





Contract No. 13/WSD/16

Mainlaying in Tseung Kwan O

Monthly EM&A Report No. 53 (Period from 1 to 31 December 2022)

December 2022 (Rev. 1)

	Prepared by:	Reviewed and Certified by:
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Position	Environmental Team Member Environmental Team Leade	
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Date:	19 January 202319 January 2023	



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

Your reference:

Our reference:

HKWSD201/50/108559

Date: 19 January 2023

Attention: Mr Y M Chan

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.53

We refer to emails of 11 and 19 January 2023 attaching Monthly EM&A Report No.53 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

Jamer Choi Independent Environmental Checker

CPSJ/KSYL/lsmt







Revision History

Rev.	DESCRIPTION OF MODIFICATION	DATE
0	1 st Submission	11/01/2023
1	Revised according to IEC comments	19/01/2023



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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 53rd 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 0 (TKO) during the reporting period from 1 December to 31 December 2022.
- 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

Location	Construction activities carried in the reporting month
Wan Do Dood and TKO Area 127	Open trench method
Wall FO KOAU allu TKO Alea 137	Water main installation inside sleeve pipe
TKO Promenade (Stage 1	Open trench method
Landfill) & Po Yap Road	Water main installation inside sleeve pipe
Roundabout	 Trenchless Method (sleeve pipe)
	Open trench method
HK Velodrome	Water main installation inside sleeve pipe
	 Trenchless Method (sleeve pipe)
Po Lam Road South / Ling Hong	Open trench method
Road	Water main installation inside sleeve pipe
Tsui Lam Road / Abandoned	Open trench method
Road	Pile cap construction

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

- 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 1, 7, 13, 19 and 30 December 2022 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 525 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		
TKO Promenade (Stage 1 Landfill) & Po Yap Road Roundabout	 Open trench method Water main installation inside sleeve pipe Trenchless Method (sleeve pipe) 		
HK Velodrome	 Open trench method Water main installation inside sleeve pipe Trenchless Method (sleeve pipe) 		
Po Lam Road South / Ling Hong Road	 Open trench method Water main installation inside sleeve pipe 		
Tsui Lam Road / Abandoned Road	Open trench method		

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 53rd Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 December to 31 December 2022.

1.3 Project Organization

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





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 1.2Summary of the Construction Works Undertaken during the Reporting Month

Location	Construction activities carried out in the reporting month
Wan Do Dood and TKO Area 127	Open trench method
Wall PO Road and TRO Alea 137	Water main installation inside sleeve pipe
TKO Promenade (Stage 1	Open trench method
Landfill) & Po Yap Road	Water main installation inside sleeve pipe
Roundabout	Trenchless Method (sleeve pipe)
	Open trench method
HK Velodrome	Water main installation inside sleeve pipe
	 Trenchless Method (sleeve pipe)
Po Lam Road South / Ling Hong	Open trench method
Road	Water main installation inside sleeve pipe
Tsui Lam Road / Abandoned	Open trench method
Road	Pile cap construction

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

|--|

Defenence No	Valid Period		Domonia			
Reference No.	From	То	Remark			
Variation of Environmen	Variation of Environmental Permit					
EP no.: EP-503/2015/A			N/A			
Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation						
423775			N/A			
Chemical Waste Producer Registration						
5213-839-P3287-01			N/A			

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Deference No	Valid Period		Domorik		
Reference No.	From	То	Remark		
Billing Account for Dispo	Billing Account for Disposal of Construction Waste				
A/C no.: 7029491			N/A		
Water Discharge Licence					
WT00032336-2018	10 Dec 2018 31 Dec 2023		N/A		
Construction Noise Permit					
GW-RE1145-22 21 Oct 2022 20 Jan 2023 Wan Po Road near Chun War		Wan Po Road near Chun Wang ST.			
GW-RE1268-2217 Nov 202231 Jan 2023Construction site near junc Road and Pung Lo		Construction site near junction of Wan Po Road and Pung Loi Road			

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	
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 1, 7, 13, 19 and 30 December 2022 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**.

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

 Table 2.1 Noise Monitoring Parameters, Time, Frequency and Duration

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.

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

Table 2.2Noise Monitoring Location



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 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.

Equipment	Brand and Model	Serial Number	Date of Calibration	Expiry Date
Sound Level Meter	Svantek 971	96062	27/06/2022	26/06/2023
Sound Level Meter Calibrator	RION NC-75	34524163	09/05/2022	08/05/2023
Pocket Wind Meter Anemometer	Kestrel 1000 Wind Meter	Nil	Nil	Nil

Table 2.3	Impact Noise	Monitoring	Equipment
			29-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-



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 2.4Action and Limit Levels for Noise

Time Period	Action Level	Limit Level (dB(A))		
0700-1900 on normal weekdays	When one documented complaint is received from any one of the noise sensitive receivers	 70 dB(A) for school and 65 dB(A) during examination period 		
Notes: (a) Limits specified in the GW-TM and IND-TM for construction and operation 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 1, 7, 13, 19 and 30 December 2022. 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.

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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

	Quantity					
			Non-inert C&D Materials			
Reporting period Inert C&D Chem Materials Was	Chemical Waste	Others, e.g., General Refuse disposed at Landfill (in '000m ³)	Recycled materials			
	(in 000m ³) (in 000kg)		Paper/cardboard (in '000kg)	Plastics (in '000kg)	Metals (in '000kg)	
Dec 2022	0.874	0.000	0.002	0.051	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**.

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













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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% O ₂	<19% 02
Methane (CH ₄)	>10% LEL	>20% LEL
Carbon Dioxide (CO ₂)	>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**.



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

Table 4.2Landfill Gas Monitoring Equipment

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 525 times. All the measured results were presented in **Appendix J** and were within the Action and Limit Levels.

Parameters	Level	Action
$O_{\rm VIV}$ (O ₂)	Action Level < $19\% O_2$	Ventilate trench/void to restore O_2 to > 19%
Oxygen (02)		Stop works
	Limit Level < $19\% O_2$	Evacuate personnel/prohibit entry
		Increase ventilation to restore O_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
	Limit Level >20% LEL	Evacuate personnel/prohibit entry
		Increase ventilation to restore CH ₄ to<10% LEL
Carbon Diovide	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%

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



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 1, 7, 13, 19 and 30 December 2022 as construction works were conducted within 300m to the noise sensitive receiver. Detailed monitoring results can be found in **Appendix G**.

Landfill gas monitoring was carried out by the Registered Safety Officer of the Contractor at the excavation locations and within the consultation zones for 525 times. All the measured results were presented in **Appendix J** and were within the Action and Limit Levels.

No Action and Limit Level exceedance was recorded during the reporting period.

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 6, 15, 22 and 28 December 2022 at the site portions list in **Table 6.1** below. One joint site inspection with IEC was carried out on 28 December 2022.

Table 6.1 Site Inspection Record

Date	Inspected Site Portion	Time
6 December 2022	Portion J	09:30 - 11:00
15 December 2022	Portion J	14:30 - 15:30
22 December 2022	Portion J	09:30 - 10:30
28 December 2022	Portion J	14:00 - 15:00

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
6 December 2022	 Oil leakage shall be avoided and prevented for excavator and other equipment. Contractor was reminded to repair the equipment immediately. (Pit O1). Chemical container should be stored with drip tray. (Pit Y) Polluted water in drip tray and rainwater in trench shall be cleared and treated before discharge. (Pit O1) Contractor was required to review the capacity of sedimentation tank to ensure the discharge was comply with effluent discharge license reequipment. 	 The excavator was repaired, no oil leakage was observed. Chemical container was removed. The rainwater in trench was treated before discharge. Sedimentation tank was cleaned regularly.
15 December 2022	1. Drip tray should be provided for chemical storage. (WPR1)	1. Chemical was removed.
22 December 2022	No major environmental deficiency was identified.	N/A
28 December 2022	1. Chemical containers found near the power generators shall be stored properly or provide a drip tray at Pit M and Pit O.	1. Chemical was removed.

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
Wan Po Road and TKO	Open trench method
Area 137	Water main installation inside sleeve pipe
TKO Promenade (Stage 1	Open trench method
Landfill) & Po Yap Road	Water main installation inside sleeve pipe
Roundabout	Trenchless Method (sleeve pipe)
	Open trench method
HK Velodrome	Water main installation inside sleeve pipe
	Trenchless Method (sleeve pipe)
Po Lam Road South / Ling	Open trench method
Hong Road	Water main installation inside sleeve pipe
Tsui Lam Road /	• Open transh method
Abandoned Road	• Open denon method

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 proforma 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 53rd monthly Environmental Monitoring and Audit (EM&A) Report presenting the EM&A works undertaken during the period from 1 December to 31 December 2022 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 1, 7, 13, 19 and 30 December 2022 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 525 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.

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Construction Programme

							Project: Mainlaying in Tseung	Kwan O																
ID	Task Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish			2019								20	24		
								Compien			Q4 Q	18 1 Q2 Q3 Q4	2019 Q1 Q2	Q3 Q4 Q1	0 Q2 Q3	2021 Q4 Q1 Q2	Q3 Q	1 2022 1 Q1 Q2	Q3 Q4	2023 Q1 Q2	Q3 Q4 Q	.4 1 Q2 Q3	Q4 Q1 0	Q2 Q3 Q4
1	Key Dates	2495 days	Tue 7/11/17	Thu 5/9/24	Calendar Day			0%	Tue 7/11/17	NA	-													
2	Contract Date	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													
3	Charling Data	0 days	Thu 16/11/17	Thu 16/11/17	Calondar Day		days,61,62,58	100%	Thu 16/11/17	Thu 16/11/17	16/	11												
	Starting Date	0 days		110 10/11/17	Calendar Day		days	, 100/0	110 10/11/17	1110 10/11/17														
4	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												
5	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	1									
6	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							
7	EOT for CE No. 23 Inclement Weather - In June 2018	0 days	Tue 18/5/21	Tue 18/5/21	HK Working Day	6	8	100%	Tue 18/5/21	Tue 18/5/21						•	18/5							
8	EOT for CE No. 01	246 days	Wed 19/5/21	Wed 19/1/22	Calendar Day	7	9FF	0%	NA	NA								19/1						
9	Revised Completion Date	0 days	Wed 19/1/22	Wed 19/1/22	Calendar Day	8FF	11FS+365 days	0%	NA	NA								19/1						
10	Planned Completion	0 days	Thu 5/9/24	Thu 5/9/24	Calendar Day	12FF		0%	NA	NA												*	5/9	
11	Defect Date	0 days	Thu 19/1/23	Thu 19/1/23	Calendar Day	9FS+365 days		0%	NA	NA										19/1				
12	Mainlaying In Tseung Kwan O	2495 days	Tue 7/11/17	Thu 5/9/24	Calendar Day	TO ROTATION	10FF	77%	Tue 7/11/17	NA	-													
13	Issued Compensation Events (General)	1316 days	Tue 12/6/18	Tue 18/1/22	Calendar Day			100%	Tue 12/6/18	Tue 18/1/22		-												
56	Proliminarias	1636 days	Tue 7/11/17	Sat 30/4/22	Calendar Day			100%	Tue 7/11/17	Sat 30/4/22	-													
57		222 4-10	Tue 7/11/17	Mar 24/0/18	Colorday Day			100%	Tuo 7/11/17	Mon 24/9/19	-													
	Submission and Permit Application	322 days	Tue //11/1/	WON 24/9/18	Calendar Day			10078	1027/11/17	WOII 24/ 5/ 18					-									
69	Subcontracting	1122 days	Thu 16/11/17	Fri 11/12/20	Calendar Day			100%	Thu 16/11/17	Fri 11/12/20														
88	Site Establishment	220 days	Tue 2/1/18	Thu 9/8/18	Calendar Day			100%	Tue 2/1/18	Thu 9/8/18	-													
91	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		V												
101	Mainlaying in Tseung Kwan O Area 137 (Portion H)	1260 days	Tue 11/12/18	Wed 15/3/23	HK Working Day	/		92%	Tue 11/12/18	NA														
102	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 <i>1</i> 7										
103	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											
104	(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														
105	Open Cut Excavation, Pipe Laying and Reinstatement at TKO Area 137	597 days	Sat 10/8/19	Sat 14/8/21	HK Working Day	/	761	100%	Sat 10/8/19	Sat 14/8/21				~										
121	Trenchless Works (DN1200 MS PIPE + NS250 HDPE PIPE) at TKO Area 137	1162 days	Tue 22/1/19	Thu 22/12/22	HK Working Day	,	784,762	83%	Tue 22/1/19	NA								-						
164	Einal Connection of NS250 HDPE Pine to Evisting at Wan Po Road	14 days	Tue 28/2/23	Wed 15/3/23	HK Working Day	788		0%	NA	NA														
165								7 40/	7 7/11/17	NA	-													-
105	Mainlaying From Boundary of Tseung Kwan O Area 137 to TKO Fresh Water Service Reservoir (Portion I)	1866 gays	Tue //11/1/	Won 26/2/24	HK WORKING Day			7470	Tue //11/1/	IVA	Ľ.													
166	Open Cut Excavation, Pipe Laying and Reinstatement at Wan Po Road	1506 days	Thu 30/8/18	Thu 28/9/23	HK Working Day	/		81%	Thu 30/8/18	NA														
249	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												,		
368	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 Day	/		91%	Thu 23/8/18	NA		-												
413	Water Mains Near Pung Loi Road (CH.FD0+00 - CH.A3+51)	1020 days	Wed 17/6/20	Thu 23/11/23	HK Working Day	/		60%	Wed 17/6/20	NA					V anana									
436	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					P									
479	Trenchless Work from Po Yap Road Roundabout to KMB Depot (Pit K to Pit L) (Pit O to	o 822 days	Fri 28/2/20	Mon 5/12/22	HK Working Day	/	765	55%	Fri 28/2/20	NA										,				
517	Pit P) Trenchless Work from Po Yap Road Roundabout (Hong Kong Velodrome)	1251 days	Tue 2/4/19	Mon 26/6/23	HK Working Day	Y	765	80%	Tue 2/4/19	NA			-		-									
583	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	Y		80%	Tue 7/11/17	NA	-								-					-
759	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						-								
760	Sterilization and Water Sampling	1112 days	Wed 24/3/21	Mon 8/4/24	Calendar Day			18%	Wed 24/3/21	NA						-								
771	Pipeline Cleaning and CCTV Inspection	1153 days	Wed 12/5/21	Sun 7/7/24	Calendar Day			10%	Wed 12/5/21	NA														
781	Starilization and Water Sampling	30 days	Mon 8/7/24	Tue 6/8/24	Calendar Day			0%	NA	NA														
783	Sternization and water sampling	CO days	F=1 22/12/22	Map 20/2/22	Colondar Day			0%	NA	NA														-
700	Water Sampling	Eco d	Tus 21/2/22	Thu 5 (0/24	Calendar Day			0%	NA	NA														
/80	Handover Portion I and Portion H to WSD Region	565 days	Tue 21/2/23	111u 5/9/24	Calendar Day			076	The Place	N/A														
789	Water Supply to Tseung Kwan O Desalination Plant at Fill Bank of Tseung Kwan O Area 137 (Portion J)	445 days	Tue 7/11/17	Sat 11/5/19	HK Working Da	Y		99%	Tue 7/11/17	NA														-
																18.5								
	Line December 21 Task Summary	Inactiv	e Milestone	Dur	ation-only	Start-only	E Ext	ternal Milesto	ne 💠	Critical Sp	plit													
Wor Data	king Programme No. 15 Date : 24 May 2022 Split Project Summary Milestone Inscribe Task] Inactiv Manua	e Summary	1 Mar Mar	uual Summary Rollup	Finish-only External Tasks	De:	adline itical	+	Progress Manual Pr	rogress													
-							Page 1																	
1																								

2025 Q2 Q3 Q4 Q1 Q2 Q3 Q4
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	Task		Summary	¢\$	Inactive Milestone		Duration-only		Start-only	E	External Milestone	0	Critical Split	
Working Programme No. 15	Split		Project Summary	[]	Inactive Summary	1	Manual Summary Rollup		Finish-only	З	Deadline	+	Progress	
Data Date : 24 May 2022	Milestone	*	Inactive Task		Manual Task		Manual Summary	·1	External Tasks	philodel for the last	Critical		Manual Progress	

						Project: Mainlaying in Tseung	Kwan O													
D	Task Name	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	0010	2019	2020	2021		2022	2023		2024	2025	14
										Q4 Q1	Q2 Q3 Q4 Q1 Q2 Q3 Q4	Q1 Q2 Q	23 Q4 Q1	Q2 Q3 Q	24 Q1 Q2	Q3 Q4 Q1	Q2 Q3 Q4	Q1 Q2 Q3	Q4 Q1 Q2	Q3 Q4
1	Key Dates	2495 days	Tue 7/11/17	Thu 5/9/24	Calendar Day		0%	Tue 7/11/17	NA											
2	Contract Date	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										
3	Starting Data	0 days	Thu 16/11/17	Thu 16/11/17	Calendar Dav	days,61,62,58 4.5FS+730 davs.6FS+1279	100%	Thu 16/11/17	Thu 16/11/17	16/11										
,	Starting Date	0 uays	1110 10/11/17	1110 10/ 11/ 1/	culcilian bay	days														
4	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										
5	Access Date of Portion H	0 days	Sat 16/11/19	Sat 16/11/19	Calendar Day 3FS+730 da	ys 110	100%	Sat 16/11/19	Sat 16/11/19		*	16/11								
6	Completion Data (Contract)	0 days	Tue 18/5/21	Tue 18/5/21	Calendar Day 3FS+1279 d	avs 7	100%	Tue 18/5/21	Tue 18/5/21					18/5						
U	completion date (contract)	o du jo							T 40/5/24					▲ 19/5						
7	EOT for CE No. 23 Inclement Weather - In June 2018	0 days	Tue 18/5/21	Tue 18/5/21	HK Working Day 6	8	100%	Tue 18/5/21	Tue 18/5/21					♥ 10/J						
8	EOT for CE No. 01	246 days	Wed 19/5/21	Wed 19/1/22	Calendar Day 7	9FF	0%	NA	NA						19/1					
9	Revised Completion Date	0 days	Wed 19/1/22	Wed 19/1/22	Calendar Day 8FF	11FS+365 days	0%	NA	NA						19/1					
			71 5/0/24	Thu 5 (0 /24	Colordan David 1255		09/	NA	NA	-									5/9	
10	Planned Completion	0 days	1 nu 5/9/24	Thu 5/9/24	Calendar Day 12rr		078	NA .	NA .											
11	Defect Date	0 days	Thu 19/1/23	Thu 19/1/23	Calendar Day 9FS+365 da	iys	0%	NA	NA							19/	/1			1 - 1
12	Mainlaying In Tseung Kwan O	2495 days	Tue 7/11/17	Thu 5/9/24	Calendar Day	10FF	77%	Tue 7/11/17	NA	A			Contraction of Australia							
13		1316 days	Tue 12/6/18	Tue 18/1/22	Calendar Day		100%	Tue 12/6/18	Tue 18/1/22											
1.5	issued compensation events (deneral)	1010 0043	140 12/0/10	and top after							A 10/6									
14	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									
15	Issue CE No. 01 - Change in Pressure Rating of Watermain, Valves and Fittings from PN1	6 0 days	Thu 12/7/18	Thu 12/7/18	Calendar Day	68	100%	Thu 12/7/18	Thu 12/7/18		12/7									
16	to PN25 Issue CE No. 08 - Change in Number of Fixed IP Address for Broadband Connection for	0 davs	Tue 4/12/18	Tue 4/12/18	Calendar Day		100%	Tue 4/12/18	Tue 4/12/18		♦ 4/12									
	Site Accommodation			Thu 20 /2 /22	Coloridae Davi		100%	Thu 28/2/10	Thu 20/2/10		A 280									
17	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		▼ 20/2									
18	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		♦ 15/5									
19	Issue CF 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			-						
		- O dava	Tue 21/12/10	Tuo 21/12/10	Calondar Day		100%	Tue 31/12/19	Tue 31/12/19			31/12								
20	Issue CE No. 35 - Feasibility Study on the Alternative Alignment by Trenchless Method In the Wan Po Road J/O Lohas Park Road	n Udays	Tue 31/12/19	Tue 51/12/19	Calendar Day		10078	100 31/12/13	100 51/12/15											
21	Issue CE No. 56 - Excavation of Inspection Pits for the Alternative Alignment (Batch No.	0 days	Fri 22/5/20	Fri 22/5/20	Calendar Day		100%	Fri 22/5/20	Fri 22/5/20			* 22	15							
22	2) Issue CE No. 64 - Tree Survey at Tsui Lam (Location A and Location B)	0 days	Tue 9/6/20	Tue 9/6/20	Calendar Day		100%	Tue 9/6/20	Tue 9/6/20			 9. 	/6							×
22	or N. T. D. in the sector for it is a sector way along Way Do Road using	0 days	Thu 13/8/20	Thu 13/8/20	Calendar Day		100%	Thu 13/8/20	Thu 13/8/20				13/8							
25	Issue CE No. 74 - Reinstatement of existing carriageway along wan Po Road using PMSMA10	0 uays	110 15/6/20	110 15/0/20	Calendar Day		100/0	1110 15/0/20	1114 10/0/20				1 01/0							
24	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							
25	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							
26	Bituminous Pavement along TKO South Waterfront Promenade	0 days	Wed 9/9/20	Wed 9/9/20	Calendar Day		100%	Wed 9/9/20	Wed 9/9/20				\$ 9/9							
20	between Chainage FC12+20 and Chainage FC13+26	o uu jo							T 22/2/22				A 22/0							
27	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				♥ 2219							
28	Issue CE No. 78 - Excavation of Inspection Pits for Additional Connection Point to The	0 days	Wed 23/9/20	Wed 23/9/20	Calendar Day		100%	Wed 23/9/20	Wed 23/9/20				23/9							
29	Existing Water Supply system 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							
		0.1	W	W	Colondar Day		100%	Wed 28/10/20	Wod 28/10/2	0			♦ 28/10							
30	Issue CE No. 85 - Affected Trees across the Natural Stream Course at Isui Lam (Location A)	n Udays	wed 28/10/20	wed 28/10/20	Calendar Day		100%	Wed 20/10/20	7 WEU 20/10/2	.0				1						
31	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	0 Mon 23/11/2	.0			23/11							
32	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	2						
22	Road	ar Odavs	Fri 18/12/20	Fri 18/12/20	Calendar Dav		100%	Fri 18/12/20	Fri 18/12/20				18/12	2						
33	Po Hong Road and Ling Hong Road												▲ 20	1						_
34	Issue CE No. 99 - Excavation of Inspection pit near Mau Wu Tsai Village at Po Lam Road South	0 days	Wed 20/1/21	Wed 20/1/21	Calendar Day		100%	Wed 20/1/21	Wed 20/1/21	•			₹ 20/	1						
35	Issue CE No. 101 - Uncharted Irrigation Pipe in TKO South Promenade Waterfront's Cyc	le 0 days	Fri 29/1/21	Fri 29/1/21	Calendar Day		100%	Fri 29/1/21	Fri 29/1/21				29	/1						
36	Track at CH.FC6+64 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				♦ 1	0/2						-
			Tur 22/2/24	Tue 22/2/24	Calandar Davi		100%	Tuo 22/2/21	Tue 22/2/24					3/2						
37	Issue CE No. 105 - Suspension of Works in Wan Po Road 1st Works Site due to Shortage of Backfilling Material Caused by COVID-19	e u days	Tue 23/2/21	Tue 23/2/21	calendar Day		100%	1ue 25/2/21	108 25/2/21											
38	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				• :	26/2						
39	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						
10	Disruption to Supply of Construction Material Caused b COVID-19	0 days	Fri 26/2/21	Fri 26/2/21	Calendar Day		100%	Fri 26/2/21	Fri 26/2/21				•	26/2						1
40	Issue CE No. 108 - Works in Isul Lam Section (Batch No.3) were Suspended due to Disruption to Supply of Construction Material Caused b COVID-19	u days	FII 20/2/21	111 20/2/21	calendar Day		10070							00						
41	Issue CE No. 107 - Affected Trees near Mau Wu Tsai Village between CH.HA0+00 and C	Ch. O days	Mon 8/3/21	Mon 8/3/21	Calendar Day		100%	Mon 8/3/21	Mon 8/3/21				*	8/3						
42	Issue CE No. 110 - Inaccessible to Works Area Ch.HA2+10 due to Deteriorated Concrete	e 0 days	Thu 8/4/21	Thu 8/4/21	Calendar Day		100%	Thu 8/4/21	Thu 8/4/21				-	8/4						
	Access																			
IM-	cking Programme No. 15 Task Summary	Inacti	ve Milestone	Du	ation-only	E Start-only E E	Atemal Milest	me 👳	Critical	Split										
Dat	a Date : 24 May 2022 Split Project Summary] Inacti Manu	ve Summary	Ma Ma	nual Summary Rollup nual Summary	Finish-only De	eadline ritical	+	Progress Manual	s Progress										
						Page 1														

							Project: Mainlaying in Tseung	g Kwan O											
ID Tas	k Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	0010	2019	2020	2021 20	22	2023	2024	2025	
43	Issue CF No. 112 - Works Delaved 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	3 Q4 Q1 Q2 Q3	8 Q4 Q1 Q2 Q3 Q4 Q ◆ 14/4	21 Q2 Q3	Q4 Q1 Q2	Q3 Q4 Q1 Q2	Q3 Q4 Q1	Q2 Q3 Q4
44	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					-
45	Po Road Issue CE No. 116 - Special Mosquito and Biting Midges Prevention Measures from	0 days	Mon 24/5/21	Mon 24/5/21	Calendar Day			100%	Mon 24/5/21	Mon 24/5/21				24/5			-		
46	CH.FB0+00 to Ch.FB5+34 and Ch.FC0+0 0to FC13+26 along TKO South Waterfront Issue CF No. 119 - Professional Indemnity Insurance for the Conforming Designs unde C	E O days	Mon 31/5/21	Mon 31/5/21	Calendar Day			100%	Mon 31/5/21	Mon 31/5/21				• 31/5					
47	No.55, 62 and 77 Issue CF No. 120 - Left-in Sheet Pile for Manual Excavation in Po Lam Road at CH.HA6+5	55 0 days	Mon 31/5/21	Mon 31/5/21	Calendar Day			100%	Mon 31/5/21	Mon 31/5/21				* 31/5					
48	Issue CF No. 127 - Manual Excavation under Unexpectedly long and contonuous extent	0 days	Tue 12/10/21	Tue 12/10/21	Calendar Day			100%	Tue 12/10/21	. Tue 12/10/21				12/10					
49	of UU obstruction in Wan Po Road at CH. A0+88	an O days	Tue 26/10/21	Tue 26/10/21	Calendar Day			100%	Tue 26/10/21	Tue 26/10/21				♦ 26/1	0				
50	po Road in Sep 2021	0 days	Tue 14/12/21	Tue 14/12/21	Calendar Day			100%	Tue 14/12/21	Tue 14/12/21				• 14	4/12				
51	Issue CE No. 131 - Additional Traffic Court and Analysis for TTA Application	0 days	Fri 24/12/21	Fri 24/12/21	Calendar Day			100%	Fri 24/12/21	Fri 24/12/21				* 2	4/12			·	
52	Issue CE No. 138 - Additional Inspection Pite for Realignment of DN800 Water Main in	0 days	Fri 24/12/21	Fri 24/12/21	Calendar Day			100%	Fri 24/12/21	Fri 24/12/21				• 2	24/12				
53	TKOFWPSR	0 days	Wed 29/12/21	Wed 29/12/21	Calendar Day			100%	Wed 29/12/2	1 Wed 29/12/2	1			• :	29/12				
54	Kwan O Area 137 (Dec 2021 - Sept 2022)	0 days	Fri 31/12/21	Fri 31/12/21	, Calendar Day			100%	Fri 31/12/21	Fri 31/12/21				•	31/12				
55	ISSUE CE NO. 130 - Adultional Resultating works at wait to hoad thear the Area 137	o days	Tue 18/1/22	Tue 18/1/22	Calendar Day		125FF	100%	Tue 18/1/22	Tue 18/1/22				*	18/1				
55	Issue JC NO. 57 - Realignment of water Main by Trenchess Method III SCNTA Portion II TKO Area 137	1636 days	Tue 7/11/17	Sat 30/4/22	Calendar Day			100%	Tue 7/11/17	Sat 30/4/22	·								
57	Preliminaries	372 days	Tup 7/11/17	Mop 24/9/12	Calendar Day			100%	Tue 7/11/17	Mon 24/9/18	3								
51	submission and Permit Application	25 days	Tup 7/11/17	Mor 11/12/17	Calendar Day	2		100%	Tue 7/11/17	Mon 11/12/1	7								
36	Submission of Safety Plan	ar dava	Tue 7/11/17	Thu 21/12/17	Calondar Day	2		100%	Tuo 7/11/17	Thu 21/12/12									
59	Submission of Site Management Plan and Trip Ticket	45 days	Tue //11/1/	File 17/12/17	Calendar Day	2 2FS+27 days		100%	Mon 4/12/17	Sup 17/12/17									
60	Submission of Key People	14 days	Wion 4/12/17	Sun 17/12/17	Calendar Day	2FS+27 days		100%	Tue 7/11/17	Wod 6/12/17									
61	Submission of Subcontractor Management Plan	30 days	Tue 7/11/17	Wed 6/12/1/	Calendar Day	2		100%	Tue //11/1/	wed 6/12/1/	7								
62	Submission of First Programme	7 days	Tue 7/11/17	Mon 13/11/17	Calendar Day	2		100%	Tue //11/1/	WION 13/11/1								•	
63	Submission of Pipe Material (PN16)	54 days	Thu 1/2/18	Tue 27/3/18	Calendar Day	4	64	100%	Thu 1/2/18	Tue 27/3/18									
64	Approval of Pipe material submission (PN16)	137 days	Wed 28/3/18	Sat 11/8/18	Calendar Day	63	92SS+7 days	100%	Wed 28/3/18	Sat 11/8/18									
65	Appointment of Environmental Team	10 days	Wed 9/5/18	Fri 18/5/18	Calendar Day	81	66	100%	Wed 9/5/18	Fri 18/5/18									
66	Environmental Baseline Monitoring	17 days	Tue 29/5/18	Thu 14/6/18	Calendar Day	65		100%	Tue 29/5/18	Thu 14/6/18									
67	Submission of Environmental Management Plan	45 days	Tue 7/11/17	Thu 21/12/17	Calendar Day	2		100%	Tue 7/11/17	Thu 21/12/17	7								
68	Submission & Approval of CE01 Pipe Material PN25	75 days	Thu 12/7/18	Mon 24/9/18	Calendar Day	14,15	96	100%	Thu 12/7/18	Mon 24/9/18	3								
69	Subcontracting	1122 days	Thu 16/11/17	Fri 11/12/20	Calendar Day			100%	Thu 16/11/1	7 Fri 11/12/20									
70	Submission and Approval	122 days	Thu 16/11/17	Sat 17/3/18	Calendar Day			100%	Thu 16/11/1	7 Sat 17/3/18									
71	Submission of sub-contractor selection procedure	24 days	Thu 16/11/17	Sat 9/12/17	Calendar Day	4	72	100%	Thu 16/11/1	7 Sat 9/12/17									
72	Approval of sub-contractor selection procedure	42 days	Sun 10/12/17	Sat 20/1/18	Calendar Day	71	87,82,83FS+10 days,86	100%	Sun 10/12/1	7 Sat 20/1/18									
73	Submission of Sub-contractor Condition	14 days	Sun 21/1/18	Sat 3/2/18	Calendar Day	4	74	100%	Sun 21/1/18	Sat 3/2/18	I								-
74	Approval of Sub-contractor Condition	42 days	Sun 4/2/18	Sat 17/3/18	Calendar Day	73	87,82,83FS+10 days,86	100%	Sun 4/2/18	Sat 17/3/18									
75	Submission of Supplier Selection Procedure	75 days	Thu 16/11/17	Mon 29/1/18	Calendar Day	4	76	100%	Thu 16/11/1	7 Mon 29/1/18	3								
76	Approval of Supplier Selection Procedure	42 days	Tue 30/1/18	Mon 12/3/18	Calendar Day	75	92	100%	Tue 30/1/18	Mon 12/3/18	3								
77	Subcontractor Selection and Subcontracting	1115 days	Thu 23/11/17	Fri 11/12/20	Calendar Day			100%	Thu 23/11/1	7 Fri 11/12/20									
78	Traffic Consultant for Investigation Works	30 days	Thu 23/11/17	Fri 22/12/17	Calendar Day	4		100%	Thu 23/11/1	7 Fri 22/12/17									
79	Consultancy: Landscape for Investigation works	30 days	Fri 5/1/18	Sat 3/2/18	Calendar Day	4	250	100%	Fri 5/1/18	Sat 3/2/18									
80	Consultancy: Traffic consultant	55 days	Wed 21/2/18	Mon 16/4/18	Calendar Day			100%	Wed 21/2/1	8 Mon 16/4/18	B								
81	Environmental Team	9 days	Mon 16/4/18	Tue 24/4/18	Calendar Day		65	100%	Mon 16/4/18	8 Tue 24/4/18									
82	Temporary site office, hoarding & project sign board	75 days	Thu 22/3/18	Mon 4/6/18	Calendar Day	74,72	89FS+13 days	100%	Thu 22/3/18	Mon 4/6/18									
83	Consultancy: Independent Checking Engineer	12 days	Mon 14/5/18	Fri 25/5/18	Calendar Day	72FS+10 days,74FS+10 days		100%	Mon 14/5/1	8 Fri 25/5/18	•								
84	Survey Services	23 days	Wed 26/9/18	Thu 18/10/18	Calendar Day			100%	Wed 26/9/1	8 Thu 18/10/1	8	•							
			va Milastora	D	ration-only	Chart only	F	atemal Milacto	nne 🎂	Critical	Split								
Workin Data D	ng Programme No. 15 Task Summary Task Task Task Task Task Task Task Task	Inacti	ive Summary	Ma	nual Summary Rollup	Finish-only] D	Deadline Tritical	+	Progres	s Progress								
	Milestone • Inactive Task	Manu	iai 145K	Ma	non oundlikty	External Tasks	Page 2			Manua									

							Project: Mainlaying in Tseur	ng Kwan O			
ID Task I	Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2019 2024 2018 2019 2020 2021 2022 2023 2024 2025
85	Sacrificial Anode Cathodic Protection (SACP)	82 days	Thu 30/5/19	Mon 19/8/19	Calendar Day	19	99	100%	Thu 30/5/19	Mon 19/8/19	Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 <th< td=""></th<>
86	Landscaping Works	42 days	Thu 6/9/18	Wed 17/10/18	Calendar Day	72,74		100%	Thu 6/9/18	Wed 17/10/1	8
87	Miscellaneous	1000 days	Sun 18/3/18	Fri 11/12/20	Calendar Day	74,72		100%	Sun 18/3/18	Fri 11/12/20	
88	Cite Establishment	220 days	Tue 2/1/18	Thu 9/8/18	Calendar Day			100%	Tue 2/1/18	Thu 9/8/18	
80	Site establishment	20 days	Sat 12/5/18	Thu 9/8/18	Calendar Day	82FS+13 days		100%	Sat 12/5/18	Thu 9/8/18	
09	Setting up PM's and Contractor Accommodation	Souays	Jac 12/3/18	F=: 2/2/19	Caleadar Day	4		100%	Tuo 2/1/18	Eri 2/2/18	
90	Initial Survey of the Site	60 days	Tue 2/1/18	Ffi 2/3/18	Calendar Day	4		100%	Tue 2/1/10	Fit 20 (4/22	
91	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	
92	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	
93	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	
94	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
95	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	
96	Preparation of CE01 Purchase Order	7 days	Tue 25/9/18	Mon 1/10/18	Calendar Day	68	97	100%	Tue 25/9/18	Mon 1/10/18	
97	1st Batch of CE01 Material Delivery	90 days	Tue 2/10/18	Sun 30/12/18	Calendar Day	96	98	100%	Tue 2/10/18	Sun 30/12/18	
98	1st Batch of CE01 Material Delivery on site	1 day	Tue 22/1/19	Tue 22/1/19	Calendar Day	97		100%	Tue 22/1/19	Tue 22/1/19	1
99	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	
100	SCAP Purchase Order & Material Delivery	115 days	Mon 22/6/20	Wed 14/10/20	Calendar Day	99		100%	Mon 22/6/20	Wed 14/10/2	
101	Mainlaving 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	
102	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
103	Early rossession of rotion in	0 days	Tue 22/1/19	Tue 22/1/19	Calendar Day		104	100%	Tue 22/1/19	Tue 22/1/19	♦ 22/1
105	(NS250 HDPE Pipe)	220 days	Tuo 11/12/18	Tue 5/11/19	Calendar Day	103		100%	Tue 11/12/18	Tue 5/11/19	
104	Material Procurement and Delivery in Batches	550 days	Set 10/8/10	Cot 14/9/31	HK Working D	105	761	100%	Sat 10/8/19	Sat 14/8/21	
105	Open Cut Excavation, Pipe Laying and Reinstatement at TKO Area 137	597 days	Sat 10/8/19	Sat 14/8/21		ay	701	100%	Sat 10/8/10	Mod 20/0/21	
106	DN1200 MS PIPE + NS250 HDPE PIPE - Open Cut	341 days	Sat 10/8/19	Wed 30/9/20	HK WORKING D	ау		100%	54(10/8/19	wed 30/3/20	
107	CH.CT1+51 - CH.265 DN1200 MS Pipe OC	82 days	Thu 16/4/20	Fri 24/7/20	None			100%	Thu 16/4/20	Fri 24/7/20	
108	CH.CT0+51 - CH.1+51 DN1200 MS Pipe OC	44 days	Mon 10/2/20	Tue 31/3/20	HK Working Da	ау		100%	Mon 10/2/20	Tue 31/3/20	
109	CH.CT0+00 - CH.0+51 DN1200 MS Pipe OC	74 days	Thu 2/1/20	Tue 31/3/20	HK Working Da	ау		100%	Thu 2/1/20	Tue 31/3/20	
110	CH.CA0+00 - CH.4+00 DN1200 MS Pipe OC	192 days	Sat 10/8/19	Tue 31/3/20	HK Working Da	ау 5		100%	Sat 10/8/19	Tue 31/3/20	
111	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	
112	CH.KT2+23 - CH.2+80 NS250 HDPE Pipe OC	29 days	Sat 20/6/20	Sat 25/7/20	HK Working D	ау		100%	Sat 20/6/20	Sat 25/7/20	
113	CH.KT1+51 - CH.2+23 NS250 HDPE Pipe OC	31 days	Sat 16/5/20	Sat 20/6/20	HK Working D	ау		100%	Sat 16/5/20	Sat 20/6/20	
114	CH.KT0+51 - CH.1+51 NS250 HDPE Pipe OC	19 days	Tue 10/3/20	Tue 31/3/20	HK Working D	ау		100%	Tue 10/3/20	Tue 31/3/20	
115	CH.KT0+00 - CH.0+51 NS250 HDPE Pipe OC	50 days	Sun 2/2/20	Tue 31/3/20	HK Working D	ау		100%	Sun 2/2/20	Tue 31/3/20	
116	CH.KA0+00 - CH.4+00 NS250 HDPE Pipe OC	143 days	Thu 10/10/19	Tue 31/3/20	HK Working D	ау		100%	Thu 10/10/19	Tue 31/3/20	
117	Construction of Chambers	385 days	Wed 29/4/20	Sat 14/8/21	HK Working D	ay		100%	Wed 29/4/20	Sat 14/8/21	
118	Combined DAV & IT Chamber for DN1200 MS pipe at CH.CT2+47	60 days	Tue 5/5/20	Wed 15/7/20	HK Working D	ау		100%	Tue 5/5/20	Wed 15/7/20	
119	Combined Washout Pump Pit for DN1200 MS nine and NS250 HDPF nine at	71 davs	Wed 3/6/20	Wed 26/8/20	HK Working D	ay		100%	Wed 3/6/20	Wed 26/8/20	
120	CH.CT2+43	385 days	Wed 29/4/20	Sat 14/8/21	HK Working D	av		100%	Wed 29/4/20	Sat 14/8/21	
120	DN900 Valve Chamber with by-pass pipes at Ch.CA4724	1167 days	Tuo 22/1/10	Thu 22/12/22	HK Working F		784 767	83%	Tue 22/1/19	NA	
121	Irenchiess Works (UN1200 WIS PIPE + N5250 HDPE PIPE) at IKO Area 137	C days	Tu- 22/1/19	Tue 22/12/22	Calender Dru		10-11-02	100%	Tue 22/1/10	Tue 22/1/10	
122	Issue CE No. 07 - Water Supply to Tseung Kwan O Desalination Plant at Portion 'H'	U days	Tue 22/1/19	Tue 22/1/19	Calendar Day			100%	Wed 1/1/19	Mad 1/1/19	
123	Issue CE No. 17 - Realignment of Water Main by Trenchless Method in TKO Area 13	37 O days	Wed 1/1/20	Wed 1/1/20	Calendar Day			100%	wed 1/1/20	wea 1/1/20	
124	Issue CE No. 118 - Non-destructive Void detection survey in Tseung Kwan O Area 1: between 137 Pit A and 137 Pit B	.37 0 days	Tue 18/5/21	Tue 18/5/21	Calendar Day			100%	Tue 18/5/21	Tue 18/5/21	
125	Issue CE No. 57 - Realignment of Water Main by Trenchless Method in SENTX Porti in TKO Area 137	ion 0 days	Tue 18/1/22	Tue 18/1/22	Calendar Day	55FF	129	100%	Tue 18/1/22	Tue 18/1/22	• 18/1
126	Tendering & Approval	21 days	Mon 6/1/20	Sun 26/1/20	Calendar Day			100%	Mon 6/1/20	Sun 26/1/20	
	Tod Common Entertain	Inici	ive Milestone	Di	uration-only	Start-only	C	External Milestor	ne 🔿	Critical	l Split
Working Data Dat	Programme No. 15 1338. Summary Version Summary] Inact	tive Summary	M	anual Summary Rollup	Finish-only External Taul	3	Deadline Critical	÷	Progres	ss Process
	Milestone Inactive Task	Man		М	anan ooninna y	. External Tass	Page 3			Planda	

							Project: Mainlaying in Tseung	Kwan O											
D Ta	k Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish		2018		20	019		2020		2
127	WSD instructed to retender	0 days	Fri 3/4/20	Fri 3/4/20	Calendar Day		128	100%	Fri 3/4/20	Fri 3/4/20	Q4	Q1 Q2	2 Q3	Q4 (<u>21 Q2</u>	Q3 (24 Q1	Q2 Q3 ♦ 3/4	Q4
128	Retendering, Review & Approval	43 days	Mon 18/5/20	Mon 29/6/20	Calendar Day	127	129	100%	Mon 18/5/20	Mon 29/6/20									
129	Issue LOA	1 day	Thu 3/9/20	Thu 3/9/20	Calendar Day	128,125	135	100%	Thu 3/9/20	Thu 3/9/20								1	
130	Trial Pit Excavation for Trenchless Works at TKO Area 137	156 days	Mon 2/9/19	Wed 11/3/20	HK Working Da	y		100%	Mon 2/9/19	Wed 11/3/20						-		,	
131	Di+ 1370	35 days	Mon 2/9/19	Tue 15/10/19	HK Working Day	y		100%	Mon 2/9/19	Tue 15/10/19									
132	01: 1270	57 days	Mon 28/10/19	Sat 4/1/20	HK Working Day	v		100%	Mon 28/10/19	Sat 4/1/20	-					1			
133	PIC 1370	14 days	Tue 25/2/20	Wed 11/3/20	HK Working Day	v		100%	Tue 25/2/20	Wed 11/3/20							-		
133		106 days	Mon 9/11/20	Thu 18/3/21	HK Working Da	, N		100%	Mon 9/11/20	Thu 18/3/21		_							-
104	Construction of Jacking / Receiving Pits	2 days	Mon 9/11/20	Wed 11/11/20	Calondar Day	120	136 137 138	100%	Mon 9/11/20	Wed 11/11/20			_				_		
135	Mobilization and Setup & Preliminary Works	5 udys	Mon 16/11/20	Mon 25/1/21	UK Working Day	v 135	141EE-30 days	100%	Mon 16/11/20	Mon 25/1/21									
136	Receiving Pit 137A (Renopipe)	58 days	Mon 16/11/20	Wion 25/1/21		y 135	141FF-50 days	100%	Thu 12/11/20	F-: 22/1/21					_		_		
137	Jacking Pit 137B (Renopipe)	59 days	Thu 12/11/20	Fri 22/1/21	HK Working Da	y 135	140	100%	Thu 12/11/20	FII 22/1/21					_		-		
138	Receiving Pit 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									
139	TBM Pipe Jacking From Pit 137B to Pit 137A	410 days	Fri 22/1/21	Wed 15/6/22	HK Working Da	iγ	170	79%	Fri 22/1/21	NA									
140	Establishment at Pit 137B	29 days	Fri 22/1/21	Sat 27/2/21	HK Working Da	y 137	141	100%	Fri 22/1/21	Sat 27/2/21									
141	O WPR920 Steel Sleeve Pipe for both DN1200 & NS250 (Pit 137B - Pit 137A) (CH CC0+10 to CH CC 1+24) in Soil mixed with rubbish (114m: 3m/day)	42 days	Mon 1/3/21	Thu 22/4/21	HK Working Da	y 140,136FF-30 days	142	100%	Mon 1/3/21	Thu 22/4/21									
142	Grouting and Remove setup at Pit 137A & Pit 137B	31 days	Fri 23/4/21	Mon 31/5/21	HK Working Da	y 141	143	100%	Fri 23/4/21	Mon 31/5/21									
143	Setup for Pipe Laying inside jacking Pits 137B to Pit 137A	62 days	Wed 12/1/22	Mon 28/3/22	HK Working Da	y 154,142	145	100%	Wed 12/1/22	Mon 28/3/22									
144	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	y 145	146	100%	Tue 29/3/22	Thu 14/4/22									
145	NS250 HDPE Pipe Laying inside jacking pipe (114m) (8m per day)	0 days	Fri 28/1/22	Fri 28/1/22	HK Working Da	y 143	144	100%	Fri 28/1/22	Fri 28/1/22									
146	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	Tue 19/4/22	Thu 21/4/22	HK Working Da	y 144	147	0%	NA	NA									
147	Grouting Works (20 meter/day)	6 days	Fri 22/4/22	Thu 28/4/22	HK Working Da	ny 146	148	0%	NA	NA									
148	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	ay 147	149	0%	NA	NA			-						
149	Remove ELS 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			-						
150	Pipe Laying (DN1200 MS Pipe & NS250 HDPE Pipe) From Pit 137A to CH.CC1+38 &	12 days	Wed 1/6/22	Wed 15/6/22	HK Working Da	ay 149		0%	NA	NA									
151	KC1+38 TBM Pipe Jacking From Pit 137B to Pit 137C	578 days	Tue 12/1/21	Thu 22/12/22	HK Working Da	ау		74%	Tue 12/1/21	NA									
152	Revised Establishment at Pit 137B	39 days	Fri 19/3/21	Sat 8/5/21	HK Working Da	ay 138	153	100%	Fri 19/3/21	Sat 8/5/21									
153	O WPR920 Steel Sleeve Pipe for both DN1200 & NS250 (Pit 137C - Pit 137B)	144 days	Sun 9/5/21	Sat 30/10/21	HK Working Da	ay 152	154	100%	Sun 9/5/21	Sat 30/10/21									
154	(CH.CB0+00 to CH.CB.2+46) in Soil mixed rubbish (246m; 1.5m/day) include 49 day Grauting Remove seture at Pit 137C and Pit 137B	/s 41 days	Mon 1/11/21	Fri 17/12/21	HK Working Da	ay 153	155,143	100%	Mon 1/11/21	Fri 17/12/21			_						
155	Grouing, remove setup at http://dimensionality.com	95 days	Tue 12/1/21	Tue 19/4/22	HK Working Da	y 154	157	100%	Tue 12/1/21	Tue 19/4/22					-				
155	Setup for Pipe Laying Inside Jacking Pit 1578 to Pit 1578		Wed 20/4/22	Wed 10/8/22	HK Working Da	ay 157	158	75%	Wed 20/4/22	NA									
150	DN1200 MS Pipe Laying inside jacking pipe (246m) (3 days per 8m)	95 uays	weu 20/4/22	Thu 27/1/22	UK Working Do	ay 157	156	100%	Sat 22/1/22	Thu 27/1/22							_		
157	NS250 HDPE Pipe Laying inside jacking pipe (246m) (8m per day)	4 days	Sat 22/1/22	Thu 27/1/22		ay 155	150	100%	581 22/1/22	1110 277 1722									
158	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									
159	Grouting Works (20 meter/day)	13 days	Mon 15/8/22	Mon 29/8/22	HK Working Da	ay 158	160	0%	NA	NA									
160	Construction of Combined Inspection and Washout Chamber (Type III) at Pit 137C	60 days	Tue 30/8/22	Thu 10/11/22	HK Working Da	ay 159	162,161	0%	NA	NA									
161	Pipe Connection Inside Pit 137C	6 days	Fri 11/11/22	Thu 17/11/22	HK Working Da	ay 160		0%	NA	NA									
162	Pipe Laying (HB, BVB, Short Pipe), Thrust Block & backfilling inside Pit 137C	24 days	Fri 11/11/22	Thu 8/12/22	HK Working Da	ay 160	163	0%	NA	NA									
163	Remove ELS and Remove ELS and Extract Sheetpile at Pit 137C	12 days	Fri 9/12/22	Thu 22/12/22	HK Working Da	ay 162		0%	NA	NA									
164	Final Connection of NS250 HDPE Pipe to Existing at Wan Po Road	14 days	Tue 28/2/23	Wed 15/3/23	HK Working Da	ay 788		0%	NA	NA									
165	Mainlaying From Boundary of Tseung Kwan O Area 137 to TKO Fresh Water Service	1866 days	Tue 7/11/17	Mon 26/2/24	HK Working D	ay		74%	Tue 7/11/17	NA	-								
166	Open Cut Excavation, Pipe Laying and Reinstatement at Wan Po Road	1506 days	Thu 30/8/18	Thu 28/9/23	HK Working D	ay		81%	Thu 30/8/18	NA			٩						
167	Open Cut CH.A0+00 to CH.A3+62 (Pit 1)	1321 days	Mon 10/9/18	Sat 25/2/23	HK Working D	lay	762	88%	Mon 10/9/18	NA				-					
168	Issue CE No. 76 - Unchartered Drain Pipe in Wan Po Road between CH.A1+12 and CH.A1+14	0 days	Fri 30/10/20	Fri 30/10/20	Calendar Day			100%	Fri 30/10/20	Fri 30/10/20									30
Worki Data D	ng Programme No. 15 Split Project Summary Nilestone Inactive Task	Inactiv Inactiv Manu:	ve Milestone ve Summary al Task	Du Ma Ma	ration-only nual Summary Rollup nual Summary	Start-only Finish-only External Task	C Ex J Da ss C	atemal Milesto eadline itical	nne 🔶 🖡	Critical S Progress Manual F	plit rogress								



						Project: Mainlaying in Tseung	g Kwan O									
Task Name		Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018	3	2019		20	020	. 1
	Issue CE No. 96 - Diversion of Uncharged Irrigation pipe at CH.A2+34 at Wan Po	0 days	Mon 18/1/21	Mon 18/1/21	Calendar Day]	100%	Mon 18/1/21	Mon 18/1/21	Q4 Q1	Q2 Q3	Q4 Q1	<u>Q2</u> Q3	<u>3 Q4 C</u>	<u>21 Q2 Q</u>	} Q4
)	Road CH.A0+00 - CH.A0+14 OC	45 days	Thu 16/6/22	Mon 8/8/22	HK Working Day 139		0%	NA	NA							
	CH.A0+14 - CH.A0+50 OC	156 days	Thu 23/5/19	Tue 26/11/19	HK Working Day		100%	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		100%	Mon 10/9/18	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 42+14 - CH 42+30 OC	150 days	Tue 1/9/20	Thu 4/3/21	HK Working Day		100%	Tue 1/9/20	Thu 4/3/21							100
		105 days	Tue 27/10/20	Thu 4/3/21	HK Working Day		100%	Tue 27/10/20	Thu 4/3/21							
		93 days	Tue 10/11/20	Thu 4/3/21	HK Working Day	178	100%	Tue 10/11/20	Thu 4/3/21							-
		74 days	Wed 2/12/20	Thu 4/3/21	HK Working Day 177		100%	Wed 2/12/20	Thu 4/3/21			_				
)		48 days	Tue 5/1/21	Thu 4/3/21	HK Working Day	180	100%	Tue 5/1/21	Thu 4/3/21							
	CH.A2+86 - CH.A2+94 OC	40 uays	rue 5/1/21	F-: 26/11/21	IK Working Day 170	105	100%	Fri E /2 /21	Eri 26/11/21						_	
	CH.A2+94 - CH.A3+34.5 OC (Excluding Road reinstatement	218 days	Fri 5/3/21	Fri 26/11/21	HK Working Day 179	195	100%	FII 5/3/21	FI 20/11/21			_				
	CH.A3+34.5 - CH.A3+60 OC with DN150 DAV	60 days	Wed 4/5/22	Fri 15/7/22	HK Working Day 197	182	0%	NA	NA							
	CH.A3+60 and connecting to Pit 1	30 days	Tue 3/1/23	Thu 9/2/23	HK Working Day 209,181	211,183	0%	NA	NA							
3	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							
4 TI	renchless 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							
5	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							
5	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				4			
3	Review alternative location for Pit 2 by WSD	29 days	Sat 6/2/21	Mon 15/3/21	HK Working Day 187	189	100%	Sat 6/2/21	Mon 15/3/21							
	Mobilization and excavation of Inspection Pit 2 after relocation	15 days	Tue 16/3/21	Thu 1/4/21	HK Working Day 188	190	100%	Tue 16/3/21	Thu 1/4/21							
)	Mobilization; Ground Investigation & Drilling Bored Hole at Receiving Pit 2	17 days	Wed 7/4/21	Mon 26/4/21	HK Working Day 189	192	100%	Wed 7/4/21	Mon 26/4/21							
	Issue EWN no. 405	0 days	Tue 18/5/21	Tue 18/5/21	HK Working Day		100%	Tue 18/5/21	Tue 18/5/21							
	Subletting and Re-Design for Pit 1 & Pit 2 (Changing from conventional sheet pilin	ng 84 days	Fri 30/4/21	Tue 10/8/21	HK Working Day 185,190	193	100%	Fri 30/4/21	Tue 10/8/21							
	method to pipe pilling method Tendering, Subletting and Award for Constructing Pit 1 & Pit 2 (Pipe Pilling Metho	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 20/10/21	Tue 3/5/22	HK Working Day	A CHARLES AND	94%	Wed 20/10/21	NA							
	Renopipe Release the working area for Luen Hing at Pit 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							
i	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							
	Percention Polocies the working area for Luon Hing TTA Implement at Pit 2	9 days	Wed 20/10/21	Fri 29/10/21	HK Working Day 193	199	100%	Wed 20/10/21	Fri 29/10/21				-			
	Renoppe Release the working area to Luch hing the inperimentation of a	67 days	Sat 30/10/21	Eri 14/1/22	HK Working Day 198	200	100%	Sat 30/10/21	Fri 14/1/22							
		03 days	Sat 30/10/21	Thu 28/4/22	HK Working Day 199	200	100%	Sat 36/10/21	Thu 28/4/22							
,	Excavation and ELS installation for Pit 2	82 days	Sat 15/1/22	Thu 20/4/22	HK Working Day 199	205	100%	Sat 15/1/22	NA							
1	TMB Pipe Jacking Pit 1- Pit 2	420 days	wed 4/5/22	Thu 28/9/23	HK Working Day		470	wed 4/5/22	NA							
2	Additional GI Works beside Pit 2	12 days	Wed 4/5/22	Wed 18/5/22	HK Working Day	203	100%	Wed 4/5/22	Wed 18/5/22							
3	Mobilization & setup at Pit 2	40 days	Thu 19/5/22	Wed 6/7/22	HK Working Day 200,202	204	0%	NA	NA							
24	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							
)5	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							
16	Setup Guard Rail	6 days	Sat 15/10/22	Fri 21/10/22	HK Working Day 205	207	0%	NA	NA							
07	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							
08	Formwork & Setup for Grouting the Gap between Pipe and Sleeve	3 days	Wed 21/12/22	Fri 23/12/22	HK Working Day 207,197	209	0%	NA	NA							
09	Grouting Works (30m/day)	5 days	Sat 24/12/22	Sat 31/12/22	HK Working Day 208	210,182	0%	NA	NA							
10	Construction of Combined Inspection and Washout Chamber Type I at Pit 2	45 days	Tue 3/1/23	Mon 27/2/23	HK Working Day 209	217,218,220	0%	NA	NA							
													1			



						Project: Mainlaying in Tseur	ng Kwan O				
ID Task N	ame	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2019 2024 2018 2019 2020 2021 2022 2023 2024 2025	
211	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	Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 <td< td=""></td<>	
212	Backfill Remove FIS and Road Reinstatement at Pit 2	30 days	Fri 25/8/23	Thu 28/9/23	HK Working Day 217		0%	NA	NA		
213	0000 Cut CH 45429 5 (Dit 2) to CH 47412	1476 days	Thu 30/8/18	Thu 24/8/23	HK Working Day	762	80%	Thu 30/8/18	NA		
214	Issue CE No. 06. Unforescent Underground Condition during Trench Excavation for	0 days	Fri 1/2/19	Fri 1/2/19	Calendar Day		100%	Fri 1/2/19	Fri 1/2/19	♦ 1/2	
214	Mainlaying at Wan Po Road between CH.A6+90 and CH.A7+10	0 days	Mon 20/1/20	Mon 20/1/20	Calendar Day		100%	Mon 20/1/20	Mon 20/1/20	◆ 20/1	
215	Issue CE No. 22 - Instruction to change in Mainlayign Method at war Po Road between CH.A6+54 and A6+61	odays	WON 20/1/20	Non 20/5/20	Calendar Day		100%	Map 20/6/20	Map 20/6/20	¢ 29/6	
216	Issue CE No. 25 - Unforeseen Underground Conditions during Trench Excavation at Wan Po Road between CH.A6+68 and CH.A6+88	U days	Mon 29/6/20	WION 29/6/20	Calendar Day		100%	1011 29/6/20	1011 25/0/20		
217	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		
218	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		
219	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		
220	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		
221	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		
222	CH.A6+54 - CH.A6+70 OC + Handshield	378 days	Mon 14/1/19	Sun 26/4/20	HK Working Day	221	100%	Mon 14/1/19	Sun 26/4/20		
223	CH.A6+70 - CH.A7+12 OC	111 days	Thu 30/8/18	Sat 12/1/19	HK Working Day	233	100%	Thu 30/8/18	Sat 12/1/19		
224	Open Cut CH.A7+12 to CH.A13+79.5	1323 days	Wed 19/9/18	Thu 9/3/23	HK Working Day	762,763	85%	Wed 19/9/18	NA		
225	Issue CE No. 18 - Unforeseen Ground Condition at open trench of Mainlaying at	0 days	Mon 27/5/19	Mon 27/5/19	Calendar Day		100%	Mon 27/5/19	Mon 27/5/19	♦ 27/5	
226	Wan Po Road between CH/A12+89 and Ch.A13+04 Issue CE No. 20 - Traffic Count and Preliminary Traffic Analysis in Po Lam Road and	0 days	Wed 19/6/19	Wed 19/6/19	Calendar Day		100%	Wed 19/6/19	Wed 19/6/19	♦ 19/6	
227	Tsui Lam Road 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	
228	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	
220	CH.ACH,A8+30	0 days	Mon 22/3/21	Mon 22/3/21	Calendar Dav		100%	Mon 22/3/21	Mon 22/3/21	* 22/3	
220	Extend of UU obstruction in Wan Po Road at CH.A11+80	0 days	Tue 12/10/21	Tue 12/10/21	Calendar Dav		100%	Tue 12/10/21	Tue 12/10/21	♦ 12/10	
230	extent of UU obstruction in Wan Po Road at CH. A0+88		Tue 22/6/21	Tue 19/10/21	UK Working Day 228	727	100%	Tue 22/6/21	Tue 19/10/21		
231	Tendering, Subletting and Award for Trenchless Works (CE No. 84)	99 days	Tue 22/0/21	Tue 13/10/21	HK Working Day 220	252	100%	Wed 20/10/21	Mon 21/2/22		
232	Submission and approval of Method Statement of Hand shield for CE No. 84	101 days	Wed 20/10/21	Wion 21/2/22	HK Working Day 231		100%	wed 20/10/21			
233	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///21		
234	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		
235	CH.A7+34 - CH.A7+50 OC	80 days	Mon 18/10/21	Fri 21/1/22	HK Working Day 234	236,239	100%	Mon 18/10/21	Fri 21/1/22		
236	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	Lie Contraction of the second s	
237	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		
238	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		
239	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		
240	CH.A8+63 - CH.A9+37 OC	100 days	Mon 1/8/22	Mon 28/11/22	HK Working Day 236,238,237,239		0%	NA	NA		
241	CH.A9+37 - CH.A10+18 OC	81 days	Thu 3/3/22	Mon 13/6/22	HK Working Day		60%	Thu 3/3/22	NA		
242	CH.A10+18 - CH.A11+51 OC	340 days	Tue 5/1/21	Mon 28/2/22	HK Working Day		90%	Tue 5/1/21	NA		
243	CH.A11+51 - CH.A12+12 OC with DN600 IT & DN300 Washout Chamber at	263 days	Tue 1/9/20	Fri 23/7/21	HK Working Day 244		100%	Tue 1/9/20	Fri 23/7/21		
244	CH.A12+00 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		
245	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		
246	CH 412+95 - CH 413+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		
247	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		
248	CU 412:40 CU 4 12:50 CC from Open Cut Trench to lacking Pit A	60 days	Fri 14/10/22	Thu 22/12/22	HK Working Day 280	247,293	0%	NA	NA		
240	CHALSTHU -CHALSTBU OL HUIH OPEN CAL HERCH LU JALNING FILA	1866 days	Tue 7/11/17	Mon 26/2/24	HK Working Dav		56%	Tue 7/11/17	NA		
249	Irenchiess work at wan Po Road From Pit A to Pit F	AED days	Tue 20/2/19	Tue 10/0/10	HK Working Day 79		100%	Tue 20/2/19	Tue 10/9/19		
250	Trial Pit Excavation for Pit 1 to Pit 20	462 days	Tue 20/2/18	Tue 10/9/19		702	100%	Tue 20/2/18	NIA		
251	Trenchless Works (Pit A to Pit D)	1354 days	Fri 2/8/19	Mon 26/2/24		763	51%	Fri 2/8/19			
252	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		
	Summary	Inacti	ve Milestone	Du	ration-only Start-only	C	External Milesto	one 🔶	Critical	Split	
Working Data Dat	e: 24 May 2022 Split Project Summary Nilestone Inactive Task) Inacti Manu	ve Summary (👘	M	anual Summary Rollup Finish-only anual Summary External Task	3	Deadline Critical	+	Progress Manual	s Progress	
						Paga 6					
		5					Project: Mainlaying in Tseung	Kwan O			
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ID Task Name		Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2019 2024
052		O dava	Thu 8/8/10	Thu 9/9/10	Calondar Day			100%	Thu 8/8/19	Thu 8/8/19	2018 2019 2020 2021 2022 2020 2021 2022 2020 2021 2022 202 20
253	Issue CE No. 21 - Temporary Diversion of Uncharted Underground Utilities near Wan O Road at CH. A16+00 (Pit B)	U days	Thu 8/8/19	1110 0/0/19	Calendar Day			100%			A 17//0
254	Issue CE No. 29 - Tree Transplant Works near CHA13+70	0 days	Thu 17/10/19	Thu 17/10/19	Calendar Day			100%	Thu 17/10/19	Thu 17/10/19	
255	Issue CE No. 32 - Additional grouting Treatment works at Pit B in Wan Po Road ne Wan O Road	ar O days	Mon 31/8/20	Mon 31/8/20	Calendar Day			100%	Mon 31/8/20	Mon 31/8/20	
256	Issue CE No. 118 - Non-destructive Void Detection Survey in TKO Area 137 betwee 1370it A and 1370it B	en O days	Tue 18/5/21	Tue 18/5/21	Calendar Day			100%	Tue 18/5/21	Tue 18/5/21	1 * 18/5
257	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
258	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
259	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
260	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	Y		100%	Mon 12/8/19	Sun 6/2/22	
261	Removal of Existing Planter for Jacking Pit A	6 days	Mon 15/6/20	Sat 20/6/20	HK Working Day	1	262	100%	Mon 15/6/20	Sat 20/6/20	
262	Include Dia 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	
202	Jacking Pit A with additional ground ground ground works	GCA days	Mop 12/8/10	Eri E/11/21	HK Working Day	,	299	100%	Mon 12/8/19	Fri 5/11/21	
263	Jacking / Receiving Pit B with additional ground grouting works	664 days	WON 12/8/19	FII 5/11/21			233	100%	NION 12/0/13	Thu 20/11/21	
264	Receiving Pit C with additional ground grouting works	295 days	Fri 29/11/19	Thu 26/11/20	HK Working Day	1		100%	Fri 29/11/19	Thu 26/11/20	
265	Construction of Jacking pit D	372 days	Wed 12/8/20	Thu 11/11/21	HK Working Day	Y		100%	Wed 12/8/20	Thu 11/11/2:	21
266	TTA submission and Approval , Suspension of Parking Meters and TTA Impleme	ent 112 days	Wed 12/8/20	Tue 1/12/20	Calendar Day		267	100%	Wed 12/8/20	Tue 1/12/20	
267	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	
268	Design Submission with ICE Certificate for Jacking Pit D	26 days	Fri 15/1/21	Wed 17/2/21	HK Working Day	y 267	269,270	100%	Fri 15/1/21	Wed 17/2/21	
269	Approval of Design of Jacking Pit D	8 days	Thu 18/2/21	Fri 26/2/21	HK Working Day	y 268	271	100%	Thu 18/2/21	Fri 26/2/21	
270	Annroval Existing Sub-contractor to carry out Construction of Jacking Pit D	0 days	Fri 26/3/21	Fri 26/3/21	HK Working Day	y 268	271	100%	Fri 26/3/21	Fri 26/3/21	* 26/3
271	Machilization and Riso Rilo Wall Construction for Lacking Rit D	78 days	Thu 1/4/21	Fri 9/7/21	HK Working Day	v 270.269	272	100%	Thu 1/4/21	Fri 9/7/21	
2/1		104 days	C=+ 10/7/71	Thu 11/11/21	UK Working Day	,,	202	100%	Sat 10/7/21	Thu 11/11/21	21
272	Construction of Jacking Pit D at Car Park	104 days	Sat 10/7/21	110 11/11/21		y 2/1	202	10078	Jac 10/7/21	110 11/11/2.	
273	New Routing From Pit A to Pit D)	553 days	Thu 14/4/22	Mon 26/2/24	HK Working Da	Ŷ		0%	Thu 14/4/22	NA	
274	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	Ŷ	275	100%	Thu 14/4/22	Thu 14/4/22	2
275	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	y 274	278,279,286	0%	NA	NA	
276	Trial Pit Excavation at Pit A1	3 days	Sat 14/5/22	Tue 17/5/22	HK Working Da	у		100%	Sat 14/5/22	Tue 17/5/22	2
277	Remove Central Divider between Wan O Road amd Shek Kok Road	81 days	Mon 16/5/22	Fri 19/8/22	HK Working Da	У		0%	Mon 16/5/22	NA	
278	Trial Pit Excavation at Pit WPR	10 days	Sat 2/7/22	Wed 13/7/22	HK Working Da	y 275	287	0%	NA	NA	
279	Trial Pit Excavation at Pit SKR	10 days	Sat 2/7/22	Wed 13/7/22	HK Working Da	y 275	288,285,284	0%	NA	NA	
280	Pine Laving (OC) from Pit A1 towward KLN (124m)	124 days	Tue 17/5/22	Thu 13/10/22	HK Working Da	v	281,248	0%	Tue 17/5/22	NA	
200		60 days	Fri 14/10/22	Thu 22/12/22	HK Working Da	v 280	282	0%	NA	NA	
281	Pipe Laying (OC) from WPK (N/B)(the 1st Lane to the sid lane) (solid)	oo l	5 : 22/42/22	Tue 10/4/22		. 281		0%	NA	NA	
282	Pipe Laying (OC) crossing WPR Junction with Wan O Road to Central Divider (73m)	90 days	Fri 23/12/22	Tue 18/4/23	HK WORKING Da	y 281		0%	INA	NA	
283	Pipe Laying (OC) along Central Divider to Pit WPR (340m)	340 days	Fri 20/5/22	Wed 12/7/23	HK Working Da	У	295,287	0%	Fri 20/5/22	NA	
284	Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)	200 days	Thu 14/7/22	Tue 14/3/23	HK Working Da	y 279	288	0%	NA	NA	
285	Pipe Laying (OC) from Pit SKR to Pit D (Remaining 110m)	110 days	Thu 14/7/22	Tue 22/11/22	HK Working Da	y 279	297	0%	NA	NA	
286	Construction of Pit A1	90 days	Sat 2/7/22	Tue 18/10/22	HK Working Da	y 275	289	0%	NA	NA	
287	Construction of Pit WPR	90 days	Thu 13/7/23	Sat 28/10/23	HK Working Da	y 278,283		0%	NA	NA	
288	Construction of Pit SKR	90 days	Wed 15/3/23	Thu 6/7/23	HK Working Da	y 279,284	290	0%	NA	NA	
289	Headshield Tunneling fom Pit A to Pit A1 (102m)	170 days	Wed 19/10/2	2 Wed 17/5/23	HK Working Da	y 286	291	0%	NA	NA	
200	Upped chield Tunneling for Pit SKR to Pit WPR (64m)	107 days	Fri 7/7/23	Sat 11/11/23	HK Working Da	av 288	292	0%	NA	NA	
201		AD dave	Thu 18/5/22	Mon 26/6/22	Calendar Day	289	293,294	0%	NA	NA	
291	WIS PIPE LAYING IN SEGMENT FROM PILA TO PILAL	40 uays	File 10/ 5/ 25	Mc= 11/12/23	2 Calcada- D-	290	205 205	0%	NA	NA	
292	MS Pipe Laying in Segment from Pit SKR to Pit WPR	30 days	Sun 12/11/23	wion 11/12/2	5 Calendar Day	290	293,290	070			
293	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 Da	ay 291,248		0%	NA	NA	
294	Pipe Connection works at Pit A1	12 days	Tue 27/6/23	Tue 11/7/23	HK Working Da	ay 291		0%	NA	NA	
	Taul Cummary		tive Milestone	Di	uration-only	Start-only	C F	Atemal Milesto	one 🚸	Critical	zal Split
Working Prog Data Date : 2	gramme No. 15 133. Summary 4 May 2022 Split Project Summary) Inac	tive Summary	M	anual Summary Rollup	Finish-only] [Neadline Vritical	+	Progres	ress and Prorress
	Milestone Milestone Inactive Task	Man	una 105	М		 External Task 	Page 7			Preside	

						Project: Mainlaying in Tseung	Kwan O	1.0.1	A should be for											
D Task I	Name	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Pinisn		2018			20	019 019	1	1	2020		1
295	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	Q4	Q1	Q2	Q3 0	Q4 Q	21 Q2	Q3	Q4	<u>QI</u>	<u>22 Q3</u>	Q4
296	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	\vdash						_		_		
297	Pipe Connection Works and construction of Washout Chamber at Pit D	60 days	Wed 23/11/22 Mon 8/11/21	Tue 7/2/23 Mon 23/5/22	HK Working Day 285 HK Working Day		0% 100%	NA Mon 8/11/21	NA Mon 23/5/22	-										
299	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	+										
300	ingress	30 days	Thu 24/3/22	Wed 4/5/22	HK Working Day 299	301	100%	Thu 24/3/22	Wed 4/5/22											
301	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	-				-		-				
302	TBM 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	Wed 23/3/22					+	_					
303	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									-	_	
304	DN1920 Steel Jacked Pipe (Pit D - Pit C) (CH.A19+26 to CH.A22+80) in Soil (370m,	; 51 days	Wed 19/1/22	Tue 22/3/22	HK Working Day 303		100%	Wed 19/1/22	Tue 22/3/22	-										
305 306	2.5m/day) Pipe Jacking stopped on 23/3/2022 Form Pit D Crossing Wan Po Road and Lohas Park Road to TKO Landfill Stage I (Area	0 days 2046 days	Wed 23/3/22 Tue 7/11/17	Wed 23/3/22 Wed 14/6/23	HK Working Day Calendar Day	763	100% 55%	Wed 23/3/22 Tue 7/11/17	Wed 23/3/22 NA	-				_	_	-				_
307	A) Issue CF 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			
308	across MT Tunnel Issue CF 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	-										
309	Tender & Subletting	71 days	Fri 27/9/19	Fri 6/12/19	Calendar Day 307		100%	Fri 27/9/19	Fri 6/12/19							4				
310	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	-		-						T		
311	Ground Investigation GI No. 3	33 days	Tue 25/2/20	Thu 2/4/20	HK Working Day 310		100%	Tue 25/2/20	Thu 2/4/20	-	-					_				_
312	Issue CE No. 77 - Design of Water Main Structure and Modification Works to the	0 days	Wed 21/10/20	Wed 21/10/20	Calendar Day	313,314,315	100%	Wed 21/10/20	Wed 21/10/20	D										21
313	Affected Geotechnical Features in Wan Po Road and Lohas Park Road Quotation Submission and Acceptant for CE No. 77	72 days	Wed 21/10/20	Thu 31/12/20	Calendar Day 312		100%	Wed 21/10/20	Thu 31/12/20											
314	CE No. 77 - Submission of Geotechnical Assessment Repot	42 days	Wed 21/10/20	Tue 1/12/20	Calendar Day 312		100%	Wed 21/10/20	Tue 1/12/20	1										
315	CE No. 77 - Design Submission	72 days	Wed 21/10/20	Thu 31/12/20	Calendar Day 312	316,317	100%	Wed 21/10/20	Thu 31/12/20	T	-									
316	CE No. 77 - Approval of Design Submission	0 days	Fri 3/9/21	Fri 3/9/21	Calendar Day 315		100%	Fri 3/9/21	Fri 3/9/21										*	
317	Issue CE No. 67 - Realignment of Water Main near Wan Po Road and Lohas Park	0 days	Wed 11/8/21	Wed 11/8/21	Calendar Day 267,315	319	100%	Wed 11/8/21	Wed 11/8/21											
318	Road Obtain MTR's approval on the alignment and construction method about MTR's	91 days	Mon 13/12/21	Mon 14/3/22	Calendar Day 320FF	348,347	100%	Mon 13/12/21	Mon 14/3/22	T										
319	tunnels 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											
320	TTA approval and Implement for CE No. 67	125 days	Wed 27/10/21	Mon 28/2/22	Calendar Day 319	348,318FF,347	100%	Wed 27/10/21	Mon 28/2/22										dana's contract	
321	Handshield Crossing Wan Po Road (CH.FA0+15 to CH.FA0+50)	1484 days	Tue 7/11/17	Thu 10/11/22	HK Working Day		48%	Tue 7/11/17	NA	-										
322	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											
323	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											
324	Tree Felling and Tree Works at Slope Feature 12SW-A/FR102	7 days	Mon 21/6/21	Mon 28/6/21	HK Working Day 323		100%	Mon 21/6/21	Mon 28/6/21											
325	Approval TTA for Loading and Unloading at R27	0 days	Wed 1/6/22	Wed 1/6/22	HK Working Day	326	0%	NA	NA											
326	Strengthen Works at Feature 12SW-A/R27	80 days	Wed 1/6/22	Sat 3/9/22	HK Working Day 325		0%	NA	NA											
327	Strengthen Works at Feature 12SW-A/R28	98 days	Tue 14/12/21	Thu 14/4/22	HK Working Day	329	100%	Tue 14/12/21	Thu 14/4/22						N .	a free a				
328	Concrete coring and breaking opening on Retaining Wall (R27)	1 day	Tue 7/11/17	Tue 7/11/17	None	335	0%	NA	NA	1										
329	Concrete coring and breaking opening on Retaining Wall (R28)	30 days	Wed 27/4/22	Thu 2/6/22	HK Working Day 327	330	3%	Wed 27/4/22	NA											
330	Handshield Establishment	14 days	Sat 4/6/22	Mon 20/6/22	HK Working Day 329	331	0%	NA	NA											
331	Mild Steel Sleeve Pipe in Soil Mix (35m; 0.6m/day)	58 days	Tue 21/6/22	Sat 27/8/22	HK Working Day 330	332	0%	NA	NA											
332	Remove establishment	6 days	Mon 29/8/22	Sat 3/9/22	HK Working Day 331	333	0%	NA	NA											
333	Setup for Pipe Laying inside jacking	6 days	Mon 5/9/22	Sat 10/9/22	HK Working Day 332	334	0%	NA	NA											
334	DN900 MS Pipe Laying inside jacking pipe (35m) (say 3 days per 8m)	15 days	Tue 13/9/22	Thu 29/9/22	HK Working Day 333	335	0%	NA	NA											
335	Formwork & Setup for Grouting the gap between pipe and Sleeve	6 days	Fri 30/9/22	Sat 8/10/22	HK Working Day 334,328	336	0%	NA	NA											
336	Grouting Works (30 meter/day)	4 days	Mon 10/10/2	2 Thu 13/10/22	2 HK Working Day 335	337	0%	NA	NA											
337	Pipe laying Works From Pit D to CH.FA0+15	24 days	Fri 14/10/22	Thu 10/11/22	2 HK Working Day 336	339	0%	NA	NA											
Working	Programme No. 15 Task Summary	Inact	ive Milestone	D	uration-only Start-only	E E	temal Milesto	ne 🔷	Critical S	Split										
Data Da	te : 24 May 2022 Split Project Summary Milestone Inactive Task) Inact Manu	ive Summary f	M	Ianual Summary Rollup Finish-only Ianual Summary External Tasks		eadline ritical	+	Progress Manual	Progres	5	_			_					
						Page 8														



						Project: Mainlaying in Tseur	ng Kwan O				
ID Task Nan	ne	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	20	2019 2024 8 2019 2020 2021 2022 2023 2024 2025
338	Vertical 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 Q	
339	CH.FA0+85) Vertical pipes with Concrete Surround	30 days	Fri 11/11/22	Thu 15/12/22	HK Working Day 337	340	0%	NA	NA		
340	Exposed pipes with concrete surround	30 days	Fri 16/12/22	Thu 26/1/23	HK Working Day 339	341	0%	NA	NA		
341	Open cut pipe laving with concrete surround	30 days	Wed 10/5/23	Wed 14/6/23	HK Working Day 359,340		0%	NA	NA		
342	Hand Shield Pine Jacking crossing Johas Park Road	289 days	Thu 19/5/22	Tue 9/5/23	HK Working Day		0%	Thu 19/5/22	NA		
343	MTP's Consent for Construction of Dit F	0 days	Thu 19/5/22	Thu 19/5/22	HK Working Day	347	100%	Thu 19/5/22	Thu 19/5/22		19/5
344		0 days	Wed 1/6/22	Wed 1/6/22	HK Working Day	348	99%	Wed 1/6/22	NA		▶ 1/6
245			Mon 6/6/22	Mon 6/6/22	HK Working Day	349	99%	Mon 6/6/22	NA		♦ 6/6
343	MTR's Consent for Construction of Pit G	0 days	Man 13/6/22	Mon 12/6/22	HK Working Day	349	99%	Mon 13/6/22	NA		♦ 13/6
340	Loading & Unloading 11A for Pit G	0 uays	Man 22/5/22	WOI 13/0/22	HK Working Day 219 220 242	545	0%	Mon 23/5/22	NA		
347	Construction of Receiving Pit E	45 days	WION 23/5/22	Ff1 15/7/22	HK WOIKing Day 516,520,545	250	076	NA			
348	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		
349	Construction of Receiving Pit G	45 days	Mon 13/6/22	Thu 4/8/22	HK Working Day 345,346		0%	NA	NA		
350	Establishment at Pit F	14 days	Tue 26/7/22	Wed 10/8/22	HK Working Day 348	351	0%	NA	NA		
351	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		
352	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		
353	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		
354	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		
355	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		
356	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		
357	DN900 MS Pipe Laying from Pit F to Pit G (20m) (say 3 days per 4m)	15 days	Fri 14/4/23	Tue 2/5/23	HK Working Day 356	358	0%	NA	NA		
358	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	Wed 3/5/23	Fri 5/5/23	HK Working Day 357	359	0%	NA	NA		
359	Grouting Works (30 meter/day)	3 days	Sat 6/5/23	Tue 9/5/23	HK Working Day 358	341,361	0%	NA	NA		
360	Vertical Pipes, Exposed Pipes & Burned Pipes above MTR Tunnels (CH.FA1+50 to	1657 days	Tue 7/11/17	Wed 14/6/23	HK Working Day		59%	Tue 7/11/17	NA	-	
361	CH.FA2+17) Vertical pipes with Concrete Surround	30 days	Wed 10/5/23	Wed 14/6/23	HK Working Day 359		0%	NA	NA		
362	Exposed pipes with concrete surround	60 days	Tue 15/2/22	Fri 29/4/22	HK Working Day 366		0%	NA	NA		
363	Site Clearance at Storage Yard	3 days	Mon 1/11/21	Wed 3/11/21	HK Working Day 319	366	100%	Mon 1/11/21	Wed 3/11/21	L	
364	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		
365	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		
366	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 14/2/22	2	
367	Open cut pipe laying from CH.FA2+04 to CH.FB0+03 & Connect to DN900SV	42 days	Tue 7/11/17	Wed 27/12/17	HK Working Day		0%	NA	NA	-	
368	Chamber 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 Day		91%	Thu 23/8/18	NA		
369	South Waterfront Promenade Issue CF No. 05 - Feasibility Studey Realignment of pipline at Tseung Kwan O Stage I	0 days	Thu 23/8/18	Thu 23/8/18	Calendar Day		100%	Thu 23/8/18	Thu 23/8/18		♦ 23/8
370	Landfill Issue CF No. 36 - Realignment of Watermain along the Bituminous Road adiacent to	0 days	Fri 22/5/20	Fri 22/5/20	Calendar Day		100%	Fri 22/5/20	Fri 22/5/20		
371	Lohas Park Road	0 days	Tue 5/11/19	Tue 5/11/19	Calendar Day		100%	Tue 5/11/19	Tue 5/11/19		* 5/11
372		712 days	Fri 15/5/20	Fri 7/10/22	HK Working Day	764	85%	Fri 15/5/20	NA		
372	CU CR0+00 DN200 Weshout Chamber	60 days	Tue 7/12/21	Mon 21/2/22	HK Working Day 374		0%	NA	NA		
274	CH.FB0+00 Division washout chamber	377 days	Sat 5/9/20	Mon 6/12/21	HK Working Day	373	100%	Sat 5/9/20	Mon 6/12/21	1	
274	CH'EROFOR - CH'ER TEPP OC MILL DIAGOR AGIAS CUBILIDEL MICH DIATOR DA-bass	270 days	Eri 15/5/20	Sat 21/8/21	HK Working Day	5.5	100%	Eri 15/5/20	Sat 21/8/21		
315	CH.FB1+66 - CH.FB 5+39 OC	579 uays	FIT 13/3/20	Wed 11/9/21	HK Working Day 204	291	100%	Mon 12/4/21	Wed 11/8/21	1	
376	CH.FB5+34 - CH.FC 0+00 OC	TOT GaAs	Tue 21 (5/22	Tue 26/7/22	HK Working Day 411	378	100%	NΔ	NA	-	
377	CH.FB 5+34 DN300 DN600 IT Chamber	30 days	Tue 21/6/22	Tue 26/7/22		570	0%		NA		
378	CH.FB 5+34 DN300 Washout Chamber	60 days	Wed 27/7/22	Fri 7/10/22	HK WORKING Day 3//		0%				
379	TKO 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		
Working Dr	neramme No. 15 Task Summary	Inact	ive Milestone	Du	aration-only Start-only	Ę	External Milesto	one 👳	Critical	Split	
Data Date :	24 May 2022 Split Project Summary Villestone Inactive Task	Inact Man	ave Summary (and Task	M	anual Summary Koliup Finish-only anual Summary External Tas	L ks	Critical		Progress Manual	l Progress	
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						Project: Mainlaying in Tseung	g Kwan O			
ID Task Na	e	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2019 2024 2018 2019 2020 2021 2022 2023 2024 2025
380	CH.FC 0+00 - CH.FC 0+29 OC	38 days	Mon 12/7/21	Tue 24/8/21	HK Working Day 381		100%	Mon 12/7/21	Tue 24/8/21	Q4 Q1 Q2 Q3 Q4 Q1 Q1 Q2 Q3 Q4 Q1 Q1 Q2 Q3 Q4 Q1 Q1 Q2 Q1
381	CH. FC 0+29 - CH. FC 0+65 OC	56 days	Sat 19/6/21	Tue 24/8/21	HK Working Day 382,376	380	100%	Sat 19/6/21	Tue 24/8/21	
382	CH.FC 0+65 - CH.FC 0+95 OC	34 days	Wed 26/2/20	Mon 6/4/20	HK Working Day	383,381	100%	Wed 26/2/20	Mon 6/4/20	
383	CH FC 0+95 - CH FC 1+27 OC	30 days	Mon 6/4/20	Fri 15/5/20	HK Working Day 382	384	100%	Mon 6/4/20	Fri 15/5/20	
384	сн FC 1+27 - CH FC 1+59 ОС	31 days	Fri 15/5/20	Fri 19/6/20	HK Working Day 383	385	100%	Fri 15/5/20	Fri 19/6/20	
385	CH EC 1+59 - CH EC 1+91 OC	21 days	Fri 19/6/20	Wed 15/7/20	HK Working Day 384	386	100%	Fri 19/6/20	Wed 15/7/20	
386	CH EC 1+91 - CH EC 2+23 DC	29 days	Wed 15/7/20	Mon 17/8/20	HK Working Day 385	387	100%	Wed 15/7/20	Mon 17/8/20	
387		25 days	Mon 17/8/20	Mon 14/9/20	HK Working Day 386	388	100%	Mon 17/8/20	Mon 14/9/20	
388		38 days	Mon 14/9/20	Fri 30/10/20	HK Working Day 387	389	100%	Mon 14/9/20	Fri 30/10/20	
380		24 days	Fri 30/10/20	Thu 26/11/20	HK Working Day 388	390	100%	Fri 30/10/20	Thu 26/11/20	
200	CH.FC 2+87 - CH.FC 3+19 OC	24 days	Thu 26/11/20	Fri 18/12/20	HK Working Day 389	391	100%	Thu 26/11/20	Fri 18/12/20	
390	CH.FC 3+19 - CH.FC 3+51 OC	20 days	F-: 18/12/20	Map 25/1/21	HK Working Day 300	202	100%	Eri 18/12/20	Mon 25/1/21	
391	CH.FC 3+51 - CH.FC 3+83 OC	30 days	Fri 18/12/20	Wioli 25/1/21	HK Working Day 390	392	100%	Mon 25/1/21	Wod 24/2/21	
392	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%		Wed 24/2/21	
393	CH.FC 4+15 - CH.FC 4+47 OC	17 days	Wed 24/2/21	Mon 15/3/21	HK Working Day 392	394	100%	Wed 24/2/21	Mon 15/3/21	
394	CH.FC 4+47 - CH.FC 4+89 C	21 days	Mon 15/3/21	Mon 12/4/21	HK Working Day 393	376	100%	Mon 15/3/21	Mon 12/4/21	
395	TKO South Waterfront Promenade (CH.FC4+87 - CH.FC 8+71)	458 days	Tue 24/3/20	Sat 9/10/21	HK Working Day		100%	Tue 24/3/20	Sat 9/10/21	
396	CH.FC 4+89 - CH.FC 5+19 OC with DN600 IT	72 days	Tue 24/3/20	Mon 22/6/20	HK Working Day	397	100%	Tue 24/3/20	Mon 22/6/20	
397	CH.FC 5+19 - CH.FC 5+51 OC	29 days	Mon 22/6/20	Mon 27/7/20	HK Working Day 396	398	100%	Mon 22/6/20	Mon 27/7/20	
398	CH.FC 5+51 - CH.FC 5+83 OC	32 days	Mon 27/7/20	Tue 1/9/20	HK Working Day 397	399	100%	Mon 27/7/20	Tue 1/9/20	
399	CH.FC 5+83 - CH.FC 6+15 OC	28 days	Tue 1/9/20	Mon 5/10/20	HK Working Day 398	400	100%	Tue 1/9/20	Mon 5/10/20	
400	CH.FC 6+15 - CH.FC 6+47 OC	27 days	Mon 5/10/20	Thu 5/11/20	HK Working Day 399	401	100%	Mon 5/10/20	Thu 5/11/20	
401	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%	Thu 5/11/20	Thu 3/12/20	
402	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%	Thu 3/12/20	Fri 8/1/21	
403	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%	Fri 8/1/21	Fri 29/1/21	
404	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	
405	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	
406	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	
407	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	
408	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	
409	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	
410	Construct DN150 DAV Chamber at CH.FC 9+83	30 days	Tue 21/6/22	Tue 26/7/22	HK Working Day 411		0%	NA	NA	
411	сн гс 8+59 - СН FC 9+83 ОС	200 days	Fri 15/10/21	Mon 20/6/22	HK Working Day 412,408	423,377,410	80%	Fri 15/10/21	NA	
412	CH CC 9493 - CH CC 13426 OC with Monitoring Chamber	402 davs	Tue 14/4/20	Thu 19/8/21	HK Working Day	411	100%	Tue 14/4/20	Thu 19/8/21	
413	Victor Mains New Purge Loi Pood (CH ED0400 - CH 43451)	1070 days	Wed 17/6/20	Thu 23/11/23	HK Working Day		60%	Wed 17/6/20	NA	
414	trater mails wear rule to hold (chir boros - chiarta)	0 days	Wed 17/6/20	Wed 17/6/20	Calendar Day		100%	Wed 17/6/20	Wed 17/6/20	0 * 17/6
414	Issue of No. 97 - Lanuscaping Survey near no rap and Poing Loi Noau	0 dave	Tue 22/12/20	Tue 22/12/20	Calendar Day	416	100%	Tue 22/12/20	Tue 22/12/20	20 * 22/12
415	Issue CE No. 87 - Affected Trees near Pung Loi Koad, Po Tap Koad and Wait Po Koad	204 days	Tuo 22/12/20	Thu 21/10/21	Calendar Day 415 614	417	100%	Tue 22/12/20	Thu 21/10/21	71
416	TPRP Submission and Approval	SU4 days	Fri 32/10/21	The 11/11/21	Calendar Day 415,014	427	100%	Fri 22/10/21	Thu 11/11/21	
417	Site Possession and Tree Removal Works	21 days	FII 22/10/21	The 27/5/21	Colondar Day	447	100%	Thu 27/5/24	Thu 27/5/24	◆ 27/5
418	Issue CE No. 60 - Realignment of Water Main near Pung Loi Road	U days	Thu 27/5/21	Thu 27/5/21	Calendar Day	419,421	100%	Thu 27/5/21	Thu 11/11/21	
419	Tender Process and Tender Award for CE No. 60	169 days	Thu 27/5/21	Inu 11/11/21	Calendar Day 418	420	100%	Fun 7/11/20	Fri 4/2/22	
420	Design & Method Statement Submission and Approval ; Preparation Works for CE No 60	o. 90 days	Sun 7/11/21	Fri 4/2/22	Calendar Day 419	424	100%	Sun //11/21	Fri 4/2/22	
421	TTA preparation, SLG meetings and obtain RA	188 days	Thu 27/5/21	Tue 30/11/21	Calendar Day 418	427,429	100%	Thu 27/5/21	Tue 30/11/2:	
	Task Summary	Inact	ive Milestone	D	aration-only Start-only	E E	External Milesto	one 🔶	Critical	ıl Split
Working Pr Data Date	ogramme IVO. 15 24 May 2022 Split Project Summary Milestone Inactive Task] Inact Man	ive Summary	M M	anual Summary Rollup Finish-only anual Summary External Tau	ks I	Deadline Critical	+	Progress Manual	A Progress
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						Project: Mainlaying in Tseung	Kwan O											
Task Nam	3	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish		2018			2019			2020	
2	Open Trench Crossing Pung Loi Avenue	156 days	Mon 20/6/22	Fri 23/12/22	HK Working Day		0%	NA	NA	QI	Q1	Q2 Q	<u>3 Q4</u>	Q1	Q2 0	Q3 Q4	Q1	Q2 Q3
3	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				-					
		100 days	Fri 8/7/22	Fri 4/11/22	HK Working Day 420,423	425	0%	NA	NA			-						
		A2 days	Sat 5/11/22	Fri 23/12/22	HK Working Day 424		0%	NA	NA	-					_			
		42 days	Mon 2/1/22	Wod 22/2/22	HK Working Day		36%	Mon 3/1/22	NA	_				-				
	Exposed Pipe From CH.FDD0+65 to FDSKR+00	337 days	Won 3/1/22	weu 22/2/25		420	50%	Wed 12/1/22	NA									
	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	INA								_	
	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						604			
	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									
	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			-				-		
	CH.EDD3+15 to CH.EDD3+51 OC with DN900 Valve Chamber and By-pass Pipe and	80 days	Thu 8/6/23	Mon 11/9/23	HK Working Day 433	435,764,765	0%	NA	NA	-								_
	Connection to Pit WPR1	60 days	Tue 12/9/23	Thu 23/11/23	HK Working Day 433,434,431		0%	NA	NA	-				-				
		758 days	Thu 20/8/20	Sat 11/3/23	HK Working Day	765	78%	Thu 20/8/20	NA	-				-				W
v	ater Mains near Pung Loi Koad and Po Yap Koad (CH.FE0+00 - CH.A5+56)	756 Uays	Thu 20/0/20	Sat 11/5/25			100%	Thu 20/8/20	Wed 20/9/20			-	-	-				
	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									
	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 J1A	93 days	Sat 20/2/21	Wed 16/6/21	HK Working Day 440	465,442,443	100%	Sat 20/2/21	Wed 16/6/21									
	Design & Method Statement Submission and Approval ; Preparation Works for Pit	125 days	Thu 17/6/21	Sat 13/11/21	HK Working Day 441	452	100%	Thu 17/6/21	Sat 13/11/21									
	G1A Design & Method Statement Submission and Approval ; Preparation Works for Pit	125 days	Thu 17/6/21	Sat 13/11/21	HK Working Day 441	450	100%	Thu 17/6/21	Sat 13/11/21	-								
	WPR1	293 days	Fri 13/11/20	Wed 1/9/21	Calendar Day 439	448	100%	Fri 13/11/20	Wed 1/9/21	-		_		-	_			
	The preparation, see includings on a spanning	717 days	Fri 9/10/20	Sat 11/3/23	HK Working Day		50%	Fri 9/10/20	NA	-				-				
	Trenchiess crossing with fullifiels (Fit WHAT to Fit GIA)	10 days	Fri 0/10/20	Sup 1/11/20	HK Working Day		100%	Eri 9/10/20	Sup 1/11/20	-				-		_	_	
	Inspection Pit at Location of Pit GIA	19 uays		541 1/11/20			100%	Wed 1/0/21	Cat 5/2/22					-				
	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	3dt 3/ 3/ 22	4								
	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									
	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									
	Jacking Pit WPR1 (Near Pung Loi Road)	91.2 days	Fri 5/11/21	Sat 5/3/22	HK Working Day 449,443	454	100%	Fri 5/11/21	Sat 5/3/22									
	Planter Removal and Access Formation to pit G1A	13 days	Wed 1/9/21	Wed 15/9/21	HK Working Day	452	100%	Wed 1/9/21	Wed 15/9/21									
	Receiving Pit G1A (Near Po Yap Road)	91 days	Mon 27/9/21	Sat 15/1/22	HK Working Day 451,442	470,454	100%	Mon 27/9/21	Sat 15/1/22									
	TBM Pipe Jacking (WPR1 to J1A)	301 days	Mon 7/3/22	Sat 11/3/23	HK Working Day		14%	Mon 7/3/22	NA								-	
	TRM Establishment at Pit WPR1	38 days	Mon 7/3/22	Sat 23/4/22	HK Working Day 450,452	455	100%	Mon 7/3/22	Sat 23/4/22	-				+				
		112 days	Sun 24/4/22	Tue 6/9/22	HK Working Day, 454	456	5%	Sun 24/4/22	NA					_				
	Jacking DN1600 Precast Concrete Sieeve Pipe (224iii, 2.0ii)/day)	112 days	Sull 24/4/22	F-: 22/0/22	LIK Working Day 455	457	0%	NA	NA					_			_	
	Remove setup including Thrust Wall at Pit WPR1	14 days	wed 7/9/22	Ff1 23/9/22		437	076	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									
	Grouting Works (30m per day)	8 days	Tue 17/1/23	Sat 28/1/23	HK Working Day 459	461	0%	NA	NA									
	Pipe Connection inside Working Pit WPR1	18 days	Mon 30/1/23	Sat 18/2/23	HK Working Day 460	462	0%	NA	NA	T								
-	Remove ELS including extracting sheet piles at Pit WPR1; Reinstatement	18 days	Mon 20/2/23	Sat 11/3/23	HK Working Day 461		0%	NA	NA	-				-				
	Transklass Works (Dit G1A or Dit 11A)	320 days	Mon 3/5/21	Tue 31/5/22	HK Working Day		97%	Mon 3/5/21	NA	+				+-				
	renchiess works (Pit GIA of Pit JIA)	SLU uays	11511 57 57 21	140 54 51 22												_		



						Project: Mainlaying in Tseung	g Kwan O			
ID Task Na	une	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2019 2024 2018 2019 2021 2022 2023 2024 2025
464	Construction of Jacking Pit J1A (Hand Shield)	32 days	Mon 3/5/21	Wed 9/6/21	HK Working Day		100%	Mon 3/5/21	Wed 9/6/21	
465	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	
466	Handshield Pipe Jacking (Pit G1A to Pit J1A)	288 days	Thu 10/6/21	Tue 31/5/22	HK Working Day		96%	Thu 10/6/21	NA	
467	Establishment at Pit J1A	16 days	Thu 10/6/21	Tue 29/6/21	HK Working Day 465	468	100%	Thu 10/6/21	Tue 29/6/21	
468	Hand shield pipe jacking (I.D. 1600 segment pipe), 0.65m/day	101 days	Wed 30/6/21	Fri 29/10/21	HK Working Day 467	469	100%	Wed 30/6/21	Fri 29/10/21	
469	Remove Setup at Pit J1A	6 days	Sat 30/10/21	Fri 5/11/21	HK Working Day 468	470	100%	Sat 30/10/21	Fri 5/11/21	
470	Setun for Pine Laving inside jacking Pit J1A	14 days	Tue 8/3/22	Wed 23/3/22	HK Working Day 469,452	471	100%	Tue 8/3/22	Wed 23/3/22	
471	DN1200 MS Pine Laving incide jacking nine (~70m) (3 days ner 4m)	42 days	Thu 24/3/22	Wed 18/5/22	HK Working Day 470	472	100%	Thu 24/3/22	Wed 18/5/22	
472	Formular & Sotup for Grouting the gan between nine and Sleeve	8 days	Thu 19/5/22	Fri 27/5/22	HK Working Day 471	473	50%	Thu 19/5/22	NA	
472	Formition K a setup for Grouting the gap between pipe and sizere	3 days	Sat 28/5/22	Tue 31/5/22	HK Working Day 472	475	0%	NA	NA	
475		138 days	Tue 26/4/22	Tue 11/10/22	HK Working Day		7%	Tue 26/4/22	NA	
4/4		62 days	Tue 26/4/22	Sat 13/8/22	HK Working Day 473	476	13%	Tue 26/4/22	NA	
4/5	Pipe Laying From Pit K to Pit JIA (OC) (48m)	15 days	Map 15/9/22	Wod 21/8/22	HK Working Day 475	477	0%	NA	NA	
4/6	Construction of Thrust Block from Pit K to Pit JIA	15 days	Thu 1/0/22	Thu 22/0/22	HK Working Day 475	479	0%	NA	NΔ	
477	Backfill Trench and Remove ELS	18 days	Thu 1/9/22	Thu 22/9/22	HK Working Day 476	476	0%	NA	NA	
478	Reinstatement of Plant and Shrubs in Roundabout	14 days	Fri 23/9/22	Tue 11/10/22	HK Working Day 477	707	078	na r.: 28/2/20	NA	
479	Trenchless Work from Po Yap Road Roundabout to KMB Depot (Pit K to Pit L) (Pit O to Pit P)	822 days	Fri 28/2/20	Mon 5/12/22	HK Working Day	705	1000/	Thu 11 (5 /20	Thu 11/6/20	11/6
480	Issue CE No. 50 - Realignment of Watermain at the Junction of Wan Po Road and Po Yap Road and the Junction of Po Hong Road and Po Shun Road.	0 days	Thu 11/6/20	Thu 11/6/20	Calendar Day		100%	Thu 11/6/20	Thu 11/6/20	
481	Construction of Jacking Pit K & Pit P	263 days	Fri 28/2/20	Fri 15/1/21	HK Working Day		100%	Fri 28/2/20	Fri 15/1/21	
482	Inspection Pit Excavation at Pit K	16 days	Fri 28/2/20	Tue 17/3/20	HK Working Day		100%	Fri 28/2/20	Tue 17/3/20	
483	Inspection Pit Excavation at Pit P	3 days	Mon 29/6/20	Thu 2/7/20	HK Working Day		100%	Mon 29/6/20	Thu 2/7/20	
484	Forming temporary Vehicle Access for Pit P	10 days	Thu 16/7/20	Mon 27/7/20	HK Working Day	486	100%	Thu 16/7/20	Mon 27/7/20	
485	Jacking Pit K	15 days	Sat 14/11/20	Tue 1/12/20	HK Working Day	489	100%	Sat 14/11/20	Tue 1/12/20	
486	Jacking Pit P + additional Grouting	137 days	Mon 3/8/20	Fri 15/1/21	HK Working Day 484		100%	Mon 3/8/20	Fri 15/1/21	
487	Hand Shield Jacking (Pit K to Pit L)	125 days	Fri 11/12/20	Tue 18/5/21	HK Working Day		100%	Fri 11/12/20	Tue 18/5/21	
488	MTR'S Consent Obtained	0 days	Fri 11/12/20	Fri 11/12/20	HK Working Day		100%	Fri 11/12/20	Fri 11/12/20	♦ 11/12
489	Establishment at Pit K	59 days	Mon 14/12/20	Fri 26/2/21	HK Working Day 485,531	490	100%	Mon 14/12/20	Fri 26/2/21	
490	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 Day 489	491	100%	Mon 1/3/21	Thu 13/5/21	
491	Remove setup at Pit K	4 days	Thu 13/5/21	Tue 18/5/21	HK Working Day 490	499	100%	Thu 13/5/21	Tue 18/5/21	
492	TBM Pipe Jacking (Pit O to Pit P)	169 days	Wed 19/1/22	Tue 16/8/22	HK Working Day		50%	Wed 19/1/22	NA	
493	WSD accepted to change Sub-Contractor from Wellcon to VTEC	0 days	Wed 16/2/22	Wed 16/2/22	HK Working Day 555		100%	Wed 16/2/22	Wed 16/2/22	2 • 16/2
494	TBM Establishment at Pit O	79 days	Wed 19/1/22	Thu 28/4/22	HK Working Day	495	100%	Wed 19/1/22	Thu 28/4/22	
495	Jacking DN1600 Precast Concrete Sleeve Pipe (200m; 3.0m/day)	67 days	Fri 29/4/22	Wed 20/7/22	HK Working Day 494	496	8%	Fri 29/4/22	NA	
496	Grouting around sleeve pipes	9 days	Thu 21/7/22	Sat 30/7/22	HK Working Day 495	508,497	0%	NA	NA	
497	Remove Pit setup at Pit P	14 days	Mon 1/8/22	Tue 16/8/22	HK Working Day 496	508	0%	NA	NA	
498	DN1200 Pipelaying (Pit K to Pit L)	116 days	Tue 14/12/21	Wed 11/5/22	HK Working Day		22%	Tue 14/12/21	NA	
499	Setup for Pipe Laying inside jacking Pit K	6 days	Tue 14/12/21	Fri 7/1/22	HK Working Day 491,545	500	100%	Tue 14/12/21	Fri 7/1/22	
500	DN1200 MS Pipe Laving inside jacking pipe (53m) (3 days per 4m) (Only Internal	15 days	Sat 8/1/22	Tue 25/1/22	HK Working Day 499	501	100%	Sat 8/1/22	Tue 25/1/22	
501	Coating) Formwork & Setup for Grouting the gap between pipe and Sleeve	2 days	Wed 26/1/22	Sat 29/1/22	HK Working Day 500	502	100%	Wed 26/1/22	Sat 29/1/22	
502	Grouting Works (30 meter/dav)	4 days	Wed 9/2/22	Sat 12/2/22	HK Working Day 501	503,505	100%	Wed 9/2/22	Sat 12/2/22	
503	Pine Connection at Pit L	9 days	Thu 10/2/22	Sat 19/2/22	HK Working Day 502	504	10%	Thu 10/2/22	NA	
501	Remove FIS at Pit I	24 davs	Mon 21/2/22	Sat 19/3/22	HK Working Day 503		0%	NA	NA	
505		24 days	Mon 14/2/22	Sat 12/3/22	HK Working Day 502	506	0%	NA	NA	
505	הפוחסעה ברא פר גור ע									
Working P	rogramme No. 15 Task Summary	Inact	ive Milestone	D	uration-only Start-only	С В С Т	External Milesto Deadline	one 🐟	Critical Progres	l Split
Data Date	: 24 May 2022 Split Project summary T Nilestone Inactive Task	Man	ual Task	N N	anual Summary External Tash	ks C	Critical		Manua	Progress
						Page 12				

							Project: Mainlaying in Tseur	ng Kwan O											
ID Task	Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018	2019 2019	2020	2021	2022	01 01 01 0	23	2024 2024 01 02 03	2025
506	Construction of DN900 Valve Chamber and DN150 By-pass Pipe & Valves Near Pit K	45 days	Mon 14/3/22	Wed 11/5/22	HK Working Day	y 505	515	0%	NA	NA	Q4 Q1 Q2 Q3 Q	1 QI Q2 Q3	Q4 Q1 Q2 Q	23 Q4 Q1 V			21 Q2 Q3 Q4		
507	DN1200 Pipelaying (Pit P to Pit O)	92 days	Wed 17/8/22	Mon 5/12/22	HK Working Day	у		0%	NA	NA						ĢQ			
508	Setup for Pipe Laying inside jacking Pit O	6 days	Wed 17/8/22	Tue 23/8/22	HK Working Day	y 496,497	509	0%	NA	NA						1			
509	DN1200 MS Pipe Laying inside jacking pipe (187m) (3 days per 8m)(Only Internal	70 days	Wed 24/8/22	Wed 16/11/22	HK Working Day	y 508	510	0%	NA	NA									
510	Coating) Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	Thu 17/11/22	Sat 19/11/22	HK Working Day	y 509	511	0%	NA	NA						1			
511	Grouting Works (30 meter/day)	6 days	Mon 21/11/22	Sat 26/11/22	HK Working Day	y 510	577,512,610	0%	NA	NA									
512	Pipe Connection at Pit O	6 days	Mon 28/11/22	Sat 3/12/22	HK Working Day	y 511	513	0%	NA	NA						-			
513	Remove ELS at Pit O	1 day	Mon 5/12/22	Mon 5/12/22	HK Working Day	y 512		0%	NA	NA						1			
514	Reinstatement of Po Yan Road Roundabout	66 days	Thu 12/5/22	Fri 29/7/22	HK Working Day	y		0%	NA	NA									
515	Poinstatement Works	60 days	Thu 12/5/22	Fri 22/7/22	HK Working Day	y 506	516	0%	NA	NA									
516	Handover Inspection with LCSD	6 days	Sat 23/7/22	Fri 29/7/22	HK Working Day	y 515		0%	NA	NA						1			
517	Tanuover inspection with LCSD	1251 days	Tue 2/4/19	Mon 26/6/23	HK Working Da	v	765	80%	Tue 2/4/19	NA						-			
510		0 days	Tup 2/4/19	Tue 2/4/19	Calendar Day		521 522	100%	Tue 2/4/19	Tue 2/4/19		♦ 2/4							
510	Velodrome and TKO stage 1 Landfill and CCTV survey of existing Drain at Cycle Track	0 days	Map 12/1/20	Mon 12/1/20	Calendar Day		521 522	100%	Mon 13/1/20	Mon 13/1/20			♦ 13/1						
519	Issue CE No. 28 - Realignment of Water Mains along Po Yap Koad and Po Hong Koad	0 days	Tue 20/5/20	Tue 20/5/20	Calendar Day		JEI,JEE	100%	Tue 20/5/20	Tue 30/6/20			*	30/6					
520	Issue CE No. 28A - Affected Trees along Cycle Track next to Hong Kong Velodrome an Tseung Kwan O Sport Ground	d U days	Tue 30/6/20	Tue 30/6/20	Calendar Day	510 518		100%	Map 18/11/10	Map 24/2/20									
521	Tender and Subletting for CE No. 28	99 days	Wion 18/11/19	Wion 24/2/20	Calendar Day	519,518	522	100%	Non 12/1/20	Tue 10/5/20									
522	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	523	100%	Won 13/1/20	Tue 19/5/20						-			
523	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	Tue 2/6/20									
524	Form Temporary Vehicle Access at TKO Sport Ground	5 days	Mon 1/6/20	Mon 8/6/20	HK Working Day	y 523	525	100%	Mon 1/6/20	Mon 8/6/20									
525	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	y 524	526	100%	Tue 9/6/20	Fri 19/6/20									
526	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 Da	y 525	527	100%	Sat 20/6/20	Tue 23/6/20									
527	Mobilization of Sheet-piles and Driving Machines	7 days	Wed 24/6/20	Fri 3/7/20	HK Working Da	y 526	534,532	100%	Wed 24/6/20	Fri 3/7/20					-				
528	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									
529	Trenchless Works (Pit L to Pit O)	882 days	Sat 4/7/20	Mon 26/6/23	HK Working Da	ау		77%	Sat 4/7/20	NA									
530	Construction of Jacking Pit & Receiving Pit	175 days	Sat 4/7/20	Sat 30/1/21	HK Working Da	ау		100%	Sat 4/7/20	Sat 30/1/21									
531	Receiving Pit L	81 days	Sat 24/10/20	Sat 30/1/21	HK Working Da	ay 532	489	100%	Sat 24/10/20	Sat 30/1/21									
532	Jacking Pit M	89 days	Sat 11/7/20	Sat 24/10/20	HK Working Da	ay 527	531,547	100%	Sat 11/7/20	Sat 24/10/20									
533	Receiving Pit N	66 days	Thu 30/7/20	Fri 16/10/20	HK Working Da	зу		100%	Thu 30/7/20	Fri 16/10/20									
534	Jacking / Receiving Pit O + additional Grouting	124 days	Sat 4/7/20	Sat 28/11/20	HK Working Da	ay 527	551	100%	Sat 4/7/20	Sat 28/11/20									
535	TBM Pipe Jacking (Pit M to Pit L)	273 days	Thu 13/5/21	Mon 11/4/22	HK Working Da	ау		100%	Thu 13/5/21	Mon 11/4/22	2								
536	Re-establishment at Pit M for changing jacking direction	64 days	Thu 13/5/21	Thu 29/7/21	HK Working Da	ау 549	537	100%	Thu 13/5/21	Thu 29/7/21									
537	DN1600 Precast Concrete Sleeve Pipe (Pit M - Pit L) approx. 10m	12 days	Fri 30/7/21	Thu 12/8/21	HK Working Da	ay 536	538,539	100%	Fri 30/7/21	Thu 12/8/21									
538	TBM suspended, review for Rescue pit construction	5 days	Fri 13/8/21	Wed 18/8/21	HK Working Da	ay 537	540	100%	Fri 13/8/21	Wed 18/8/21					1				
539	Review and study the alternative construction method (Open Cut in normal	26 days	Fri 13/8/21	Sun 12/9/21	HK Working Da	ay 537	544	100%	Fri 13/8/21	Sun 12/9/21									
540	condition) Rescue Pit Construction & Retrieval of TBM	39 days	Thu 19/8/21	Tue 5/10/21	HK Working Da	ay 538	541	100%	Thu 19/8/21	Tue 5/10/21									
541	Set up working platform and lifting grantry at Rescue Pit for Handshield; Formi	ng 23 days	Mon 11/10/22	1 Sat 6/11/21	HK Working Da	ay 540	542	100%	Mon 11/10/2	1 Sat 6/11/21									
542	Entrance Hand dig tunnel between Pit M and Rescue Pit	22 days	Mon 8/11/21	Thu 2/12/21	HK Working Da	ay 541	543	100%	Mon 8/11/21	Thu 2/12/21								-	
543	Remove setup & removal of Thrust wall	14 days	Fri 3/12/21	Sat 18/12/21	HK Working Da	ay 542	560	100%	Fri 3/12/21	Sat 18/12/21									
544	WSD accepted Alternative Scheme from Pit O to Pit L	0 days	Mon 6/9/21	Mon 6/9/21	HK Working Da	ay 539	545	100%	Mon 6/9/21	Mon 6/9/21					6/9				
545	Water mains by Open Cut Method (West Portion - 143m)	171 days	Mon 13/9/21	Mon 11/4/22	HK Working Da	ay 544	560,499	100%	Mon 13/9/21	Mon 11/4/22	2								
546	TBM Pipe Jacking (Pit M to Pit N)	159 days	Mon 26/10/2	0 Wed 12/5/21	HK Working D	ay		100%	Mon 26/10/2	0 Wed 12/5/2	1			-	-				
547	Establishment at Pit M	29 days	Mon 26/10/2	0 Sat 28/11/20	HK Working Da	ay 532	548	100%	Mon 26/10/2	0 Sat 28/11/20)								
		•		12															
Workin	g Programme No. 15 Task Summary Project Summary Project Summary	Inact	ive Milestone	D	aration-only 🔤 anual Summary Rollup 😑	Start-only Finish-only	C 3	External Milesto Deadline	one 🔶	Critical Progress	Split s								
Data Da	Milestone Inscrive Task	Man	ral Task	M	anual Summary	External Task	Daga 12	Critical		Manual	Progress								-
							1 160 15												

				_		Project: Mainlaying in Tseun	g Kwan O										
k Name		Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2	2018		2019			2020	
	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	Q1	Q2 Q3	Q4	Q1 Q	2
	in Soil (134m; 3.5m/day) Grouting around sleeve pipe	11 days	Thu 29/4/21	Wed 12/5/21	HK Working Day 548	536	100%	Thu 29/4/21	Wed 12/5/21								
14	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								
	DN1600 Precast Concrete Sleeve Pipe (Pit O - Pit N) Suspended due to water	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								-
	Remove TBM from Rescue Pit; Detail Inspection ad Trial operation on ground	30 days	Mon 19/7/21	Sat 21/8/21	HK Working Day 554	556,557,493	100%	Mon 19/7/21	Sat 21/8/21	-		-				-	-
	Dismantle and remove set up at Pit O	12 days	Mon 23/8/21	Sat 4/9/21	HK Working Day 555		100%	Mon 23/8/21	Sat 4/9/21								-
	Review and study the alternative construction method (Open Cut in wet	12 days	Mon 23/8/21	Sat 4/9/21	HK Working Day 555	558	100%	Mon 23/8/21	Sat 4/9/21				+			_	-
	condition)	0 days	Mon 6/9/21	Mon 6/9/21	HK Working Day 557	574	100%	Mon 6/9/21	Mon 6/9/21				-		-	_	_
	WSD accepted Alternative Scheme from Pic O to Pic C	33 days	Mon 20/12/21	Sat 29/1/22	HK Working Day		100%	Mon 20/12/21	Sat 29/1/22								_
	DN1200 Pipelaying in side Hang big junnel (Pit Wite Pit C)	55 uays	Mar 20/12/21	5-1 24/12/21	UK Working Day 542 545	561	100%	Mon 20/12/21	Eri 24/12/21				_				_
	setup for pipe laying inside hand dig tunnel	5 days	wion 20/12/21	rii 24/12/21	IIK Working Day 545,545	501	100%	Tuo 28/12/21	Cat 8/1/22				_				_
	DN1200 MS Pipe Laying inside Hand dig tunnel	tu days	Tue 28/12/21	sat 8/1/22		502	100%	Wed 42/12/21	Jat 0/ 1/22						-		
	Formwork & Setup for Grouting the gap between pipe and Sleeve	5 days	Wed 12/1/22	Mon 17/1/22	HK Working Day 561	563	100%	wea 12/1/22	wion 17/1/22								
	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						3		
	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								Ĩ
	Coating) Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	Thu 9/6/22	Sat 11/6/22	HK Working Day 567	569	0%	NA	NA								
	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 Pipelaving (Pit O to Pit N)	296 days	Wed 12/1/22	Wed 11/1/23	HK Working Day		24%	Wed 12/1/22	NA								
Į.	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								
		12 days	Tue 19/7/22	Mon 1/8/22	HK Working Day 569,574	576	0%	NA	NA						_		_
		24 days	Tue 2/8/22	Mon 29/8/22	HK Working Day 575	580	0%	NA	NA						_		_
	Remove ELS Including extracting sheet plies at Pit N	12 days	Mon 28/11/22	Sat 10/12/22	HK Working Day 511	578	0%	NA	NA				_			_	_
	Pipe Connection in side Pit O		WOII 20/11/22	Jac 10/12/22	IIK Working Day 577	570	0%	NA	NA						_		_
	Remove ELS including extracting sheet piles at Pit O	24 days	WION 12/12/22	wed 11/1/25		360	070	110	NA NA				_				_
	Reinstallation of Cycle track Pavement and Planter	132 days	Thu 12/1/23	Mon 26/6/23	HK Working Day		0%	NA	IVA								
	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								
	Handover Inspection with LCSD and HyD	6 days	Mon 19/6/23	Mon 26/6/23	HK Working Day 581		0%	NA	NA								
Wa	ater Mains from KMB Depot to TKO Fresh Water Preliminary Service Reservoir	1649 days	Tue 7/11/17	Mon 5/6/23	HK Working Day		80%	Tue 7/11/17	NA	-							1
	Issue CE No. 04 - Feasibility Study of Realignment of Pipeline between Po Hung Road and TKO Freehwater PSR	0 days	Thu 23/8/18	Thu 23/8/18	Calendar Day		100%	Thu 23/8/18	Thu 23/8/18			23/	/8				
	Issue CE No. 51 - Realignment of Water Main in Tsui Lam Section	0 days	Mon 3/8/20	Mon 3/8/20	Calendar Day	590,587,736,588,589	100%	Mon 3/8/20	Mon 3/8/20								Ĩ
	Issue WSD Letter Ref.: (4) in WSD/M/7503/13/WSD/16/M15/300/51 for additional	0 days	Thu 3/9/20	Thu 3/9/20	Calendar Day		100%	Thu 3/9/20	Thu 3/9/20								
	works to CE No. 51 Tendering Process, Tender Award for CE No. 51 (Batch No, 1)	82 days	Mon 3/8/20	Fri 23/10/20	Calendar Day 585		100%	Mon 3/8/20	Fri 23/10/20								
	Tendering Process, Tender Award for CE No. 51 (Batch No. 2)	102 days	Mon 3/8/20	Thu 12/11/20	Calendar Day 585		100%	Mon 3/8/20	Thu 12/11/20)			-				
	Tendering Process, Tender Award for CE No. 51 (Batch No. 3))	200 days	Mon 3/8/20	Thu 18/2/21	Calendar Day 585	735,737	100%	Mon 3/8/20	Thu 18/2/21								
									5	al. Inde		-		i			



							Project: Mainlaying in Tseung F	Kwan O											
ID Ta	k Name	Duration	Start	Finish	Task Calendar Pr	redecessors	Successors	% Complete	Actual Start	Actual Finish		2018		2019 2019		2020	0		20
590	TTA preparation. SLG meetings, obtain RA and implement Advanced Works	100 days	Mon 3/8/20	Tue 10/11/20	Calendar Day 5	85		100%	Mon 3/8/20	Tue 10/11/20	Q4	Q1 Q2	Q3 Q4	Q1 C	2 Q3	Q4 Q1	Q2	Q3 Q4	Q
591	Ground Investigation at Pit R	1 day	Mon 21/12/20	Mon 21/12/20	HK Working Day			100%	Mon 21/12/20	Mon 21/12/20									1
592	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 8/1/21	Fri 8/1/21				-					•
593	Receiving of Drawing No. SK40134-517 for Changing Construction Method and	0 days	Fri 30/7/21	Fri 30/7/21	HK Working Day			100%	Fri 30/7/21	Fri 30/7/21						_			-
594	Alignment from Pit P to Pit T 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								Ŧ	-
595	Incrue FWN No. 241 for Tree Issue for Changing Trenchless (Pit S to Pit T) to Open	0 davs	Tue 24/11/20	Tue 24/11/20	HK Working Day		626	100%	Tue 24/11/20	Tue 24/11/20						_		\$	24/
596	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						_			+
597	WSD perced to care out Horizontal grout from Dit P to Dit 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									+
508		43 days	Wed 12/5/21	Sat 3/7/21	HK Working Day 5	97	600	100%	Wed 12/5/21	Sat 3/7/21						-			1
500	Modilization and Carry out Horizontal grouting	74 days	Eri 25/6/21	Mon 20/9/21	HK Working Day			100%	Eri 25/6/21	Mon 20/9/21									+
599	Receiving Pit Y	74 days	Map E/7/21	Sat 22/10/21	HK Working Day	508 	601	100%	Mon 5/7/21	Sat 23/10/21					_				+
600	Establishment and Set up for pipe jacking at Pit P	93 days	Wion 5/7/21	5dt 25/10/21	HK Working Day 5	500	001	100%	Mon 25/10/21	Thu 27/1/22									_
601	Jacking DN1600 Precast Concrete Sleeve Pipe	79 days	Mon 25/10/21	Thu 27/1/22	HK WORKING Day 6	500	60255	100%	Thu 27/1/22	Thu 27/1/22					_				-
602	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					_				
603	WSD obtained approval from TD, KMD and HyD	0 days	Thu 12/5/22	Thu 12/5/22	Calendar Day 6	502FF	604	100%	Thu 12/5/22	Thu 12/5/22									
604	Constuction of Rescure Pit at KMB Depot and Remove TBM	90 days	Fri 13/5/22	Sat 27/8/22	HK Working Day 6	503	606,608,609,605	1%	Fri 13/5/22	NA									
605	Pipe Laying from Pit P to Rescure Pit at KMB Depot	54 days	Mon 29/8/22	Wed 2/11/22	HK Working Day 6	504	610	0%	NA	NA									
606	Open Cut at KMB Depot Stage 1	72 days	Mon 29/8/22	Wed 23/11/22	HK Working Day 6	504	607	0%	NA	NA									
607	Open Cut at KMB Depot Stage 2	72 days	Thu 24/11/22	Wed 22/2/23	HK Working Day 6	506		0%	NA	NA									
608	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 6	504		0%	NA	NA					and the second sec				
609	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 6	504		0%	NA	NA									
610	Pipe Connection inside Working Pit P	18 days	Mon 28/11/22	Sat 17/12/22	HK Working Day 6	505,511	611	0%	NA	NA									
611	Construction of Combined chamber at Pit P	48 days	Mon 19/12/22	Sat 18/2/23	HK Working Day 6	610	612	0%	NA	NA									
612	Remove ELS including extracting sheet piles at Pit P; Reinstatement	18 days	Mon 20/2/23	Sat 11/3/23	HK Working Day 6	611		0%	NA	NA									+
613	Hand Shield Pipe Jacking from Pit R to Pit Y	300 days	Fri 18/12/20	Wed 22/12/21	HK Working Day			100%	Fri 18/12/20	Wed 22/12/21									-
614	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 18/12/20	Fri 18/12/20								4	• 1
615	works near Po Hong Road and Ling Hong Road Jacking / Receiving Pit R	25 days	Fri 16/7/21	Fri 13/8/21	HK Working Day		616	100%	Fri 16/7/21	Fri 13/8/21									T
616	Establishment at Pit R	10 days	Sat 14/8/21	Wed 25/8/21	HK Working Day 6	615	617	100%	Sat 14/8/21	Wed 25/8/21									t
617	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 6	616	618	100%	Thu 26/8/21	Thu 7/10/21									
618	Remove Setup at Pit R	13 days	Fri 8/10/21	Sat 23/10/21	HK Working Day	617	619	100%	Fri 8/10/21	Sat 23/10/21									+
619	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 25/10/21	Sat 6/11/21									1
620	DN1200 MS Pipe Laving 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									-
621	Coating) Formwork & Setup for Grouting the gap between pipe and Sleeve	2 days	Sat 20/11/21	Mon 22/11/21	HK Working Day	620	622	100%	Sat 20/11/21	Mon 22/11/21	L				_				-
622	Grouting Works	9 days	Mon 13/12/21	Wed 22/12/21	HK Working Day	621	624	100%	Mon 13/12/21	Wed 22/12/21	-								
623	Once Out Execution from Dit 8 to Main Win Tsai Abandon Road	239 days	Mon 10/5/21	Fri 25/2/22	HK Working Day		767	100%	Mon 10/5/21	Fri 25/2/22									-
624	Open Cut excavation non Pick to Max We 15th Powner (Connecting to Pit R)	49 days	Fri 24/12/21	Fri 25/2/22	HK Working Day	622.627	625	100%	Fri 24/12/21	Fri 25/2/22					-				+
624	Open Cut, CH. HAUT28 - CH. HAUT48 With DAY Chamber (Connecting to Fit h)	36 days	Eri 24/12/21	Thu 10/2/22	HK Working Day (624		100%	Fri 24/12/21	Thu 10/2/22									-
625	Construction of Divyou valve chamber with by-pass at Ch. nA0744	75 days	Mop 10/5/21	Sup 8/8/21	HK Working Day	635 595	627	100%	Mon 10/5/21	Sun 8/8/21									-
626	Open Cut, CH.HA0+48 - CH.HA 1+20 OC with Division in Chamber (Connecting Original CH.HA0+80)	75 days	Mar 22/8/21	Tue 5/10/21	UK Working Day	635,555	524	100%	Mon 22/8/21	Tue 5/10/21			-						+
627	Construction of Wash Out Chamber & Reserved Tee at CH.HA0+49	36 days	ivion 23/8/21	Tue 5/10/21		020	767	019/	Tuo 22/6/21	NA				_				-	
628	Open Trench Pipe laying at Abandoned Road	451 days	Tue 22/9/20	Thu 31/3/22	HK WORKING Day		/6/	91%	Tue 22/9/20										
629	Issue CE No. 121 - Non-explosive agent in Abandoned Road Near Mau Wu Tsai Village	0 days	Fri 25/6/21	Fri 25/6/21	HK Working Day			100%	Fri 25/6/21	Fri 25/6/21								+ 0	2/0
630	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	19
631	Issue CE No. 86 - Tree Affected in Mainlaying Works near Mau Wu Tsai Village	0 days	Mon 12/10/20	0 Mon 12/10/20	0 HK Working Day		632	100%	Mon 12/10/20) Mon 12/10/20	ן							• 1	12/10
	Task Summary	Inact	tive Milestone	Du	aration-only	Start-only	C Ext	temal Milesto	ne 🧇	Critical S	plit								
Work Data	ate : 24 May 2022 Split Project Summary Nilestone) Inact Man	tive Summary 👘 ual Task 📄	Ma	anual Summary Rollup	Finish-only External Tasks	De De	adline itical	+	Progress Manual F	rogress	-				•			
							Page 15												



						Project: Mainlaying in Tseun	g Kwan O			9					
ID T	ask Name	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018		2019		2020	2
632	Tree survey, TPRP Submission and Receiving TPRP approval	295 days	Tue 22/9/20	Mon 20/9/21	HK Working Day 631	661,633	100%	Tue 22/9/20	Mon 20/9/21	Q4 Q1 Q2	Q3 Q4	Q1 Q2	Q3 Q4	Q1 Q2	Q3 Q4 0
633	Mobilization and Tree Removal	23 days	Tue 21/9/21	Wed 20/10/21	HK Working Day 632	663,636	100%	Tue 21/9/21	Wed 20/10/21						
634	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						
635	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						
636	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						
637	Open 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						
638	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						
639	Open Cut. CH.HA4+68 - CH.HA5+21	60 days	Tue 14/6/22	Tue 23/8/22	HK Working Day 638,640		0%	NA	NA						
640	Open Cut. CH.HA5+21 - CH.HA5+55 (Pit W)	60 days	Mon 28/3/22	Mon 13/6/22	HK Working Day	639	95%	Mon 28/3/22	NA					-	
641	Trenchless Work at Po Lam Road South	259 days	Wed 14/4/21	Thu 24/2/22	HK Working Day	NICE OF ALL OF	100%	Wed 14/4/21	Thu 24/2/22						
642	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		-	-			
643	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						
644	Inspection Pit Everyation 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					_	
645	Construction of Jacking / Bacalying Pits	107 days	Sat 24/4/21	Tue 31/8/21	HK Working Day		100%	Sat 24/4/21	Tue 31/8/21						
646	Possible Distriction of Sacking / According 140	8 days	Mon 23/8/21	Tue 31/8/21	HK Working Day 643		100%	Mon 23/8/21	Tue 31/8/21						
647		31 days	Sat 24/4/21	Tue 1/6/21	HK Working Day 644	649	100%	Sat 24/4/21	Tue 1/6/21						
649		219 days	Wed 2/6/21	Thu 74/7/77	HK Working Day		100%	Wed 2/6/21	Thu 24/2/22						
048	Hand Shield Pipe Jacking from Pit W to Pit X ("85m)	1E days	Wed 2/6/21	Sat 19/6/21	HK Working Day 647	650	100%	Wed 2/6/21	Sat 19/6/21		-				
649	Establishment at Pit X	IS days	Thu 9/7/21	Tuo 12/7/21	HK Working Day 649	651	100%	Thu 8/7/21	Tue 13/7/21						
650	Form Entrance Opening at pit X	5 udys	Mod 14/7/21	re: 9/10/21	HK Working Day 650	652 653	100%	Wed 14/7/21	Fri 8/10/21						
651	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	652,053	100%	Mop 11/10/21	Wod 27/10/21	1					
652	Rearrangement Wailing and Form Exit Opening at Pit W	14 days	Mon 11/10/21	Wed 27/10/21	HK Working Day 651	654	100%	Set 0/10/21	r-i 16/10/21						
653	Remove Setup it Pi X	5 days	Sat 9/10/21	Fri 15/10/21	HK Working Day 651	654	100%	5at 9/10/21	FIT 13/10/21						
654	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						
655	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	Inu 25/11/21						
656	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						
657	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						Deservation
658	Open Trench Pipe Laying at Po Lam Road (West Bound)	465 days	Mon 20/7/20	Fri 11/2/22	HK Working Day	767,768	100%	Mon 20/7/20	Fri 11/2/22						A 007
659	Issue CE No. 68 - TIA for TTA at Po Lam Road	0 days	Mon 20/7/20	Mon 20/7/20	HK Working Day	660	100%	Mon 20/7/20	Mon 20/7/20						◆ 20/7
660	Traffic Survey and Revise TIA, revised TTA Drawings, Obtain RA	177 days	Mon 20/7/20	Sat 20/2/21	HK Working Day 659	665	100%	Mon 20/7/20	Sat 20/2/21						
661	Mobilization and Tree Removal	29 days	Tue 21/9/21	Wed 27/10/21	HK Working Day 632	663,664,662	100%	Tue 21/9/21	Wed 27/10/2	1					
662	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						
663	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						
664	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						
665	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						
666	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						
667	Water Main Structure and Associated Pipe Support across the Natural Stream	730 days	Tue 5/5/20	Tue 18/10/22	HK Working Day	768	93%	Tue 5/5/20	NA					-	
668	Design Submission (CE No. 55) for Water Main Structure and Associated Pipe	37 days	Tue 5/5/20	Tue 16/6/20	HK Working Day	669	100%	Tue 5/5/20	Tue 16/6/20						
669	WSD & GEO Review and Approve	121 days	Wed 17/6/20	Thu 15/10/20	Calendar Day 668	672	100%	Wed 17/6/20	Thu 15/10/20)					
670	Tendering Process, Tender Award for CE No. 51 (Location A Mini-pile Works)	113 days	Wed 26/8/20	Wed 16/12/20	0 Calendar Day		100%	Wed 26/8/20	Wed 16/12/2	0					
671	Issue CE No. 55 - Design of the Water Mains Structure and Associated Pipe Suppo	ort 0 days	Tue 5/5/20	Tue 5/5/20	Calendar Day		100%	Tue 5/5/20	Tue 5/5/20					\$ 5	5/5
672	across the Natural Stream Course for Alternative Alignment in Tsul Lam Tender and Subletting (Mini-Pile)	62 days	Fri 16/10/20	Wed 16/12/2	0 Calendar Day 669		100%	Fri 16/10/20	Wed 16/12/2	0					
673	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	0 Calendar Day		100%	Wed 28/10/2	0 Wed 28/10/2	:0					28
Wor Data	king Programme No. 15 Date : 24 May 2022 Milestone Inactive Task	inact Inact Man	tive Milestone tive Summary and Task	Du M	aration-only Start-only Start-only annual Summary Rollup Finish-only annual Summary F External Task	L] ks Paop 16	External Milesto Deadline Critical	one 🔹	Critical Progress Manual	Split ,					



						Project: Mainlaying in Tseung	, Kwan O			
ID Task Nan	le	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2019 2024 2018 2019 2020 2021 2022 2023 2024 2025 4
674	Tree survey, TPRP Submission and Receiving TPRP approval (HyD)	227 days	Mon 31/8/20	Tue 8/6/21	HK Working Day	676	100%	Mon 31/8/20	Tue 8/6/21	Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 <td< td=""></td<>
675	East Portion - Foundation Works (PC-C1, PC-T1 & PC-P1)	283 days	Wed 9/6/21	Tue 24/5/22	HK Working Day		99%	Wed 9/6/21	NA	
676	Mobilization and Tree Removal	24 days	Wed 9/6/21	Thu 8/7/21	HK Working Day 674	677	100%	Wed 9/6/21	Thu 8/7/21	
677	Frect Temporary Timber Platform for Piling Works	7 days	Fri 9/7/21	Fri 16/7/21	HK Working Day 676	678	100%	Fri 9/7/21	Fri 16/7/21	
678	Pro-drilling works (PD6-PD7 & PD8) & confirmation of rock head and depth of	25 days	Sat 17/7/21	Sat 14/8/21	HK Working Day 677	679,686	100%	Sat 17/7/21	Sat 14/8/21	
679	mini-pile	39 days	Mon 16/8/21	Thu 30/9/21	HK Working Day 678	680	100%	Mon 16/8/21	Thu 30/9/21	
680	Mobilization and Driving Dia. 525 min steer Casting (14 nos)	18 days	Mon 11/10/21	Mon 1/11/21	HK Working Day 679	681.684	100%	Mon 11/10/21	Mon 1/11/21	
000	Cleaning, Insert 150 reinforcement and Grouting	10 uays	Tue 1/2/22	Thu 17/2/22	HK Working Day 680	683 687	100%	Tue 1/3/22	Thu 17/3/22	
681	Setup and Loading Test of Mini-Pile (I-1)	15 days	Tue 1/3/22	Fild 17/5/22	HK Working Day 680	005,002	100%	Eri 18/2/22	Sat 26/3/22	
682	Setup and Loading Test of Mini-Pile (C1-2)	a days	Fri 18/3/22	541 20/5/22	HK Working Day 081	694	100%	Eri 19/2/22	Sat 20/5/22	
683	Construction Pile Caps (P1) with Pier 1	50 days	Fri 18/3/22	Sat 21/5/22	HK WORKING Day 681	664	100%	FII 10/3/22	Sat 21/ 5/ 22	
684	Remove Timber platform for Piling Works	2 days	Mon 23/5/22	Tue 24/5/22	HK Working Day 683,680	694	0%	Wion 23/5/22	NA	
685	West Portion - Foundation Works (PC-P2, PC-P3 & PC-C2)	241 days	Tue 5/10/21	Fri 29/7/22	HK Working Day	13.当合养	98%	Tue 5/10/21	NA	
686	Mobilization and Tree Removal	3 days	Tue 5/10/21	Thu 7/10/21	HK Working Day 678	687	100%	Tue 5/10/21	Thu 7/10/21	
687	Erect Temporary Timber Platform for Piling Works	5 days	Thu 28/10/21	Tue 2/11/21	HK Working Day 686	688	100%	Thu 28/10/21	Tue 2/11/21	
688	Pre-drilling works (P WPR, PSKR, PD3, PD4 & PD5) & confirmation of rock head	16 days	Fri 26/11/21	Tue 14/12/21	HK Working Day 687,703,707	689	100%	Fri 26/11/21	Tue 14/12/22	
689	Driving Dia. 323mm steel Casting (26 nos)	58 days	Wed 15/12/21	Sat 26/2/22	HK Working Day 688	690	100%	Wed 15/12/21	Sat 26/2/22	
690	Cleaning, Insert T50 reinforcement and Grouting	50 days	Sat 26/2/22	Fri 29/4/22	HK Working Day 689	692,691	100%	Sat 26/2/22	Fri 29/4/22	
691	Construction Pile Caps with Pier 2	36 days	Mon 21/3/22	Wed 27/7/22	HK Working Day 690	692	95%	Mon 21/3/22	NA	
692	Remove Timber platform for Piling Works	2 days	Thu 28/7/22	Fri 29/7/22	HK Working Day 690,691	694	0%	NA	NA	
693	Pipelaying on Mini-pile Foundation	66 days	Sat 30/7/22	Tue 18/10/22	HK Working Day		0%	NA	NA	
694	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	
695	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	
696	Pipe Installation / Welding / Testing / Painting	24 days	Sat 20/8/22	Sat 17/9/22	HK Working Day 695	697,701	0%	NA	NA	
697	Concrete Hunching	12 days	Mon 19/9/22	Mon 3/10/22	HK Working Day 696	698	0%	NA	NA	
698	Annly 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	
699	Remove Temporary Working Platform	6 days	Wed 12/10/22	2 Tue 18/10/22	HK Working Day 698	702	0%	NA	NA	
700	Open Tranch Bing Louing at Po Lam Road (Fast Round)	551 days	Thu 8/4/21	Tue 14/2/23	HK Working Day	768	60%	Thu 8/4/21	NA	
701		60 days	Mon 19/9/22	Tue 29/11/22	HK Working Day 696.706	702	0%	NA	NA	
701	Open Cut, CH.HCU+UU - CH.HCU+UB; Connecting to CH.HB	60 days	Wod 20/11/22	Tue 14/2/23	HK Working Day 699 701		0%	NA	NA	
702	Open Cut, CH.HCO+08 - CH.HCO+12	60 days	wed 50/11/22	Tue 14/2/25	HK Working Day 033,701	704 688	100%	Wod 16/6/21	Tuo 19/10/2	21
703	Open Cut, CH.HCO+12 - CH.HCO+97 with SACP	104 days	Wed 16/6/21	Tue 19/10/21	HK Working Day	704,688	100%	wed 10/0/21	100 15/10/2	
704	Open Cut, CH.HC0+97 - CH.HC1+56(Portion B4) with SACP	62 days	Wed 24/11/22	1 Thu 10/2/22	HK Working Day 703,707	705	99%	wea 24/11/21		
705	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	
706	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	
707	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 23/11/2	21
708	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	
709	Water Main Structure and Associated Pipe Support from Po Lam Road to Tsui Lan Road (Location B)(CH HD0+00 ~ CH H WPR+01)	n 771 days	Tue 16/6/20	Thu 19/1/23	HK Working Day	768	82%	Tue 16/6/20	NA	
710	Issue CE No. 62 - Design of Pipe Support in Tsui Lam (Location B)	0 days	Tue 16/6/20	Tue 16/6/20	Calendar Day	711	100%	Tue 16/6/20	Tue 16/6/20	• 16/6
711	Design Submission (CE No. 62) for Water Main Structure and Associated at Tsui L	am 356 days	Wed 17/6/20	Fri 27/8/21	HK Working Day 710	712	100%	Wed 17/6/20	Fri 27/8/21	
712	WSD & GEO Approval	0 days	Tue 21/9/21	Tue 21/9/21	Calendar Day 711	716	100%	Tue 21/9/21	Tue 21/9/21	• 21/9
713	TTA Drawing approval for Tsui Lam Road	0 days	Thu 30/9/21	Thu 30/9/21	HK Working Day	719	100%	Thu 30/9/21	Thu 30/9/21	• 30/9
714	LCSD's Consent	0 days	Tue 5/10/21	Tue 5/10/21	HK Working Day	715FS+18 days	100%	Tue 5/10/21	Tue 5/10/21	* 5/10
715	Approval of Excavation Permit for Tsui Lam Road	0 days	Mon 1/11/21	Mon 1/11/21	HK Working Day 714FS+18 days		100%	Mon 1/11/21	Mon 1/11/2	¢ 1/11
Working Pro	pgramme No. 15 Task Summary Project Summary Project Summary	Inac	tive Milestone	Du	ration-only Start-only start-only unual Summary Rollup		External Milestor Deadline	ne 🧇	Critica Progre	res
Data Date :	Milestone Inactive Task	Mar	uual Task	Ma	anual Summary External Tasks	Page 17	Critical		Manua	ud Progress

						Project: Mainlaying in Tseung l	Kwan O											
Task Name	Duration	Start	Finish	Task Calendar F	Predecessors	Successors	% Complete	Actual Start	Actual Finish	201	.8		2019			2020		
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 7	712	721	100%	Fri 27/8/21	Mon 22/11/21	Q4 Q1	Q2	Q3 Q4	Q1	Q2 Q3	<u>3 Q4</u>	<u>QI Q</u>	<u>)2 Q3</u>	Q
Tree survey, TPRP Submission and Receiving TPRP approval (HyD)	322 days	Fri 21/8/20	Mon 20/9/21	HK Working Day		718	100%	Fri 21/8/20	Mon 20/9/21								-	
Mobilization, Tree Removal Works & Site Clearance	69 days	Mon 20/9/21	Sat 11/12/21	HK Working Day 7	717	719	100%	Mon 20/9/21	Sat 11/12/21								_	-
Obtain RA for TTA implement	38 days	Sun 7/11/21	Tue 14/12/21	Calendar Day 7	713,718	721	100%	Sun 7/11/21	Tue 14/12/21									
Mini-pile Foundation Works	258 days	Wed 15/12/21	Mon 31/10/22	HK Working Day		In the second	39%	Wed 15/12/21	NA									-
Erect Temporary Timber Platform for Piling Works	25 days	Wed 15/12/21	Sat 15/1/22	HK Working Day 7	719,716	722	100%	Wed 15/12/21	Sat 15/1/22								-	
Pre-drilling works & confirmation of rock head and depth of mini-pile	36 days	Wed 26/1/22	Fri 11/3/22	HK Working Day 7	721	723	100%	Wed 26/1/22	Fri 11/3/22									
Mobilization and Driving Dia. 273mm steel Casting (18 nos)	51 days	Sat 26/3/22	Tue 31/5/22	HK Working Day 7	722	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	723	725	0%	NA	NA									
Setup and Loading Test of Mini-Pile	36 days	Thu 23/6/22	Thu 4/8/22	HK Working Day	724	726	0%	NA	NA									-
Construction Pile Caps (PC-C, PC-P1, PC-P2, PC-P3 & PC-T) and Piers (P1, P2 & P2	8) 72 days	Fri 5/8/22	Mon 31/10/22	HK Working Day	725	728	0%	NA	NA								-	-
Pipelaying on Mini-pile Foundation	66 days	Tue 1/11/22	Thu 19/1/23	HK Working Day			0%	NA	NA									-
Temporary Working Platform for Pipe Installation	6 days	Tue 1/11/22	Mon 7/11/22	HK Working Day	726	729	0%	NA	NA									
Cut Temporary casting and Bend the T50 to designated position	12 days	Tue 8/11/22	Mon 21/11/22	HK Working Day	728	730	0%	NA	NA				+					-
Pipe Installation / Welding / Testing / Painting (~115m)	24 days	Tue 22/11/22	Mon 19/12/22	HK Working Day	737,729	731	0%	NA	NA							i.		-
Concrete Hunching	12 days	Tue 20/12/22	Thu 5/1/23	HK Working Day	730	732	0%	NA	NA									
Apply top coating of aliphatic polyurethane on site	6 days	Fri 6/1/23	Thu 12/1/23	HK Working Day	731	733	0%	NA	NA								_	-
Remove Temporary Working Platform	6 days	Fri 13/1/23	Thu 19/1/23	HK Working Day	732	740	0%	NA	NA									
From Tsui Lam Road to TKO Freshwater PSR (CH.HE.0+00 ~ CH.HE2+11) &	1649 days	Tue 7/11/17	Mon 5/6/23	HK Working Day		768	81%	Tue 7/11/17	NA				+	_		-		
(CH.HF0+00 CH.HF3+11) Batch No 3 - Temporary Works Design and Preliminary Works	30 days	Fri 19/2/21	Thu 25/3/21	HK Working Day	589		100%	Fri 19/2/21	Thu 25/3/21									
TTA preparation SIG meetings obtain RA	150 days	Mon 3/8/20	Wed 30/12/20	Calendar Day	585		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	589	730,751,755,753	100%	Fri 19/2/21	Sun 31/10/21									
Material producement (Butterfly Values)	244 days	Mon 30/8/21	Sat 30/4/22	Calendar Dav			100%	Mon 30/8/21	Sat 30/4/22									
	108 days	Fri 20/1/23	Mon 5/6/23	HK Working Day			0%	NA	NA									
	A8 days	Fri 20/1/23	Mon 20/3/23	HK Working Day	733	741	0%	NA	NA								_	
	60 days	Tue 21/3/23	Mon 5/6/23	HK Working Day	740		0%	NA	NA	-			-					
	A14 days	Mon 1/3/21	Mon 25/7/22	HK Working Day		769	75%	Mon 1/3/21	NA									
Water Mains CH.HEU+27 - CH.HE2+11	o O days	Eri 14/5/21	Eri 14/5/21	HK Working Day			100%	Fri 14/5/21	Fri 14/5/21						_			
Issue CE No. 114 - Non-explosive agent near TKO Presilvater Preniminary Service Reservoir	0 days	Eri 20/9/21	Eri 20/8/21	HK Working Day			100%	Fri 20/8/21	Fri 20/8/21									
Receiving of Drawing No. 5K40134/525 for Proposed Alternative Alignment at TKOFWSR	CO devis	Mon 25/10/21	Tuo 4/1/22	HK Working Day			100%	Mon 25/10/21	Tup 1/1/22		_			_				
Open Cut, CH.HE0+20 -CH.HE0+27 (Excavation in Kock)	59 days	Wion 25/10/21	The 4/1/22				100%	Mon 1/2/21	Thu 6/1/22						_			
Open Cut, CH.HE0+27 -CH.HE1+98(Excavation in Rock)	254 days	Wion 1/3/21	Thu 6/1/22	HK Working Day		749	100%	Won 1/3/21	Tuo 18/1/22									
Construction of Combined EMF and MBV Chamber at CH.HE1+90	128 days	Mon 16/8/21	Tue 18/1/22	HK WORKING Day	747	748	100%	WON 16/8/21	Tue 16/1/22									
Open Cut CH.1+98 & connecting to the existing DN800 F.W. Main at CH.HE2+1.	1 60 days	wed 19/1/22	Fri 1/4/22	HK WORKING Day	747	749	0%	NA NA	NA NA									
Construction of flowmeter kiosks and GI cable ducts for Combined EMF and Mi Chamber at CH.HE1+90	BV 90 days	Sat 2/4/22	Mon 25/7/22	HK Working Day	748		0%	NA	NA									
Water Mains CH.HF0+00 - CH.HF3+10 (Inlet A)	1343 days	Tue 7/11/17	Tue 24/5/22	HK Working Day		770	82%	Tue 7/11/17	NA									
Open Cut CH.HF0+00 - CH.HF0+19	67 days	Sat 20/11/21	Sat 12/2/22	HK Working Day	737		100%	Sat 20/11/21	Sat 12/2/22									
Open Cut CH.HF0+19 - CH.HF1+30	114 days	Fri 31/12/21	Tue 24/5/22	HK Working Day			100%	Fri 31/12/21	Tue 24/5/22									
Construction of Combined EMF and MBV Chamber at CH.HF1+30	90 days	Sat 22/1/22	Tue 17/5/22	HK Working Day	737		100%	Sat 22/1/22	Tue 17/5/22									
Open Cut CH.HF1+30 - CH.HF1+36	31 days	Sat 22/1/22	Wed 2/3/22	HK Working Day			100%	Sat 22/1/22	Wed 2/3/22									
Exposed Pipe CH.HF1+36 - CH.HF2+85	53 days	Thu 25/11/21	Fri 28/1/22	HK Working Day	737	757	100%	Thu 25/11/21	Fri 28/1/22									
6 Exposed Pipe to the side wall of TKOFWSR	41 days	Thu 24/2/22	Wed 13/4/22	HK Working Day	757		100%	Thu 24/2/22	Wed 13/4/22									
7 Form Opening and Cast-in short pipe at TKOFWSR	9 days	Mon 14/2/22	Wed 23/2/22	HK Working Day	755	756	100%	Mon 14/2/22	Wed 23/2/22									
rking Programme No. 15 a Date : 24 May 2022 Milestone Inactive Task	Inacti I Inacti Manu	ive Milestone ive Summary ral Task	Du Ma Ma	ration-only anual Summary Rollup	Start-only Finish-only External Tasks	C Ext De s Cri Page 18	ernal Milesto adline tical	ae © ♦	Critical S Progress Manual P	ogress								



								Project: Mainlaying in Tseung	Kwan O								
ID	Task Name		Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018		2019 2019		2020	
758	Construction of flowmater king	ks and GI cable ducts for Combined FMF and	90 days	Tue 7/11/17	Mon 26/2/18	HK Working Da	y		0%	NA	NA	Q4 Q1 (Q2 Q3 Q4	Q1 Q2	Q3 Q4	Q1 C	<u>22 Q3 Q4</u>
750	MBV Chamber at CH.HF1+30		50 days				,		4.20%	100/0/00							
759	DN800 - CH.ADN1200 MS Pipe Static Pre Sterilization and Water Sampling	ssure Test, Pipeline Cleaning, CCTV Inspection,	1232 days	Wed 24/3/21	Tue 6/8/24	Calendar Day			13%	wed 24/3/21	INA						
760	Static Pressure Test		1112 days	Wed 24/3/21	Mon 8/4/24	Calendar Day			18%	Wed 24/3/21	NA						
761	DN1200 MS Pipe - Static Pressure To	est From DN900 Valve Chamber at CH.CA4+24 to	49 days	Wed 24/3/21	Tue 11/5/21	Calendar Day	105	772	100%	Wed 24/3/21	Tue 11/5/21						
762	CH.CT.2+65 (Approx. 0.7km) DN1200 MS Pipe - Static Pressure Te	est From DN900 Valve Chamber at CH.CA4+24 to	51 days	Fri 29/9/23	Sat 18/11/23	Calendar Day	121,167,184,213,224	773	0%	NA	NA						
763	DN900 Valve Chamber at Wan Po R	oad (CH.A12+50) (Approx. 1.7km)	42 days	Tue 27/2/24	Mon 8/4/24	Calendar Day	224.251.306	774	0%	NA	NA						
105	(CH.A12+50) to DN900 Valve Cham	per at TKO Landfill Stage Area A (CH.FB1+66)	12 dujs	140 277 27 21		,											
764	(Approx. 1.4km) DN1200 MS Pipe - Static Pressure T	est From DN900 Valve Chamber at TKO Landfill	63 days	Tue 12/9/23	Mon 13/11/23	Calendar Day	372,434	775	0%	NA	NA						
	Stage Area A (CH.FB1+66) to DN90	0 Valve Chamber at CH.FD3+43 (approx. 2.1km)															
765	DN1200 MS Pipe - Static Pressure T	est From DN900 Valve Chamber at CH.FD 3+43 to	42 days	Tue 12/9/23	Mon 23/10/23	Calendar Day	436,479,517,594,434	776	0%	NA	NA						
766	DN900 Valve Chamber at Mau Wu DN1200 MS Pipe - Static Pressure T	Гsai (CH.HA0+44) (approx. 1.4km) est From Pit Y (CH>GSKR.20 to CH.HA3+70)	11 days	Tue 19/4/22	Fri 29/4/22	Calendar Day			100%	Tue 19/4/22	Fri 29/4/22						
767	DN1200 MC Rine Static Procesure T	ort From DNB00 Valve Chamber at Mau Wu Tsai	30 days	Fri 1/4/22	Sat 30/4/22	Calendar Day	628,623,658	777	0%	NA	NA						
	(CH.HA0+44) to DN900 Valve at Ma	u Wu Tsai (CH.HA6+45) (approx. 0.7km)	50 days		54(50) 1/22	e la la e		770								_	
768	DN1200 MS Pipe - Static Pressure T (CH.HA6+45) to DN800 EMF & BV C	est From DN900 Valve at Mau Wu Tsai hamber at TKO F.W.S.R.(CH.HE1+90) &	33 days	Tue 6/6/23	Sat 8/7/23	Calendar Day	658,667,700,709,734	778	0%	NA	NA						
769	(CH.HF1+30) (Approx. 1.1km)	st From DNR00 EME & BV Chamber at TKO	6 days	Tue 26/7/22	Sun 31/7/22	Calendar Day	742	779	0%	NA	NA						
107	F.W.S.R.(CH.HE1+90) to CH.HE2+11	(approx. 20m)	0 days	140 2011/22	5411 51/1/22	edicinaal bay											
770	DN800 MS Pipe - Static Pressure Te F.W.S.R.(CH.HF1+30) to CH.HF3+10	st From DN800 EMF & BV Chamber at TKO (Approc. 80m)	6 days	Wed 25/5/22	Mon 30/5/22	Calendar Day	750	780	0%	NA	NA						
771	Pipeline Cleaning and CCTV Inspectio	n	1153 days	Wed 12/5/21	Sun 7/7/24	Calendar Day			10%	Wed 12/5/21	NA						
772	DN1200 MS Pipe - Pipeline Cleaning	g and CCTV Inspection From DN900 Valve Chambe	er 60 days	Wed 12/5/21	Sat 10/7/21	Calendar Day	761	782	100%	Wed 12/5/21	Sat 10/7/21						
773	at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning	and CCTV Inspection From DN900 Valve Chambe	er 90 days	Sun 19/11/23	Fri 16/2/24	Calendar Day	762	782	0%	NA	NA						
774	at CH.CA4+24 to DN900 Valve Char	nber at Wan Po Road (CH.A12+50)	, oo days	Tuo 9/4/24	Sup 7/7/24	Calendar Day	763	782	0%	NA	NA			-			
//4	DN1200 MS Pipe - Pipeline Cleanin at Wan Po Road (CH.A12+50) to DN	g and CCTV Inspection From DN900 valve Chambe 1900 Valve Chamber at TKO Landfill Stage I Area A	er 90 days	Tue 9/4/24	Sull ////24	Calendar Day	705	762	078	na Na	10						
775	DN1200 MS Pipe - Pipeline Cleanin at TKO Landfill Stage L Area A (CH.F	g and CCTV Inspection From DN900 Valve Chambe B1+66) to DN900 Valve Chamber at CH.FD3+43	er 90 days	Tue 14/11/23	Sun 11/2/24	Calendar Day	764	782	0%	NA	NA						
776	DN1200 MS Pipe - Pipeline Cleanin	g and CCTV From DN900 Valve Chamber at CH.FD	90 days	Tue 24/10/23	Sun 21/1/24	Calendar Day	765	782	0%	NA	NA						
777	3+43 to DN900 Valve Chamber at N DN1200 MS Pipe - Pipeline Cleanin	g and CCTV Inspection From From DN900 Valve	60 days	Sun 1/5/22	Wed 29/6/22	Calendar Day	767	782	0%	NA	NA						
778	Chamber at Mau Wu Tsai (CH.HAO	+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) and CCTV Inspection From DN900 Valve at Mau	60 days	Sun 9/7/23	Wed 6/9/23	Calendar Day	768	782	0%	NA	NA					_	
770	Wu Tsai (CH.HA6+45) to DN800 EM	IF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) &	19 days	Mon 1/9/22	Thu 19/9/22	Calendar Day	769	780	0%	NA	NA						
119	DN800 MS Pipe - Pipeline Cleaning Chamber at TKO F.W.S.R.(CH.HE1+	and CCTV Inspection From Division ENF & BV 90) to CH.HE2+11	10 0495	1011 1/ 6/ 22	110 10/0/22	Calendar Day	705	762	070	115	115						
780	DN800 MS Pipe - Pipeline Cleaning Chamber at TKO E W.S.R. (CH. HE1+	and CCTV Inspection From DN800 EMF & BV 30) to CH.HF3+10	18 days	Tue 31/5/22	Fri 17/6/22	Calendar Day	770	782	0%	NA	NA						
781	Sterilization and Water Sampling		30 days	Mon 8/7/24	Tue 6/8/24	Calendar Day			0%	NA	NA						
782	DN1200 MS Pipe - Portion I & Port	ion 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						
783	NS250 HDPE Pine Static Pressure, Pipel	ine Cleaning, CCTV Inspection, Sterilization and	60 days	Fri 23/12/22	Mon 20/2/23	Calendar Day			0%	NA	NA						
704	Water Sampling		20 days	Cri 22/12/22	Sat 21/1/22	Calondar Day	121	785	0%	NA	NA		_			_	
/84	NS250 HDPE Pipe - Static Pressure Te	st - Portion H (Area 137)	30 days	FI1 23/12/22	38(21/1/23	Calendar Day	121	785	070	100			_				
785	NS250 HDPE Pipe - Pipeline Cleaning Sampling - Portion H (Area 137)	and CCTV Inspection, Sterilization and Water	30 days	Sun 22/1/23	Mon 20/2/23	Calendar Day	784	788	0%	NA	NA						
786	Handover Portion I and Portion H to W	SD Region	563 days	Tue 21/2/23	Thu 5/9/24	Calendar Day			0%	NA	NA						
787	7 DN1200 MS Pipe - Portion I & Portion	n H (Area 137)	30 days	Wed 7/8/24	Thu 5/9/24	Calendar Day	782		0%	NA	NA						
788	8 NS250 HDPF Pipe - Portion H (Area 1	37)	7 days	Tue 21/2/23	Mon 27/2/23	Calendar Day	785	164	0%	NA	NA						
700			AA5 days	Tup 7/11/17	Sat 11/5/19	HK Working D	av		99%	Tue 7/11/17	NA						
/6:	137 (Portion J)	nation Plant at Fill Bank of Tseuing Kwall O Area	445 0895	Tue //11/1/	5411/5/15	The Horking D	"		5510	140 1/ 14/ 11				16/11			
790	0 Issue of CE No. 02		0 days	Fri 16/11/18	Fri 16/11/18	HK Working D	ау	791	100%	Fri 16/11/18	Fri 16/11/18		*	10/11			
79	1 Procurement of Major Material		48 days	Sat 17/11/18	Thu 3/1/19	Calendar Day	790	792	100%	Sat 17/11/18	Thu 3/1/19						
79	2 Installation of NS250 HDPE Pipe from	A to B in accordance with the Drawing No.	89 days	Fri 4/1/19	Thu 25/4/19	HK Working D	ay 791	793	100%	Fri 4/1/19	Thu 25/4/19						
79	13/WSD/16/SK13 to SK15 and W202 Storilization and Eluching NS250 HDE	03/4A 25 Pine (From T0+00 to T23+64)	4 days	Wed 24/4/19	Sun 28/4/19	HK Working D	av 792	794	100%	Wed 24/4/19	Sun 28/4/19			1			
13			1	Ma- 20/4/40	Mo- 20/4/12		ov 792	705	100%	Mor 20/4/10	Mon 20/4/10						
79	4 Take Water Sampling		тдау	won 29/4/19	IVION 29/4/19	HK WORKING D	dy 195	/35	100%	191011 29/4/19	191011 29/4/19						
79	5 Backfill at T23+64 after completion of	of Water Sampling Test	1 day	Sat 11/5/19	Sat 11/5/19	HK Working D	ay 794	796FF	100%	Sat 11/5/19	Sat 11/5/19						
79	796 Handover Portion J to WSD Region		0 days	Sat 11/5/19	Sat 11/5/19	HK Working D	ay 795FF		100%	Sat 11/5/19	Sat 11/5/19			\$	11/5		
79	7		1 day	Tue 7/11/17	Tue 7/11/17	None			0%	NA	NA						
		.6								1							
											i gi kana wa a						
Wo	orking Programme No. 15	Summary Project Summary	Inacti	ive Milestone	Du	aration-only anual Summary Rollup	Start-only Finish-only	E Er	tternal Milesto eadline	ne 🔶	Critical S Progress	plit					
Da	ta Date : 24 May 2022 Milestone	Inactive Task	Manu	ial Task	Ma	anual Summary	External Task:	s Cr	itical		Manual H	rogress		-			

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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



Member of the Aurecon Group



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



Member of the Aurecon Group



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











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





THEY'R.

CHOON

CH.CZ

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

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







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	Implementation	Implementation nentation Stage		ation Implementation		Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	C	0	status	Guidelines
Air Quality								
S4.8.1	Impervious dust screen or sheeting will be provided to enclose scaffolding from the ground floor level of building for construction of superstructure of the new buildings.	Land site/ During Construction	Contractor(s)		√		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	Decommonded Environmental Distoction Maccured	Objectives of the	Implomentation	Implementation		tion		Relevant Logislation &	
Reference	Mitigation Measures	recommended measures & main concerns to address	Agent	D	C	0	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)		~		Implemented		
\$4.8.1	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)		V	~	Implemented	Environment, Transport and Works Bureau Technical Circular (ETWB- TC(W)) No 19/2005 on Environmental Management on Construction Sites	
\$4.8.1	The engine of the construction equipment during idling will be switched off.	Land site/ During construction	Contractor(s)		1		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	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Implementation Stage			Implementation	Relevant Legislation &	
Reference	Mitigation Measures	main concerns to address	Agent	D	С	0	status	Guidelines	
S4.10	To ensure proper implementation of the recommended dust mitigation measures and good construction site practices during the construction phase, environmental site audits on weekly basis is recommended throughout the construction period.	Land site/ During construction	Contractor(s)/ (ET & IEC)		~		Implemented	-	

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



EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Impl	ementa Stage	tion	Implementation	Relevant Legislation &	
Kelerence	Mitigation Measures	main concerns to address	Agent	D	C	0	status	Guidennes	
Noise	1	1			1 .				
\$5.7	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)		-		N/A		
\$5.7	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		
\$5.7	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)		1		Implemented		
\$5.7	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		
\$5.7	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		
\$5.7	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	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Impl	ementa Stage	tion	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	C	0	status	Guidelines
\$5.7	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	-
\$5.9	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	-
\$5.9	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	_
\$5.10	A noise monitoring programme shall be implemented for the construction phase.	During construction phase	ET		1		Implemented	-
\$5.10	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	-

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



EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Impl	lementa Stage	tion	Implementation	Relevant Legislation &
Kelefence	Witigation Measures	main concerns to address	Agent	D	С	0	status	Guiueinies
Water Qua	lity						•	
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)		-		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	_

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EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Impl	ementa Stage	tion	Implementation	Relevant Legislation &
Kelefence	Wiligation Weasures	main concerns to address	Agent	D	С	0	status	Guidennes
S6.9	Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the construction workers over the construction site to prevent direct disposal of sewage into the water environment.	Land site & drainage/ During construction	Contractor(s)		•		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	
\$6.9	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 after reminder	-
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 after observation	-

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



EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	lementa Stage	ntion	Implementation Status	Relevant Legislation &
Kerer ence		main concerns to address	Agent	D	С	0	Status	Guidennes
Waste Man	agement	F	1	1		1		
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.
\$8.5	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 " <i>ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites</i> " 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

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EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	lementa Stage	ation	Implementation	Relevant Legislation &
Reference	Witigation Measures	main concerns to address	Agent	D	С	0	Status	Guidennes
\$8.5	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.	Land site/ During construction	Contractor(s)		~		Implemented	Waste Disposal Ordinance (Cap 354)
\$8.5	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
\$8.5	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
\$8.5	Any unused chemicals and those with remaining functional capacity will be recycled as far as possible.	Land site/ During construction	Contractor(s)		~		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
\$8.5	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)		~		Implemented	DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials
\$8.5	Proper storage and site practices to reduce the potential for damage or contamination of construction materials.	All areas/ During construction	Contractor(s)		~		Implemented after observation	-
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)		√		Implemented	ETWB TC(W) No. 34/2002 and Dumping at Sea Ordinance (DASO)



EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	lementa Stage	ation	Implementation	Relevant Legislation &
Reference	Witigation Measures	main concerns to address	Agent	D	С	0	Status	Guidelines
88.5	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
\$8.5	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
\$8.5	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)		~		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	lementa Stage	ation	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	С	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		1	•	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		1	~	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 after reminder	
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 &
Kelerence	Willigation Measures	main concerns to address	Agent	D	С	0	Status	Guidennes
\$8.5	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	-
\$8.5	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	-
\$8.5	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)		1		Implemented	-
\$8.5	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	-

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

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



EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	lementa Stage	ation	Implementation	Relevant Legislation &
Reference	Miligation Measures	main concerns to address	Agent	D	С	0	Status	Guidelines
Ecology								
\$9.7	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	-
\$9.7	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	-

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



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation	Im	plement Stage	tation	Implementation Status	Relevant Legislation &
Kelerence	minigation measures	main concerns to address	Agent	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)	4	•	•	Implemented	-
\$11.10 & 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 reminder	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

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



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation	Im	plement Stage	tation	Implementation Status	Relevant Legislation & Guidelines
		main concerns to address	igent	D	С	0	Status	Guidelines
Landfill Ga	is Hazard						•	
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	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	All area/ Detailed design/ During construction/ During operation	Contractor(s)	•			Implemented	

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



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	of methane. carbon dioxide and oxygen.			<u> </u>		<u> </u>	
S12.7	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	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
\$12.7	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
\$12.7	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 along the fresh water mains. Each manhole/ utility pit should be monitored with two measurements (at mid depth and base). Each measurement should be monitored for a minimum of 10 minutes. A steady reading and peak reading should be recorded at each manhole/ utility pit	All area/ Detailed design/ During construction/ During operation	Contractor(s)	~	•	-	Implemented



	and for each measurement. The need for venting the manhole/ utility pit and further monitoring will be reviewed after the initial monitoring.						
\$12.7	All construction, operation and maintenance personnel working on-site as well as visitors should be made aware of the hazards of landfill gas and its possible presence on-site. This should be achieved through a combination of posting warning signs in prominent places and also by access to detailed information on landfill gas hazards and the designs and procedural means by which these hazards are being minimized on-site.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	~	~	~	Implemented





Impact Monitoring Schedule of the Reporting Month

Contract No. 13/WSD/16 Mainlaying in Tseung Kwon O Environmental Monitoring Schedule (December 2022)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 Impact Noise Monitoring	2	3
4	5	6	7 Impact Noise Monitoring	8	9	10
11	12	13 Impact Noise Monitoring	14	15	16	17
18	19 Impact Noise Monitoring	20	21	22	23	24
25	26	27	28	29	30 Impact Noise Monitoring	31

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





Noise Monitoring Equipment Calibration Certificate

Certificate of Calibration

for

Description:	Sound Level Meter
Manufacturer:	SVANTEK
Type No.:	971 (Serial No.: 96062)
Microphone:	ACO 7052 E (Serial No.:79778)
Preamplifier:	SVANTEK SV 18 (Serial No.:97276)

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 (31.5 Hz to 4k Hz)□ 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: 21 June 2022

Date of calibration: 27 June 2022

Date of NEXT calibration: 26 June 2023

Calibrated by: Calibration Technician

Date of issue: 27 June 2022

Certificate No.: APJ22-029-CC002

0 Certified by:

Mr. Tang Cheuk Hang Quality Manager



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Ro	om 422, Leader Industrial Centre, 57-59 Au Pui Wan Street	,Fo Tan, Shatin,N.T.,Hong Kong
	Tel: (852) 2668 3423	Fax:(852)26686946
	Homepage: http://www.aa-lab.com	E-mail: inquiry@aa-lab.com

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.

1. Calibration Conditions:

Air Temperature:	24.2 °C
Air Pressure:	1004 hPa
Relative Humidity:	60.8 %

2. Calibration Equipment:

	Туре	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV200041	HOKLAS

3. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Sett	ing of Un	it-under-te	est (UUT)	Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
25-124.5	dBA	SPL	Fast	94	1000	94.0	±0.4

Linearity

Sett	ing of Uı	nit-under-t	est (UUT)	App	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.0	Ref
25-124.5	dBA	SPL	Fast	104	1000	104.0	±0.3
				114		114.0	±0.3

Time Weighting

Setting of Unit-under-test (UUT)				Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
25 124 5	dD A	SDI	Fast	04	1000	94.0	Ref
25-124.5	UDA	IBA SPL	Slow	94	1000	94.0	±0.3

Certificate No.: APJ22-029-CC002

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Frequency Response

Linear Response

Sett	ing of Unit	t-under-t	est (UUT)	Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting		Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.3	±2.0
				94	63	94.2	±1.5
		dB SPL	Fast		125	94.1	±1.5
25 124 5	db				250	94.1	±1.4
25-124.5	uВ				500	94.0	±1.4
					1000	94.0	Ref
					2000	93.7	±1.6
					4000	93.1	±1.6

A-weighting

Sett	ing of Un	it-under-t	est (UUT)	Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting		Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	54.9	-39.4 ±2.0
			Fast	94	63	68.0	-26.2±1.5
					125	78.0	-16.1±1.5
25 124 5	dBA				250	85.4	-8.6±1.4
25-124.5	UDA 2	SFL			500	90.8	-3.2 ± 1.4
					1000	94.0	Ref
					2000	94.9	$+1.2 \pm 1.6$
					4000	94.2	$+1.0 \pm 1.6$

C-weighting

Setting of Unit-under-test (UUT)				Appl	ied value	UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. Weighting		Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB	
				31.5	91.3	-3.0 ±2.0		
			Fast	94	63	93.4	-0.8±1.5	
					125	93.9	-0.2±1.5	
25 124 5	dDC	CDI			250	94.1	-0.0 ± 1.4	
25-124.5	UBC	SFL			500	94.1	-0.0 ± 1.4	
					1000	94.0	Ref	
					2000	93.6	-0.2 ±1.6	
					4000	92.4	-0.8±1.6	

Certificate No.: APJ22-029-CC002



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(A+A)*L Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

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	\pm 0.05
	125 Hz	± 0.05
	250 Hz	\pm 0.05
	500 Hz	\pm 0.05
	1000 Hz	± 0.05
	2000 Hz	\pm 0.05
	4000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
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.



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Certificate No.: APJ22-029-CC002

Certificate No. D224269E



CALIBRATION CERTIFICATE

Product	:	SOUND CALIBRATOR
Туре	:	NC-75
Serial number	:	34524163
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 23.4 °C, Relative humidity 48 %,
		Static pressure 100.9 kPa
Calibration date	:	09/05/2022 (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 : 12/05/2022 (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. D224269E

CALIBRATION RESULT

1. Sound pressure level (with reference standard microphone)

Measured	Expanded
value	uncertainty *1
93.98 dB	0.09 dB
Specified secondary s	standard microphone:
Type :4	160

Serial number ÷ 2973341

Reference Sound pressure : $2 \times 10^{.5}$ 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	(k=2)
$1000.0 \ \mathrm{Hz}$	$3.9 imes 10^{\cdot 4}$ Hz

Working measurement standard universal counter: Type : 53132A Serial number : MY40005574 (JCSS Calibration Certificate No. 21081499079575510)

2. Total distortion

Working measurement standard distortion meter: Type : VA-2230A Serial number : 11076061 (A2LA Calibration Certificate No. 1501-03080)

- closing -







Certificate of Conformity

This instrument was produced under rigorous factory production control and documented standard procedures. It was individually inspected and leak tested and the functioning of the display, backlight, buttons and firmware was verified. The accuracy of each of its primary measurements was individually calibrated and/or validated against standards traceable to the National Institute of Standards and Technology ("NIST") or other calibrated standards in accordance with the documented standard test methods detailed below. This instrument is warrantied to perform in compliance with the published specifications for the specific measurements and features of its model number including specified typical drift since its date of manufacture. *(See Kestrel Limited Warranty for full warranty terms.)*

Standards Used in Testing Wind Speed:

The Kestrel Weather & Environmental Meter impeller installed in this unit was individually tested in a subsonic wind tunnel operating at approximately 300 fpm (1.5 m/s) and 1200 fpm (6.1 m/s) monitored by a Gill Instruments Model 1350 ultrasonic time-offlight anemometer. The Gill 1350 is calibrated regularly and is traceable to NIST with a maximum combined uncertainty of $\pm 1.04\%$ within the airspeed range 711.4 to 3930 fpm (3.61 to 19.96 m/s), and $\pm 1.66\%$ within the airspeed range 170 to 711.4 fpm (0.86 to 3.61 m/s).

Temperature:

Temperature response is verified in comparison with an Ametek DTI-050 Digital Temperature Indicator and STS Reference Sensor. The DTI-050 is calibrated annually and is traceable to NIST with a maximum relative expanded uncertainty of ± 0.04 C.

Relative Humidity:

Relative humidity is verified in comparison with an Edgetech HT120 Humidity Transmitter. The HT120 is calibrated annually and is traceable to NIST with a maximum relative expanded uncertainty of $\pm 1.0\%$ RH.

Barometric Pressure:

Pressure response is verified against a Vaisala PTB210A Digital Barometer. The Vaisala Barometer is calibrated annually and is traceable to NIST with a maximum relative expanded uncertainty of \pm 0.3hPa.

Approved By:

Michael Naughton Chief Product Officer, Nielsen-Kellerman

Product Specifications for Kestrel Weather Meters, Model Numbers 1000-3500

			SENSORS	
SENSOR	ACCURACY	RESOLUTION	SPECIFICATION	NOTES
	(+/-)		RANGE	
Wind Speed Air Speed	Larger of 3% of reading, least significant digit or 20 ft/min	0.1 m/s 1 ft/min 0.1 km/h 0.1 mph 0.1 knots 1 B	0.6 to 40.0 m/s 118 to 7,874 f/min 2.2 to 144.0 km/h 1.3 to 89.5 mph 1.2 to 77.8 knots 0 to 12 B	1 inch 25 mm diameter impeller with precision axle and low-friction Zytel® bearings. Startup speed stated as lower limit, readings may be taken down to 0.4 m/s 79 ft min 1.5 km/h .9 mph .8 kt after impeller startup. Off-axis accuracy 1% @ 5° off axis; -2% @ 10°; -3% @ 15°. Calibration drift < 1% after 100 hours use at 16 MPH 7 m/s. Replacement impeller (NK PN-0801) field installs without tools (US Patent 5,783,753). Wind speed calibration and testing should be done with triangle on impeller located at the top front face of the Kestrel. Measuring wind speeds above 60 m/s / 134.2 mph can damage the impeller.
Ambient Temperature	0.9 °F 0.5 °C	0.1 °F 0.1 °C	-20.0 to 158.0 °F -29.0 to 70.0 °C	Airflow of 2.2 mph 1 m/s or greater provides fastest response and reduction of insolation effect. For greatest accuracy, avoid direct sunlight on the temperature sensor and prolonged sunlight exposure to the unit in low airflow conditions. Calibration drift is negligible for the life of the product. For further details, see Display & Battery Operational Temperature Limits.
Relative Humidity	3%RH	0.1 %RH	5 to 95% 25°C non-condensing	To achieve stated accuracy, unit must be permitted to equilibrate to external temperature when exposed to large, rapid temperature changes and be kept out of direct sunlight. Calibration drift is typically less than ±0.25% per year.
Pressure	1.5 hPa mbar 0.044 inHg 0.022 PSI	0.1 hPa mbar 0.01 inHg 0.01 PSI	25°C/77°F 750-1100 hPa mbar 22.15-32.48 inHg 10.88-15.95 PSI	Monolithic silicon piezo-resistive pressure sensor with second-order temperature correction. Between 1100–1600 mbar, unit will operate with reduced accuracy. Sensor may not operate above 1600 mbar and can be damaged above 6,000 mbar or below 10 mbar. Calibration drift is negligible for the life of the product.

CALCULATED MEASUREMENTS										
MEASUREMENT	ACCURACY (+/-)	RESOLUTION	SENSORS EMPLOYED							
Altitude	typical: 23.6 ft/7.2 m from 750 to 1100 mBar max: 48.2 ft/14.7 m from 300 to 750 mBar	1 ft 1 m	Pressure, User Input (Reference Pressure)							
Barometric Pressure	0.07 inHg 2.4 hPa mbar 0.03 PSI	0.01 inHg 0.1 hPalmbar 0.01 PSI	Pressure, User Input (Reference Altitude)							
Delta T	3.2 °F 1.8 °C	0.1 °F 0.1 °C	Temperature, Relative Humidity, Pressure							
Dew Point	3.4 °F 1.9 °C 15-95% RH. Refer to Range for Temperature Sensor	0.1 °F 0.1 °C	Temperature, Relative Humidity							
Heat Index	7.1°F 4.0°C	0.1 °F 0.1 °C	Temperature, Relative Humidity							
Wet Bulb Temperature - Psychrometric	3.2 °F 1.8 ℃	0.1 °F 0.1 °C	Temperature, Relative Humidity, Pressure							
Wind Chill	1.6 °F 0.9 °C	0.1 °F 0.1 °C	Wind Speed, Temperature							

ADDITIONAL PRODUCT INFO							
Display	Reflective LCD						
Backlight	Standard or dim red (NV models only) backlight. Manual activation with auto-off.						
Response Time & Display Update	Display updates every 1 second. After exposure to large environmental changes, all sensors require an equilibration period to reach stated accuracy. Measurements employing RH may require longer periods particularly after prolonged exposure to very high or very low humidity.						
Auto Shutdown	After 45 minutes with no key presses.						
Clock	Real Time Hour:Minute Display						
Certifications	CE certified, RoHS and WEEE compliant. Individually tested to NIST-traceable standards.						
Origin	Designed and manufactured in the USA from US and imported components. Complies with Regional Value Content and Tariff Code Transformation requirements for NAFTA Preference Criterion B.						
Bluetoothe Data Connect	Wireless range up to 100ft. Employs Kestrel Link protocol for data transmission with Kestrel Link Ballistics App. (iOS/Android)						
Battery	Requires one CR2032 battery, included. Up to 300 hours of use, reduced by backlight or Bluetooth use.						
Shock Resistance	MIL-STD-810g, Transit Shock, Method 516.7 Procedure IV; unit only; impact may damage replaceable impeller.						
Sealing	Waterproof (IP67 and NEMA-6)						
Display & Battery Operational Temperature Limits	14° F to 131° F -10 °C to 55 °C Measurements may be taken beyond the limits of the operational temperature range of the display and batteries by maintaining the unit within the operational range and then exposing it to the more extreme environment for the minimum time necessary to take reading.						
Storage Temperature	-22.0 °F to 140.0 °F -30.0 °C to 60.0 °C.						
Size & Weight	4.8 x 1.9 x 1.1 in 12.2 x 4.8 x 2.8 cm, 3.6 oz 102 g (Including slip-on cover).						

*Note: Accuracy calculated as uncertainty of the measurement derived from statistical analysis considering the combined effects from primary sensor specifications, circuit conversions, and all other sources of error using a coverage factor of k=2, or two standard deviations (2^S)

**Note: For Kestrel 1000, 2000, 2500, 3000, 3500 series these specifications are valid for units with a serial number higher than 2262687. If your product has a lower serial number, please reference the K4000 specifications 329011.





Event / Action Plan for Noise Exceedance



Event and Action Plan for Construction Noise Monitoring

Event	Action										
	ET		IEC		ER		Co	ntractor			
Action Level	1. 2. 3. 4.	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	1. 2. 3.	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	1. 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.			
Limit Level		 Notify IEC, ER, EPD and Contractor 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. Repeat measurement to confirm findings Increase monitoring frequency Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemente inform IEC, ER and EPD the cause & actions taken for the exceedances Assess effectiveness of Contractor's remedial actions and keep IEC, EPD ER informed of the results If exceedance stops, cease additional monitoring. 	d. and	 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 	1. 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	1.1 2.1 3.1 4.1 5.9	Take immediate action to avoid further 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 not under control Stop the relevant portion of works as determined by the ER until the exceedance is abated			



Appendix G

Noise Monitoring Data



Table G 1Summary of Noise Monitoring Result

			L _{eq-5min} , dB(A)						Log-20min	L10-20mine	Loo-20mine	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
01/12/2022	11:00 - 11:30	Cloudy	68.2	68.3	70.2	67.8	68.9	67.0	68.5	71.5	57.6	70.0	Svantek 971
07/12/2022	11:16 - 11:46	Cloudy	67.9	68.4	68.5	69.3	68.7	68.4	68.6	71.2	58.1	70.0	Svantek 971
13/12/2022	10:27 - 10:57	Fine	69.7	68.6	69.4	68.6	67.8	69.1	68.9	71.9	60.7	70.0	Svantek 971
19/12/2022	11:38 - 12:08	Sunny	69.2	69.0	67.4	68.2	67.9	69.0	68.5	72.2	61.7	70.0	Svantek 971
30/12/2022	11:15 - 11:45	Sunny	68.3	67.2	67.7	67.3	66.9	68.5	67.7	72.2	57.9	70.0	Svantek 971

Remarks:

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





Waste Flow Table



Appendix H – Waste Flow Table

	A	ctual Quantitie	es of Inert C&D	Materials Ger	Actual Quantities of Non-C&D Wastes Generated 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 2022	2.342	0.145			2.014	0.328		0.065			0.006
Feb 2022	2.184	0.240			1.855	0.329		0.058			0.001
Mar 2022	1.284	0.028	0.096		1.188	0.860		0.054			0.002
Apr 2022	0.840	0.012	0.188		0.652	0.751		0.055			0.003
May 2022	1.008	0.036	0.528		0.480	0.737		0.057			0.000
Jun 2022	1.710	0.200	0.398		1.312	0.639		0.056			0.007
Sub-total	9.368	0.661	1.210		7.501	3.644		0.345			0.019
Jul 2022	1.750	0.116	0.617		1.133	0.064		0.055			0.006
Aug 2022	1.660	0.032	0.808		0.852	1.774		0.054			0.002
Sep 2022	1.886	0.020	0.592		1.294	0.847		0.056			0.004
Oct 2022	1.993	0.058	0.341		1.652	0.240		0.053			0.004
Nov 2022	1.496	0.089	0.233		1.263	0.820		0.057			0.008
Dec 2022	0.874	0.018	0.266		0.608	2.286		0.051			0.002
Total	19.027	0.994	4.067		14.303	9.675		0.671			0.045

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.





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 (QRAE III) --- LEL/O2/CO/H2S

UNIT INFORMATION :

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)	<u>O2 sensor</u>	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				
<u>Status:</u> Pump Speed Clock	Low Yes	Back Light Measure	Manual Average					
LEL Calibration Gas	Methane	LEL measurement Gas	Methane					
LEL Custom Gas	LEL_custom_gas	LEL Custom Factor	1.0					
Gas types used : 4-Ga	as witx: (16% O2, 50ppm C	50, 10ppm H2S, 50% LE	L CH4, BAL N2)	Gas lot #WO350201-3				
*** Fresh Air Calibrat	tion is highly recommended	to proceed prior for mea	surement 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



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 J

EQUIPMENT TO BE VERIFIED

Equipment Name	: CO2 Analyzer
Supplier	: TES
Model No.	: 1307H
Serial No.	: 200901259
Date of Verification	: 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

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

Ms. Ning Lee / Service Coordinator

Checked by

Mr. Hei Kong / Technical Engineer

	Calil	oration Ce	rtificate				
Cert	Date: 2022 09	02					
Customer: Renopine Construction	Burchase Order No : SME-C-20-21-6/2020-76554						
九龍觀塘海濱道133							
	Date 2020 07	07 INVOIC	E NO: AP				
	Email: damonhuang@r	enopipe.com.h	nk				
Attn: Damon Huang	Tel: 3998 3	3193	Fax: 3998 3225	Мо	bile Phone		
User Details:							
Gas Detector Model: XT-XWH Calibration Record:	HM-Y-OR Seri	al No.: MA220-012	709 Pump	S/N: 420373	3		
Inpectio	n before calibration	l	Visual insp	ection	Func	tional Test	
Basic Unit - Case, Clip & Dis	play etc.		OK			OK	
Battery and charge etc.			OK			ОК	
Motorized Pump			OK			OK	
Other items							
Type of Sensor			Expiry D	ate			
Oxygen Sensor							
CO & H2S Sensor							
Combustible(LEL) Sensor							
Type of calibration	Date of calibration	H2S (ppm)	CO (ppm)	CO (ppm) O2 (%)		LEL (%)	
3rd Calibration	2022 09 02	25	100	18		50	
Result of Calib	oration	OK	ОК	ОК		ОК	
Calibration Cost: (As per a	ttached invoice)	F.O.C	1				
Calibration remarks: Oxygen s Warranty	ensor replaced by new on : Oxygen Sensor 1 years v	e warranty					
Next calibration date of	of this instrumer	nt will be : 2	023 09	02			
USERS MUST READ THE AND FOLLOW THEIR OV	IMPORTANT N OPERATOR'S MA VN SAFETY SUPE	OTES TO BW (NUAL THOROU RVISOR'S INSTR	GAS DETECTOI GHLY BEFORE OI UCTION TO WOR	R USERS PERATING K.	THIS EQ	UIPMENT	
All gas detection instrument as accurate as the test gas us I.S.T. Standards.	ation on the market sed. BW Technologi	requires periodic o es quality test gase	alibration to accura as are made to the hi	tely measure ghest accura	e gas. Cali acy and tra	bration is only ice-ability to N.	
Calibrated By:	Sara Tse	Service	Hotline: 2592 2120) Ms. Tse -	Service	Dept.	
Asia Pacific I Unit B, 1/F Kwi Te	Asia Pacific Industrial Safety Equipment Unit B, 1/F., Hing Yip Centre, 31 Hing Yip Street, Kwun Tong, Kowloon, Hong Kong Tel:2592 2100 Fax: 3165 8960						





Landfill Gas Monitoring Data

Landfill Gas Monitoring –Field Measurement Recording Sheet

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28/7/2022
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)	Remark
Pit A	1/12/22	8.20	rain	0	0	0	20.9	17/999	9
	1/12/22	11:25	ian	0	0	0	20.9	20/999	9
		3: 13		0	0	0	20.9	18/999	9
							-		

Name & Designation

<u>Signature</u>

Date

Field Operator:

Cheung Hoi Kit



1/12/22

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT
Name of site: 13/WSD/16-Mainlaying in Tseung Kwan Date of measurement:

• • • • • • • • • • • • • • • • • • • •
/2022
1/2022

Sample location	Date of measurement	Sampling time			:				
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	Remark
Pit Δ	2/12/22	8.20	rain	0	0	0	20.9	17/999	9
		11:25		0	0	0	20.9	20/999	9
		3:13		0	0	0	20.9	18/999	9
								-	
							-		

Name & Designation

Signature

Date

Field Operator:

Cheung Hoi Kit



2/12/22

Laboratory Staff:

Checked by:

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28/7/2022
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)	Remark
								47/000	
Pit A	3/12/22	8:20	rain	0	0	0	20.9	17/999	9
		11:25		0	0	0	20.9	20/999	9
		3.13		0	0	0	20.9	18/999	9
		1	-						

Name & Designation

Signature

Date

Field Operator:

Cheung Hoi Kit



3/12/22

Laboratory Staff:

Checked by:

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

28/7/2022
17/11/2022
1

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	Remark
	5/12/22	8.20	sunny	0	0	0	20.9	17/999	9
	3/12/22	11:25		0	0	0	20.9	20/999	9
		3:13		0	0	0	20.9	18/999	9
							1		

Name & Designation

tion <u>Signature</u>

Date

Field Operator:

Cheung Hoi Kit



5/12/22

Laboratory Staff:

Checked by:

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

calibrated	ed: Date	Sampling equipment used:
2022) 28/7	PGM-2500 (QRAE III)
/2022	17/1	1307H
-	1//1	130/H

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	Remark	
	6/12/22	8.20	sunnv	0	0	0	20.9	17/999	9	
	0/12/22	11.25	54111)	0	0	0	20.9	20/999	9	
		3.13		0	0	0	20.9	18/999	9	
		0.10								

Name & Designation

Signature

Date

Field Operator:

Cheung Hoi Kit



6/12/22

Laboratory Staff:

Checked by:

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

PGM-2500 (QRAE III)	28/7/2022
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)	Remark
Pit A	7/12/22	8:20	sunny	0	0	0	20.9	17/999	9
		11:25		0	0	0	20.9	20/999	9
		3: 13		0	0	0	20.9	18/999	9

Name & Designation

Signature

Date

Field Operator:

Cheung Hoi Kit

40

7/12/22

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

ENVIRONMENTAL PROTECTION DEPARTMENT

13

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28/7/2022
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)	Remark
								10/000	
Pit A	8/12/22	8:20	sunny	0	0	0	20.9	13/999	9
		11:25		0	0	0	20.9	15/999	9
		3.13		0	0	0	20.9	14/999	9
						A A A A A A A A A A A A A A A A A A A			
				11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					

Name & Designation

Signature

Date

Field Operator:

Cheung Hoi Kit



8/12/22

Laboratory Staff:

Checked by:

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28/7/2022
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)	Remark
Pit A	9/12/22	8:20	rain	0	0	0	20.9	13/999	9
		11:25		0	0	0	20.9	15/999	9
		3:13		0	0	0	20.9	14/999	9
									and the second
	-								
								1	

Name & Designation

<u>Signature</u>

<u>Date</u>

Field Operator:

Cheung Hoi Kit





Laboratory Staff:

Checked by:

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

Sampling equipment used.	Dates calibrated
PGM-2500 (QRAE III)	28/7/2022
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)	Remark
Pit A	10/12/22	8:20	sunny	0	0	0	20.9	13/999	9
		11:25		0	0	0	20.9	15/999	9
		3:13		0	0	0	20.9	14/999	9
			1						

Name & Designation

Signature

<u>Date</u>

Field Operator:

Cheung Hoi Kit



10/12/22

Laboratory Staff:

Checked by:

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

calibrated	quipment used:	Sampling equipme
2022	00 (QRAE III)	PGM-2500 (QI
/2022		1307H
		130/H

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide (%)	Oxygen (%)	Temp (°C)	Remark
Pit A	12/12/22	8:20	sunny	0	0	0	20.9	13/999	9
- 10/1		11:25		0	0	0	20.9	15/999	9
		3:13		0	0	0	20.9	14/999	9
									+
								Ŀ	

Name & Designation

Signature

Date

12/12/22

Field Operator:

Cheung Hoi Kit

70

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

ENVIRONMENTAL PROTECTION DEPARTMENT

13

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28/7/2022
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)	Remark
D:+ A	12/12/22	8.20	suppy		0	0	20.9	13/999	9
	13/12/22	11.25	Sunny		0	0	20.9	15/999	9
		3:13		Ŏ	0	0	20.9	14/999	9
	·								

Name & Designation

Signature

Date

Field Operator:

Cheung Hoi Kit



13/12/22

Laboratory Staff:

Checked by:

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

Dates calibrated
28/7/2022
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)	Remark
	4.4.12./22	0.00			0	0	20.9	13/999	9
Pit A	14/12/22	8:20	sunny	0	0	0	20.9	15/999	9
		3.13		0	0	0	20.9	14/999	9
		5.15		<u> </u>					

Name & Designation

Signature

<u>Date</u>

Field Operator:

Cheung Hoi Kit



14/12/22

Laboratory Staff:

Checked by:

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28/7/2022
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)	Remark
Pit A	15/12/22	8:20	sunny	0	0	0	20.9	13/999	9
		11:25		0	0	0	20.9	15/999	9
		3:13		0	0	0	20.9	14/999	9
		-							
			-						
·									

Name & Designation

<u>Signature</u>

Date

Field Operator:

Cheung Hoi Kit



15/12/22

Laboratory Staff:

Checked by:

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28/7/2022
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)	Remark
Pit A	16/12/22	8:20	sunny	0	0	0	20.9	13/999	9
		11:25		0	0	0	20.9	15/999	9
		3:13		0	0	0	20.9	14/999	9
		1							
				-					

Name & Designation

Signature

<u>Date</u>

Field Operator:

Cheung Hoi Kit



16/12/22

Laboratory Staff:

Checked by:

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28/7/2022
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)	Remark
 Di+ Δ	17/12/22	8.20	suppy	0	0	0	20.9	13/999	9
	1//12/22	11:25	Junny	0	0	0	20.9	15/999	9
		3:13		0	0	0	20.9	14/999	9
	1								
							+		

Field Operator:

Name & Designation



Cheung Hoi Kit



17/12/22

Date

Laboratory Staff:

Checked by:

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28/7/2022
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)	Remark	
				ļ		L		12/000	+	
Pit A	19/12/22	8:20	sunny	0	0	0	20.9	13/999	4 9	
		11:25		0	0	0	20.9	15/999	9	
		3:13		0	0	0	20.9	14/999	9	
		1								
	+									
	1									
		1								
		1								
			-							
				-						

Name & Designation

Signature

Date

Field Operator:

Cheung Hoi Kit



19/12/22

Laboratory Staff:

Checked by:

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28/7/2022
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)	Remark	
Pit A	20/12/22	8:20	sunny	0	0	0	20.9	13/999	9	
		11:25		0	0	0	20.9	15/999	9	
		3:13		0	0	0	20.9	14/999	9	
								-		
			1							

Name & Designation

<u>Signature</u>

Date

20/12/22

Field Operator:

Cheung Hoi Kit



Laboratory Staff:

Checked by:

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

Sampling equipment used:	Dates calibrated	
PGM-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 (⁰C)	Remark
									<u> </u>
Pit A	21/12/22	8:20	rain	0	0	0	20.9	13/999	9
		11:25		0	0	0	20.9	15/999	9
		3:13		0	0	0	20.9	14/999	9
		1							
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			-						

Name & Designation

<u>Signature</u>

<u>Date</u>

Field Operator:

Cheung Hoi Kit



21/12/22

Laboratory Staff:

Checked by:

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28/7/2022
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)	Remark
Pit A	22/12/22	8:20	sunny	0	0	0	20.9	13/999	9
		11:25		0	0	0	20.9	15/999	9
		3:13		0	0	0	20.9	14/999	9
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		-					<u></u>		
			<u> </u>				<u> </u>		

Name & Designation

<u>Signature</u>

Date

Field Operator:

Cheung Hoi Kit



22/12/22

Laboratory Staff:

Checked by:

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28/7/2022
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)	Remark
Pit A	23/12/22	8:20	sunny	0	0	0	20.9	13/999	9
		11:25		0	0	0	20.9	15/999	9
		3:13		0	0	0	20.9	14/999	9
	_								_

	Name & Designation	Signature	Date
Field Operator:	Cheung Hoi Kit	Y o	23/12/22
Laboratory Staff:			
Checked by:			

ENVIRONMENTAL RESOURCES MANAGEMENT

ENVIRONMENTAL PROTECTION DEPARTMENT

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28/7/2022
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)	Remark
							20.0	12/000	<u> </u>
Pit A	24/12/22	8:20	sunny	0	0	0	20.9	13/999	9
		11:25		0	0	0	20.9	15/999	9
		3:13		0	0	0	20.9	14/999	9
	1								
		-							

Name & Designation

Signature

<u>Date</u>

Field Operator:

Cheung Hoi Kit



24/12/22

Laboratory Staff:

Checked by:

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28/7/2022
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)	Remark
	0.0 / 0.0								
Pit A	28/12/22	8:20	sunny	0	0	0	20.9	23/999	9
		11:25		0	0	0	20.9	27/999	9
		3:13		0	0	0	20.9	24/999	9
									1

Name & Designation

Signature

<u>Date</u>

Field Operator:

Cheung Hoi Kit



28/12/22

Laboratory Staff:

Checked by:

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28/7/2022
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)	Remark
Pit A	29/12/22	8:20	sunny	0	0	0	20.9	13/999	9
		11:25		0	0	0	20.9	15/999	9
		3:13		Ó	0	0	20.9	14/999	9
				L					ļ

Name & Designation

Signature

Date

Field Operator:

Cheung Hoi Kit



29/12/22

Laboratory Staff:

Checked by:

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28/7/2022
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)	Remark
	22/42/22						20.0	22/000	
Pit A	30/12/22	8:20	sunny	0	0	0	20.9	23/999	9
		11:25		0	0	0	20.9	27/999	9
		3:13		0	0	0	20.9	24/999	9
			1						

Name & Designation

<u>Signature</u>

Date

Field Operator:

Cheung Hoi Kit

Yo

30/12/22

Laboratory Staff:

Checked by:

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

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28/7/2022
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)	Remark
Pit A	31/12/22	8.20	sunny	0	0	0	20.9	23/999	9
		11:25	Junny	0	0	0	20.9	27/999	9
		3:13		0	0	0	20.9	24/999	9
							<u> </u>		
						1			
					<u></u>				

Field Operator:

Name & Designation

Signature

Date

Cheung Hoi Kit



31/12/22

Laboratory Staff:

Checked by:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	1/12/2022	0830	Rain/ Fine	0	0	0	20.9	17/009	8.4
	1 u	1330	Rain/ Fine	0	0	0	20.9	22/ 1009	8.4
	4	1700	Rain/ Fine	0	0	0	20.9	18 / (0)0	8.4
Area 137 Pit B	J.	0830	Rain/Fine	0	0	0	20.9	17/ 1009	8.6
	ų	1330	Rain/ Fine	0	0	0	20.9	21/ (000	8.6
	ų	1700	Rain/Fine	0	0	0	20.9	18/ (0)0	8.6
Area 137 Pit C		0830	Rain/Fine	0	0	0	20.9	17/ 100	10
		1330	Rain/Fine	0	0	0	20.9	21/ (.11	10
	4	1700	Rain/ Fine	0	0	0	20.9	(8 / (0))	10

Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218]) Signature

Date

1/12/2022

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)	
Area 137 Pit A	2/12/2022	0830	Rain/ Fine	0	0	0	20.9	17/1009	8.4	
	×	1330	Rain/ Fine	0	0	0	20.9	20 / [009	8.4	
	ч	1700	Rain/ Fine	0	0	0	20.9	(8/ (000	8.4	
Area 137 Pit B	ч	0830	Rain/ Fine	0	0	0	20.9	17/ (009	8.6	
	4	1330	Rain/Fine	0	0	0	20.9	211 (010)	8.6	
	4	1700	Rain/ Fine	0	0	0	20.9	18/ (0)0	8.6	
Area 137 Pit C	4	0830	Rain/Fine	0	0	0	20.9	17/ 1009	10	
	4	1330	Rain/Fine	0	0	0	20.9	21/ (21)	10	
	4	1700	Rain/ Fine	0	0	0	20.9	17/ 1011	10	

Field Operator:

Name & Designation

Signature

Date

Jock Lee (Competent Person [CO-310218])

8

2/12/2022

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	3 12 2022	0830	Rain/ Fine	0	0	0	20.9	17/1009	8.4
		1330	Rain/ Fine	0	0	0	20.9	21/1010	8.4
	ч	1700	Rain/ Fine	0	0	0	20.9	(8/1010	8.4
Area 137 Pit B	2	0830	Rain/ Fine	0	0	0	20.9	(7/loop	8.6
	5	1330	Rain/ Fine	0	0	0	20.9	22/ [00]	8.6
	M	1700	Rain/Fine	0	0	0	20.9	18/1010	8.6
Area 137 Pit C	6	0830	Rain/Fine	0	0	0	20.9	17/100	10
	м	1330	Rain/Fine	0	0	0	20.9	2/ / 10/0	10
	ۍ ا	1700	Rain/Fine	0	0	0	20.9	18 / (011	10
		Name & Designati	on			Signature			Date
Field Operator:		Jock Lee (Compete	ent Person [CO-310	0218])		Y			3/12/2022.

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	5/12/2022	0830	Rain/ Fine	0	0	0	20.9	1/0/0/0	8.4
	- U	1330	Rain/ Fine	0	0	0	20.9	20 / (0/0	8.4
	ч	1700	Rain/ Fine	0	0	0	20.9	171 (009	8.4
Area 137 Pit B	ч	0830	Rain/Fine	0	0	0	20.9	16/1010	8.6
	ч	1330	Rain/ Fine	0	0	0	20.9	21/ [009	8.6
	4	1700	Rain/Fine	0	0	0	20.9	17/ [DOP	8.6
Area 137 Pit C	ч	0830	Rain/Fine	0	0	0	20.9	17/1010	10
	ч	1330	Rain/Fine	0	0	0	20.9	~1 / [0]0	10
	6	1700	Rain/ Fine	0	0	0	20.9	17/ [01]	10
<u>L</u>	1	NI OD :				Cianatura			Date

Field Operator:

<u>Name & Designation</u> Jock Lee (Competent Person [CO-310218]) Signature

<u>Date</u> 5/12/2022

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	6/12/2022	0830	Rain/Fine	0	0	0	20.9	171 (009	8.4
	u u	1330	Rain/ Fine	0	0	0	20.9	20 / (010	8.4
	ч	1700	Rain/ Fine	0	0	0	20.9	18/ 10/0	8.4
Area 137 Pit B	u	0830	Rain/Fine	0	0	0	20.9	171 1010	8.6
	ч	1330	Rain/Fine	0	0	0	20.9	21/ [00]	8.6
	4	1700	Rain/Fine	0	0	0	20.9	18/ (009	8.6
Area 137 Pit C	u U	0830	Ram/ Fine	0	0	0	20.9	(7/ (0/0	10
	4	1330	Rain/Fine	0	0	0	20.9	201 (010	10
	a	1700	Rain/ Fine	0	0	0	20.9	17/ [01]	10
Name & Designation			07	Signature					Date

Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218]) Signature

7

6/12/2022

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	7/12/2022	0830	Rain/ Fine	0	0	0	20.9	17/1009	8.4
	4	1330	Rain/ Fine	0	0	0	20.9	21/ [00]	8.4
	ч	1700	Rain/ Fine	0	0	0	20.9	17/10/0	8.4
Area 137 Pit B	v	0830	Rain/ Fine	0	0	0	20.9	17/08	8.6
	4	1330	Rain/ Fine	0	0	0	20.9	21/1009	8.6
	5	1700	Rain/ Fine	0	0	0	20.9	18/1010	8.6
Area 137 Pit C	1	0830	Rain/ Fine	0	0	0	20.9	17/1010	10
	ч	1330	Rain/Fine	0	0	0	20.9	20/ (0/0	10
	~	1700	Rain/ Fine	0	0	0	20.9	18 / 1041	10
		Name & Designati	on			Signature			<u>Date</u>
Field Operator:		Jock Lee (Compete	ent Person [CO-310	0218])		2		2	7/12/2022

Laboratory Staff:

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	g wells/ Surface Ga	s Emission		
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	8/12/2022	0830	Rain/ Fine	0	0	0	20.9	01071 01	8.4
	4	1330	Rain/Fine	0	0	0	20.9	20 / 500	8.4
	~	1700	Rain/Fine	0	0	0	20.9	17/ 1009	8.4
Area 137 Pit B	CA .	0830	Rain/Fine	0	0	0	20.9	16/ (009	8.6
	<u>د</u>	1330	Rain/ Fine	0	0	0	20.9	20/ [20	8.6
	~	1700	Rain/Fine	0	0	0 ·	20.9	(8/ (010	8.6
Area 137 Pit C	4	0830	Rain/Fine	0	0	0	20.9	16/ 1009	10
	5	1330	Rain/Fine	0	0	0	20.9	[9 / (01)	10
	4	1700	Rain/ Fine	0	0	0	20.9	18/ [01]	10
L						Signature			Date

Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218]) Signature

8

8/12/2022

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)			
Area 137 Pit A	9/12/2022	0830	Rain/ Fine	0	0	0	20.9	171010	8.4			
	y	1330	Rain/ Fine	0	0	0	20.9	20/1009	8.4			
	2	1700	Rain/ Fine	0	0	0	20.9	18/ 1009	8.4			
Area 137 Pit B	ú	0830	Rain/ Fine	0	0	0	20.9	17/ 1009	8.6			
	4	1330	Rain/ Fine	0	0	0	20.9	2/1 10/0	8.6			
1	4	1700	Rain/ Fine	0	0	0	20.9	18/ 10/0	8.6			
Area 137 Pit C	4	0830	Rain/Fine	0	0	0	20.9	171 (010	10			
	4	1330	Rain/Fine	0	0	0	20.9	201 [0]0	10			
	4	1700	Rain/ Fine	0	0	0	20.9	18/ 1011	10			

Field Operator:

<u>Name & Designation</u> Jock Lee (Competent Person [CO-310218]) Signature

Date 9/12/2022

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	(0/12/2022	0830	Rain/ Fine	0	0	0	20.9	16/1009	8.4
		1330	Rain/ Fine	0	0	0	20.9	20 / 10(0	8.4
	ч	1700	Rain/ Fine	0	0	0	20.9	17/ 1010	8.4
Area 137 Pit B	ч	0830	Rain/ Fine	0	0	0	20.9	16/ (010	8.6
	4	1330	Rain/ Fine	0	0	0	20.9	21/ 1010	8.6
	U.	1700	Rain/ Fine	0	0	0	20.9	17/ 1009	8.6
Area 137 Pit C	ч	0830	Rain/ Fine	0	0	0	20.9	17/ 1009	10
	ч	1330	Rain/Fine	0	0	0	20.9	201 (01)	10
	N.	1700	Rain/Fine	0	0	0	20.9	18/ 1011	10

Field Operator:

<u>Name & Designation</u> Jock Lee (Competent Person [CO-310218]) Signature

Y

<u>Date</u> 2/12/2022

Laboratory Staff:

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

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Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218]) Signature

8

Date

12/12/2022

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	12/12/2022	0830	Rain/ Fine	0	0	0	20.9	17/1009	8.4
	Y Y	1330	Rain/Fine	0	0	0	20.9	20 / (009	8.4
	N.	1700	Rain/ Fine	0	0	0	20.9	171 (010	8.4
Area 137 Pit B	ч	0830	Rain/ Fine	0	0	0	20.9	17/ (010	8.6
- 01-11	4	1330	Rain/ Fine	0	0	0	20.9	21/ (010	8.6
	ч	1700	Rain/Fine	0	0	0	20.9	(7/ (009	8.6
Area 137 Pit C	v	0830	Rain/Fine	0	0	0	20.9	171 000	10
	4	1330	Rain/Fine	0	0	0	20.9	1101 / 05	10
	N	1700	Rain/Fine	0	0	0	20.9	(8 / 1011	10

Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218]) Signature

8

Date 13/12/2022

Laboratory Staff:

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

	Date of measurement	Sampling time	Monitoring wells/ Surface Gas Emission						
Sample location			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	14/12/2022	0830	Rain/ Fine	0	0	0	20.9	17/100	8.4
	v v	1330	Rain/ Fine	0	0	0	20.9	20/ (00	8.4
	Ч	1700	Rain/Fine	0	0	0	20.9	(8/1009	8.4
Area 137 Pit B	ч	0830	Rain/ Fine	0	0	0	20.9	16/1009	8.6
	4	1330	Rain/ Fine	0	0	0	20.9	20/ (009	8.6
	4	1700	Rain/Fine	0	0	0	20.9	17/10/0	8.6
Area 137 Pit C	ч	0830	Rain/Fine	0	0	0	20.9	16/1010	10
	5	1330	Rain/Fine	0	0	0	20.9	20/ (01)	. 10
	~	1700	Rain/ Fine	0	0	0	20.9	17/ 1011	10

Field Operator:

<u>Name & Designation</u> Jock Lee (Competent Person [CO-310218]) Signature

<u>Date</u> 412/2022

Laboratory Staff:
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							
Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)	
15/12/2022	0830	Rain/ Fine	0	0	0	20.9	17/1009	8.4	
14	1330	Rain/ Fine	0	0	0	20.9	21/1009	8.4	
ч	1700	Rain/ Fine	0	0	0	20.9	18/ (010	8.4	
a	0830	Rain/ Fine	0	0	0	20.9	17/100	8.6	
7	1330	Rain/ Fine	0	0	0	20.9	~ 1 (00	8.6	
4	1700	Rain/ Fine	0	0	0	20.9	17/ 1011	8.6	
	0830	Rain/ Fine	0	0	0	20.9	17/ 1010	10	
6	1330	Rain/ Fine	0	0	0	20.9	201 1009	10	
٩	1700	Rain Fine	0	0	0	20.9	17/ (009	10	
n (Date of neasurement $\frac{5/12/2022}{4}$	Date of neasurementSampling time $5/12/2022$ 0830 $4/12/2022$ 0830	Date of neasurementSampling timeWeather conditionSampling timeWeather condition12 20220830Rain/ Fine1330Rain/ Fine	Date of neasurementSampling timeWeather conditionBalance gas (%)S/12Vor0830Rain/ Fine01330Rain/ Fine001700Rain/ Fine01330Rain/ Fine0	Date of neasurementSampling timeWeather conditionBalance gas (%)Flammable gas (methane %)S/12Vor0830Rain/ Fine001330Rain/ Fine001700Rain/ Fine001330Rain/ Fine00	Date of neasurementSampling timeWeather conditionBalance gas (%)Flammable gas (methane %)Carbon dioxide(%)\$\frac{1}{12} \colspanses0830Rain/Fine000\$\frac{1}{1330}\$Rain/Fine000\$\frac{1}{1700}\$Rain/Fine000\$\frac{1}{1330}\$ <td>Date of neasurement Sampling time Weather condition Balance gas (%) Flammable gas (methane %) Carbon dioxide(%) Oxygen (%) \$\screwneller \colored lines 0830 Rain/Fine 0 0 0 20.9 \$\screwneller \colored lines 1330 Rain/Fine 0 0 0 20.9 \$\screwneller \colored lines 1700 Rain/Fine 0 0 0 20.9 \$\screwneller \colored lines 0 0 0 20.9 20.9 \$\screwneller \colored lines 8ain/Fine 0 0 0 20.9 \$\screwneller \colored lines 8ain/Fine 0 0 20.9 \$\screwneller \colored lines 9 0830 Rain/Fine 0 0 20.9 \$\screwneller \colored lines <td< td=""><td>Date of neasurementSampling timeWeather conditionBalance gas (%)Flammable gas (methane %)Carbon dioxide(%)Oxygen (%)Temp (oC) / Pressure (mbar)$5/(12)$ loss0830Rain/Fine00020.9$1/$ / [oof$4/(12)$0830Rain/Fine00020.9$1/$ / [oof$4/(12)$1330Rain/Fine00020.9$1/$ / [oof$4/(12)$0830Rain/Fine00020.9$1/$ / [oof$4/(12)$1700Rain/Fine00020.9$1/$ / [oof$1/(12)$1330Rain/Fine00020.9$1/$ / [oof$4/(12)$1700Rain/Fine00020.9$1/$ / [oof$4/(12)$1330Rain/Fine00020.9$1/$ / [o</td></td<></td>	Date of neasurement Sampling time Weather condition Balance gas (%) Flammable gas (methane %) Carbon dioxide(%) Oxygen (%) \$\screwneller \colored lines 0830 Rain/Fine 0 0 0 20.9 \$\screwneller \colored lines 1330 Rain/Fine 0 0 0 20.9 \$\screwneller \colored lines 1700 Rain/Fine 0 0 0 20.9 \$\screwneller \colored lines 0 0 0 20.9 20.9 \$\screwneller \colored lines 8ain/Fine 0 0 0 20.9 \$\screwneller \colored lines 8ain/Fine 0 0 20.9 \$\screwneller \colored lines 9 0830 Rain/Fine 0 0 20.9 \$\screwneller \colored lines <td< td=""><td>Date of neasurementSampling timeWeather conditionBalance gas (%)Flammable gas (methane %)Carbon dioxide(%)Oxygen (%)Temp (oC) / Pressure (mbar)$5/(12)$ loss0830Rain/Fine00020.9$1/$ / [oof$4/(12)$0830Rain/Fine00020.9$1/$ / [oof$4/(12)$1330Rain/Fine00020.9$1/$ / [oof$4/(12)$0830Rain/Fine00020.9$1/$ / [oof$4/(12)$1700Rain/Fine00020.9$1/$ / [oof$1/(12)$1330Rain/Fine00020.9$1/$ / [oof$4/(12)$1700Rain/Fine00020.9$1/$ / [oof$4/(12)$1330Rain/Fine00020.9$1/$ / [o</td></td<>	Date of neasurementSampling timeWeather conditionBalance gas (%)Flammable gas (methane %)Carbon dioxide(%)Oxygen (%)Temp (oC) / Pressure (mbar) $5/(12)$ loss0830Rain/Fine00020.9 $1/$ / [oof $4/(12)$ 0830Rain/Fine00020.9 $1/$ / [oof $4/(12)$ 1330Rain/Fine00020.9 $1/$ / [oof $4/(12)$ 0830Rain/Fine00020.9 $1/$ / [oof $4/(12)$ 1700Rain/Fine00020.9 $1/$ / [oof $1/(12)$ 1330Rain/Fine00020.9 $1/$ / [oof $4/(12)$ 1700Rain/Fine00020.9 $1/$ / [oof $4/(12)$ 1330Rain/Fine00020.9 $1/$ / [o	

Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218]) Signature

8

15/12/2022

Laboratory Staff:

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

1				Monitoring wells/ Surface Gas Emission							
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)		
Area 137 Pit A	16/12/2022	0830	Rain/ Fine	0	0	0	20.9	171 (0/0	8.4		
	LI LI	1330	Rain/ Fine	0	0	0	20.9	21 / 1010	8.4		
	ч	1700	Rain/ Fine	0	0	0	20.9	18/ [01]	8.4		
Area 137 Pit B	ч	0830	Rain/ Fine	0	0	0	20.9	17/1010	8.6		
	ч	1330	Rain/ Fine	0	0	0	20.9	- 70 / [009	8.6		
	N	1700	Rain/ Fine	0	0	0	20.9	18 / 1009	8.6		
Area 137 Pit C	ч	0830	Rain/Fine	0	0	0	20.9	(7 / (00	10		
	4	1330	Rain/Fine	0	0	0	20.9	~1 / [0]0	10		
	<mark>ل</mark>	1700	Rain/Fine	0	0	0	20.9	17/ (01)	10		
Name & Designation			on			Signature			Date		
Field Operator:		Jock Lee (Compete	ent Person [CO-310	0218])		ষ		ι	6/12/2022		

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)		
Area 137 Pit A	17/12/2022	0830	Rain/ Fine	0	0	0	20.9	16/ 1009	8.4		
		1330	Rain/ Fine	0	0	0	20.9	20 / 1009	8.4		
	cl	1700	Rain/Fine	0	0	0	20.9	17/ 1010	8.4		
Area 137 Pit B	Ч	0830	Rain/Fine	0	0	0	20.9	16/010	8.6		
	્ય	1330	Rain/Fine	0	0	0	20.9	19/ (010	8.6		
	ч	1700	Rain/Fine	0	0	0	20.9	171 (009	8.6		
Area 137 Pit C	vi	0830	Rain/Fine	0	0	0	20.9	16/000	10		
	v	1330	Rain/Fine	0	0	0	20.9	19/ 100	10		
	u	1700	Rain/ Fine	0	0	0	20.9	17/ 1011	10		
Name & Designation						Signature		1	Date		
Field Operator: Jock Lee (Compete			ent Person [CO-310	0218])		Ъ		c [†]	7/12/2022		

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	19/12/2022	0830	Rain/ Fine	0	0	0	20.9	17/10/0	8.4
		1330	Rain/ Fine	0	0	0	20.9	21/500	8.4
	2	1700	Rain/ Fine	0	0	0	20.9	18 / 1011	8.4
Area 137 Pit B	4	0830	Rain/ Fine	0	0	0	20.9	17/100	8.6
	CA .	1330	Rain/ Fine	0	0	0	20.9	20/1009	8.6
		1700	Rain/ Fine	0	0	0	20.9	18 / (009	8.6
Area 137 Pit C	4	0830	Rain/Fine	0	0	0	20.9	16/100	10
	4	1330	Rain/Fine	0	0	0	20.9	20/ [0]0	10
	×	1700	Rain/ Fine	0	0	0	20.9	18/1011	10

Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218]) Signature

8

Date

19/12/2022

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	20/12/2022	0830	Rain/ Fine	0	0	0	20.9	(6/000	8.4
	4	1330	Rain/Fine	0	0	0	20.9	20/ [0[0	8.4
		1700	Rain/Fine	0	0	0	20.9	18 / (01)	8.4
Area 137 Pit B	4	0830	Rain/Fine	0	0	0	20.9	6/ 00	8.6
	5	1330	Rain/Fine	0	0	0	20.9	19/ [009	8.6
	4	1700	Rain/Fine	0	0	0	20.9	17/ 1009	8.6
Area 137 Pit C	5	0830	Rain/ Fine	0	0	0	20.9	16/ 6/0	10
	4	1330	Rain/ Fine	0	0	0	20.9	20/ (0)	10
	64	1700	Rain/ Fine	0	0	0	20.9	[8 / [01]	10
Name & Designation						Signature			Date
Field Operator:		Jock Lee (Compet	ent Person [CO-31	0218])		8		1	20/12/2022

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)		
Area 137 Pit A	21 12 2022	0830	Rain/ Fine	0	0	0	20.9	17/1010	8.4		
	Y	1330	Rain/ Fine	0	0	0	20.9	20 / (009	8.4		
	ч	1700	Rain/ Fine	0	0	0	20.9	18/ (009	8.4		
Area 137 Pit B	• (0830	Rain/ Fine	0	0	0	20.9	17/1011	8.6		
	cs.	1330	Rain/ Fine	0	0	0	20.9	21/ (00	8.6		
	2	1700	Rain/ Fine	0	0	0	20.9	18/ 100	8.6		
Area 137 Pit C	5	0830	Rain/ Fine	0	0	0	20.9	17/ (010	10		
	4	1330	Rain/ Fine	0	0	0	20.9	20/ (0[0	10		
	ч	1700	Rain/ Fine	0	0	0	20.9	(8/1009	10		

Field Operator:

<u>Name & Designation</u> Jock Lee (Competent Person [CO-310218]) Signature

7

Date 21/12/2022

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)		
Area 137 Pit A	22/12/2022	0830	Rain/ Fine	0	0	0	20.9	16/1009	8.4		
	NI	1330	Rain/ Fine	0	0	0	20.9	20/ (009	8.4		
	ч	1700	Rain/ Fine	0	0	0	20.9	17/10/0	8.4		
Area 137 Pit B	ч	0830	Rain/ Fine	0	0	0	20.9	16/000	8.6		
	и	1330	Rain/ Fine	0	0	0	20.9	20/ 10/0	8.6		
	ч	1700	Rain/Fine	0	0	0	20.9	1/10) 1 81	8.6		
Area 137 Pit C	ч	0830	Rain/Fine	0	0	0	20.9	16/ 1010	10		
	u	1330	Rain/ Fine	0	0	0	20.9	20/ 10/0	10		
	м	1700	Rain/ Fine	0	0	0	20.9	(8/ (01)	10		

Field Operator:

Name & Designation

Signature

Date

Jock Lee (Competent Person [CO-310218])

8

22/12/2022

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)		
Area 137 Pit A	23 12 7022	0830	Rain/ Fine	0	0	0	20.9	17/ (010	8.4		
	Ч	1330	Rain/ Fine	0	0	0	20.9	20/100	8.4		
	UI.	1700	Rain/ Fine	0	0	0	20.9	18/ (009	8.4		
Area 137 Pit B	ч	0830	Rain/ Fine	0	0	0	20.9	17/ (010	8.6		
	ч	1330	Rain/ Fine	0	0	0	20.9	20/ 1009	8.6		
	ч	1700	Rain/ Fine	0	0	0	20.9	17/ 1009	8.6		
Area 137 Pit C	ч	0830	Rain/ Fine	0	0	0	20.9	17/ (009	10		
	<u>6</u>	1330	Rain/Fine	0	0	0	20.9	20/ (000	10		
	N	1700	Rain/ Fine	0	0	0	20.9	18/ (010	10		

Field Operator:

Name & Designation

Signature

<u>Date</u>

Tield Operator.

Jock Lee (Competent Person [CO-310218])

8

23/12/2022

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)		
Area 137 Pit A	2012/2022	0830	Rain/ Fine	0	0	0	20.9	17/100	8.4		
	- Alia	1330	Rain/ Fine	0	0	0	20.9	20 / [0]0	8.4		
	ч	1700	Rain/ Fine	0	0	0	20.9	(8 / (0()	8.4		
Area 137 Pit B	4	0830	Rain/Fine	0	0	0	20.9	16/ 1010	8.6		
	L L	1330	Rain/Fine	0	0	0	20.9	20/ 1009	8.6		
	~	1700	Rain/Fine	0	0	0	20.9	17/1009	8.6		
Area 137 Pit C	~	0830	Rain/Fine	0	0	0	20.9	16/ 100	10		
	~	1330	Rain/Fine	0	0	0	20.9	20/ [01]	10		
	U	1700	Rain/ Fine	0	0	0	20.9	17/ 101	10		

Field Operator:

Name & Designation

Signature

Date

Jock Lee (Competent Person [CO-310218])

8

24/12/2022

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	28/12/2022	0830	Rain/ Fine	0	0	0	20.9	17/1009	8.4
		1330	Rain/ Fine	0	0	0	20.9	21/ 1009	8.4
	4	1700	Rain/ Fine	0	0	0	20.9	18/ (010	8.4
Area 137 Pit B	ч	0830	Rain/ Fine	0	0	0	20.9	17/ 1009	8.6
	4	1330	Rain/ Fine	0	0	0	20.9	2/1 (010	8.6
	<i>u</i>	1700	Rain/ Fine	0	0	0	20.9	(8/ (010	8.6
Area 137 Pit C	ч	0830	Rain/Fine	0	0	0	20.9	171 (010	10
	4	1330	Rain/Fine	0	0	0	20.9	20/ [0]0	10
	ч	1700	Rain/ Fine	0	0	0	20.9	(/ ())	10
L		Name & Designati	on			Signature		0	Date

Field Operator:

Name & Designation 7

8

Jock Lee (Competent Person [CO-310218])

28/12/2022

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	29 12 2022	0830	Rain/ Fine	0	0	0	20.9	10/00	8.4
	u	1330	Rain/ Fine	0	0	0	20.9	20/ (00	8.4
	u	1700	Rain/ Fine	0	0	0	20.9	17/ 1011	8.4
Area 137 Pit B	CI	0830	Rain/ Fine	0	0	0	20.9	16/1009	8.6
	0	1330	Rain/ Fine	0	0	0	20.9	2// (009	8.6
	ч	1700	Rain/Fine	0	0	0	20.9	18/ (210	8.6
Area 137 Pit C	Ś	0830	Rain/Fine	0	0	0	20.9	[6/ [0]0	10
	4	1330	Rain/ Fine	0	0	0	20.9	21/ (01)	10
	N	1700	Rain/ Fine	0	0	0	20.9	17/ [011	10

Field Operator:

Name & Designation

Signature

Date

Jock Lee (Competent Person [CO-310218])

8

29/12/2022 .

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)			
Area 137 Pit A	30 12/2022	0830	Rain/ Fine	0	0	0	20.9	16/1010	8.4			
		1330	Rain/ Fine	0	0	0	20.9	20 / (010	8.4			
	5	1700	Rain/ Fine	0	0	0	20.9	17/ 1009	8.4			
Area 137 Pit B	~	0830	Rain/ Fine	0	0	0	20.9	16/1009	8.6			
	~	1330	Rain/ Fine	0	0	0	20.9	20/ 1008	8.6			
	5	1700	Rain/ Fine	0	0	0	20.9	(8/ (0))	8.6			
Area 137 Pit C	N (1997)	0830	Rain/ Fine	0	0	0	20.9	6/ [0]0	10			
	5	1330	Rain/ Fine	0	0	0	20.9	201 1010	10			
	\$	1700	Rain/ Fine	0	0	0	20.9	18 / [01]	10			
		Name & Designati	on			Signature			Date			

Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218])

8

30/12/2012

Laboratory Staff:

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	g wells/ Surface Gas	Emission		
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area 137 Pit A	3/12/2022	0830	Rain/ Fine	0	0	0	20.9	16/1009	8.4
	-1	1330	Rain/ Fine	0	0	0	20.9	21/1001	8.4
	5	1700	Rain/ Fine	0	0	0	20.9	18/6/0	8.4
Area 137 Pit B	4	0830	Rain/ Fine	0	0	0	20.9	16/1010	8.6
	4	1330	Rain/ Fine	0	0	0	20.9	~0/ (0)0	8.6
	5	1700	Rain/ Fine	0	0	0	20.9	18 / [01]	8.6
Area 137 Pit C		0830	Rain/ Fine	0	0	0	20.9	16/ 6009	10
	4	1330	Rain/Fine	0	0	0	20.9	21/ 1009	10
	~	1700	Rain/ Fine	0	0	0	20.9	18/ 1000	10

Field Operator:

Name & Designation

Signature

Jock Lee (Competent Person [CO-310218])

X

Date 31/12/2022

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	me	Date o asurer	of nent	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area A	- X	12	2022	0830	Rain/ Fine	0	0	0	20.9	17/1009	5.5
		' V	1	1330	Rain/ Fine	0	0	0	20.9	2//100	5.5
		ч		1700	Rain/ Fine	0	0	0	20.9	19/1010	5.5
							-			1	
ANER B											
				Name & Designation	on			Signature			Date
Field Operator:				Jock Lee (Compete	ent Person [CO-310)218])		X			1/17/2022

1/12/2022

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement	Sampling time	. Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area A	7/12/2022	0830	Rain/ Fine	0	0	0	20.9	P 1 (00P	5.5
		1330	Rain/ Fine	0	0	0	20.9	20 / 1009	5.5
		1700	Rain/ Fine	0	0	0	20.9	18/1010	5.5
Name & Designation Signature Da									Date

Field Operator:

Jock Lee (Competent Person [CO-310218])

Y

2/12/2022

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement	Sampling time	- Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area A	3/12/2022	0830	Rain/ Fine	0	0	0	20.9	17/1010	5.5
	u u	1330	Rain/ Fine	0	0	0	20.9	2// 10/0	5.5
	J	1700	Rain/ Fine	0	0	0	20.9	18/1009	5.5
								1	
		Name & Designati	on	J		Signature			Date
Field Operator:		Jock Lee (Compete	ent Person [CO-31]	0218])		X			3/12/2012

Field Operator:

Jock Lee (Competent Person [CO-310218])

3/12/2022

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area A	5/12/2022	0830	Rain/ Fine	0	0	0	20.9	171 (009	5.5
		1330	Rain/ Fine	0	0	0	20.9	20 / (010	5.5
	ч	1700	Rain/ Fine	0	0	0	20.9	18 1 00	5.5
-									
L	1	Name & Designati	On		Signature		1	Date	

Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218]) <u>Signature</u>

5/12/2022

Laboratory Staff:

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	g wells/ Surface Gas	Emission		
Sample location	Date of measurement	Sampling time	Weather	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area A	6/12/2022	0830	Rain/ Fine	0	0	0	20.9	17 1000	5.5
	u	1330	Rain/ Fine	0	0	0	20.9	21/ [010	5.5
	٨	1700	Rain/ Fine	0	0	0	20.9	18/1011	5.5
Name & Designation Signature Da									Date

Field Operator:

Jock Lee (Competent Person [CO-310218])

6/12/2022

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement	Sampling time	- Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area A	7/12/2022	0830	Rain/ Fine	0	0	0	20.9	18/1009	5.5
		1330	Rain/Fine	0	0	0	20.9	20/1009	5.5
		1700	Rain/Fine	0	0	0	20.9	17/10/0	5.5
			1						
		Name & Designati	on			Signature	d		Date

2

Field Operator:

<u>Name & Designation</u> Jock Lee (Competent Person [CO-310218])

7/12/2012

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement	Sampling time	, Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area A	8/12/2022	0830	Rain/ Fine	0	0	0	20.9	A 1 (009	5.5
	4	1330	Rain/ Fine	0	0	0	20.9	21/008	5.5
	4	1700	Rain/ Fine	0	0	0	20.9	16/1010	5.5
					×				
L	1	Name & Designati	on	1		Signature			Date
Field Operator:		Jock Lee (Compete	ent Person [CO-310	0218])		X			8/12/2022

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area A	9/12/2022	0830	Rain/ Fine	0	0	0	20.9	16/ 1011	5.5
	ч	1330	Rain/ Fine	0	0	0	20.9	21/1010	5.5
	ч	1700	Rain/ Fine	0	0	0	20.9	101 1010	5.5
				2					
						5			
					3				
		Name & Designati	on			Signature			Date
Field Operator:		Jock Lee (Compete	ent Person [CO-310	0218])		8			9/12/2022

Laboratory Staff:

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	
	9	

						Monitoring	g wells/ Surface Gas	s Emission		
Sample location	D meas	ate of surement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area A	10	12 2022	0830	Rain/ Fine	0	0	0	20.9	17/009	5.5
		~	1330	Rain/ Fine	0	0	0	20.9	20/(009	5.5
		и	1700	Rain/ Fine	0	0	0	20.9	18/ 100	5.5
		and the second second								
	,									
			Name & Designati	<u>on</u>	L		Signature			Date
Field Operator:			Jock Lee (Compete	ent Person [CO-310)218])		8		(0/12/2022

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement	Sampling time	, Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area A	12 12 2022	0830	Rain/ Fine	0	0	0	20.9	17/1009	5.5
	l _y t	1330	Rain/Fine	0	0	0	20.9	2 / (0 0	5.5
	ч	1700	Rain/ Fine	0	0	0	20.9	17/10/0	5.5
			c						
		Nome & Designati	07	J		Signature	I		Date

Field Operator:

Name & Designation

Jighature

Jock Lee (Competent Person [CO-310218])

8

12/12/2022

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		1
Sample location	Date of measurement	Sampling time	, Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area A	13/12/2022	0830	Rain/ Fine	0	0	0	20.9	18/10/1	5.5
	6	1330	Rain/Fine	0	0	0	20.9	22 / [0]0	5.5
	ч	1700	Rain/Fine	0	0	0	20.9	18 / (0/0	5.5
						-			
						Signature			Date

Field Operator:

<u>Name & Designation</u> Jock Lee (Competent Person [CO-310218]) Signature

13/12/2022

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area A	14/12/2022	0830	Rain/ Fine	0	0	0	20.9	17/010	5.5
	4	1330	Rain/Fine	0	0	0	20.9	20 1 [0]	5.5
	Л	1700	Rain/Fine	0	0	0	20.9	[8 / [01]	5.5
L	1	Name & Designati	.on	1	1	Signature			Date

Field Operator:

Jock Lee (Competent Person [CO-310218])

14/12/2022

Laboratory Staff:

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
	ж.

Sample location	Date of measurement	Sampling time	Weather	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area A	15/12/2022	0830	Rain/ Fine	0	0	0	20.9	17 1 1009	5.5
		1330	Rain/ Fine	0	0	0	20.9	20 1 6009	5.5
	(I	1700	Rain/ Fine	0	0	0	20.9	18 / [010	5.5
L	1	Name & Designati	on			Signature	-		Date

 γ

Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218])

15/12/2022

Laboratory Staff:

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	s Emission		
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area A	16/12/2022	0830	Rain/ Fine	0	0	0	20.9	16/1009	5.5
		1330	Rain/Fine	0	0	0	20.9	20 1 (010	5.5
	Л	1700	Rain/ Fine	0	0	0	20.9	17/1010	5.5
			-						
L	1	Name & Designati	on			Signature			Date
Field Operator:		Jock Lee (Compete	ent Person [CO-310)218])		X			16/12/2022

16/12/2022

Laboratory Staff:

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

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

					Monitoring	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement	Sampling time	Weather	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area A	17/12/2022	0830	Rain/ Fine	0	0	0	20.9	1/ 1/010	5.5
	N.	1330	Rain/ Fine	0	0	0	20.9	20 / (0/0	5.5
	ч	1700	Rain/ Fine	0	0	0	20.9	17/1009	5.5
								1 1	
		Name & Designati	on		1	Signature			Date

Y

Field Operator:

Jock Lee (Competent Person [CO-310218])

17/12/2022

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement	Sampling time	. Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area A	19/12/2022	0830	Rain/ Fine	0	0	0	20.9	17/10/0	5.5
		1330	Rain/Fine	0	0	0	20.9	2/ [0[0	5.5
	ч	1700	Rain/ Fine	0	0	0	20.9	17/ 1009	5.5
			1					, l	
								-	
		Name & Designati	lon	1		Signature			Date

Field Operator:

Jock Lee (Competent Person [CO-310218])

Y

19/12/2022

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)	
Area A	2002 2022	0830	Rain/ Fine	0	0	0	20.9	10/10/0	5.5	
	~ ~ ~	1330	Rain/Fine	0	0	0	20.9	20 / (0(0	5.5	
	Л	1700	Rain/Fine	0	0	0	20.9	17/1009	5.5	
								1 4 1		
		Nama & Designati				Signature			Date	

Field Operator:

Name & Designation

ngnature

Jock Lee (Competent Person [CO-310218])

20 (12/2022

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)			
Area A	2/12/2022	0830	Rain/ Fine	0	0	0	20.9	16. 1 1009	5.5			
	61	1330	Rain/Fine	0	0	0	20.9	20 / (009	5.5			
	Ч	1700	Rain/Fine	0	0	0	20.9	18/1010	5.5			
L		Name & Designati	on		Signature			Date				

Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218]) Signature V <u>Date</u> V/(2/2022

Laboratory Staff:

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	s Emission		
Sample location	Date of measurement	Sampling time	Weather	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area A	22/12/2022	0830	Rain/ Fine	0	0	0	20.9	17/1009	5.5
	y y	1330	Rain/ Fine	0	0	0	20.9	20/ 1009	5.5
	<u>ب</u>	1700	Rain/Fine	0	0	0	20.9	17/ 1009	5.5
	L	Name & Designati	on			Signature			Date
Field Operator: Jock Lee (Competent Person [CO-310218])						8			22/12/2022

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement	Sampling time	, Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area A	23/12/2022	0830	Rain/ Fine	0	0	0	20.9	17/1011	5.5
		1330	Rain/Fine	0	0	0	20.9	0/07 / 15	5.5
	14	1700	Rain/Fine	0	0	0	20.9	18/1010	5.5
	I	Name & Designati	<u>on</u>		<u>Signature</u> <u>D</u> :				Date
Field Onerstor		Jock I an (Compete	ant Person [CO_3]	+ Derson [CO 210218])					XI C

Field Operator:

Jock Lee (Competent Person [CO-510210])

23/12/2022

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement		Sampling time	Weather	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area A	m	12/2022	0830	Rain/ Fine	0	0	0	20.9	171 (010	5.5
			1330	Rain/ Fine	0	0	0	20.9	2/ / 10/0	5.5
		4	1700	Rain/Fine	0	0	0	20.9	171 (008	5.5
									, ,	
	1									
L							Cianatana			Date

Field Operator:

<u>Name & Designation</u> Jock Lee (Competent Person [CO-310218]) Signature

Date

24/12/2022

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area A	28/12/2022	0830	Rain/ Fine	0	0	0	20.9	(6 1 1000	5.5
	~	1330	Rain/Fine	0	0	0	20.9	20 1 1010	5.5
	4	1700	Rain/ Fine	0	0	0	20.9	161 (009	5.5
						Cignoturo			Date

Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218]) Signature

<u>Date</u> >8/12/2022

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement	Sampling time	, Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area A	29/12/2022	0830	Rain/ Fine	0	0	0	20.9	16 1 (010	5.5
	4	1330	Rain/ Fine	0	0	0	20.9	20 1 (009	5.5
	ч	1700	Rain/ Fine	0	0	0	20.9	16/ (007	5.5
						×			
	1	Name & Designati	on	L	Signature			Date	

Field Operator:

Jock Lee (Competent Person [CO-310218])

8

29/12/2022

Laboratory Staff:
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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)	
Area A	20/12/2022	0830	Rain/ Fine	0	0	0	20.9	16/(009	5.5	
		1330	Rain/Fine	0	0	0	20.9	20 / 60/0	5.5	
	1	1700	Rain/ Fine	0	0	0	20.9	16/010	5.5	
	1							P		
Name & Designation Signature										

Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218]) ignature

30/12/2022

Laboratory Staff:

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	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
Area A	31/12/2022	0830	Rain/ Fine	0	0	0	20.9	(6 / (0(0	5.5
	6	1330	Rain/Fine	0	0	0	20.9	20 / (0(0	5.5
		1700	Rain/Fine	0	0	0	20.9	17/1009	5.5
L		Name & Designati	<u>on</u>		L	Signature			Date
Field Operator:		Jock Lee (Compete	ent Person [CO-310)218])		б		3	51/12/2022

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
WPRTTA 4	1/12/2022	0830	Rain/ Fine	0	0	0	20.9	17/1010	3.7
	M	1330	Rain/ Fine	0	0	0	20.9	2//10/0	3.7
	7	1700	Rain/ Fine	0	0	0	20.9	(8 / (009	3.7
WPRTTA 5	s	0830	Rain/ Fine	0	0	0	20.9	17/ 10/0	3.6
	5	1330	Rain/ Fine	0	0	0	20.9	20/ (009	3.6
	v	1700	Rain/ Fine	0	0	0	20.9	18/ (009)	3.6
Name & Designation Signature									

Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218]) Signature X

1/12/2022

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)		
WPRTTA 4	2 12 2022	0830	Rain/Fine	0	0	0	20.9	17/1009	3.7		
	4	1330	Rain/Fine	0	0	0	20.9	21/1009	3.7		
	-	1700	Rain/Fine	0	0	0	20.9	(g / (olo	3.7		
WPRTTA 5	4	0830	Rain/Fine	0	0	0	20.9	17/ [010	3.6		
		1330	Rain/Fine	0	0	0	20.9	20/ [0]0	3.6		
	4	1700	Rain/ Fine	0	0	0	20.9	cg / [0]]	3.6		
						C'au atauna			Date		

Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218]) Signature

Date 2/12/2022

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)	
WPRTTA 4	3/12/2022	0830	Rain/ Fine	0	0	0	20.9	17/100	3.7	
	4.1.	1330	Rain/ Fine	0	0	0	20.9	2/ / 00	3.7	
	v	1700	Rain/ Fine	0	0	0	20.9	18/ (009)	3.7	
WPRTTA 5	4	0830	Rain/Fine	0	0	0	20.9	17/00	3.6	
	4	1330	Rain/Fine	0	0	0	20.9	20 / [00]	3.6	
	4	1700	Rain/ Fine	0	0	0	20.9	[ao] / B]	3.6	
L						C'au a france			Doto	

Field Operator:

<u>Name & Designation</u> Jock Lee (Competent Person [CO-310218]) Signature

<u>Date</u>

3/1/2022

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)	
WPRTTA 4	5/12/2022	0830	Rain/ Fine	0	0	0	20.9	17/1009	3.7	
		1330	Rain/ Fine	0	0	0	20.9	21/1009	3.7	
	ч	1700	Rain/ Fine	0	0	0	20.9	0] 1 81	3.7	
WPRTTA 5	Ci Ci	0830	Rain/ Fine	0	0	0	20.9	17/ (009	3.6	
	C,	1330	Rain/ Fine	0	0	0	20.9	21/ [0]0	3.6	
	Л	1700	Rain/ Fine	0	0	0	20.9	(7/ lob	3.6	
L	1	a second and a second							D	

Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218]) Signature

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Date

5/12/2022

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)		
WPRTTA 4	6/12/2022	0830	Rain/ Fine	0	0	0	20.9	17/1009	3.7		
		1330	Rain/ Fine	0	0	0	20.9	20/1009	3.7		
	V	1700	Rain/ Fine	0	0	0	20.9	18/100	3.7		
WPRTTA 5	ч	0830	Rain/Fine	0	0	0	20.9	17/10/0	3.6		
	()	1330	Rain/Fine	0	0	0	20.9	21/ 1010	3.6		
	~	1700	Rain/Fine	0	0	0	20.9	18/101	3.6		
			/								
									Date		

Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218]) Signature 8

Date b/12/2022

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)	
WPRTTA 4	2/12/2022	0830	Rain/ Fine	0	0	0	20.9	17/1010	3.7	
	2	1330	Rain/ Fine	0	0	0	20.9	21/1010	3.7	
	~	1700	Rain/ Fine	0	0	0	20.9	(8/101)	3.7	
WPRTTA 5	~	0830	Rain/ Fine	0	0	0	20.9	16/ (009	3.6	
	Л	1330	Rain/ Fine	0	0	0	20.9	20/ [00]	3.6	
	м	1700	Rain/ Fine	0	0	0	20.9	18/1010	3.6	
				4						
	5	Name & Designati	on			Signature			Date	
Field Operator:		Jock Lee (Compete	ent Person [CO-310)218])		8		2	7/12/2022	

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
WPRTTA 4	8/12/2022	0830	Rain/ Fine	.0	0	0	20.9	(7 / (old	3.7
	-1	1330	Rain/ Fine	0	0	0	20.9	20 / 1009	3.7
	9	1700	Rain/ Fine	0	0	0	20.9	18 / [009	3.7
WPRTTA 5	ч	0830	Rain/ Fine	0	0	0	20.9	17 / (00	3.6
	2	1330	Rain/ Fine	0	0	0	20.9	2(/ 100	3.6
	~	1700	Rain/ Fine	0	0	0	20.9	18/ [01]	3.6
Name & Designation				Signature			Date		
Field Operator: Jock Lee (Competent Person [CO-310218])			\sim			8/12/2022			

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
WPRTTA 4	9/12/2022	0830	Rain/ Fine	0	0	0	20.9	17/1010	3.7
	u u	1330	Rain/ Fine	0	0	0	20.9	21/ (010	3.7
	ч	1700	Rain/ Fine	0	0	0	20.9	17/1009	3.7
WPRTTA 5	1.54	0830	Rain/ Fine	0	0	0	20.9	17/ 1009	3.6
	U U	1330	Rain/ Fine	0	0	0	20.9	20/ 60/0	3.6
	N	1700	Rain/ Fine	0	0	0	20.9	17/ (0)0	3.6
									-
		Name & Designati	on			Signature			Date
Field Operator:		Jock Lee (Compete	ent Person [CO-310	0218])		8		7	12/2022

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)			
WPRTTA 4	(0/12/2022	0830	Rain/ Fine	0	0	0	20.9	17/009	3.7			
	~ ~	1330	Rain/ Fine	0	0	0	20.9	21/1000	3.7			
	-	1700	Rain/ Fine	0	0	0	20.9	17/100	3.7			
WPRTTA 5	~	0830	Rain/ Fine	0	0	0	20.9	17/ 1000	3.6			
	~	1330	Rain/ Fine	0	0	0	20.9	201 (010	3.6			
	~	1700	Rain/ Fine	0	0	0	20.9	18/009	3.6			
								1				
						4						
									D			

Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218]) Signature

2.

Date

10/12/2022

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)	
WPRTTA 4	12/12/2022	0830	Rain/ Fine	0	0	0	20.9	16/1011	3.7	
		1330	Rain/ Fine	0	0	0	20.9	20/1010	3.7	
	٦	1700	Rain/ Fine	0	0	0	20.9	17/ [010	3.7	
WPRTTA 5	4	0830	Rain/ Fine	0	0	0	20.9	16/1010	3.6	
	4	1330	Rain/Fine	0	0	0	20.9	20/ (00P	3.6	
	4	1700	Rain/ Fine	0	0	0	20.9	18/ (009	3.6	
								l		
		(a.)								
							•		Data	

Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218]) Signature

Date

(2/12/2022

Laboratory Staff:

Checked by:

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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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)		
WPRTTA 4	13/12/2022	0830	Rain/ Fine	0	0	0	20.9	17/1010	3.7		
	i u	1330	Rain/ Fine	0	0	0	20.9	20/100	3.7		
	ч	1700	Rain/ Fine	0	0	0	20.9	18/1009	3.7		
WPRTTA 5	5	0830	Rain/ Fine	0	0	0	20.9	17/10/0	3.6		
	4	1330	Rain/ Fine	0	0	0	20.9	2/1 (01)	3.6		
	<u>s</u>	1700	Rain/Fine	0	0	0	20.9	(8/ LOLI	3.6		
								Ū			
Name & Designation						Signature			Date		
Field Operator: Jock Lee (Competent Person [CO-310218])			0218])		$\boldsymbol{\gamma}$		t	3/12/2022			

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)	
WPRTTA 4	14/12/2022	0830	Rain/Fine	0	0	0	20.9	17/1009	3.7	
	i i	1330	Rain/Fine	0	0	0	20.9	20/1009	3.7	
	5	1700	Rain/Fine	0	0	0	20.9	18 / 1010	3.7	
WPRTTA 5	6	0830	Rain/ Fine	0	0	0	20.9	16/100	3.6	
	N	1330	Rain/Fine	0	0	0	20.9	20 / (010	3.6	
	Ň	1700	Rain/ Fine	0	0	0	20.9	17/ [01]	3.6	
		Nome & Designati	07			Signature			Date	

Field Operator:

Jock Lee (Competent Person [CO-310218])

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14/12/2022

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
WPRTTA 4	15/12/2022	0830	Rain/ Fine	0	0	0	20.9	17/00	3.7
	C.	1330	Rain/ Fine	0	0	0	20.9	21/00	3.7
	и	1700	Rain/ Fine	0	0	0	20.9	18 1 5009	3.7
WPRTTA 5	4	0830	Rain/ Fine	0	0	0	20.9	17/ 1009	3.6
	4	1330	Rain/ Fine	0	0	0	20.9	20/ 1009	3.6
	\$	1700	Rain/ Fine	0	0	0	20.9	18/100	3.6
							5-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		
					L	<u> </u>	•		D

Field Operator:

<u>Name & Designation</u> Jock Lee (Competent Person [CO-310218]) Signature

Date

15/12/2022

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
WPRTTA 4	10/12/2022	0830	Rain/ Fine	0	0	0	20.9	(0/0/0	3.7
	y y	1330	Rain/Fine	0	0	0	20.9	20 1 600	3.7
	7	1700	Rain/ Fine	0	0	0	20.9	(7 1 [00]	3.7
WPRTTA 5	U U	0830	Rain/Fine	0	0	0	20.9	(6 / (0))	3.6
	~	1330	Rain/ Fine	0	0	0	20.9	201 100	3.6
	S	1700	Rain/ Fine	0	0	0	20.9	(8 / (00)	3.6
								1	
		N. P. Desimuti			L	Signature			Date

Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218]) Signature

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16/12/2022

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
WPRTTA 4	17/12/2022	0830	Rain/ Fine	0	0	0	20.9	171000	3.7
	14	1330	Rain/ Fine	0	0	0	20.9	21/10/0	3.7
	5	1700	Rain/ Fine	0	0	0	20.9	(8/ 1009	3.7
WPRTTA 5	4	0830	Rain/ Fine	0	0	0	20.9	(71011	3.6
	5	1330	Rain/ Fine	0	0	0	20.9	20/100	3.6
	4	1700	Rain/Fine	0	0	0	20.9	(7/100	3.6
			-						
	L								D

Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218]) Signature

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<u>Date</u> 17/12/2022

Laboratory Staff:

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	s Emission		
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
WPRTTA 4	19/12/2022	0830	Rain/ Fine	0	0	0	20.9	17/1009	3.7
	N	1330	Rain/ Fine	0	0	0	20.9	21/(009	3.7
	ú	1700	Rain/ Fine	0	0	0	20.9	17/10/0	3.7
WPRTTA 5	4	0830	Rain/ Fine	0	0	0	20.9	17/01	3.6
	5	1330	Rain/ Fine	0	0	0	20.9	20/10/0	3.6
	Ś	1700	Rain/ Fine	0	0	0	20.9	8/ (010	3.6
		Nama & Decignati	on			Signature	•		Date

Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218]) Signature

<u>Date</u> (9 | 12 | 2022

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Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
WPRTTA 4	20/12/2022	0830	Rain/ Fine	0	0	0	20.9	18 / 10 (0	3.7
	ų	1330	Rain/Fine	0	0	0	20.9	~ / / (0 (0	3.7
	Ś	1700	Rain/Fine	0	0	0	20.9	17/ 1001	3.7
WPRTTA 5	N5	0830	Rain/Fine	0	0	0	20.9	17/ [00]	3.6
	~	1330	Rain/Fine	0	0	0	20.9	21 / loop	3.6
	~	1700	Rain/ Fine	0	0	0	20.9	(8/ 1010	3.6
		Name & Designati	on			Signature			Date
Field Operator:		Jock Lee (Compete	ent Person [CO-31	0218])		Z		٢	0/12/2022.

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
WPRTTA 4	212/2022	0830	Rain/ Fine	0	0	0	20.9	17/1010	3.7
	- C L	1330	Rain/Fine	0	0	0	20.9	20 / [0/0	3.7
	ч	1700	Rain/Fine	0	0	0	20.9	17/ 1009	3.7
WPRTTA 5	~	0830	Rain/Fine	0	0	0	20.9	16/010	3.6
	ч	1330	Rain/Fine	0	0	0	20.9	20 / 10/0	3.6
	v	1700	Rain/Fine	0	0	0	20.9	71 6011	3.6
			1			0.			Data

Field Operator:

<u>Name & Designation</u> Jock Lee (Competent Person [CO-310218]) Signature

<u>Date</u>

> 1/12/2022

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
WPRTTA 4	22/12/2022	0830	Rain/ Fine	0	0	0	20.9	16/100	3.7
	1 4	1330	Rain/ Fine	0	0	0	20.9	20/1009	3.7
	V	1700	Rain/Fine	0	0	0	20.9	[7/ 1009	3.7
WPRTTA 5	L.	0830	Rain/ Fine	0	0	0	20.9	(6/ (010	3.6
	4	1330	Rain/Fine	0	0	0	20.9	20/ 10/0	3.6
	~	1700	Rain/Fine	0	0	0	20.9	(7/ 501)	3.6
		J							D

Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218]) Signature

8

<u>Date</u>

22/12/2022

Laboratory Staff:

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

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

					Monitoring	g wells/ Surface Gas	Emission		
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
WPRTTA 4	23/12/2022	0830	Rain/Fine	0	0	0	20.9	171000	3.7
	~	1330	Rain/ Fine	0	0	0	20.9	21/1008	3.7
	м	1700	Rain/ Fine	0	0	0	20.9	18/100P	3.7
WPRTTA 5	ч	0830	Rain/Fine	0	0	0	20.9	17/100	3.6
	5	1330	Rain/ Fine	0	0	0	20.9	22/ (01)	3.6
	۲	1700	Rain/ Fine	0	0	0	20.9	18/ [01]	3.6
L		Name & Designati	01			Signature			Date

Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218]) Date 23/12/2022

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)	
WPRTTA 4	24/12/2022	0830	Rain/ Fine	0	0	0	20.9	16/009	3.7	
	~	1330	Rain/ Fine	0	0	0	20.9	20 / 1009	3.7	
	ч	1700	Rain/ Fine	0	0	0	20.9	17100	3.7	
WPRTTA 5	-	0830	Rain/ Fine	0	0	0	20.9	16 / 1009	3.6	
	4	1330	Rain/Fine	0	0	0	20.9	20/ 1010	3.6	
	4	1700	Rain/ Fine	0	0	0	20.9	17/ (010	3.6	
	25									
									Data	

Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218]) Signature

Date

24/12/2022

Laboratory Staff:

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	s Emission		
ate of surement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
12 2022	0830	Rain/ Fine	0	0	0	20.9	16/1009	3.7
4	1330	Rain/Fine	0	0	0	20.9	20 1 [009	3.7
ч	1700	Rain/ Fine	0	0	0	20.9	17/610	3.7
4	0830	Rain/ Fine	0	0	0	20.9	(7/ (0/0	3.6
4	1330	Rain/ Fine	0	0	0	20.9	201 [01]	3.6
5	1700	Rain/ Fine	0	0	0	20.9	(7/ (01)	3.6
	$\frac{2}{2} \frac{2}{2} \frac{2}{2} \frac{2}{2} \frac{2}{3} \frac{2}$	Sampling time rement Sampling time r 2027 0830 q 1330 q 0830 q 1330 q 1330 q 1700	Sampling time Weather condition vor 0830 Rain/Fine 1330 Rain/Fine 1700 Rain/Fine 1330 Rain/Fine	Sampling time Weather condition Balance gas (%) v 0830 Rain/ Fine 0 1330 Rain/ Fine 0 1700 Rain/ Fine 0 1330 Rain/ Fine 0	Sampling timeWeather conditionBalance gas (%)Flammable gas (methane %)120270830Rain/ Fine0011330Rain/ Fine0011700Rain/ Fine0010830Rain/ Fine0011330Rain/ Fine0011330Rain/ Fine0011700Rain/ Fine0011700Rain/ Fine0011700Rain/ Fine00	Sampling timeWeather conditionBalance gas (%)Flammable gas (methane %)Carbon dioxide(%)12020830Rain/Fine0001330Rain/Fine0001700Rain/Fine0001330Rain/Fine0001330Rain/Fine0001700Rain/Fine0001330Rain/Fine0001700Rain/Fine0001700Rain/Fine0001700Rain/Fine0001700Rain/Fine000	Sampling time Weather condition Balance gas (%) Flammable gas (methane %) Carbon dioxide(%) Oxygen (%) 1 0830 Rain/Fine 0 0 0 20.9 1 1330 Rain/Fine 0 0 0 20.9 1 1700 Rain/Fine 0 0 0 20.9 1 1330 Rain/Fine 0 0 20.9 1 1330 Rain/Fine 0 0 20.9 1 1700 Rain/Fine 0 0 0 20.9 1 1 1 1 1 1 1	Sampling time Weather condition Balance gas (%) Flammable gas (methane %) Carbon dioxide(%) Oxygen (%) Temp (oC) / Pressure (mbar) 1 0830 Rain/Fine 0 0 0 20.9 (6 / (o of Pressure (mbar)) 1330 Rain/Fine 0 0 0 20.9 20 / (o of Pressure (mbar)) 1700 Rain/Fine 0 0 0 20.9 17 / (o of Pressure (mbar)) 1700 Rain/Fine 0 0 0 20.9 17 / (o of Pressure (mbar)) 1700 Rain/Fine 0 0 0 20.9 17 / (o of Pressure (mbar)) 1700 Rain/Fine 0 0 0 20.9 17 / (o of Pressure (mbar)) 1700 Rain/Fine 0 0 0 20.9 17 / (o of Pressure (mbar)) 1700 Rain/Fine 0 0 0 20.9 17 / (o of Pressure (mbar)) 1700 Rain/Fine 0 0 0 20.9 17 / (o of Pressure)

Field Operator:

<u>Name & Designation</u> Jock Lee (Competent Person [CO-310218]) Signature

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<u>Date</u>

28/12/2022

Laboratory Staff:

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	g wells/ Surface Gas	s Emission		
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)
WPRTTA 4	25 12 2022	0830	Rain/ Fine	0	0	0	20.9	17 1 (009	3.7
	ч Ч	1330	Rain/ Fine	0	0	0	20.9	20 / [0]0	3.7
	ч	1700	Rain/ Fine	0	0	0	20.9	18/1010	3.7
WPRTTA 5	ч	0830	Rain/ Fine	0	0	0	20.9	171,1009	3.6
	4	1330	Rain/ Fine	0	0	0	20.9	20 1 1009	3.6
	N	1700	Rain/ Fine	0	0	0	20.9	171 (010	3.6
Name & Designation <u>Signature</u> <u>Date</u>									Date

Field Operator:

<u>Name & Designation</u> Jock Lee (Competent Person [CO-310218])

V

<u>Date</u> 29/12/2022

Laboratory Staff:

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 (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)		
WPRTTA 4	30/12/2022	0830	Rain/ Fine	0	0	0	20.9	17/10/0	3.7		
	ч	1330	Rain/ Fine	0	0	0	20.9	2/1/0/0	3.7		
	· 4	1700	Rain/ Fine	0	0	0	20.9	18 / [00]	3.7		
WPRTTA 5	٦	0830	Rain/ Fine	0	0	0	20.9	17/1009	3.6		
	UL.	1330	Rain/ Fine	0	0	0	20.9	20/ 1009	3.6		
	Ч	1700	Rain/ Fine	0	0	0	20.9	18/ [0]0	3.6		
									Data		

Field Operator:

Name & Designation Jock Lee (Competent Person [CO-310218]) Signature

8

Date 30/ 12/2022

Laboratory Staff:

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 Es						s Emission				
Sample location	Date of measurement	Sampling time	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (oC) / Pressure (mbar)	Remark Depth (m)	
WPRTTA 4	31/12/2022	0830	Rain/ Fine	0	0	0	20.9	(7/1011	3.7	
	~	1330	Rain/ Fine	0	0	0	20.9	20/1010	3.7	
	ч	1700	Rain/ Fine	0	0	0	20.9	18/1010	3.7	
WPRTTA 5	4	0830	Rain/ Fine	0	0	0	20.9	16/ (009	3.6	
	4	1330	Rain/ Fine	0	0	0	20.9	20/ (0/0	3.6	
	4	1700	Rain/Fine	0	0	0	20.9	(8 / (010	3.6	
		2								
Name & Designation						Date				
Field Operator: Jock Lee (Competent)			ent Person [CO-310218])					31/12/2022		

Laboratory Staff:



Appendix K

Complaint Log and Regulatory Compliance Proforma

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Table K-1 Statistical Summary of Environmental Complaints

Reporting Period	Environmental Complaint Statistics						
	Frequency	Cumulative	Complaint Nature				
1 – 31 December 2022	0	3	N/A				

Table K-2 Statistical Summary of Environmental Summons

Doporting Dovied	Environmental Summons Statistics						
Reporting renou	Frequency	Cumulative	Details				
1 – 31 December 2022	0	0	N/A				

Table K-3 Statistical Summary of Environmental Prosecution

Donosting Dovied	Environmental Prosecution Statistics						
Reporting Period	Frequency	Cumulative	Details				
1 – 31 December 2022	0	0	N/A				

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Site Inspection Proforma

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WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection Date: 6	12 (20	2)	Inspected by:	ET: Contractor:	word Chan Ken Min	WSD: IEC:	/	
Inspection Time: DT	-30 - 11-	00						
Weather								
Condition	Sunny	Fine	Overcast	Drizzle	Rain	Storm	Наzy	
Temperature	21 C		Humidity	High	Moderate	Low		
Wind	Calm	Light	Breeze	Strong		·····		

		N/A	Yes	No	Photo/Remarks
0.00 0.01	General Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?				
0.02	Is ET Leader's log-book kept readily available for inspections?				
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?		\checkmark		
1.02	Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty construction works for dust suppression?	\square			
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?	\square			-
1.04	Are wheel-washing facilities with high-pressure water jets provided at all site exits?	\square			60.5 0 Ma
1.05	Is wheel-washing provided to all vehicles leaving the site?	\checkmark			
1.06	Are road section near the site exit free from dusty material?		\checkmark		-
1.07	Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement?	Ń			
1.08	Are water spraying provided immediately prior to any loading or transfer of dusty materials?	\square			
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?		\square		
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?		\checkmark		
1.12	Does the operation of plants on site free form dark smoke emission?		Ń		
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?		\checkmark		
1.14	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?				





		N/A	Yes	No	Photo/Remarks
1.15	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered				
	areas?				
1.16	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas				
	accessible by the public?				
1.17	Is open burning prohibited?		\checkmark		
2.00	Construction Noise (Airborne)				
2.01	Are quiet plants adopted on site?		\square		
2.02	Are the PMEs operating on site well-maintained to minimize the generation of excessive noise?				
2.03	Are plants throttled down or turned off when not in use?		\square		
2.04	Are the plants known to emit noise strongly in one direction oriented to face away from				
2.05					
2.05	Are moveable barriers provided to screen NSRs from plant or noisy operations?	\checkmark			
2.06	Are silencers, mufflers and enclosures provided to plants?	Ń			
2.07	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?		Ń		
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?	\square			
2.10	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?	i/			
2.11	Are valid noise emission label(s) affixed to all air compressors operating on site?	\int			
2.12	Are all construction noise permit(s) applied for percussive piling work?	\checkmark			
2.13	Are construction noise permit(s) applied for general construction works during restricted hours?		\checkmark		
2.14	Are valid construction noise permit(s) displayed at all vehicular exits?		\checkmark		
3.00	Water Quality		ΓÍ		
3.01	is effluent discharge license obtained for wastewater discharge from site?		\bigvee		
3.02	is effluent discharged according to the effluent discharge license?				003.004
3.03	s wastewater discharge from site properly treated prior to discharge?				004
3.04	Are perimeter channels provided to intercept storm runoff from outside the site?	\checkmark			
3.05	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to remove sand/silt particles from nupoff?				
3.06	s surface runoff diverted to endimentation facilities?	/			
2.00	s survey ranon diverted to seamentation facilities:	\checkmark			





	Contract No.: 13/WSD/16 Mainlaying in 1	seung Kw			
		N/A	Yes	No	Photo/Remarks
3.07	Is the drainage system properly maintained?		\checkmark		Ros
3.08	Are construction works carefully programmed to minimize soil excavation works during rainy seasons?	\checkmark			
3.09	Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion?	\checkmark			
3.10	Are temporary access roads protected by crushed gravel?	\checkmark			
3.11	Are exposed slope surface properly protected?				,
3.12	Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation?				
3.13	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?	\square			
3.14	Is runoff from wheel-washing facilities avoided?	\checkmark			
3.15	ls oil leakage or spillage prevented?				Bol
3.16	Are there any measures to prevent the release of oil and grease into the storm drainage system?	\checkmark			
3.17	Are the oil interceptors/ grease traps properly maintained?	\checkmark			
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?		\checkmark		
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?		\checkmark		
3.23	Is concrete washing water properly collected and treated prior to discharge?				
4.00 4.01	Waste Management 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?		\checkmark		
4.03	Is chemical waste separated from other waste and collected by a licensed chemical waste collector?	\checkmark			
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?				
		L			1. 1





Contract No.:	13/WSD/16 Ma	inlaying in	Tseung Kwan O
contract 110.	15/ 10 1012	umaying m	iscung Kwan O

		N/A	Yes	No	Photo/Remarks
4.06	Are all containers for chemical waste properly labelled?		\checkmark		
4.07	Is drip tray provided for chemical storage?				002
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?				
4.10	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?		\checkmark		
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?		\checkmark		
4.12	Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?				
4.13	Are sufficient general refuse disposal/collection points provided on site?		ĸ/		
4.14	Is general refuse disposed of properly and regularly?		\checkmark		
4.15	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?	\checkmark			
4.16	Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation?		\square		
4.17	Are C&D wastes sorted on site?		\square		
4.18	Are C&D waste disposed of properly?		\checkmark		
4.19	Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste?		\square		
4.20	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?		\checkmark		
4.21	Are the construction materials stored properly to minimize the potential for damage or contamination?		\square		
4.22	Is a dumping license obtained to deliver public fill to public filling areas?		\checkmark		
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?			\square	
5.03	Is construction light oriented away from the sensitive receivers?			\square	
5.04	Is grass hydroseeding provided to slopes as soon as the completion of works?	\square			
				<i>g</i>	





		N/A	Yes	No	Photo/Remarks
5.05	Are damages to trees outside site boundary due construction works avoided?		\checkmark		
5.06	Is 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?				Rol
5.08	Are surgery works carried out for damaged trees?	\square			
6.00 6.01	Ecology Is site runoff properly treated to prevent any silly runoff?		\checkmark		
6.02	Are silt trap installed and well-maintained?	\square			
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?		\bigtriangledown		



Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Observation: Orl leakge shall be avoided and prevented form excavitor Doli and other equipment. Contractor was reminded to repair the equipment immediately. (Pitoi) 002: Chemical container should be storing stored with drip tray. (Ritx) 003: Polluted water in drip tray and rainwater in trench shall be cleared and treaded before discharge. (RiLOI) 004: Contractor was required to review the apacity of selimentation to the ensure the discharge was comply to with with Reminder: Rol. Contractor was reminded to avoid stadylie construction meterials in the protection zone Ros a Catractor was reminded to dear the drange of regularly to avoid accumumber of certiment. Signatures: FT Contractor's WSD's IEC's Representative Representative Representative Representative (Name: for (Chon) (Name: Ken Ma) (Name: An Win Tale (Name:)

sustainability

Member of the Aurecon Group




WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection Date: $\frac{15}{14}$	12 /202	<u>))</u>	Inspected by:	ET: <u>Ha</u> Contractor: <u>M</u>	kenta	WSD: <u>Mr.</u> IEC:	K. C. 182
Weather		7					
Condition	Sunny	V/Fine	Overcast	Drizzle	Rain	Storm	Hazy
Temperature	C C		Humidity	High	Moderate	Low	
Wind	Calm	Light	Breeze	Strong			

		N/A	Yes	No	Photo/Remarks
0.00 0.01	General Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?		\checkmark		
0.02	Is ET Leader's log-book kept readily available for inspections?		\checkmark		
1.00 1.01	Construction Dust Are dusty materials, such as excavated materials, building debris and construction materials, and exposed earth surface properly covered to prevent dust emission?		\square		
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?	\square			
1.04	Are wheel-washing facilities with high-pressure water jets provided at all site exits?				
1.05	Is wheel-washing provided to all vehicles leaving the site?	\Box			
1.06	Are road section near the site exit free from dusty material?		\checkmark		
1.07	Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement?	\Box			
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?		\square		
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?		\square		
1.12	Does the operation of plants on site free form dark smoke emission?		Ń		
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?		\checkmark		
1.14	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?	$\overline{\checkmark}$			





		iscung it.	van O		
		N/A	Yes	No	Photo/Remarks
1.15	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?	\checkmark			
1.16	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?	\square			
1.17	Is open burning prohibited?		\checkmark		
2.00	Construction Noise (Airborne)				
2.00	Are quiet plants adopted on site?		\checkmark		
2.02	Are the PMEs operating on site well-maintained to minimize the generation of excessive noise?				
2.03	Are plants throttled down or turned off when not in use?		$\overline{\checkmark}$		
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?	\square			
2.06	Are silencers, mufflers and enclosures provided to plants?	\square			
2.07	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?		\square		
2.08	Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?	\square			
2.09	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?	\square			
2.10	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?	\bigvee			
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?		\checkmark		
2.13	Are construction noise permit(s) applied for general construction works during restricted hours?		\bigvee		-
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?				
5.02	is errouent discharged according to the errouent discharge license?		\square		
3.03	s wastewater discharge from site properly treated prior to discharge?		\checkmark		
3.04	Are perimeter channels provided to intercept storm runoff from outside the site?	\checkmark			
3.05	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to remove sand/silt particles from runoff?		\checkmark		
3.06	s surface runoff diverted to sedimentation facilities?	\checkmark			





		N/A	Yes	No	Photo/Remarks
3.07	Is the drainage system properly maintained?		\checkmark		ROB
3.08	Are construction works carefully programmed to minimize soil excavation works during rainy seasons?	\checkmark			
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?	\Box			-
3.11	Are exposed slope surface properly protected?	\Box			
3.12	Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation?	\checkmark			
3.13	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?	\checkmark			
3.14	Is runoff from wheel-washing facilities avoided?				
3.15	Is oil leakage or spillage prevented?	,	\checkmark		
3.16	Are there any measures to prevent the release of oil and grease into the storm drainage system?	\checkmark			
3.17	Are the oil interceptors/ grease traps properly maintained?	\checkmark			
3.18	Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams?		\checkmark		
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?		\checkmark		
3.20	Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains?		\checkmark		
3.21	Are sufficient chemical toilets provided on site to handle sewage from construction work force?		\square		
3.22	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors?		\bigtriangledown		
3.23	Is concrete washing water properly collected and treated prior to discharge?	1			
4.00 4.01	Waste Management Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills?		\square		
4.02	Is a recording system implemented to record the amount of wastes generated, recycled and disposed of?		\checkmark		
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?	\square			
			1000		and the second





_	Contract No.: 15/ WSD/16 Mainlaying in	Iseung K	wan O		
		N/A	Yes	No	Photo/Remarks
4.06	Are all containers for chemical waste properly labelled?		\bigtriangledown		
4.07	Is drip tray provided for chemical storage?				Ool
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?				
4.10	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?		$\overline{\square}$	\square	
411	Is an impermeable floor and hunding of consolitations and hunding of consolitation of the second s				
	largest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide?		\square		
4.12	Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?				
4.13	Are sufficient general refuse disposal/collection points provided on site?				
4.14	Is general refuse disposed of properly and regularly?		\checkmark		202
4.15	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?		\square		
4.16	Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation?			\Box	
4.17					
4.17	Are C&D wastes sorted on site?		\bigtriangledown		
4.18	Are C&D waste disposed of properly?		\square		
4.19	Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste?		\square		
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?				
4.22	s a dumping license obtained to deliver public fill to public filling areas?		\checkmark		
5.00	andscane and Visual				
5.01	Are Is site hoarding provided?	\checkmark			
5.02 4	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?		\checkmark		
5.03 I	s construction light oriented away from the sensitive receivers?	\square			
5.04 1	s grass hydroseeding provided to slopes as soon as the completion of works?	$\overline{\checkmark}$			





		N/A	Yes	No	Photo/Remarks
5.05	Are damages to trees outside site boundary due construction works avoided?				
5.06	Is 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?		\checkmark		Rol
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?		\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?		\checkmark		
7.00 7.01	Overall Is the EM&A properly implemented in general?				



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Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: Observation 2 Ool: Drip tray shall be provided for chemical storage. (WPRI) Reminder: Rol² Contractor was reminded to remove the construction materials near the retained tree. [WPRI] Rol² General refuse shall be disposed of properly. (WPRI) ROl³ Contractor was reminded to clear the sediment in Storm drain and imporve the mitigation measure near the storm dram (WPRI Signatures: ET Contractor's WSD's IEC's Representative Representative Representative Representative (Name: Ken Ma (Name: 18t (Name: Frugel Chan) (Name:)





	WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST								
Inspection Date:	<u>2/12/20</u>))	Inspected by:	ET: Contractor:	ward Chan Len Ma.	WSD: <u>/</u> IEC:	Yr. K.	í Kenz	-
Inspection Time:	M-30 - 10:	.30					<u></u>		
Weather	/								
Condition	Sunny	Fine	Overcast	Drizzle	Rain	Storn	n	Hazy	
Temperature	18 °c		Humidity	High	Moderate	1/Low			
Wind	Calm	Light	Breeze	Strong					
						N/A	Yes	No	Photo/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?			
0.02	Is ET Leader's log-book kept readily available for inspections?		\square	
1.00	Construction Dust		- Z	
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?	\checkmark		
1.04	Are wheel-washing facilities with high-pressure water jets provided at all site exits?	\square		
1.05	Is wheel-washing provided to all vehicles leaving the site?	\square		
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?	\square		
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		\Box	
	leaving the site?		\mathbf{V}	
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			
1.10	site?			
1.12	Does the operation of plants on site free form dark smoke emission?		\Box	
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?		\square	
1.14	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3			ALC: ALC: ALC: ALC: ALC: ALC: ALC: ALC:
	sides?			





		N/A	Yes	No	Photo/Remarks
1.15	Are de bagging botching and mixing processor of bagged converting inductional devices				
1.15	areas?	\checkmark			
1.16	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas	ΓÍ			
	accessible by the public?	\checkmark			
1.17	Is open burning prohibited?		$\overline{\mathbf{N}}$		
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?		\square		
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?	\checkmark			
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?	\square			
2.09	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to				
	nearby sensitive receivers?	\mathbf{V}			
2.10	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?			\Box	
2.11	Are valid noise emission label(s) affixed to all air compressors operating on site?	$\overline{\bigwedge}$			
2.12	Are all construction noise permit(s) applied for percussive piling work?		$\overline{\checkmark}$		
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?		$\overline{\checkmark}$		
3.04	Are perimeter channels provided to intercept storm runoff from outside the site?	\square			
3.05	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to				
	remove sand/silt particles from runoff?		\bigvee		
3.06	Is surface runoff diverted to sedimentation facilities?	\checkmark			





Contract No.:	13/WSD/16	Mainlaying in	Tseung Kwan O
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		N/A	Yes	No	Photo/Remarks
3.07	Is the drainage system properly maintained?				
3.08	Are construction works carefully programmed to minimize soil excavation works during rainy seasons?	\Box			
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	Are exposed slope surface properly protected?	\square			
3.12	Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation?				
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?				
3.15	Is oil leakage or spillage prevented?		\checkmark		
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?		$\overline{\checkmark}$		
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?		\square		
3.21	Are sufficient chemical toilets provided on site to handle sewage from construction work force?		\square		
3.22	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors?		\checkmark		
3.23	Is concrete washing water properly collected and treated prior to discharge?	\Box			
4.00 4.01	Waste Management Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills?		\checkmark		
4.02	is a recording system implemented to record the amount of wastes generated, recycled and disposed of?		\checkmark		
4.03	s chemical waste separated from other waste and collected by a licensed chemical waste collector?	\square			
4.04	Are trip tickets for chemical waste disposal available for inspection?	Ń			
4.05	s chemical waste reused and recycled on site as far as practicable?	\checkmark			





Contract No.:	13/WSD/16	Mainlaying in	Tseung Kwan	0
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1	Contract Non 10/ Wob/10 Mannaying in 1	N/A	Yes	No	Photo/Remarks
4.06	Are all containers for chemical waste properly labelled?		$\overline{\mathcal{A}}_{/}$		
4.07	Is drip tray provided for chemical storage?		\checkmark		
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?	\square			
4.10	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?		\checkmark		
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?		\square		
4.12	Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?	Ń			
4.13	Are sufficient general refuse disposal/collection points provided on site?		\square		
4.14	Is general refuse disposed of properly and regularly?		\checkmark		
4.15	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?		\square		
4.16	Are individual collectors for aluminum cans, plastic bottles and packaging material and office				
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?		\checkmark		
4.20	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?		١ <u>ـ</u>		
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?		\checkmark		
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?		\square		
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?				





	Contract No. 15/ WSD/10 Maimaying in 1	scung itv	van U		
		N/A	Yes	No	Photo/Remarks
5.05	Are damages to trees outside site boundary due construction works avoided?		\checkmark		
5.06	Is 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?		\checkmark		Roz
5.08	Are surgery works carried out for damaged trees?	\square			
6.00	Ecology				
6.01	Is site runoff properly treated to prevent any silly runoff?		L_		
6.02	Are silt trap installed and well-maintained?	\checkmark			
6.03	Are stockpiles properly covered to avoid generating silty runoff?		\checkmark		
6.04	Are construction works restricted to works area which are clearly defined?		\checkmark		
7.00	Overall				
7.01	Is the EM&A properly implemented in general?				



Rem	ark / Follow up of Observa	ation(s) and Non-co	mpliance(s	s) of Last Weekly Sit	e Inspectio	on:		
k	Reminder							
4	2011 Contractor	Was	remina	ded to reg	bre	the Eled	NRMI	X]]] I IPJA
R	521 Stagnart	Water	71L 0	brip tray	gual	be clear	non (1	2050 [. (100)
R	031 Contractor protection	wag 20ne	remin ac f	del to	piope	r mainteir	r the	Thee
	,							
	Signatures:							
		C				ma		
e	E1 Representative	Contractor's Representative		wSD's Representative		IEC's Representative		
	Xant	M		FIR				
	(Name Louge Char)	(Name: Ken	Мц)	(Name:	Sur.)	(Name:)	

sustainability

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WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspectio	n Date: <u>28/12/2012</u> Inspected by: ET: Jacky Leing Contractor: <u>Mr. 4.0</u> Work	WSD: IEC:	Mr. Alex Mr. Louis	uhn s Kum	
Inspectio	n Time: 14200 - 15200				
Weather			_	-]	
Conditio	n Sunny Fine Overcast Drizzle Rain	Stor	m L	Hazy	
Temper	ature 18 C Humidity High Moderate	Low	r		
Wind	Calm Light Breeze Strong				
Willd					
		N/A	Yes	No	Photo/Remarks
0.00	General				
0.01	is the current Environmental Permit displayed conspicuously at all vehicle site			\square	
0.01	entrances/exits for public's information at any time?				
0.02					
0.02	Is ET Leader's log-book kept readily available for inspections?				
	Construction Dust				
1.00	Construction Dust		\Box		
1.01	Are dusty materials, such as excavated materials, building debits and construction		\vee		
	materials, and exposed earth surface property covered to prevent dust emission:				
1.02	Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty	$\overline{\mathbf{x}}$			
	construction works for dust suppression?				
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?	\Box			
		\checkmark			
1.04	Are wheel-washing facilities with high-pressure water jets provided at all site exits?	$\overline{\mathbf{\Lambda}}$			
1.05	Is wheel-washing provided to all vehicles leaving the site?	$\overline{\mathbf{A}}$			
1.06	Are road section near the site exit free from dusty material?		$\langle \rangle$		_
1.07	Any all main hard roads inside the site payed or sprayed with water to minimize dust				
1.07	Are an main nam todus miside the site paved of sprayed with water to minimum part				
1.00	emission during venicle movement:				
1.08	Are water spraying provided ininiediately prior to any loading of dataset of datasy				
1.00	materials?				
1.09	Are covers provided to an dump frucks carrying dusty materials when entering and				
1.10	icaving the site?				
1.10	Are the working areas for uproofing of frees, sindos, of vegetation of the removal of				
	boulders, poles, pillars sprayed with water to maintain the entre surface wet				
1.11	is exposed earth properly treated within six months after the last construction activity on		\checkmark		
	site?				
1.12	Does the operation of plants on site free form dark smoke emission?		$\mathbf{\nabla}$		
1.12	Are validles toughting at speed not exceeding 15km/br within the site?				
1.13	where ventores travening at speed not exceeding 15km/m within the site.				
1.14	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3				
1.14	sides?				





		N/A	Yes	No	Photo/Remarks
1.15	Are de-bagging, batching and mixing processes of bagged company corride out in chattered				
	areas?	\checkmark			
1.16	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas				
	accessible by the public?	\checkmark			
1.17	Is open burning prohibited?		$\overline{\mathbf{A}}$	\Box	
2.00	Construction Noise (Airborne)				
2.01	Are quiet plants adopted on site?		\square		
2.02	Are the PMEs operating on site well-maintained to minimize the generation of excessive noise?				
2.03	Are plants throttled down or turned off when not in use?				
2.04			\square		
2.04	Are the plants known to emit noise strongly in one direction oriented to face away from	\Box			
2.05					
2.05	Are moveable barriers provided to screen NSRs from plant or noisy operations?	\checkmark			
2.06	Are silencers, mufflers and enclosures provided to plants?	\square			
2.07	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?		\square		
2.08	Are purposely-built site hoarding construction with appropriate materials provided along				
() (the site boundary?	\checkmark			
2.09	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?	\checkmark			
2.10	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?		Π		
2.11	Are valid noise emission label(s) affixed to all air compressors operating on site?	$\overline{\nabla}$	\square	\Box	
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				
	iours?				
2.14	Are valid construction noise permit(s) displayed at all vehicular exits?		\checkmark		
.00	Nater Quality				
.01	s effluent discharge license obtained for wastewater discharge from site?		\checkmark		
3.02 1	s effluent discharged according to the effluent discharge license?		$\overline{\mathbf{A}}$		
3.03 1	s wastewater discharge from site properly treated prior to discharge?	\Box	$\overline{\nabla}$	\square	
3.04 A	are perimeter channels provided to intercept storm runoff from outside the site?	$\overline{\mathbf{V}}$	$\overline{\square}$		
3.05 A	are sand/silt removal facilities such as sand/silt traps and sediment basins provided to				
r	emove sand/silt particles from runoff?	\Box	\checkmark		
3.06 1	s surface runoff diverted to sedimentation facilities?	\checkmark			





	Contract No.: 13/WSD/16 Mainlaying in Tseung Kwan O								
		N/A Yes No Photo/Remarks							
3.07	s the drainage system properly maintained?								
3.08	Are construction works carefully programmed to minimize soil excavation works during rainy easons?								
3.09	Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil prosion?								
3.10	Are temporary access roads protected by crushed gravel?								
3.11	Are exposed slope surface properly protected?								
3.12	Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation?								
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?								
3.15	Is oil leakage or spillage prevented?	Reminder)							
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 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?								
4.00 4.01	Waste Management 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?								
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?								
		Dago 2 of							





	Contract 10. 15/ WSD/10 Waimaying In	Iseung K	wan O		
		N/A	Yes	No	Photo/Remarks
4.0	Are all containers for chemical waste properly labelled?				
	solution and the property faction :		V		
4.0'	Is drip tray provided for chemical storage?				obs (
4.08	Is chemical waste storage area used solely for storage of chemical waste and properly labelled?		\mathbf{V}		
4.09	Are incompatible chemical wastes stored in different areas?				
	and meeting and the mean wastes stored in different areas?	$\overline{\checkmark}$			
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		0	10	
	argest container or of 200/ by ushing a fals, 1				
	the greatest, provide?		\square		
4.12	Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?				
4.13	Are sufficient general refuse disposal/collection points provided on site?				
114			\checkmark		
4.14	is general refuse disposed of properly and regularly?				
4.15	Are appropriate measures adopted to minimize windblown litter and dust during transportation				
4.16	of waste?		\checkmark		
4.16	Are individual collectors for aluminum cans, plastic bottles and packaging material and office				
	paper provided to encourage waste segregation?		1		
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 roughd to reduce the recycled of the reduced to reduce the recycled of the reduced to reduce the recycled of the reduced to reduce the reduced to reduced to reduce the reduced to re				
1.0.0	in the matching of engineers recycled of reused to reduce the quantity of waste?		\checkmark		
4.20	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?		\checkmark		
4.21	Are the construction materials stored properly to minimize the potential for damage or				
1.00	contamination?		\checkmark		
4.22	is a dumping license obtained to deliver public fill to public filling areas?		\checkmark		
5.00	Landscape and Visual			11) 21)	
5.01	Are is site hoarding menuid- 19	1			
	care as she notating provided?	V			
5.02	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?		\checkmark		
5.03	is construction light oriented away from the sensitive receivers?				
5.04	s grass hydroseeding provided to slopes as soon as the completion of works?	$\overline{\checkmark}$			





		N/A	Yes	No	Photo/Remarks
5.05	Are damages to trees outside site boundary due construction works avoided?		\square		
5.06	Is excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees?	\checkmark			
5.07	Are the retained and transplanted tree(s) properly protected and in good conditions?				Reminder 1
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?		\checkmark		
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?		\checkmark		



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Contract no. 13/WSD/17 Design, Build and Operate First Stage of Tseung Kwan O Desalination Plant

Remark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection: 1) Chenical containens bund near the power generators shall be stored properly or provide a drip troy at Pit W Acenchian end pit o 2) Reminders 1). Trees protection shall be provided along the read of the Pit W and Pito The contractors are reminded to remove the stock piles near the the trees to gooid damage 2.) The escavetor in PHO shell be checked and mainter. to avoid any oil lespage. Signatures: ET Contractor's Supervising Officer's IEC's WSD's Representative Representative Representative Representative Representative ANV (Name: (Name: Her KMWMM (Name: (Name: (Name:



Appendix M

Proactive Environmental Protection Proforma

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Proactive Environmental Protection for the Next Reporting Month

Reporting Period	Activity	Major Environmental Impact	Environmental Mitigation Measure
1 – 31 January 2023	 Excavation of trench Mainlaying of pipe Backfilling of the trench Work fronts for open trench Work fronts for pipe jacking 	 Construction dust Noise generation; Construction waste Impact of water quality 	 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.

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Impact Monitoring Schedule of Next Reporting Month

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



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