Ground	5 days	Mon 1/6/20	Mon 8/6/20	HK Working Day 523	525	100%	Mon 1/6/20	Mon 8/6/20				ı					
Tree Transplanting Working & Tree Removal Works at TKO Sport Ground (CE No. 28)	10 days	Tue 9/6/20	Fri 19/6/20	HK Working Day 524	526	100%	Tue 9/6/20	Fri 19/6/20				•					
Tree Pruning Working for driving Sheetpile at Pit M, Pit N & Pit O	3 days	Sat 20/6/20	Tue 23/6/20	HK Working Day 525	527	100%	Sat 20/6/20	Tue 23/6/20									
Mobilization of Sheet-piles and Driving Machines	7 days	Wed 24/6/20	Fri 3/7/20	HK Working Day 526	534,532	100%	Wed 24/6/20	Fri 3/7/20						1			
Works suspended by closure of vehicular access at Velodrome	8 days	Mon 10/5/21	Mon 17/5/21	Calendar Day		100%	Mon 10/5/21	Mon 17/5/21					1				
Trenchless Works (Pit L to Pit O)	882 days	Sat 4/7/20	Mon 26/6/23	HK Working Day		77%	Sat 4/7/20	NA				-			-		
Construction of Jacking Pit & Receiving Pit	175 days	Sat 4/7/20	Sat 30/1/21	HK Working Day		100%	Sat 4/7/20	Sat 30/1/21				-	•				
Receiving Pit L	81 days	Sat 24/10/20	Sat 30/1/21	HK Working Day 532	489	100%	Sat 24/10/20	Sat 30/1/21									
		Sat 11/7/20	Sat 24/10/20	HK Working Day 527	531,547		Sat 11/7/20										
Jacking Pit M	89 days				331,347												
Receiving Pit N	66 days	Thu 30/7/20	Fri 16/10/20	HK Working Day			Thu 30/7/20						100				
Jacking / Receiving Pit O + additional Grouting	124 days	Sat 4/7/20	Sat 28/11/20	HK Working Day 527	551	100%	Sat 4/7/20	Sat 28/11/20									
TBM Pipe Jacking (Pit M to Pit L)	273 days	Thu 13/5/21	Mon 11/4/22	HK Working Day		100%	Thu 13/5/21	Mon 11/4/22									
Re-establishment at Pit M for changing jacking direction	64 days	Thu 13/5/21	Thu 29/7/21	HK Working Day 549	537	100%	Thu 13/5/21	Thu 29/7/21									
DN1600 Precast Concrete Sleeve Pipe (Pit M - Pit L) approx. 10m	12 days	Fri 30/7/21	Thu 12/8/21	HK Working Day 536	538,539	100%	Fri 30/7/21	Thu 12/8/21					1				
TBM suspended, review for Rescue pit construction	5 days	Fri 13/8/21	Wed 18/8/21	HK Working Day 537	540	100%	Fri 13/8/21	Wed 18/8/21					1	1			
Review and study the alternative construction method (Open Cut in normal	26 days	Fri 13/8/21	Sun 12/9/21	HK Working Day 537	544	100%	Fri 13/8/21	Sun 12/9/21									
condition) Rescue Pit Construction & Retrieval of TBM	39 days	Thu 19/8/21	Tue 5/10/21	HK Working Day 538	541	100%	Thu 19/8/21	Tue 5/10/21									
Set up working platform and lifting grantry at Rescue Pit for Handshield; Formin		Mon 11/10/21		HK Working Day 540	542			21 Sat 6/11/21									
Entrance								Thu 2/12/21									
Hand dig tunnel between Pit M and Rescue Pit	22 days	Mon 8/11/21		HK Working Day 541	543												
Remove setup & removal of Thrust wall	14 days	Fri 3/12/21	Sat 18/12/21	HK Working Day 542	560		Fri 3/12/21	Sat 18/12/21									
WSD accepted Alternative Scheme from Pit O to Pit L	0 days	Mon 6/9/21	Mon 6/9/21	HK Working Day 539	545	100%	Mon 6/9/21	Mon 6/9/21					<b>♦</b> 6/9				
Water mains by Open Cut Method (West Portion - 143m)	171 days	Mon 13/9/21	Mon 11/4/22	HK Working Day 544	560,499	100%	Mon 13/9/2	Mon 11/4/22									
TBM Pipe Jacking (Pit M to Pit N)	159 days	Mon 26/10/20	Wed 12/5/21	HK Working Day		100%	Mon 26/10/	20 Wed 12/5/21				-	-				
Establishment at Pit M	29 days	Mon 26/10/20	Sat 28/11/20	HK Working Day 532	548	100%	Mon 26/10/	20 Sat 28/11/20									
ogramme No. 15 Task Summary Solit Project Summary		ve Milestone			Start-only E Finish-only	External Milesto Deadline	one 💠	Critical Sp Progress	lit								
Split Project Summary  24 May 2022  Milestone Inactive Task		al Task			External Tasks	Critical		Manual Pr	TOTTON V								

			1-	lev		Project: Mainlaying in Tseung		L. 10	A									
ask Name		Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018	20	9 2020	) 20	21	2022	2023	2024 2024	2025
	DN1600 Precast Concrete Sleeve Pipe (Pit M - Pit N) (CH.GA1+86 to CH.GA3+20)	119 days	Mon 30/11/20	Wed 28/4/21	HK Working Day 547	549	100%	Mon 30/11/20	Wed 28/4/21	Q4 Q1 Q2	Q3 Q4 Q	1 Q2 Q3 Q4 Q1	Q2 Q3 Q4 Q	01   Q2   Q3   Q4	Q1   Q2   Q3	Q4 Q1 Q2 Q3	Q4 Q1 Q2 Q3	Q4 Q1 Q2
	in Soil (134m; 3.5m/day)					536	100%	Thu 29/4/21	Wed 12/5/21									
		11 days	Thu 29/4/21		HK Working Day 548	550												
	TBM Pipe Jacking (Pit O to Pit N)	226 days	Mon 30/11/20	Mon 6/9/21	HK Working Day		100%	Mon 30/11/20	Mon 6/9/21					¥				
	Establishment at Pit O	51 days	Mon 30/11/20	Sat 30/1/21	HK Working Day 534	552	100%	Mon 30/11/20	Sat 30/1/21									
		31 days	Mon 1/2/21	Thu 11/3/21	HK Working Day 551	553	100%	Mon 1/2/21	Thu 11/3/21									
	ingress and obstruction at 8m away from Pit O Retraction of Sleeve pipe	28 days	Fri 12/3/21	Sat 17/4/21	HK Working Day 552	554	100%	Fri 12/3/21	Sat 17/4/21					-				
	Rescue Pit for TBM	74 days	Mon 19/4/21	Sat 17/7/21	HK Working Day 553	555	100%	Mon 19/4/21	Sat 17/7/21									
		30 days		Sat 21/8/21	HK Working Day 554	556,557,493	100%	Mon 19/7/21	Sat 21/8/21					-				
						550,551,155												
	Dismantle and remove set up at Pit O	12 days	Mon 23/8/21		HK Working Day 555			Mon 23/8/21										
	Review and study the alternative construction method (Open Cut in wet condition)	12 days	Mon 23/8/21	Sat 4/9/21	HK Working Day 555	558	100%	Mon 23/8/21	Sat 4/9/21									
		0 days	Mon 6/9/21	Mon 6/9/21	HK Working Day 557	574	100%	Mon 6/9/21	Mon 6/9/21					<b>♦</b> 6/9				
	DN1200 Pipelaying in side Hang Dig Tunnel (Pit M to Pit L)	33 days	Mon 20/12/21	Sat 29/1/22	HK Working Day		100%	Mon 20/12/21	Sat 29/1/22						7			
N. FE	setup for pipe laying inside hand dig tunnel	5 days	Mon 20/12/21	Fri 24/12/21	HK Working Day 543,545	561	100%	Mon 20/12/21	Fri 24/12/21					I				
	DN1200 MS Pipe Laying inside Hand dig tunnel	10 days	Tue 28/12/21	Sat 8/1/22	HK Working Day 560	562	100%	Tue 28/12/21	Sat 8/1/22									
						563		Wed 12/1/22										
	Formwork & Setup for Grouting the gap between pipe and Sleeve	5 days		Mon 17/1/22											1			
	Grouting Works (30 meter/day)	8 days	Wed 19/1/22	Thu 27/1/22	HK Working Day 562	564	100%	Wed 19/1/22	Thu 27/1/22									
	Remove Pit setup	2 days	Fri 28/1/22	Sat 29/1/22	HK Working Day 563	570,566,580	100%	Fri 28/1/22	Sat 29/1/22									
	DN1200 Pipelaying in Sleeve pipe (Pit M to Pit N)	147 days	Tue 8/3/22	Sat 3/9/22	HK Working Day		42%	Tue 8/3/22	NA									
	Setup for Pipe Laying inside jacking Pit N	28 days	Tue 8/3/22	Sat 9/4/22	HK Working Day 564	567	100%	Tue 8/3/22	Sat 9/4/22						-			
	DN1200 MS Pipe Laying inside jacking pipe (134m) (3 days per 8m)(Only Internal	45 days	Mon 11/4/22	Wed 8/6/22	HK Working Day 566	568	75%	Mon 11/4/22	NA									
	Coating)		Thu 9/6/22	Sat 11/6/22	HK Working Day 567	569	0%	NA	NA						1			
	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days																
	Grouting Works (30 meter/day)	5 days	Mon 13/6/22	Fri 17/6/22	HK Working Day 568	570,575	0%	NA	NA									
	Pipe Connection Inside Pit M	12 days	Sat 18/6/22	Sat 2/7/22	HK Working Day 569,564	571	0%	NA	NA									
	Construction of IT Chamber at Pit M	30 days	Mon 4/7/22	Sat 6/8/22	HK Working Day 570	572	0%	NA	NA									
	Remove ELS including extracting sheet piles at Pit M & Pit N	24 days	Mon 8/8/22	Sat 3/9/22	HK Working Day 571	580	0%	NA	NA									
	DN1200 Pipelaying (Pit O to Pit N)	296 days	Wed 12/1/22	Wed 11/1/23	HK Working Day		24%	Wed 12/1/22	NA						_	<b>-</b>		
	Water mains by Open Cut Method (West Portion - 177m)	150 days	Wed 12/1/22	Mon 18/7/22	HK Working Day 558	575	36%	Wed 12/1/22	NA									
			Tue 19/7/22	Mon 1/8/22	HK Working Day 569,574	576	0%	NA	NA									
	Pipe Connection Inside Pit N	12 days																
	Remove ELS including extracting sheet piles at Pit N	24 days	Tue 2/8/22	Mon 29/8/22	HK Working Day 575	580	0%	NA	NA									
	Pipe Connection in side Pit O	12 days	Mon 28/11/22	Sat 10/12/22	HK Working Day 511	578	0%	NA	NA									
	Remove ELS including extracting sheet piles at Pit O	24 days	Mon 12/12/22	Wed 11/1/23	HK Working Day 577	580	0%	NA	NA									
	Reinstallation of Cycle track Pavement and Planter	132 days	Thu 12/1/23	Mon 26/6/23	HK Working Day		0%	NA	NA							-		
<b>5</b> 5.	Reinstalment Works	96 days	Thu 12/1/23	Fri 12/5/23	HK Working Day 576,578,572,564	581	0%	NA	NA									
	Compensation Tree Planting	30 days	Sat 13/5/23	Sat 17/6/23	HK Working Day 580	582	0%	NA	NA						1			
						-	0%	NA	NA									
	Handover Inspection with LCSD and HyD	6 days	Mon 19/6/23	Mon 26/6/23	HK Working Day 581													
Wa	ater Mains from KMB Depot to TKO Fresh Water Preliminary Service Reservoir	1649 days	Tue 7/11/17	Mon 5/6/23	HK Working Day		80%	Tue 7/11/17	NA									
	Issue CE No. 04 - Feasibility Study of Realignment of Pipeline between Po Hung Road	0 days	Thu 23/8/18	Thu 23/8/18	Calendar Day		100%	Thu 23/8/18	Thu 23/8/18		♦ 23/8							
	and TKO Freshwater PSR Issue CE No. 51 - Realignment of Water Main in Tsui Lam Section	0 days	Mon 3/8/20	Mon 3/8/20	Calendar Day	590,587,736,588,589	100%	Mon 3/8/20	Mon 3/8/20				<b>♦ 3/8</b>					
	Issue WSD Letter Ref.: (4) in WSD/M/7503/13/WSD/16/M15/300/51 for additional	0 days	Thu 3/9/20	Thu 3/9/20	Calendar Day		100%	Thu 3/9/20	Thu 3/9/20				<b>♦ 3/9</b>					
	works to CE No. 51 Tendering Process, Tender Award for CE No. 51 (Batch No, 1)	82 days	Mon 3/8/20	Fri 23/10/20	Calendar Day 585		100%	Mon 3/8/20	Fri 23/10/20									
							100%		Thu 12/11/2									
	Tendering Process, Tender Award for CE No. 51 (Batch No. 2)	102 days	Mon 3/8/20	Thu 12/11/20										-				
	Tendering Process, Tender Award for CE No. 51 (Batch No. 3))	200 days	Mon 3/8/20	Thu 18/2/21	Calendar Day 585	735,737	100%	Mon 3/8/20	Thu 18/2/21					-				
			ve Milestone	n	Puration-only Start-only	Г	External Milesto	ne 🍮	Critical	Split		1						
	amme No. 15 Task Summary May 2022 Split Project Summary	Inacti	ive Summary	1	Ianual Summary Rollup Finish-only	ı c	Deadline		Progres									
	Milestone • Inactive Task	Manu	ad Task	7	Ianual Summary External Tas	ks	Critical	The same of the sa	Manual	1 togtess								

					Project: Mainlaying in Tseu	ung Kwan O															
ask Name	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Sta	rt Actual Finish	100	018	201	9	2020	100	21	2022	10	023	2024 2024		2025
			<u></u>					- 10/11		018 Q1   Q2	Q3   Q4   Q1	1   Q2   Q3   Q4	4 Q1 Q2	Q3 Q4 Q	1   Q2   Q3	Q4 Q1	Q2   Q3   Q4   0	Q1   Q2   Q3	Q4 Q1 Q2	Q3   Q4	Q1   Q2
TTA preparation, SLG meetings, obtain RA and implement Advanced Works	100 days	Mon 3/8/20	Tue 10/11/20	Calendar Day 585		100%	Mon 3/8	8/20 Tue 10/11	/20												
Ground Investigation at Pit R	1 day	Mon 21/12/20	Mon 21/12/20	HK Working Day		100%	Mon 21,	/12/20 Mon 21/1	2/20					1							
Issue EWN No 269 - Unexpected High Rockhead Level Encountered at Working Pit F	R O days	Fri 8/1/21	Fri 8/1/21	HK Working Day		100%	Fri 8/1/2	21 Fri 8/1/21						• :	8/1						
				UK Washing Day		100%	Fri 30/7	/21 Fri 30/7/2	1						<b>♦</b> 30	П					
Receiving of Drawing No. SK40134-517 for Changing Construction Method and Alignment from Pit P to Pit T	0 days	Fri 30/7/21	Fri 30/7/21	HK Working Day		100%	FII 30/7/	/21	•												
Trenchless Works from Pit P to Mau Wu Tsai Abandon Road	688 days	Tue 24/11/20	Wed 22/3/23	HK Working Day	765	54%	Tue 24/	11/20 NA													
Issue EWN No. 241 for Tree Issue for Changing Trenchless (Pit S to Pit T) to Open	0 days	Tue 24/11/20	Tue 24/11/20	HK Working Day	626	100%	Tue 24/	11/20 Tue 24/11	/20					<b>*</b> 24/	11			11			
Cut at Control Site (CS-108)	554 days	Wed 12/5/21	Wed 22/3/23	HK Working Day		39%	Wed 12	/5/21 NA							-			-			
TBM Pipe Jacking (Pit P to Pit Y)				de Contra de la melene de					/21						♦ 12/5						
WSD agreed to carry out Horizontal grout from Pit P to Pit Y (45m)	0 days	Wed 12/5/21	Wed 12/5/21	HK Working Day	598	100%	Wed 12	/5/21 Wed 12/5	/21												
Mobilization and Carry out Horizontal grouting	43 days	Wed 12/5/21	Sat 3/7/21	HK Working Day 597	600	100%	Wed 12,	/5/21 Sat 3/7/21	L												
Receiving Pit Y	74 days	Fri 25/6/21	Mon 20/9/21	HK Working Day		100%	Fri 25/6	/21 Mon 20/9	/21												
			Sat 22/10/21	HV Working Day 508	601	100%	Mon 5/	7/21 Sat 23/10/	/21												
Establishment and Set up for pipe jacking at Pit P	93 days	Mon 5/7/21	Sat 23/10/21	HK Working Day 598	601																
Jacking DN1600 Precast Concrete Sleeve Pipe	79 days	Mon 25/10/21	Thu 27/1/22	HK Working Day 600		100%	Mon 25	/10/21 Thu 27/1/	22												
Stop Works due to incident at KMB deport	106 days	Thu 27/1/22	Thu 12/5/22	Calendar Day	603FF	100%	Thu 27/	1/22 Thu 12/5/	22							Ess					
WSD obtained approval from TD, KMD and HyD	0 days	Thu 12/5/22	Thu 12/5/22	Calendar Day 602FF	604	100%	Thu 12/	5/22 Thu 12/5/	22								12/5				
																			1		
Constuction of Rescure Pit at KMB Depot and Remove TBM	90 days	Fri 13/5/22	Sat 27/8/22	HK Working Day 603	606,608,609,605	1%	Fri 13/5	/22 NA													
Pipe Laying from Pit P to Rescure Pit at KMB Depot	54 days	Mon 29/8/22	Wed 2/11/22	HK Working Day 604	610	0%	NA	NA													
Open Cut at KMB Depot Stage 1	72 days	Mon 29/8/22	Wed 23/11/22	HK Working Day 604	607	0%	NA	NA													
		Thu 24/11/22	Wod 22/2/22	HK Working Day 606		0%	NA	NA													
Open Cut at KMB Depot Stage 2	72 days	Thu 24/11/22	wed 22/2/23	HK Working Day 606		076	IVA														
Open Cut outside at KMB Depot along Po Hong Road Green Area	72 days	Mon 29/8/22	Wed 23/11/22	HK Working Day 604		0%	NA	NA													-
Open Cut Across Po Hong Road (Lane by Lane, 42 W.D. per lanes; 4 Stage)	168 days	Mon 29/8/22	Wed 22/3/23	HK Working Day 604		0%	NA	NA													
Pipe Connection inside Working Pit P	18 days	Mon 28/11/22	Sat 17/12/22	HK Working Day 605,511	611	0%	NA	NA													
						00/	NA	NA													
Construction of Combined chamber at Pit P	48 days	Mon 19/12/22	Sat 18/2/23	HK Working Day 610	612	0%	NA	NA													
Remove ELS including extracting sheet piles at Pit P; Reinstatement	18 days	Mon 20/2/23	Sat 11/3/23	HK Working Day 611		0%	NA	NA													
Hand Shield Pipe Jacking from Pit R to Pit Y	300 days	Fri 18/12/20	Wed 22/12/23	1 HK Working Day		100%	Fri 18/1									~					
Issue CE No. 94 - Site Clearance of Affected Trees and Plants for Mainlaying	0 days	Fri 18/12/20	Fri 18/12/20	Calendar Day	416	100%	Fri 18/1	22/12/21 12/20 Fri 18/12/						<b>*</b> 1	8/12						
works near Po Hong Road and Ling Hong Road	o days														_						
Jacking / Receiving Pit R	25 days	Fri 16/7/21	Fri 13/8/21	HK Working Day	616	100%	Fri 16/7	7/21 Fri 13/8/2	1												
Establishment at Pit R	10 days	Sat 14/8/21	Wed 25/8/21	HK Working Day 615	617	100%	Sat 14/8	8/21 Wed 25/8	3/21						1						
Mild Steel Sleeve Pipe in Mix of Soil (26m)(0.8m/day)	35 days	Thu 26/8/21	Thu 7/10/21	HK Working Day 616	618	100%	Thu 26/	/8/21 Thu 7/10/	/21												
	12 days	Fri 8/10/21	Sat 23/10/21	HK Working Day 617	619	100%	Fri 8/10	0/21 Sat 23/10	/21												
Remove Setup at Pit R	13 days																				
Setup for Pipe Laying inside Jacking Pit R	12 days	Mon 25/10/21	Sat 6/11/21	HK Working Day 618	620	100%	Mon 25	5/10/21 Sat 6/11/	21							•					
DN1200 MS Pipe Laying inside Jacking Pipe (3 days per 4m)(Only Internal	13 days	Fri 5/11/21	Fri 19/11/21	HK Working Day 619	621	100%	Fri 5/11	L/21 Fri 19/11/	/21							1					
Coating)  Formwork & Setup for Grouting the gap between pipe and Sleeve	2 days	Sat 20/11/21	Mon 22/11/2:	1 HK Working Day 620	622	100%	Sat 20/	11/21 Mon 22/1	11/21							1					
					624	100%	Mon 17	3/12/21 Wed 22/1	12/21							1					
Grouting Works	9 days	WION 13/12/21	vved 22/12/2.	1 HK Working Day 621	024																
Open Cut Excavation from Pit R to Mau Wu Tsai Abandon Road	239 days	Mon 10/5/21	Fri 25/2/22	HK Working Day	767	100%	Mon 10	0/5/21 Fri 25/2/2	22												
Open Cut, CH.HA0+28 - CH.HA0+48 with DAV Chamber (Connecting to Pit R)	49 days	Fri 24/12/21	Fri 25/2/22	HK Working Day 622,627	625	100%	Fri 24/1	12/21 Fri 25/2/2	22												
Construction of DN900 Valve Chamber with by-pass at CH.HA0+44	36 days	Fri 24/12/21	Thu 10/2/22	HK Working Day 624		100%	Fri 24/1	12/21 Thu 10/2,	/22							-					
					627			0/5/21 Sun 8/8/2													
Open Cut, CH.HA0+48 - CH.HA 1+20 OC with DN600 IT Chamber (Connecting Original CH.HA0+80)	75 days	Mon 10/5/21		HK Working Day 635,595	627																
Construction of Wash Out Chamber & Reserved Tee at CH.HA0+49	36 days	Mon 23/8/21	Tue 5/10/21	HK Working Day 626	624	100%	Mon 23	3/8/21 Tue 5/10,	/21												
Open Trench Pipe laying at Abandoned Road	451 days	Tue 22/9/20	Thu 31/3/22	HK Working Day	767	91%	Tue 22,	/9/20 NA						-							
Issue CE No. 121 - Non-explosive agent in Abandoned Road Near Mau Wu Tsai	0 days	Fri 25/6/21	Fri 25/6/21	HK Working Day		100%	Fri 25/6	6/21 Fri 25/6/2	21						♦ 25/	6					
Village														♦ 22/9							
Issue CE No. 70 - Landscaping Survey near Mau Wu Tsai Village	0 days	Tue 22/9/20	Tue 22/9/20	HK Working Day		100%	Tue 22,	/9/20 Tue 22/9	/20												
lssue CE No. 86 - Tree Affected in Mainlaying Works near Mau Wu Tsai Village	0 days	Mon 12/10/2	0 Mon 12/10/2	0 HK Working Day	632	100%	Mon 12	2/10/20 Mon 12/3	10/20					♦ 12/10	0						
																	Li	1			-
rking Programme No. 15		tive Milestone		National Control of the Control of t	rt-only E ish-only 3	External Milest Deadline	tone 🌼		itical Split ogress												
Date : 24 May 2022  Milestone  Split  Project Summary  Inactive Task		nual Task			ernal Tasks	Critical			anual Progress												
					Page 15																

				<u> </u>	Project: Mainlaying in Ts												
	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018	2019	2020	2021	T	2022	2023	2024	200
			20/0/24	IIVAN III D. 621	661.622	100%	Tue 22/9/20	Mon 20/9/21	Q4 Q1 Q2 Q3	Q4 Q1 Q2 Q	3 Q4 Q1 Q2	Q3   Q4   Q1	Q2   Q3   Q4	Q1   Q2   Q3   Q4	2023 Q1   Q2   Q3   Q4	Q1   Q2   Q3   0	Q4 Q1
Tree survey, TPRP Submission and Receiving TPRP approval	295 days	Tue 22/9/20	Wion 20/9/21	HK Working Day 631	661,633												_
Mobilization and Tree Removal	23 days	Tue 21/9/21	Wed 20/10/21	HK Working Day 632	663,636	100%	Tue 21/9/21	Wed 20/10/21									
Issue CE No. XXX - Change Trenchless (Pit U - Pit V) to Open Cut and Revised the	0 days	Thu 31/3/22	Thu 31/3/22	HK Working Day		0%	NA	NA						<b>*</b> 31/3			
Alignment Open Cut, CH.HA0+80 - CH.HA3+17	141 days	Thu 19/11/20	Fri 14/5/21	HK Working Day	626	100%	Thu 19/11/20	Fri 14/5/21				No.					
Open Cut, CH.HA3+17 - CH.HA3+79	66 days	Tue 26/10/21	Thu 13/1/22	HK Working Day 633		30%	Tue 26/10/21	NA									
pen Trench Pipe Laying at Po Lam Road South (Mau Wu Tsai Village)	382 days	Wed 12/5/21	Tue 23/8/22	HK Working Day		74%	Wed 12/5/21	NA					<b>P</b>	-			
	127 days	Wed 12/5/21	Tue 12/10/21		639	100%	Wed 12/5/21	Tue 12/10/21									-
Open Cut, CH.HA3+79 - CH.HA4+68 with SACP							NA NA	NA									-
Open Cut, CH.HA4+68 - CH.HA5+21	60 days	Tue 14/6/22	Tue 23/8/22	HK Working Day 638,640													_
Open Cut, CH.HA5+21 - CH.HA5+55 (Pit W)	60 days	Mon 28/3/22	Mon 13/6/22	HK Working Day	639	95%	Mon 28/3/22	NA									
enchless Work at Po Lam Road South	259 days	Wed 14/4/21	Thu 24/2/22	HK Working Day		100%	Wed 14/4/21	Thu 24/2/22									
Inspection Pit Excavation	108 days	Wed 14/4/21	Sat 21/8/21	HK Working Day		100%	Wed 14/4/21	Sat 21/8/21									
Inspection Pit Excavation at Pit W	4 days	Wed 18/8/21	Sat 21/8/21	HK Working Day	646	100%	Wed 18/8/21	Sat 21/8/21					1				
Inspection Pit Excavation at Pit X	3 days	Wed 14/4/21	Fri 16/4/21	HK Working Day	647	100%	Wed 14/4/21	Fri 16/4/21					1				
Construction of Jacking / Receiving Pits	107 days	Sat 24/4/21	Tue 31/8/21	HK Working Day		100%	Sat 24/4/21	Tue 31/8/21					-				
	8 days	Mon 23/8/21	Tue 31/8/21	HK Working Day 643			Mon 23/8/21						1				
Receiving Pit W																	
Jacking Pit X	31 days	Sat 24/4/21	Tue 1/6/21	HK Working Day 644	649		Sat 24/4/21							_			
Hand Shield Pipe Jacking from Pit W to Pit X (~85m)	219 days	Wed 2/6/21	Thu 24/2/22	HK Working Day		100%	Wed 2/6/21	Thu 24/2/22									
Establishment at Pit X	15 days	Wed 2/6/21	Sat 19/6/21	HK Working Day 647	650	100%	Wed 2/6/21	Sat 19/6/21									
Form Entrance Opening at pit X	5 days	Thu 8/7/21	Tue 13/7/21	HK Working Day 649	651	100%	Thu 8/7/21	Tue 13/7/21									
Mild Steel Sleeve Pipe in Mix of Soil (46m) (0.6m / day)	73 days	Wed 14/7/21	Fri 8/10/21	HK Working Day 650	652,653	100%	Wed 14/7/21	Fri 8/10/21									
Rearrangement Wailing and Form Exit Opening at Pit W	14 days	Mon 11/10/2:	Wed 27/10/21	HK Working Day 651	654	100%	Mon 11/10/21	Wed 27/10/21									
Remove Setup it Pi X	5 days	Sat 9/10/21	Fri 15/10/21	HK Working Day 651	654	100%	Sat 9/10/21	Fri 15/10/21					1				
	6 days	Thu 28/10/21		HK Working Day 653,652	655	100%	Thu 28/10/21	Wed 3/11/21					1				
Setup for Pipe Laying inside Jacking Pit X					656			Thu 25/11/21									+
DN900 MS Pipe Laying inside Jacking Pipe (3 days per 4m)(Only Internal)	19 days	Thu 4/11/21		HK Working Day 654													4
Formwork & Setup for Grouting the gap between pipe and Sleeve	2 days	Sat 12/2/22	Mon 14/2/22	HK Working Day 655	657		Sat 12/2/22	Mon 14/2/22									
Grouting Works (30m per day)	9 days	Tue 15/2/22	Thu 24/2/22	HK Working Day 656		100%	Tue 15/2/22	Thu 24/2/22									
pen Trench Pipe Laying at Po Lam Road (West Bound)	465 days	Mon 20/7/20	Fri 11/2/22	HK Working Day	767,768	100%	Mon 20/7/20	Fri 11/2/22									
Issue CE No. 68 - TIA for TTA at Po Lam Road	0 days	Mon 20/7/20	Mon 20/7/20	HK Working Day	660	100%	Mon 20/7/20	Mon 20/7/20				◆ 20/7					
Traffic Survey and Revise TIA, revised TTA Drawings, Obtain RA	177 days	Mon 20/7/20	Sat 20/2/21	HK Working Day 659	665	100%	Mon 20/7/20	Sat 20/2/21									
Mobilization and Tree Removal	29 days	Tue 21/9/21	Wed 27/10/2	1 HK Working Day 632	663,664,662	100%	Tue 21/9/21	Wed 27/10/21					-				
Construction of DAV Chamber at Pit X	41 days	Tue 7/12/21	Wed 26/1/22	HK Working Day 661		100%	Tue 7/12/21	Wed 26/1/22					-	-			
				HK Working Day 661,665,633		100%	Thu 28/10/21	Fri 11/2/22									
Open Cut, fromt Pit X, CH.HA6+00 - CH.HA6+54	86 days		Fri 11/2/22														
Construction of DN900 Valve Chamber and By Pass Pipes	17 days	Tue 11/1/22		HK Working Day 661			Tue 11/1/22										
Open Cut, CH.HA6+54 to CH.HA7+24 (Portion SKR) with SACP	85 days	Mon 22/2/21	Mon 7/6/21	HK Working Day 660	666,663	100%	Mon 22/2/21	Mon 7/6/21									
Open Cut, CH.HA7+24 - CH.HA7+61/CH.HB0+00 Excavation in Rock	189 days	Wed 16/6/21	Sat 29/1/22	HK Working Day 665		100%	Wed 16/6/21	Sat 29/1/22									
Water Main Structure and Associated Pipe Support across the Natural Stream	730 days	Tue 5/5/20	Tue 18/10/22	HK Working Day	768	93%	Tue 5/5/20	NA			-						
Course (Location A) (CH.HB0+00 ~ CH.HB0+ CE )  Design Submission (CE No. 55) for Water Main Structure and Associated Pipe	37 days	Tue 5/5/20	Tue 16/6/20	HK Working Day	669	100%	Tue 5/5/20	Tue 16/6/20			-						
Support across the Natural Stream Course WSD & GEO Review and Approve	121 days	Wed 17/6/20	Thu 15/10/20	Calendar Day 668	672	100%	Wed 17/6/20	Thu 15/10/20									
Tendering Process, Tender Award for CE No. 51 (Location A Mini-pile Works)	113 days	Wed 26/8/20	Wed 16/12/2	0 Calendar Day		100%	Wed 26/8/20	Wed 16/12/20									
Issue CE No. 55 - Design of the Water Mains Structure and Associated Pipe Supp		Tue 5/5/20	Tue 5/5/20	Calendar Day		100%	Tue 5/5/20	Tue 5/5/20			•	5/5					
across the Natural Stream Course for Alternative Alignment in Tsui Lam							Fri 16/10/20										
Tender and Subletting (Mini-Pile)	62 days	Fri 16/10/20		0 Calendar Day 669									2				
Issue CE No. 85 - Affected Trees across the Natural Stream Course at Tsui Lam (Location A)	0 days	Wed 28/10/2	20 Wed 28/10/2	O Calendar Day		100%	Wed 28/10/2	0 Wed 28/10/20				<b>♦ 28/10</b>					
	Inact	tive Milestone	Г	uration-only Sta	t-only E	External Mileston	ne 🌼	Critical Spi	t ,,,,,,,,,								
mme No. 15 Task Summary May 2022 Split Project Summary		tive Summary			ish-only	Deadline		Progress Manual Pro									

			les 11	lm 1 2 1 :	D 1	Project: Mainlaying in Tse		A short Co.	A stud Timi 1										
ame	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	Q4   Q1   Q2   Q3   Q	2019	2	20 2	21	2022	2023	l or low low	2024	2025
Tree survey, TPRP Submission and Receiving TPRP approval (HyD)	227 days	Mon 31/8/20	Tue 8/6/21	HK Working D	Pay	676	100%	Mon 31/8/20	Tue 8/6/21	Q4 Q1 Q2 Q3 Q	Q1 Q2	Q3 Q4	1 Q2 Q3 Q4	01   Q2   Q3   Q4	Q1   Q2   Q	3 Q4 Q1	Q2 Q3 Q4	Q1 Q2 Q3	Q4 Q1 Q2
East Portion - Foundation Works (PC-C1, PC-T1 & PC-P1)	283 days	Wed 9/6/21	Tue 24/5/22	HK Working I	Day		99%	Wed 9/6/21	NA					<b>Q</b>	-		0		
		Wed 9/6/21	Thu 8/7/21	HK Working D		677		Wed 9/6/21	Thu 8/7/21										
Mobilization and Tree Removal	24 days							Fri 9/7/21	Fri 16/7/21										
Erect Temporary Timber Platform for Piling Works	7 days	Fri 9/7/21	Fri 16/7/21	HK Working D		678													
Pre-drilling works (PD6, PD7 & PD8) & confirmation of rock head and depth of mini-pile	25 days	Sat 17/7/21	Sat 14/8/21	HK Working D	Day 677	679,686			Sat 14/8/21										
Mobilization and Driving Dia. 323mm steel Casting (14 nos)	39 days	Mon 16/8/21	Thu 30/9/21	HK Working D	Day 678	680	100%	Mon 16/8/21	Thu 30/9/21										
Cleaning, Insert T50 reinforcement and Grouting	18 days	Mon 11/10/21	Mon 1/11/21	HK Working D	Day 679	681,684	100%	Mon 11/10/21	Mon 1/11/21										
Setup and Loading Test of Mini-Pile (T-1)	15 days	Tue 1/3/22	Thu 17/3/22	HK Working D	Day 680	683,682	100%	Tue 1/3/22	Thu 17/3/22										
Setup and Loading Test of Mini-Pile (C1-2)	8 days	Fri 18/3/22	Sat 26/3/22	HK Working D	Day 681		100%	Fri 18/3/22	Sat 26/3/22						0000				
Construction Pile Caps (P1) with Pier 1	50 days	Fri 18/3/22	Sat 21/5/22	HK Working [	Day 681	684	100%	Fri 18/3/22	Sat 21/5/22										
Remove Timber platform for Piling Works	2 days	Mon 23/5/22	Tue 24/5/22	HK Working [	Day 683,680	694	0%	Mon 23/5/22	NA										
West Portion - Foundation Works (PC-P2, PC-P3 & PC-C2)	241 days	Tue 5/10/21	Fri 29/7/22	HK Working I	Day		98%	Tue 5/10/21	NA					-	-				
Mobilization and Tree Removal	3 days	Tue 5/10/21	Thu 7/10/21	HK Working [	Day 678	687	100%	Tue 5/10/21	Thu 7/10/21					1					
Erect Temporary Timber Platform for Piling Works	5 days	Thu 28/10/21	Tue 2/11/21	HK Working [		688	100%	Thu 28/10/21	Tue 2/11/21					1					
Pre-drilling works (P WPR, PSKR, PD3, PD4 & PD5) & confirmation of rock head		Fri 26/11/21	Tue 14/12/21		Day 687,703,707	689			Tue 14/12/21										
and depth of mini-pile						690		Wed 15/12/21											
Driving Dia. 323mm steel Casting (26 nos)	58 days	Wed 15/12/21		HK Working I															
Cleaning, Insert T50 reinforcement and Grouting	50 days	Sat 26/2/22	Fri 29/4/22	HK Working [		692,691		Sat 26/2/22											
Construction Pile Caps with Pier 2	36 days	Mon 21/3/22	Wed 27/7/22	HK Working I	Day 690	692	95%	Mon 21/3/22						*					
Remove Timber platform for Piling Works	2 days	Thu 28/7/22	Fri 29/7/22	HK Working (	Day 690,691	694	0%	NA	NA										
Pipelaying on Mini-pile Foundation	66 days	Sat 30/7/22	Tue 18/10/22	HK Working	Day		0%	NA	NA										
Temporary Working Platform for Pipe Installation	6 days	Sat 30/7/22	Fri 5/8/22	HK Working I	Day 684,692	695	0%	NA	NA						1				
Cut Temporary casting and Bend the T50 to designated position	12 days	Sat 6/8/22	Fri 19/8/22	HK Working I	Day 694	696	0%	NA	NA						1				
Pipe Installation / Welding / Testing / Painting	24 days	Sat 20/8/22	Sat 17/9/22	HK Working I	Day 695	697,701	0%	NA	NA										
Concrete Hunching	12 days	Mon 19/9/22	Mon 3/10/22	HK Working	Day 696	698	0%	NA	NA							1			
Apply top coating of aliphatic polyurethane on site	6 days	Wed 5/10/22	Tue 11/10/22	HK Working	Day 697	699	0%	NA	NA							1			
Remove Temporary Working Platform	6 days	Wed 12/10/22	Tue 18/10/22	HK Working	Day 698	702	0%	NA	NA							1			
	551 days	Thu 8/4/21	Tue 14/2/23	- 742		768	60%	Thu 8/4/21	NA					<b>—</b>					
Open Trench Pipe Laying at Po Lam Road (East Bound)			Tue 29/11/22			702	0%	NA	NA		_								
Open Cut, CH.HC0+00 - CH.HC0+08; Connecting to CH.HB	60 days					702	0%	NA	NA										
Open Cut, CH.HC0+08 - CH.HC0+12	60 days		Tue 14/2/23	HK Working															
Open Cut, CH.HC0+12 - CH.HC0+97 with SACP	104 days	Wed 16/6/21	Tue 19/10/21			704,688			Tue 19/10/21										
Open Cut, CH.HC0+97 - CH.HC1+56(Portion B4) with SACP	62 days	Wed 24/11/21	Thu 10/2/22	HK Working	Day 703,707	705	99%	Wed 24/11/2	1 NA										
Open Cut, CH.HC1+56 - CH.HC2+04	60 days	Fri 11/2/22	Tue 26/4/22	HK Working	Day 704	706	0%	NA	NA										
Open Cut, CH.HC2+04 - CH.HC2+70 with SACP	60 days	Wed 27/4/22	Sat 9/7/22	HK Working	Day 705	701	0%	NA	NA										
Open Cut, CH.HC2+70 - CH.HC3+22 with SACP	58 days	Tue 14/9/21	Tue 23/11/21	. HK Working	Day 708	704,688	100%	Tue 14/9/21	Tue 23/11/21										
Open Cut, CH.HC3+22 - CH.HC3+70 /CH.HD0+00	131 days	Thu 8/4/21	Sat 11/9/21	HK Working	Day	707	100%	Thu 8/4/21	Sat 11/9/21										Certification
Water Main Structure and Associated Pipe Support from Po Lam Road to Tsui Lan	771 days	Tue 16/6/20	Thu 19/1/23	HK Working	Day	768	82%	Tue 16/6/20	NA							7			
Road (Location B)(CH.HDD+00 ~ CH.H WPR+01) Issue CE No. 62 - Design of Pipe Support in Tsui Lam (Location B) .	0 days	Tue 16/6/20	Tue 16/6/20	Calendar Da	у	711	100%	Tue 16/6/20	Tue 16/6/20				<b>♦</b> 16/6						
Design Submission (CE No. 62) for Water Main Structure and Associated at Tsui L	am 356 days	Wed 17/6/20	Fri 27/8/21	HK Working	Day 710	712	100%	Wed 17/6/20	Fri 27/8/21										
WSD & GEO Approval	0 days	Tue 21/9/21	Tue 21/9/21	Calendar Da	y 711	716	100%	Tue 21/9/21	Tue 21/9/21					<b>*</b> 2	/9				
	0 days	Thu 30/9/21	Thu 30/9/21	HK Working		719		Thu 30/9/21						<b>•</b> 3	0/9				
TTA Drawing approval for Tsui Lam Road					•	715FS+18 days		Tue 5/10/21						<b>*</b>					
LCSD's Consent	0 days	Tue 5/10/21	Tue 5/10/21			12L2+TO days									1/11				
Approval of Excavation Permit for Tsui Lam Road	0 days	Mon 1/11/21	Mon 1/11/21	. HK Working	Day 714FS+18 days		100%	ivion 1/11/21	Mon 1/11/21					ľ					
Task Summary	Inact	ive Milestone	D	ouration-only	Start-on	ıly E	External Milesto	ne 🌵	Critical S	plit									
Programme No. 15		ive Summary		Ianual Summary Rollup	Finish-	only 7	Deadline	1	Progress	100000									

						t: Mainlaying in Tseung Kwan O											
fame	Duration	Start	Finish	Task Calendar F	Predecessors Succes	sors % Comple	Actual Start	Actual Finish	2018	2019 2019 202	0	2021	2022	2023		2024 2024	2025
Tender and sublett Mini-pile works at Location B to current Sub-contractor	73 days	Fri 27/8/21	Mon 22/11/21	HK Working Day	712 721	100%	Fri 27/8/21	Mon 22/11/2	Q4 Q1 Q2 Q3 Q4	Q1   Q2   Q3   Q4   Q	Q2 Q3 Q4	Q1   Q2   Q3	Q4 Q1 Q	2 Q3 Q4 Q1	Q2   Q3   Q4	Q1 Q2 Q3	Q4 Q1 Q2
Tree survey, TPRP Submission and Receiving TPRP approval (HyD)	322 days	Fri 21/8/20		HK Working Day	718	100%	Fri 21/8/20	Mon 20/9/21							2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
	69 days	Mon 20/9/21	Sat 11/12/21	HK Working Day		100%		21 Sat 11/12/21									
Mobilization, Tree Removal Works & Site Clearance				Calendar Day		100%		1 Tue 14/12/21									
Obtain RA for TTA implement	38 days	Sun 7/11/21	Tue 14/12/21		715,718 721								-				
Mini-pile Foundation Works	258 days			HK Working Day			Wed 15/12										
Erect Temporary Timber Platform for Piling Works	25 days	Wed 15/12/21		HK Working Day				/21 Sat 15/1/22									
Pre-drilling works & confirmation of rock head and depth of mini-pile	36 days	Wed 26/1/22	Fri 11/3/22	HK Working Day	721 723	100%	Wed 26/1/	22 Fri 11/3/22									
Mobilization and Driving Dia. 273mm steel Casting (18 nos)	51 days	Sat 26/3/22	Tue 31/5/22	HK Working Day	722 724	61%	Sat 26/3/2	2 NA									
Cleaning, Insert T50 reinforcement and Grouting	18 days	Wed 1/6/22	Wed 22/6/22	HK Working Day	723 725	0%	NA	NA									
Setup and Loading Test of Mini-Pile	36 days	Thu 23/6/22	Thu 4/8/22	HK Working Day	724 726	0%	NA	NA									
Construction Pile Caps (PC-C, PC-P1, PC-P2, PC-P3 & PC-T) and Piers (P1, P2 & P3	3) 72 days	Fri 5/8/22	Mon 31/10/22	HK Working Day	725 728	0%	NA	NA .									
Pipelaying on Mini-pile Foundation	66 days	Tue 1/11/22	Thu 19/1/23	HK Working Day		0%	NA	NA	- 1					-			
Temporary Working Platform for Pipe Installation	6 days	Tue 1/11/22	Mon 7/11/22	HK Working Day	726 729	0%	NA	NA						1			
Cut Temporary casting and Bend the T50 to designated position	12 days	Tue 8/11/22	Mon 21/11/22	HK Working Day	728 730	0%	NA	NA									
Pipe Installation / Welding / Testing / Painting (~115m)	24 days	Tue 22/11/22	Mon 19/12/22	HK Working Day	737,729 731	0%	NA	NA									
Concrete Hunching	12 days	Tue 20/12/22	Thu 5/1/23	HK Working Day	730 732	0%	NA	NA									
Apply top coating of aliphatic polyurethane on site	6 days	Fri 6/1/23	Thu 12/1/23	HK Working Day	731 733	0%	NA	NA									
	6 days	Fri 13/1/23	Thu 19/1/23	HK Working Day			NA	NA						1			
Remove Temporary Working Platform	1649 days	Tue 7/11/17	Mon 5/6/23	HK Working Day	768		Tue 7/11/								-		
From Tsui Lam Road to TKO Freshwater PSR (CH.HE.0+00 ~ CH.HE2+11) & (CH.HF0+00 CH.HF3+11)							Fri 19/2/2:										
Batch No 3 - Temporary Works Design and Preliminary Works	30 days	Fri 19/2/21	Thu 25/3/21	HK Working Day													
TTA preparation, SLG meetings, obtain RA	150 days	Mon 3/8/20		Calendar Day		100%	Mon 3/8/2										
Material procurement (DN800 MS PIPE) (360m)	255 days	Fri 19/2/21	Sun 31/10/21	Calendar Day	589 730,	751,755,753 100%	Fri 19/2/2:										
Material procurement (Butterfly Valves)	244 days	Mon 30/8/21	Sat 30/4/22	Calendar Day		100%	Mon 30/8/	21 Sat 30/4/22									
Water Mains CH.HE0+00 - CH.HE0+27)	108 days	Fri 20/1/23	Mon 5/6/23	HK Working Day		0%	NA	NA									
Open Cut across Tsui Lam Road (CH.HE0+00 to 0+06)	48 days	Fri 20/1/23	Mon 20/3/23	HK Working Day	733 741	0%	NA	NA									
Open Cut across Tsui Lam Road (CH.HE0+06 to 0+20)	60 days	Tue 21/3/23	Mon 5/6/23	HK Working Day	740	0%	NA	NA									
Water Mains CH.HE0+27 - CH.HE2+11	414 days	Mon 1/3/21	Mon 25/7/22	HK Working Day	769	75%	Mon 1/3/2	21 NA				-		~			
Issue CE No. 114 - Non-explosive agent near TKO Freshwater Preliminary Service	ce 0 days	Fri 14/5/21	Fri 14/5/21	HK Working Day		100%	Fri 14/5/2	Fri 14/5/21				<b>♦</b> 14/5					
Reservoir Receiving of Drawing No. SK40134/525 for Proposed Alternative Alignment at	0 days	Fri 20/8/21	Fri 20/8/21	HK Working Day		100%	Fri 20/8/2	Fri 20/8/21				•	20/8				
TKOFWSR Open Cut, CH.HE0+20 -CH.HE0+27 (Excavation in Rock)	59 days	Mon 25/10/21	Tue 4/1/22	HK Working Day		100%	Mon 25/1	0/21 Tue 4/1/22									
Open Cut, CH.HE0+27 -CH.HE1+98(Excavation in Rock)	254 days	Mon 1/3/21	Thu 6/1/22	HK Working Day		100%	Mon 1/3/2	1 Thu 6/1/22									
Construction of Combined EMF and MBV Chamber at CH.HE1+90	128 days	Mon 16/8/21	Tue 18/1/22	HK Working Day	748	100%	Mon 16/8	'21 Tue 18/1/22									
Open Cut CH.1+98 & connecting to the existing DN800 F.W. Main at CH.HE2+1	1 60 days	Wed 19/1/22	Fri 1/4/22	HK Working Day	747 749	0%	NA	NA							A		
Construction of flowmeter kiosks and GI cable ducts for Combined EMF and M		Sat 2/4/22	Mon 25/7/22			0%	NA	NA									
Chamber at CH.HE1+90	1343 days		Tue 24/5/22	HK Working Day			Tue 7/11/							•			
Water Mains CH.HF0+00 - CH.HF3+10 (Inlet A)								21 Sat 12/2/22									
Open Cut CH.HF0+00 - CH.HF0+19	67 days	Sat 20/11/21		HK Working Day		100%											
Open Cut CH.HF0+19 - CH.HF1+30	114 days	Fri 31/12/21	Tue 24/5/22	HK Working Day				21 Tue 24/5/22									
Construction of Combined EMF and MBV Chamber at CH.HF1+30	90 days	Sat 22/1/22	Tue 17/5/22	HK Working Day				2 Tue 17/5/22									
Open Cut CH.HF1+30 - CH.HF1+36	31 days	Sat 22/1/22	Wed 2/3/22	HK Working Day		100%	Sat 22/1/2	2 Wed 2/3/22									
Exposed Pipe CH.HF1+36 - CH.HF2+85	53 days	Thu 25/11/21	Fri 28/1/22	HK Working Day	737 757	100%	Thu 25/11	/21 Fri 28/1/22					7				
Exposed Pipe to the side wall of TKOFWSR	41 days	Thu 24/2/22	Wed 13/4/22	HK Working Day	757	100%	Thu 24/2/	22 Wed 13/4/22									
Form Opening and Cast-in short pipe at TKOFWSR	9 days	Mon 14/2/22	Wed 23/2/22	HK Working Day	755 756	100%	Mon 14/2	/22 Wed 23/2/22					1				
	entraction of the	ive Milestone	Du	ration-only	Start-only		tone 🐡	Critical	Split								

	D	P4	France	Tool C-1	Deadacases—	Project: Mainlaying in Tseu	er.	Actual Ctort	Actual Finish											
ame	Duration	Start	Finish	Task Calendar	Predecessors	Successors	Complete	Actual Start	Actual Pinish	2018	2	019 019 01   Q2   Q3   Q4	2020	202	21	2022	202	3	2024	2025
Construction of flowmeter kiosks and GI cable ducts for Combined EMF and	90 days	Tue 7/11/17	Mon 26/2/18	HK Working Day	,		0%	NA	NA	Q4 Q1	Q2   Q3   Q4	Q1   Q2   Q3   Q4	Q1   Q2   0	Q3   Q4   Q1	1   Q2   Q3	Q4 Q1 Q2	Q3 Q4 Q1	Q2 Q3 Q	1 Q1 Q2 Q	3 Q4 Q1
MBV Chamber at CH.HF1+30																				
800 - CH.ADN1200 MS Pipe Static Pressure Test, Pipeline Cleaning, CCTV Inspection,	1232 days	Wed 24/3/21	Tue 6/8/24	Calendar Day			13%	Wed 24/3/21	NA											
	1112 days	Wed 24/3/21	Mon 8/4/24	Calendar Day			18%	Wed 24/3/21	NA											
DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.CA4+24 to	49 days	Wed 24/3/21	Tue 11/5/21	Calendar Day	105	772	100%	Wed 24/3/21	Tue 11/5/21											
CH.CT.2+65 (Approx. 0.7km)		r-: 20/0/22	Cat 19/11/22	Calandar Day	121,167,184,213,224	773	0%	NA	NA											
DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) (Approx. 1.7km)	51 days	Fri 29/9/23	Sat 18/11/23	Calendar Day	121,167,164,213,224	775	078	IVA	IVA											
DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66)	42 days	Tue 27/2/24	Mon 8/4/24	Calendar Day	224,251,306	774	0%	NA	NA											
(Approx. 1.4km)	62 days	Tuo 13/0/22	Mon 12/11/22	Calendar Day	372 434	775	0%	NA	NA											
DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 (approx. 2.1km)	63 days	Tue 12/9/23	MOU 13/11/53	Calendar Day	372,434	775	076	INA	IVA							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.FD 3+43 to	42 days	Tue 12/9/23	Mon 23/10/23	Calendar Day	436,479,517,594,434	776	0%	NA	NA									-		
DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 1.4km)		Tue 10/4/22	F-: 20/4/22	Calandas Day			100%	Tue 19/4/22	Fri 29/4/22											
DN1200 MS Pipe - Static Pressure Test From Pit Y (CH>GSKR.20 to CH.HA3+70)	11 days	Tue 19/4/22	Fri 29/4/22	Calendar Day			100%	Tue 19/4/22	FII 25/4/22											
DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai	30 days	Fri 1/4/22	Sat 30/4/22	Calendar Day	628,623,658	777	0%	NA	NA							•				
(CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) (approx. 0.7km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) &	33 days	Tue 6/6/23	Sat 8/7/23	Calendar Day	658,667,700,709,734	778	0%	NA	NA											
(CH.HF1+30) (Approx. 1.1km)	C deve	T 26/7/22	Su- 21/7/22	Calandar Day	742	779	0%	NA	NA								1			
F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m)	6 days	Tue 26/7/22	Sun 31/7/22	Calendar Day	744															
DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO	6 days	Wed 25/5/22	Mon 30/5/22	Calendar Day	750	780	0%	NA	NA											
F.W.S.R.(CH.HF1+30) to CH.HF3+10 (Approc. 80m)  Pipeline Cleaning and CCTV Inspection	1153 days	Wed 12/5/21	Sun 7/7/24	Calendar Day			10%	Wed 12/5/21	NA						<b>P</b>	-			-	
	. 60 days	Wed 12/5/21	Sat 10/7/21	Calendar Day	761	782	100%	Wed 12/5/21	Sat 10/7/21											
DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.CA4+24 to CH.CT.2+65		wed 12/5/21	3at 10///21	Calellual Day	701	762	100/8	Wed 12/3/21	34(10/7/21											
DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber	90 days	Sun 19/11/23	Fri 16/2/24	Calendar Day	762	782	0%	NA	NA											
at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber	90 days	Tue 9/4/24	Sun 7/7/24	Calendar Day	763	782	0%	NA	NA											
at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A		Tue 14/11/23	Sun 11/2/24	Calendar Day	764	782	0%	NA	NA											
DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43	90 days	Tue 14/11/25	3uii 11/2/24	Caleffual Day	704		070													
DN1200 MS Pipe - Pipeline Cleaning and CCTV From DN900 Valve Chamber at CH.FD	90 days	Tue 24/10/23	Sun 21/1/24	Calendar Day	765	782	0%	NA	NA										T	
3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From From DN900 Valve	60 days	Sun 1/5/22	Wed 29/6/22	Calendar Day	767	782	0%	NA	NA											
Chamber at Mau Wu Tsai (CH.HAO+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau	60 days	Sun 9/7/23	Wed 6/9/23	Calendar Day	768	782	0%	NA	NA											
Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) &	oo uays	3un 3/1/23	Wed 0/3/23	Calcillai Day	700															
DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE2+11	18 days	Mon 1/8/22	Thu 18/8/22	Calendar Day	769	782	0%	NA	NA											
DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV	18 days	Tue 31/5/22	Fri 17/6/22	Calendar Day	770	782	0%	NA	NA											
Chamber at TKO F.W.S.R.(CH.HF1+30) to CH.HF3+10  Sterilization and Water Sampling	30 days	Mon 8/7/24	Tue 6/8/24	Calendar Day			0%	NA	NA										-	,
DN1200 MS Pipe - Portion I & Portion H (Total Water = 9700 cu.m)	30 days	Mon 8/7/24	Tue 6/8/24	Calendar Day	772,773,774,775,777,77	78,7 787	0%	NA	NA											
S250 HDPE Pipe Static Pressure, Pipeline Cleaning, CCTV Inspection, Sterilization and	60 days	Fri 23/12/22	Mon 20/2/23	Calendar Day			0%	NA	NA									'		
ater Sampling NS250 HDPE Pipe - Static Pressure Test - Portion H (Area 137)	30 days	Fri 23/12/22	Sat 21/1/23	Calendar Day	121	785	0%	NA	NA											
						700	001		210											
NS250 HDPE Pipe - Pipeline Cleaning and CCTV Inspection, Sterilization and Water Sampling - Portion H (Area 137)	30 days	Sun 22/1/23	Mon 20/2/23	Calendar Day	784	788	0%	NA	NA											
andover Portion I and Portion H to WSD Region	563 days	Tue 21/2/23	Thu 5/9/24	Calendar Day			0%	NA	NA											7
DN1200 MS Pipe - Portion I & Portion H (Area 137)	30 days	Wed 7/8/24	Thu 5/9/24	Calendar Day	782		0%	NA	NA											
				Calcada- Day	785	164	0%	NA	NA									1		
NS250 HDPE Pipe - Portion H (Area 137)	7 days	Tue 21/2/23	Mon 27/2/23	Calendar Day	,03	104														
later Supply to Tseung Kwan O Desalination Plant at Fill Bank of Tseung Kwan O Area	445 days	Tue 7/11/17	Sat 11/5/19	HK Working Da	ay .		99%	Tue 7/11/17	NA											
37 (Portion J) Issue of CE No. 02	0 days	Fri 16/11/18	Fri 16/11/18	HK Working Da	У	791	100%	Fri 16/11/18	Fri 16/11/18		<b>*</b> 10	V11								
		Sat 17/11/18	Thu 3/1/19	Calendar Day	790	792	100%	Sat 17/11/18	Thu 3/1/19											
Procurement of Major Material	48 days																			
Installation of NS250 HDPE Pipe from A to B in accordance with the Drawing No.	89 days	Fri 4/1/19	Thu 25/4/19	HK Working Da	y 791	793	100%	Fri 4/1/19	Thu 25/4/19											
13/WSD/16/SK13 to SK15 and W20203/4A Sterilization and Flushing NS250 HDPE Pipe (From T0+00 to T23+64)	4 days	Wed 24/4/19	Sun 28/4/19	HK Working Da	y 792	794	100%	Wed 24/4/19	Sun 28/4/19			1								
Take Water Sampling	1 day	Mon 29/4/19	Mon 29/4/19	HK Working Da	y 793	795	100%	Mon 29/4/19	Mon 29/4/19			1								
				_																
Backfill at T23+64 after completion of Water Sampling Test	1 day	Sat 11/5/19	Sat 11/5/19	HK Working Da	y /94	796FF	100%	Sat 11/5/19	Sat 11/5/19			1								
Handover Portion J to WSD Region	0 days	Sat 11/5/19	Sat 11/5/19	HK Working Da	y 795FF		100%	Sat 11/5/19	Sat 11/5/19			<b>♦</b> 11/5								
	1 day	Tue 7/11/17	Tue 7/11/17	None			0%	NA	NA											
A	_ au,	, , , , , , , , , , , , , , , , ,	2 .   2 .   2 .																	
rogramme No. 15 Task Summary		ve Milestone		ration-only	Start-only	Е	External Milesto		Critical S	plit										
Ografilite No. 15 Split Project Summary	1 Inactiv	ve Summary	M	anual Summary Rollup 🕳	Finish-only	3	Deadline		Progress											



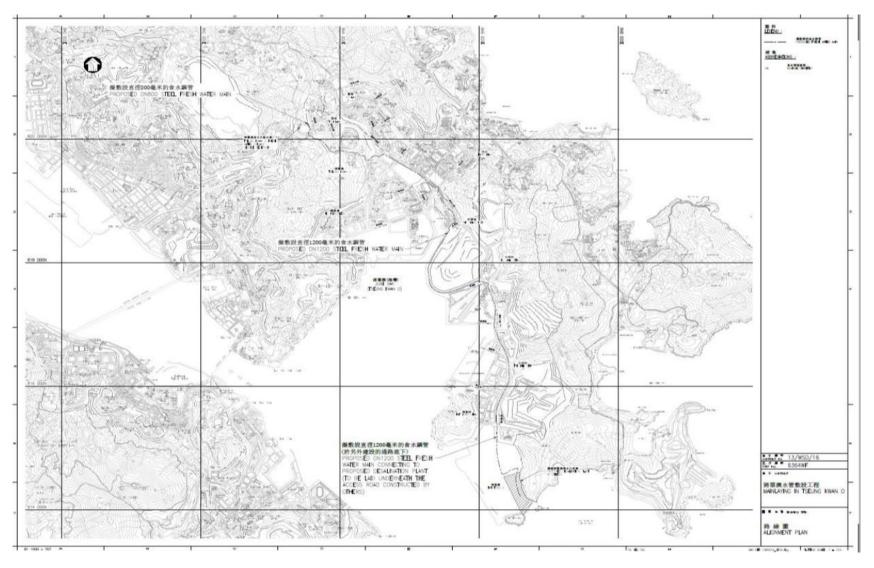


## Appendix B

Overview of Mainlaying in Tseung Kwan O







Overview of Mainlaying in Tseung Kwan O

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### Appendix C

Summary of Implementation Status of Environmental Mitigation Measures (EMIS)





EIA	Recommended Environmental Protection	Objectives of the	Implementation	Imp	lement Stage	ation	Implementation	Relevant Legislation &
Reference	Measures/ Mitigation Measures	recommended measures & main concerns to address	Agent	D	С	0	status	Guidelines
Air Quality								
S4.8.1	Impervious dust screen or sheeting will be provided to enclose scaffolding from the ground floor level of building for construction of superstructure of the new buildings.	Land site/ During Construction	Contractor(s)		<b>✓</b>		N/A	Air Pollution Control (Construction Dust)
S4.8.1	Impervious sheet will be provided for skip hoist for material transport.	Land site/ During Construction, particularly dry season	Contractor(s)		<b>1</b>		N/A	-
S4.8.1	The area where dusty work takes place should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after dusty activities as far as practicable.	Land site/ During Construction	Contractor(s)		<b>✓</b>		Reminder issued	-
S4.8.1	All dusty materials should be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation.	Land site/ During Construction	Contractor(s)		<b>√</b>		Implemented	-
S4.8.1	Dropping heights for excavated materials should be controlled to a practical height to minimize the fugitive dust arising from unloading.	Land site/ During Construction	Contractor(s)		<b>√</b>		Implemented	-
S4.8.1	During transportation by truck, materials should not be loaded to a level higher than the side and tail boards, and should be dampened or covered before transport.	Land site/ During Construction	Contractor(s)		<b>✓</b>		Implemented	-
S4.8.1	Wheel washing device should be provided at the exits of the work sites. Immediately before leaving a construction site, every vehicle shall be washed to remove any dusty material from its body and wheels as far as practicable.	Land site/ During Construction	Contractor(s)		<b>✓</b>		N/A	-
S4.8.1	Road sections between vehicle-wash areas and vehicular entrance will be paved.	Land site/ During Construction	Contractor(s)		<b>√</b>		N/A	-
S4.8.1	Hoarding of not less than 2.4m high from ground level will be provided along the length of the Project Site boundary.	Land site/ During construction	Contractor(s)	✓	<b>√</b>		N/A	-
S4.8.1	Haul roads will be kept clear of dusty materials and will be sprayed with water so as to maintain the entire road surface wet at all times.	Land site/ During construction	Contractor(s)		<b>√</b>		Implemented	-





EIA	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Imp	lement Stage	ation	Implementation	Relevant Legislation &
Reference	Measures/ Mitigation Measures	main concerns to address	Agent	D	C	О	status	Guidelines
S4.8.1	Temporary stockpiles of dusty materials will be either covered entirely by impervious sheets or sprayed with water to maintain the entire surface wet all the time.	Land site/ During construction	Contractor(s)		✓		Reminder issued	-
S4.8.1	Stockpiles of more than 20 bags of cement, dry pulverised fuel ash and dusty construction materials will be covered entirely by impervious sheeting sheltered on top and 3-sides.	Land site/ During construction	Contractor(s)		<b>✓</b>		Reminder issued	-
S4.8.1	All exposed areas will be kept wet always to minimise dust emission.	Land site/ During construction	Contractor(s)		<b>√</b>		Reminder issued	-
S4.8.1	Ultra-low-sulphur diesel (ULSD) will be used for all construction plant on-site, as defined as diesel fuel containing not more than 0.005% sulphur by weight) as stipulated in Environment, Transport and Works Bureau Technical Circular (ETWB-TC(W)) No 19/2005 on Environmental Management on Construction Sites.	Land site/ During construction/ During Operation	Contractor(s)		<b>✓</b>	1	Implemented	Environment, Transport and Works Bureau Technical Circular (ETWB- TC(W)) No 19/2005 on Environmental Management on Construction Sites
S4.8.1	The engine of the construction equipment during idling will be switched off.	Land site/ During construction	Contractor(s)		<b>√</b>		Implemented	-
S4.8.1	Concrete batching plant will be required on site. control measures recommended in the Guidance Note on a Best Practicable Means for Cement Works (Concrete Batching Plant) (BPM 3/2 (93)) will be implemented. The control measures recommended in the Guidance Note on a Best Practicable Means for Cement Works (Concrete Batching Plant) (BPM 3/2 (93)) will be implemented.	Land site/ During construction	Contractor(s)		<b>✓</b>		N/A	Guidance Note on a Best
S4.8.1	Regular maintenance of construction equipment deployed on-site will be conducted to prevent black smoke emission.	Land site/ During construction	Contractor(s)		<b>✓</b>		Implemented	-





EIA	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation		ementa Stage	ation	Implementation	Relevant Legislation &
Reference	Measures/ Mitigation Measures	main concerns to address	Agent	D	C	О	status	Guidelines
S4.10	To ensure proper implementation of the recommended dust mitigation measures and good construction site practices during the construction phase, environmental site audits on weekly basis is recommended throughout the construction period.		Contractor(s)/ Environmental Team (ET) & Independent Environmental Checker (IEC)		>		Implemented	-





EIA	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Impl	lementa Stage	ation	Implementation	Relevant Legislation &
Reference	Measures/ Mitigation Measures	main concerns to address	Agent	D	С	0	status	Guidelines
Noise								
S5.7	Only well-maintained plant will be operated on-site, and plant will be serviced regularly during the construction phase.	All area/ During construction	Contractor(s)		<b>✓</b>		Implemented	A Practical Guide for the Reduction of Noise from Construction Works,
S5.7	Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase.	Noise control/ During construction	Contractor(s)		<b>*</b>		N/A	
S5.7	Mobile plant, if any, will be sited as far away from NSRs as possible.	Noise control/ During construction	Contractor(s)		✓		Implemented	
S5.7	Machines and plant (such as trucks) that may be in intermittent use will be shut down between work periods or will be throttled down to a minimum.	Noise control/ During construction	Contractor(s)		<b>√</b>		Implemented	
S5.7	Plants known to emit noise strongly in one direction will, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.	Noise control/ During construction	Contractor(s)		<b>√</b>		Implemented	
S5.7	Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities.	Noise control/ During construction	Contractor(s)		<b>√</b>		N/A	
S5.7	Use of Quite Powered Mechanical Equipment (QPME).	Noise control/ During construction	Contractor(s)		<b>✓</b>		Implemented	
S5.7	Movable noise barriers of 3m in height with skid footing should be used and located within a few metres of stationary plant and mobile plant such that the line of sight to the NSR is blocked by the barriers. The length of the barrier should be at least five times greater than its height. The noise barrier material should have a superficial surface density of at least 7 kg m-2 and have no openings or gaps.	Noise control/ During construction	Contractor(s)		<b>✓</b>		N/A	
S5.7	The noise insulating sheet should be deployed such that there would be no opening or gaps on the joints.	Noise control/ During construction	Contractor(s)		✓		N/A	
S5.7	Construction activities (e.g., excavation/shoring, reinstatement (asphalt), and pipe jacking) will be planned and carried out in sequence, such that items of PME proposed for these activities will not be operated simultaneously.	Noise control/ During construction	Contractor(s)		1		Implemented	





EIA	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Imp	lement Stage	ation	Implementation	Relevant Legislation &
Reference	Measures/ Mitigation Measures	main concerns to address	Agent	D	С	0	status	Guidelines
S5.7	PMEs will not be used at the works areas near educational institutions with residual impact (i.e. the "influence area" within a radius of 40m) during school hours in order to reduce impact to the educational institutions.	Noise control / During construction	Contractor(s)		<b>✓</b>		Implemented	-
S5.7	Noise enclosures or acoustic sheds would be used to cover stationary PME such as generators.  Portable/Movable noise enclosure made of material with superficial surface density of at least 7 kg m <sup>-2</sup> may be used for screening the noise from operation of the saw/groover, concrete.	Noise control/ Pre- construction/ During construction	Contractor(s)	✓	<b>✓</b>		N/A	-
S5.9	Sawcutting pavement, breaking up of pavement, excavation /shoring, pipe laying, backfilling, reinstatement (concrete) and pipe jacking shall be scheduled outside the examination period.	Noise control/ Pre- construction/ During construction	Contractor(s)	✓	<b>✓</b>		Implemented	-
S5.9	In view the duration of noise exceedance at Creative Secondary School, PLK Laws Foundation College, TKO Kei Tak Primary School and School of Continuing and Professional Studies-CUHK is limited to 8 weeks, the construction work in the influence areas near the four schools shall be scheduled during long school holidays (e.g. summer holiday, Easter holiday or Christmas holiday, etc.) as far as practicable. Scheduling the construction work for the four schools.	Noise control/ Pre- construction/ During construction	Contractor(s)	<b>\</b>	•		Implemented	-
S5.10	A noise monitoring programme shall be implemented for the construction phase.	Designated monitoring stations as defined in EM&A Manual/During construction phase	ET		<b>✓</b>		Implemented	-
S5.10	The effectiveness of on-site control measures could also be evaluated through the regular site audits.	All facilities/ During construction	Contractor(s)/ ET & IEC		✓		Implemented	-





EIA	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Impl	ementa Stage	tion	Implementation	Relevant Legislation &
Reference	Measures/ Mitigation Measures	main concerns to address	Agent	D	C	0	status	Guidelines
Water Qual								
S6.9	Silt removal facilities such as silt traps or sedimentation facilities will be provided to remove silt particles from runoff to meet the requirements of the TM standard under the WPCO. The design of silt removal facilities will be based on the guidelines provided in ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly.	Land site & drainage/ During construction	Contractor(s)		<i>*</i>		Observation and reminder issued. Rectified after observation.	ProPECC PN 1/94 TM Standard under the WPCO
S6.9	Earthworks to form the final surfaces will be followed up with surface protection and drainage works to prevent erosion caused by rainstorms.	Land site & drainage/ During construction	Contractor(s)		<b>√</b>		Implemented	-
S6.9	Appropriate surface drainage will be designed and provided where necessary.	Land site & drainage/ During construction	Contractor(s)		1		Implemented	-
S6.9	The precautions to be taken at any time of year when rainstorms are likely together with the actions to be taken when a rainstorm is imminent or forecasted and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94.	Land site & drainage/ During construction	Contractor(s)		<b>✓</b>		Observation issued. Rectified after observation	ProPECC PN 1/94
S6.9	Oil interceptors will be provided in the drainage system where necessary and regularly emptied to prevent the release of oil and grease into the storm water drainage system after accidental spillages.	Land site & drainage/ During construction	Contractor(s)		<b>✓</b>		N/A	-
S6.9	Temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge, if any, will be adequately designed for the controlled release of storm flows.	Land site & drainage/ During construction	Contractor(s)		<b>✓</b>		N/A	-
S6.9	The temporary diverted drainage, if any, will be reinstated to the original condition when the construction work has finished or when the temporary diversion is no longer required.	Land site & drainage/ During construction	Contractor(s)		<b>✓</b>		N/A	-





EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation	_	ementa Stage	tion	Implementation status	Relevant Legislation & Guidelines
Keierence	measures/ mitigation measures	main concerns to address	Agent	D	С	0	Status	Guidennes
S6.9	Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the construction workers over the construction site to prevent direct disposal of sewage into the water environment.	Land site & drainage/ During construction	Contractor(s)		<b>✓</b>		Implemented	-
S6.9 and S6.12	The sterilization water should be dechlorinated with total residual chlorine (TRC) level below 1 mg/L before discharge to public sewer. In situ testing of TRC should also be conducted for the discharge of chlorinated water for pipeline disinfection to ensure sufficient dechlorination before discharge to public sewer.	Sterilization of water mains prior to commissioning	Contractor(s)		<b>✓</b>	<b>✓</b>	N/A	Technical Memorandum for Effluents Discharged into Drainage and Sewerage Systems Inland and Coastal Waters
S6.9	The cleaning and flushing water should also be treated and desilted to the relevant discharge requirement stipulated in TM-DSS before discharging.	Sterilization of water mains prior to commissioning	Contractor(s)		✓	✓	N/A	
S6.9	Site drainage should be well maintained, and good construction practices should be observed to ensure that oil, fuels, solvents and other chemicals are managed, stored and handled properly and do not enter the nearby water streams.	Land site & drainage/ During construction/ During operation	Contractor(s)		~	<b>✓</b>	Observation and reminder issued. Rectified after observation.	-
S6.12	Regular site inspections will be carried out in order to confirm that regulatory requirements are being met and that contractors are implementing the standard site practice and mitigation measures as proposed to reduce potential impacts to water quality.	During construction	Contractor(s)/ ET & IEC		<b>*</b>		Observation and reminder issued. Rectified after observation.	-





EIA	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Imp	lement Stage	ation	Implementation	Relevant Legislation &
Reference	Measures/ Mitigation Measures	main concerns to address	Agent	D	С	0	Status	Guidelines
Waste Man								
S8.5	Nomination of approved personnel to be responsible for standard site practices, arrangements for collection and effective disposal to an appropriate facility of all wastes generated at the site.	Contract mobilization/ During construction	Contractor(s)		<b>✓</b>		Implemented	-
S8.5	Training of site personnel in proper waste management and chemical handling procedures. Training will be provided to workers on the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling at the beginning of the construction works.	Contract mobilization/ During construction	Contractor(s)		<b>✓</b>		Implemented	-
S8.5	Provision of sufficient waste disposal points and regular collection for disposal.	All area/ During construction/ During operation	Contractor(s)		<b>✓</b>	<b>√</b>	Implemented	DEVB TC(W) No. 8/2010, Enhanced Specification for Site Cleanliness and
S8.5	Appropriate measures to reduce windblown litter and dust transportation of waste by either covering trucks or by transporting wastes in enclosed containers.	All area/ During construction	Contractor(s)		<b>✓</b>		Implemented	Tidiness.
S8.5	A waste management plan (WMP) as stated in the "ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites" for the amount of waste generated, recycled and disposed of (including the disposal sites) will be established and implemented during the construction phase as part of the Environmental Management Plan (EMP). The Contractor will be required to prepare the EMP and submits it to the Architect/ Engineer under the Contract for approval prior to implementation.	All area/ During construction	Contractor(s)		•		Implemented	ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites
S8.5	Separation of chemical wastes for special handling and appropriate treatment at the Chemical Waste Treatment Centre at Tsing Yi.	All area/ During construction	Contractor(s)		✓		N/A.	Chapters 2 & 3 Code of Practice on the Packaging, Labelling & Storage of Chemical Wastes published under the Waste Disposal Ordinance (Cap 354), Section 35
S8.5	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.	Land site/ During construction	Contractor(s)		<b>√</b>		Reminder issued	Waste Disposal Ordinance (Cap 354)





EIA	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Imp	lement Stage	ation	Implementation	Relevant Legislation &
Reference	Measures/ Mitigation Measures	main concerns to address	Agent	D	C	0	Status	Guidelines
S8.5	A recording system for the amount of wastes generated/ recycled and disposal sites. The tripticket system will be included as one of the contractual requirements and implemented by the contractor(s).	Land site/ During construction	Contractor(s)		✓		Implemented	DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials
S8.5	Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of material and their proper disposal.	Land site/ During construction/ During operation	Contractor(s)		<b>✓</b>		Implemented	WBTC 32/92, The Use of Tropical Hard Wood on Construction Site
S8.5	Encourage collection of aluminium cans and wastepaper by individual collectors during construction with separate labelled bins provided to segregate these wastes from other general refuse by the workforce.	Land site/ During construction	Contractor(s)		<b>✓</b>		Implemented	ETWB TCW No. 33/2002, Management of Construction and Demolition Material Including Rock
S8.5	Any unused chemicals and those with remaining functional capacity will be recycled as far as possible.	Land site/ During construction	Contractor(s)		<b>✓</b>		N/A	-
S8.5	Use of reusable non-timber formwork to reduce the amount of C&D materials.	All areas/ During construction	Contractor(s)		<b>√</b>		N/A	WBTC 32/92, The Use of Tropical Hard Wood on Construction Site
S8.5	Prior to disposal of construction waste, wood, steel and other metals will be separated to the extent practical, for re-use and/or recycling to reduce the quantity of waste to be disposed of to landfill.	All areas/ During construction	Contractor(s)		<b>✓</b>		Implemented	DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials
S8.5	Proper storage and site practices to reduce the potential for damage or contamination of construction materials.	All areas/ During construction	Contractor(s)		<b>√</b>		Reminder issued	-
S8.5	Plan and stock construction materials carefully to reduce amount of waste generated and avoid unnecessary generation of waste.	All areas/ During construction	Contractor(s)		<b>√</b>		Implemented	-
S8.5	A Sediment Quality Report (SQR) for sampling and chemical testing of the sediment will be prepared and submitted to the EPD for approval. The approved detailed sampling and chemical testing will be carried out prior to the commencement of the dredging activities to confirm the sediment disposal method.	Marine works/ During construction	Contractor(s)		<b>√</b>		N/A	ETWB TC(W) No. 34/2002 and Dumping at Sea Ordinance (DASO)





EIA	Recommended Environmental Protection	Objectives of the	Implementation	Imp	lement	ation	Implementation	Relevant Legislation &
Reference	Measures/ Mitigation Measures	recommended measures & main concerns to address	Agent	D	Stage C	0	Status	Guidelines
S8.5	The management of dredged/ excavated sediment management requirement from <i>ETWB TC(W) No. 34/2002</i> will be incorporated in the Specification of the Contract Documents.	Marine works/ During construction	WSD/ Contractor(s)		✓	U	Implemented	ETWB TC(W) No. 34/2002 and Dumping at Sea Ordinance (DASO)
S8.5	The contractor will open a billing account with EPD in accordance with the Waste Disposal (Charges for Disposal of Construction Waste) Regulation for the payment of disposal charges.	Contract mobilisation/ During construction	Contractor(s)		✓		Implemented	Cap 354N Waste Disposal (Charges for Disposal of Construction Waste) Regulation
S8.5	A trip-ticket system will be established in accordance with DEVB TC(W) No. 6/2010 to monitor the reuse of surplus excavated materials off-site and disposal of construction waste and general refuse at transfer facilities/landfills, and to control fly-tipping.	Contract mobilisation/ During construction	Contractor(s)		<b>✓</b>		Implemented	DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials
S8.5	The project proponent will also conduct regular inspection of the waste management measures implemented on site as described in the Waste Management Plan.	All area/ During construction	Contractor(s)/ ET & IEC		<b>✓</b>		Implemented	ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites
S8.5	A recording system (similar to summary table as shown in Annex 5 and Annex 6 of Appendix G of ETWB TC(W) No. 19/2005) for the amount of waste generated, recycled and disposed of (including the disposal sites) will be established during the construction phase.	All area/ During construction	Contractor(s)		<b>✓</b>		Implemented	Annex 5 and Annex 6 of Appendix G of ETWB TC(W) No. 19/2005
S8.5	Inert C&D materials (public fill) will be reused within the Project as far as practicable.	All area/ During construction	Contractor(s)		<b>√</b>		Implemented	-
S8.5	Public fill and construction waste shall be segregated and stored in different containers or skips to facilitate reuse or recycling of materials and their proper disposal.	All area/ During construction	Contractor(s)		<b>✓</b>		Implemented	-
S8.5	Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable.	All area/ During construction	Contractor(s)		<b>✓</b>		Implemented	-
S8.5	To reduce the potential dust and water quality impacts of site formation works, C&D materials will be wetted as quickly as possible to the extent practice after filling.	All area/ During construction	Contractor(s)		✓		Implemented	Air Pollution Control (Construction Dust) Regulation (Cap 311R); WPCO (Cap 358)





EIA	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Impl	lementa Stage	ation	Implementation	Relevant Legislation &
Reference	Measures/ Mitigation Measures	main concerns to address	Agent	D	С	0	Status	Guidelines
S8.5	Open stockpiles of excavated/ fill materials or construction wastes on-site should be covered with tarpaulin or similar fabric.	Land site/ During Construction, particularly dry season	Contractor(s)		<b>√</b>		Reminder issued	Air Pollution Control (Construction Dust) Regulation (Cap 311R)
S8.5	Chemical waste container shall be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed.	All area/ During construction/ During operation	Contractor(s)/ WSD		<b>*</b>	<b>✓</b>	Implemented	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice
S8.5	Chemical waste container shall have a capacity of less than 450 L unless the specifications have been approved by the EPD.	All area/ During construction/ During operation	Contractor(s)/ WSD		<b>*</b>	✓	Implemented	on the Packaging, Handling and Storage of Chemical Wastes
S8.5	A label in English and Chinese shall be displayed on the chemical container in accordance with instructions prescribed in Schedule 2 of the Regulations.	All area/ During construction/ During operation	Contractor(s)/ WSD		<b>✓</b>	<b>√</b>	Implemented	
S8.5	Storage areas for chemical waste shall be enclosed on at least 3 sides.	All area/ During construction/ During operation	Contractor(s)/ WSD		<b>✓</b>	✓	Implemented	
S8.5	Storage areas for chemical waste shall have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest.	All area/ During construction/ During operation	Contractor(s) / WSD		<b>✓</b>	✓	Observation issued, rectified after issued.	
S8.5	Storage areas for chemical waste shall have adequate ventilation.	All area/ During construction/ During operation	Contractor(s) / WSD		<b>√</b>	<b>√</b>	Implemented	
S8.5	Storage areas for chemical waste shall be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary).	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	
S8.5	Storage areas for chemical waste shall be arranged so that incompatible materials are appropriately separated.	All area/ During construction/ During operation	Contractor(s)/ WSD		<b>√</b>	<b>√</b>	Implemented	
S8.5	General refuse will be stored in enclosed bins or compaction units separately from construction and chemical wastes.	All area/ During construction/ During operation	Contractor(s)/ WSD		<b>✓</b>	<b>✓</b>	Reminder issued	
S8.5	Adequate number of waste containers will be provided to avoid over-spillage of waste.	All area/ During construction/ During operation	Contractor(s)/ WSD		<b>✓</b>	✓	Implemented	DEVB TC(W) No. 8/2010 Enhanced Specification for Site Cleanliness and Tidiness.





EIA Reference	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Impl	ementa Stage	ation	Implementation Status	Relevant Legislation & Guidelines
Reference	Measures/ Mitigation Measures	main concerns to address	Agent	D	C	0	Status	duidellies
S8.5	A reputable waste collector will be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts.	All area/ During construction/ During operation	Contractor(s)/ WSD		<b>✓</b>	<b>✓</b>	Implemented	-
S8.5	Recycling bins will be provided at strategic locations within the Site to facilitate recovery of recyclable materials (including aluminum can, wastepaper, glass bottles and plastic bottles) from the Site. Materials recovered will be sold for recycling.	All area/ During construction/ During operation	Contractor(s)/ WSD		<b>√</b>	<b>✓</b>	Implemented	-
S8.5	To avoid any odour and litter impact, accurate number of portable toilets will be provided for workers on-site.	All area/ During construction	Contractor(s)		<b>√</b>		Implemented	-
S8.5	The burning of refuse on construction sites is prohibited by law.	All area/ During construction	Contractor(s)		<b>√</b>		Implemented	Air Pollution Control Ordinance (Cap 311)
S8.7	To facilitate monitoring and control over the contractors' performance on waste management, a waste inspection and audit programme will be implemented throughout the construction phase.	All facilities/ During construction	ET/ IEC		<b>✓</b>		Implemented	-





EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	Impl	lement Stage	ation	Implementation Status	Relevant Legislation & Guidelines
	Measures/ Mitigation Measures	main concerns to address	Agent	D	C	0	Status	Guidennes
Ecology				_				
S9.7	For slope mitigation works within the Clear Water Bay Country Park, to avoid tree felling and damages to trees, the exact locations of the flexible barrier foundation plates, soil nails and rock dowels can be adjusted during detailed design, and a setback distance from existing trees is recommended to be maintained as far as practical. A detailed specification describing the exact locations of the flexible barrier foundation plates, soil nails and rock dowels will be prepared to illustrate how the setback distance from existing trees would be implemented for tree avoidance.	Slope mitigation works area/ During detailed design/ During construction	Contractor(s)	<b>✓</b>	*		N/A	-
S9.7	Pruning of tree canopies along the alignment of the flexible barriers shall be limited to a minimum.	Slope mitigation works area/ During construction	Contractor(s)		<b>√</b>		Implemented	
S9.7	The alignment of flexible barriers shall be optimized to preserve all species of conservation interest and minimize the impact to the existing vegetation as far as practicable. All individuals of <i>Marsdenia lachnostoma</i> within the slope mitigation areas shall be retained <i>in- situ</i> , by positioning the alignment of flexible barrier at a minimum 1.5m in a radius away from these individuals.	Slope mitigation works area/ During detailed design/ During construction	Contractor(s)	<b>√</b>	~		N/A	-
S9.7 and 9.10	At the detailed design stage prior to the commencement of the slope mitigation works, a vegetation survey shall be carried out at the slope mitigation areas within the Clear Water Bay Country Park to assess the condition and identify the location of each individual of <i>Marsdenia lachnostoma</i> and other flora species of conservation interest that may be directly affected by the construction works.	Slope mitigation works area/ During detailed design/ During construction	Contractor(s)	✓	<b>✓</b>		N/A	-





EIA	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Imp	lementa Stage	ation	Implementation	Relevant Legislation &
Reference	Measures/ Mitigation Measures	main concerns to address	Agent	D	C	О	Status	Guidelines
S9.7	Temporary fencing will be installed to fence off the concerned species either in groups of individually within the works area and in the close proximity to prevent from being damaged and disturbed during construction. A sign identifying the site shall be attached to the fence and flagging tape shall be attached to the individuals to visualize their locations.	Slope mitigation works area/ During construction	Contractor(s)		<b>√</b>		N/A	-
S9.7 and S9.10	A specification for fencing and demarcating individuals of <i>Marsdenai lachnostoma</i> (or other flora species of conservation interest, if found) adjacent to the proposed alignment of the flexible barriers will be prepared to protect the species.	Slope mitigation works area/ During construction	Contractor(s)		<b>✓</b>		N/A	-
S9.7	Induction training shall also be provided to all site personnel in order to brief them on this flora of conservation interest including the locations and their importance.	Slope mitigation works area/ During construction	Contractor(s)		<b>✓</b>		N/A	-
S9.7	The resident site supervisory staff will closely monitor the conditions of concerned individuals during construction of flexible barriers in the close proximity.	Slope mitigation works area/ During construction	Contractor(s)		<b>✓</b>		N/A	-
S9.7	Erect fences along the boundary of the works area before the commencement of works to prevent vehicle movements and encroachment of personnel onto adjacent areas.	All area/ During construction	Contractor(s)		<b>✓</b>		Implemented	-
S9.7	Regularly check the work site boundaries to ensure that they are not breached and that damage does not occur to surrounding areas.	All area/ During construction	Contractor(s)/ ET		<b>√</b>		Implemented	-
S9.7	Avoid any damage and disturbance, particularly those caused by filling and illegal dumping, to the surrounding habitats through proper management of waste disposal.	All area/ During construction	Contractor(s)		<b>✓</b>		Implemented	-
S9.7	Reinstate temporarily affected areas, particularly the habitats of plantation and shrubland-grassland immediately after completion of construction works, through on-site tree/shrub planting. The tree/shrub species will be chosen with reference to those in the surrounding area.	All area/ During construction	Contractor(s)		<b>√</b>		N/A	-





EIA Reference	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation Agent	Impl	ementa Stage	ation	Implementation Status	Relevant Legislation & Guidelines
Reference	Measures/ Mitigation Measures	main concerns to address	Agent	D	C	O	Status	duluennes
S9.7	Affected habitats within the Clear Water Bay Country Bay shall be reinstated by hydro-seeding and planting of climbers and native shrub seedlings where practical upon completion of the slope mitigation works.	All area/ During construction	Contractor(s)		<b>√</b>		N/A	-





EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to	Implementation Agent	Imp	lemen Stage		Implementation Status	Relevant Legislation & Guidelines
Reference	Measures Mitigation Measures	address	ngene	D	С	0	Status	duidennes
Landscap	e & Visual							
S11.10 & 11.11	The construction area and area allowed for temporary structures, such as the contractor's office, will be minimized to a practical minimum. (MM1)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	<b>√</b>	<b>✓</b>	<b>*</b>	Implemented	-
S11.10 & 11.11	At the detailed design stage, the design team will seek to minimize the landscape footprint of the Project and above ground facilities, while satisfying all other requirements. (MM2)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	<b>√</b>	<b>✓</b>	<b>✓</b>	Implemented	-
S11.10 & 11.11	Design principles will be adopted to take into account the surrounding area, particularly Clear Water Bay Country Park behind and the nearby waterfront, with due consideration given to:  - green roofs where practical (i.e., without equipment on the roof);  - roadside planting;  - aesthetic treatment of all structures;  - vertical greening;  - screen planting along application site; and  - landscape enhancement with amenity planting where practical including planting along the edge (site boundary) fence with native shrubs where feasible to reduce their visual impact and blend them into the surrounding landscape.(MM3)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	*	•	•	Implemented	-
S11.10 & 11.11	All trees within the Project Site or the potential slope mitigation works area will be carefully protected during construction according to DEVB TCW No. 10/2013 – Tree Preservation (MM4)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	<b>√</b>	✓	<b>✓</b>	Observation and reminder issued. Rectified after observation.	ETWB TCW No. 3/2006 - Tree Preservation.





\$11.10 & 11.11	No tree within the Country Park will be felled. Trees within the Site unavoidably affected by the works will be transplanted where necessary and practical. For trees that need to be felled, compensatory planting will be provided to the satisfaction of relevant Government departments. A compensatory tree planting proposal including locations of tree compensation will be submitted to seek relevant government department's approval, in accordance with DEVB TC(W) No. 10/2013.	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	•	<b>√</b>	<b>✓</b>	N/A	DEVB TC(W) No. 10/2013
	(MM5)							





EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to	Implementation Agent		lement Stage	!	Implementation Status	Relevant Legislation & Guidelines
	, -	address	J	D	C	0		
Landfill G								
S12.7	During all works, safety procedures should be implemented to minimise the risks of fires and explosions, asphyxiation of workers and toxicity effects resulting from contact with contaminated soil and groundwater.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	<b>~</b>	•	•	Implemented	-
S12.7	During trenching and excavation as well as creation of confined spaces at near to or below ground level, precautions should be clearly laid down and rigidly Gas detection equipment and appropriate breathing apparatus should be available and used when entering confined spaces or trenches deeper than 1 meter.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	<b>√</b>	•	<b>✓</b>	Implemented	-
S12.7	The Contractor should make the workers are aware of potential hazards of working in confined spaces (any chamber, manhole or culvert which is large enough to permit access to personnel). Such work in confined spaces is controlled by the Factories and Industrial Undertakings (Confined Spaces) Regulations of the Factories and Industrial Undertakings Ordinance. Following the Safety Guide to Working in Confined Spaces ensures compliance with the above regulations.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	<b>✓</b>	<b>V</b>	<b>✓</b>	Implemented	-
S12.7	Safety officers, specifically trained with regard to landfill gas and leachate related hazards and the appropriate actions to take in adverse circumstances, should be present on the site throughout the works, in particular, when works are undertaken below grade.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	<b>√</b>	<b>√</b>	<b>✓</b>	Implemented	-
S12.7	All personnel who work on site and all visitors to the site should be made aware of the possibility of ignition of gas in the vicinity of the works, the possible presence of contaminated water and the need to avoid physical contact with it.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	<b>√</b>	<b>✓</b>	<b>✓</b>	Implemented	-
S12.7	Monitoring for landfill gas should be undertaken in all excavations, manholes, chambers (particularly during pipe jacking) and any confined spaces through the use of an intrinsically safe portable	All area/ Detailed design/ During construction/ During operation	Contractor(s)	✓	<b>✓</b>	<b>✓</b>	Implemented	-





S12.7	instrument, appropriately calibrated and capable of measuring the concentrations of methane. carbon dioxide and oxygen.  Monitoring frequency and areas to be monitored should be specified prior to commencement of groundwork, either by the Safety Officer, or by an appropriately qualified person. All measurements should be recorded and documented.  Proceed drilling with adequate care and precautions against the potential hazards which	All area/ Detailed design/ During construction/ During operation  All area/ Detailed design/ During construction/	Contractor(s)  Contractor(s)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	Implemented Implemented	-
S12.7	may be encountered.  Prior to the commencement of the site works, the	During operation	Contractor(s)	<b>1</b>	<b>✓</b>	<b>✓</b>	Implemented	
512.7	drilling contractor should devise a 'method-of-working' statement covering all normal and emergency procedures (including but not limited to number of operatives, experience and special skills of operatives, normal method of operations, emergency procedures, supervisors' responsibilities, storage and use of safety equipment, safety procedures and signs, barriers and guarding). The site supervisor and all operatives must be familiar with this statement.	All area/ During construction/ During operation	Contractor(s)	v	·	·	implemented	-
S12.7	Where below ground service entries are necessary to the Incoming Switchgear Room, 132 kV Substation and Chlorine Store (I) and (II), the entry point should be sealed to prevent gas entry. In addition, any below grade cable trenches entering the Incoming Switchgear Room and 132 kV Substation can become the pathway for landfill gas and hence grilled metal covers should be used.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	<b>√</b>	<b>✓</b>	<b>✓</b>	N/A	-
S12.7	It is recommended regular landfill gas monitoring should be carried out at the Incoming Switchgear Room, 132 kV Substation and Chlorine Store (I) and (II). The monitoring frequency will be monthly for the first year of operation. If the monitoring results show no sign of landfill gas migration, reduce the monitoring frequency to once every six months.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	<b>✓</b>	•	•	N/A	-





S12.7	The manholes and utility pits within the Project Site and along the freshwater mains. Each manhole/ utility pit should be monitored with two measurements (at mid depth and base). Each measurement should be monitored for a minimum of 10 minutes. A steady reading and peak reading should be recorded at each manhole/ utility pit and for each measurement. The need for venting the manhole/ utility pit and further monitoring will be reviewed after the initial monitoring.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	•	<b>√</b>	<b>✓</b>	Implemented	-
S12.7	All construction, operation and maintenance personnel working on-site as well as visitors should be made aware of the hazards of landfill gas and its possible presence on-site. This should be achieved through a combination of posting warning signs in prominent places and also by access to detailed information on landfill gas hazards and the designs and procedural means by which these hazards are being minimized on-site.	All area/ Detailed design/ During construction/ During operation	Contractor(s)		•	•	Implemented	-





# Appendix D

Summary of Exceedance

Contract No. 13/WSD/16 Mainlaying in Tseung Kwan O Quarterly EM&A Report





### **Summary of Exceedance**

Environmenta l Monitoring	Parameter	No. of non- Project related exceedance in the reporting period		Total No. of non-Project related exceedance in the reporting	rela exceed	Project ated ance in porting riod	Total No. of Project related exceedance in the reporting	
		AL	LL	period	AL	LL	period	
Noise	Leq (30min)	0	0	0	0	0	0	
	02	0	0	0	0	0	0	
Landfill Gas	CH <sub>4</sub>	0	0	0	0	0	0	
	CO <sub>2</sub>	0	0	0	0	0	0	





Appendix E

Complaint Log





#### **Statistical Summary of Environmental Complaints**

Reporting	Environmental Complaint Statistics						
Period	Frequency	Cumulative	Complaint Nature				
1 Feb 22 - 30 Apr 22	0	3	N/A				

#### **Statistical Summary of Environmental Summons**

Reporting	Environmental Summons Statistics						
Period	Frequency	Cumulative	Details				
1 Feb 22 - 30 Apr 22	0	0	N/A				

#### **Statistical Summary of Environmental Prosecution**

Reporting Period	Environmental Prosecution Statistics						
Period	Frequency	Cumulative	Details				
1 Feb 22 - 30 Apr 22	0	0	N/A				





## Appendix F

Event / Action Plan for Noise and Landfill Gas





### Event / Action Plan for Construction Noise Monitoring

Event	Action									
	ET	IEC	ER	Co	ntractor					
Action Level	<ol> <li>1.</li> <li>2.</li> </ol>	Carry out investigation to identify the 1. source and cause of the complaint/ exceedance(s) 2. Notify IEC, ER, and Contractor and	Review the analysed results 1. submitted by the ET Review the proposed remedial 2. measures by the Contractor and	Confirm receipt of Notification of 1.  Exceedance in writing  Require Contractor to propose remedial 2.  measures for the analysed noise	Submit noise mitigation proposals, if required, to the IEC and ER Implement noise mitigation proposals.					
		report the results of investigation to the Contractor, ER and the IEC 3.	advise the ER accordingly Supervise the implementation of 3.	problem Ensure remedial measures are properly	proposition of the proposition o					
	3.	Discuss with the Contractor and IEC for remedial measures required	remedial measures	implemented						
	4.	If the complaint is related to the Project, conduct additional monitoring for checking mitigation effectiveness and report the findings and results to the IEC, ER and the Contractor								
Limit Level	1.	Carry out investigation to identify the 1. source and cause of the exceedance	Review the analysed results 1. submitted by the ET	Confirm receipt of Notification of 1. Exceedance in writing	Take immediate action to avoid further exceedance					
	2.	Notify IEC, ER, Project Proponent, EPD 2. and Contractor	Discuss the potential remedial 2. measures with ER, ET Leader, and	Require the Contractor to propose 2. remedial measures for	Submit proposals for remedial actions to IEC and ER within 3					
	3.	Repeat measurements to confirm findings 3.	Contractor Review Contractors remedial 3.	the analysed noise problem  Ensure remedial measures are properly 3.	working days of notification Implement the agreed proposals					
	4.	Provide investigation report to IEC, ER, EPD and Contractor he causes of the exceedances	actions whenever necessary to assure their effectiveness and advise 4. the ER accordingly	implemented 4. If exceedance continues, consider what activity of the work is responsible and 5.	Resubmit proposals if problem still not under control Stop the relevant activity of works					
	5.	If the exceedance is related to the 4. Project, assess effectiveness by additional monitoring.	Supervise the implementation of remedial measures	instruct the Contractor, in agreement with the Project Proponent, to stop that activity of work until the exceedance is	as determined by the Project Proponent until the exceedance is abated					
	6.	Report the remedial action implemented and the additional monitoring results to IEC, EPD, ER and Contractor		abated						
	7.	If exceedance stops, cease additional monitoring								





Action and Level and Event/ Action Plan for Landfill Gas Monitoring

Parameters	Level	Action			
Oxygen (O <sub>2</sub> )	Action Level < 19% O <sub>2</sub>	Ventilate trench/void to restore $0_2$ to > 19%			
	Limit Level < 19% O <sub>2</sub>	Stop works			
		Evacuate personnel/prohibit entry			
		Increase ventilation to restore			
		$O_2$ to > 19%			
Methane (CH <sub>4</sub> )	Action Level >10% LEL	Post "No Smoking" signs			
		Prohibit hot works			
		Increase ventilation to restore			
		CH <sub>4</sub> to <10% LEL			
	Limit Level >20% LEL	Stop works			
		Evacuate personnel/prohibit			
		entry			
		Increase ventilation to restore			
		CH <sub>4</sub> to<10% LEL			
Carbon Dioxide (CO <sub>2</sub> )	Action Level >0.5% CO <sub>2</sub>	Ventilate to restore CO <sub>2</sub> to < 0.5%			
	Limit Level >1.5% CO <sub>2</sub>	Stop works			
		Evacuate personnel / prohibit			
		entry			
		Increase ventilation to restore			
		CO <sub>2</sub> to <0.5%			





# Appendix G

Waste Flow Table





#### **Appendix G - Waste Flow Table**

	Ac	ctual Quantitie	es of Inert C&D	Materials Ge	nerated Month	ıly	Actual	Quantities of N	on-C&D Wast	es Generated I	Monthly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Project	Disposed as Public Fill	Imported Fill	Metals	Paper / Cardboard packaging	Plastics	Chemical Waste	Other, e.g., general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in'000kg)	(in'000kg)	(in'000kg)	(in'000kg)	(in '000m <sup>3</sup> )
Jan 2022	2.342	0.145			2.014	0.328		0.065			0.006
Feb 2022	2.184	0.240			1.855	0.329		0.058			0.001
Mar 2022	1.284	0.028	0.096		1.188	0.860		0.054			0.002
Apr 2022	0.840	0.012	0.188		0.652	0.751		0.055			0.003
May 2022											
Jun 2022											
Sub-total	6.650	0.425	0.284		5.709	2.268		0.232			0.012
Jun 2022											
Aug 2022											
Sep 2022											
Oct 2022											
Nov 2022											
Dec 2022											
Total	6.650	0.425	0.284		5.709	2.268		0.232			0.012

#### Notes:

- Total quantity Generated only refers to the actual Quantitates of inert C&D materials generated monthly excluding those that will be recycled (Hard rock & large broken concrete, reused in contract and reused in another contract). Imported fill will not be included in total quantity generated as those C&D materials are not generated from this project.
- 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 materials.