





Contract No. 13/WSD/16

Mainlaying in Tseung Kwan O

Monthly EM&A Report No. 59 (Period from 1 June to 30 June 2023)

1 August 2023 (Rev. 2)

	Prepared by:	Reviewed by:	Certified by:
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Position	Environmental Team Member	Environmental Team Member	Environmental Team Leader
Signature		Loward	
Date:	1 August 2023	1 August 2023	1 August 2023



Water Supplies Department New Works Branch Construction Division 11 Tai Yip Lane Kowloon Bay Kowloon Hong Kong

Attention: Mr Henry Chan

Your reference:

Our reference:

HKWSD201/50/109090

Date:

2 August 2023

BY POST

Dear Sirs

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 Monthly EM&A Report No.59

We refer to emails of 10 July and 1 August 2023 attaching Monthly EM&A Report No.59 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 2618 2831.

Yours faithfully

ANEWR CONSULTING LIMITED

Independent Environmental Checker

CPSJ/KSYL/lsmt

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





Revision History

Rev.	DESCRIPTION OF MODIFICATION	DATE
0	1st Submission	10/07/2023
1	2 nd Submission	01/08/2023

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





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EXECUTIVE SUMMARY

Introduction

- 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. This is the 59th Monthly EM&A Report, prepared by ASCL, for the Project summarizing the monitoring results and audit findings of the EM&A programme at and around Tseung Kwan O (TKO) during the reporting period from 1 June to 30 June 2023.
- A4. The EM&A programme for this contract has covered environmental monitoring on construction noise level at selected NSRs and Contractor's environmental performance auditing in the aspects of construction dust, construction noise, water quality, waste management, landscape and visual and ecology.

Summary of Main Works Undertaken & Key Mitigation Measures Implemented

A5. Key works carried out in this reporting period for the Project included the followings:

Location	Construction activities carried in the reporting month
Wan Po Road and TKO Area 137	 Open trench method Water main installation inside sleeve pipe Trenchless method (sleeve pipe) Hydrostatic Pressure test
TKO Promenade (Stage 1 Landfill) & Po Yap Road Roundabout	Open trench methodWater main installation inside sleeve pipeHydrostatic Pressure test
HK Velodrome	Open trench methodWater main installation inside sleeve pipe
Po Lam Road South / Ling Hong Road	 Open trench method Water main installation inside sleeve pipe Trenchless method (sleeve pipe)
Tsui Lam Road / Abandoned Road	Open trench methodTrenchless method (sleeve pipe)Hydrostatic Pressure test

- A6. The major environmental impacts brought by the above construction works include:
 - Construction dust and noise generation from mainlaying of pipes, and excavation;
 - Waste generation from the construction activities; and
 - Impact on water quality from construction activities





- A7. The key environmental mitigation measures implemented for the Project in this reporting period associated with the above construction works include:
 - Reduction of construction dust generation from mainlaying of pipes, and excavation;
 - Reduction of noise from equipment and machinery on-site;
 - Sorting and storage of general refuse and construction waste; and
 - Treatment of wastewater through water treatment facilities before discharge

Summary of Exceedance & Investigation & Follow-up

- A8. Noise monitoring was scheduled in the reporting month for NSR4 Creative Secondary School on 9, 15, 21 and 27 June 2023 as construction works were conducted within 300m to the noise sensitive receiver. No Action or Limit Level exceedance was recorded during the reporting period.
- A9. Landfill gas monitoring was carried out by the Registered Safety Officer of the Contractor at the excavation locations and within the consultation zones for 522 times. All the measured results were presented in **Appendix J** and were within the Action and Limit Levels.

Complaint Handling and Prosecution

A10. No environmental complaint, notifications of summons and prosecution was received in the reporting month.

Reporting Change

A11. There were no changes reported that may affect the on-going EM&A programme.

Summary of Upcoming Key Issues and Key Mitigation Measures

A12. Key works in the next reporting month for the Project will include the followings:

Location	Construction activities to be carried out in next reporting month
Wan Po Road and TKO Area 137	 Open trench method Water main installation inside sleeve pipe Trenchless method (sleeve pipe) Hydrostatic Pressure test
TKO Promenade (Stage 1 Landfill) & Po Yap Road Roundabout	 Open trench method Water main installation inside sleeve pipe Hydrostatic Pressure test
HK Velodrome	 Open trench method Water main installation inside sleeve pipe
Po Lam Road South / Ling Hong Road	 Open trench method Water main installation inside sleeve pipe Trenchless method (sleeve pipe)
Tsui Lam Road / Abandoned Road	Open trench methodTrenchless method (sleeve pipe)Hydrostatic Pressure test





- A13. The major environmental impacts brought by the above construction works will include:
 - Construction dust and noise generation of mainlaying of pipes, and excavation works;
 - · Waste generation from construction activities; and
 - Impact on water quality from construction activities.
- A14. The key environmental mitigation measures for the Project in the coming reporting period associated with the above construction works will include:
 - Reduction of construction dust generation of mainlaying of pipes, and excavation works by regular water spraying and covering of dusty materials with screenings;
 - Reduction of noise from equipment and machinery on-site;
 - Sorting and storage of general refuse and construction waste; and
 - Treatment of wastewater through water treatment facilities before discharge.





1. BASIC PROJECT INFORMATION

1.1 Background

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 freshwater 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.

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.

The scope of the Contract may be considered in brief, to consist of the laying of about 10 km long 1200 mm 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

This is the 59th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 June to 30 June 2023.

1.3 Project Organization

The Project Organization structure for Construction Phase is presented in **Figure 1.1**.

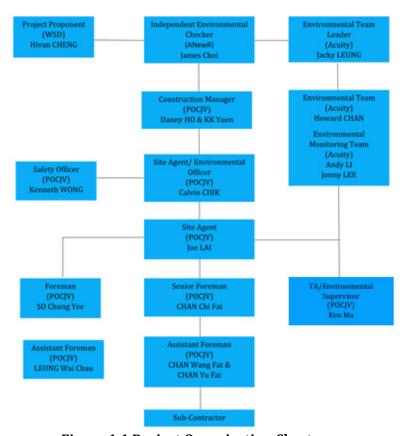


Figure 1.1 Project Organization Chart





Contact details of the key personnel are presented in **Table 1.1** below:

Table 1.1 Contact details of the 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

1.4 Summary of Construction Works

Details of the major construction works undertaken in this reporting period are shown in **Table 1.2** and the construction works locations are shown in **Appendix B**. The construction programme is presented in **Appendix A**.

Table 1.2 Summary of the Construction Works Undertaken during the Reporting Month

Table 1.2 Summary of the Construction Works Undertaken during the Reporting Month			
Location	Construction activities carried out in the reporting month		
Wan Po Road and TKO Area 137	 Open trench method Water main installation inside sleeve pipe Trenchless method (sleeve pipe) Hydrostatic Pressure test 		
TKO Promenade (Stage 1 Landfill) & Po Yap Road Roundabout HK Velodrome	 Open trench method Water main installation inside sleeve pipe Hydrostatic Pressure test Open trench method 		
Po Lam Road South / Ling Hong Road	 Water main installation inside sleeve pipe Open trench method Water main installation inside sleeve pipe Trenchless method (sleeve pipe) 		
Tsui Lam Road / Abandoned Road	 Open trench method Trenchless method (sleeve pipe) Hydrostatic Pressure test 		

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 Environmental Licence, Notification and Permit

Reference No.	Valid Period		Status	Remark		
Reference No.	From	To	Status	Kemark		
Variation of Environmental Permit						
EP no.: EP-503/2015/A		-	Valid	N/A		
Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation						
423775			Valid	N/A		





Reference No.	Valid Period		Status	Remark		
Reference No.	From	То	Status	Kelliai k		
Chemical Waste Produc	Chemical Waste Producer Registration					
5213-839-P3287-01			Valid	N/A		
Billing Account for Disp	Billing Account for Disposal of Construction Waste					
A/C no.: 7029491			Valid	N/A		
Water Discharge Licence						
WT00032336-2018	10 Dec 2018	31 Dec 2023	Valid	N/A		

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	On-going On-going			
	Waste Management			
Mitigation Measures in Waste Management Plan	On-going			
	Landfill Gas			
Impact Monitoring	On-going			
Environmental Audit				
Site Inspection	On-going			

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.

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

To ensure no adverse noise impact, noise monitoring is recommended to be carried out within 300m radius from the nearby noise sensitive receivers (NSRs), during construction phase. The NSRs selected as monitoring station are (i) NSR4 – Creative Secondary School, (ii) NSR24 – PLK Laws Foundation College, and (iii) NSR31 – School of Continuing and Professional Studies – CUHK respectively.

Referring to EM&A Manual Section 4.1.2, the impact noise monitoring should be carried out at all the designated monitoring stations when there are project-related construction activities undertaken within a radius of 300m from the monitoring stations.

Impact monitoring for noise impact was conducted in the reporting month for NSR4 – Creative Secondary School on 9, 15, 21 and 27 June 2023 as construction works were conducted within 300m to the noise sensitive receiver. Detailed monitoring results can be found in **Appendix G**.

2.2 Noise Monitoring Parameters, Time, Frequency

Impact noise monitoring was conducted weekly in the reporting period between 0700-1900 on normal weekdays. Construction works will follow the requirements as stipulated in the valid CNPs if works have to be conducted in the restricted hours.

Construction noise level was measured in terms of the A-weighted equivalent continuous sound pressure level (L_{Aeq}). $L_{eq\;30min}$ 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. The monitoring schedule is provided in **Appendix D**.

Table 2.1 Noise Monitoring Parameters, Time, Frequency and Duration

Time	Frequency	Duration	Parameters
Daytime: 0700-1900	Once per week	$\begin{array}{c} \text{Continuously in} \\ L_{\text{eq }5\text{min}}/L_{\text{eq }30\text{min}} \text{(average of 6} \\ \text{consecutive } L_{\text{eq }5\text{min}} \text{)} \end{array}$	L _{eq} , L ₁₀ & L ₉₀

2.3 Noise Monitoring Locations

The monitoring locations should normally be made at a point 1m from the exterior of the NSRs building façade and be at a position 1.2m above the ground. A correction of +3dB(A) should be made to the free-field measurements.

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** below.

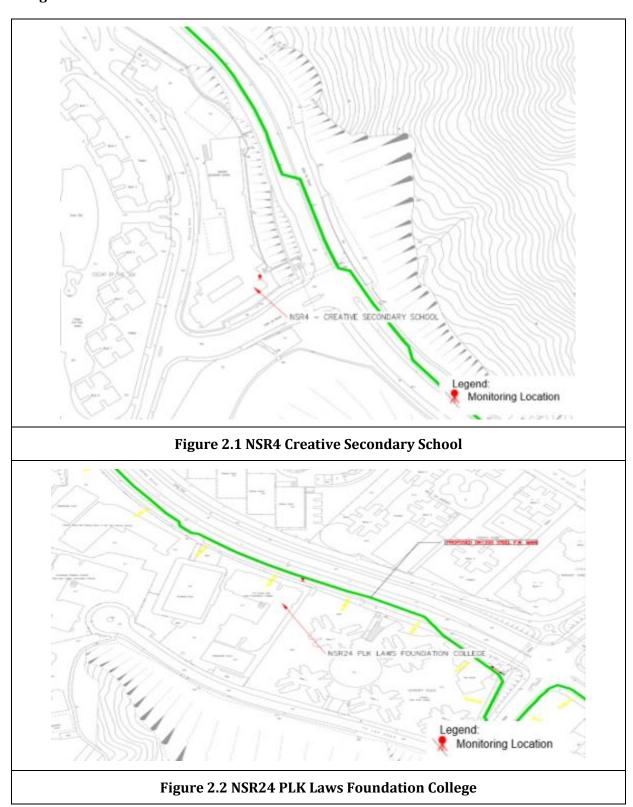
Table 2.2 Noise Monitoring Location

NSR ID	Noise Sensitive Receivers	Monitoring Location	Position
NSR 4	Creative Secondary School	Roof Floor	1 m from facade
NSR 24	PLK Laws Foundation College	Pedestrian Road on Ground Floor	Free-field
NSR 31	School of Continuing and Professional Studies - CUHK	Roof Floor	1 m from facade



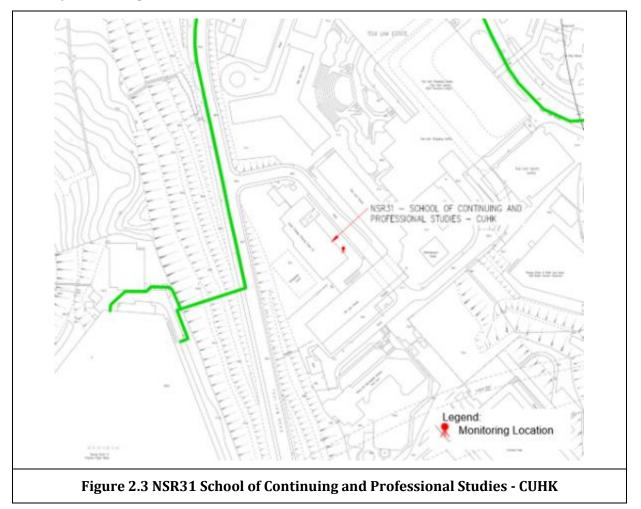


Three noise monitoring locations for impact monitoring at the nearby sensitive receivers are shown in **Figure 2.1-2.3**.









2.4 Impact Monitoring Methodology

Integrated sound level meters were used for the noise monitoring. The meters were in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications. Immediately prior to and following each noise measurement the accuracy of the sound level meters was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration level before and after the noise measurements agree to within $1.0~\mathrm{dB}(A)$.

Calibration certificates of the instruments used are presented in **Appendix E**. Noise measurements were not made in the presence of fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed was checked with a portable wind speed meter capable of measuring the wind speed in m/s.

Table 2.3 Impact Noise Monitoring Equipment

Equipment	Brand and Model	Serial Number	Date of Calibration	Expiry Date
Sound Level Meter	Lutron, SL-4033SD	I.588921	21 Mar 2023	20 Mar 2024
Sound Level Meter Calibrator	RION, NC75	35124529	2 Nov 2022	1 Nov 2023
Pocket Wind Meter Anemometer	Kestrel 1000 Wind Meter	Nil	Nil	Nil





2.5 Action and Limit Levels

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 2.4**.

Table 2.4 Action and Limit Levels for Noise

Time Period O700-1900 on normal weekdays Notes: Action Level When one documented complaint is received from any one of the noise sensitive receivers Limit Level (dB(A)) 70 dB(A) for school and 65 dB(A) during examination period							
	is received from any one of the	• 65 dB(A) during					
	and IND-TM for construction and operation i	noise, respectively.					

If exceedances are found during noise monitoring, the actions in accordance with the Event and Action Plan will be carried out according to **Appendix F**.

2.6 Monitoring Results and Observations

Referring to EM&A Manual Section 4.1.2, impact monitoring for noise impact was scheduled weekly in the reporting month for NSR4 – Creative Secondary School on 9, 15, 21 and 27 June 2023. Detailed monitoring results are presented in **Appendix G**.

No construction works were conducted within 300m radius of NSR24 and NSR31. Thus, no construction noise monitoring works was carried at these two locations in the reporting month.

No action or limit level exceedance was recorded for construction noise monitoring during the reporting period.





3. WASTE MANAGEMENT

The waste generated from this Project includes inert construction and demolition (C&D) materials, and non-inert C&D materials. Non-inert C&D materials are made up of general refuse, vegetative wastes, and recyclable wastes such as plastics and paper/cardboard packaging waste. Steel materials generated from the project are also grouped into non-inert C&D materials as these materials were not disposed of with other inert C&D materials. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are summarised in **Table 3.1**. Details of cumulative waste management data are presented as a waste flow table in **Appendix H**.

Table 3.1 Quantities of waste generated from the Project

			Quai	ntity		
				Non-inert C&D Ma	aterials	
Reporting period	Materials	Chemical Waste	Others, e.g., General Refuse	Recy	cled materia	ıls
	Materials (in '000m³) Waste (in '000kg) Others, e.g., General Refuse disposed at Landfill (in '000m³) Paper/cardboard Plastics	Plastics (in '000kg)	Metals (in '000kg)			
June 2023	1.400	0.000	0.007	0.052	0.000	0.000





4. LANDFILL GAS MONITORING

4.1 Monitoring Requirement

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 fresh water 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.

4.2 Monitoring Location

Monitoring of oxygen, methane, carbon dioxide and barometric pressure was performed for excavations at 1m depth or more within the Consultation Zone.

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.

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.

The area required to be monitored for landfill gas in the reporting period are shown in **Figure 4.1** to **Figure 4.9**.





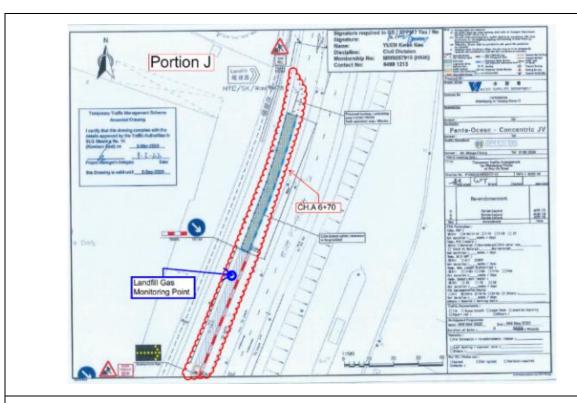


Figure 4.1 Monitoring Location - CH.A 6+70

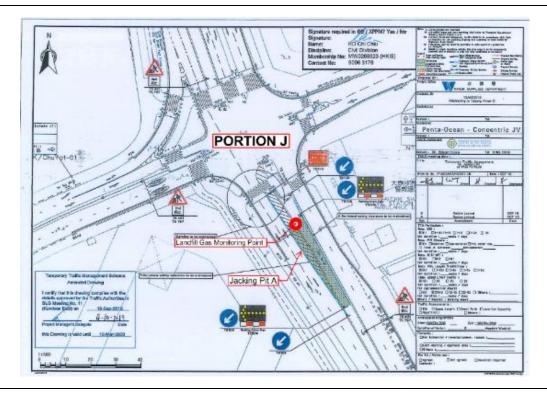


Figure 4.2 Monitoring Location - CH.A 13+50 ~ 14+00 (Pit A)





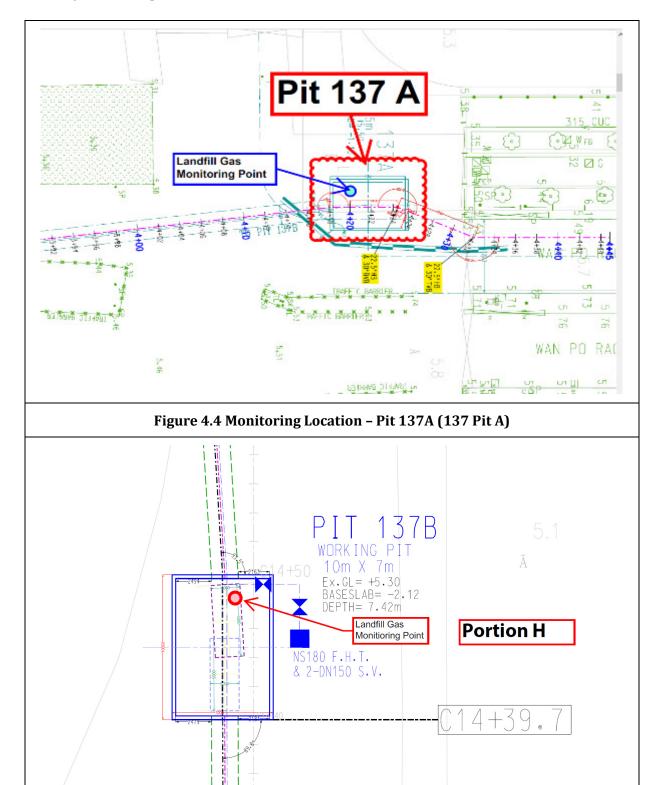


Figure 4.5 Monitoring Location - Pit 137B (137 Pit B)





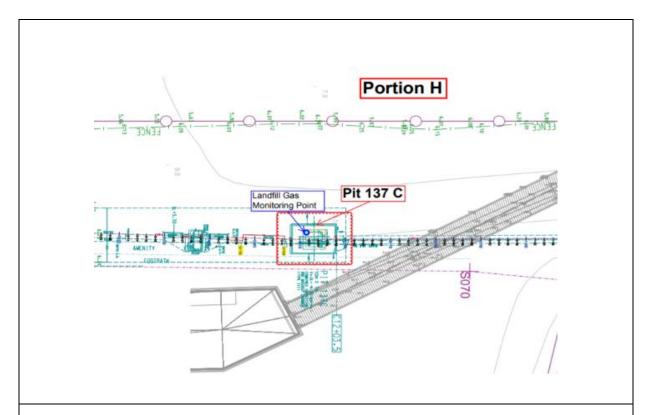


Figure 4.6 Monitoring Location - Pit 137C (137 Pit C)

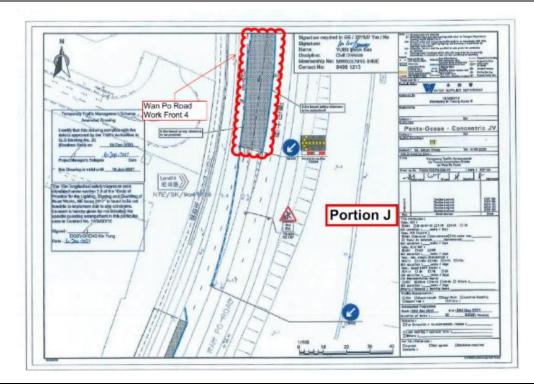


Figure 4.7 Monitoring Location - Wan Po Road 4





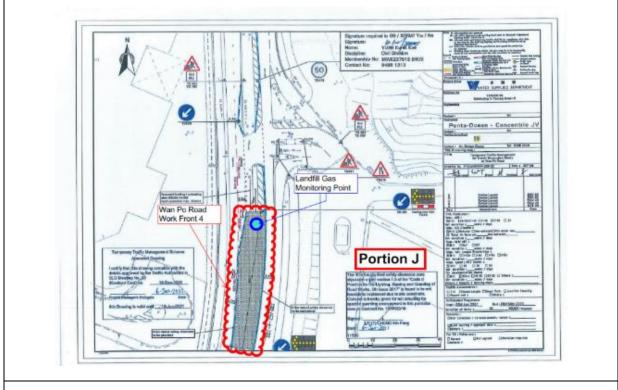


Figure 4.8 Monitoring Location - Wan Po Road 5





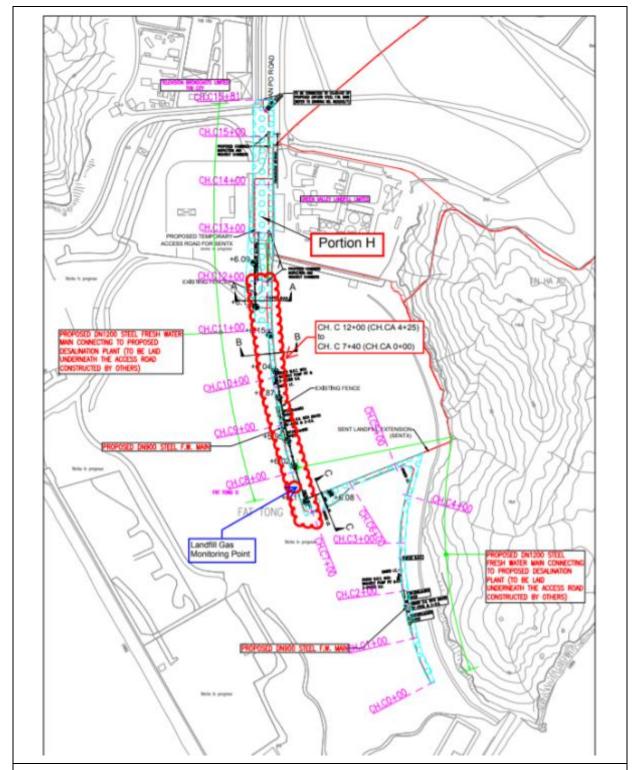


Figure 4.9 Monitoring Location -CH.CA 0+00 to CH.CA 04+25 (CH.C 7+40 ~ 12+00)





4.3 Monitoring Parameters

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.

The following parameters were monitored:

- Methane.
- Oxygen.
- Carbon Dioxide.
- Barometric Pressure.

4.4 Action and Limit Level

Action and Limit Level are provided in **Table 4.1**.

Table 4.1 Action and Limit Level for Landfill Gas Monitoring Equipment

Parameters	Action Level	Limit Level
Oxygen (O ₂)	<19% 02	<19% 02
Methane (CH ₄)	>10% LEL	>20% LEL
Carbon Dioxide (CO2)	>0.5% CO ₂	>1.5% CO ₂

4.5 Monitoring Equipment

Landfill Gas monitoring was carried out using intrinsically safe, portable multi-gas monitoring instruments. The gas monitoring equipment is:

- Complying with the Landfill Gas Hazard Assessment Guidance Note as intrinsically safe;
- Capable of continuous barometric pressure and gas pressure measurements;
- Normally operated in diffusion mode unless required for spot sampling, when it should be capable of operating by means of an aspirator or pump;
- Having low battery, fault and over range indication incorporated;
- Capable of storing monitoring data, and shall be capable of being down-loaded directly;
- Measure in the following ranges:

methane	0-100% Lower Explosion Limit (LEL) and 0-100% v/v;
oxygen	0-25% v/v;
carbon dioxide	0-5% v/v; and
barometric pressure	mBar (absolute)

alarm (both audibly and visually) in the event that the concentrations of the following are exceeded:

methane	>10% LEL;
oxygen	<19% by volume; and
carbon dioxide	>0.5% by volume
barometric pressure	mBar (absolute)

Monitoring Equipment used in the reporting period are summarised in **Table 4.2**. The Landfill Gas monitoring equipment calibration certificate is presented in **Appendix I**.





Table 4.2 Landfill Gas Monitoring Equipment

Equipment	Brand and Model	Calibration Expiry Date
Dowtoble Cas Dotoston	PGM-2500 QRAE III	27 July 2023
Portable Gas Detector	XT-XWHM-Y-OR	2 September 2023
CO2 Analyzer	TES, 1307H	16 November 2023

4.6 Monitoring Results

In the reporting period, construction works within the consultation zones, excavations of 1m depth or more was monitored. Landfill gas monitoring was carried out by the Registered Safety Officer of the Contractor at the excavation locations for 522 times. All the measured results were presented in **Appendix J** and were within the Action and Limit Levels.

Table 4.3 Action and Limit Levels and Event and Action Plan for LFG Hazard

Parameters	Level	Action
Oxygen (O ₂)	Action Level < 19% O ₂	Ventilate trench/void to restore O_2 to > 19%
Oxygen (O ₂)		Stop works
	Limit Level $< 19\% O_2$	Evacuate personnel/prohibit entry
		Increase ventilation to restore 0_2 to > 19%
		Post "No Smoking" signs
	Action Level >10% LEL	Prohibit hot works
Methane (CH ₄)		Increase ventilation to restore CH ₄ to <10% LEL
		Stop works
	Action Level $< 19\% O_2$ Ventilate Stop work Limit Level $< 19\% O_2$ Evacuate Increase Post "No Action Level $> 10\%$ LEL Prohibit lane (CH ₄) Increase Stop work Limit Level $> 20\%$ LEL Evacuate Increase Stop work Limit Level $> 0.5\%$ CO ₂ Ventilate Stop work Limit Level $> 1.5\%$ CO ₂ Evacuate	Evacuate personnel/prohibit entry
		Increase ventilation to restore CH ₄ to<10% LEL
Carbon Dioxide	Action Level >0.5% CO ₂	Ventilate to restore CO_2 to $< 0.5\%$
(CO_2)		Stop works
(002)	Limit Level >1.5% CO ₂	Evacuate personnel / prohibit entry
		Increase ventilation to restore CO ₂ to <0.5%





5. SUMMARY OF EXCEEDANCE, COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

The Environmental Complaint Handling Procedure is shown in below **Figure 5.1**:

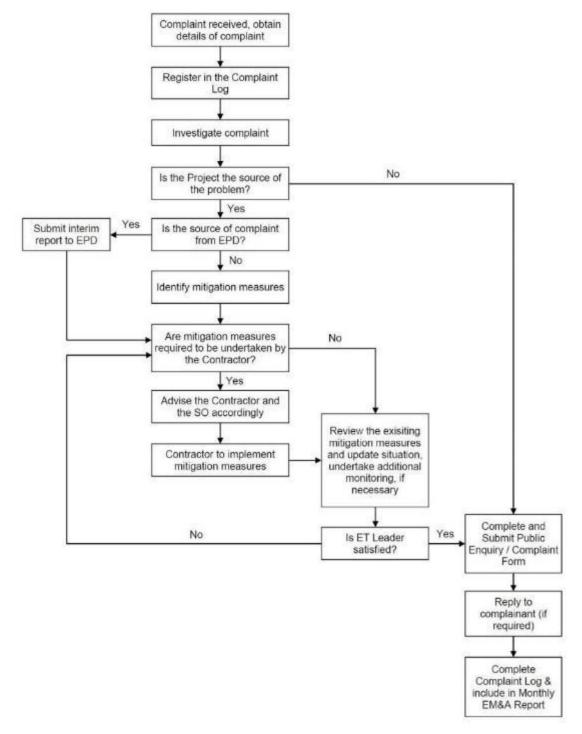


Figure 5.1 Environmental Complaint Handling Procedure





Impact monitoring for noise impact was scheduled in the reporting month for NSR4 – Creative Secondary School on 9, 15, 21 and 27 June 2023 as construction works were conducted within 300m to the noise sensitive receiver. Detailed monitoring results can be found in **Appendix G**. No action or limit levels exceedance was recorded in the reporting period.

Landfill gas monitoring was carried out by the Registered Safety Officer of the Contractor at the excavation locations and within the consultation zones for 522 times. All the measured results were presented in **Appendix J** and were within the Action and Limit Levels.

No environmental complaint, notification of summons and prosecution was received in the reporting period.

Statistics on complaints and regulatory compliance are summarized in **Appendix K**.





6. EM&A SITE INSPECTION

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, site inspections were carried out on 1, 6, 14, 20 and 26 June 2023 at the site portions list in **Table 6.1** below. One joint site inspection with IEC was carried out on 26 June 2023.

Table 6.1 Site Inspection Record

Date	Inspected Site Portion	Time
1 June 2023	Portion J	10:00 - 11:00
6 June 2023	Portion J	09:30 - 10:30
14 June 2023	Portion J	09:30 - 10:30
20 June 2023	Portion J	09:30 - 11:00
26 June 2023	Portion J	14:00 - 14:30

Minor deficiencies were observed during weekly site inspections. Key observations during the site inspections are summarized in **Table 6.2**.

Table 6.2 Site Observations

Date	Environmental Observations	Follow-up Status
1 June 2023	No major environmental deficiency was observed during site inspection.	N/A
6 June 2023	No major environmental deficiency was observed during site inspection.	N/A
14 June 2023	 Chemical containers should be stored with drip tray. (Pit 2) Rainwater in trench should be treated before discharge, and the discharge should meet the requirement specified in the discharge licence. (Pit D Roundabout) The Contractor was required to deploy sandbag barriers at the site boundary at Pit A to prevent surface runoff to public road. 	 Chemical container was removed. Rainwater in trench was treated before discharge. Sandbag barriers was erected at the site boundary to prevent muddy surface runoff.
20 June 2023	1. The Contractor should provide the tree protection zone in Pit Y2.	1. Tree protection zone was provided.
26 June 2023	 The Contractor should provide the drip tray to store the chemical container in Pit Y2. The Contractor should provide the tree protection zone and remove objects which placed on the top of soil and trees in Pit M. 	 Chemical container was removed. Tree protection zone was provided.

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 during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in **Appendix C**.

Site inspection proforma of the reporting period is provided in **Appendix L**.





7. FUTURE KEY ISSUES

Key works that will be anticipated in the next reporting period for the Project are shown in **Table 7.1**.

Table 7.1. Key works for the next reporting month

Location	Construction activities to be carried out in next reporting month
	Open trench method
Wan Po Road and TKO	Water main installation inside sleeve pipe
Area 137	 Trenchless method (sleeve pipe)
	Hydrostatic Pressure test
TKO Promenade (Stage 1	Open trench method
Landfill) & Po Yap Road	Water main installation inside sleeve pipe
Roundabout	Hydrostatic Pressure test
HK Velodrome	Open trench method
TIK Velodi olile	Water main installation inside sleeve pipe
Do Lam Boad South / Ling	Open trench method
Po Lam Road South / Ling Hong Road	Water main installation inside sleeve pipe
Holig Koau	 Trenchless method (sleeve pipe)
Tsui Lam Boad /	Open trench method
Tsui Lam Road / Abandoned Road	 Trenchless method (sleeve pipe)
Abandoned Road	Hydrostatic Pressure test

The major environmental impacts brought by the above construction works will include:

- Construction dust and noise generation of mainlaying of pipes, TBM break through, and excavation works;
- Waste generation from construction activities; and
- Impact on water quality from construction activities.

The key environmental mitigation measures for the Project in the coming reporting period associated with the above construction works will include:

- Dust suppression by regular wetting and water spraying for excavation works, mainlaying of pipes and TBM break through works;
- Reduction of noise from equipment and machinery on-site;
- Sorting and storage of general refuse and construction waste; and
- Treatment of wastewater with water treatment facilities before discharge.

The proactive environmental protection proforms for the next reporting month is listed in Appendix M.

Referring to EM&A Manual Section 4.1.2, the impact noise monitoring should be carried out at all the designated monitoring stations when there are project-related construction activities undertaken within a radius of 300m from the monitoring stations.

The tentative impact monitoring schedule for the next reporting month is attached in **Appendix N**.





8. CONCLUSION AND RECOMMENDATIONS

This is the 59th monthly Environmental Monitoring and Audit (EM&A) Report presenting the EM&A works undertaken during the period from 1 June to 30 June 2023 in accordance with the EM&A Manual and the requirement under EP-503/2015/A.

Impact monitoring for noise impact was scheduled in the reporting month for NSR4 – Creative Secondary School on 9, 15, 21 and 27 June 2023 as construction works were conducted within 300m to the noise sensitive received. No action and limit level exceedance for construction noise monitoring was recorded in the reporting period.

Landfill gas monitoring was carried out by the Registered Safety Officer of the Contractor at the excavation locations and within the consultation zones for 522 times. All the measured results were presented in **Appendix J** and were within the Action and Limit Levels.

No exceedance of the action and limit level for landfill gas monitoring was recorded during the reporting period.

Weekly environmental site inspections were conducted during the reporting month. Observations and Recommendation were made during site inspection, Contractor was reminded that sedimentation facilities shall be provided on site to remove silt particles from runoff before discharge and to meet the requirements of the TM standard under the WPCO.

According to the environmental site inspections performed in the reporting month, the contractor is reminded to pay attention on maintaining site tidiness, water treatment facilities, and proper materials storage.

No environmental complaint, notification of summons and prosecution was received in the reporting month.

The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.





Appendix A

Construction Programme

Part							1	Project: Mainlaying in Tseung			T.													
	ask	Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018		2019	2020		2021		2022		2023	20	24	2025
March Marc	PI	Dates	2495 days	Tue 7/11/17	Thu 5/9/24	Calendar Day			0%	Tue 7/11/17	NA	Q4 Q1	Q2 Q3 C	4 Q1 Q2	Q3 Q4 Q1	Q2 Q3	Q4 Q1 (Q2 Q3 Q4	Q1 Q2	2 Q3 Q4	Q1 Q2	Q3 Q4 C	01 Q2 Q3	Q4 Q1 Q2
Marche M								67 50 60ES±27				♦ 7/11												
								days,61,62,58																
1400 1400	5	tarting Date	0 days	Thu 16/11/17	Thu 16/11/17	Calendar Day		days																
	1	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	♦ 16/11												
	1	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									
Part	(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						
Marcolamente Marc	E	OT 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							♦ 18/5						
Marcian Marc	E	OT for CE No. 01	246 days	Wed 19/5/21	Wed 19/1/22	Calendar Day	7	9FF	0%	NA	NA								• 19/1					
Selection of the property of t	F	levised Completion Date	0 days	Wed 19/1/22	Wed 19/1/22	Calendar Day	8FF	11FS+365 days	0%	NA	NA								• 19/1					
Marie Mari	F	Planned Completion	0 days	Thu 5/9/24	Thu 5/9/24	Calendar Day	12FF		0%	NA	NA												* :	5/9
The content of the				Thu 19/1/23	Thu 19/1/23	Calendar Day	9FS+365 days		0%	NA	NA						-				♦ 19/1			
Note 1966 1967 1968 1969				V5 (3.8)				1055																
Marie Mari								1077					Bernard											
Manual Prime Pri																			ľ					
Manufacing Man	F	Preliminaries	1636 days	Tue 7/11/17	Sat 30/4/22	Calendar Day			100%	Tue 7/11/17	Sat 30/4/22													
Note the content of the Personal Pers		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	3												
Part		Subcontracting	1122 days	Thu 16/11/17	Fri 11/12/20	Calendar Day			100%	Thu 16/11/17	Fri 11/12/20						-							
Companies Comp		Site Establishment	220 days	Tue 2/1/18	Thu 9/8/18	Calendar Day			100%	Tue 2/1/18	Thu 9/8/18	-	-											
Part Presentation of Funding Part Part Presentation of Funding Part P		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	,		+			+	_						
Easy November Part Nov	ī	Jainlaying 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			-							-			
Part Date Cl Mode Cl Mode Cl Mode Cl Mode Cl Cl Cl Cl Cl Cl Cl C			0 days						100%	Mon 29/7/19	Mon 29/7/19				29/7					100				
Section Process Section Pr								104						♦ 22/1										
Page Light Service		(NS250 HDPE Pipe)					400	104																
Treachies Work (2012/20 No.2 Pipe 1- 18229 HOVE Pipe to Divining at Work Professor 14 days			330 days			· ·								"										
Final Connecticion of NSCO 10PE Pipe to Listing at War Fo Rood		Open Cut Excavation, Pipe Laying and Reinstatement at TKO Area 137	597 days	Sat 10/8/19	Sat 14/8/21	HK Working Da	У	761	100%	Sat 10/8/19	Sat 14/8/21							ľ						
Mainlying From Boundary of Taxung Kwan O Area 137 to TXO Fresh Water Service Reservoir (Perform) Open Cut Excavation, Pipe Laying and Reinstatement at Wan Po Road Ternohlass Work at Wan Po Road From Pick to Pick Ternohlass Work at Wan Po Road From Pick to Pick Open Cut Excavation, Pipe Laying and Reinstatement at TXO Landfill Stage 1 and TXO Ternohlass Work at Wan Po Road From Pick to Pick Open Cut Excavation, Pipe Laying and Reinstatement at TXO Landfill Stage 1 and TXO Open Cut Excavation, Pipe Laying and Reinstatement at TXO Landfill Stage 1 and TXO Open Cut Excavation, Pipe Laying and Reinstatement at TXO Landfill Stage 1 and TXO Open Cut Excavation, Pipe Laying and Reinstatement at TXO Landfill Stage 1 and TXO Open Cut Excavation, Pipe Laying and Reinstatement at TXO Landfill Stage 1 and TXO Open Cut Excavation, Pipe Laying and Reinstatement at TXO Landfill Stage 1 and TXO Open Cut Excavation, Pipe Laying and Reinstatement at TXO Landfill Stage 1 and TXO Open Cut Excavation, Pipe Laying and Reinstatement at TXO Landfill Stage 1 and TXO Open Cut Excavation, Pipe Laying and Reinstatement at TXO Landfill Stage 1 and TXO Open Cut Excavation, Pipe Laying and Reinstatement at TXO Landfill Stage 1 and TXO Open Cut Excavation, Pipe Laying and Reinstatement at TXO Landfill Stage 1 and TXO Open Cut Excavation, Pipe Laying and Reinstatement at TXO Landfill Stage 1 and TXO Open Cut Excavation, Pipe Laying and Reinstatement at TXO Landfill Stage 1 and TXO Open Cut Excavation, Pipe Laying and Reinstance at TXO Landfill Stage 1 and TXO Open Cut Excavation, Pipe Laying and Reinstatement at TXO Landfill Stage 1 and TXO Open Cut Excavation, Pipe Laying and Reinstatement at TXO Landfill Stage 1 and TXO Open Cut Excavation, Pipe Laying and Reinstatement at TXO Landfill Stage 1 and TXO Open Cut Excavation, Pipe Laying and Reinstatement at TXO Landfill Stage 1 and TXO Open Cut Excavation, Pipe Laying and Reinstatement at TXO Landfill Stage 1 and TXO Open Cut Excavation, Pipe Laying and Reinstatement at		Trenchless Works (DN1200 MS PIPE + NS250 HDPE PIPE) at TKO Area 137	1162 days	Tue 22/1/19	Thu 22/12/22	HK Working Da	У	784,762	83%	Tue 22/1/19	NA													
Reservoir (Perfort) Perform Pe		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	NA										H			
Gene Cut Excavation, Pipe Laying and Reinstatement at Wan Po Road 106 487 104 20/9/18 104 20			1866 days	Tue 7/11/17	Mon 26/2/24	HK Working Da	y		74%	Tue 7/11/17	NA												~	
Depart of Discavation, Pipe Laying and Reinstatement at TikO Landfill Stage Land TikO 1221 days			1506 days	Thu 30/8/18	Thu 28/9/23	HK Working Da	у		81%	Thu 30/8/18	NA		-									~	1	
South Water From Promende Water Mains Near Pung Loli Road (CHLFD0+00 - CHLA3+S1) 1020 days Wed 11/6/20 Trenchless Work from Por Tap Road Roundabout to KMB Depot (Pit Kto Pit L) (Pit Oto Pit P) Trenchless Work from Por Tap Road Roundabout to KMB Depot (Pit Kto Pit L) (Pit Oto Road Statis Pit Statis Pressure Test, Pipeline Cleaning, CCTV Inspection, Sterilization and Water Sampling Statis Pressure Test, Pipeline Cleaning and CCTV Inspection 1153 days Wed 12/5/21 Wed 24/3/21 Wed 24/3/21 Wed 24/3/21 Wed 24/3/21 Wed 24/3/21 Wed 24/3/21 Work Pipeline Cleaning, CCTV Inspection, Sterilization and Water Sampling Static Pressure Test, Pipeline Cleaning, CCTV Inspection, Sterilization and Water Sampling Static Pressure Piest Wed 24/3/21 Wed 24/3/21 Wed 24/3/21 Sterilization and Water Sampling Static Pressure, Pipeline Cleaning, CCTV Inspection, Sterilization and Water Sampling Static Pressure, Pipeline Cleaning, CCTV Inspection, Sterilization and Water Sampling Static Pressure, Pipeline Cleaning, CCTV Inspection, Sterilization and Water Sampling Static Pressure, Pipeline Cleaning, CCTV Inspection, Sterilization and Water Sampling Static Pressure, Pipeline Cleaning, CCTV Inspection, Sterilization and Water Sampling Static Pressure, Pipeline Cleaning, CCTV Inspection, Sterilization and Water Sampling Static Pressure, Pipeline Cleaning, CCTV Inspection, Sterilization and Water Sampling Statis Pressure, Pipeline Cleaning, CCTV Inspection, Sterilization and Water Sampling		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	-					_						•	
Water Mains Near Pump Lei Road (CH-FD0-000 - CH.A3-51) 102 days Wed 17/6/20 New 24/17/6/20 New 24/17		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	y		91%	Thu 23/8/18	NA		-					_						
Water Mains near Pung Lol Road and Po Yap Road (CH.FE0+001-CH.A3+58) 78 days Thu 20/8/20 81 11/3/33 11/3/3/33 11/3/3			1020 days	Wed 17/6/20	Thu 23/11/23	HK Working Da	v		60%	Wed 17/6/20	NA					-								
Trenchless Work from Po Yap Road Roundabout to KMB Depot (Pit Kt o Pit L) (Pit Oo 822 days Fit 28/2/20 Mon 5/12/22 HK Working Day 765 55% Fit 28/2/20 NA Pit P) (Pit P								765																
Pit Pic Trenchless Work from Po Yap Road Roundabout (Hong Kong Velodrome) 1251 day Tue 2/4/19 Mon 26/6/23 HK Working Day 765 80% Tue 2/4/19 NA																					,			
Water 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 V DN800 - CH.ADN1200 MS Pipe Static Pressure Test, Pipelline Cleaning, CCTV Inspection, sterilization and Water Sampling 133 Wed 24/3/21 NA Image: Not of the control of t		Pit P)																						
DN800 - 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 112 days Static Pressure Test 1112 days Wed 24/3/21 Mon 8/4/24 Calendar Day 18% Wed 24/3/21 NA 18% Wed 12/5/21 Sun 7/7/24 Calendar Day 10% Wed 12/5/21 NA 18% Wed 12/5/								765																
Sterilization and Water Sampling Static Pressure Test 1112 days Wed 24/3/21 Mon 8/4/24 Calendar Day 185 Wed 24/3/21 NA Pipeline Cleaning and CCTV Inspection 1153 days Wed 12/5/21 Sun 7/7/24 Calendar Day 186 Wed 12/5/21 NA Sterilization and Water Sampling NS250 HDPE Pipe Static Pressure, Pipeline Cleaning, CCTV Inspection, Sterilization and Water Sampling Handover Portion I and Portion H to WSD Region S63 days Tue 21/2/23 Thu 5/9/24 Calendar Day 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 Day Sterilization and Water Sampling HK Wed 24/3/21 NA Wed 24/3/21 NA		Water Mains from KMB Depot to TKO Fresh Water Preliminary Service Reservoir	1649 days	Tue 7/11/17	Mon 5/6/23	HK Working Da	У		80%	Tue 7/11/17	NA			1										
Static Pressure Test Pipeline Cleaning and CCTV Inspection 1153 days Wed 12/5/21 Sun 7/7/24 Calendar Day Cal			1232 days	Wed 24/3/21	Tue 6/8/24	Calendar Day			13%	Wed 24/3/21	NA						-							
Sterilization and Water Sampling NS25D HDPE Pipe Static Pressure, Pipeline Cleaning, CCTV Inspection, Sterilization and Water Sampling NS25D HDPE Pipe Static Pressure, Pipeline Cleaning, CCTV Inspection, Sterilization and GO days Fri 23/12/22 Mon 20/2/23 Calendar Day Water Sampling Handover Portion I and Portion H to WSD Region S63 days Tue 21/2/23 Thu 5/9/24 Calendar Day 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 Day 99% Tue 7/11/17 NA	4		1112 days	Wed 24/3/21	Mon 8/4/24	Calendar Day			18%	Wed 24/3/21	NA												7	
NS250 HDPE Pipe Static Pressure, Pipeline Cleaning, CCTV Inspection, Sterilization and Water Sampling NS250 HDPE Pipe Static Pressure, Pipeline Cleaning, CCTV Inspection, Sterilization and 60 days Fri 23/12/22 Mon 20/2/23 Calendar Day Water Sampling Handover Portion I and Portion H to WSD Region S63 days Tue 21/2/23 Thu 5/9/24 Calendar Day 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 Day 99% Tue 7/11/17 NA		Pipeline Cleaning and CCTV Inspection	1153 days	Wed 12/5/21	Sun 7/7/24	Calendar Day			10%	Wed 12/5/21	NA												7	1
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 Day		Sterilization and Water Sampling	30 days	Mon 8/7/24	Tue 6/8/24	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 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 Day 99% Tue 7/11/17 NA		NS250 HDPE Pipe Static Pressure, Pipeline Cleaning, CCTV Inspection, Sterilization and	60 days	Fri 23/12/22	Mon 20/2/23	Calendar Day	The second	S I S S S S S S S S S S S S S S S S S S	0%	NA	NA										-			
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 Day 99% Tue 7/11/17 NA	1	Nater Sampling				Calendar Day			0%	NA	NA										-			
137 (Portion J)			445 days	Tue //11/1/	Jat 11/5/19	THE VVOIKING DA			3370	140 //11/1/														

Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018	103 04	019 019	2020	02 03 04	2021	2022	2 03 04	2023 O1 O2	202 03 04 01	4 02 03 1	Q4 Q1 Q2
Dates	2495 days	Tue 7/11/17	Thu 5/9/24	Calendar Day			0%	Tue 7/11/17	NA	Q1 Q1 Q2	Q Q	Qi Qz Q	XI XI	45 45 41	V. 42 4						an Name (and Name)
anned Completion	0 days	Thu 5/9/24	Thu 5/9/24	Calendar Day	12FF		0%	NA	NA											•	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			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			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		763	51%	Fri 2/8/19	NA											0.00	
New Routing From Pit A to Pit D)	553 days	Thu 14/4/22	Mon 26/2/24	HK Working Day	/		0%	Thu 14/4/22	NA												
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												
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		10.1										
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										Desire		
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								N. I				
Static Pressure Test	1112 days	Wed 24/3/21	Mon 8/4/24	Calendar Day			18%	Wed 24/3/21	NA											7	
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	0%	NA	NA												
Pipeline Cleaning and CCTV Inspection	1153 days	Wed 12/5/21	Sun 7/7/24	Calendar Day			10%	Wed 12/5/21	NA												
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												
Handover Portion I and Portion H to WSD Region	563 days	Tue 21/2/23	Thu 5/9/24	Calendar Day			0%	NA	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

						-	Project: Mainlaying in Tseung		1														
ask Na	me	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018		2019 2019	2020		2021	1 22 1 2.	2022		2023	2024		2025
ev E	ates	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	Q3 Q4 Q1	Q2 Q3 Q	4 Q1 Q	Q3 Q4	Q1 Q2	Q3 Q4	Q1 Q2	Q3 Q4 Q1	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	♦ 7/11												
Co							days,61,62,58 4,5FS+730 days,6FS+1279																
Sta	rting Date	0 days	Thu 16/11/17		Calendar Day		days																
Ac	cess 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	♦ 16/11												
Ac	cess 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									
Со	mpletion 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						4	18/5						
EC	T for CE No. 23 Inclement Weather - In June 2018	0 days	Tue 18/5/21	Tue 18/5/21	HK Working Da	y 6	8	100%	Tue 18/5/21	Tue 18/5/21						4	18/5						
FC	T for CE No. 01	246 days	Wed 19/5/21	Wed 19/1/22	Calendar Day	7	9FF	0%	NA	NA								• 19/1					
		0 days	Wed 19/1/22	Wed 19/1/22	Calendar Day	8FF	11FS+365 days	0%	NA	NA								♦ 19/1					
Re							1113.303 days															♦ 5/9	
Pla	nned Completion	0 days	Thu 5/9/24	Thu 5/9/24	Calendar Day	12FF		0%	NA	NA										1.00			
De	fect Date	0 days	Thu 19/1/23	Thu 19/1/23	Calendar Day	9FS+365 days		0%	NA	NA										♦ 19/1			
Mair	laying In Tseung Kwan O	2495 days	Tue 7/11/17	Thu 5/9/24	Calendar Day		10FF	77%	Tue 7/11/17	NA													
Iss	ued 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		12/6											
			Thu 12/7/18	Thu 12/7/18	Calendar Day		68	100%	Thu 12/7/18	Thu 12/7/18		12/7											
	Issue CE No. 01 - Change in Pressure Rating of Watermain, Valves and Fittings from PN16 to PN25												4/12				1						
	Issue CE No. 08 - Change in Number of Fixed IP Address for Broadband Connection for Site Accommodation	0 days	Tue 4/12/18	Tue 4/12/18	Calendar Day				Tue 4/12/18														
	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										
	Issue CE No. 13 - Excavation of Inspection Pits for the Realignments	0 days	Wed 15/5/19	Wed 15/5/19	Calendar Day			100%	Wed 15/5/19	Wed 15/5/19			♦ 15.	15									
	Issue CE No. 26 - Change in Cathodic Protection System for Mild Steel Pipes	0 days	Fri 16/8/19	Fri 16/8/19	Calendar Day		85	100%	Fri 16/8/19	Fri 16/8/19				♦ 16/8							4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1		
	Issue CE No. 35 - Feasibility Study on the Alternative Alignment by Trenchless Method in	0 days	Tue 31/12/19	Tue 31/12/19	Calendar Day			100%	Tue 31/12/19	Tue 31/12/19				♦ 31	/12								
	the Wan Po Road J/O Lohas Park Road Issue CE No. 56 - Excavation of Inspection Pits for the Alternative Alignment (Batch No.		Fri 22/5/20	Fri 22/5/20	Calendar Day			100%	Fri 22/5/20	Fri 22/5/20					22/5								
	2)							100%	Tue 9/6/20	Tue 9/6/20					♦ 9/6								+
	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											0							
	Issue CE No. 74 - Reinstatement of existing carriageway along Wan Po Road using PMSMA10	0 days	Thu 13/8/20	Thu 13/8/20	Calendar Day			100%	Thu 13/8/20	Thu 13/8/20					♦ 13/8								
	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					* 21/	/8							
	3) Issue CE No. 72 - Temporary Reinstatement of Deteriorated Grasscrete Road by	0 days	Mon 31/8/20	Mon 31/8/20	Calendar Day			100%	Mon 31/8/20	Mon 31/8/20					* 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/	19							
	between Chainage FC12+20 and Chainage FC13+26 Issue CE No. 81 - Additional Noise Monitoring for the Realignment Works	0 days	Tue 22/9/20	Tue 22/9/20	Calendar Day			100%	Tue 22/9/20	Tue 22/9/20					* 2	22/9							
					Calendar Day			100%	Wed 23/9/20	Wed 23/9/20					• 2	23/9							
	Issue CE No. 78 - Excavation of Inspection Pits for Additional Connection Point to The Existing Water Supply system	0 days																		1 1			
	Issue CE No. 82 - Suspension of Site Works due to Coronavirus Disease	0 days	Wed 21/10/20	Wed 21/10/20	Calendar Day			100%	Wed 21/10/20	Wed 21/10/2	.0					21/10							
	Issue CE No. 85 - Affected Trees across the Natural Stream Course at Tsui Lam (Location	0 days	Wed 28/10/20	Wed 28/10/20	Calendar Day			100%	Wed 28/10/20	Wed 28/10/2	.0				•	28/10							
	A) Issue 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						• 19/12							
	Road Issue CE No. CE - Site Clearance of Affected Trees and Plants for Mainlaying works near		Fri 18/12/20	Fri 18/12/20	Calendar Day			100%	Fri 18/12/20	Fri 18/12/20						♦ 18/12	1						
	Po Hong Road and Ling Hong Road		Wed 20/1/21					100%		Wed 20/1/21						20/1							
	Issue CE No. 99 - Excavation of Inspection pit near Mau Wu Tsai Village at Po Lam Road South															* 29/1							
	Issue CE No. 101 - Uncharted Irrigation Pipe in TKO South Promenade Waterfront's Cycl Track at CH.FC6+64	e U days	Fri 29/1/21	Fri 29/1/21	Calendar Day				Fri 29/1/21														
	Issue CE No. 103 - Renewal of Excavation Permit	0 days	Wed 10/2/21	Wed 10/2/21	Calendar Day			100%	Wed 10/2/21	Wed 10/2/21						♦ 10/3							
	Issue CE No. 105 - Suspension of Works in Wan Po Road 1st Works Site due to Shortage	0 days	Tue 23/2/21	Tue 23/2/21	Calendar Day			100%	Tue 23/2/21	Tue 23/2/21						* 23.	2						
	of Backfilling Material Caused by COVID-19 Issue CE No. 104 - Works in Tsui Lam Section (Batch No.2) 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	72						
	Disruption to Supply of Construction Material Caused b COVID-19 Issue CE No. 106 - 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						
	Disruption to Supply of Construction Material Caused b COVID-19 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						
	Disruption to Supply of Construction Material Caused b COVID-19		Mon 8/3/21	Mon 8/3/21	Calendar Day			100%		Mon 8/3/21						♦ 8/	3						
	Issue CE No. 107 - Affected Trees near Mau Wu Tsai Village between CH.HA0+00 and Cl HA0+70		1																				
	Issue CE No. 110 - Inaccessible to Works Area Ch.HA2+10 due to Deteriorated Concrete Access	e 0 days	Thu 8/4/21	Thu 8/4/21	Calendar Day			100%	Thu 8/4/21	Thu 8/4/21						•	0/4						

																			,	
sk Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018	2019 2019		2020	2021	2022	20)23	2024 2024	20)25
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 Q	1 Q2 Q3 0	Q4 Q1 Q2	Q3 Q4 Q1	1 Q2 Q
Issue CE No. 113 - Special Cleaning of Workfronts from CH.A0+00 to CH.A13+70 at Wan	0 days	Fri 30/4/21	Fri 30/4/21	Calendar Day			100%	Fri 30/4/21	Fri 30/4/21					♦ 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					* 2	14/5					
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 unde C	E 0 days	Mon 31/5/21	Mon 31/5/21	Calendar Day			100%	Mon 31/5/21	Mon 31/5/21					* 3	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+5		Mon 31/5/21	Mon 31/5/21	Calendar Day			100%	Mon 31/5/21	Mon 31/5/21					• 3	31/5					
Issue CE No. 127 - Manual Excavation under Unexpectedly long and contonuous extent		Tue 12/10/21	Tue 12/10/21	Calendar Day			100%	Tue 12/10/21	Tue 12/10/21						♦ 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 Wa		Tue 26/10/21	Tue 26/10/21	Calendar Day			100%	Tue 26/10/21	Tue 26/10/21						26/10					
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						♦ 14/12					
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							2			1	
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					- 1 31	24/1	2				
TKOFWPSR	0 days		Wed 29/12/21						Wed 29/12/21						◆ 29/1	2				
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							♦ 31/1	2				
		Tue 18/1/22	Tue 18/1/22	Calendar Day		125FF		Tue 18/1/22							* 18.	1				
Issue CE No. 57 - Realignment of Water Main by Trenchless Method in SENTX Portion in TKO Area 137	1636 days		Sat 30/4/22	Calendar Day					Sat 30/4/22											
Preliminaries			Mon 24/9/18						Mon 24/9/18		-									
Submission and Permit Application		Tue 7/11/17		Calendar Day	2				Mon 11/12/17											
Submission of Safety Plan	35 days			-					Thu 21/12/17											
Submission of Site Management Plan and Trip Ticket	45 days	Tue 7/11/17		Calendar Day					Sun 17/12/17											
Submission of Key People	14 days			Calendar Day																
Submission of Subcontractor Management Plan	30 days	Tue 7/11/17		Calendar Day					Wed 6/12/17											
Submission of First Programme	7 days	Tue 7/11/17		Calendar Day				Tue 7/11/17	Mon 13/11/17											
Submission of Pipe Material (PN16)	54 days	Thu 1/2/18	Tue 27/3/18	Calendar Day		035517 days		Thu 1/2/18	Tue 27/3/18											
Approval of Pipe material submission (PN16)	137 days		Sat 11/8/18	Calendar Day		92SS+7 days		Wed 28/3/18 Wed 9/5/18												
Appointment of Environmental Team	10 days	Wed 9/5/18	Fri 18/5/18	Calendar Day		66			Thu 14/6/18											
Environmental Baseline Monitoring	17 days	Tue 29/5/18	Thu 14/6/18	Calendar Day					Thu 21/12/17											
Submission of Environmental Management Plan	45 days			Calendar Day		06														
Submission & Approval of CE01 Pipe Material PN25	75 days			Calendar Day	14,15	96			Mon 24/9/18											
Subcontracting	1122 days		Fri 11/12/20						Fri 11/12/20 Sat 17/3/18							10 10 10 10 10 10 10 10 10 10 10 10 10 1				
Submission and Approval	122 days	Thu 16/11/17		Calendar Day					Sat 1//5/18											
Submission of sub-contractor selection procedure	24 days	Thu 16/11/17		Calendar Day		72			Sat 20/1/18											
Approval of sub-contractor selection procedure	42 days	Sun 10/12/17		Calendar Day		87,82,83FS+10 days,86		Sun 21/1/18												
Submission of Sub-contractor Condition	14 days	Sun 21/1/18	Sat 3/2/18.	Calendar Day		74														
Approval of Sub-contractor Condition	42 days	Sun 4/2/18	Sat 17/3/18	Calendar Day		87,82,83FS+10 days,86		Sun 4/2/18												
Submission of Supplier Selection Procedure	75 days			Calendar Day		76			Mon 29/1/18											
Approval of Supplier Selection Procedure	42 days		Mon 12/3/18		/5	92			Mon 12/3/18					_						
Subcontractor Selection and Subcontracting	1115 days		Fri 11/12/20						Fri 11/12/20											
Traffic Consultant for Investigation Works	30 days	Thu 23/11/17		Calendar Day					Fri 22/12/17											
Consultancy: Landscape for Investigation works	30 days	Fri 5/1/18	Sat 3/2/18	Calendar Day	4	250		Fri 5/1/18	Sat 3/2/18											
Consultancy: Traffic consultant	55 days	Wed 21/2/18							Mon 16/4/18											
Environmental Team	9 days	Mon 16/4/18				65			Tue 24/4/18	<u>'</u>										
Temporary site office, hoarding & project sign board	75 days	Thu 22/3/18	Mon 4/6/18	Calendar Day		89FS+13 days			Mon 4/6/18											
Consultancy: Independent Checking Engineer	12 days		Fri 25/5/18		72FS+10 days,74FS+10 days			Mon 14/5/18		•										
Survey Services	23 days	Wed 26/9/18	Thu 18/10/18	Calendar Day			100%	Wed 26/9/18	Thu 18/10/18		•									
Task Summary	Inactiv	e Milestone	Du	uration-only	Start-only		aternal Milesto		Critical S	plit										
ng Programme No. 15 Split Project Summary	1 Invade	e Summary	M	anual Summary Rollup	Finish-only	7 D	eadline		Progress											

						Project: Mainlaying in Tseung	g Kwan O		. 2.								
Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2019 2018 2019	2020	2021	20	22	2023	2024	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 Q	2 Q3 Q4 Q1 Q2	Q3 Q4 Q1 Q	Q2 Q3 Q4 Q	01 Q2 Q3 Q	24 Q1 Q2 Q3	Q4 Q1 Q2 Q3	Q4 Q1 C
Submitted the submitted state of the submitte		Thu 6/9/18	Wed 17/10/18	Calendar Day	72.74		100%	Thu 6/9/18	Wed 17/10/18	8							
cultivos principals and a second principals and a second principal a								Sun 18/3/18	Fri 11/12/20								
Miscendificads		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					_			
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	♦ 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								
Preparation of CE01 Purchase Order			Sun 30/12/18			98			Sun 30/12/18								
1st Batch of CE01 Material Delivery	90 days	Tue 2/10/18				50											
1st Batch of CE01 Material Delivery on site	1 day	Tue 22/1/19	Tue 22/1/19	Calendar Day					Tue 22/1/19								
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	D							
Mainlaying in Tseung Kwan O Area 137 (Portion H)	1260 days	Tue 11/12/18	Wed 15/3/23	HK Working Da	ау		92%	Tue 11/12/18	NA						7		
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		♦ 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	♦ 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				HK Working Da	av	761	100%	Sat 10/8/19	Sat 14/8/21		Ç		-				
		Sat 10/8/19	Wed 30/9/20					Sat 10/8/19	Wed 30/9/20		-	-					
DN1200 MS PIPE + NS250 HDPE PIPE - Open Cut	341 days				1				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	Tue 31/3/20	HK Working Da	ay			Mon 10/2/20									
CH.CTO+00 - CH.0+51 DN1200 MS Pipe OC	74 days	Thu 2/1/20	Tue 31/3/20	HK Working Da	ay		100%	Thu 2/1/20	Tue 31/3/20								
CH.CAO+00 - CH.4+00 DN1200 MS Pipe OC	192 days	Sat 10/8/19	Tue 31/3/20	HK Working Da	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 Hydrant	56 days	Tue 28/7/20	Wed 30/9/20	HK Working Da	ау		100%	Tue 28/7/20	Wed 30/9/20								
CH.KT2+23 - CH.2+80 NS250 HDPE Pipe OC	29 days	Sat 20/6/20	Sat 25/7/20	HK Working Da	ay		100%	Sat 20/6/20	Sat 25/7/20							1000	
CH.KT1+51 - CH.2+23 NS250 HDPE Pipe OC	31 days	Sat 16/5/20	Sat 20/6/20	HK Working Da	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 Da	ay		100%	Tue 10/3/20	Tue 31/3/20		•						
	50 days	Sun 2/2/20	Tue 31/3/20	HK Working Da	da v		100%	Sun 2/2/20	Tue 31/3/20								
CH.KT0+00 - CH.0+51 NS250 HDPE Pipe OC	Jo days				•				Tue 31/3/20								
	4 40 1			HK Working Da	ay		100%	111d 10/10/19	Tue 31/3/20								
CH.KA0+00 - CH.4+00 NS250 HDPE Pipe OC	143 days	Thu 10/10/19	100						! . ! . !					1 1 1			
CH.KA0+00 - CH.4+00 NS250 HDPE Pipe OC Construction of Chambers	143 days 385 days		Sat 14/8/21	HK Working Da	lay				Sat 14/8/21								
			100					Wed 29/4/20 Tue 5/5/20	Sat 14/8/21 Wed 15/7/20		_		*				
Construction of Chambers Combined DAV & IT Chamber for DN1200 MS pipe at CH.CT2+47 Combined Washout Pump Pit for DN1200 MS pipe and NS250 HDPE pipe at	385 days	Wed 29/4/20	Sat 14/8/21 Wed 15/7/20		Day		100%						V				
Construction of Chambers Combined DAV & IT Chamber for DN1200 MS pipe at CH.CT2+47	385 days 60 days	Wed 29/4/20 Tue 5/5/20	Wed 15/7/20 Wed 26/8/20	HK Working Da	Day Day		100%	Tue 5/5/20 Wed 3/6/20	Wed 15/7/20								
Construction of Chambers Combined DAV & IT Chamber for DN1200 MS pipe at CH.CT2+47 Combined Washout Pump Pit for DN1200 MS pipe and NS250 HDPE pipe at CH.CT2+43	385 days 60 days 71 days	Wed 29/4/20 Tue 5/5/20 Wed 3/6/20 Wed 29/4/20	Wed 15/7/20 Wed 26/8/20 Sat 14/8/21	HK Working Da	oay Oay	784,762	100% 100% 100%	Tue 5/5/20 Wed 3/6/20	Wed 15/7/20 Wed 26/8/20 Sat 14/8/21								
Construction of Chambers Combined DAV & IT Chamber for DN1200 MS pipe at CH.CT2+47 Combined Washout Pump Pit for DN1200 MS pipe and NS250 HDPE pipe at CH.CT2+43 DN900 Valve Chamber with by-pass pipes at CH.CA4+24	385 days 60 days 71 days 385 days 1162 days	Wed 29/4/20 Tue 5/5/20 Wed 3/6/20 Wed 29/4/20	Sat 14/8/21 Wed 15/7/20 Wed 26/8/20 Sat 14/8/21 Thu 22/12/22	HK Working Da HK Working Da HK Working Da	olay Olay Olay	784,762	100% 100% 100% 83%	Tue 5/5/20 Wed 3/6/20 Wed 29/4/20 Tue 22/1/19	Wed 15/7/20 Wed 26/8/20 Sat 14/8/21		-				•		
Construction of Chambers Combined DAV & IT Chamber for DN1200 MS pipe at CH.CT2+47 Combined Washout Pump Pit for DN1200 MS pipe and NS250 HDPE pipe at CH.CT2+43 DN900 Valve Chamber with by-pass pipes at CH.CA4+24 Trenchless Works (DN1200 MS PIPE + NS250 HDPE PIPE) at TKO Area 137 Issue CE No. 07 - Water Supply to Tseung Kwan O Desalination Plant at Portion 'H'	385 days 60 days 71 days 385 days 1162 days 0 days	Wed 29/4/20 Tue 5/5/20 Wed 3/6/20 Wed 29/4/20 Tue 22/1/19	Sat 14/8/21 Wed 15/7/20 Wed 26/8/20 Sat 14/8/21 Thu 22/12/22 Tue 22/1/19	HK Working Da HK Working Da HK Working Da	olay Olay Olay	784,762	100% 100% 100% 83% 100%	Tue 5/5/20 Wed 3/6/20 Wed 29/4/20 Tue 22/1/19 Tue 22/1/19	Wed 15/7/20 Wed 26/8/20 Sat 14/8/21 NA	\$ 22/I	-				-		
Construction of Chambers Combined DAV & IT Chamber for DN1200 MS pipe at CH.CT2+47 Combined Washout Pump Pit for DN1200 MS pipe and NS250 HDPE pipe at CH.CT2+43 DN900 Valve Chamber with by-pass pipes at CH.CA4+24 Trenchless Works (DN1200 MS PIPE + NS250 HDPE PIPE) at TKO Area 137 Issue CE No. 07 - Water Supply to Tseung Kwan O Desalination Plant at Portion 'H' Issue CE No. 17 - Realignment of Water Main by Trenchless Method in TKO Area 137	385 days 60 days 71 days 385 days 1162 days 0 days 7 0 days	Wed 29/4/20 Tue 5/5/20 Wed 3/6/20 Wed 29/4/20 Tue 22/1/19 Tue 22/1/19 Wed 1/1/20	Wed 15/7/20 Wed 26/8/20 Sat 14/8/21 Thu 22/12/22 Tue 22/1/19 Wed 1/1/20	HK Working Da HK Working Da HK Working Da HK Working D	oay Oay Oay	784,762	100% 100% 100% 83% 100%	Tue 5/5/20 Wed 3/6/20 Wed 29/4/20 Tue 22/1/19 Tue 22/1/19	Wed 15/7/20 Wed 26/8/20 Sat 14/8/21 NA Tue 22/1/19	\$\frac{1}{2}\ldots	-		♦ 18/5		•		
Combined DAV & IT Chamber for DN1200 MS pipe at CH.CT2+47 Combined Washout Pump Pit for DN1200 MS pipe and NS250 HDPE pipe at CH.CT2+43 DN900 Valve Chamber with by-pass pipes at CH.CA4+24 Trenchless Works (DN1200 MS PIPE + NS250 HDPE PIPE) at TKO Area 137 Issue CE No. 07 - Water Supply to Tseung Kwan O Desalination Plant at Portion 'H' Issue CE No. 17 - Realignment of Water Main by Trenchless Method in TKO Area 137 Issue CE No. 118 - Non-destructive Void detection survey in Tseung Kwan O Area 13: between 137 Pit A and 137 Pit B	385 days 60 days 71 days 385 days 1162 days 0 days 7 0 days 7 0 days	Wed 29/4/20 Tue 5/5/20 Wed 3/6/20 Wed 29/4/20 Tue 22/1/19 Tue 22/1/19 Wed 1/1/20 Tue 18/5/21	Sat 14/8/21 Wed 15/7/20 Wed 26/8/20 Sat 14/8/21 Thu 22/12/22 Tue 22/1/19 Wed 1/1/20 Tue 18/5/21	HK Working Da HK Working Da HK Working Da Calendar Day Calendar Day Calendar Day	oay oay oay		100% 100% 100% 83% 100% 100%	Tue 5/5/20 Wed 3/6/20 Wed 29/4/20 Tue 22/1/19 Tue 22/1/19 Wed 1/1/20 Tue 18/5/21	Wed 15/7/20 Wed 26/8/20 Sat 14/8/21 NA Tue 22/1/19 Wed 1/1/20 Tue 18/5/21	* 22/1	-			18/1			
Combined DAV & IT Chamber for DN1200 MS pipe at CH.CT2+47 Combined Washout Pump Pit for DN1200 MS pipe and NS250 HDPE pipe at CH.CT2+43 DN900 Valve Chamber with by-pass pipes at CH.CA4+24 Trenchless Works (DN1200 MS PIPE + NS250 HDPE PIPE) at TKO Area 137 Issue CE No. 07 - Water Supply to Tseung Kwan O Desalination Plant at Portion 'H' Issue CE No. 17 - Realignment of Water Main by Trenchless Method in TKO Area 137 Issue CE No. 118 - Non-destructive Void detection survey in Tseung Kwan O Area 137	385 days 60 days 71 days 385 days 1162 days 0 days 7 0 days 7 0 days	Wed 29/4/20 Tue 5/5/20 Wed 3/6/20 Wed 29/4/20 Tue 22/1/19 Tue 22/1/19 Wed 1/1/20	Wed 15/7/20 Wed 26/8/20 Sat 14/8/21 Thu 22/12/22 Tue 22/1/19 Wed 1/1/20 Tue 18/5/21 Tue 18/1/22	HK Working Da HK Working Da HK Working D Calendar Day Calendar Day Calendar Day Calendar Day	Day Day Day 55FF	784,762 129	100% 100% 100% 83% 100% 100% 100%	Tue 5/5/20 Wed 3/6/20 Wed 29/4/20 Tue 22/1/19 Tue 22/1/19 Wed 1/1/20 Tue 18/5/21 Tue 18/1/22	Wed 15/7/20 Wed 26/8/20 Sat 14/8/21 NA Tue 22/1/19 Wed 1/1/20	• 22J1	-			18/1			

							Project: Mainlaying in Tseung																		
Name		Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018		2019		2020		2021		2022		2023		2024 2024	2	2025
WSD instructed	l 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	Q1 Q	2 Q3 Q 3/4	4 Q1 Q	Q Q3 Q	Q1 Q2	Q3 Q4	Q1 Q2	Q3 Q4	Q1 Q2 C	23 Q4 C	Q1 Q
WSD instructed			Mon 18/5/20	Mon 29/6/20	Calendar Day	127	129		Mon 18/5/20																
		43 days																							
Issue LOA		1 day	Thu 3/9/20	Thu 3/9/20		128,125	135		Thu 3/9/20	Thu 3/9/20														4	
Trial Pit Excava	tion for Trenchless Works at TKO Area 137	156 days	Mon 2/9/19	Wed 11/3/20	HK Working Da	ay			Mon 2/9/19	Wed 11/3/20															
Pit 137A		35 days	Mon 2/9/19	Tue 15/10/19	HK Working Da	У		100%	Mon 2/9/19	Tue 15/10/19															
Pit 137B		57 days	Mon 28/10/19	Sat 4/1/20	HK Working Da	У		100%	Mon 28/10/19	Sat 4/1/20											1		1		
Pit 137C		14 days	Tue 25/2/20	Wed 11/3/20	HK Working Da	У		100%	Tue 25/2/20	Wed 11/3/20					•										
Construction o	f jacking / Receiving Pits	106 days	Mon 9/11/20	Thu 18/3/21	HK Working Da	ау		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	0					1									
Receiving Pit	t 137A (Renopipe)	58 days	Mon 16/11/20	Mon 25/1/21	HK Working Da	y 135	141FF-30 days	100%	Mon 16/11/20	Mon 25/1/21						1									
Jacking Pit 1	37B (Renopipe)	59 days	Thu 12/11/20	Fri 22/1/21	HK Working Da	y 135	140	100%	Thu 12/11/20	Fri 22/1/21															
	t 137C (Renopipe)	49 days	Mon 18/1/21	Thu 18/3/21	HK Working Da	y 135	152	100%	Mon 18/1/21	Thu 18/3/21															
	ing From Pit 137B to Pit 137A	410 days	Fri 22/1/21	Wed 15/6/22			170	79%	Fri 22/1/21	NA							-			9					
			Fri 22/1/21	Sat 27/2/21	HK Working Da		141		Fri 22/1/21	Sat 27/2/21															
	nt at Pit 137B	29 days																							
(CH.CC0+10	steel Sleeve Pipe for both DN1200 & NS250 (Pit 137B - Pit 137A) to CH.CC.1+24) in Soil mixed with rubbish (114m; 3m/day)	42 days	Mon 1/3/21	Thu 22/4/21		y 140,136FF-30 days	142		Mon 1/3/21	Thu 22/4/21															
	d Remove setup at Pit 137A & Pit 137B	31 days	Fri 23/4/21	Mon 31/5/21	HK Working Da	ay 141	143		Fri 23/4/21	Mon 31/5/21															
Setup for Pi	pe Laying inside jacking Pits 137B to Pit 137A	62 days	Wed 12/1/22	Mon 28/3/22	HK Working Da	ny 154,142	145		Wed 12/1/22															1	1
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	ay 145	146	100%	Tue 29/3/22	Thu 14/4/22			100						•						
NS250 HDP	E Pipe Laying inside jacking pipe (114m) (8m per day)	0 days	Fri 28/1/22	Fri 28/1/22	HK Working Da	ay 143	144	100%	Fri 28/1/22	Fri 28/1/22									28/1					1	
Formwork 8	& Setup for Grouting the gap between pipe and Sleeve	3 days	Tue 19/4/22	Thu 21/4/22	HK Working Da	ау 144	147	0%	NA	NA					-				1						
Grouting W	orks (20 meter/day)	6 days	Fri 22/4/22	Thu 28/4/22	HK Working Da	ау 146	148	0%	NA	NA									1						
Pipe Laying	(HB, BVB, Short Pipe), Thrust Block & backfilling inside Pit 137A	24 days	Fri 29/4/22	Sat 28/5/22	HK Working Da	ау 147	149	0%	NA	NA															
	5 and Extract Sheetpile at Pit 137A	2 days	Mon 30/5/22	Tue 31/5/22	HK Working Da	ay 148	150	0%	NA	NA															
	(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 Da	ay 149		0%	NA	NA										U					
KC1+38	king From Pit 137B to Pit 137C	578 days	Tue 12/1/21	Thu 22/12/22	HK Working D	ay		74%	Tue 12/1/21	NA							-				•				
	ablishment at Pit 137B	39 days	Fri 19/3/21	Sat 8/5/21	HK Working Da		153	100%	Fri 19/3/21	Sat 8/5/21										1					
			Sun 9/5/21	Sat 30/10/21	HK Working Da		154		Sun 9/5/21	Sat 30/10/21															
(CH.CB0+00	Steel Sleeve Pipe for both DN1200 & NS250 (Pit 137C - Pit 137B)) to CH.CB.2+46) in Soil mixed rubbish (246m; 1.5m/day) include 49 day																								
0,	emove setup at Pit 137C and Pit 137B	41 days		Fri 17/12/21	HK Working Da		155,143		Mon 1/11/21																
Setup for P	ipe Laying inside jacking Pit 137B to Pit 137C	95 days	Tue 12/1/21	Tue 19/4/22	HK Working Da	ay 154	157		Tue 12/1/21									,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	"						
DN1200 MS	5 Pipe Laying inside jacking pipe (246m) (3 days per 8m)	93 days	Wed 20/4/22	Wed 10/8/22	HK Working Da	ay 157	158	75%	Wed 20/4/22																
NS250 HDP	E Pipe Laying inside jacking pipe (246m) (8m per day)	4 days	Sat 22/1/22	Thu 27/1/22	HK Working Da	ay 155	156	100%	Sat 22/1/22	Thu 27/1/22									1						
Formwork	& Setup for Grouting the gap between pipe and Sleeve	3 days	Thu 11/8/22	Sat 13/8/22	HK Working Da	ay 156	159	0%	NA	NA										I					
Grouting W	/orks (20 meter/day)	13 days	Mon 15/8/22	Mon 29/8/22	HK Working Da	ay 158	160	0%	NA	NA									1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Construction	on of Combined Inspection and Washout Chamber (Type III) at Pit 137C	60 days	Tue 30/8/22	Thu 10/11/22	HK Working D	ay 159	162,161	0%	NA	NA															
Pipe Conne	ection Inside Pit 137C	6 days	Fri 11/11/22	Thu 17/11/22	HK Working D	ay 160		0%	NA	NA										1					
Pipe Laying	g (HB, BVB, Short Pipe), Thrust Block & backfilling inside Pit 137C	24 days	Fri 11/11/22	Thu 8/12/22	HK Working D	ay 160	163	0%	NA	NA															
	S and Remove ELS and Extract Sheetpile at Pit 137C	12 days	Fri 9/12/22	Thu 22/12/22	HK Working D	ay 162		0%	NA	NA															
	n of NS250 HDPE Pipe to Existing at Wan Po Road	14 days	Tue 28/2/23		HK Working D			0%	NA	NA															
	Boundary of Tseung Kwan O Area 137 to TKO Fresh Water Service	1866 days	1		HK Working D			359002	Tue 7/11/17														-		
Reservoir (Portion	1)								Thu 30/8/18			-													
	ation, Pipe Laying and Reinstatement at Wan Po Road		Thu 30/8/18		HK Working D		762																	10 10 10 10 10 10 10 10 10 10 10 10 10 1	
	.A0+00 to CH.A3+62 (Pit 1)	1321 days			HK Working D		762		Mon 10/9/18			· ·					20/10								
Issue CE N CH.A1+14	o. 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						•	> 30/10								
	Task Summary	Inactiv	e Milestone	n	uration-only	Start-only	E F	External Milestor	ne 🌼	Critical	Split										1				
Programme No. 15	Split Project Summary		e Summary		anual Summary Rollup	Finish-only		Deadline	+	Progress															

						Project: Mainlaying in Tse			-								*			
Task Name		Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018		2019 2019	2020	2021		2022	20		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 C		Q1 Q2 Q3		Q3 Q4 Q1 Ф 1		4 Q1 Q2	Q3 Q4 (Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q	4 Q1 Q2 Q3
	Road	45 days	Thu 16/6/22	Mon 8/8/22	HK Working Day 139		0%	NA	NA											
	CH.A0+00 - CH.A0+14 OC								Tue 26/11/19				-							
	CH.A0+14 - CH.A0+50 OC	156 days	Thu 23/5/19	Tue 26/11/19																
	CH.A0+50 - CH.A1+50 OC	42 days	Mon 10/9/18	Wed 31/10/18	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	Fri 4/1/19											
	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						2 2					
	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											
		218 days	Fri 5/3/21	Fri 26/11/21	HK Working Day 179	195		Fri 5/3/21	Fri 26/11/21		-									
	CH.A2+94 - CH.A3+34.5 OC (Excluding Road reinstatement					182	0%		NA NA				-							
	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			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											
	Road reinstatement CH.A2+94 - CH.3+60	14 days	Fri 10/2/23	Sat 25/2/23	HK Working Day 182		0%	NA	NA											
	Trenchless Works (Pit 1 to Pit 2)	811 days	Mon 4/1/21	Thu 28/9/23	HK Working Day	762	61%	Mon 4/1/21	NA											
	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											
						132			Tue 18/5/21						♦ 18/5					
	Issue EWN no. 405	0 days	Tue 18/5/21	Tue 18/5/21	HK Working Day										10,5					
	Subletting and Re-Design for Pit 1 & Pit 2 (Changing from conventional sheet pilir method to pipe pilling method	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											
	Tendering, Subletting and Award for Constructing Pit 1 & Pit 2 (Pipe Pilling Metho	od) 57 days	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	Wed 20/10/22	1 Tue 3/5/22	HK Working Day		94%	Wed 20/10/2	1 NA							7				
	Renopipe Release the working area for Luen Hing at Pit $f 1$	0 days	Sat 27/11/21	Sat 27/11/21	HK Working Day 180	196	100%	Sat 27/11/21	Sat 27/11/21						•	27/11				
	Set up and Driving Pipe Piles and Grouting for Pit 1	50 days	Sat 27/11/21	Thu 27/1/22	HK Working Day 195,193	197	100%	Sat 27/11/21	Thu 27/1/22							-				
	Excavation and ELS installation for Pit 1	48 days	Thu 3/3/22	Tue 3/5/22	HK Working Day 196	208,181	70%	Thu 3/3/22	NA											
	Renopipe Release the working area for Luen Hing TTA Implement at Pit 2	9 days	Wed 20/10/21	l Fri 29/10/21	HK Working Day 193	199	100%	Wed 20/10/21	1 Fri 29/10/21						1					
	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											
			Wed 4/5/22	Thu 28/9/23	HK Working Day			Wed 4/5/22								φ.				
	TMB Pipe Jacking Pit 1- Pit 2	420 days																		
	Additional GI Works beside Pit 2	12 days	Wed 4/5/22	Wed 18/5/22		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	Fri 21/10/22	HK Working Day 205	207	0%	NA	NA			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					1			
	Pipe Laying inside Sleeve Pipe (8m pipe, 3 days per Joint)	51 days	Sat 22/10/22	Tue 20/12/22	HK Working Day 206	208	0%	NA	NA											
	Formwork & Setup for Grouting the Gap between Pipe and Sleeve	3 days	Wed 21/12/2	2 Fri 23/12/22	HK Working Day 207,197	209	0%	NA	NA								1			
	Grouting Works (30m/day)	5 days	Sat 24/12/22	Sat 31/12/22	HK Working Day 208	210,182	0%	NA	NA								1			
	Construction of Combined Inspection and Washout Chamber Type I at Pit 2	45 days	Tue 3/1/23		HK Working Day 209	217,218,220	0%	NA	NA											
	Construction of Compined Inspection and Washout Chamber Type Lat Pit 2																		1 1	

ask Nam	ie e	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2019 2024 2024 2028 2019 2020 2021 2022 2023 2024 2025 2024 2026 2026 2026 2027
	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 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	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				HK Working Day	233		Thu 30/8/18		
	CH.A6+70 - CH.A7+12 OC	111 days	Thu 30/8/18	Sat 12/1/19						
	Open Cut CH.A7+12 to CH.A13+79.5	1323 days			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	21
	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 18/10/22	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
	CH.A8+63 - CH.A9+37 OC	100 days	Mon 1/8/22	Mon 28/11/2	2 HK Working Day 236,238,237,239		0%	NA	NA	
			Thu 3/3/22		HK Working Day		60%	Thu 3/3/22		
	CH.A9+37 - CH.A10+18 OC	81 days			*					
	CH.A10+18 - CH.A11+51 OC	340 days	Tue 5/1/21		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				Fri 23/7/21	
	CH.A12+12 - 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	Thu 22/12/22	HK Working Day 280	247,293	0%	NA	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		56%	Tue 7/11/17	NA	
	Trial Pit Excavation for Pit 1 to Pit 20	462 days		Tue 10/9/19				Tue 20/2/18		9
	5.1990; 544. HUU 44. 197. 19					763		Fri 2/8/19	NA NA	
	Trenchless Works (Pit A to Pit D)		Fri 2/8/19		HK Working Day	703				A 2/8
	Issue CE No. 27 - Underground Utilities Detection Survey for Working Pit D (CH. A22+75)	0 days	Fri 2/8/19	Fri 2/8/19	Calendar Day		100%	Fri 2/8/19	Fri 2/8/19	◆ 2/8
_	Task	Inact	ive Milestone	D	aration-only Start-only	E E	External Milesto	one 🌼	Critical S	al Split
rc	ogramme No. 15 Split Project Summary		rive Summary	M	anual Summary Rollup Finish-only		Deadline		Progress	as and a second

m 1 11						Project: Mainlaying in Tseung	5 IXWIGI O										
ask Name		Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018 2	019 019 2020		2021	202	22 2023	2024 2024	2025
	Issue CE No. 21 - Temporary Diversion of Uncharted Underground Utilities near	0 days	Thu 8/8/19	Thu 8/8/19	Calendar Day		100%	Thu 8/8/19	Thu 8/8/19	Q4 Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4 Q1	Q2 Q3 Q4	Q1 Q2 Q	23 Q4 Q1	1 Q2 Q3 Q4 Q1 Q2 Q	Q4 Q1 Q2 Q3	Q4 Q1 Q2
	Wan O Road at CH. A16+00 (Pit B)	0 days	Thu 17/10/19	Thu 17/10/19	Calendar Day		100%	Thu 17/10/19	Thu 17/10/19		♦ 17/10						
	Issue CE No. 29 - Tree Transplant Works near CHA13+70								Mon 31/8/20			♦ 31/8	3				
	lssue CE No. 32 - Additional grouting Treatment works at Pit B in Wan Po Road nea Wan O Road		Mon 31/8/20	Mon 31/8/20	Calendar Day							V 5170	♦ 18/	15			
	Issue CE No. 118 - Non-destructive Void Detection Survey in TKO Area 137 betwee 137Pit A and 137Pit B	n 0 days	Tue 18/5/21	Tue 18/5/21	Calendar Day		100%	Tue 18/5/21	Tue 18/5/21								
	Issue CE No. 123 - Void Detection Survey in Wan Po Road between Pit A to Pit C	0 days	Fri 30/7/21	Fri 30/7/21	Calendar Day		100%	Fri 30/7/21	Fri 30/7/21				•	30/7			
	Expected CE No. 52 - Relocation of Working pits for Trenchless Works in Wan Po	0 days	Thu 31/3/22	Thu 31/3/22	Calendar Day	259	0%	NA	NA						♦ 31/3		
	Road (Pit B to Pit D) Expected CE No. 58 - 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						♦ 31/3		
	Road (Pit A to Pit B) Construction of Jacking / Receiving Pit A, B & C	737 days	Mon 12/8/19	Sun 6/2/22	HK Working Day		100%	Mon 12/8/19	Sun 6/2/22								
	Removal of Existing 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 Pit A with 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								
		664 days	Mon 12/8/19	Fri 5/11/21	HK Working Day	299	100%	Mon 12/8/19	Fri 5/11/21								
	Jacking / Receiving Pit B with additional ground grouting works								Thu 26/11/20								
	Receiving Pit C with additional ground grouting works	295 days	Fri 29/11/19	Thu 26/11/20													
	Construction of Jacking pit D	372 days	Wed 12/8/20	Thu 11/11/21					Thu 11/11/21								
	TTA submission and Approval , Suspension of Parking Meters and TTA Implement for Jacking Pit D	nt 112 days	Wed 12/8/20	Tue 1/12/20	Calendar Day	267		Wed 12/8/20									
	Inspection Pits & GI Works for Jacking Pit D	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								
	Design Submission with ICE Certificate for Jacking Pit D	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 of Design of Jacking Pit D	8 days	Thu 18/2/21	Fri 26/2/21	HK Working Day 268	271	100%	Thu 18/2/21	Fri 26/2/21				1				
	Approval Existing 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				* 26/3				
	Mobilization and 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								
		104 days	Sat 10/7/21	Thu 11/11/21		303	100%	Sat 10/7/21	Thu 11/11/21								
	Construction of Jacking Pit D at Car Park			4.2			0%	Thu 14/4/22									
	New Routing From Pit A to Pit D)	553 days	Thu 14/4/22		HK Working Day												
	Verbal Instructed to Change Pit A to Pit D by Trenchless Method to Open Cut Method & Handshield	1 day	Thu 14/4/22	Thu 14/4/22	HK Working Day	275	100%	Thu 14/4/22	Thu 14/4/22								
	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 A1	3 days	Sat 14/5/22	Tue 17/5/22	HK Working Day		100%	Sat 14/5/22	Tue 17/5/22								
	Remove Central 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			5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8					
	Trial Pit Excavation at Pit WPR	10 days	Sat 2/7/22	Wed 13/7/22	HK Working Day 275	287	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 A1 towward KLN (124m)	124 days	Tue 17/5/22	Thu 13/10/22	HK Working Day	281,248	0%	Tue 17/5/22	NA								
		60 days	Fri 14/10/22		HK Working Day 280	282	0%	NA	NA								
	Pipe Laying (OC) from WPR (N/B)(the 1st Lane to the 3rd lane) (30m)				HK Working Day 281		0%	NA	NA								
	Pipe Laying (OC) crossing WPR Junction with Wan O Road to Central Divider (73m)	90 days	Fri 23/12/22	Tue 18/4/23													
	Pipe Laying (OC) along Central Divider to Pit WPR (340m)	340 days	Fri 20/5/22		HK Working Day	295,287	0%	Fri 20/5/22	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								
	Pipe Laying (OC) from Pit SKR to Pit D (Remaining 110m)	110 days	Thu 14/7/22	Tue 22/11/22	HK Working Day 279	297	0%	NA	NA								
	Construction of Pit A1	90 days	Sat 2/7/22	Tue 18/10/22	HK Working Day 275	289	0%	NA	NA								
	Construction of Pit WPR	90 days	Thu 13/7/23	Sat 28/10/23	HK Working Day 278,283		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								
	Headshield Tunneling 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								
	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								
		40 days	Thu 18/5/23		Calendar Day 289	293,294	0%	NA	NA								
	MS Pipe Laying in Segment from Pit A to Pit A1					295,296	0%	NA	NA								
	MS Pipe Laying in Segment from Pit SKR to Pit WPR	30 days			3 Calendar Day 290	293,230									-		
	Pipe Connection works & Construction Special Combined Insepction and Washout Chamber at Pit A	60 days	Tue 27/6/23	Tue 5/9/23	HK Working Day 291,248		0%	NA	NA								
	Pipe Connection works at Pit A1	12 days	Tue 27/6/23	Tue 11/7/23	HK Working Day 291		0%	NA	NA								

							Project: Mainlaying in Tse													
Name		Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2019	2019	2020	202		2022	2023	2024		2025
		co 4	Tue 12/12/22	Mon 36/2/24	HK Working D	202 283			NA	NA	Q4 Q1 Q2 Q3	Q4 Q1 Q	2 Q3 Q4 Q1 Q	Q2 Q3 Q4 Q1	Q2 Q3 Q4	Q1 Q2 Q3	Q4 Q1 Q2	Q3 Q4 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	Tue 12/12/23	Mon 26/2/24	HK Working Day	292			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		New Years		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									A STATE OF THE STA	
	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 22/11/21	L Wed 23/3/22					-	-				
	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 (370m		Wed 19/1/22		HK Working Day	, 303		100%	Wed 19/1/22	Tue 22/3/22										
	2.5m/day)			Wed 23/3/22						Wed 23/3/22										
	Pipe Jacking stopped on 23/3/2022 m Pit D Crossing Wan Po Road and Lohas Park Road to TKO Landfill Stage I (Area	0 days 2046 days	Tue 7/11/17	Wed 14/6/23	and the second s		763		Tue 7/11/17			_					7			
	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			27/9							
	across MTTunnel Issue 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				♦ 3/11						
	Tender & Subletting	71 days	Fri 27/9/19	Fri 6/12/19	Calendar Day	307		100%	Fri 27/9/19	Fri 6/12/19										
	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			100%	Tue 25/2/20	Thu 2/4/20										
		0 days			Calendar Day		313,314,315			Wed 21/10/2	0			* 21/10						
1	Issue CE No. 77 - Design of Water Main Structure and Modification Works to the Affected Geotechnical Features in Wan Po Road and Lohas Park Road				Calendar Day	312	,			Thu 31/12/20										
	Quotation Submission and Acceptant for CE No. 77	72 days 42 days		Tue 1/12/20	Calendar Day				Wed 21/10/20											
	CE No. 77 - Submission of Geotechnical Assessment Repot						316,317			Thu 31/12/20		-								
	CE No. 77 - Design Submission	72 days		Thu 31/12/20			310,317		Fri 3/9/21	Fri 3/9/21					♦ 3/9					
	CE No. 77 - Approval of Design Submission	0 days	Fri 3/9/21	Fri 3/9/21	Calendar Day		240								♦ 11/8					
	Issue CE No. 67 - Realignment of Water Main near Wan Po Road and Lohas Park Road	0 days		Wed 11/8/21			319			Wed 11/8/21									+	
	Obtain MTR's approval on the alignment and construction method about MTR's tunnels	91 days	Mon 13/12/21	Mon 14/3/22	Calendar Day	320FF	348,347			1 Mon 14/3/22										
	Tender Process and Tender Award for CE No. 67	77 days	Wed 11/8/21	Tue 26/10/21	Calendar Day	317	320,363	100%	Wed 11/8/21	Tue 26/10/21										
	TTA approval and Implement for CE No. 67	125 days	Wed 27/10/21	Mon 28/2/22	Calendar Day	319	348,318FF,347			1 Mon 28/2/22										
	Handshield Crossing Wan Po Road (CH.FA0+15 to CH.FA0+50)	1484 days	Tue 7/11/17	Thu 10/11/22	HK Working Da	У			Tue 7/11/17		Y									
	Issue CE No. 98 - Tree Felling at Lohas Park Road	0 days	Mon 18/1/21	Mon 18/1/21	Calendar Day		323	100%	Mon 18/1/21	Mon 18/1/21				•	18/1					
	TPRP Submission and Approval for Tree at Slope Feature 12SW-A/FR102	121 days	Mon 18/1/21	Tue 18/5/21	Calendar Day	322	324	100%	Mon 18/1/21	Tue 18/5/21										
	Tree Felling and Tree Works at Slope Feature 12SW-A/FR102	7 days	Mon 21/6/21	Mon 28/6/21	HK Working Day	y 323		100%	Mon 21/6/21	Mon 28/6/21										
	Approval TTA for Loading and Unloading at R27	0 days	Wed 1/6/22	Wed 1/6/22	HK Working Da	у	326	0%	NA	NA						▶ 1/6				
	Strengthen Works at Feature 12SW-A/R27	80 days	Wed 1/6/22	Sat 3/9/22	HK Working Da	y 325		0%	NA	NA									77	1
	Strengthen Works at Feature 12SW-A/R28	98 days	Tue 14/12/21	Thu 14/4/22	HK Working Da	У	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						101				
	Handshield Establishment	14 days	Sat 4/6/22	Mon 20/6/22	HK Working Da	y 329	331	0%	NA	NA		# 1								
	Mild Steel Sleeve Pipe in Soil Mix (35m; 0.6m/day)	58 days	Tue 21/6/22	Sat 27/8/22	HK Working Da	ıy 330	332	0%	NA	NA		1								
	Remove establishment	6 days	Mon 29/8/22	Sat 3/9/22	HK Working Da	y 331	333	0%	NA	NA						1				
	Setup for Pipe Laying inside jacking	6 days	Mon 5/9/22	Sat 10/9/22	HK Working Da		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			335	0%	NA	NA										
			Fri 30/9/22	Sat 8/10/22	HK Working Da		336	0%	NA	NA							1			
	Formwork & Setup for Grouting the gap between pipe and Sleeve	6 days			2 HK Working Da		337	0%	NA	NA							1			
	Grouting Works (30 meter/day)	4 days																		
	Pipe laying Works From Pit D to CH.FA0+15	24 days	Fri 14/10/22	Thu 10/11/22	2 HK Working Da	ay 336	339	0%	NA	NA										
	Task Summary	Inacti	ive Milestone	D	Ouration-only	Start-only	С	External Milesto	ne 💠	Critical	Split									
rogran	nme No. 15 Split Project Summary		ive Summary	N	Ianual Summary Rollup 🕳	Finish-only	3	Deadline	4	Progress										

	In .	le.	Ir::-t	Test Calandar D3	Project: Mainlaying in T	I'seung Kwan O	Actual Cens	Actual Finish	
	Duration	Start	Finish	Task Calendar Predecessors	Successors	Complete	Actual Start	Actual Finish	2019 2021 2022 203 Q4 Q1 Q2 Q3 Q3 Q4 Q1 Q3
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
. <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	2 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
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
			Sat 21/8/21				Fri 15/5/20	Sat 21/8/21	
H.FB1+66 - CH.FB 5+39 OC	379 days				381		Mon 12/4/21		
:H.FB5+34 - CH.FC 0+00 OC	101 days			1 HK Working Day 394					
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 Mileste	one 💠	Critica	cal Split
ne No. 15 Split Project Summary		tive Summary			nish-only	Deadline	4	Progre	ress und Progress

						Project: Mainlaying in Tse	eung Kwan O												
Task Nam	ne	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	ctual Start	Actual Finish	2018	2019	2020	2021		2022	2023	2024 2024		2025
	CUTCO OD CUTCO 20 OC	38 days	Mon 12/7/21	Tue 24/8/21	HK Working Day 381		100% N	10n 12/7/21	Tue 24/8/21	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 Q2 Q3
			Sat 19/6/21	Tue 24/8/21	HK Working Day 382,376	380			Tue 24/8/21										
		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		ri 15/5/20	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% V	Ved 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	Mon 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	/lon 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										
	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	Non 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	/lon 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										
		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						1				
	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% 7	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%	Sat 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%	Wed 3/3/21	Sat 27/3/21					1	100				
	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%	Sat 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%	Mon 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%	Tue 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%	Tue 14/4/20	NA						-				
	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	VA.	NA						-				
	CH.FC 8+59 - CH.FC 9+83 OC	200 days	Fri 15/10/21		HK Working Day 412,408	423,377,410	80% I	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	1/6						
	Issue CE No. 65 - Landscaping Survey near Po Yap and Pung Loi Road	0 days			Calendar Day								♦ 22/1	2					
	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				₹ 22/1						
	TPRP Submission and Approval	304 days	Tue 22/12/20	Thu 21/10/21	L 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	L Calendar Day 416	427	100%	Fri 22/10/21	Thu 11/11/2						1				
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%	Thu 27/5/21	Thu 27/5/21					♦ 27/5					
9	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										
0	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%	Thu 27/5/21	Tue 30/11/2										
	ogramme No. 15 Task Summary Split Project Summary		ive Milestone		Duration-only Start-onl Ianual Summary Rollup Finish-o		External Milestone Deadline	- 0 -	Critical Progress	plit									
	Split Project Summary Allestone Inactive Task		ral Task		Ianual Summary External		Critical		Manual	rogress									

Name	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018	201	19 19 1 Q2 Q3 Q4 Q1 Q2 Q3 Q	2021	2022	2023	024 024 01 02 03 0	2025
Open Trench Crossing Pung Loi Avenue	156 days	Mon 20/6/22	Fri 23/12/22	HK Working Day		0%	NA	NA	Q4 Q1 Q2 0	Q3 Q4 Q1	1 Q2 Q3 Q4 Q1 Q2 Q3 Q	4 Q1 Q2 Q3	Q4 Q1 Q2	Q5 Q4 Q1 Q2 Q5 Q4	71	24 QI Q
Obtain Access from EPD (TKO Landfill Stage Area B)	14 days	Mon 20/6/22	Thu 7/7/22	HK Working Day 411	424	0%	NA	NA				4				
	100 days	Fri 8/7/22	Fri 4/11/22	HK Working Day 420,423	425	0%	NA	NA								
CH.FD0+00 - CH.FD0+65 OC				HK Working Day 424		0%	NA	NA								
Construction DN900 SV Chamber at CH.FD0+25	42 days	Sat 5/11/22	Fri 23/12/22													
Exposed Pipe From CH.FDD0+65 to FDSKR+00	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								
Exposed Pipe, Length = 173m, with concrete saddle Supports	42 days	Fri 7/10/22	Thu 24/11/22	HK Working Day 427	430	0%	NA	NA								
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		
Open Trench Connecting Trenchless and Exposed Pipe	230 days	Thu 16/2/23	Thu 23/11/23	HK Working Day		0%	NA	NA						-		
CH.FSKR+00 to CH.FD3+15 OC	90 days	Thu 16/2/23	Wed 7/6/23	HK Working Day 430	435,434	0%	NA	NA								
		Thu 8/6/23	Mon 11/9/23	HK Working Day 433	435,764,765	0%	NA	NA								
CH.FDD3+15 to CH.FDD3+51 OC with DN900 Valve Chamber and By-pass Pipe and Connection to Pit WPR1					433,704,703											
Make Good Slope Toe and Landscape Work	60 days	Tue 12/9/23	Thu 23/11/23	HK Working Day 433,434,431		0%	NA	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 Day	765	78%	Thu 20/8/20	NA)		
Trial 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								
Trial 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								
Issue CE No. 59 - Realignment of Water Main near Pung Loi Road and Po Yap Round	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				
Roundabout Tender 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								
Design & Method Statement Submission and Approval; Preparation Works for Pit J1.	A 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								
		Thu 17/6/21	Sat 13/11/21	HK Working Day 441	452	100%	Thu 17/6/21	Sat 13/11/21								
Design & Method Statement Submission and Approval; Preparation Works for Pit G1A					450	100%		Sat 13/11/21								
Design & Method Statement Submission and Approval; Preparation Works for Pit WPR1	125 days	Thu 17/6/21	Sat 13/11/21	HK Working Day 441												
TTA preparation, SLG meetings and obtain RA	293 days	Fri 13/11/20	Wed 1/9/21	Calendar Day 439	448	100%	Fri 13/11/20	Wed 1/9/21								
Trenchless Crossing MTR Tunnels (Pit WPR1 to Pit G1A)	717 days	Fri 9/10/20	Sat 11/3/23	HK Working Day		50%	Fri 9/10/20	NA			<u> </u>					
Inspection Pit at Location of Pit G1A	19 days	Fri 9/10/20	Sun 1/11/20	HK Working Day		100%	Fri 9/10/20	Sun 1/11/20								
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					7			
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				•	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					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				-				
	91 days	Mon 27/9/21		HK Working Day 451,442	470,454		Mon 27/9/21									
Receiving Pit G1A (Near Po Yap Road)				HK Working Day	17 0,151	14%	Mon 7/3/22									
TBM Pipe Jacking (WPR1 to J1A)	301 days	Mon 7/3/22	Sat 11/3/23													
TBM Establishment at Pit WPR1	38 days	Mon 7/3/22	Sat 23/4/22	HK Working Day 450,452	455	100%										
Jacking DN1600 Precast Concrete Sleeve Pipe (224m; 2.0m/day)	112 days	Sun 24/4/22	Tue 6/9/22	HK Working Day 454	456	5%	Sun 24/4/22	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	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								
	18 days		Sat 18/2/23	HK Working Day 460	462	0%	NA	NA								
Pipe Connection inside Working Pit WPR1						0%	NA NA	NA								
Remove ELS including extracting sheet piles at Pit WPR1; Reinstatement	18 days		Sat 11/3/23	HK Working Day 461		35055										
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								
Task Summary	Inaction	re Milestone	D	uration-only Start-c	only E	External Milesto	ne 💠	Critical	Split		**				-	
Programme No. 15 Task Summary		ve Summary		Ianual Summary Rollup Finish		Deadline		Progress								

	-	la:	Pro 1 1	m-1 0-11	D-3	P	le.	Actual Start	Actual Finish										Process.	
k Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	racuat fillish	2018	02 02 04	019	2020	03 04 6	021	04 01 0	202	3 Q2 Q3 Q4	2024 2024 Q1 Q2 Q3	Q4 Q1 Q
Construction of Jacking Pit J1A (Hand Shield)	32 days	Mon 3/5/21	Wed 9/6/21	HK Working Day	/	HESTERN.	100%	Mon 3/5/21	Wed 9/6/21	Q4 QI	Q2 Q3 Q4	QI QZ Q3	Q4 Q1 Q2	Q3 Q4 C	ZI QZ Q3	Q+ QI Q	. 03 04 01	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	4. 45 45	3. 3. 3
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 Da			96%	Thu 10/6/21	NA								,		5 5 6 7 7	
	16 days	Thu 10/6/21	Tue 29/6/21	HK Working Day	465	468	100%	Thu 10/6/21	Tue 29/6/21											
	101 days	Wed 30/6/21		HK Working Day		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	HK Working Day		471		Tue 8/3/22	Wed 23/3/22											
56.dp 15.1 1.ps ==/g	14 days	Tue 8/3/22							Wed 18/5/22											
DN1200 MS Pipe Laying inside jacking pipe (~70m) (3 days per 4m)	42 days	Thu 24/3/22	Wed 18/5/22	HK Working Day		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	50%	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 Da	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 Da	475	477	0%	NA	NA											
Backfill Trench and Remove ELS	18 days	Thu 1/9/22	Thu 22/9/22	HK Working Da	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 Da	y 477		0%	NA	NA											
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				•	11/6						
Yap Road and the Junction of Po Hong Road and Po Shun Road. Construction of Jacking Pit K & Pit P	263 days	Fri 28/2/20	Fri 15/1/21	HK Working Da	у		100%	Fri 28/2/20	Fri 15/1/21				-	-						
Inspection Pit Excavation at Pit K	16 days	Fri 28/2/20	Tue 17/3/20	HK Working Da	v		100%	Fri 28/2/20	Tue 17/3/20				-							
	3 days	Mon 29/6/20		HK Working Da			100%	Mon 29/6/20	Thu 2/7/20					1						
Inspection Pit Excavation at Pit P		Thu 16/7/20	Mon 27/7/20	HK Working Da		486)				1						
Forming temporary Vehicle Access for Pit P	10 days					489			Tue 1/12/20											
Jacking Pit K	15 days	Sat 14/11/20	Tue 1/12/20	HK Working Da		409		Mon 3/8/20												
Jacking Pit P + additional Grouting	137 days	Mon 3/8/20	Fri 15/1/21	HK Working Da			100%													
Hand Shield Jacking (Pit K to Pit L)	125 days	Fri 11/12/20	Tue 18/5/21	HK Working Da	ly .				Tue 18/5/21					Ĭ,	11/10					
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	0 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				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								7			
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 16/2/2	2	A					♦ 16	2			
TBM Establishment at Pit O	79 days	Wed 19/1/22	Thu 28/4/22	HK Working Da	ч	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	ay 494	496	8%	Fri 29/4/22	NA											
Grouting around sleeve pipes	9 days	Thu 21/7/22	Sat 30/7/22	HK Working Da	ay 495	508,497	0%	NA	NA								1			
Remove Pit setup at Pit P	14 days	Mon 1/8/22	Tue 16/8/22	HK Working Da	ay 496	508	0%	NA	NA											
	116 days	Tue 14/12/21					22%	Tue 14/12/2	1 NA							-				
DN1200 Pipelaying (Pit K to Pit L)	6 days		Fri 7/1/22	HK Working Da		500		Tue 14/12/2:												
Setup for Pipe Laying inside jacking Pit K						501			Tue 25/1/22											
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																	
Formwork & Setup for Grouting the gap between pipe and Sleeve	2 days	Wed 26/1/22		HK Working D		502			Sat 29/1/22											
Grouting Works (30 meter/day)	4 days	Wed 9/2/22		HK Working D		503,505			Sat 12/2/22											
Pipe Connection at Pit L	9 days	Thu 10/2/22	Sat 19/2/22	HK Working D	ay 502	504	10%	Thu 10/2/22								1				
Remove ELS at Pit L	24 days	Mon 21/2/22	Sat 19/3/22	HK Working D	ay 503		0%	NA	NA							•				
Remove ELS at Pit K	24 days	Mon 14/2/22	Sat 12/3/22	HK Working D	ay 502	506	0%	NA	NA											
						F	Date and Mark		Critica	1 Split										
ng Programme No. 15		ive Milestone ive Summary		Ouration-only Janual Summary Rollup	Start-only Finish-only	E	External Milesto Deadline	oue -	Progre											

					Project: Mainlaying in Tse	oung It and O											
ne	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2019	2019 2019	1202	0	2021	2022	2023	2024	2025
200	45.1	M 14/2/22	W-4 11/5/22	UK Working Day EOE	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 Q	Q1 Q1 C
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									-			
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		de la constante de la constant	
	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						1			
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						
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			* 1	3/1					
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				♦ 30/6					
Tseung Kwan O Sport Ground	99 days	Mon 18/11/19		Calendar Day 519,518				9 Mon 24/2/20									
Tender and Subletting for CE No. 28					523			Tue 19/5/20									
TTA preparation, SLG meetings, obtain RA and TPRP Approval for Temporary Vehicular Access at HK Velodrome	128 days	Mon 13/1/20	Tue 19/5/20	Calendar Day 519,518													
Coordination with LCSD and Notification to District Councilors	14 days	Wed 20/5/20	Tue 2/6/20	Calendar Day 522	524	100%	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				1					
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				1					
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				1					
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									
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					I				
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				Y					
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				-	7				
	81 days	Sat 24/10/20	Sat 30/1/21	HK Working Day 532	489			Sat 30/1/21									- I
Receiving Pit L							Sat 11/7/20										
Jacking Pit M	89 days	Sat 11/7/20	Sat 24/10/20	HK Working Day 527	531,547												
Receiving Pit N	66 days	Thu 30/7/20	Fri 16/10/20	HK Working Day		100%	Thu 30/7/20										
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								4	
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				
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					The second secon							
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		G							
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					♦ 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 13/9/21	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 26/10/2	20 Sat 28/11/20				-					
ogramme No. 15 Task Summary		ve Milestone			Start-only E Finish-only	External Milesto Deadline	ne 🐡	Critical S Progress	plit								
Split Project Summary 24 May 2022 Milestone Inactive Task		ve Summary al Task			External Tasks	Critical	*	Manual P									

			1-	les v.		Project: Mainlaying in Tseung		L. 10	A									
ask Name		Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018	20	19 19 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	Q1 Q2 Q3 Q4	Q1 Q2 Q3	Q4 Q1 Q2 Q3	Q4 Q1 Q2 Q3	6 Q4 Q1 Q2
	in Soil (134m; 3.5m/day)					536		Thu 29/4/21										
		11 days	100000000000000000000000000000000000000		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					♦ 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			
	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					1				
	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							1			
	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						-	-		
	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									
10874	Reinstallation of Cycle track Pavement and Planter	132 days	Thu 12/1/23	Mon 26/6/23	HK Working Day		0%	NA	NA							-		
	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									
						-	0%	NA	NA									
	Handover Inspection with LCSD and HyD	6 days	Mon 19/6/23															
Wa	ter 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					-				
	ssue 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							
	nd TKO Freshwater PSR ssue 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				♦ 3/8					
1	ssue 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				♦ 3/9					
١	vorks 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									
	endering Process, Tender Award for CE No. 51 (Batch No. 2)	102 days	Mon 3/8/20	Thu 12/11/20										_				
1	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		Puration-only Start-only	Г	External Milesto	ne 🍮	Critical	Split								
	mme No. 15 Task Summary Nay 2022 Split Project Summary	Inacti	ive Summary	, N	Ianual Summary Rollup Finish-only	ı c	Deadline		Progres									
	Milestone ♦ Inactive Task	Manu	ad Task	N	Ianual Summary External Tas	ks	Critical	The same of the sa	Manual	1 togtess								

					Project: Mainlaying in Tseu	ang Kwan O															
ask Name	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Sta	rt Actual Finish	100	10	2019		2020	100		2022	l or	023	2024 2024	T	2025
								100 = 40/44	Q4 Q	18 1 Q2 C	03 Q4 Q1	Q2 Q3 Q4	Q1 Q2 0	Q3 Q4 Q1	Q2 Q3 C	24 Q1 Q	22 Q3 Q4 Q	1 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	3/20 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 21/12	2/20					I							
Issue EWN No 269 - Unexpected High Rockhead Level Encountered at Working Pit R	0 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:							♦ 30/7						
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 FII 30/7/2.													
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					24/1	1			The state of the s			
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 la material 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													
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 509	601	100%	Mon 5/	7/21 Sat 23/10/	721							-					
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												
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				
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																	
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								- E					
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 .2/20 Fri 18/12/	20					• 18	/12						
works near Po Hong Road and Ling Hong Road	ouays																				
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	/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												
		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 6/11/2	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	/21 Fri 19/11/	21												
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	1/21							1					
					624	100%	Mon 13	3/12/21 Wed 22/1	2/21							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	2												
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																
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	Sun 8/8/21	HK Working Day 635,595	627			0/5/21 Sun 8/8/2			1										
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						-		-					
	0 days	Fri 25/6/21	Fri 25/6/21	HK Working Day		100%	Fri 25/6	5/21 Fri 25/6/2	1						♦ 25/6						
Village														A 000							
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					♦ 22/9							
Issue 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 12/1	.0/20					12/10							
																	1				
rking Programme No. 15 Task Summary		tive Milestone			rt-only	External Milest			tical Split												
Date : 24 May 2022 Split Project Summary Milestone Inactive Task		tive Summary nual Task			tish-only 3	Deadline Critical			gress mual 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	20	022 2	023 20	24 J24	207
	205 4	Tue 22/0/20	Mon 20/0/21	HK Working Day 631	661,633	100%	Tue 22/9/20	Mon 20/9/21	Q4 Q1 Q2 Q3	Q1 Q2 Q3	Q4 Q1 Q2 Q	3 Q4 Q1	Q2 Q3 Q4 0	Q1 Q2 Q3 Q4	023 Q1 Q2 Q3 Q4 Q	1 Q2 Q3 Q	M Q1
Tree survey, TPRP Submission and Receiving TPRP approval	295 days	Tue 22/9/20															+
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						4.0			
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						\$ 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									
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					₽	-			
Open Cut, CH.HA3+79 - CH.HA4+68 with SACP	127 days	Wed 12/5/21	Tue 12/10/21	HK Working Day	639	100%	Wed 12/5/21	Tue 12/10/21									
	60 days	Tue 14/6/22	Tue 23/8/22	HK Working Day 638,640		0%	NA	NA									
Open Cut, CH.HA4+68 - CH.HA5+21				HK Working Day	639		Mon 28/3/22	NΔ									+
Open Cut, CH.HA5+21 - CH.HA5+55 (Pit W)	60 days		Mon 13/6/22		033								,	7			+
enchless Work at Po Lam Road South	259 days	Wed 14/4/21		HK Working Day				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				- 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									
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					-				
Receiving Pit W	8 days	Mon 23/8/21	Tue 31/8/21	HK Working Day 643		100%	Mon 23/8/21	Tue 31/8/21					1				
Jacking Pit X	31 days	Sat 24/4/21	Tue 1/6/21	HK Working Day 644	649	100%	Sat 24/4/21	Tue 1/6/21					-				
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						-			
		Wed 2/6/21	Sat 19/6/21	HK Working Day 647	650			Sat 19/6/21									+
Establishment at Pit X	15 days							Tue 13/7/21					1				+
Form Entrance Opening at pit X	5 days	Thu 8/7/21	Tue 13/7/21	HK Working Day 649	651												4
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	L 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				
Setup for Pipe Laying inside Jacking Pit X	6 days	Thu 28/10/21	Wed 3/11/21	HK Working Day 653,652	655	100%	Thu 28/10/21	Wed 3/11/21					1				
DN900 MS Pipe Laying inside Jacking Pipe (3 days per 4m)(Only Internal)	19 days	Thu 4/11/21	Thu 25/11/21	HK Working Day 654	656	100%	Thu 4/11/21	Thu 25/11/21									
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	100%	Sat 12/2/22	Mon 14/2/22						1			
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						1			
	465 days	Mon 20/7/20	Fri 11/2/22	HK Working Day	767,768	100%	Mon 20/7/20	Fri 11/2/22						7			-
Open Trench Pipe Laying at Po Lam Road (West Bound)					660			Mon 20/7/20			•	20/7					+
Issue CE No. 68 - TIA for TTA at Po Lam Road	0 days		Mon 20/7/20														-
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		Mon 20/7/20										
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									
Open Cut, fromt Pit X, CH.HA6+00 - CH.HA6+54	86 days	Thu 28/10/21	Fri 11/2/22	HK Working Day 661,665,633		100%	Thu 28/10/21	Fri 11/2/22									
Construction of DN900 Valve Chamber and By Pass Pipes	17 days	Tue 11/1/22	Sat 29/1/22	HK Working Day 661		100%	Tue 11/1/22	Sat 29/1/22									
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	2 HK Working Day	768	93%	Tue 5/5/20	NA			-						-
Course (Location A) (CH.HB0+00 ~ CH.HB0+ CE)			Tue 16/6/20		669		Tue 5/5/20	Tue 16/6/20				-					+
Design Submission (CE No. 55) for Water Main Structure and Associated Pipe Support across the Natural Stream Course	37 days	Tue 5/5/20															_
WSD & GEO Review and Approve	121 days	Wed 17/6/20	Thu 15/10/20	O Calendar Day 668	672			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	O 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 across the Natural Stream Course for Alternative Alignment in Tsui Lam	oort 0 days	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 Tender and Subletting (Mini-Pile)	62 days	Fri 16/10/20	Wed 16/12/2	20 Calendar Day 669		100%	Fri 16/10/20	Wed 16/12/20									
Issue CE No. 85 - Affected Trees across the Natural Stream Course at Tsui Lam (Location A)	0 days	Wed 28/10/2	0 Wed 28/10/2	20 Calendar Day		100%	Wed 28/10/2	0 Wed 28/10/20				* 28/10					
Tack Summary	Inact	tive Milestone	Г	duration-only Star	t-only E	External Mileston	ne 🌼	Critical Sp	t	111111111							
amme No. 15 May 2022 Split Project Summary		tive Summary	1 N		ish-only	Deadline Critical		Progress Manual Pro	17.05								

				In the	m · er ·	D 1	Project: Mainlaying in Ts		A about Dr	A oty-1 TV 11										
k Name		Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	Q4 Q1 Q2 Q3 Q	2019	20	20 20	1	2022	2023	I and the Lan	2024	2025
т	ree survey, TPRP Submission and Receiving TPRP approval (HyD)	227 days	Mon 31/8/20	Tue 8/6/21	HK Working D	ray	676	100%	Mon 31/8/20		Q4 Q1 Q2 Q3 Q	4 Q1 Q2	Q3 Q4 C	1 Q2 Q3 Q4 Q	Q2 Q3 Q4	Q1 Q2 Q1	3 Q4 Q1	Q2 Q3 Q4	Q1 Q2 Q3	Q4 Q1 Q2
	(ast 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					P	-				
E					HK Working D		677		Wed 9/6/21	Thu 8/7/21										
	Mobilization and Tree Removal	24 days	Wed 9/6/21	Thu 8/7/21																
	Erect Temporary Timber Platform for Piling Works	7 days	Fri 9/7/21	Fri 16/7/21	HK Working [ay 676	678		Fri 9/7/21	Fri 16/7/21										
	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	Pay 677	679,686	100%	Sat 17/7/21	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 [ay 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 [Pay 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 [eay 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 [Pay 681		100%	Fri 18/3/22	Sat 26/3/22										
	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 [Pay 683,680	694	0%	Mon 23/5/22	NA										
V	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					-					
4.5	Mobilization and Tree Removal	3 days	Tue 5/10/21	Thu 7/10/21	HK Working I	Day 678	687	100%	Tue 5/10/21	Thu 7/10/21					1					
		5 days	Thu 28/10/21	Tue 2/11/21	HK Working [688		Thu 28/10/21	Tue 2/11/21					1					
	Erect Temporary Timber Platform for Piling Works					Day 687,703,707	689		Fri 26/11/21											
	and depth of mini-pile		Fri 26/11/21	Tue 14/12/21																
	Driving Dia. 323mm steel Casting (26 nos)	58 days	Wed 15/12/21		HK Working I		690		Wed 15/12/21											
	Cleaning, Insert T50 reinforcement and Grouting	50 days	Sat 26/2/22	Fri 29/4/22	HK Working I	Day 689	692,691	100%	Sat 26/2/22	Fri 29/4/22										
	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	NA										
	Remove Timber platform for Piling Works	2 days	Thu 28/7/22	Fri 29/7/22	HK Working I	Day 690,691	694	0%	NA	NA										
- 1	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	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	Day 694	696	0%	NA	NA						1				
	Pipe Installation / Welding / Testing / Painting	24 days	Sat 20/8/22	Sat 17/9/22	HK Working	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			
		6 days		Tue 18/10/22			702	0%	NA	NA							1			
	Remove Temporary Working Platform		Thu 8/4/21	Tue 14/2/23			768		Thu 8/4/21	NΔ							~			
	pen Trench Pipe Laying at Po Lam Road (East Bound)	551 days					702		NA	NA										
	Open Cut, CH.HC0+00 - CH.HC0+08; Connecting to CH.HB	60 days		Tue 29/11/22			702	0%												
	Open Cut, CH.HC0+08 - CH.HC0+12	60 days	Wed 30/11/22	Tue 14/2/23	HK Working	Day 699,701		0%	NA	NA										
	Open Cut, CH.HC0+12 - CH.HC0+97 with SACP	104 days	Wed 16/6/21	Tue 19/10/21	HK Working	Day	704,688	100%	Wed 16/6/21	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	. 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										
	Vater Main Structure and Associated Pipe Support from Po Lam Road to Tsui Lam	n 771 days	Tue 16/6/20	Thu 19/1/23	HK Working	Day	768	82%	Tue 16/6/20	NA				-			-			
Ro	oad (Location B)(CH.HD0+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	y	711	100%	Tue 16/6/20	Tue 16/6/20				♦ 16/6						
	Design Submission (CE No. 62) for Water Main Structure and Associated at Tsui Li		Wed 17/6/20		HK Working		712	100%	Wed 17/6/20	Fri 27/8/21										
			Tue 21/9/21	Tue 21/9/21			716		Tue 21/9/21						♦ 21	/9				
	WSD & GEO Approval	0 days								Thu 30/9/21					* 3					
	TTA Drawing approval for Tsui Lam Road	0 days	Thu 30/9/21	Thu 30/9/21			719		Thu 30/9/21						* 5					
	LCSD's Consent	0 days	Tue 5/10/21	Tue 5/10/21			715FS+18 days		Tue 5/10/21											
	Approval of Excavation Permit for Tsui Lam Road	0 days	Mon 1/11/21	Mon 1/11/21	L HK Working	Day 714FS+18 days		100%	Mon 1/11/21	Mon 1/11/21					•	1/11				
		1-	ive Milestone		Ouration-only	Start-oi	nly F	External Milesto	ne 🌼	Critical S	olit									
	nme No. 15 Solit Project Summary		ive Summary		Janual Summary Rollup			Deadline Deadline		Progress										

					Project: Mainlaying in Tseu												
	Duration	Start	Finish	Task Calendar Pre	decessors Successors	% Complete	Actual Start	Actual Finish	2018	2019	020	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 71	2 721	100%	Fri 27/8/21	Mon 22/11/21	4 Q1 Q2 Q3 Q4	Q1 Q2 Q3 Q4 2	Q1 Q2 Q3 Q	4 Q1 Q2 Q	3 Q4 Q1 Q	2 Q3 Q4 Q1	Q2 Q3 Q4	Q1 Q2 Q3 C	<u>м</u> 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									
	69 days	Mon 20/9/21	Sat 11/12/21	HK Working Day 71			Mon 20/9/21										
Mobilization, Tree Removal Works & Site Clearance				Calendar Day 71				Tue 14/12/21									
Obtain RA for TTA implement	38 days	Sun 7/11/21	Tue 14/12/21		3,/16 /21												
Mini-pile Foundation Works	258 days			HK Working Day			Wed 15/12/21										
Erect Temporary Timber Platform for Piling Works	25 days	Wed 15/12/21		HK Working Day 71			Wed 15/12/21										
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 72	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 72	724	61%	Sat 26/3/22	NA									
Cleaning, Insert T50 reinforcement and Grouting	18 days	Wed 1/6/22	Wed 22/6/22	HK Working Day 72	725	0%	NA	NA									
Setup and Loading Test of Mini-Pile	36 days	Thu 23/6/22	Thu 4/8/22	HK Working Day 72	726	0%	NA	NA									
Construction Pile Caps (PC-C, PC-P1, PC-P2, PC-P3 & PC-T) and Piers (P1, P2 & F	² 3) 72 days	Fri 5/8/22	Mon 31/10/22	HK Working Day 72	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						~~			
Temporary Working Platform for Pipe Installation	6 days	Tue 1/11/22	Mon 7/11/22	HK Working Day 72	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 72	730	0%	NA	NA									
Pipe Installation / Welding / Testing / Painting (~115m)	24 days	Tue 22/11/22	Mon 19/12/22	HK Working Day 73	731	0%	NA	NA									
Concrete Hunching	12 days	Tue 20/12/22	Thu 5/1/23	HK Working Day 73	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 73	733	0%	NA	NA						ı			
	6 days	Fri 13/1/23	Thu 19/1/23	HK Working Day 73		0%	NA	NA						1			
Remove Temporary Working Platform	1649 days	Tue 7/11/17	Mon 5/6/23	HK Working Day	768	81%	Tue 7/11/17		,						-		
From Tsui Lam Road to TKO Freshwater PSR (CH.HE.0+00 ~ CH.HE2+11) & (CH.HF0+00 CH.HF3+11)							Fri 19/2/21	Thu 25/3/21									
Batch No 3 - Temporary Works Design and Preliminary Works	30 days	Fri 19/2/21	Thu 25/3/21	HK Working Day 58													
TTA preparation, SLG meetings, obtain RA	150 days	Mon 3/8/20		Calendar Day 58		100%	Mon 3/8/20	Wed 30/12/20									
Material procurement (DN800 MS PIPE) (360m)	255 days	Fri 19/2/21	Sun 31/10/21	Calendar Day 58	39 730,751,755,753	100%	Fri 19/2/21	Sun 31/10/21									
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.HEO+00 to 0+06)	48 days	Fri 20/1/23	Mon 20/3/23	HK Working Day 73	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 74	40	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 1/3/21	NA									
Issue CE No. 114 - Non-explosive agent near TKO Freshwater Preliminary Serv	ice 0 days	Fri 14/5/21	Fri 14/5/21	HK Working Day		100%	Fri 14/5/21	Fri 14/5/21				♦ 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 20/8/21	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 25/10/21	1 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 1/3/21	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+	11 60 days	Wed 19/1/22	Fri 1/4/22	HK Working Day 7	47 749	0%	NA	NA			-						
Construction of flowmeter kiosks and GI cable ducts for Combined EMF and N		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	770		Tue 7/11/17		,					•			
Water Mains CH.HF0+00 - CH.HF3+10 (Inlet A)																	
Open Cut CH.HF0+00 - CH.HF0+19	67 days	Sat 20/11/21		HK Working Day 7	3/												
Open Cut CH.HF0+19 - CH.HF1+30	114 days	Fri 31/12/21	Tue 24/5/22	HK Working Day			Fri 31/12/21										
Construction of Combined EMF and MBV Chamber at CH.HF1+30	90 days	Sat 22/1/22	Tue 17/5/22	HK Working Day 7	37		Sat 22/1/22										
Open Cut CH.HF1+30 - CH.HF1+36	31 days	Sat 22/1/22	Wed 2/3/22	HK Working Day			Sat 22/1/22										
Exposed Pipe CH.HF1+36 - CH.HF2+85	53 days	Thu 25/11/21	Fri 28/1/22	HK Working Day 7	37 757	100%	Thu 25/11/21	Fri 28/1/22									
Exposed Pipe to the side wall of TKOFWSR	41 days	Thu 24/2/22	Wed 13/4/22	HK Working Day 7	57	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 7	756	100%	Mon 14/2/22	Wed 23/2/22									
	Inacti	ive Milestone	Du	ration-only	Start-only E	External Milesto	ne 🗣	Critical Spli		200							
gramme No. 15																	

Construction of flowmeter kiosks and GI cable ducts for Combined EMF and MBV Chamber at CH.HF1+30 1800 - CH.ADN1200 MS Pipe Static Pressure Test, Pipeline Cleaning, CCTV Inspection, 223 days critication and Water Sampling Static Pressure Test DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.CA4+24 to A9 days CH.CT.2+65 (Approx. 0.7km) 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) 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) 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) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 1.4km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA0+44) (approx. 0.7km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+30) (Approx. 1.1km) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+30) (bprox. 1.1km) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+30) (br.H.HF3+30) (br.H.HF3+3	wed 24/3/21 Wed 24/3/21 Wed 24/3/21 Fri 29/9/23 Tue 27/2/24 Tue 12/9/23 Tue 19/4/22 Fri 1/4/22	Tue 6/8/24 Mon 8/4/24 Tue 11/5/21 Sat 18/11/23 Mon 8/4/24 Mon 13/11/23 Mon 23/10/23	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day	105 121,167,184,213,224 224,251,306	772 773 774	13%	NA Wed 24/3/21 Wed 24/3/21 Wed 24/3/21	NA NA	Q4 Q1 Q2	Q3 Q4 Q1	Q2 Q3 Q4	2020 Q1 Q2 Q3	3 Q4 2021	Q2 Q3 Q4	2022 Q1 Q2 Q3 (Q4 2023 Q4 Q1 Q2	20, 20; Q3 Q4 Q:	4 4 Q2 Q3 0	2025 24 Q1 Q
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DN300 Valve Chamber at Wan Po Road (CH.A12+50) (Approx. 1.7km) DN3200 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) 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) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 1.4km) DN1200 MS Pipe - Static Pressure Test From Pit Y (CH>GSKR.20 to CH.HA3+70) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (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) & (CH.HF1+30) (Approx. 1.1km) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO 6 days F.W.S.R.(CH.HF1+30) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO 6 days F.W.S.R.(CH.HF1+30) to CH.HF2+10 (Approx. 80m) Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.CA4+24 to CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) to	Tue 27/2/24 Tue 12/9/23 Tue 12/9/23 Tue 19/4/22 Fri 1/4/22 Tue 6/6/23	Mon 8/4/24 Mon 13/11/23 Mon 23/10/23	Calendar Day Calendar Day	224,251,306		0%													
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) 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) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 1.4km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (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 Chamber at Mau Wu Tsai (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) & (CH.HF1+30) (Approx. 1.1km) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HF1+30) to CH.HF3+10 (Approc. 80m) Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 da	Tue 12/9/23 Tue 12/9/23 Tue 19/4/22 Fri 1/4/22 Tue 6/6/23	Mon 13/11/23 Mon 23/10/23	Calendar Day		774	070	NA	NA											
(Approx. 1.4km) 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) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 1.4km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (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 Chamber at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & (CH.HF1+30) (Approx. 1.1km) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HF1+30) to CH.HF3+10 (Approc. 80m) Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 60 days at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days 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 at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 40 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 40 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 40	Tue 12/9/23 Tue 19/4/22 Fri 1/4/22 Tue 6/6/23	Mon 23/10/23		372.434		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) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 1.4km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 1.4km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (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) & (CH.HF1+30) (Approx. 1.1km) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO 6 days F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO 6 days F.W.S.R.(CH.HF1+30) to CH.HE3+10 (Approc. 80m) Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 60 days at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days 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 at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days 91 da	Tue 12/9/23 Tue 19/4/22 Fri 1/4/22 Tue 6/6/23	Mon 23/10/23		372.434															
DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 1.4km) DN1200 MS Pipe - Static Pressure Test From Pit Y (CH>GSKR.20 to CH.HA3+70) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (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) & (CH.HF1+30) (Approx. 1.1km) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HF1+30) to CH.HF3+10 (Approc. 80m) Pipeline Cleaning and CCTV Inspection DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 60 days at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.FD3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 4 CH.FD3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.FD3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 4 Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.	Tue 19/4/22 Fri 1/4/22 Tue 6/6/23		C-1- 1 5		775	0%	NA	NA											
DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 1.4km) DN1200 MS Pipe - Static Pressure Test From Pit Y (CH>GSKR.20 to CH.HA3+70) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (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) & (CH.HF1+30) (Approx. 1.1km) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HF1+30) to CH.HF3+10 (Approc. 80m) Pipeline Cleaning and CCTV Inspection DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 60 days at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.FD3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 4 CH.FD3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.FD3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 4 Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.	Tue 19/4/22 Fri 1/4/22 Tue 6/6/23		Laiendar Day	436,479,517,594,434	776	0%	NA	NA											
DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (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 & BY Chamber at TKO F.W.S.R.(CH.HE1+90) & (CH.HF1+30) (Approx. 1.1km) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HF1+30) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HF1+30) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 60 days at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 60 days	Fri 1/4/22 Tue 6/6/23	Fri 29/4/22	calcilaar Day	430,473,317,334,434	770														
(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) & (CH.HF1+30) (Approx. 1.1km) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE3+10 (Approx. 80m) Pipeline Cleaning and CCTV Inspection DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 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 at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A 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 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve	Tue 6/6/23		Calendar Day			100%	Tue 19/4/22	Fri 29/4/22											
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) & (CH.HF1+30) (Approx. 1.1km) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO 6 days F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HF1+30) to CH.HF3+10 (Approc. 80m) Pipeline Cleaning and CCTV Inspection DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 3t 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 4t Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 4t TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV From DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV		Sat 30/4/22	Calendar Day	628,623,658	777	0%	NA	NA											
(CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & (CH.HF1+30) (Approx. 1.1km) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO 6 days F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO 6 days F.W.S.R.(CH.HF1+30) to CH.HF3+10 (Approc. 80m) Pipeline Cleaning and CCTV Inspection DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 60 days at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days 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 at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From From DN900 Valve Chamber at Mau Wu Tsai (CH.HA6+45) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV		Sat 8/7/23	Calendar Day	658,667,700,709,734	778	0%	NA	NA								1			
DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+30) to CH.HF3+10 (Approc. 80m) Pipeline Cleaning and CCTV Inspection DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 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 at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 343 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV 18 days	Tue 26/7/22	341 0/1/23	calcinaar Day	050,007,700,705,70															
F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HF1+30) to CH.HF3+10 (Approc. 80m) Pipeline Cleaning and CCTV Inspection DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 3t 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 at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A 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 DN1200 MS Pipe - Pipeline Cleaning and CCTV From DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV 18 days		Sun 31/7/22	Calendar Day	742	779	0%	NA	NA											
F.W.S.R.(CH.HF1+30) to CH.HF3+10 (Approc. 80m) Pipeline Cleaning and CCTV Inspection DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 60 days at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days 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 at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days 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 Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV																			
DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 60 days at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days 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 at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TMD Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV From DN900 Valve Chamber at CH.FD 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 Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV 18 days	Wed 25/5/22	2 Mon 30/5/22	Calendar Day	750	780	0%	NA	NA											
at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days 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 at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV From DN900 Valve Chamber at CH.FD 90 days 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV	ys Wed 12/5/21	1 Sun 7/7/24	Calendar Day			10%	Wed 12/5/21	NA										7	
at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days 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 at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV From DN900 Valve Chamber at CH.FD 90 days 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV	Wed 12/5/21	L 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 90 days 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 at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV From DN900 Valve Chamber at CH.FD 90 days 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV 18 days																			
DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV	Sun 19/11/23	3 Fri 16/2/24	Calendar Day	762	782	0%	NA	NA											
at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A 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 DN1200 MS Pipe - Pipeline Cleaning and CCTV From DN900 Valve Chamber at CH.FD 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 Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV 18 days	Tue 9/4/24	Sun 7/7/24	Calendar Day	763	782	0%	NA	NA											
at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV 18 days		3 5 11/2/24	Calandar Day	764	782	0%	NA	NA											
DN1200 MS Pipe - Pipeline Cleaning and CCTV From DN900 Valve Chamber at CH.FD 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 Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV 18 days	Tue 14/11/23	3 Sun 11/2/24	Calendar Day	764	782	U76	IVA	IVA											
DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV 18 days	Tue 24/10/23	3 Sun 21/1/24	Calendar Day	765	782	0%	NA	NA											
Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV 18 days	Sun 1/5/22	Wed 29/6/22	Calendar Day	767	782	0%	NA	NA											
Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV 18 days																			
DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV 18 days	Sun 9/7/23	Wed 6/9/23	Calendar Day	768	782	0%	NA	NA											
Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE2+11	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							a a				
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										, i	
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	/8,7 787	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											
NS250 HDPE Pipe - Pipeline Cleaning and CCTV Inspection, Sterilization and Water 30 days	Sun 22/1/23	Mon 20/2/23	Calendar Day	784	788	0%	NA	NA											
Sampling - Portion H (Area 137) andover Portion I and Portion H to WSD Region 563 days	ys Tue 21/2/23	Thu 5/9/24	Calendar Day	of a light bullion	Service Services	0%	NA	NA								-			
DN1200 MS Pipe - Portion I & Portion H (Area 137) 30 days	Wed 7/8/24	Thu 5/9/24	Calendar Day	/82		0%	NA	NA											
NS250 HDPE Pipe - Portion H (Area 137) 7 days	Tue 21/2/23	Mon 27/2/23	Calendar Day	785	164	0%	NA	NA								I			
Vater Supply to Tseung Kwan O Desalination Plant at Fill Bank of Tseung Kwan O Area 445 days	ys Tue 7/11/17	Sat 11/5/19	HK Working Da	ay		99%	Tue 7/11/17	NA	V		7								
37 (Portion J)					THE SALES											1			
Issue of CE No. 02 0 days	Fri 16/11/18	Fri 16/11/18	HK Working Da	i y	791	100%	Fri 16/11/18	Fri 16/11/18		♦ 16/1									
Procurement of Major Material 48 days	Sat 17/11/18	8 Thu 3/1/19	Calendar Day	790	792	100%	Sat 17/11/18	Thu 3/1/19											
	Fri 4/1/19	Thu 25/4/19	HK Working Da	av 791	793	100%	Fri 4/1/19	Thu 25/4/19											
Installation of NS250 HDPE Pipe from A to B in accordance with the Drawing No. 89 days 13/WSD/16/SK13 to SK15 and W20203/4A	FII 4/1/19	1110 Z3/4/19	THE WOLKING DE	7 731	755														
Sterilization and Flushing NS250 HDPE Pipe (From T0+00 to T23+64) 4 days	Wed 24/4/19	9 Sun 28/4/19	HK Working Da	ıy 792	794	100%	Wed 24/4/19	Sun 28/4/19			1								
Take Water Sampling 1 day	Mon 29/4/19	.9 Mon 29/4/19	HK Working Da	ay 793	795	100%	Mon 29/4/19	Mon 29/4/19			1								
			-	ay 794	79655	100%	Sat 11 /5 /10	Sat 11/5/10											
Backfill at T23+64 after completion of Water Sampling Test 1 day	Sat 11/5/19	Sat 11/5/19	HK Working Da	1y 794	796FF	100%	Sat 11/5/19	Sat 11/5/19											
Handover Portion J to WSD Region 0 days	Sat 11/5/19	Sat 11/5/19	HK Working Da	ay 795FF		100%	Sat 11/5/19	Sat 11/5/19			♦ 11/5								
1 day	Tue 7/11/17	7 Tue 7/11/17	None			0%	NA	NA											
1 007		,,,								-									
Task Summary Inc		D.																	
rogramme No. 15 Split Project Summary Inv 124 May 2022 Milestone Inactive Task M. Milestone	Inactive Milestone		uration-only	Start-only Finish-only		External Milesto Deadline	one 🌼	Critical Sp Progress	it										





Appendix B

Overview of Mainlaying in Tseung Kwan O





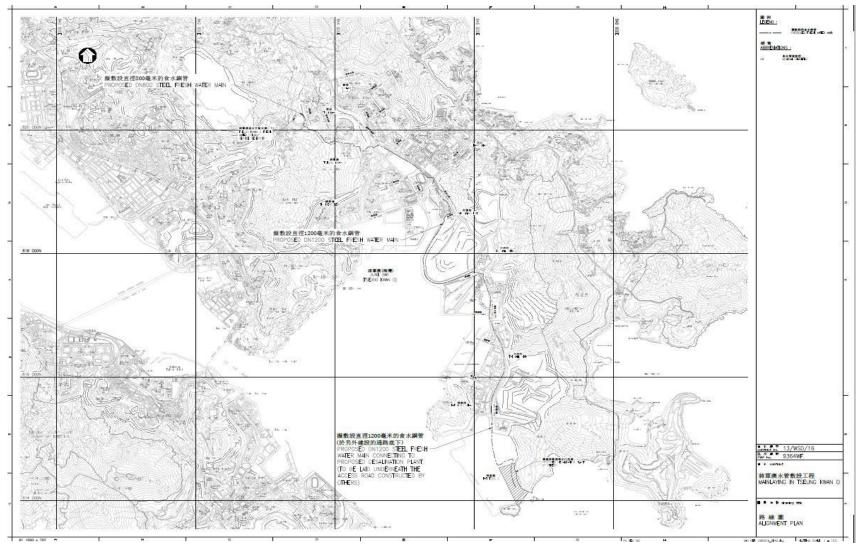


Figure B1. Overview of Mainlaying in TKO





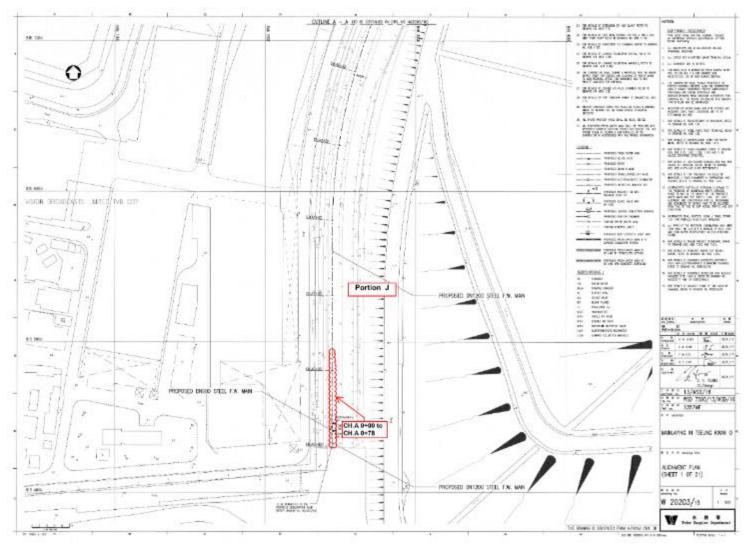


Figure B2. Location Plan for Portion J - CH.A 0+00 to CH.A 0+78





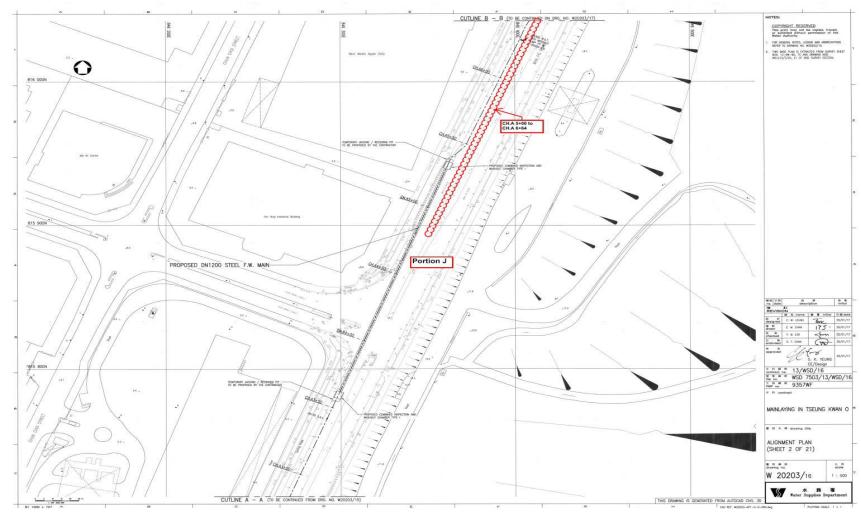


Figure B3. Location Plan for Portion J - CH.A 5+00 to CH.A 6+64





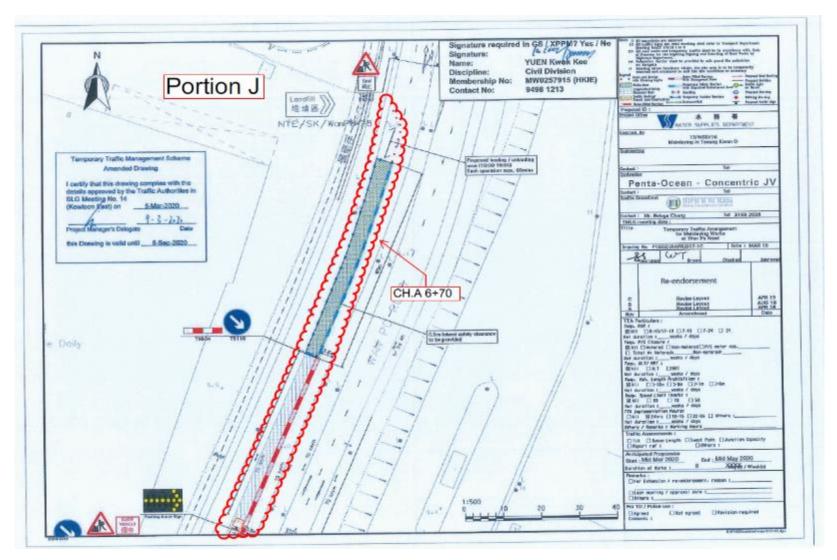


Figure B4. Location Plan for Portion J - CH.A 6+70





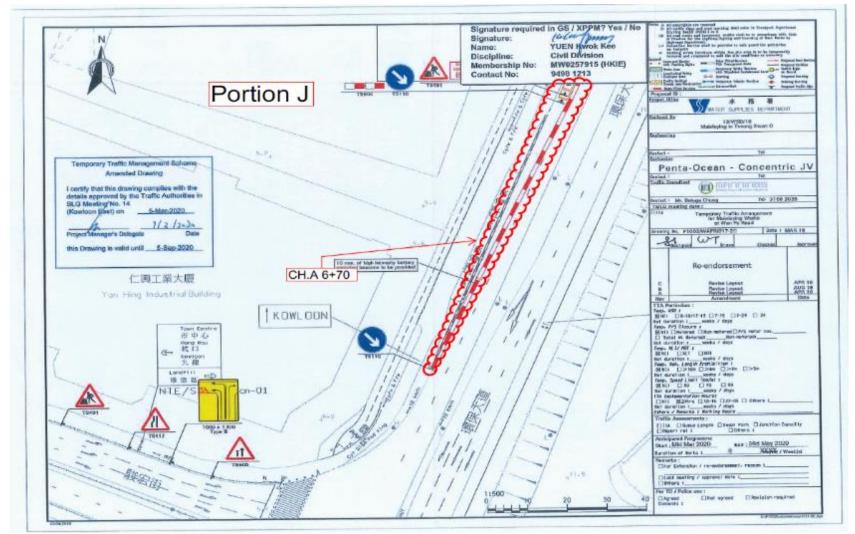


Figure B5. Location Plan for Portion J - CH.A 6+70





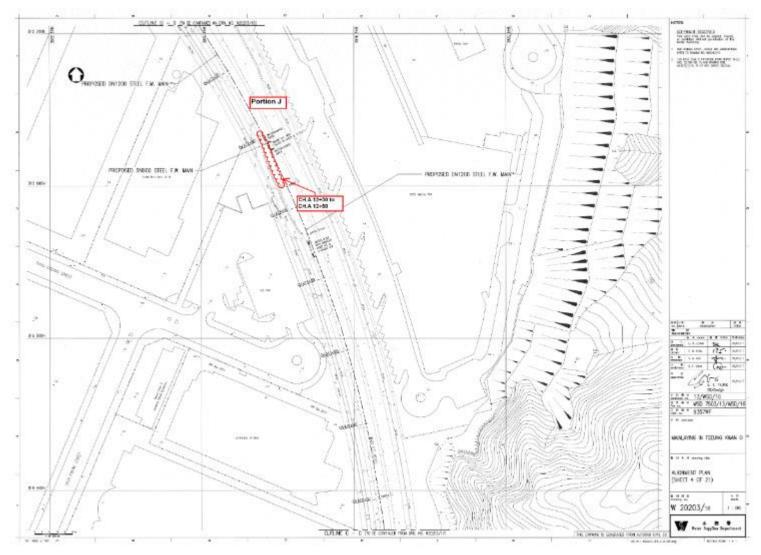


Figure B6. Location Plan for Portion J - CH.A 12+30 to CH.A 12+50

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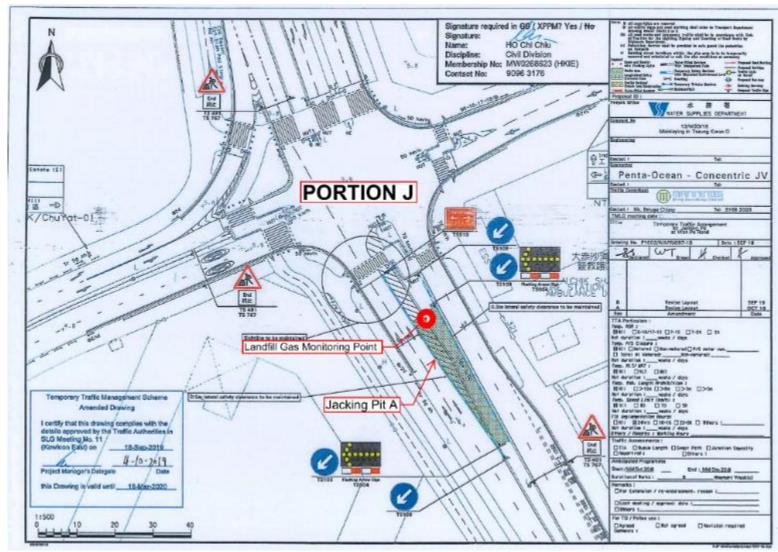


Figure B7. Location Plan for Portion J – CH. A13+50 to CH.A 14+00 (Pit A)





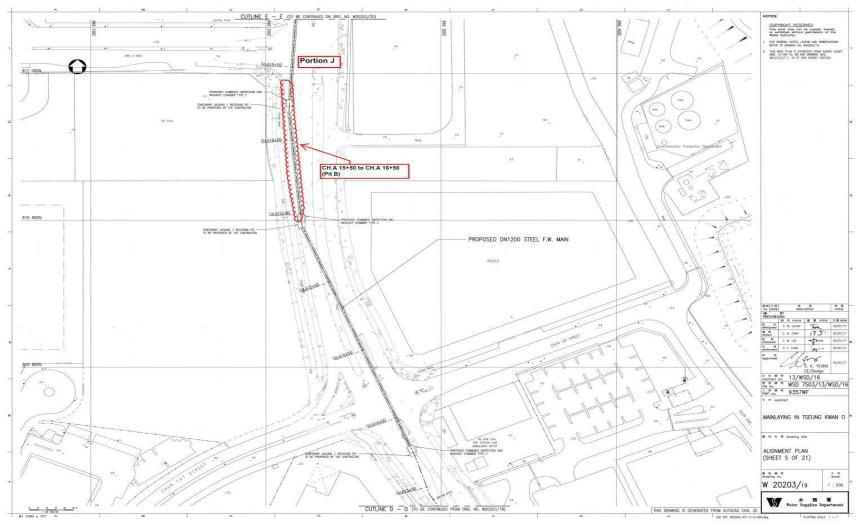


Figure B8. Location Plan for Portion J – CH. A15+50 to CH.A 16+50 (Pit B)





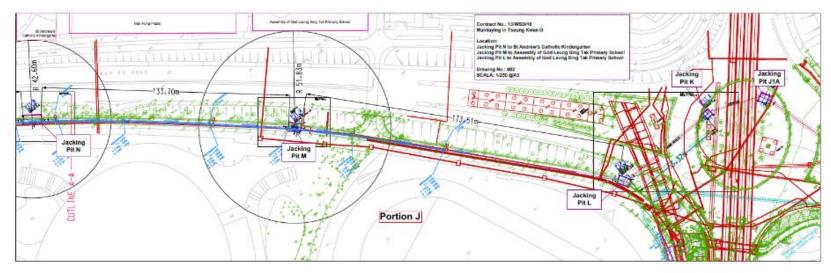


Figure B8a. Location Plan for Portion J – Pit L-M-N, K, J1A

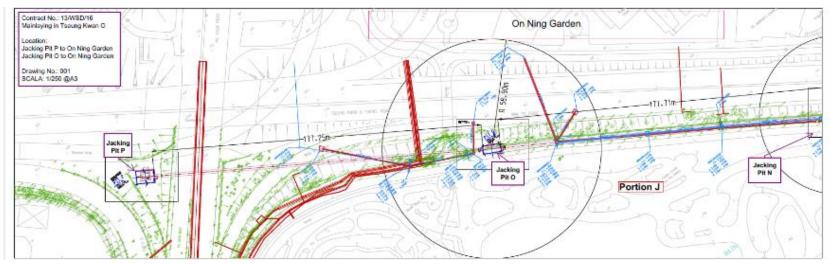


Figure B8b. Location Plan for Portion $J-Pit\ N-O-P$





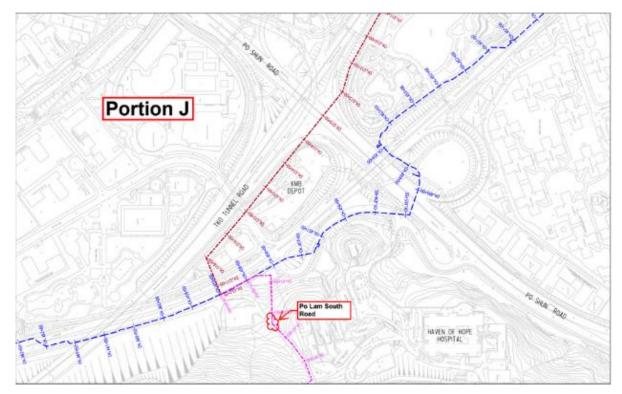


Figure B9a. Location Plan for Mau Wu Tsai 1

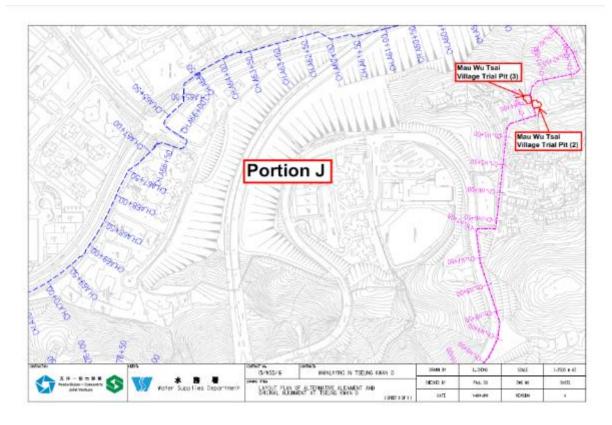


Figure B9b. Location Plan for Mau Wu Tsai 2 & 3





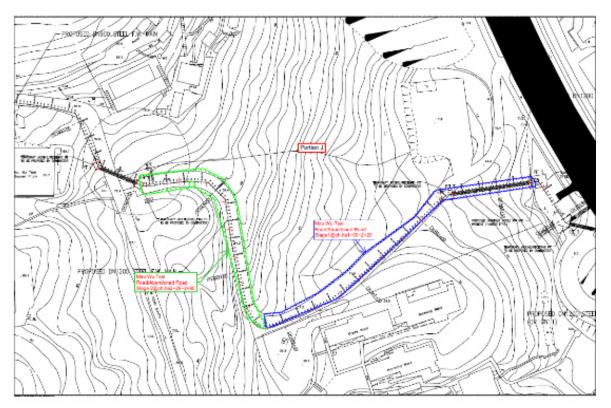


Figure B9c. Abandoned Mau Wu Tsai Road

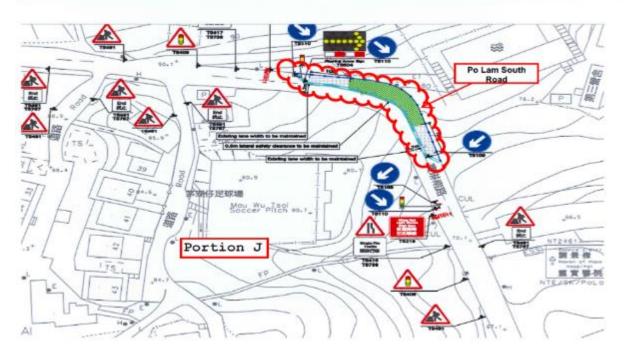


Figure B10. Monitoring Location - Po Lam South Road





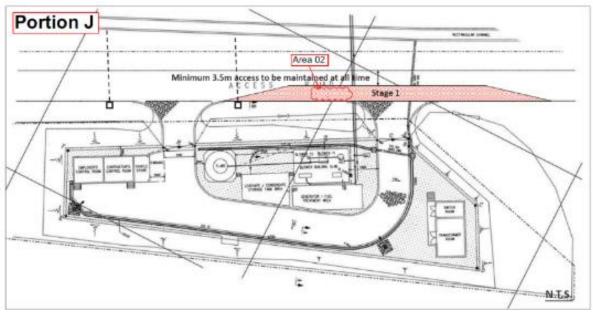


Figure B11. Monitoring Location – Area A02

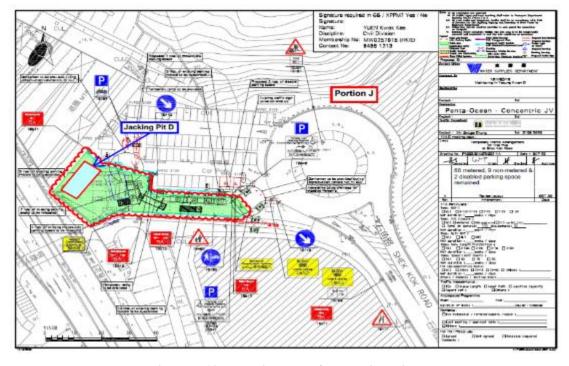


Figure B12. Location Plan for Jacking Pit D





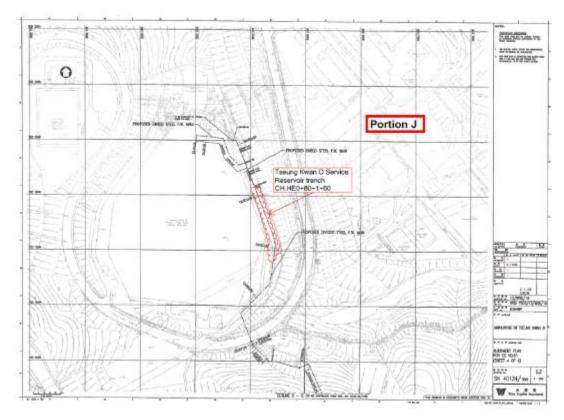


Figure B13. Location Plan for CH.HE0+80-1+60

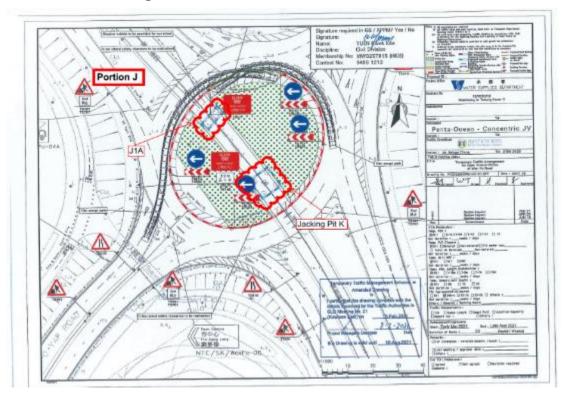


Figure B14. Location Plan for Pit K





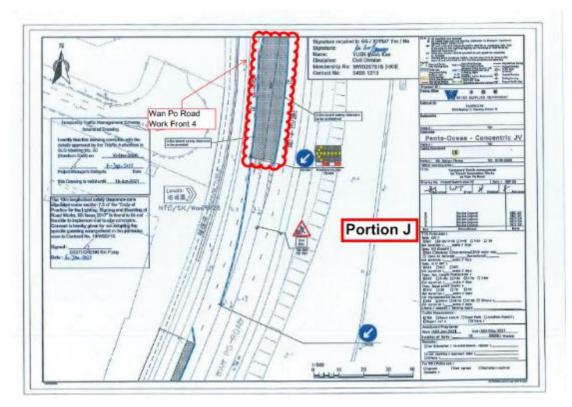


Figure B15. Location Plan for Wan Po Road 4

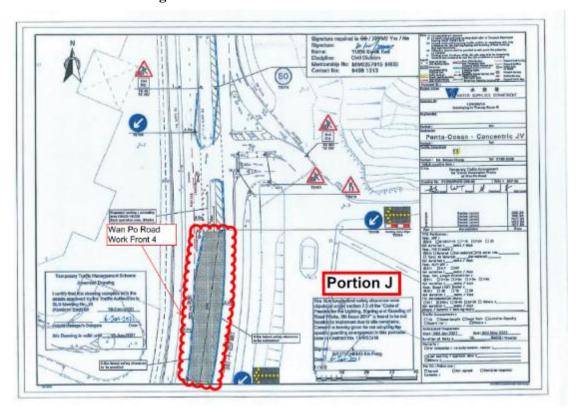


Figure B16. Location Plan for Wan Po Road 4





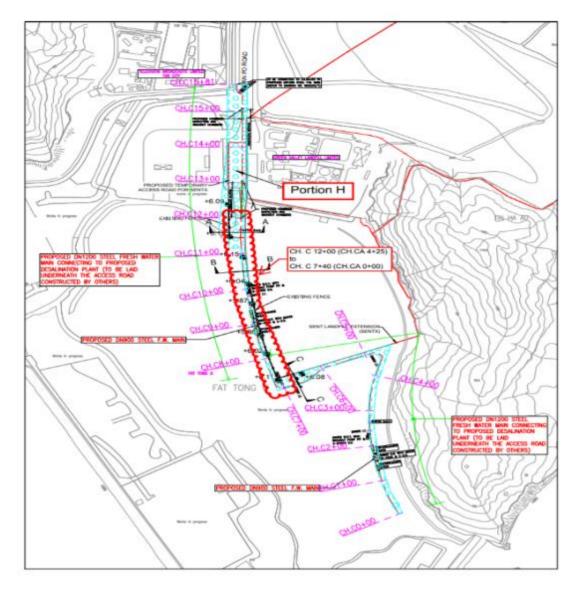


Figure B17. Location Plan for Portion H– CH.C 7+40~CH.C 12+00 (CH.CA 0+00 ~ CH.CA4+25)





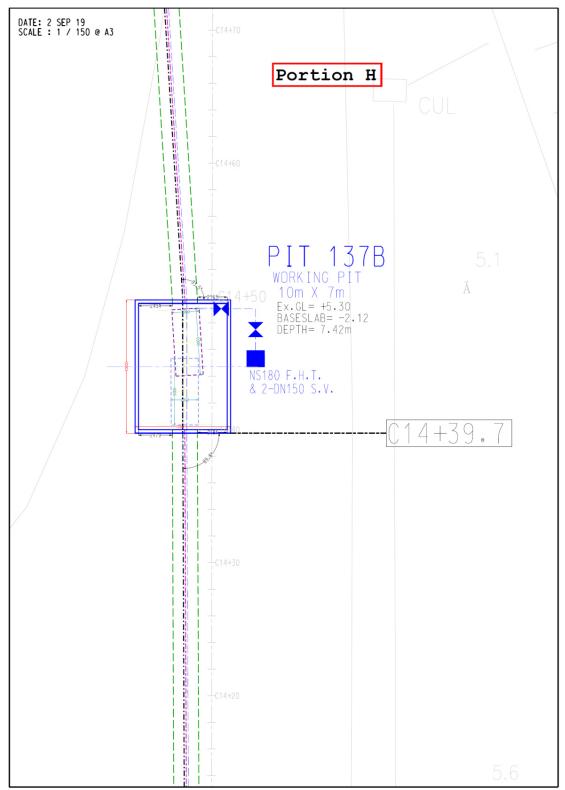


Figure B18. Location Plan for Portion H- Pit 137B





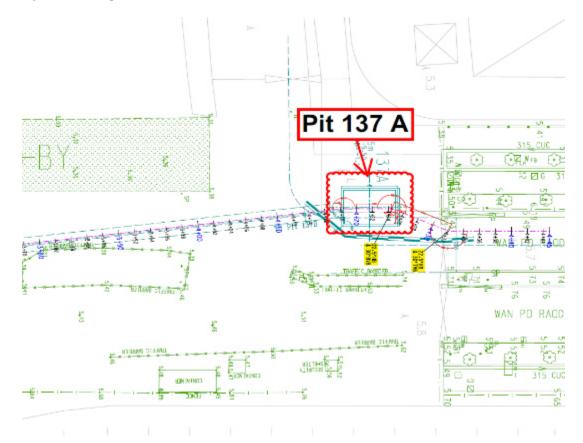


Figure B19. Location Plan for Portion H- Pit 137A

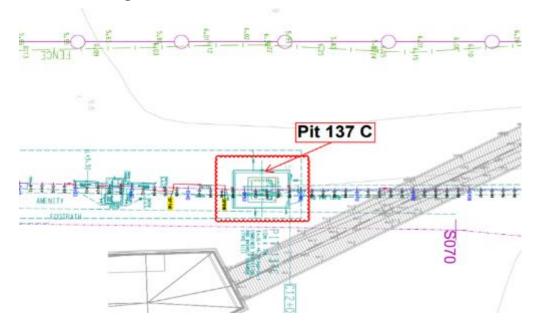


Figure B20. Location Plan for Portion H- Pit 137C





Appendix C

Summary of Implementation Status of Environmental Mitigation





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	lementa Stage	ation	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	C		status	Guidelines
Air Quality					1			
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)		✓		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)		*		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)		✓		Implemented	
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)		*		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)		✓		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)		√		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)		*		Implemented	
S4.8.1	Road sections between vehicle-wash areas and vehicular entrance will be paved.	Land site/ During Construction	Contractor(s)		√		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)	✓	✓		Implemented	





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	lementa Stage	tion	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	C	О	status	Guidelines
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)		*		Implemented	
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)		*		Implemented	Air Pollution Control (Construction Dust)
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)		✓		Implemented	
S4.8.1	All exposed areas will be kept wet always to minimize dust emission.	Land site/ During construction	Contractor(s)		1		Implemented	
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)		✓	√	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)		✓		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)		✓		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)		√		Implemented	-





EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation Agent	Implementa Stage D C		O	Implementation status	Relevant Legislation & 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.	construction	Contractor(s)/ (ET & IEC)		✓		Implemented	-

Note: D – Design stage C – Construction O – Operation





EIA Reference	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation Agent	Imp	lementa Stage	tion	Implementation	Relevant Legislation & Guidelines
	Mitigation Measures	main concerns to address	Agent	D	C	0	status	
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)		✓		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)		1		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)		√		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)		✓		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)		✓		N/A	
S5.7	Use of Quite Powered Mechanical Equipment (QPME).	Noise control/ During construction	Contractor(s)		√		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)		√		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)		✓		Implemented	





EIA Reference	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Impl	lementa Stage	tion	Implementation	Relevant Legislation & Guidelines
Reference	Mitigation Measures	main concerns to address	Agent	D	C	О	status	Guidennes
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)		✓		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 ⁻² may be used for screening the noise from operation of the saw/groover, concrete.	Noise control/ Pre- construction/ During construction	Contractor(s)	•	•		N/A	-
S5.9	Saw cutting 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)	•	•		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)	•	•		Implemented	-
S5.10	A noise monitoring programme shall be implemented for the construction phase.	During construction phase	ET		√		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		1		Implemented	-





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	lementa Stage	tion	Implementation	Relevant Legislation & Guidelines
Reference	8	main concerns to address	Agent	D	C	0	status	Guidennes
Water Qual	· ·		1					
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)		•		Implemented 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)		√		Implemented	-
S6.9	Appropriate surface drainage will be designed and provided where necessary.	Land site & drainage/ During construction	Contractor(s)		✓		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)		✓		Implemented	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)		1		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)		✓		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)		✓		N/A	-





EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation Agent		Implementation Stage D C O		Implementation status	Relevant Legislation & Guidelines
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)	Б	✓	O	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)		√	√	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)		*	✓	Implemented	-
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		✓		Implemented	-





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	olementa Stage	tion	Implementation	Relevant Legislation &
Reference	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)		✓		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)		•		Implemented	-
S8.5	Provision of sufficient waste disposal points and regular collection for disposal.	All area/ During construction/ During operation	Contractor(s)		✓	✓	Implemented	DEVB TC(W) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness.
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)		✓		Implemented	DEVB TC(W) No. 8/2010, Enhanced Specification for Site Cleanliness and 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





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	olementa Stage	ation	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	C	0	Status	Guidelines
S8.5	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.	Land site/ During construction	Contractor(s)		✓		Implemented	Waste Disposal Ordinance (Cap 354)
S8.5	A recording system for the amount of wastes generated/ recycled and disposal sites. The trip- ticket 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)		√		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)		√		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)		1		N/A	-
S8.5	Use of reusable non-timber formwork to reduce the amount of C&D materials.	All areas/ During construction	Contractor(s)		√		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)		1		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)		✓		Implemented	-
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)		√		Implemented	-
S8.5	The management of dredged/ excavated sediment management requirement from ETWB TC(W) No. 34/2002 will be incorporated in the Specification of the Contract Documents.	Marine works/ During construction	WSD/ Contractor(s)		1		Implemented	ETWB TC(W) No. 34/2002 and Dumping at Sea Ordinance (DASO)





EIA Reference	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	lementa Stage	ation	Implementation	Relevant Legislation & Guidelines
Reference	Mitigation Measures	main concerns to address	Agent	D	C	0	Status	Guidennes
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)		✓		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		*		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)		✓		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)		✓		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)		1		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)		√		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)
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)		✓		Implemented	Air Pollution Control (Construction Dust) Regulation (Cap 311R)





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	olementa Stage	ation	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	C	0	Status	Guidelines
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		√	✓	Implemented after observation	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging,
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		✓	√	Implemented	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		✓	√	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		✓	✓	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		✓	✓	Implemented	
S8.5	Storage areas for chemical waste shall have adequate ventilation.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	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		√	√	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		√	*	Implemented	
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		√	✓	Implemented	DEVB TC(W) No. 8/2010 Enhanced Specification for Site Cleanliness and Tidiness.





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	lementa Stage	ation	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	C	О	Status	Guidelines
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 minimise odour, pest and litter impacts.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	-
S8.5	Recycling bins will be provided at strategic locations within the Site to facilitate recovery of recyclable materials (including aluminium can, waste paper, glass bottles and plastic bottles) from the Site. Materials recovered will be sold for recycling.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	~	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)		√		Implemented	-
S8.5	The burning of refuse on construction sites is prohibited by law.	All area/ During construction	Contractor(s)		√		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		✓		Implemented	-





EIA Reference	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	lementa Stage	tion	Implementation	Relevant Legislation & Guidelines
Reference	Mitigation Measures	main concerns to address	Agent	D	C	О	Status	Guidennes
Ecology								
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)		✓		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)/ Environmental Team (ET)		√		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)		*		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)		✓		N/A	-





EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	Im	plemen Stage		Implementation Status	Relevant Legislation & Guidelines
Reference	Witigation Weasures	main concerns to address	rigent	D	С	0	Status	Guidennes
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)	✓	✓	~	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)	✓	✓	√	Implemented	-
\$11.10 & 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: - 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)	✓	✓	✓	Implemented 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. (MM5)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	•	•	•	N/A	DEVB TC(W) No. 10/2013





EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	Im	plement Stage		Implementation Status	Relevant Legislation & Guidelines
		main concerns to address		D	C	0		
Landfill Ga								
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)	•	•	•	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 metre.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	•	•	✓	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)	✓	√	✓	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)	•	•	✓	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)	•	•	√	Implemented	





S12.7 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 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.	All area/ Detailed design/ During construction/ During operation All area/ Detailed design/ During construction/ During operation	Contractor(s) Contractor(s)	*	√	✓ ✓	Implemented
S12.7	Proceed drilling with adequate care and precautions against the potential hazards which may be encountered.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	✓	✓	✓	Implemented
S12.7	Prior to the commencement of the site works, the 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)	~	~	~	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)	•	~	•	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)	✓	✓	✓	N/A





S12.7	The manholes and utility pits within the Project Site and	All area/ Detailed design/	Contractor(s)	✓	✓	✓	Implemented
	along the fresh water mains. Each manhole/ utility pit	During construction/					
	should be monitored with two measurements (at mid	During operation					
	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.						
S12.7	All construction, operation and maintenance personnel	All area/ Detailed design/	Contractor(s)	✓	✓	✓	Implemented
	working on-site as well as visitors should be made aware	During construction/ During					
	of the hazards of landfill gas and its possible presence	operation					
	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.						





Appendix D

Impact Monitoring Schedule of the Reporting Month

Contract No. 13/WSD/16 Mainlaying in Tseung Kwon O Environmental Monitoring Schedule (June 2023)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					2	3
4	5	6	7	8	Impact Noise Monitoring	10
11			14	Impact Noise Monitoring		17
18			Impact Noise Monitoring			24
25	26	Impact Noise Monitoring	28	29	30	





Appendix E

Noise Monitoring Equipment Calibration Certificate

Certificate of Calibration

for

Description:

Sound Level Meter

Manufacturer:

Lutron

Type No.:

SL-4033SD (Serial No.: I.588921)

Submitted by:

Customer:

Acuity Sustainability Consulting Limited

Address:

Unit E, 12/F, Ford Glory Plaza,

Nos. 37-39 Wing Hong Street,

Cheung Sha Wan, Kowloon,

Hong Kong

Upon receipt for calibration, the instrument was found to be:

✓ Within (A-Weighting, 31.5Hz – 8kHz)

Outside

the allowable tolerance.

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 16 March 2023

Date of calibration: 21 March 2023

Date of NEXT calibration: 20 March 2024

Calibrated by: Calibration Technician

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 21 March 2023

Certificate No.: APJ22-157-CC002

MA TESTING LABORATOR

(A+A) *L

Page 1 of 4

Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

1. Calibration Precaution:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Conditions:

Air Temperature:

22.0 °**C**

Air Pressure:

1006 hPa

Relative Humidity:

61.8 %

3. Calibration Equipment:

Type

Serial No.

Calibration Report Number

Traceable to

Multifunction Calibrator

B&K 4226

2288467

AV220061

HOKLAS

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Sett	ing of Uni	t-under-t	est (UUT)	Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.2	±0.4

Linearity

Setting of Unit-under-test (UUT)			App	lied value	UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.2	Ref
30-130	dBA	SPL	Fast	104	1000	104.3	±0.3
				114		114.3	±0.3

Time Weighting

Sett	Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.2	Ref
30-130	UBA	SPL	Slow	94	1000	94.2	±0.3

Certificate No.: APJ22-157-CC002



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Frequency Response

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	54.0	-39.4 ±2.0
					63	67.2	-26.2 ±1.5
					125	77.7	-16.1 ±1.5
					250	85.5	-8.6 ± 1.4
30-130	dBA	SPL	Fast	94	500	91.1	-3.2 ±1.4
					1000	94.2	Ref
					2000	95.0	+1.2 ±1.6
					4000	94.0	$+1.0\pm1.6$
					8000	90.1	-1.1+2.1; -3.1

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	92.1	-3.0 ±2.0
					63	94.4	-0.8 ±1.5
					125	95.1	-0.2 ±1.5
					250	95.2	-0.0 ± 1.4
30-130	dBC	SPL	Fast	94	500	94.9	-0.0 ±1.4
					1000	94.2	Ref
					2000	93.6	-0.2 ±1.6
					4000	91.9	-0.8 ±1.6
					8000	87.9	-3.0 +2.1: -3.1

(A+A)*L

Page 3 of 4



Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.15
	63 Hz	± 0.10
	125 Hz	± 0.10
	250 Hz	± 0.05
	500 Hz	± 0.10
	1000 Hz	± 0.05
	2000 Hz	± 0.10
	4000 Hz	± 0.15
	8000 Hz	± 0.10
104 dB	1000 Hz	± 0.10
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.

MR TESTING LABORATOR (A+A) *L

Page 4 of 4

Certificate No. D224646E



CALIBRATION CERTIFICATE

Product

: SOUND CALIBRATOR

Type

: NC-75

Serial number

35124529

Manufacturer

RION CO., LTD.

Calibration quantities

: Sound pressure level (with reference standard microphone)

Calibration method

: Measured by specified secondary standard microphone

according to JCSS calibration procedure specified by RION.

Ambient conditions

: Temperature 23.9 °C, Relative humidity 49 %.

Static pressure 100.6 kPa

Calibration date

02/11/2022 (DD/MM/YYYY)

Calibration location

3-20-41 Higashimotomachi, Kokubunji, Tokyo 185-8533, Japan

RION CO., LTD. Calibration Room

We hereby certify that the results of this calibration were as follows.

Issue date: 09/11/2022 (DD/MM/YYYY)

Junichi Kawamura

Manager

Quality Assurance Section, Quality Assurance Department, Environmental Instrument Division,

RION CO., LTD.

3-20-41 Higashimotomachi, Kokubunji,

Tokyo 185-8533, Japan

This certificate is based on article 144 of the Measurement Law and indicates the result of calibration in accordance with measurement standards traceable to Primary Measurement Standards (National Standards) which realizes the physical units of measurement according to the International System of Units (SI).

The accreditation symbol is attestation of which the result of calibration is traceable to Primary Measurement Standards (National Standards).

The certificate shall not be reproduced except in full, without the written approval of the issuing laboratory.

The calibration laboratory who issued this calibration certificate conforms to ISO/IEC 17025:2017.

This calibration certificate was issued by the calibration laboratory accredited by IAJapan who is a signatory to the Mutual Recognition Arrangement (MRA) of International Laboratory Accreditation Cooperation (ILAC) and Asia Pacific Accreditation Cooperation (APAC). This (These) calibration result(s) may be accepted internationally through ILAC/APAC MRA.



Certificate No. D224646E

CALIBRATION RESULT

1. Sound pressure level (with reference standard microphone)

Measured	Expanded
value	uncertainty *1
93.99 dB	0.09 dB

Specified secondary standard microphone:

: 4160

Serial number : 2973341

Reference Sound pressure: 2×10⁻⁵ Pa

*1 Defines an interval estimated to have a level of confidence of approximately 95 %.

Coverage factor k=2

Calibration result is the calibration value in ambient conditions during calibration.

BE OUT OF JCSS CALIBRATION

1. Frequency

Measured	Measurement
value	uncertainty
varue	(k=2)
1000.0 Hz	$2.7 \times 10^{-4} \mathrm{Hz}$

Working measurement standard universal counter:

Type

: 53132A

Serial number : MY40005574

(JCSS Calibration Certificate No. 2208001889940)

2. Total distortion

Measured	
value	
0.2 %	

Working measurement standard distortion meter:

Type

: VA-2230A

Serial number : 11076061

(A2LA Calibration Certificate No. 1502-03109)

· closing ·







Appendix F

Event / Action Plan for Noise Exceedance





Event and Action Plan for Construction Noise Monitoring

Event	Act	ion						
	ET		IEC		ER		Co	ntractor
Action Level		Carry out investigation to identify the source and cause of the complaint/ exceedance(s) Notify IEC, ER, and Contractor and report the results of investigation to the Contractor, ER and the IEC Discuss with the Contractor and IEC for remedial measures required 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		Review the analyzed results submitted by the ET Review the proposed remedial measures by the Contractor and advise the ER accordingly Supervise the implementation of remedial measures	 2. 3. 	Confirm receipt of Notification of Exceedance in writing Require Contractor to propose remedial measures for the analysed noise problem Ensure remedial measures are properly implemented	1.	Submit noise mitigation proposals if required, to the IEC and ER Implement noise mitigation proposals.
nit Level		1. Notify IEC, ER, EPD and Contractor 2. Identify the source(s) of impact by reviewing all the relevant monitoring data and the corresponding construction activities. Exceedances should also be confirmed by immediate verification in the field as far as practical. 3. Repeat measurement to confirm findings 4. Increase monitoring frequency 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. inform IEC, ER and EPD the cause & actions taken for the exceedances 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD ER informed of the results 8. If exceedance stops, cease additional monitoring.	g ed. t	Discuss amongst ER, ET, and Contractor on the potential remedial actions Review Contractor's remedial actions to assure their effectiveness and advise the ER &ET accordingly Supervise the implementation of the remedial measures	2. 3. 4. 5.	Confirm receipt of notification of exceedance in writing Notify Contractor Require Contractor to propose remedial measures for the analyzed noise problem Ensure remedial measures are properly implemented If exceedance continuous, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is aborted	2. I 3. I 4. I 5. S	Take immediate action to avoid furth exceedance identify practicable measures to minimize the noise impact. Submit proposals for remedial actions to ER within three working days of notification implement the agreed proposals Resubmit proposal if problem still nounder control. Stop the relevant portion of works as determined by the ER until the exceedance is abated





Appendix G

Noise Monitoring Data





 Table G 1
 Summary of Noise Monitoring Result

					Leq-5min	, dB(A)			Leq-30min,	L _{10-30mins} ,	L _{90-30mins}	Limit	
Date	Time	Weather	Reading (1)	Reading (2)	Reading (3)	Reading (4)	Reading (5)	Reading (6)	dB(A)	dB(A)	dB(A)	Level, dB(A)*	Noise Meter
09/07/2023	11:22 11:52	Fine	67.2	66.8	65.3	65.7	66.9	65.8	66.3	72.9	62.7	70.0	Lutron, SL- 4033SD
15/07/2023	10:45 11:15	Cloudy	65.7	64.2	65.7	66.9	66.1	65.9	65.8	72.7	63.8	70.0	Lutron, SL- 4033SD
21/07/2023	10:30 11:00	Fine	67.4	66.4	65.6	65.2	65.3	64.8	65.9	74.3	62.4	70.0	Lutron, SL- 4033SD
27/07/2023	10:25 10:55	Fine	66.9	65.7	65.4	66.9	68.3	65.4	66.6	73.7	62.4	70.0	Lutron, SL- 4033SD

Remarks:

^{*}No examinations were scheduled for NSR4 Creative Secondary School in the reporting month.





Appendix H

Waste Flow Table





Appendix H - Waste Flow Table

	Ac	tual 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 ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in'000kg)	(in'000kg)	(in'000kg)	(in'000kg)	(in '000m ³)
Jan 2023	0.542	0.015	0.122		0.420	0.389		0.052			0.002
Feb 2023	1.213	0.076	0.206		1.007	1.044		0.055			0.000
Mar 2023	1.093	0.045	0.188		0.905	1.382		0.059			0.005
Apr 2023	1.484	0.000	0.363		1.121	1.796		0.056			0.001
May 2023	1.819	0.022	0.386		1.433	0.934		0.051			0.006
Jun 2023	1.400	0.011	0.574		0.826	0.613		0.052			0.007
Sub-total	7.551	0.169	1.839	0.000	5.712	6.196	0.000	0.325	0.000	0.000	0.021
Jul 2023											
Aug 2023											
Sep 2023											
Oct 2023											
Nov 2023											
Dec 2023											
Total	7.551	0.169	1.839	0.000	5.712	6.196	0.000	0.325	0.000	0.000	0.021

Notes:

¹⁾ 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.





Appendix I

Landfill Gas Monitoring Equipment Calibration Certificate



香港新界葵涌葵昌路58-70號永祥工業大廈10樓B室

Unit B, 10/F., Wing Cheung Industrial Building, 58-70 Kwai Cheong Road, Kwai Chung, New Territories, HK Tel: (852) 2751 7770 Fax: (852) 2756 2051 E-mail: rotter@rotter.com.hk

Calibration Report - Gas Detector

PGM-2500	(ORAE III)	LEI	102/CC)/H2S
----------	------------	-----	--------	-------

ı	J	N	J	I	T	ı	P	J	F	0	R	N	Л	Δ	T	1	0	1	J	•
•	•		w					A		-	U.	м		•			~			

Customer:	Penta Ocean Construction Co Ltd	Serial # :	M02A001708	Model:	QRAE III
		Firmware :	V2.12	Sensor:	LEL/O2/CO/H2S
		Cal date :	28-Jul-2022	Inspected:	Teddy

SENSOR DATA:

	LEL sensor (ME)	O2 sensor	CO sensor (Tox1)	H2S sensor (Tox2)
Calibration dates:	28-Jul-2022	28-Jul-2022	28-Jul-2022	28-Jul-2022
After Calibration levels	50%	18.00%	50 ppm	10.0 ppm
Alarm levels (Low):	10.00%	19.50%	35 ppm	10 ppm
Alarm levels (High):	20.00%	23.50%	200 ppm	20 ppm
TWA Level:			35 ppm	10 ppm
STEL Level :			100 ppm	15 ppm

Status:					
Pump Speed	Low	Back Light	Manual		
Clock	Yes	Measure	Average		

LEL Gas Selection

LEL Calibration Gas	Methane	LEL measurement Gas	Methane	
LEL Custom Gas	LEL_custom_gas	LEL Custom Factor	1.0	

Gas types used : 4-Gas Mix: (18% O2, 50ppm CO, 10ppm H2S, 50% LEL CH4, BAL N2)	Gas lot #WO350201-3	
*** Fresh Air Calibration is highly recommended to proceed prior for measurement each time.		

Replaced Parts:

Notes: The unit was calibrated and checked under good working condition

**Next calibration due on or before 27 July 2023

Serviced by_ Teddy Wong Rotter International Ltd

PROMAT (HK) LTD

寶時(香港)有限公司

901 New Trend Centre, 704 Prince Edward Road East, San Po Kong, Kowloon, HK Tel.: 2661 2392 Fax.: 2661 2086 email : sales@promat.hk http://www.promat.hk/



VERIFICATION CERTIFICATE OF CO2 Analyzer

Report No.

: 22040

Date

: 17/11/2022

Client

: Penta Ocean Concentric JV

EQUIPMENT TO BE VERIFIED

Equipment Name

: CO2 Analyzer

Supplier

: TES

Model No.

: 1307H

Serial No.

Date of Verification

: 200901259 : 17/11/2022

Due Verification

: 16/11/2023

VERIFICATION DEVICES USED

Reference Equipment

: CO2 in N2

CO2 in N2

Supplier

: NorLab

NorLab

Model No.

: H1013500PN

H1013.3VN

Lot #

: 0-353-790

1-006-27

Expiry date

: 12/2/2024

10/3/2025

Accuracy

: Within +/-2%

Within +/-2%

ENVIRONMENTAL CONDITION

Ambient Temp

: 25°C

Relative Humidity

: 57%

Verification Result

illeation Result		
Test Number	Concentration (Mole%)	Results
Test 1	500ppm	505ppm
Test 2	0.50%	0.52%

Remarks

- 1 The Gas reference used in this verification has traceable accuracy to Manufacturer Standard
- 2 The above equipment was operated by the competent person
- 3 Promat is Registered ISO9001;2015 Quality Management System in Sales, Repair and Calibration Services

Certification

Verification by

Checked by

Mr. Hei Kong / Technical Engineer

Ms. Ning Lee / Service Coordinator

Calibration C	ertificate
Cert. Ref. No.: BW/XT/3RD/17974	Date: 2022 09 02
Renopipe Construction Company Limited	Purchase Order No.: SME-C-20-21-6/2020-76554
九龍觀塘海濱道133號萬兆豐中心6樓K2室	Date 2020 07 07 INVOICE NO: AP
	Email: damonhuang@renopipe.com.hk

Fax: 3998 3225

Gas Detector Model: XT-XWHM-Y-OR Pump S/N: 420373 Serial No.: MA220-012709 Calibration Record:

Tel: 3998 3193

Inpection before calibration	Visual inspection	Functional Test
Basic Unit - Case, Clip & Display etc.	OK	OK
Battery and charge etc.	OK	OK
Motorized Pump	OK	OK
Other items		

Type of Sensor	Expiry Date
Oxygen Sensor	
CO & H2S Sensor	
Combustible(LEL) Sensor	

Type of calibration	Date of calibration	H2S (ppm)	CO (ppm)	O2 (%)	LEL (%)
3rd Calibration	2022 09 02	25	100	18	50
Result of Calib	oration	ОК	ок	ок	ОК

F.O.C Calibration Cost: (As per attached invoice)

Calibration remarks: Oxygen sensor replaced by new one

Customer: Renopipe Construction

Attn: Damon Huang

User Details:

Warranty: Oxygen Sensor 1 years warranty

Next calibration date of this instrument will be :

2023

09

02

Mobile Phone

IMPORTANT NOTES TO BW GAS DETECTOR USERS

USERS MUST READ THE OPERATOR'S MANUAL THOROUGHLY BEFORE OPERATING THIS EQUIPMENT AND FOLLOW THEIR OWN SAFETY SUPERVISOR'S INSTRUCTION TO WORK.

All gas detection instrumentation on the market requires periodic calibration to accurately measure gas. Calibration is only as accurate as the test gas used. BW Technologies quality test gases are made to the highest accuracy and trace-ability to N. I.S.T. Standards.

Calibrated By:

Sara Tse

Service Hotline: 2592 2120 Ms. Tse - Service Dept.

Asia Pacific Industrial Safety Equipment

Asia Technologies





Appendix J

Landfill Gas Monitoring Data

Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PAM-200 (QRAE III)	28/7/2002
13 <i>07H</i>	17/11/2022

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
	* *		Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)		p (°C) / ire (mbar)	Remark Depth (m)
RE A	1-6-2023	2023 08:30	Rehy	0	C	0	20.9	28 /	Gag	G
		13:30	-/	0	0	0	20.9	30 /	999	G
		1/2 30	-,	0	Ð	0	20.9	30 1	999	Cj
								1	,	
									1	
								/		
									,	
								1	,	
									/	
***************************************									/	
									/	
									1	
								1	/	

Name & Designation

Signature

Date

Field Operator:

MAK KA CHUN

色

1/6/2023

Laboratory Staff:

Checked by:

Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PAM-200 (QRAE III)	28/7/2002
1357H	17/11/2022

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Pit A	2/6/2027	09:30	Canny	0	С	0	20.9	30 / 999	G
		13:30	-,	0	0	0	20.9	32 / 999	G
		16:30	~)	0	D	0	20.9	32 / 999	Cj
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Name & Designation

Signature

Field Operator:

MAK KA CHUNI

(E

<u>Date</u> 2/6/2023

Laboratory Staff:

Checked by:

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PAM-200 (QRAE III)	28/7/2002
1307H	17/11/2022

Sample location	Date of measurement				Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)			
PH A	3/6/2023	08:30	Summi	0	0	0	20.9	30/999	9			
		13:30	-,/	0	0	0	20.9	72 / 999	G			
		1/2 30	7	0	D	0	20.9	32/ 999	G			
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Signature

<u>Date</u>

Field Operator:

MAK KA CHUN

佳

3/6/2023

Laboratory Staff:

Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

orated	Dates calibrate	Sampling equipment used:
9)2	28/7/2002	PAM-200 (QRAE III)
220	17/11/2022	13.57 <i>H</i>
	17/11/2	13:3 7 71

Sample location	Date of measurement		Sampling time			Monitoring v	vells / Surface	Gas Emission		
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Pit A	5/6/2023	08:30	Cum	0	C	0	20.9	30 / 999	9	
		13:30	-,/	0	0	0	20.9	31 / 999	9	
		1/3:30	٠,	0	0	0	20.9	31 / 999	G	
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J. 100								/		
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Name & Designation	Signature	<u>Date</u>
MAK KA CHUN	金	5/6/2023

Field Operator:

MAK KA CHUN

Laboratory Staff:

Mainlaying in Tseung Kwan O Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2000 (ORAE III)	28/7/2002
1357 <i>H</i>	17/11/2022

Sample location		Date of measurement	Sampling time			Monitoring w	vells / Surface	Gas Emission		
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Pit A	7/6/2023	08:30	Rainy	0	C	0	20.9	29/ 999	G	
		13:30	٠,	0	0	0	20.9	79/ 999	9	
		16:30	7	0	D	0	20.9	29/999	q	
								 		
								1		
								 		
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	Name & Designation	Signature	<u>Date</u>
Field Operator:	IMAK KA CHUN	(Fig.	7/6/2023

Laboratory Staff:

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PAM-2000 (ORAE III)	28/7/2002
13a7H	17/11/2022

Sample location	Date of measurement	Sampling time								
			Weather condition		Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	-	("C) / re (mbar)
PH A	6/6/2013	08:30	Pashy	0	С	0	20.9	28 /	999	G
		13:30	د,′	0	0	0	20.9	28 /	999	Ġ
		1/32 30	<u>.,</u>	0	D	0	20.9	28 /	499	G
							•	1		
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Name & Designation	<u>Signature</u>	<u>Date</u>
HAK KA CHUN	(*)	0/6/2023

Laboratory Staff:

Field Operator:

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PAM-2000 (ORAE III)	28/7/2002
1307H	17/11/2022

Sample location	Date of measurement	Sampling time							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
RY A	8/6/2023	OR: 30	Ram	0	С	0	20.9	ZZ / 999	Ģ
		13:30	-, '	0	0	0	20.9	29 / 999	q
		1/32 30	-,	0	D	0	20.9	29 / 999	Cj
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Name & Designation	Signature	<u>Date</u>
MAK KA CHUN	(fc	8/6/202

Field Operator:

Laboratory Staff:

Mainlaying in Tseung Kwan O Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring –Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

librated
20)2
2022

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp ("C) / Pressure (mbar)	Remark Depth (m)
PHA	01/6/2023	०त्रः ३०	Roshu	0	C	0	20.9	28 / 999	9
		13:30	4	0	0	0	20.9	29 / 999	G
		1/3:30	٠,	0	D	0	20.9	29/ 999	G
								/	
								/	
								1	
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								/	
								/	

Name & Designation	Signature	Date
MAK KA CHUN	(to	9/6/2013

Field Operator:

Laboratory Staff:

Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PAM-2500 (QRAE III)	28/7/2022
1307H	17/11/2022

Sample location	Date of measurement	Sampling time								
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
PH A	10/6/2023	08:30	Raily	0	0	0	20.9	28 / 999	G	
		13:30		0	0	0	20.9	79 / 999	G	
		1/2 30	7	0	D	0	20.9	79/ 999	Cj.	
								1		
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Name	X.	Dŧ	2512	ma	tion

Signature

Field Operator:

MAK KA CHUN

(1/2

<u>Date</u> 10/6/2023

Laboratory Staff:

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PAM-200 (QRAE III)	28/7/2002
1357H	17/11/2022

Sample location	Date of measurement	Sampling time							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp ("C) / Pressure (mbar)	Remark Depth (m)
Pit A	12/1/2023	०१: ३०	Sunny	0	C	0	20.9	29/099	Ç
		13:30	V.	0	0	0	20.9	32/999	G
		16:30	~,	0	D	9	20.9	30/959	Cj
								1	
								1	
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					<u> </u>			/	

	Name & Designation	<u>Signature</u>	<u>Date</u>
Field Operator:	MAK KA CHUN	当传	12/6/2023
Laboratory Staff:			

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PAM-2000 (QRAE III)	28/7/2002
1307H	17/11/2022

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
PRA	17/6/2023	08:30	Restry	0	С	0	30.9	28 / 499	9
		13:30		O	0	0	20.9	29/ 4	Ġ
		16:30	()	0	D	0	20.9	79/ 7	G
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Name & Designation	<u>Signature</u>	<u>Date</u>
MAK KA CHUN	俊	13/6/2023

Laboratory Staff:

Field Operator:

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring –Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28/7/2002
1307H	17/11/2022

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Pit A	14/6/22	09:30	Rashv	0	C	0	20.9	28 / 999	G
		13:30	-,	0	0	0	20.9	78/ 1	9
		1/3:30		0	D	9	20.9	28/	q
		-						//	
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								1	
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Name & Designation	Signature	<u>Date</u>
MAK KA CHUN	(1/2	14/6/2023

Laboratory Staff:

Field Operator:

Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PAM-200 (QRAE III)	28/7/2002
1307H	17/11/2022

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) Pressure (mb	
Pie A	14/6/203	08:30	Rainy	0	C	0	20.9	28 / 999	G
		13:30	~	0	0	0	20.9	79/	G
		1/32 30	7	0	D	0	20.9	29/ 5	c_{j}
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Name & Designation	Signature	<u>Date</u>
MAK KA CHUN	(45	15/6/2023

Field Operator:

Laboratory Staff:

Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PAM-2000 (ORAE III)	28/7/2002
1357H	17/11/2022

Sample location	Date of measurement	Sampling time	ling Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
PEA	11.16/2023	09:30	Rainy	0	C	0	20.9	28/99	9
	7-0	13:30	٠,	0	0	0	20.9	7.8 / -	G
		16:30	77	0	D	0	20.9	29/ ~	G
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Name & Designation	Signature	<u>Date</u>
MAK KA CHUN	(Line)	16/6/2023

Laboratory Staff:

Field Operator:

Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PAM-2000 (ORAE III)	28/7/2002
130 <i>7H</i>	17/11/2022
	1111111222

Sample location	Date of measurement	Sampling time							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
PH A	17/6/2023	OS: 30	Rainy	0	0	0	20.9	27 / 989	9
		13:30		0	0	0	20.9	7A / -1	Ġ
		1/230	h**7	0	D	0	20.9	28/ -	C _i
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	Name & Designation	<u>Signature</u>	<u>Date</u>
Field Operator:	MAK KA CHUN	(2	17/6/2023
I about and Staffe			

Laboratory Staff:

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PAM-2000 (QRAE III)	28/7/2002
13a7H	17/11/2022

Sample location	Date of measurement	Sampling time							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp ("C) / Pressure (mbar)	Remark Depth (m)
PH A	19/6/2017	09:30	Swimmy	0	0	0	20.9	28/999	Ç
		13:30	1 .,	0	0	0	20.9	29/ 4	9
		1/3:30	57	0	0	Ø	20.9	79/ 4	9
								/	
								/	
								1	
								 	

	Name & Designation	Signature	<u>Date</u>
Operator:	HAK KA CHUN	俊	19/6/2013

Laboratory Staff:

Checked by:

Field

Mainlaying in Tseung Kwan O Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2000 (QRAE III)	28/7/2002
1307H	17/11/2022

	Date of measurement	Sampling time	ling Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mba	
Pit A	20/6/2023	०१: ५०	Swans	0	0	0	20.9	79/989	9
112 4	201830023	13:30	6,	0	0	0	20.9	70/ 0	G
		1/32 30	5	0	D	0	20.9	30 / .,	9
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Name & Designation	<u>Signature</u>	<u>Date</u>
MAK KA CHUN	CE.	20/6/2023

Laboratory Staff:

Field Operator:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring –Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PAM-2000 (ORAE III)	28/7/2002
1307H	17/11/2022

Sample location	Date of measurement	Sampling time							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
BEA	21/6/2023	OS: 30	Syanom	0	С	0	20.9	29/ 999	Ç
		13:30	٠, ′	0	0	0	20.9	31/ 1.	G
		1/230	1. 7	0	D	0	20.9	30/ 5	4
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Name & Designation	Signature	<u>Date</u>
MAK KA CHUN	1/45	21/6/2013

Field Operator:

Laboratory Staff:

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2000 (ORAE III)	28/7/2002
1307H	17/11/2022

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)		re (mbar)	Remark Depth (m)
Pie A	23/6/2023	०तः ३०	Raine	0	0	0	20.9	29/	535	Ç
		13:30		0	0	0	20.9	29/		G
		1/2:30	5	0	D	0	20.9	29/	٠,	CI
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Name	X	Designation

Signature

Field Operator:

MAK KA CHUN

俊

<u>Date</u> 23/6/2023

Laboratory Staff:

Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2000 (QRAE III)	28/7/2002
13074	17/11/2022

Sample location	Date of measurement	Sampling time								
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp ("C) / Pressure (mbar)	Remark Depth (m)	
BE A	24/6/2723	08:30	Reiny	0	0	0	20.9	29 / 999	G	
		13:30	-,'	0	0	0	20.9	29/ -	G	
		1/2 30	~7	0	D	0	20.4	29/ 4	Cj	
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			-	-			 	/		
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Name &	& Designation
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Signature

Field Operator:

MAK KA CHUN

<u>Date</u> 24/6/2023

Laboratory Staff:

Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Dates calibrated
28/7/2002
17/11/2022

Sample location	Date of measurement	Sampling time								
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
PH A	26/6/2023	o तः क	Swany	0	0	0	20.9	29 / 999	G	
		13:30		0	0	0	20.9	30 / 4	G	
		1/2 30	U)	0	D	0	20.4	50 / -	Cj	
								/	·	
								/		
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								/		
			-					/		
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Name	&	Des	igi	nation

Signature

Field Operator:

MAK KA CHUN

(45

<u>Date</u> 26/6/2013

Laboratory Staff:

Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PAM-2000 (QRAE III)	28/7/2002
13a7H	17/11/2022

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
BE A	27/6/2023	08:30	Singers:	0	С	0	20.5	29/ 585	G	
		13:30	ι,/	0	O	0	20.9	3// 2:	G	
		1/32 30	5	D	D	0	20.4	30/ 5	CI	
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	Name & Designation	Signature	<u>Date</u>
Field Operator:	IYAK KA CHUN	(te	27/6/2023

Laboratory Staff:

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2000 (QRAE III)	28/7/2002
13074	17/11/2022

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp	(°C) / e (mbar)	Remark Depth (m)
BY A	28/6/2023	08:30	Sunny	0	С	0	20.9	29/	999	Ç
		13:30	1,	0	0	0	20.9	31/	-,	G
		1/32 30	7	0	D	0	20.4	30/	-,	G
								/		
				•				/		

Name & Designat	ion
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Signature

Field Operator:

MAK KA CHUN

<u>Date</u> 28/6/2013

Laboratory Staff:

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Dates calibrated
28/7/2002
17/11/2022

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp ("C) / Pressure (mbar)	Remark Depth (m)	
P.E A	29/6/2023	08:30	Sunny	0	0	0	20.9	201 1 069	G	
		13:30	۲,	0	0	. 0	20.9	32/	G	
		1/32 30	7	0	D	0	20.9	31 / -	CI	
								/		
								/		
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								/		
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Name	R	Designation	

Signature

Field Operator:

MAK KA CHUN

俊

<u>Date</u> 2*h*/6/2013

Laboratory Staff:

Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PAM-2000 PORAE III)	28/7/2002
13074	17/11/2022

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
. a <u></u>			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
RE A	30/6/2023	oत: ३5	Sunny	0	0	0	20.9	29/999	9	
		13:30	5,	0	0	0	20.9	30/	G	
		16230	C-7	0	D	0	20.4	30/ 4	CI	
							-	/		
	·							/		
								/		
			1					/		
			-					/ .		
				-				/		
								/		

Name &	Design	ation
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Signature

<u>Date</u> 30/6/2023

Field Operator:

MAK KA CHUN

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Wan Po Road Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

				Mo	nitoring wells ,	/ Surface C	Gas Emis	sion	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxid e(%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPRTTA 4	(/ (/ 2023	0830	Rain/Fine	0	0	0	20.9	19/1/0/0	3.7
	V	1330	Rain/F ine	0	0	0	20.9	20/1009	3.7
	V	1700	Rain/Fine	0	0	0	20.9	17/1009	3.7
WPRTTA 5	\	0830	Rain/F ine	0	0	0	20.9	18/10/0	3.6
	٧	1330	Rain/Fine	0	0	0	20.9	19/10/0	3.6
	Υ	1700	Rain/Fine	0	0	0	20.9	18//069	3.6

Name & Designation

Signature

ate 1/6/2023

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Wan Po Road Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			•	Moı	nitoring wells ,	/ Surface (Gas Emis	ssion	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxid e(%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPRTTA 4	2/6/2023	0830	Rain /Fine	0	0	. 0	20.9	19/1009	3.7
	V	1330	Rain/Fine	0	0	0	20.9	20/10/0	3.7
-	٧	1700	Rain /Fine	0	0	0	20.9	18/1010	3.7
WPRTTA 5	\	0830	Rain/Fine	0	0	0	20.9	19/10/0	3.6
	V	1330	Rain/Fine	0	0	0	20.9	18/1009	3.6
	V	1700	Rain/Fine	0	0	0	20.9	17//009	3.6
								1	

Name & Designation

Signature

<u>Date</u> 2/6/2023

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Wan Po Road Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

				Mon	nitoring wells ,	/ Surface (Gas Emis	sion	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxid e(%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPRTTA 4	5 /6/2023	0830	Rain/Fine	0	0	0	20.9	17/1009	3.7
	V	1330	Rain/Fine	0	0	0	20.9	19/1009	3.7
	٧	1700	R ain /Fine	0	0	0	20.9	20/10/0	3.7
WPRTTA 5	٧	0830	Rain/Fine	0	0	0	20.9	18/10/0	3.6
	γ	1330	Rain/Fine	0	0	0	20.9	30/10/0	3.6
	V	1700	Rain/Fine	0	0	0	20.9	19/1009	
								•	

Name & Designation

Signature

Date 5/6/2023

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Wan Po Road Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

				Mor	nitoring wells ,	/ Surface C	Gas Emis	ssion	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxid e(%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Depth (m)
WPRTTA 4	6/6/2023	0830	Rain/F ine	0	0	0	20.9	17/10/0	3.7
	V	1330	Rain/F ine	0	0	0	20.9	20/1009	3.7
	Υ	1700	Rain/F ine	0	0	0	20.9	19/1009	3.7
WPRTTA 5	٧	0830	Rain/Fine	0	0	0	20.9	18/10/0	
	٧	1330	Rain/Fine	0	0	0	20.9	20/10/0	3.6
	Υ	1700	Rain/Fine	0	0	0	20.9	8/1009	3.6

Name & Designation

Signature

Date 6/6/2013

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Penta-Ocean - Concentric Joint Venture

Wan Po Road Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

				Mor	nitoring wells ,	/ Surface C	Gas Emis	ssion	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxid e(%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Depth (m)
WPRTTA 4	7/6/2023	0830	Rain/Fine	0	0	0	20.9	18/10/0	3.7
	\ \ \ \	1330	Rain/Fine>	0	0	0	20.9	19/1009	3.7
- consider a consideration	٧	1700	Rain/Fine	0	0	0	20.9	17/1009	3.7
WPRTTA 5	٧	0830	Rain/Fine	0	0	0	20.9	19/10/0	3.6
	\(\)	1330	Rain/Eine	0	0	0	20.9	20/10/0	3.6
	, X	1700	Rain/Fine	0	0	0	20.9	18//009	3.6

Name & Designation

Signatur

Date 7/6/2013

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Wan Po Road Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

				Mor	nitoring wells ,	/ Surface C	Gas Emis	sion	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxid e(%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Depth (m)
WPRTTA 4	<i>የ</i> /6 / 2023	0830	R ain/ Fine	0	0	0	20.9	19/10/0	3.7
	V	1330	Rain/Fine	0	0	0	20.9	20/1009	3.7
	Y	1700	Rain/Fine	0	0	0	20.9	18/1009	3.7
WPRTTA 5	V	0830	Rain/Fine	0	0	0	20.9	20/1009	3.6
	7	1330	Rain/Fine	0	0	0	20.9	19/10/1	3.6
	V	1700	-Rain/Fine	0	0	0	20.9	18/10/0	3.6

Name & Designation

Signature

ate 8/6/202

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Wan Po Road Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			·	Moi	nitoring wells ,	/ Surface C	Gas Emis	sion	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxid e(%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	
WPRTTA 4	9 /6 / 2023	0830	Rain/F ine	0	0	0	20.9	19/10/0	3.7
	V	1330	Rain/F ine	0	0	0	20.9	17/1009	3.7
	V	1700	Rain/Fine	0	0	0	20.9	18/1009	3.7
WPRTTA 5	ý	0830	Rain/Fine	0	0	0	20.9	18/10/0	3.6
	V	1330	Rain/Fine	0	0	0	20.9	19/10/0	3.6
	Y	1700	Rain/Fine	0	0	0	20.9	20/1009	3.6
								\	

Name & Designation

Signature

Date 9/6/2023

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Wan Po Road Gas Monitoring - Field Measurement Recording Sheet

Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

				Mor	nitoring wells ,	[/] Surface C	Gas Emis	sion	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	HIOHOXIG	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPRTTA 4	(ユ /6 / 2023	0830	Rain/Fine	0	0	0	20.9	17/10/0	3.7
	V	1330	Rain/Fine	0	0	0	20.9	18/1010	3.7
	٧	1700	Rain /Fine	0	0	0	20.9	20/1009	3.7
WPRTTA 5	Υ	0830	Rain/Fine	0	0	0	20.9	18/1009	3.6
	١٢	1330	Rain/Fine	0	0	0	20.9	19/1010	3.6
	У	1700	Rain/Fine	0	0	0	20.9	20/10/0	3.6
				-					

Name & Designation

Signature

Date 12/6/2023

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Wan Po Road Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated					
XT-XWHM-Y-OR	2/9/2022					

			Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather . condition	Balance gas (%)	Flammable gas (methame %)	HOHOMA	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Depth (m)	
WPRTTA 4	B/6/2023	0830	Rain/ Fine	0	0	0	20.9	19/10/0	3.7	
•	7	1330	Rain/Fine	0	0	0	20.9	20/1009	3.7	
	Y	1700	Rain/Fine	0	0	0	20.9	18/1009	3.7	
WPRTTA 5	٧	0830	Rain/Fine	0	0	0	20.9	20/10/0	3.6	
	V	1330	Rain/F ine	0	0	0	20.9	19/10/0	3.6	
	Ý	1700	Rain/Fine	0	0	0	20.9	17/1009	3.6	

Name & Designation

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Checked by:

Signature

Date 13/6/2013

Penta-Ocean - Concentric Joint Venture

Wan Po Road Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated				
XT-XWHM-Y-OR	2/9/2022				

			Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	monoxid	Oxyge n (%)	(mbar)	Depth (m)	
WPRTTA 4	f4 / 6 / 2023	0830	Rain/Fine	0	0	0	20.9	18/1009	3.7	
	V	1330	Rain/Fine	0	0	0	20.9	20//0/0	3.7	
	Υ	1700	Rain/Fine	0	0	0	20.9	17/10/0	3.7	
WPRTTA 5	\/	0830	Rain/Fine-	0	0	0	20.9	19/10/0	3.6	
	V	1330	Rain/Fine	0	0	0	20.9	18/1009	3.6	
	V	1700	Rain/Fine	0	0	0	20.9	18/10/0	3.6	

Name & Designation

KK Wong (Competent Person)

Laboratory Staff:

Field Operator:

Checked by:

14/6/2023

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Wan Po Road Gas Monitoring - Field Measurement Recording Sheet

Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxid e(%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WPRTTA 4	15/6/2023	0830	Rain/ Fine -	0	0	0	20.9	0/0/1 11	3.7	
	\ \ \	1330	Rain/Fine	0	0	0	20.9	20/10/0		
	V	1700	Rain/ Fine	0	0	0	20.9	(9/1009	3.7	
WPRTTA 5	V	0830	Rain/ Fine	0	0	0	20.9	18 /1009		
	V	1330	Rain/Fine	0	0	0	20.9	19/10/8	3.6	
	V	1700	Rain/Fine	0	0	0	20.9	70/10/0	3.6	

Name & Designation

Traine & Designation

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Checked by:

Signature

 $\frac{\text{Date}}{\sqrt{5}} / 5 / \sqrt{2023}$

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Wan Po Road Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated				
XT-XWHM-Y-OR	2/9/2022				

			Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxid e(%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Depth (m)	
WPRTTA 4	16/6/2023	0830	Rain/Fine	0	0	0	20.9	18//0/0	3.7	
	Ý	1330	Rain/Fine	0	0	0	20.9	19/1069	3.7	
	V	1700	Rain/Eine	0	0	0	20.9	17/1009	3.7	
WPRTTA 5	V	0830	Rain/Eine-	0	0	0	20.9	17/10/0	3.6	
	V	1330	Rain/Eine	0	0	0	20.9	18/10/0	3.6	
	Ý	1700	Rain/Fine	0	0	0	20.9	0/01/91	3.6	
			·							

Name & Designation

Signature

<u>Date</u> 16/6/1023

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Wan Po Road Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Dates calibrated				
2/9/2022				

			Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxid e(%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Depth (m)	
WPRTTA 4	[¶ / ¶ / 2023	0830	Rain/Fine	0	0	0	20.9	18//009	3.7	
	1	1330	Rain/F ine	0	0	0	20.9	20/5010	3.7	
	٧	1700	Rain/ Fine	0	0	0	20.9	17/10/0	3.7	
WPRTTA 5	V	0830	Rain/Fine-	0	0	0	20.9	19/1009	3.6	
	V	1330	Rain/ Fine	0	0	0	20.9	18/10/0	3.6	
	Ý	1700	Rain/ Fine	0	0	0	20.9	19/10/0	3.6	

						<u> </u>	<u> </u>	<u> </u>	<u></u>	

Name & Designation

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Checked by:

Signature

<u>Date</u> 19/

9/6/2023

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Wan Po Road Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

				Moi	nitoring wells ,	/ Surface C	Gas Emis	sion	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	HIGHOXIG	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPRTTA 4	그 0/6/2023	0830	Rain/Fine	0	0	0	20.9	19//009	3.7
	7	1330	Rain/F ine	0	0	0	20.9	20/10/0	3.7
	٧	1700	Rain/F ine	0	0	0	20.9	18/10/0	3.7
WPRTTA 5	V	0830	Rain/ Fin e	0	0	0	20.9	17/1009	3.6
	V	1330	Rain/Fine.	0	0	0	20.9	19/1009	3.6
	У	1700	Rain/ Fine	0	0	0	20.9	20/10/0	3.6
							<u> </u>		

Name & Designation

Signature

<u>Date</u> 20/6/2023

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Wan Po Road Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission						
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxid e(%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPRTTA 4	\ / \ / 2023	0830	Rain/Fine	0	0	0	20.9	17/0/0	3.7
	4 67	1330	Rain/Fine	0	0	0	20.9	19/1009	3.7
	\(1700	Rain/Fine	0	0	0	20.9	18/1009	3.7
WPRTTA 5	\frac{1}{2}	0830	Rain/F in e	0	0	0	20.9	19/10/1	3.6
		1330	Rain/Fine	0	0	0	20.9	20/10/0	3.6
	Y	1700	Rain/Fine	0	0	0	20.9	18/10/0	3.6

Name & Designation

Signature

Date 1/6/2013

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Wan Po Road Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Dates calibrated
2/9/2022

	,		Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxid e(%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Depth (m)	
WPRTTA 4) 2 /6 / 2023	0830	Rain/Eine	0	0	0	20.9	18/1069	3.7	
	V	1330	Rain/Fine	0	0	0	20.9	19/10/0	3.7	
	V	1700	Rain/Fine	0	0	0	20.9	17/1010	3.7	
WPRTTA 5	Ý	0830	Rain/Fine	0	0	0	20.9	18/10/0	3.6	
	1	1330	Rain/Eine	0	0	0	20.9	20//009	3.6	
	У	1700	Rain/Eine	0	0	0	20.9	18/1009	3.6	

Name & Designation

Signature

Date $\frac{3}{6}$

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Wan Po Road Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxid e(%)	Oxyge n (%)	(mbar)	Depth (m)	
WPRTTA 4	λ/6/2023	0830	Rain/ Fin e	0	0	0	20.9	18//009	3.7	
	√ Y	1330	Rain/Fine	0	0	0	20.9	20//0/0	3.7	
	V	1700	Rain/Fine	0	0	0	20.9	19/10/0	3.7	
WPRTTA 5	V	0830	Rain/F ine	0	0	0	20.9	19/1009	3.6	
	Ý	1330	Rain/Fine.	0	0	0	20.9	18/1009	3.6	
	Y	1700	Rain/ Fine -	0	0	0	20.9	>0/10/b	3.6	
						<u> </u>		:	<u> </u>	

Name & Designation

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Checked by:

Signature

Date 26/6/2023

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Wan Po Road Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxid e(%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WPRTTA 4	7 /6 / 2023	0830	Rain/Fine	0	0	0	20.9	19/1009	3.7	
	T T	1330	Rain/Fine	0	0	0	20.9	18/1009	3.7	
	7	1700	Rain/Fine	0	0	0	20.9	20//0/0	3.7	
WPRTTA 5	Ÿ	0830	Rain/Fine	0	0	0	20.9	18/10/0	3.6	
	Ý	1330	Rain/Fine	0	0	0	20.9	17/10/0	3.6	
	V	1700	Rain /Fine	0	0	0	20.9	Pool / P1	3.6	

Name & Designation

<u>Signature</u>

Date 27/6/2023

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Wan Po Road Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxid e(%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Depth (m)	
WPRTTA 4	<u> </u>	0830	Rain/ Fin e	0	0	0	20.9	17 //0/0	3.7	
	V	1330	Rain/Fine	0	0	0	20.9	18/1009	3.7	
	٧	1700	Rain/ Fine	0	0	0	20.9	19/1009	3.7	
WPRTTA 5	٧	0830	Rain/Fine	0	0	0	20.9	18/10/0	3.6	
	٧	1330	Rain/ Fine	0	0	0	20.9	20/1009	3.6	
	Y	1700	Rain/ Fine	0	0	0	20.9	19/10/0	3.6	
	·									

Name & Designation

Ivanie & Designation

KK Wong (Competent Person)

Laboratory Staff:

Field Operator:

Checked by:

Signature

Date 28/6/20-3

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Wan Po Road Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

				Mor	nitoring wells ,	/ Surface C	Gas Emis	sion	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	monoxid	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Depth (m)
WPRTTA 4	<u> </u>	0830	-Rain/Fine	0	0	0	20.9	19/1004	3.7
	1/	1330	Rain/Fine	0	0	0	20.9	20/10/0	3.7
	7	1700	-Rain/Fine	0	0	0	20.9	18/10/1	3.7
WPRTTA 5	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0830	Rain/Fine	0	0	0	20.9	18/1009	3.6
	V	1330	Rain/Fine	0	0	0	20.9	19/1009	3.6
	V	1700	Rain/Fine	0	0	0	20.9	17'/10/6	3.6
								,	

Name & Designation

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Checked by:

Signature

Date 29/6/2023

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Wan Po Road Gas Monitoring - Field Measurement Recording Sheet	Sampling equipment used:	Dates calibrate
0	XT-XWHM-Y-OR	2/9/2022
Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O		
Date of measurement:		

				Moı	nitoring wells ,	/ Surface C	Gas Emis	sion	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxid e(%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Depth (m)
WPRTTA 4	30/4 / 2023	0830	Rain/Eine	0	0	0	20.9	17//0/0	
	<u> </u>	1330	Rain/Fine	0	0	0	20.9	20//009	3.7
	У	1700	Rain/F ine	0	0	0	20.9	18/1009	3.7
WPRTTA 5	V	0830	Rain/Fine>	0	0	0	20.9	19/10/0	3.6
	٧	1330	Rain/Fine	0	0	0	20.9	18/1004	3.6
	Y	1700	Rain/F ine	0	0	0	20.9	19/1004	3.6
									<u> </u>

Name & Designation

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Checked by:

<u>Date</u> 30/6/2023

Dates calibrated

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Area 137 Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area 137 Pit A	1/6/2023	0830	Rain/F ine	0	0	0	20.9	17/10/0	8.4		
	٧	1330	Rain/ Fine	0	0	0	20.9	19/1010	8.4		
	1/	1700	Rain/F ine	- 0	0	0	20.9	20/1009	8.4		
Area 137 Pit B	V	0830	Rain/F in e	0	0	0	20.9	18/1009	8.6		
	V	1330	Rain/F ine	0	0	0	20.9	20/10/0	8.6		
	V	1700	Rain/F ine	0	0	0	20.9	18/1010	8.6		
Area 137 Pit C	1/	0830	Rain/Fine	0	0	0	20.9	17/1009	10		
	١٢	1330	Rain/Fine	0	0	0	20.9	20/1010	10		
	\r	1700	Rain/Fine	0	0	0	20.9	19/10/0	10		

Name & Designation

<u>Signature</u>

Date //6/2013

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Area 137 Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area 137 Pit A	2/6/2023	0830	Rain/Fine	0	0	0	20.9	18/1009	8.4		
	V	1330	Rain/Fine	0	0	0	20.9	20/10/0	8.4		
	У	1700	Rain/Fine	0	0	0	20.9	17 /1009	8.4		
Area 137 Pit B	V	0830	Rain/Fine	0	0	0	20.9	19/10/0	8.6		
	٧	1330	Rain/Fine	0	0	0	20.9	18/1010	8.6		
	V	1700	Rain/Fine	0	0	0	20.9	17/1009	8.6		
Area 137 Pit C	V	0830	Rain /Fine	0	0	0	20.9	18/1009	10		
	V	1330	Rain/Fine	0	0	0	20.9	19/1010	10		
	٧	1700	Rain/Fine	0	0	0	20.9	8/10/0	10		

Name & Designation

Signature

<u>Date</u> 2/6/2013

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Area 137 Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area 137 Pit A	5/6/2023	0830	Rain/Fine	0	0	0	20.9	17/1009	8.4		
	V	1330	Rain/Fine	0	0	0	20.9	19/1010	8.4		
	\ <u></u>	1700	Rain/Fine	0	0	0	20.9	18/1009	8.4		
Area 137 Pit B	٧	0830	-Rain/Fine	0	0	0	20.9	18/1009	8.6		
	· ·	1330	Rain/Fine	0	0	0	20.9	20/10/0	8.6		
	· ·	1700	Rain/Fine	0	0	0	20.9	19/1009	8.6		
Area 137 Pit C	V	0830	Rain/Fine	0	0	0	20.9	18/1009	10		
	Υ	1330	Rain/Fine	0	0	0	20.9	20/10/0	10		
	٧	1700	Rain/Fine	0	0	0	20.9	19/10/0	10		

Name & Designation

<u>Signature</u>

Date 5/6/1013

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Area 137 Gas Monitoring - Field Measurement Recording Sheet

Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area 137 Pit A	6 / 6 / 2023	0830	Rain/Fine	- 0	0	0	20.9	17/1009	8.4		
	٧	1330	Rain/Fine	0	0	0	20.9	18/1009	8.4		
,	V	1700	Rain/F ine	0	0	0	20.9	20/10/0	8.4		
Area 137 Pit B	V	0830	Rain/Fine	0	0	0	20.9	18/10/0	8.6		
	V	1330	Rain/Fine	0	0	0	20.9	19/10/0	8.6		
	V	1700	Rain/ Fine	0	0	0	20.9	18/1009	8.6		
Area 137 Pit C	٨	0830	Rain/Fine	0	0	0	20.9	17/10/0	10		
	V	1330	Rain/Fine	0	0	0	20.9	19/10/0	10		
711	V	1700	Rain/Fine	0	0	0	20.9	18/1009	10		

Name & Designation

Signature

Date 6/6/2013

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Area 137 Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Dates calibrated
2/9/2022

			Monitoring wells / Surface Gas Emission						
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	7/6/2023	0830	Rain/Fine	0	0	0	20.9	18 / 1009	8.4
	V	1330	Rain/Fine-	0	0	0	20.9	19/10/0	8.4
	V	1700	Rain/Fine	0	0	0	20.9	20/1010	8.4
Area 137 Pit B	\/	0830	Rain/Fine-	0	0	0	20.9	19/1009	8.6
	\frac{1}{2}	1330	Rain/Fine	0	0	0	20.9	20/10/0	8.6
	V	1700	Rain/ Fine	0	0	0	20.9	18/10/0	8.6
Area 137 Pit C	V	0830	Rain/Fine	0	0	0	20.9	17/1009	10
	V	1330	Rain/ Fine	0	0	0	20.9	19/1009	10
	V	1700	Rain/Fine	0	0	0	20.9	20/10/0	10

Name & Designation

Signature

Date 7/6/2003

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Contract no. 13/WSD/16
Mainlaying in Tseung Kwan O
Penta-Ocean - Concentric Joint Venture
Area 137 Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated				
XT-XWHM-Y-OR	2/9/2022				

				Mo	onitoring wells	/ Surface C	Sas Emis	ssion	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	monoxide	n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	8/5/2023	0830	Rain/Fine	0	0	0	20.9	14/10/0	
Titca to / Titl	\(\)	1330	Rain/Fine	0	0	0	20.9	20/10/0	8.4
	V	1700	Rain/Fine	0	0	0	20.9	18/1009	8.4
Area 137 Pit B		0830	Rain/Fine	0	0	0	20.9	18/10/0	8.6
Alea 137 Tit b	\(\lambda \)	1330	Rain/Fine	0	0	0	20.9	19/1009	
	N .	1700	Rain/Fine	0	0	0	20.9	17/1009	
Area 137 Pit C	V V	0830	Rain/Fine	0	0	0	20.9	18/10/0	10
Area 137 Fit C	V	1330	Rain/Fine	0	0	0	20.9	20/1009	10
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1700	Rain/Fine	0	0	0	20.9	19/10/0	10

Name & Designation

Signature

Date 8/6/2013

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Area 137 Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	monoxide	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Area 137 Pit A	٩ / 🏲 / 2023	0830	Rain/Fine	0	0	0	20.9	19/1009	8.4	
	V	1330	Rain/Fine	0	0	0	20.9	20/1010	8.4	
	V	1700	Rain/Fine-	0	0	0	20.9	18/1010	8.4	
Area 137 Pit B	٧	0830	Rain/Fine	0	0	0	20.9	18/1009	8.6	
	7	1330	Rain/F ine	0	0	0	20.9	19/1010	8.6	
	V	1 7 00	Rain/Fine	0	0	0	20.9	20/10/0	8.6	
Area 137 Pit C	7	0830	Rain/Fine-	0	0	0	20.9	18/1009	10	
	V	1330	Rain/Fine	0	0	0	20.9	19/1009	10	
	ر,	1700	Rain/F ine	0	0	0	20.9	20/10/0	10	

Name & Designation

Signatur

Date 9/5/2023

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Area 137 Gas Monitoring - Field Measurement Recording Sheet

Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)		Remark Depth (m)	
Area 137 Pit A	(2/6/2023	0830	Rain/Fine	0	0	0	20.9	17/1009	8.4	
	V	1330	Rain/Fine	0	0	0	20.9	18/1010	8.4	
	٧	1700	Rain/Fine	0	0	0	20.9	20/10/0	8.4	
Area 137 Pit B	V	0830	Rain/Fine	0	0	0	20.9	18/1009	8.6	
	V	1330	Rain/Fine	0	0	0	20.9	19/1009	8.6	
	V	1700	Rain/Fine	0	0	0	20.9	18/10/0	8.6	
Area 137 Pit C	V	0830	Rain/Fine	0	0	0	20.9	17/1009	10	
	V	1330	Rain/Fine	0	0	0	20.9	19/10/0	10	
	V	1700	Rain/Fine	0	0	0	20.9	20/10/0	10	

Name & Designation

Signature

Date 12/5/2023

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Area 137 Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

		30-30-00-1	Monitoring wells / Surface Gas Emission						
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	1	0830	Rain/Fine	0	0	0	20.9	18/10/0	8.4
	13, 0,	1330	Rain/Fine	.0	0	0	20.9	17/1009	8.4
	V	1700	Rain/Fine	0	0	0	20.9	19/1009	8.4
Area 137 Pit B	٧	0830	Rain/Fine	0	0	0	20.9	18/1009	8.6
	٧	1330	Rain/Fine	0	0	0	20.9	19/10/0	8.6
	V	1700	Rain/Fine	0	0	0	20.9	18/10/0	8.6
Area 137 Pit C	V	0830	Rain/Fine	0	0	0	20.9	17/1009	10
	V	1330	Rain/Fine	0	0	0	20.9	19/10/0	10
	J	1700	Rain/Fine	0	0	0	20.9	20/10/0	10

Name & Designation

Signature

Date 13/6/2023

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Area 137 Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

				Mo	onitoring wells	/ Surface C	Gas Emis	ssion	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	14/5/2023	0830	Rain/F ine	0	0	0	20.9	18/1009	8.4
		1330	Rain/ Fine	0	0	0	20.9	20/10/0	8.4
	У	1700	Rain/Fine	- 0	0	0	20.9	19/10/0	8.4
Area 137 Pit B	V	0830	Rain/Fine-	0	0	0	20.9	17/1009	8.6
	7	1330	Rain/Eine-	0	0	0	20.9	18/1009	8.6
	\(\)	1700	Rain/Fine	0	0	0	20.9	19/10/0	8.6
Area 137 Pit C	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0830	Rain/Fine	0	0	0	20.9	17/10/0	10
11101101111	V	1330	Rain/Fine	0	0	0	20.9	18/1009	10
	V	1700	Rain/ Fine	0	0	0	20.9	19/10/0	10

Name & Designation

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Checked by:

14/5/2013

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Area 137 Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated				
XT-XWHM-Y-OR	2/9/2022				

			-	M	onitoring wells	/ Surface C	Gas Emi	ssion	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	15/6/2023	0830	Rain/Fine-	0	0	0	20.9	18/1010	8.4
	1	1330	Rain/Fine	0	0	0	20.9	17/1010	8.4
	V	1700	Rain/Fine	0	0	0	20.9	19/1009	8.4
Area 137 Pit B	٧	0830	Rain/Fine	0	0	0	20.9	19/1009	8.6
	Ч	1330	Rain/F in e	0	0	0	20.9	18/1009	8.6
	Ý	1700	Rain/ Fin e	0	0	0	20.9	20/10/0	8.6
Area 137 Pit C	٧.	0830	Rain/Fine	0	0	0	20.9	17/10/0	10
	Υ	1330	Rain/F in e	0	0	0	20.9	19/1009	10
	(1700	Rain/Fine	0	0	0	20.9	18/1009	10

Name & Designation

Signature

Pate 15/6/2023

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Area 137 Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area 137 Pit A	16 / 6 / 2023	0830	Rain/Eine	0	0	0	20.9	19/1010	8.4		
	ν	1330	Rain/Fine	0	0	0	20.9	20/1009	8.4		
	ν	1700	Rain/Eine	0	0	0	20.9	18/1009	8.4		
Area 137 Pit B	у	0830	Rain/Eine	Ö	0	0	20.9	18/1010	8.6		
	y	1330	Rain/Fine	0	0	0	20.9	19/10/0	8.6		
	·	1700	Rain/Fine	0	0	0	20.9	17/1009	8.6		
Area 137 Pit C	٧	0830	Rain/F ine	0	0	0	20.9	20/10/0	10		
	V	1330	Rain/F ine	0	0	0	20.9	18/1009	10		
	V	1700	Rain/Fine	0	0	0	20.9	19/1009	10		

Name & Designation

KK Wong (Competent Person)

Laboratory Staff:

Field Operator:

Checked by:

<u>Date</u> 16/6/2013

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Area 137 Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

				Mo	onitoring wells	/ Surface C	Gas Emis	ssion	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	19 / 6 / 2023	0830	Rain/Fine-	0	0	0	20.9	18/1009	8.4
	1/	1330	Rain/Fine	0	0	0	20.9	19/1009	8.4
	V	1700	Rain/Fine-	0	0	0	20.9	17/1009	8.4
Area 137 Pit B	\ \ \	0830	Rain/Fine	0	0	0	20.9	18/10/0	8.6
	V	1330	Rain/Fine	0	0	0	20.9	20/10/0	8.6
	١,	1700	Rain/Fine	0	0	0	20.9	18/1009	8.6
Area 137 Pit C	· · · · · · · · · · · · · · · · · · ·	0830	Rain/ Fine	0	0	0	20.9	17/1009	10
	\frac{1}{\sqrt{1}}	1330	Rain/Fine	0	0	0	20.9	19/10/0	10
	7	1700	Rain/Fine	0	0	0	20.9	(8/10/10	10

Name & Designation

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Checked by:

Signature

Date 19/6/2013

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Area 137 Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission									
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)			
Area 137 Pit A	20/6/2023	0830	Rain/Fine	0	0	0	20.9	17/1009	8.4			
	V	1330	Rain/Fine-	0	0	0	20.9	19/10/0	8.4			
	V	1700	Rain/Fine	0	0	0	20.9	18/10/0	8.4			
Area 137 Pit B	V	0830	Rain/F ine	0	0	0	20.9	18/1009	8.6			
	Υ	1330	Rain/Fine	0	0	0	20.9	17/10/0	8.6			
	У	1700	Rain/Eine	0	0	0	20.9	20/1/0/0	8.6			
Area 137 Pit C	V	0830	Rain/Fine	0	0	0	20.9	18/1009	10			
	1	1330	Rain/Eine	0	0	0	20.9	20/10/0	10			
	V	1700	Rain/Fine	0	0	0	20.9	19/10/0	10			

Name & Designation

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Checked by:

Date 20/6/2023

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Area 137 Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area 137 Pit A	괴/ (/ 2023	0830	Rain/Fine-	0	0	0	20.9	19 /10/0	8.4		
	1	1330	Rain/ Fine	0	0	0	20.9	20/1009	8.4		
	Υ	1700	Rain/Fine	0	0	0	20.9	18/10/0	8.4		
Area 137 Pit B	Y	0830	Rain/Fine	0	0	0	20.9	18/1009	8.6		
	\ \	1330	Rain/ Fine	0	0	0	20.9	20/10/0	8.6		
	V	1700	Rain/Fine	0	0	0	20.9	19/10/0	8.6		
Area 137 Pit C	V	0830	Rain/ Fine	0	0	0	20.9	17 /1009	10		
	V	1330	Rain/Fine	0	0	0	20.9	18/10/0	10		
	v ·	1700	Rain/ Fine	0	0	0	20.9	19 1/009	10		

Name & Designation

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Checked by:

Signature

<u>Date</u>

21/6/2013

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Area 137 Gas Monitoring - Field Measurement Recording Sheet

Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission									
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)			
Area 137 Pit A	소3/6/2023	0830	Rain/ Fine	0	0	0	20.9	18/1009	8.4			
	V	1330	Rain/Fine-	0	0	0	20.9	18 /10/0	8.4			
	V	1700	Rain/ Fine -	0	0	0	20.9	19/10/0	8.4			
Area 137 Pit B	γ	0830	Rain/Fine	0	0	0	20.9	17/1009	8.6			
	٧	1330	Rain/ Fine	0	0	0	20.9	19 /1939	8.6			
	٧	1700	Rain/F ine	0	0	0	20.9	18 /10/0	8.6			
Area 137 Pit C	٧	0830	Rain/ Fine-	0	0	0	20.9	17/1009	10			
	V	1330	Rain/Fine-	0	0	0	20.9	19 1/009	10			
	V	1700	Rain/Fine	0	0	0	20.9	18/10/6	10			

Name & Designation

Name & Designation

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Checked by:

ure

<u>Date</u> <u>13/6/1013</u>

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Area 137 Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

		·	Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area 137 Pit A	عرا م / 2023	0830	Rain/ Fine	0	0	0	20.9	18 //0/0	8.4		
	V	1330	Rain/ Fine	0	0	0	20.9	20/10/0	8.4		
	γ	1700	Rain/ Fine	0	0	0	20.9	17 /1009	8.4		
Area 137 Pit B	٧	0830	Rain/Fine	0	0	0	20.9	19/1009	8.6		
	V	1330	Rain/ Fine	0	0	0	20.9	18/10/0	8.6		
	ν,	1700	Rain/Fine-	0	0	0	20.9	17/10/0	8.6		
Area 137 Pit C	٧	0830	Rain/Fine	0	0	0	20.9	19/1009	10		
	4	1330	Rain/Fine	0	0	0	20.9	20/1009	10		
	V	1700	Rain/F ine	- 0	0	0	20.9	18/10/0	10		

Name & Designation

Signature

Date 26/6/22

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Area 137 Gas Monitoring - Field Measurement Recording Sheet

Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area 137 Pit A	١٦/ 6 / 2023	0830	Rain/Fine	0	0	0	20.9	17 / 1009	8.4		
	V	1330	Rain/Fine	0	0	0	20.9	18/1010	8.4		
	Ų	1700	Rain/Fine	0	0	0	20.9	20/10/0	8.4		
Area 137 Pit B	Л	0830	Rain/Fine	0	0	0	20.9	18/1009	8.6		
	٧	1330	Rain/Fine	0	0	0	20.9	19/1010	8.6		
	γ	1700	Rain/Fine	,0	0	0	20.9	17/10/0	8.6		
Area 137 Pit C	V	0830	Rain/Fine	0	0	0	20.9	18/1009	10		
	Y	1330	Rain/Fine	0	0	0	20.9	19/1010	10		
	٧	1700	Rain/Fine	0	0	0	20.9	>0/1009	10		

Name & Designation

Signature

2 ـ <u>/ 6/20 كا</u>

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Area 137 Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022
	ETHER CO.

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area 137 Pit A	28/6/2023	0830	Rain/Fine-	0	0	0	20.9	18//0/0	8.4		
	V	1330	Rain/ Fine	0	0	0	20.9	19/1009	8.4		
	V	1700	Rain/Fine	0	0	0	20.9	17/1009	8.4		
Area 137 Pit B	γ	0830	Rain/Fine	0	0	0	20.9	19/10/0	8.6		
	У	1330	Rain/Fine-	0	0	0	20.9	20/10/0	8.6		
	V	1700	Rain/Fine	0	0	0	20.9	18/1009	8.6		
Area 137 Pit C	1/	0830	Rain/Fine	0	0	0	20.9	17/1009	10		
	γ	1330	Rain/F ine	0	0	0	20.9	20/10/0	10		
	γ	1700	Rain/Fine_	0	0	0	20.9	0/01/81	10		

Name & Designation

Signature

Date 28/6/2013

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Area 137 Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)		Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area 137 Pit A	59/6/2023	0830	Rain/Fine	0	0	0	20.9	19/1009	8.4		
	\/	1330	Rain/Fine	0	0	0	20.9	20/10/0	8.4		
	Y	1700	Rain/Fine	0	0	0	20.9	18/10/0	8.4		
Area 137 Pit B	V	0830	R ain /Fine	0	0	0	20.9	18/1009	8.6		
	Ý	1330	Rain/Fine	0	0	0	20.9	19//0/0	8.6		
	٧	1700	Rain/Fine	0	0	0	20.9	17/100			
Area 137 Pit C	Υ	0830	Rain/Fine	0	0	0	20.9	18/1009	10		
	٧	1330	Rain/Fine	Ö	0	0	20.9	19/1009	10		
	Ý	1700	Rain/Fine	0	0	0	20.9	20/1010	10		

Name & Designation

KK Wong (Competent Person)

Laboratory Staff:

Field Operator:

Checked by:

Date 29/6/2013

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Area 137 Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area 137 Pit A	२०/ 6 / 2023	0830	Rain/ Fine	0	0	0	20.9	17/1009	8.4		
	V	1330	Rain/Fine	0	0	0	20.9	20/10/0	8.4		
	V	1700	Rain/ Fine	0	0	0	20.9	18/10/10	8.4		
Area 137 Pit B	V	0830	Rain/Fine>	0	0	0	20.9	18/1009	8.6		
	V	1330	Rain/F in e	0	0	0	20.9	19//0/0	8.6		
	V	1 <i>7</i> 00	Rain/Fine	0	0	0	20.9	18/1004	8.6		
Area 137 Pit C	V	0830	Rain/Fine	0	0	0	20.9	19/10/0	10		
	1	1330	Rain/Fine	0	0	0	20.9	20/10/0	10		
	V	1700	Rain/Fine	0	0	0	20.9	18/10/0	10		

Name & Designation

Signature

Date 30/6/2013

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Area A	(/ 6 / 2023	0830	Rain/ Fine	0	0	0	20.9	18/10/0	5.5	
	√	1330	Rain/Fine-	0	0	0	20.9	20/10/0	5.5	
	V	1700	Rain/ Fine	0	0	0	20.9	17/1009	5.5	
Area B	٧	0830	Rain/Fine	0	0	0	20.9	17/1010	5.5	
	V	1330	Rain/F ine	0	0	0	20.9	19/1dD	5.5	
	V	1700	Rain/Fine-	0	0	0	20.9	18/1009	5.5	
								•		

Name & Designation

Signature

Date 1/6/2023

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area A	> / 6 / 2023	0830	Rain/Fine	0	0	0	20.9	17 /10/0	5.5		
	· · · · · · · · · · · · · · · · · · ·	1330	Rain/Fine	0	0	0	20.9	20/1009	5.5		
	V	1700	Rain/Fine	0	0	0	20.9	19/10/0	5.5		
Area B	, ,	0830	Rain/Fine	0	0	0	20.9	18/1009	5.5		
	· ·	1330	Rain/Fine	0	0	0	20.9	19/1009	5.5		
	Υ	1700	Rain/Fine	0	0	0	20.9	19/10/0	5.5		

Name & Designation

Signature

<u>Date</u> 2/6/1013

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Dates calibrated
2/9/2022

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area A	5/6/2023	0830	Rain/Fine	0	0	0	20.9	19/10/0	5.5		
	V	1330	Rain/Fine	0	0	0	20.9	50 //0/0	5.5		
	٧	1700	Rain/Fine	0	0	0	20.9	18/1009	5.5		
Area B	V	0830	Rain/Fine	0	0	0	20.9	18/10/0	5.5		
	V	1330	Rain/Fine	0	0	0	20.9	19/10/0	5.5		
	V	1700	Rain/Fine	. 0	0	0	20.9	17/1009	5.5		

Name & Designation

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Checked by:

Date 5/6/2023

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated					
XT-XWHM-Y-OR	2/9/2022					

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area A	6/6/2023	0830	Rain/ Fine	0	0	0	20.9	19//009	5.5		
	V	1330	Rain/ Fine -	0	0	0	20.9	18/10/0	5.5		
	٧	1700	Rain/ Fine	0	0	0	20.9	17/10/0	5.5		
Area B	٧	0830	Rain/ Fine	0	0	0	20.9	18/1009	5.5		
	V	1330	Rain/Fine	0	0	0	20.9	19/10/0	5.5		
	·	1700	Rain/ Fine	0	0	0	20.9	17/1009	5.5		

Name & Designation

Signature

Date 6/6/2013

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	(mbar)	Remark Depth (m)		
Area A	7/6/2023	0830	Rain/Fine-	0	0	0	20.9	18/1009	5.5		
711CU 11	17 07 ===	1330	Rain/Fine	0	0	0	20.9	17/10/0	5.5		
	· · · · · · · · · · · · · · · · · · ·	1700	Rain/Fine	0	0	0	20.9	19/10/0			
Area B	V	0830	Rain/Fine	0	0	0	20.9	17/10/0	5.5		
71100 0	V	1330	Rain/Fine	0	0	0	20.9	18/1009	5.5		
	Ý	1700	Rain/Fine	0	0	0	20.9	19/1009	5.5		

Name & Designation

Name & Designat

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Checked by:

Signature

Date 7/6/2023

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated					
XT-XWHM-Y-OR	2/9/2022					

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area A	8 / 6 / 2023	0830	Rain/Fine	0	0	0	20.9	17/10/0	5.5		
	V	1330	Rain/Fine	0	0	0	20.9	20/1009	5.5		
	٧	1700	Rain/Fine	0	0	0	20.9	18/1009	5.5		
Area B	٧	0830	Rain/Fine	0	0	0	20.9	18/10/0	5.5		
	V	1330	Rain/Fine	0	0	0	20.9	19/10/0	5.5		
	٧	1700	Rain/Fine	0	0	0	20.9	17/1009	5.5		
						<u> </u>					

Name & Designation

<u>Signature</u>

Date 8/6/2003

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area A	9 / 6 / 2023	0830	Rain/Fine	. 0	0	0	20.9	18/1009			
	V	1330	Rain/Fine	0	0	0	20.9	19/1009	5.5		
	٧	1700	Rain/ Fine	0	0	0	20.9	17/10/0	5.5		
Area B	V	0830	Rain/Fine	0	0	0	20.9	17/1009			
	V	1330	Rain/Fine	0	0	0	20.9	20/10/0	5.5		
	Υ	1700	Rain/ Fine	0	0	0	20.9	19/1009	5.5		
									<u> </u>		
								<u> </u>			

Name & Designation

Signature

Date 9/6 (2023

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

		WATER CONTRACTOR OF THE PARTY O	Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Area A	12 / 6 / 2023	0830	Rain/Fine	0	0	0	20.9	19/10/0	5.5	
	V	1330	Rain/Fine	0	0	0	20.9	20/10/0	5.5	
	V	1700	Rain/Fine	0	0	0	20.9	18/1009	5.5	
Area B	V	0830	Rain/Fine	0	0	0	20.9	18/10/0	5.5	
	V	1330	Rain/Fine	0	0	0	20.9	19/1009	5.5	
	Ý	1700	Rain/Fine	0	0	0	20.9	17/1009	5.5	
				•						

Name & Designation

Signature

Date 12/6/2023

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Area A	13/6/2023	0830	Rain/Fine	0	0	0	20.9	18/1009	5.5	
	, (,	1330	Rain/Fine	0	0	0	20.9	20/10/0	5.5	
	V	1700	Rain/Fine	0	0	0	20.9	19/10/0	5.5	
Area B	٧	0830	Rain/Fine	0	0	0	20.9	17 /100	5.5	
	٧	1330	Rain/Fine	0	0	0	20.9	18/1009	5.5	
	٧	1700	Rain/Fine	0	0	0	20.9	19/1009	5.5	

Name & Designation

Signature

<u>Date</u> 13/6/2023

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Contract no. 13/WSD/16
Mainlaying in Tseung Kwan O
Penta-Ocean - Concentric Joint Venture
Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Dates calibrated
2/9/2022
21.000000000000000000000000000000000000

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area A	14/6/2023	0830	Rain/Fine	0	0	0	20.9	19/10/0	5.5		
	V	1330	Rain/Fine-	0	0	0	20.9	18/1009	5.5		
	V	1700	Rain/Fine	0	0	0	20.9	19/1009	5.5		
Area B	γ	0830	Rain/Fine	0	0	0	20.9	18/10/0	5.5		
	V	1330	Rain/Fine	0	0	0	20.9	17/10/0	5.5		
	V	1700	Rain/Fine	0	0	0	20.9	>0/10/0	5.5		

Name & Designation

KK Wong (Competent Person)

Laboratory Staff:

Field Operator:

Checked by:

Signature

Date 14/6/2023

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area A	15/6/2023	0830	Rain/Fine	0	0	0	20.9	18/10/0	5.5		
	\ <u>\</u>	1330	Rain/Fine	0	0	0	20.9	19/1009	5.5		
	Y	1700	Rain/Fine	0	0	0	20.9	17/1009	5.5		
Area B	V	0830	Rain/Fine	0	0	0	20.9	19/1009	5.5		
	V	1330	Rain/Fine	0	0	0	20.9	>0/1009	5.5		
	У	1700	Rain/F ine	0	0	0	20.9	18/1010	5.5		

Name & Designation

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Checked by:

Signature

Date 15/6/2013

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring - Field Measurement Recording Sheet

13/WSD/16 - Mainlaying in Tseung Kwan O Name of site:

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area A	16/6/2023	0830	Rain/Fine	0	0	0	20.9	17/1009	5.5		
		1330	Rain/Fine	0	0	0	20.9	18/1010	5.5		
	V	1700	Rain/Eine	0	0	0	20.9	20/10/0	5.5		
Area B	V	0830	Rain/Fine	. 0	0	0	20.9	18/1009	5.5		
	, V	1330	Rain/Fine	0	0	0	20.9	20/1010	5.5		
	V	1700	Rain/Fine	0	0	0	20.9	19/10/0	5.5		

Name & Designation

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Checked by:

Date 16/6/2023

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

0 10 10000
2/9/2022

			Monitoring wells / Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Area A	19 / 6 / 2023	0830	Rain/Fine	0	0	0	20.9	18/10/0	5.5	
	V	1330	Rain/Fine	0	0	0	20.9	19/1009	5.5	
	V	1700	Rain/ Fin e	0	0	0	20.9	20/10/0	5.5	
Area B	٧	0830	Rain/Fine	0	0	0	20.9	19/10/0	5.5	
	V	1330	Rain/Fine	0	0	0	20.9	18/1009	5.5	
	Υ	1700	Rain/Fine	0	0	0	20.9	19/10/0	5.5	

Name & Designation

Signature

Scot / 19/6 | צרסג

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring - Field Measurement Recording Sheet

13/WSD/16 - Mainlaying in Tseung Kwan O Name of site:

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area A	20/6/2023	0830	Rain/Fine	0	0	0	20.9	19/1009	5.5		
	√ · · · · ·	1330	Rain/Fine	0	0	0	20.9	18/10/0	5.5		
	٧	1700	Rain/Fine	0	0 _	0	20.9	20//010	5.5		
Area B	V	0830	Rain/Fine	0	0	0	20.9	18/1009	5.5		
	Y	1330	Rain/Fine	0	0	0	20.9	19/10/0	5.5		
	γ	1700	Rain/Fine	0	0	0	20.9	>0/100	5.5		

Name & Designation

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Checked by:

Date 20/6/2023

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area A	1/6/2023	0830	Rain/ Fine	0	0	0	20.9	19/10/0	5.5		
	Ĭγ	1330	Rain/Fine	0	0	0	20.9	18/1009	5.5		
	γ	1700	Rain/F ine	0	0	0	20.9	>0/1010	5.5		
Area B	V	0830	Rain/Fine	0	0	0	20.9	0101/81	5.5		
	Υ	1330	Rain/F ine ,	0	0	0	20.9	17/10/0	5.5		
	Υ	1700	Rain/F ine ,	0	0	0	20.9	19/1009	5.5		
								•			

Name & Designation

Date 21/6/2013

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area A	깇 / 6 / 2023	0830	Rain/Fine	0	0	0	20.9	18/10/0	5.5		
	V	1330	Rain/Fine	0	0	0	20.9	17/1009	5.5		
	V	1700	Rain/Fine>	0	0	0	20.9	19/10/0	5.5		
Area B	٧	0830	Rain/Fine	0	0	0	20.9	19/10/0	5.5		
	٧	1330	Rain/Fine	0	0	0	20.9	18/1009	5.5		
	γ	1700	Rain/Fine	0	0	0	20.9	20/10/0	5.5		
								,			

Name & Designation

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Checked by:

Signature

Date 23/6/2013

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

				M	lonitoring wells	s / Surface C	Gas Emis	ssion	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area A	56/6/2023	0830	Rain/Fine	0	0	0	20.9	19/10/0	5.5
	√	1330	Rain/Fine	0	0	0	20.9	20/1009	5.5
	Υ	1700	Rain/Fine	0	0	0	20.9	18/1009	5.5
Area B	V	0830	Rain/Fine	0	0	0	20.9	20/10/0	5.5
	<u>۷</u>	1330	Rain/Fine	0	0	0	20.9	18/1010	5.5
	V	1700	Rain/Fine	0	0	0	20.9	19/10/0	5.5

Name & Designation

Signature

Date 26/6/2013

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area A	27 / 6 / 2023	0830	Rain/Fine	0	0	0	20.9	17/10/0	5.5		
	٧	1330	Rain/Fine	0	0	0	20.9	19/10/0	5.5		
	٧	1700	Rain/Fine	0	0	0	20.9	18/1009	5.5		
Area B	Λ.	0830	-Rain/Fine	0	0	0	20.9	19/10/0	5.5		
	Υ	1330	Rain/Fine	0	0	0	20.9	20/1009	5.5		
	Υ	1700	Rain/Fine	0	0	0	20.9	18/1009	5.5		

Name & Designation

Signature

<u>Date</u> 27/6/2023

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
XT-XWHM-Y-OR	2/9/2022

			Monitoring wells / Surface Gas Emission								
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area A	18/6 / 2023	0830	Rain/Fine	0	0	0	20.9	17/10/0	5.5		
	Υ	1330	Rain/Ei ne	0	0	0	20.9	20/10/0	5.5		
	٧	1700	Rain/F ine	0	0	0	20.9	18/1009	5.5		
Area B	\	0830	Rain/Fine	0	0	0	20.9	18/1009	5.5		
	7	1330	Rain/ Fin e	0	0	0	20.9	19/1009	5.5		
	γ	1700	Rain/Fine	0	0	0	20.9	17/10/0	5.5		

Name & Designation

<u>Signature</u>

Date 18/6/2013

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated				
XT-XWHM-Y-OR	2/9/2022				

				M	lonitoring wells	s / Surface C	Gas Emis	ssion	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area A)9/6/2023	0830	Rain/Fine	0	0	0	20.9	18/10/0	5.5
	V	1330	Rain/Fine	0	0	0	20.9	20/1009	5.5
	V	1700	Rain /Fine	0	0	0	20.9	19/1009	5.5
Area B	Ý	0830	Rain/Fine	0	0	0	20.9	19/10/0	5.5
	Υ	1330	Rain/Fine	0	0	0	20.9	18/1009	5.5
	\ \ \	1700	Rain/Fine	0	0	0	20.9	18/10/0	5.5

Name & Designation

Signature

te 29/6/2013

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

Landfill Gas Monitoring - Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated			
XT-XWHM-Y-OR	2/9/2022			

				M	onitoring wells	s / Surface C	Gas Emis	sion	
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methame %)	Carbon monoxide (%)	Oxyge n (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area A	30/6/2023	0830	Rain/Eine	0	0	0	20.9	18/10/0	5.5
	V	1330	Rain/F ine	0	0	0	20.9	19/10/0	5.5
	Υ	1700	Rain/ Fine	0	0	0	20.9	20/1009	5.5
Area B	٧	0830	Rain/Fine	0	0	0	20.9	0/01/191	5.5
	V	1330	Rain/Fine	0	0	0	20.9	20/1009	5.5
	V	1700	Rain/Fine	0	0	0	20.9	18/1/009	5.5

Name & Designation

Signature

30/6/2023

Field Operator:

KK Wong (Competent Person)

Laboratory Staff:





Appendix K

Complaint Log and Regulatory Compliance Proforma





<u>Table K-1 Statistical Summary of Environmental Complaints</u>

Reporting Period	Environmental Complaint Statistics					
noporting reriou	Frequency Cumulative		Complaint Nature			
1 – 30 June 2023	0	3	N/A			

<u>Table K-2 Statistical Summary of Environmental Summons</u>

Donouting Dowlod	Environmental Summons Statistics					
Reporting Period	Frequency	Cumulative	Details			
1 - 30 June 2023	0	0	N/A			

Table K-3 Statistical Summary of Environmental Prosecution

Donouting Donied	Environmental Prosecution Statistics				
Reporting Period	Frequency	Cumulative	Details		
1 - 30 June 2023	0	0	N/A		





Appendix L

Site Inspection Proforma





Contract No.: 13/WSD/16 Mainlaying in Tseung Kwan O

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspec	ion Date: 0//06/2015 Inspected by: ET: GRICLING	WSD. MV KE Toma
Inspect	ion Time: 1010 - UN	WSD: Mr. K.F. Isang IEC:
Weath		
Condi	tion Sunny Fine Overcast Drizzle Rain	Storm
Temp	erature 30. C Humidity High Unoderate	Low
Wind		
	Calm Uzight Breeze Strong	
		N/A Yes No Remarks
0.00	General	
0.01	Is the current Environmental Permit displayed conspicuously at all vehicle site	
	entrances/exits for public's information at any time?	
1.00	Construction Dust	
1.01	Are dusty materials, such as excavated materials, building debris and construction	
	materials, and exposed earth surface properly covered to prevent dust emission?	
1.02	Are screenings, enclosures, water spraying, or vacuum cleaning devices provided to dusty	
	construction works for dust suppression?	
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?	
1.04	Are wheel-washing facilities with high-pressure water jets provided at all sites exits?	
1.05	Is wheel-washing provided to all vehicles leaving the site?	ИПП
1.06	Are road section near the site exit free from dusty material?	
1.07	Are all main haul roads inside the site paved or sprayed with water to minimize dust	
	emission during vehicle movement?	
1.08	Are water spraying provided immediately prior to any loading or transfer of dusty	
	materials?	
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and leaving	
	the site?	
1.10	Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of	
1 11	boulders, poles, pillars sprayed with water to maintain the entire surface wet?	
1.11	Is exposed earth properly treated within six months after the last construction activity on	
1.12	site?	
	Does the operation of plants on site free form dark smoke emission?	
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?	
1.14	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3	
	sides?	
1.15	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?	
1.16	Are hoardings of at least 2.4m high provided along the site boundary adjoining areas	
	accessible by the public?	МПП
1.17	Is open burning prohibited?	
$-\bot$		



- 4		anacette.	Yes	No	Remarks
2.00	Construction Noise (Airborne)				
2.01	Are quiet plants adopted on site?				
2.02	Are the PMEs operating on site well-maintained to minimize the generation of excessive				
	noise?			Ш	
2.03	Are plants throttled down or turned off when not in use?				
2.04	Are the plants known to emit noise strongly in one direction oriented to face away from				1,
	NSRs?		Ш		
2.05	Are moveable barriers provided to screen NSRs from plant or noisy operations?				
2.06	Are silencers, mufflers and enclosures provided to plants?				
2.07	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?				
2.08	Are purposely-built site hoarding construction with appropriate materials provided along				
	the site boundary?		Ш		
2.09	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?				
2.10	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?				
2.11	Are valid noise emission label(s) affixed to all air compressors operating on site?				
2.12	Are all construction noise permit(s) applied for percussive piling work?				
2.13	Are construction noise permit(s) applied for general construction works during restricted				
	hours?		$ ule{}$		
2.14	Are valid construction noise permit(s) displayed at all vehicular exits?				
3.00	Water Quality		1		
3.01	Is effluent discharge license obtained for wastewater discharge from site?	Ш		Ш	
3.02	Is effluent discharged according to the effluent discharge license?				
3.03	Is wastewater discharge from site properly treated prior to discharge?				
3.04	Are perimeter channels provided to intercept storm runoff from outside the site?				
3.05	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to				
	remove sand/silt particles from runoff?		<u>Ľ</u> .		
3.06	Is surface runoff diverted to sedimentation facilities?	\square			
3.07	Is the drainage system properly maintained?				
3.08	Are construction works carefully programmed to minimize soil excavation works during	M			
	rainy seasons?				
3.09	Are exposed soil surface protected by paving as soon as possible to reduce the potential of				
	soil erosion?		Ш		
3.10	Are temporary access roads protected by crushed gravel?				
3.11	Is trench excavation avoided in the wet season as far as practicable, or if necessary,	/			
	backfilled in short sections after excavation?				



		N/A	Yes	No	Remarks
3.12	Are exposed slope surface properly protected?				
3.13	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric				
	during construction?		Ш	Ш	
3.14	Is runoff from wheel-washing facilities avoided?				
3.15	Is oil leakage or spillage prevented?				Koz
3.16	Are there any measures to prevent the release of oil and grease into the storm drainage system?				
3.17	Are the oil interceptors/ grease traps properly maintained?				
3.18	Are debris and rubbish generated on site collected, handled and disposed of properly to		\Box		1. 1
	avoid them entering the streams?				Kol
3.19	Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within				
	bunds of capacity equal to 110% of the storage capacity of the largest tank?				
3.20	Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains?				
3.21	Are sufficient chemical toilets provided on site to handle sewage from construction work		-		
	force?		\subseteq	Ш	
3.22	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by				
	the licensed contractors?			Ш	
3.23	Is concrete washing water properly collected and treated prior to discharge?	V			
4.00	Waste Management				
4.01	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at				
	public filling facilities and landfills?		<u>V</u>		
4.02	Is a recording system implemented to record the amount of wastes generated, recycled and		r		
	disposed of?				
4.03	Is chemical waste separated from other waste and collected by a licensed chemical waste				
	collector?				
4.04	Are trip tickets for chemical waste disposal available for inspection?			Ш	
4.05	Is chemical waste reused and recycled on site as far as practicable?				
4.06	Are all containers for chemical waste properly labelled?				
4.07	Is drip tray provided for chemical storage?				
4.08	Is chemical waste storage area used solely for storage of chemical waste and properly				
	labelled?				
4.09	Are incompatible chemical wastes stored in different areas?			Щ	
4.10	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?				
4.11	Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of				
	the largest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide?				
4:2	Is a routine cleaning and maintenance programme implemented for drainage systems,	+			
4.12	Is a routine cleaning and maintenance programme implemented for dramage systems, sump pits, and oil interceptors?				



7.00

7.01

Overall

Is the EM&A properly implemented in general?

aurecon

Member of the Aurecon Group Contract No.: 13/WSD/16 Mainlaying in Tseung Kwan O No Remarks 4.13 Are sufficient general refuse disposal/collection points provided on site? 4.14 Is general refuse disposed of properly and regularly? Ro 4.15 Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste? 4.16 Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation? 4.17 Are C&D wastes sorted on site? 4 18 Are C&D waste disposed of properly? 4.19 Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste? 4.20 Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site? Are the construction materials stored properly to minimize the potential for damage or contamination? 4.22 Is a dumping license obtained to deliver public fill to public filling areas? 5.00 Landscape and Visual 5.01 Are Is site hoarding provided? 5.02 Are vegetation disturbance minimized or soil protected to reduce potential soil erosion? 5.03 Is construction light oriented away from the sensitive receivers? 5.04 Is grass hydroseeding provided to slopes as soon as the completion of works? 5.05 Are damages to trees outside site boundary due construction works avoided? Are excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees? 5.07 Are the retained and transplanted tree(s) properly protected and in good conditions? 5.08 Are surgery works carried out for damaged trees? 6.01 Is site runoff properly treated to prevent any silly runoff? 6.02 Are silt trap installed and well-maintained? 6.03 Are stockpiles properly covered to avoid generating silty runoff? 6.04 Are construction works restricted to works area which are clearly defined?



Remark / Observation(s) / Re	ecommendation and Non-comp	pliance(s) of Weekly Site In	spection:	
ţ	oil leurage	should do the a should find drip small result in pil 2.	spection: (aif) deaning in the interpretary the general value and interpretary the general value and interpretary and interpretary in the second of the sec	
Signatures: ET Representative (Name: Grate Um)	Contractor's Representative (Name: Kan Ma)	WSD's Representative (Name:	IEC's Representative	





Contract No.: 13/WSD/16 Mainlaying in Tseung Kwan O

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

	tion Date: 6/6/2023 Inspected by: ET: Howard Char	wsi	D: <u>Mr. K</u>	c. Tec	-	
	tion time: () () () () () () () () () (
Weat						
Cond	ition Sunny Fine Overcast Drizzle Rain		Storm	Hazy		
Temp	erature 27 C Humidity High Moderate		.ow			
Wind	Calm Light Breeze Strong		1800x2715			
0.00		N/A	Yes	No		Remarks
0.00	General					
0.01	Is the current Environmental Permit displayed conspicuously at all vehicle site					
	entrances/exits for public's information at any time?					
1.00	Construction Dust		/			
1.01	Are dusty materials, such as excavated materials, building debris and construction					
	materials, and exposed earth surface properly covered to prevent dust emission?					
1.02	Are screenings, enclosures, water spraying, or vacuum cleaning devices provided to dusty	1				
	construction works for dust suppression?	\ <u>\</u>	\Box			
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?	17				
1.04						
	Are wheel-washing facilities with high-pressure water jets provided at all sites exits?					
1.05	Is wheel-washing provided to all vehicles leaving the site?					
1.06	Are road section near the site exit free from dusty material?					
1.07	Are all main haul roads inside the site paved or sprayed with water to minimize dust					
	emission during vehicle movement?					
1.08	Are water spraying provided immediately prior to any loading or transfer of dusty					
	materials?	V				
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and leaving					
	the site?					
1.10	Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of					
	boulders, poles, pillars sprayed with water to maintain the entire surface wet?		Ш		·	
1.11	Is exposed earth properly treated within six months after the last construction activity on		_			
	site?					
1.12	Does the operation of plants on site free form dark smoke emission?	П	V			
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?		Ħ	Ħ		
1.14	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3					
	sides?	V				
1.15	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered					
	areas?	$\sqrt{}$				
.16	Are hoardings of at least 2.4m high provided along the site boundary adjoining areas	2				
	accessible by the public?					
.17	Is open burning prohibited?		 	 		



		N/A	Yes	No	Remarks
2.00	Construction Noise (Airborne)				
2.00	Are quiet plants adopted on site?		V		
2.02	Are the PMEs operating on site well-maintained to minimize the generation of excessive				
	noise?			Ш	
2.03	Are plants throttled down or turned off when not in use?				
2.04	Are the plants known to emit noise strongly in one direction oriented to face away from				
	NSRs?	1/	Ш	Ш	
2.05	Are moveable barriers provided to screen NSRs from plant or noisy operations?	1/			
2.06	Are silencers, mufflers and enclosures provided to plants?				
2.07	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?		V		
2.08	Are purposely-built site hoarding construction with appropriate materials provided along				
	the site boundary?				
2.09	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to	1			
	nearby sensitive receivers?				
2.10	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?				
2.11	Are valid noise emission label(s) affixed to all air compressors operating on site?				
2.12	Are all construction noise permit(s) applied for percussive piling work?				
2.13	Are construction noise permit(s) applied for general construction works during restricted		\square		
	hours?		1		
2.14	Are valid construction noise permit(s) displayed at all vehicular exits?				
3.00	Water Quality				
3.01	Is effluent discharge license obtained for wastewater discharge from site?	Ш	V		
3.02	Is effluent discharged according to the effluent discharge license?				
3.03	Is wastewater discharge from site properly treated prior to discharge?		1/		Reminders
3.04	Are perimeter channels provided to intercept storm runoff from outside the site?				
3.05	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to				
	remove sand/silt particles from runoff?		Ш		
3.06	Is surface runoff diverted to sedimentation facilities?				
3.07	Is the drainage system properly maintained?				
3.08	Are construction works carefully programmed to minimize soil excavation works during				
	rainy seasons?	12/			1
3.09	Are exposed soil surface protected by paving as soon as possible to reduce the potential of				
	soil erosion?	V		Ш	
3.10	Are temporary access roads protected by crushed gravel?				
3.11	Is trench excavation avoided in the wet season as far as practicable, or if necessary,		60		
	ls trench excavation avoided in the wet season as far as practicable, of it necessary, backfilled in short sections after excavation?				
	Odektined in Short Sections after executation.				



Contract No.: 13/WSD/16 Mainlaying in Tseung Kwan O No Remarks 3.12 Are exposed slope surface properly protected? Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric 3.13 during construction? 3.14 Is runoff from wheel-washing facilities avoided? 3.15 Is oil leakage or spillage prevented? 3.16 Are there any measures to prevent the release of oil and grease into the storm drainage system? 3.17 Are the oil interceptors/ grease traps properly maintained? 3.18 Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams? 3.19 Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within bunds of capacity equal to 110% of the storage capacity of the largest tank? 3.20 Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains? 3.21 Are sufficient chemical toilets provided on site to handle sewage from construction work 3.22 Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors? 3.23 Is concrete washing water properly collected and treated prior to discharge? 4.00 Waste Management 4.01 Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills? 4.02 Is a recording system implemented to record the amount of wastes generated, recycled and disposed of? Is chemical waste separated from other waste and collected by a licensed chemical waste collector? 4.04 Are trip tickets for chemical waste disposal available for inspection? 4.05 Is chemical waste reused and recycled on site as far as practicable? Are all containers for chemical waste properly labelled? Is drip tray provided for chemical storage? 4.08 Is chemical waste storage area used solely for storage of chemical waste and properly labelled? 4.09 Are incompatible chemical wastes stored in different areas? 4.10 Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated? 4.11 Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide? 4.12 Is a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?



П	•	N/A	Yes	No	Remarks
4.13	Are sufficient general refuse disposal/collection points provided on site?				
4.14	Is general refuse disposed of properly and regularly?		V		
4.15	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?				n
4.16	Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation?				
4.17	Are C&D wastes sorted on site?		\checkmark		
4.18	Are C&D waste disposed of properly?				
4.19	Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste?				
4.20	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?		V		
4.21	Are the construction materials stored properly to minimize the potential for damage or contamination?				
4.22	Is a dumping license obtained to deliver public fill to public filling areas?				
5.00 5.01	Landscape and Visual Are Is site hoarding provided?				
5.02	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?				feminaler!
5.03	Is construction light oriented away from the sensitive receivers?				
5.04	Is grass hydroseeding provided to slopes as soon as the completion of works?				
5.05	Are damages to trees outside site boundary due construction works avoided?		\checkmark		
5.06	Are excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees?				
5.07	Are the retained and transplanted tree(s) properly protected and in good conditions?				
5.08	Are surgery works carried out for damaged trees?				
6.00 6.01	Ecology Is site runoff properly treated to prevent any silly runoff?				
6.02	Are silt trap installed and well-maintained?	V			
6.03	Are stockpiles properly covered to avoid generating silty runoff?				
6.04	Are construction works restricted to works area which are clearly defined?				
7.00 7.01	Overall Is the EM&A properly implemented in general?				





Remark / Observa	tion(s) / Reco	mmendation and Non-	compliance(s) of We	eekly Site Inspecti	on:		
Rem	inderi						
		Contracter g the co	Wez ri	emindeel moderali	, to re	e avoid	deno
	rain i	Contractor Water In e discharg	too. 1	rening Pen la	led that I be	the treated	
Signatures	:						
ET Representat	tive	Contractor's Representative	WSD's Representa		IEC's Representative		
٨ \	-	W	L)	7	210pi 000man 10		
(Name: Min	w. (Iran)	(Name: Ken Ma) (Name:150	: KUA Cruai)	(Name:)	





Contract No.: 13/WSD/16 Mainlaying in Tseung Kwan O

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

nspection	Contractor: The Renal Section 19	WSD: _	Mr.K.F	Tena	
Inspection	Time: 0920 - 11200				
Weather Condition	Compared Control Rain	Storn	m _	Hazy	
Tempera	ture 30 C Humidity High Moderate	Low			
Wind	Calm Light Breeze Strong				
		N/A	Yes	No	Remarks
0.00	General				
0.01	Is the current Environmental Permit displayed conspicuously at all vehicle site		$\sqrt{}$		
	entrances/exits for public's information at any time?				
1.00	Construction Dust				
1.01	Are dusty materials, such as excavated materials, building debris and construction		\bigvee		
	materials, and exposed earth surface properly covered to prevent dust emission?				
1.02	Are screenings, enclosures, water spraying, or vacuum cleaning devices provided to dusty	1/	\Box		
	construction works for dust suppression?		=	=	
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?				
1.04	Are wheel-washing facilities with high-pressure water jets provided at all sites exits?				
1.05	Is wheel-washing provided to all vehicles leaving the site?				
1.06	Are road section near the site exit free from dusty material?		$\sqrt{}$		
1.07	Are all main haul roads inside the site paved or sprayed with water to minimize dust				
	emission during vehicle movement?	V		_Ц_	
1.08	Are water spraying provided immediately prior to any loading or transfer of dusty				
	materials?				
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?				
1.10	Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of				
	boulders, poles, pillars sprayed with water to maintain the entire surface wet?			Щ	
1.11	Is exposed earth properly treated within six months after the last construction activity on		<u> </u>		
	site?				
1.12	Does the operation of plants on site free form dark smoke emission?		V		
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?				
1.14	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3				
	sides?				
1.15	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?				
1.16	Are hoardings of at least 2.4m high provided along the site boundary adjoining areas	/			
1.10	accessible by the public?				-
1.17	Is open burning prohibited?		V		



Contract No.: 13/WSD/16 Mainlaying in Tseung Kwan O No Remarks Construction Noise (Airborne) 2.00 2.01 Are quiet plants adopted on site? Are the PMEs operating on site well-maintained to minimize the generation of excessive 2.02 2.03 Are plants throttled down or turned off when not in use? 2.04 Are the plants known to emit noise strongly in one direction oriented to face away from NSRs? 2.05 Are moveable barriers provided to screen NSRs from plant or noisy operations? 2.06 Are silencers, mufflers and enclosures provided to plants? 2.07 Are the hoods, cover panels and inspection hatches of PMEs closed during operation? Are purposely-built site hoarding construction with appropriate materials provided along 2.08 2.09 Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers? 2.10 Are valid noise emission label(s) affixed to all hand-held breakers operating on site? 2.11 Are valid noise emission label(s) affixed to all air compressors operating on site? 2.12 Are all construction noise permit(s) applied for percussive piling work? 2.13 Are construction noise permit(s) applied for general construction works during restricted hours? 2.14 Are valid construction noise permit(s) displayed at all vehicular exits? 3.00 Water Quality 3.01 Is effluent discharge license obtained for wastewater discharge from site? 3.02 Is effluent discharged according to the effluent discharge license? 3.03 Is wastewater discharge from site properly treated prior to discharge? 3.04 Are perimeter channels provided to intercept storm runoff from outside the site? 3.05 Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to remove sand/silt particles from runoff? 3.06 Is surface runoff diverted to sedimentation facilities? 3.07 Is the drainage system properly maintained? Are construction works carefully programmed to minimize soil excavation works during 3.08 rainy seasons? 3.09 Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion? 3.10 Are temporary access roads protected by crushed gravel? 3.11 Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation?





		N/A	Yes	No	Remarks
3.12	Are exposed slope surface properly protected?	$\sqrt{}$			
3.13	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?				
3.14	Is runoff from wheel-washing facilities avoided?		一	$\overline{\Box}$	
3.15	Is oil leakage or spillage prevented?			旹	
		Ш_			
3.16	Are there any measures to prevent the release of oil and grease into the storm drainage system?		$\sqrt{}$		
3.17	Are the oil interceptors/ grease traps properly maintained?				
3.18	Are debris and rubbish generated on site collected, handled and disposed of properly to				
	avoid them entering the streams?		\vee		
3.19	Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within				
	bunds of capacity equal to 110% of the storage capacity of the largest tank?				
3.20	Are tanks, containers, storage area bunded and the locations locked as far as possible from				
	the sensitive watercourse and stormwater drains?				
3.21	Are sufficient chemical toilets provided on site to handle sewage from construction work				j
	force?				
3.22	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by				
	the licensed contractors?		لتا_		
3.23	Is concrete washing water properly collected and treated prior to discharge?				
4.00	Waste Management				
4.00	Waste Management Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at				
100000	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills?				
100000	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at				
4.01	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills? Is a recording system implemented to record the amount of wastes generated, recycled and disposed of?				
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4.01	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills? Is a recording system implemented to record the amount of wastes generated, recycled and disposed of? Is chemical waste separated from other waste and collected by a licensed chemical waste collector?				
4.01	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills? Is a recording system implemented to record the amount of wastes generated, recycled and disposed of? Is chemical waste separated from other waste and collected by a licensed chemical waste collector? Are trip tickets for chemical waste disposal available for inspection?				
4.01 4.02 4.03 4.04 4.05	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills? Is a recording system implemented to record the amount of wastes generated, recycled and disposed of? Is chemical waste separated from other waste and collected by a licensed chemical waste collector? Are trip tickets for chemical waste disposal available for inspection? Is chemical waste reused and recycled on site as far as practicable? Are all containers for chemical waste properly labelled? Is drip tray provided for chemical storage?				00
4.01 4.02 4.03 4.04 4.05	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills? Is a recording system implemented to record the amount of wastes generated, recycled and disposed of? Is chemical waste separated from other waste and collected by a licensed chemical waste collector? Are trip tickets for chemical waste disposal available for inspection? Is chemical waste reused and recycled on site as far as practicable? Are all containers for chemical waste properly labelled?				00
4.01 4.02 4.03 4.04 4.05 4.06	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills? Is a recording system implemented to record the amount of wastes generated, recycled and disposed of? Is chemical waste separated from other waste and collected by a licensed chemical waste collector? Are trip tickets for chemical waste disposal available for inspection? Is chemical waste reused and recycled on site as far as practicable? Are all containers for chemical waste properly labelled? Is drip tray provided for chemical storage? Is chemical waste storage area used solely for storage of chemical waste and properly labelled?				_00\
4.01 4.02 4.03 4.04 4.05 4.06	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills? Is a recording system implemented to record the amount of wastes generated, recycled and disposed of? Is chemical waste separated from other waste and collected by a licensed chemical waste collector? Are trip tickets for chemical waste disposal available for inspection? Is chemical waste reused and recycled on site as far as practicable? Are all containers for chemical waste properly labelled? Is drip tray provided for chemical storage? Is chemical waste storage area used solely for storage of chemical waste and properly labelled? Are incompatible chemical wastes stored in different areas?				
4.01 4.02 4.03 4.04 4.05 4.06 4.07 4.08	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills? Is a recording system implemented to record the amount of wastes generated, recycled and disposed of? Is chemical waste separated from other waste and collected by a licensed chemical waste collector? Are trip tickets for chemical waste disposal available for inspection? Is chemical waste reused and recycled on site as far as practicable? Are all containers for chemical waste properly labelled? Is drip tray provided for chemical storage? Is chemical waste storage area used solely for storage of chemical waste and properly labelled? Are incompatible chemical wastes stored in different areas? Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?				_00\
4.01 4.02 4.03 4.04 4.05 4.06 4.07 4.08	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills? Is a recording system implemented to record the amount of wastes generated, recycled and disposed of? Is chemical waste separated from other waste and collected by a licensed chemical waste collector? Are trip tickets for chemical waste disposal available for inspection? Is chemical waste reused and recycled on site as far as practicable? Are all containers for chemical waste properly labelled? Is drip tray provided for chemical storage? Is chemical waste storage area used solely for storage of chemical waste and properly labelled? Are incompatible chemical wastes stored in different areas? Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated? Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of				00
4.01 4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills? Is a recording system implemented to record the amount of wastes generated, recycled and disposed of? Is chemical waste separated from other waste and collected by a licensed chemical waste collector? Are trip tickets for chemical waste disposal available for inspection? Is chemical waste reused and recycled on site as far as practicable? Are all containers for chemical waste properly labelled? Is drip tray provided for chemical storage? Is chemical waste storage area used solely for storage of chemical waste and properly labelled? Are incompatible chemical wastes stored in different areas? Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated? Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or of 20% by volume of the chemical waste stored in that area,				00\
4.01 4.02 4.03 4.04 4.05 4.06 4.07 4.08 4.09	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills? Is a recording system implemented to record the amount of wastes generated, recycled and disposed of? Is chemical waste separated from other waste and collected by a licensed chemical waste collector? Are trip tickets for chemical waste disposal available for inspection? Is chemical waste reused and recycled on site as far as practicable? Are all containers for chemical waste properly labelled? Is drip tray provided for chemical storage? Is chemical waste storage area used solely for storage of chemical waste and properly labelled? Are incompatible chemical wastes stored in different areas? Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated? Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide?				
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7.00

7.01

Overall

Is the EM&A properly implemented in general?

aurecon

Member of the Aurecon Group Contract No.: 13/WSD/16 Mainlaying in Tseung Kwan O Remarks 4.13 Are sufficient general refuse disposal/collection points provided on site? 4.14 Is general refuse disposed of properly and regularly? Are appropriate measures adopted to minimize windblown litter and dust during 4.15 transportation of waste? Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation? 4.17 Are C&D wastes sorted on site? 4.18 Are C&D waste disposed of properly? 4.19 Are unused C&D materials or chemicals recycled or reused to reduce the quantity of 4.20 Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site? Are the construction materials stored properly to minimize the potential for damage or 421 contamination? 4.22 Is a dumping license obtained to deliver public fill to public filling areas? 5.00 Landscape and Visual 5.01 Are Is site hoarding provided? 5.02 Are vegetation disturbance minimized or soil protected to reduce potential soil erosion? 5.03 Is construction light oriented away from the sensitive receivers? 5.04 Is grass hydroseeding provided to slopes as soon as the completion of works? 5.05 Are damages to trees outside site boundary due construction works avoided? Are excavation works carried out manually instead of machinery operation within 2.5m 5.06 vicinity of any preserved trees? 5.07 Are the retained and transplanted tree(s) properly protected and in good conditions? 5.08 Are surgery works carried out for damaged trees? 6.00 6.01 Is site runoff properly treated to prevent any silly runoff? 6.02 Are silt trap installed and well-maintained? 6.03 Are stockpiles properly covered to avoid generating silty runoff? 6.04 Are construction works restricted to works area which are clearly defined?



Remark / Observat	ion(s) / Reco	mmendation and No	n-complia	nce(s) of Weekly Si	te Inspection:			
	eatlar							
		nical co	ntam Pits	ers sha)	uld be	z Store	d wi	th
0022	Rain disch specik	water in and liced in the	- tre the	ench sh dischage ischage	ould e have liconce.	ke freat l meet (Pit D	ted be the n	efore equirement bout)
0032		Contractor at the ce run of						
				/				
Signature	s:							
ET Representa	ative	Contractor's Representative		WSD's Representative		EC's epresentative		
Represente	1	//		The state of the s		,		
(Namet)	ut Chard	(Name: Ken	(q)	(Name:	,) (Name:)	





Contract No.: 13/WSD/16 Mainlaying in Tseung Kwan O

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection Date: 20/06/2023 Inspected by: ET: Grace Livry WSD: Mr. Tso. Ka Chun.							
	ion Time: 9:30 Contractor: My, Kon Ma) IEC:_					
Weath							
Condi	Sunny Fine Overcast Drizzle Rain	Sto	orm	Hazy			
Tempe	erature . O C Humidity High Moderate	Lo	w				
Wind	Calm Light Breeze Strong						
		N/A	Yes	No	Remarks		
0.00	General						
0.01	Is the current Environmental Permit displayed conspicuously at all vehicle site		abla				
1.00	entrances/exits for public's information at any time?						
1.00	Construction Dust						
1.01	Are dusty materials, such as excavated materials, building debris and construction						
1.02	materials, and exposed earth surface properly covered to prevent dust emission?						
1.02	Are screenings, enclosures, water spraying, or vacuum cleaning devices provided to dusty construction works for dust suppression?						
1.03			- J	=			
	Are fumes or smoke emitting plants or construction activities shielded by a screen?			Ш			
1.04	Are wheel-washing facilities with high-pressure water jets provided at all sites exits?						
1.05	Is wheel-washing provided to all vehicles leaving the site?	$\sqrt{}$					
1.06	Are road section near the site exit free from dusty material?		\square				
1.07	Are all main haul roads inside the site paved or sprayed with water to minimize dust						
	emission during vehicle movement?	\checkmark					
1.08	Are water spraying provided immediately prior to any loading or transfer of dusty						
	materials?			Ш	1		
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and leaving		. 7				
1.10	the site?			Ш_	-		
1.10	Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of						
1.11	boulders, poles, pillars sprayed with water to maintain the entire surface wet?		<u> </u>				
1.11	Is exposed earth properly treated within six months after the last construction activity on site?						
1.12	Does the operation of plants on site free form dark smoke emission?	믁		<u> </u>			
			\subseteq				
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?	V					
1.14	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3						
	sides?						
1.15	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?						
1.16	Are hoardings of at least 2.4m high provided along the site boundary adjoining areas						
	accessible by the public?						
1.17	Is open burning prohibited?	\dashv	7	믐			
	6 krymorod		\subseteq				



		N/A	Yes	No	Remarks
2.00	Construction Noise (Airborne)				
2.01	Are quiet plants adopted on site?				
2.02	Are the PMEs operating on site well-maintained to minimize the generation of excessive				
	noise?		V		E. C. Maria Maria Maria
2.03	Are plants throttled down or turned off when not in use?				
2.04	Are the plants known to emit noise strongly in one direction oriented to face away from				
	NSRs?			Ш	
2.05	Are moveable barriers provided to screen NSRs from plant or noisy operations?				
2.06	Are silencers, mufflers and enclosures provided to plants?				
2.07	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?				
2.08	Are purposely-built site hoarding construction with appropriate materials provided along				
	the site boundary?				
2.09	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?				
2.10	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?	M			
2.11	Are valid noise emission label(s) affixed to all air compressors operating on site?				
2.12	Are all construction noise permit(s) applied for percussive piling work?				
2.13	Are construction noise permit(s) applied for general construction works during restricted				
	hours?		M,		
2.14	Are valid construction noise permit(s) displayed at all vehicular exits?				
3.00	Water Quality				
3.01	Is effluent discharge license obtained for wastewater discharge from site?				
3.02	Is effluent discharged according to the effluent discharge license?				
3.03	Is wastewater discharge from site properly treated prior to discharge?				
3.04	Are perimeter channels provided to intercept storm runoff from outside the site?				
3.05	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to	-/-			
	remove sand/silt particles from runoff?				
3.06	Is surface runoff diverted to sedimentation facilities?				
3.07	Is the drainage system properly maintained?				
3.08	Are construction works carefully programmed to minimize soil excavation works during				
	rainy seasons?				
3.09	Are exposed soil surface protected by paving as soon as possible to reduce the potential of				
	soil erosion?				
3.10	Are temporary access roads protected by crushed gravel?				
3.11	Is trench excavation avoided in the wet season as far as practicable, or if necessary,				
	backfilled in short sections after excavation?				



		N/A	Yes	No	Remarks
3.12	Are exposed slope surface properly protected?				
3.13	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?				
3.14	Is runoff from wheel-washing facilities avoided?			$\overline{\Box}$	
3.15	Is oil leakage or spillage prevented?				
3.16	Are there any measures to prevent the release of oil and grease into the storm drainage system?				
3.17	Are the oil interceptors/ grease traps properly maintained?				
3.18	Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams?				
3.19	Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within bunds of capacity equal to 110% of the storage capacity of the largest tank?		\square		
3.20	Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains?		M		
3.21	Are sufficient chemical toilets provided on site to handle sewage from construction work force?				
3.22	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors?				
3.23	Is concrete washing water properly collected and treated prior to discharge?	V			
4.00	Waste Management			- Ar - ,	
4.01	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills?			П	
4.02	Is a recording system implemented to record the amount of wastes generated, recycled and			<u> </u>	
	disposed of?				
4.03	Is chemical waste separated from other waste and collected by a licensed chemical waste collector?				
4.04	Are trip tickets for chemical waste disposal available for inspection?				
4.05	Is chemical waste reused and recycled on site as far as practicable?				
4.06	Are all containers for chemical waste properly labelled?				
4.07	Is drip tray provided for chemical storage?				001
4.08	Is chemical waste storage area used solely for storage of chemical waste and properly labelled?				
4.09	Are incompatible chemical wastes stored in different areas?	V			
4.10	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?				
4.11	Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of				
	the largest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide?		V		
4.12	Is a routine cleaning and maintenance programme implemented for drainage systems,				
	sump pits, and oil interceptors?				



	Contract 1101 107 (1827) 10 11 11 11 11 11 11 11				
		N/A	Yes	No	Remarks
4.13	Are sufficient general refuse disposal/collection points provided on site?				
4.14	Is general refuse disposed of properly and regularly?				
4.15	Are appropriate measures adopted to minimize windblown litter and dust during				
	transportation of waste?	Ш	Ľ	Ш	
4.16	Are individual collectors for aluminum cans, plastic bottles and packaging material and				
4.17	office paper provided to encourage waste segregation?			<u> </u>	
	Are C&D wastes sorted on site?	Ш		Ш	
4.18	Are C&D waste disposed of properly?		V		
4.19	Are unused C&D materials or chemicals recycled or reused to reduce the quantity of				
	waste?	Ш	$\overline{\mathcal{L}}$		
4.20	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?				
4.21	Are the construction materials stored properly to minimize the potential for damage or				
	contamination?				
4.22	Is a dumping license obtained to deliver public fill to public filling areas?				
5.00	Landscape and Visual				
5.01	Are Is site hoarding provided?	\subseteq	Ц.		
5.02	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?				
5.03	Is construction light oriented away from the sensitive receivers?				
5.04	Is grass hydroseeding provided to slopes as soon as the completion of works?				
5.05	Are damages to trees outside site boundary due construction works avoided?				00>
5.06	Are excavation works carried out manually instead of machinery operation within 2.5m				
	vicinity of any preserved trees?	\subseteq	Ш	Ш	
5.07	Are the retained and transplanted tree(s) properly protected and in good conditions?				
5.08	Are surgery works carried out for damaged trees?				
6.00	Ecology				
6.01	Is site runoff properly treated to prevent any silly runoff?		\checkmark		
6.02	Are silt trap installed and well-maintained?				
6.03	Are stockpiles properly covered to avoid generating silty runoff?				
6.04	Are construction works restricted to works area which are clearly defined?				
7.00	Overall				
7.01	Is the EM&A properly implemented in general?		\vee		





Contract No.: 13/WSD/16 Mainlaying in Tseung Kwan O
Remark / Observation(s) / Recommendation and Non-compliance(s) of Weekly Site Inspection:
Reminder; IVI) Observation. On the Contractor should provide the thrip tray
US servation. Ool The Contractor Should provide
to store the Chemical Container in Pit Tr.
002 The Contractor should provide the tree protect zone
inpit 12.
Signatures:
ET Contractor's WSD's IEC's Representative Representative Representative Representative
b- u Ho
(Name: Grace Livy) (Name: Ken Ma) (Name: 18t / Grun) (Name:)





Contract No.: 13/WSD/16 Mainlaying in Tseung Kwan O

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection	Contractor: Mr Ren MA.	WSD:\(\sigma\)	Mr. Ale	Cha-	Ar
Inspection	Time: 4:00 - 15:00				
Weather		CT Store		Hazy	
Condition		Low		nazy	
Tempera	ture SI. > C	Low			
Wind	Calm Light Breeze Suong			,	
		N/A	Yes	No	Remarks
0.00	General				
	Is the current Environmental Permit displayed conspicuously at all vehicle site				
0.01	entrances/exits for public's information at any time?				
1.00	Construction Dust				
1.00	Are dusty materials, such as excavated materials, building debris and construction				
1.01	materials, and exposed earth surface properly covered to prevent dust emission?				
1.02	Are screenings, enclosures, water spraying, or vacuum cleaning devices provided to dusty				
1.02	construction works for dust suppression?				
1.03					
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?		_ <u></u>		
1.04	Are wheel-washing facilities with high-pressure water jets provided at all sites exits?				
1.05	Is wheel-washing provided to all vehicles leaving the site?				
1.06	Are road section near the site exit free from dusty material?				
1.07	Are all main haul roads inside the site paved or sprayed with water to minimize dust	10			
	emission during vehicle movement?		ᆜ		
1.08	Are water spraying provided immediately prior to any loading or transfer of dusty				
	materials?				
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and leaving				
	the site?				
1.10	Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of				
	boulders, poles, pillars sprayed with water to maintain the entire surface wet?				
1.11	Is exposed earth properly treated within six months after the last construction activity on				
	site?			_ <u></u>	
1.12	Does the operation of plants on site free form dark smoke emission?				
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?				
1.14	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3				
	sides?				
1.15	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered				
	areas?				
1.16	Are hoardings of at least 2.4m high provided along the site boundary adjoining areas	-			
	accessible by the public?	\square		_ <u> </u>	
1.17	Is open burning prohibited?		\checkmark		
1					



Contract No.: 13/WSD/16 Mainlaying in Tseung Kwan O No Remarks Construction Noise (Airborne) 2.00 2.01 Are quiet plants adopted on site? Are the PMEs operating on site well-maintained to minimize the generation of excessive 2.02 2.03 Are plants throttled down or turned off when not in use? 2.04 Are the plants known to emit noise strongly in one direction oriented to face away from NSRs? 2.05 Are moveable barriers provided to screen NSRs from plant or noisy operations? 2.06 Are silencers, mufflers and enclosures provided to plants? 2.07 Are the hoods, cover panels and inspection hatches of PMEs closed during operation? Are purposely-built site hoarding construction with appropriate materials provided along 2.08 the site boundary? 2.09 Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers? 2.10 Are valid noise emission label(s) affixed to all hand-held breakers operating on site? 2.11 Are valid noise emission label(s) affixed to all air compressors operating on site? 2.12 Are all construction noise permit(s) applied for percussive piling work? 2.13 Are construction noise permit(s) applied for general construction works during restricted hours? 2.14 Are valid construction noise permit(s) displayed at all vehicular exits? 3.00 Water Quality 3.01 Is effluent discharge license obtained for wastewater discharge from site? 3.02 Is effluent discharged according to the effluent discharge license? 3.03 Is wastewater discharge from site properly treated prior to discharge? 3.04 Are perimeter channels provided to intercept storm runoff from outside the site? 3.05 Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to remove sand/silt particles from runoff? 3.06 Is surface runoff diverted to sedimentation facilities? 3.07 Is the drainage system properly maintained? Are construction works carefully programmed to minimize soil excavation works during 3.08 3.09 Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion? 3.10 Are temporary access roads protected by crushed gravel? 3.11 Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation?



21-27		N/A	Yes	No	Remarks
3.12	Are exposed slope surface properly protected?	V			
3.13	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?				
3.14	Is runoff from wheel-washing facilities avoided?			$\overline{\Box}$	
3.15	Is oil leakage or spillage prevented?				
3.16	Are there any measures to prevent the release of oil and grease into the storm drainage system?				
3.17	Are the oil interceptors/ grease traps properly maintained?				
3.18	Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams?				
3.19	Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within bunds of capacity equal to 110% of the storage capacity of the largest tank?				
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3.21	Are sufficient chemical toilets provided on site to handle sewage from construction work force?				
3.22	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by		M		
3.23	the licensed contractors? Is concrete washing water properly collected and treated prior to discharge?		屵		
4.00	Waste Management			Ш	
4.01	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills?				
4.02	Is a recording system implemented to record the amount of wastes generated, recycled and disposed of?				
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4.04	Are trip tickets for chemical waste disposal available for inspection?	V			
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4.07	Is drip tray provided for chemical storage?				
4.08	Is chemical waste storage area used solely for storage of chemical waste and properly labelled?		\checkmark		
4.09	Are incompatible chemical wastes stored in different areas?	V			
4.10	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?				
4.11	Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of				
	the largest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide?				
4.12	Is a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?				



		N/A	Yes	No	Remarks
4.13	Are sufficient general refuse disposal/collection points provided on site?				
4.14	Is general refuse disposed of properly and regularly?				kol
4.15	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?				
4.16	Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation?				
4.17	Are C&D wastes sorted on site?				
4.18	Are C&D waste disposed of properly?		\bigvee		
4.19	Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste?				
4.20	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?		\square		
4.21	Are the construction materials stored properly to minimize the potential for damage or contamination?		\checkmark		
4.22	Is a dumping license obtained to deliver public fill to public filling areas?		V		
5.00 5.01	Landscape and Visual Are Is site hoarding provided?				
5.02	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?				
5.03	Is construction light oriented away from the sensitive receivers?				
5.04	Is grass hydroseeding provided to slopes as soon as the completion of works?	\square			
5.05	Are damages to trees outside site boundary due construction works avoided?				00
5.06	Are excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees?	\square			
5.07	Are the retained and transplanted tree(s) properly protected and in good conditions?				
5.08	Are surgery works carried out for damaged trees?				
6.00 6.01	Ecology Is site runoff properly treated to prevent any silly runoff?				
6.02	Are silt trap installed and well-maintained?				
6.03	Are stockpiles properly covered to avoid generating silty runoff?				
6.04	Are construction works restricted to works area which are clearly defined?				
7.00 7.01	Overall Is the EM&A properly implemented in general?				





	Contract No.: 13/W	SD/16 Mainlaying in T	Seung Kwan O
Remark / Observation(s) / Reco	mmendation and Non-complia	ance(s) of Weekly Site Inspec	tion:
Reminder.			
Rol, T	he Contractor Small C	le the daily cla	using inthe site area.
K02. (The contractor Shall	properly display A	urm Musel on exacuator.
fn ' -Λ(
Observation.			/
0.1 :	The Contractor should	I provide the fre	e proveted zone and
b + 2	1		tm. = 124/10
- Perone 2	f. place	, 1 _ SOIL N. J. 10Y.	træs. in pitem.
Signaturas			
Signatures:		WCDI	VEC!
ET Representative	Contractor's Representative	WSD's Representative	IEC's Representative
6	W	9	M
(Name: Gue Hong	(Name: Ken Ma)	(Name: Alex Colling	(Name: Hex Chax
			M





Appendix M

Proactive Environmental Protection Proforma





Proactive Environmental Protection for the Next Reporting Month

Reporting Period	Activity	Major Environmental Impact	Environmental Mitigation Measure
1- 31 July 2023	 Excavation of trench Mainlaying of pipe Backfilling of the trench Work fronts for pipe jacking 	- Construction dust - Noise generation; - Construction waste - Impact of water quality - Ecology	 Dust suppression by regular wetting and water spraying Reduction of noise from equipment and machinery on-site Sorting and storage of general refuse and construction waste Chemical shall be stored properly with drip tray. Treatment of water with water treatment facilities before discharge. Rainwater pumped from trench should be discharged via waster water treatment facilities. Retained tree shall be carefully protected and tree protect zone should be established.





Appendix N

Impact Monitoring Schedule of Next Reporting Month

Contract No. 13/WSD/16 Mainlaying in Tseung Kwon O

Tentative Environmental Monitoring Schedule (July 2023)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
					7	Impact Noise Monitoring
9	10	11	12	13	Impact Noise Monitoring	15
16	17	18	19	Impact Noise Monitoring	21	22
23	24	25	Impact Noise Monitoring	27	28	29
30	31					

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