





Contract No. 13/WSD/16

Mainlaying in Tseung Kwan O

Monthly EM&A Report No. 74
(Period from 1 September to 30 September 2024)

September 2024

(Rev. 2)

	Prepared by:	Reviewed and Certified by:
Name	Toby Wan	Jacky Leung
Position	Environmental Team Member	Environmental Team Leader
Signature		
Date:	22 October 2024	22 October 2024



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

Your reference:

Our reference: HKWSD201/50/110064

Date: 22 October 2024

Attention: Mr Henry Chan

BY POST

Dear Sirs

Quotation Ref. 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. 74

We refer to emails of 18 and 22 October 2024 attaching Monthly EM&A Report No. 74 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/B.

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

James Choi
Independent Environmental Checker

CPSJ/KSYL/thy

Revision History

Rev.	DESCRIPTION OF MODIFICATION	DATE
1	1 st Submission	18/10/2024
2	2 nd Submission	22/10/2024

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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 74th Monthly EM&A Report, prepared by ASCL, for the Project summarizing the monitoring results and audit findings of the EM&A programme at and around Tseung Kwan O (TKO) during the reporting period from 1 September to 30 September 2024.
- A4. The EM&A programme for this contract has covered environmental monitoring on construction noise level at selected NSRs and Contractor’s environmental performance auditing in the aspects of construction dust, construction noise, water quality, waste management, landscape and visual and ecology.

Summary of Main Works Undertaken & Key Mitigation Measures Implemented

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

Location	Construction activities carried in the reporting month
Wan Po Road and TKO Area 137	<ul style="list-style-type: none"> • Road pavement reinstatement • Remaining works installation of accessories for completed chambers
TKO Promenade (Stage 1 Landfill) & Po Yap Road Roundabout	<ul style="list-style-type: none"> • Road pavement reinstatement • Remaining works installation of accessories for completed chambers
HK Velodrome	<ul style="list-style-type: none"> • Road pavement reinstatement • Remaining works installation of accessories for completed chambers
Po Lam Road South / Ling Hong Road	<ul style="list-style-type: none"> • Road pavement reinstatement • Remaining works installation of accessories for completed chambers
Tsui Lam Road / Abandoned Road	<ul style="list-style-type: none"> • Road pavement reinstatement • Remaining works installation of accessories for completed chambers

- A6. The major environmental impacts brought by the above construction works include:
- Construction dust and noise generation from road reinstatement and chambers construction;
 - 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 road reinstatement and chambers construction;

- 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 [2, 7, 13, 19 and 25 September 2024](#) 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. Water quality monitoring was carried out during the disinfection procedure. According to Water Supply Department, the discharge of dechlorinated effluent arranged on 13 – 19 December 2023 and TRC monitoring at the sampling locations (outlet of the Service Reservoir) was carried out during the discharge. The TRC for the discharge are recorded less than 0.1mg/L and all results are below the action level.
- A10. According to the Contractors, all pits or trenches were backfilled and undergo reinstatement. The landfill gas monitoring was ceased from February 2024.

Complaint Handling and Prosecution

- A11. No environmental complaint was received in the reporting month. No notifications of summons and prosecution was received in the reporting month.

Reporting Change

- A12. There were no changes reported that may affect the on-going EM&A programme.

Summary of Upcoming Key Issues and Key Mitigation Measures

- A13. 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	• No construction activities
TKO Promenade (Stage 1 Landfill) & Po Yap Road Roundabout	• No construction activities
HK Velodrome	• No construction activities
Po Lam Road South / Ling Hong Road	• No construction activities
Tsui Lam Road / Abandoned Road	• No construction activities

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/B) and Further Environmental Permit (No. FEP-503/2015/B) to Water Supplies Department (WSD) for the Project on 3 April 2024.

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 74th Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from [1 September to 30 September 2024](#).

Project Organization

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

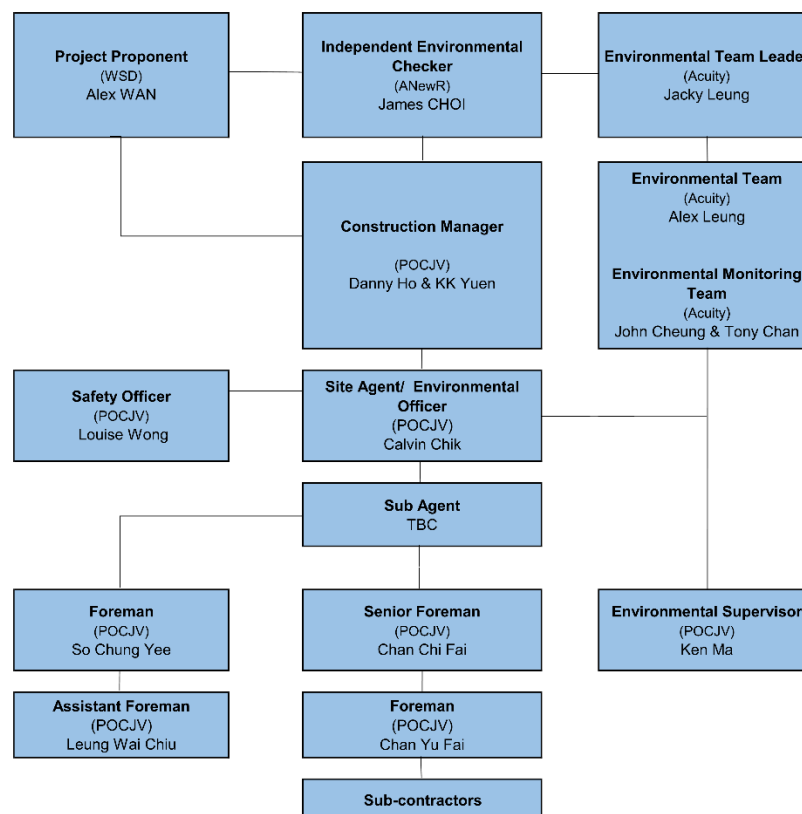


Figure 1.1 Project Organization Chart

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

Table 1.1 Contact details of the key personnel

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

1.3. Summary of Construction Works

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

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

Location	Construction activities carried out in the reporting month
Wan Po Road and TKO Area 137	<ul style="list-style-type: none"> Road pavement reinstatement Remaining works installation of accessories for completed chambers
TKO Promenade (Stage 1 Landfill) & Po Yap Road Roundabout	<ul style="list-style-type: none"> Road pavement reinstatement Remaining works installation of accessories for completed chambers
HK Velodrome	<ul style="list-style-type: none"> Road pavement reinstatement Remaining works installation of accessories for completed chambers
Po Lam Road South / Ling Hong Road	<ul style="list-style-type: none"> Road pavement reinstatement Remaining works installation of accessories for completed chambers
Tsui Lam Road / Abandoned Road	<ul style="list-style-type: none"> Road pavement reinstatement Remaining works installation of accessories for completed chambers

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

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

Reference No.	Valid Period		Status	Remark
	From	To		
Environmental Permit				
EP-503/2015/B	--	--	Valid	N/A
FEP-01/503/2015/B	--	--	Valid	N/A

Reference No.	Valid Period		Status	Remark
	From	To		
Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation				
423775	--	--	Valid	N/A
Chemical Waste Producer Registration				
5213-839-P3287-01	--	--	Valid	N/A
Billing Account for Disposal of Construction Waste				
A/C no.: 7029491	--	--	Valid	N/A
Water Discharge Licence				
WT0002035-2023	16 Feb 2024	31 Dec 2028	Valid	N/A

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

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

Parameters	Status
Noise	
Baseline Monitoring	The baseline noise monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under VEP Condition 3.4.
Impact Monitoring	A justification of termination of the EM&A programme was submitted to the EPD by WSD on 7 October 2024 and currently awaiting EPD approval. The noise monitoring is expected to be ceased in October 2024.
Water	
Impact monitoring of disinfection procedure	Completed
Waste Management	
Mitigation Measures in Waste Management Plan	On-going
Landfill Gas	
Impact Monitoring	Ceased from February 2024
Environmental Audit	
Site Inspection	A justification of termination of the EM&A programme was submitted to the EPD by WSD on 7 October 2024 and currently awaiting EPD approval. The site inspection is expected to be ceased in October 2024.

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 [2, 7, 13, 19 and 25 September 2024](#) 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}). $L_{Aeq\ 30min}$ was used as the monitoring parameter for the time period between 0700 and 1900 on normal weekdays. **Table 2.1** summarizes the monitoring parameters, frequency, and duration of the impact noise monitoring. The monitoring schedule is provided in **Appendix D**.

Table 2.1 Noise Monitoring Parameters, Time, Frequency and Duration

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

2.3. Noise Monitoring Locations

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

According to the environmental findings detailed in the EIA report and Baseline Monitoring Report, the designated locations for the construction noise monitoring are listed in **Table 2.2** below.

Table 2.2 Noise Monitoring Location

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

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



Figure 2.1 NSR4 Creative Secondary School



Figure 2.2 NSR24 PLK Laws Foundation College



Figure 2.3 NSR31 School of Continuing and Professional Studies - CUHK

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.

Table 2.3 Impact Noise Monitoring Equipment

Equipment	Brand and Model	Serial Number	Date of Calibration	Expiry Date
Sound Level Meter	SVANTEK 971	C132261	27 Oct 2023	26 Oct 2024
Sound Level Meter Calibrator	RION NC-75	35124527	27 Oct 2023	26 Oct 2024
Pocket Wind Meter Anemometer	Kestrel 1000 Wind Meter	Nil	Nil	Nil

2.5. Action and Limit Levels

The Action/Limit Levels are in line with the criteria of Practice Note for Professional Persons (ProPECC PN 2/93) “Noise from Construction Activities – Non-statutory Controls” and Technical Memorandum on Environmental Impact Assessment Process issued by HKSAR Environmental Protection Department [“EPD”] under the Environmental Impact Assessment Ordinance, Cap 499, S.16 are presented in **Table 2.4**.

Table 2.4 Action and Limit Levels for Noise

Time Period	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	<ul style="list-style-type: none"> • 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 [2, 7, 13, 19 and 25 September 2024](#). Detailed monitoring results are presented in **Appendix G**.

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

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

3. WASTE MANAGEMENT

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

Table 3.1 Quantities of waste generated from the Project

Reporting period	Quantity					
	Inert C&D Materials (in '000m ³)	Chemical Waste (in '000kg)	Non-inert C&D Materials			
			Others, e.g., General Refuse disposed at Landfill (in '000m ³)	Recycled materials		
				Paper/cardboard (in '000kg)	Plastics (in '000kg)	Metals (in '000kg)
September 2024	0.000	0.000	0.042	0.025	0.000	0.000

4. LANDFILL GAS MONITORING

4.1. Monitoring Requirement

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

4.2. Monitoring Location

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

During construction of works within the consultation zones, excavations of 1m depth or more was monitored:

- At the ground surface before excavation commences;
- Immediately before any worker enters the excavation;
- At the beginning of each working day for the entire period when the excavation remains open; and
- Periodically through the working day whilst workers are in the excavation.

For excavations between 300mm and 1m deep, measurements should be carried out:

- Directly after the excavation has been completed; and
- Periodically whilst the excavation remains open.

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

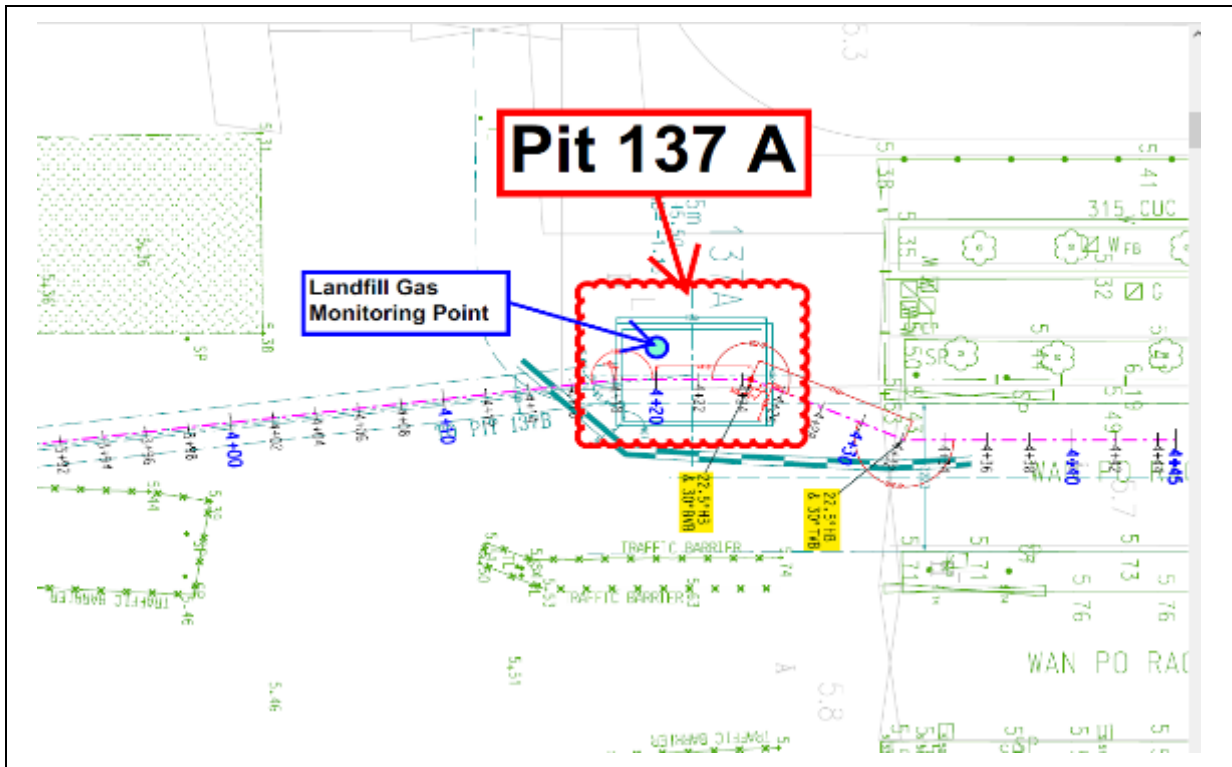


Figure 4.4 Monitoring Location – Pit 137A (137 Pit A)

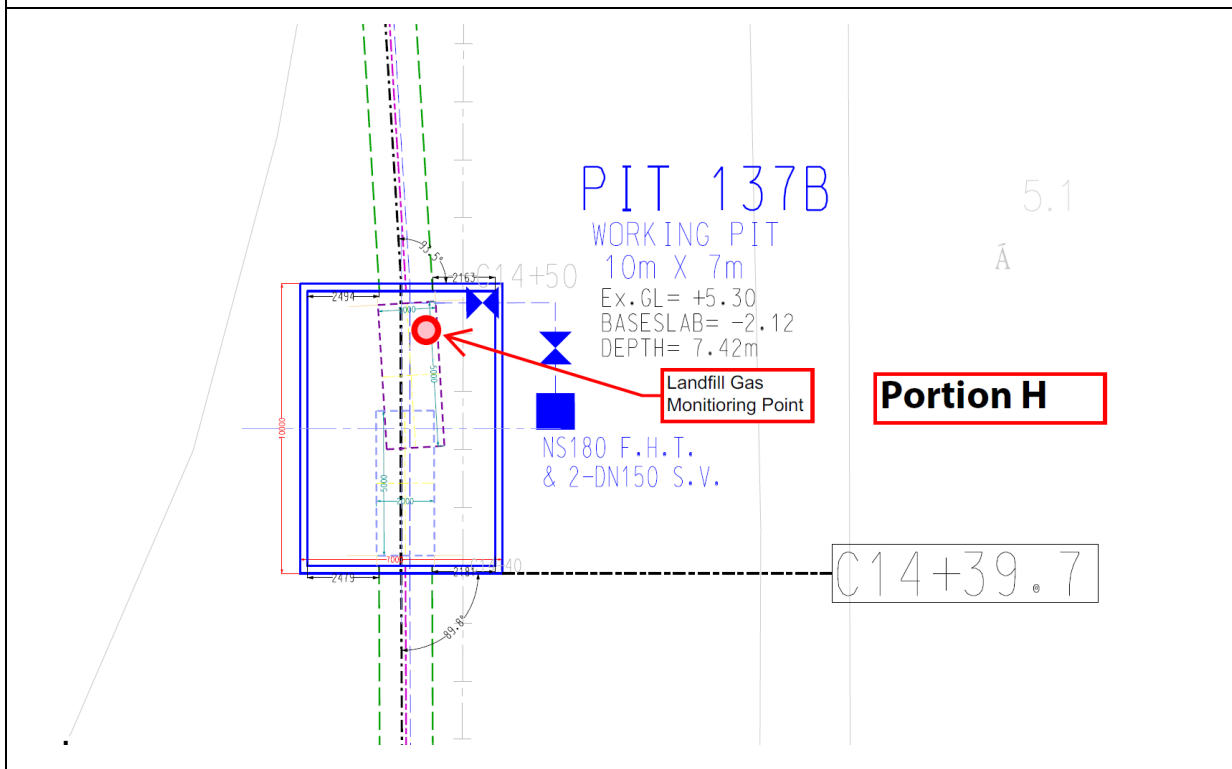


Figure 4.5 Monitoring Location – Pit 137B (137 Pit B)

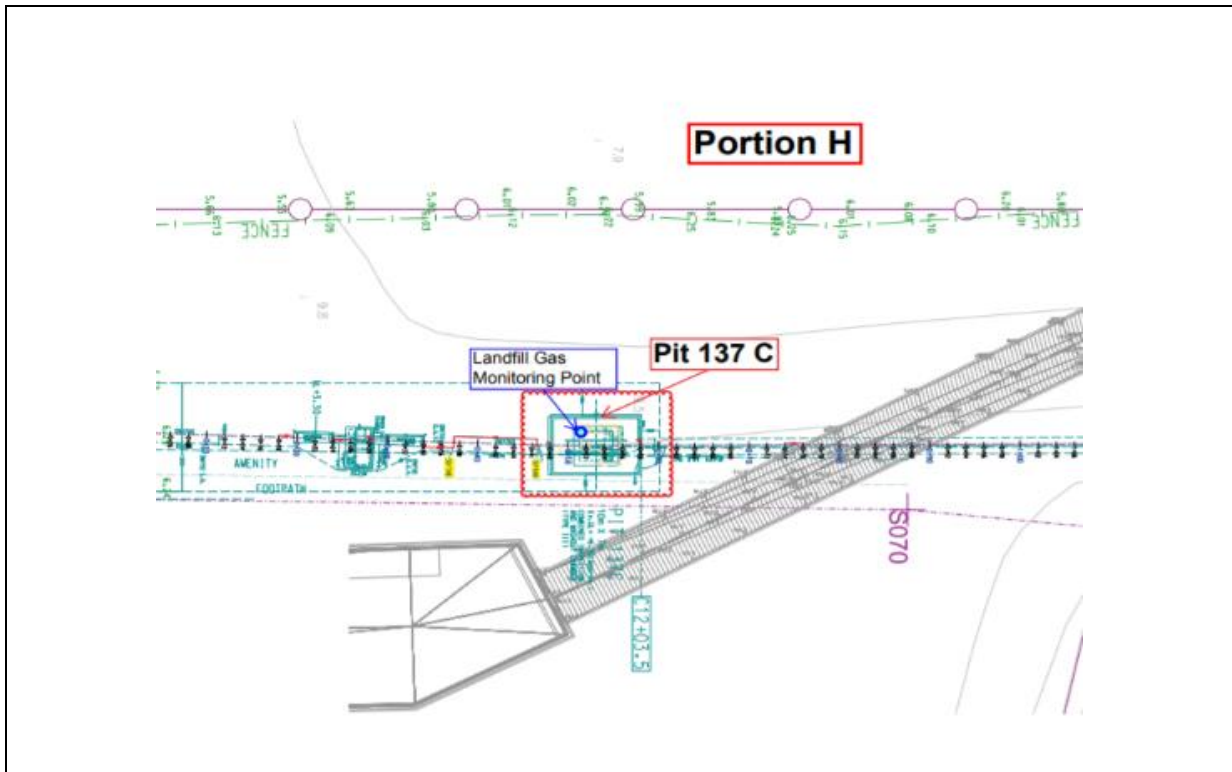


Figure 4.6 Monitoring Location - Pit 137C (137 Pit C)

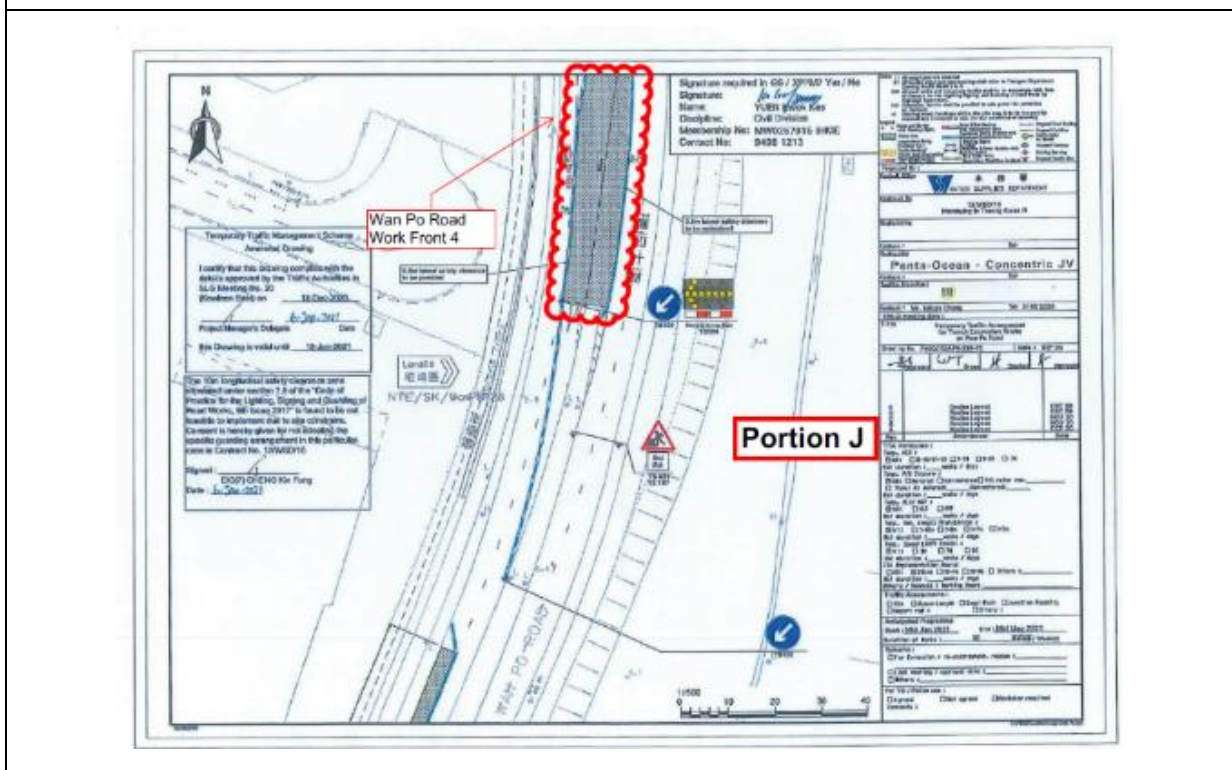


Figure 4.7 Monitoring Location - Wan Po Road 4

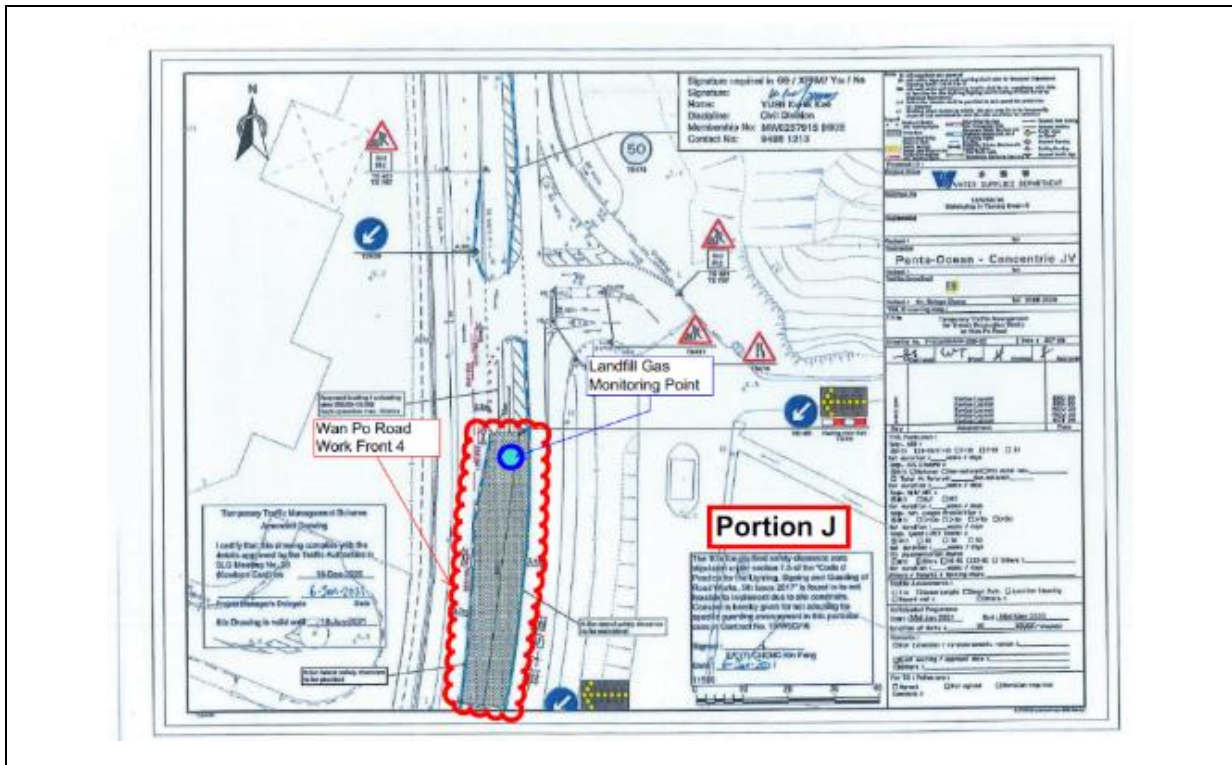


Figure 4.8 Monitoring Location – Wan Po Road 5

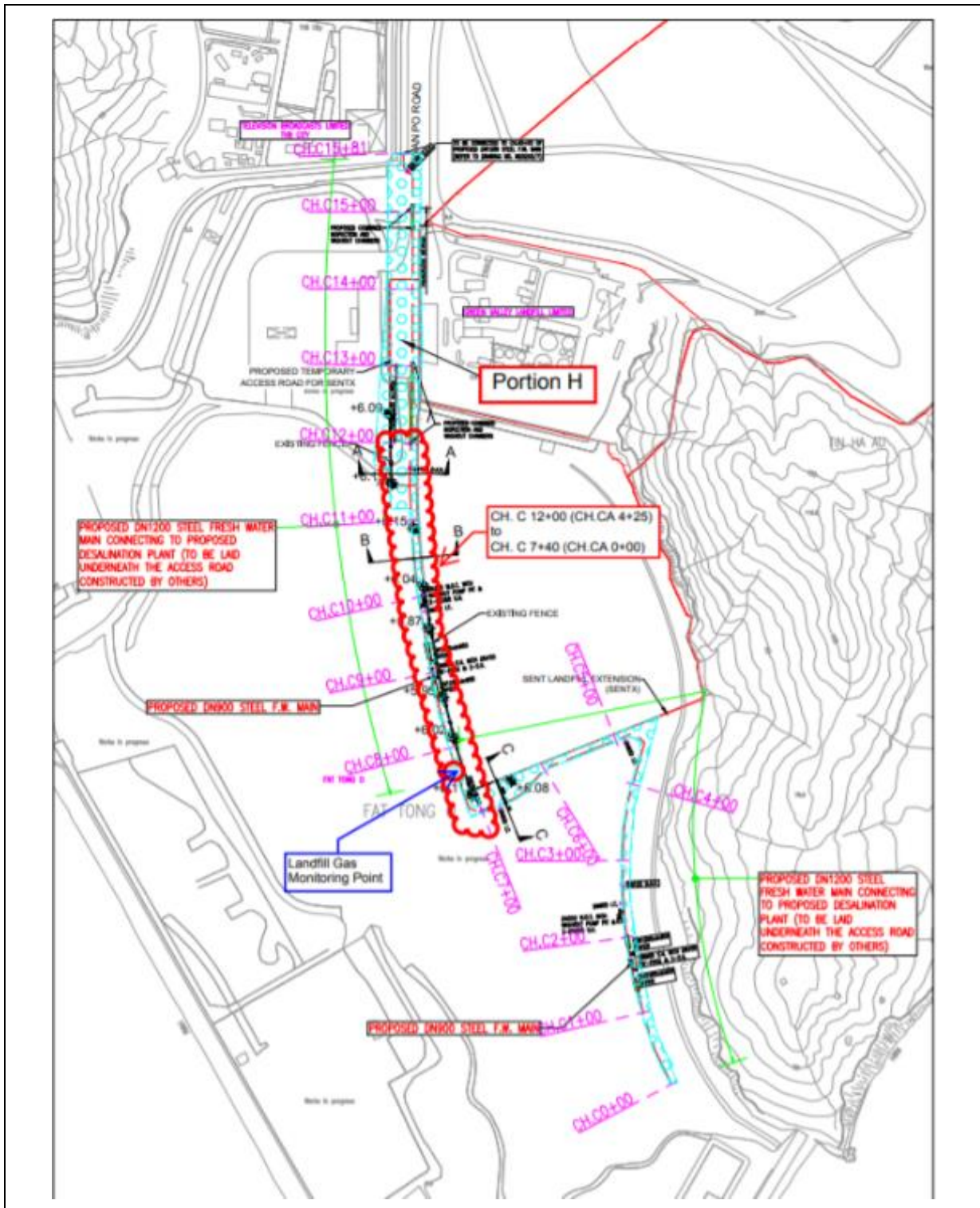


Figure 4.9 Monitoring Location –CH.CA 0+00 to CH.CA 04+25 (CH.C 7+40 ~ 12+00)

4.3. Monitoring Parameters

Landfill Gas monitoring was carried out to identify any migration between the landfill and the Project and to ensure the safety of the construction, operation and maintenance personnel working on-site, visitors and any other person within the Project area.

The following parameters were monitored:

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

4.4. Action and Limit Level

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

Table 4.1 Action and Limit Level for Landfill Gas Monitoring Equipment

Parameters	Action Level	Limit Level
Oxygen (O ₂)	<19% O ₂	<19% O ₂
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 5.2**. The Landfill Gas monitoring equipment calibration certificate is presented in **Appendix I**.

Table 5.2 Landfill Gas Monitoring Equipment

Equipment	Brand and Model	Calibration Expiry Date
Portable Gas Detector	--	--
CO2 Analyzer	--	--

4.6. Monitoring Results

According to the Contractors, all pits or trenches were backfilled and undergo reinstatement. No landfill gas monitoring was carried out by the Registered Safety Officer of the Contractor at the excavation locations. The landfill gas monitoring was ceased from February 2024.

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

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

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

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

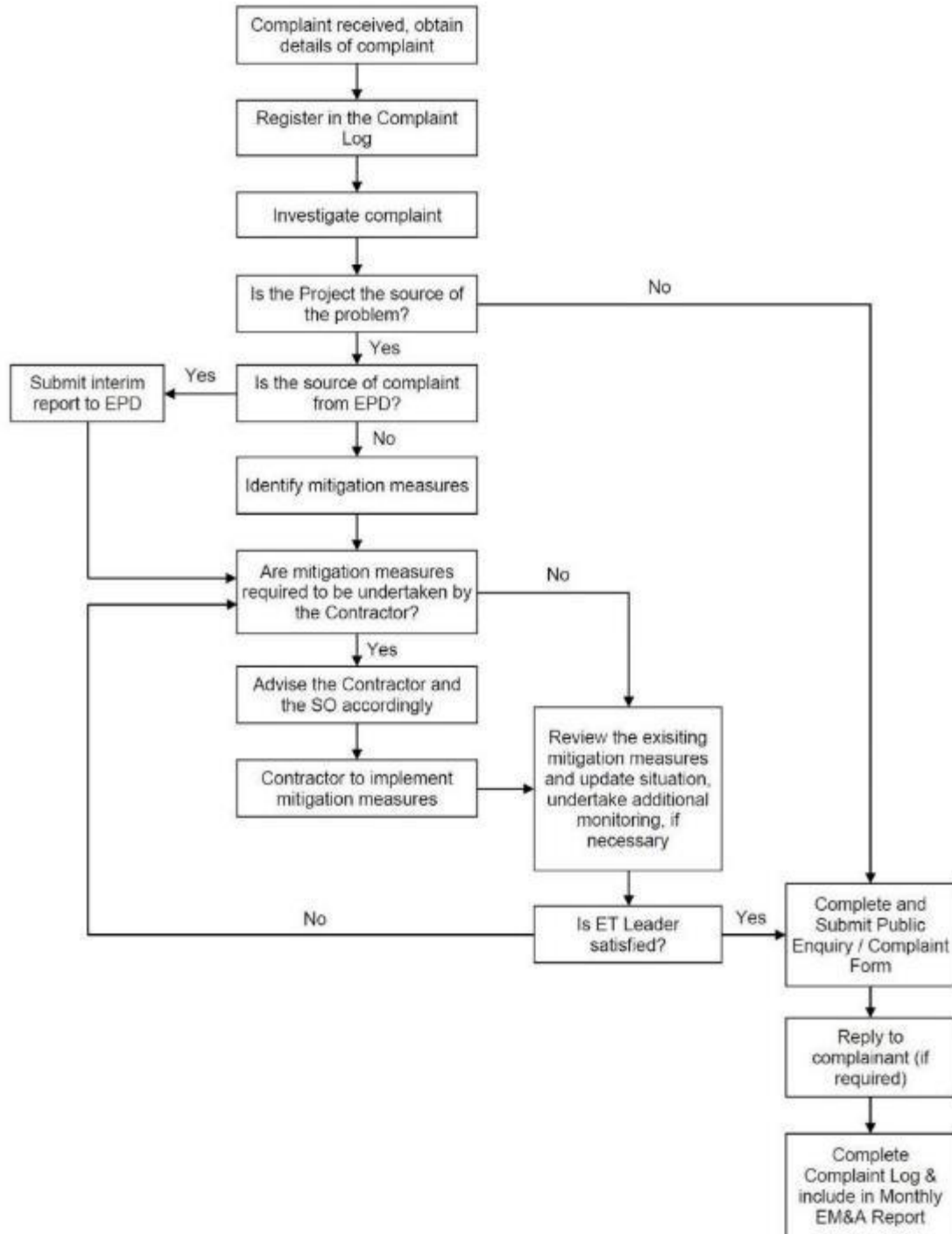


Figure 5.1 Environmental Complaint Handling Procedure

Impact monitoring for noise impact was scheduled in the reporting month for NSR4 – Creative Secondary School on [2, 7, 13, 19 and 25 September 2024](#) as construction works were conducted within 300m to the noise sensitive receiver. Detailed monitoring results can be found in **Appendix G**. No action or limit levels exceedance was recorded in the reporting period.

According to the Contractors, all pits or trenches were backfilled and undergo reinstatement. No landfill gas monitoring was carried out by the Registered Safety Officer of the Contractor at the excavation locations. The landfill gas monitoring was ceased from February 2024.

No environmental complaint was received in the reporting period. No 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 **5, 12, 19 and 26 September 2024** at the site portions list in **Table 6.1** below. One joint site inspection with IEC was carried out on **26 September 2024**.

Table 6.1 Site Inspection Record

Date	Inspected Site Portion	Time
05 September 2024	Portion J	09:30 – 10:30
12 September 2024	Portion J	09:30 – 10:30
19 September 2024	Portion J	09:30 – 10:30
26 September 2024	Portion J	09:30 – 10:30

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

Table 6.2 Site Observations

Date	Environmental Observations	Follow-up Status
05 September 2024	No major environmental deficiency was observed during site inspection.	N.A.
12 September 2024	No major environmental deficiency was observed during site inspection.	N.A.
19 September 2024	No major environmental deficiency was observed during site inspection.	N.A.
26 September 2024	The chemical containers should be placed in the drip tray.	The chemical containers have been 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 Area 137	<ul style="list-style-type: none"> • No construction activities
TKO Promenade (Stage 1 Landfill) & Po Yap Road Roundabout	<ul style="list-style-type: none"> • No construction activities
HK Velodrome	<ul style="list-style-type: none"> • No construction activities
Po Lam Road South / Ling Hong Road	<ul style="list-style-type: none"> • No construction activities
Tsui Lam Road / Abandoned Road	<ul style="list-style-type: none"> • No construction activities

According to WSD and contractor information, all remaining work under the contract has been fully completed and that no power mechanical equipment was adopted on the site. No significant adverse environmental impacts are anticipated.

8. CONCLUSION AND RECOMMENDATIONS

This is the 74th monthly Environmental Monitoring and Audit (EM&A) Report presenting the EM&A works undertaken during the period from 1 September to 30 September 2024 in accordance with the EM&A Manual and the requirement under EP-503/2015/B and FEP-01/503/2015/B.

Impact monitoring for noise impact was scheduled in the reporting month for NSR4 – Creative Secondary School on 2, 7, 13, 19 and 25 September 2024 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.

Water quality monitoring was carried out during the disinfection procedure. According to Water Supply Department, the discharge of dechlorinated effluent arranged on 13 – 19 December 2023 and TRC monitoring at the sampling locations (outlet of the Service Reservoir) was carried out during the discharge. The TRC for the discharge are recorded less than 0.1mg/L and all results are below the action level.

According to the Contractors, all pits or trenches were backfilled and undergo reinstatement. No landfill gas monitoring was carried out by the Registered Safety Officer of the Contractor at the excavation locations. The landfill gas monitoring was ceased from February 2024.

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

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

Appendix A

Construction Programme

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

Original Contract due Date: 18/5/2021
 Dividing Date: 14/4/2022
 CE28: 20/5/2022
 CE67(Section II): 27/7/2023
 CE51: 6/10/2022
 CE57(Section II): 7/2/2023
 Planned Completion (WPR A-D): 10/11/2023

ID	Task Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	Est. Work	Total Work	Duration	% Complete	Actual Start	Actual Finish
1	Contract No. 13/WSD/16 - Mainlaying in Tseung Kwan O	1829 days	7/11/17	9/11/24	None			0 days	0 days	1829 days	90%	7/11/17	NA
2	Key Dates	1829 days	7/11/17	9/11/24	None			0 days	0 days	1829 days	0%	7/11/17	NA
3	Contract Date	0 days	7/11/17	7/11/17	Calendar Day			76,77,78,79,80,81,82,83,84	0 days	0 days	100%	7/11/17	7/11/17
4	Starting Date	0 days	16/11/17	16/11/17	Calendar Day			0 days	0 days	0 days	100%	16/11/17	16/11/17
5	Access Date of Portion 'A', 'B', 'C', 'D', 'E', 'F' and 'G'	0 days	16/11/17	16/11/17	Calendar Day			87,90,103,114,116,118,123	0 days	0 days	100%	16/11/17	16/11/17
6	Contract Access Date of Portion 'H'	0 days	10/8/19	10/8/19	Calendar Day			573	0 days	0 days	100%	10/8/19	10/8/19
7	Contract Completion Date	0 days	18/5/21	18/5/21	Calendar Day			0 days	0 days	0 days	100%	18/5/21	18/5/21
8	Revised Completion Date (Accepted Programme No.2, including CE01 & CE23)	0 days	11/2/22	11/2/22	Calendar Day			0 days	0 days	0 days	100%	11/2/22	11/2/22
9	Planned Completion	0 days	10/11/23	10/11/23	Calendar Day			0 days	0 days	0 days	0%	NA	NA
10	Defect date	0 days	9/11/24	9/11/24	Calendar Day			0 days	0 days	0 days	0%	NA	NA
11	Issue Date of Compensation Event	1316 days	12/6/18	18/3/22	Calendar Day			0 days	0 days	1316 days	0%	12/6/18	NA
12	CE03 - Upgrading of bandwidth of Internet Services for Site Accommodation	0 days	12/6/18	12/6/18	Calendar Day			0 days	0 days	0 days	100%	12/6/18	12/6/18
13	CE01 - Change in Pressure Rating of Watermain, Valves and Fittings (from PN16 to PN25)	0 days	12/7/18	12/7/18	Calendar Day			110,133,137,138	0 days	0 days	100%	12/7/18	12/7/18
14	CE04 - Feasibility Study of Realignment of Pipeline Between Po Hong Road and TKO/PSR	0 days	23/8/18	23/8/18	Calendar Day			204	0 days	0 days	100%	23/8/18	23/8/18
15	CE05 - Feasibility Study of Realignment of Pipeline at TKO Stage 1 Landfill	0 days	23/8/18	23/8/18	Calendar Day			863	0 days	0 days	100%	23/8/18	23/8/18
16	CE02 - Water Supply to TKO Desalination Plant at Hill Bank of TKO Area 137	0 days	16/11/18	16/11/18	Calendar Day			0 days	0 days	0 days	100%	16/11/18	16/11/18
17	CE08 - Change in Number of Fixed IP Address for Broadband Connection for Site	0 days	4/12/18	4/12/18	Calendar Day			0 days	0 days	0 days	100%	4/12/18	4/12/18
18	CE09 - Water Supply to Tseung Kwan O Desalination Plant at Portion 'H'	0 days	22/1/19	22/1/19	Calendar Day			744	0 days	0 days	100%	22/1/19	22/1/19
19	CE06 - Unforeseen Underground Conditions during Trench Excavation for Mainlaying at Wan Po Road between CH.A6+90 and CH.A7+10	0 days	1/2/19	1/2/19	Calendar Day			0 days	0 days	0 days	100%	1/2/19	1/2/19
20	CE10 - Contractor's Design of The Realignments	0 days	28/2/19	28/2/19	Calendar Day			589,205	0 days	0 days	100%	28/2/19	28/2/19
21	CE14 - Manhole Inspection of Existing Drain/Outfall near HKVD and TKO Stage 1 Landfill and CCTV Survey of Existing Drain at Cycle Track near HKVD	0 days	2/4/19	2/4/19	Calendar Day			0 days	0 days	0 days	100%	2/4/19	2/4/19
22	CE12 - Provision of Suitable Land Transport for Site Supervision in Tseung Kwan O Area 137	0 days	12/4/19	12/4/19	Calendar Day			0 days	0 days	0 days	100%	12/4/19	12/4/19
23	CE13 - Excavation of Inspection Pits for the Realignments	0 days	15/5/19	15/5/19	Calendar Day			0 days	0 days	0 days	100%	15/5/19	15/5/19
24	CE15 - Inclement Weather in February 2019	0 days	17/5/19	17/5/19	Calendar Day			0 days	0 days	0 days	100%	17/5/19	17/5/19
25	CE18 - Unforeseen Underground Conditions at Open Trench of Mainlaying at WPR between CH.A12+89 and CH.A13+04	0 days	27/5/19	27/5/19	Calendar Day			0 days	0 days	0 days	100%	27/5/19	27/5/19
26	CE20 - Traffic Count and Preliminary Traffic Analysis in Po Lam Road and Tsui Lam Road	0 days	19/6/19	19/6/19	Calendar Day			0 days	0 days	0 days	100%	19/6/19	19/6/19
27	CE23 - Inclement Weather in June 2018	0 days	24/7/19	24/7/19	Calendar Day			0 days	0 days	0 days	100%	24/7/19	24/7/19
28	CE27 - Underground Utility Detection Survey for Working Pit D (CH.A22+75)	0 days	2/8/19	2/8/19	Calendar Day			352	0 days	0 days	100%	2/8/19	2/8/19
29	CE21 - Temporary Diversion of Uncharted Underground Utilities Near Wan O Road at CH.A16+00(Pit B)	0 days	8/8/19	8/8/19	Calendar Day			351	0 days	0 days	100%	8/8/19	8/8/19
30	CE26 - Change in Cathodic Protection System for Mild Steel Pipes	0 days	16/8/19	16/8/19	Calendar Day			144	0 days	0 days	100%	16/8/19	16/8/19
31	CE19 - Change in Design of Gate Valve Chamber at WPR near CH.A12+40	0 days	22/8/19	22/8/19	Calendar Day			196	0 days	0 days	100%	22/8/19	22/8/19
32	CE29 - Tree Transplanting Work in Wan Po Road near Wan O Road (Pit A CH.A13+70)	0 days	23/9/19	23/9/19	Calendar Day			0 days	0 days	0 days	100%	23/9/19	23/9/19
33	CE24 - Ground Investigation Works for Working Pit E, F & Trenchless Works across MTR's Tunnels	0 days	27/9/19	27/9/19	Calendar Day			412	0 days	0 days	100%	27/9/19	27/9/19
34	CE34 - Realignment of Watermain along TKO Stage 1 Landfill	0 days	5/11/19	5/11/19	Calendar Day			294,475	0 days	0 days	100%	5/11/19	5/11/19
35	CE33 - Inclement Weather in July 2018	0 days	18/12/19	18/12/19	Calendar Day			0 days	0 days	0 days	100%	18/12/19	18/12/19
36	CE37 - Inclement Weather in August 2018	0 days	18/12/19	18/12/19	Calendar Day			0 days	0 days	0 days	100%	18/12/19	18/12/19
37	CE11 - Replacing the Major Project Signboard with Project Banner	0 days	30/12/19	30/12/19	Calendar Day			0 days	0 days	0 days	100%	30/12/19	30/12/19
38	CE35 - Feasibility Study on the Alternative Alignment by Trenchless method beneath MTR's Tunnels in the Wan Po Road /o Lohas Park Road	0 days	31/12/19	31/12/19	Calendar Day			206	0 days	0 days	100%	31/12/19	31/12/19
39	CE17 - Realignment of Water Main by Trenchless Method in TKO Area 137 (CH.CC0+00 - CH.CC1+38 & CH.KC0+00 - CH.KC1+38)	0 days	3/1/20	3/1/20	Calendar Day			748	0 days	0 days	100%	3/1/20	3/1/20
40	CE38-45 - Inclement Weather in September 2018, March to September 2019	0 days	13/1/20	13/1/20	Calendar Day			0 days	0 days	0 days	100%	13/1/20	13/1/20
41	CE28 - Realignment of Water Mains along Po Yip Road and Po Hong Road	0 days	13/1/20	13/1/20	Calendar Day			507,508,477	0 days	0 days	100%	13/1/20	13/1/20
42	CE30 - Removal of Debris along the U-channel at Spots 4-7 Hiking Trail at Tsui Lam	0 days	14/1/20	14/1/20	Calendar Day			0 days	0 days	0 days	100%	14/1/20	14/1/20
43	CE48 - Urgent Cleaning of Workfronts at CH.A6+54, CH.A12+36 and CH.A13+79 at WPR	0 days	21/1/20	21/1/20	Calendar Day			0 days	0 days	0 days	100%	21/1/20	21/1/20
44	CE22 - Instruction to Change in Mainlaying Method at Wan Po Road between CH.A6+54 and CH.A6+61	0 days	20/1/20	20/1/20	Calendar Day			174	0 days	0 days	100%	20/1/20	20/1/20
45	CE49 - Provision of Suitable Land Transport for Site Supervision in TKO Area 137 (Feb 2020 - Jan 2021)	0 days	28/2/20	28/2/20	Calendar Day			572	0 days	0 days	100%	28/2/20	28/2/20
46	CE09 - Change of Procurement of Miscellaneous Items	0 days	28/2/20	28/2/20	Calendar Day			0 days	0 days	0 days	100%	28/2/20	28/2/20
47	CE53 - Inclement Weather in October 2019	0 days	6/4/20	6/4/20	Calendar Day			0 days	0 days	0 days	100%	6/4/20	6/4/20
48	CE55 - Design of the Water Main Structure and Associated Pipe Support across the Natural Stream Course for Alternative Alignment in Tsui Lam	0 days	5/5/20	5/5/20	Calendar Day			648	0 days	0 days	100%	5/5/20	5/5/20
49	CE61 - Inclement Weather in February 2020	0 days	13/5/20	13/5/20	Calendar Day			0 days	0 days	0 days	100%	13/5/20	13/5/20
50	CE56 - Excavation of Inspection Pits for the Alternative Alignment (Batch No.2)	0 days	22/5/20	22/5/20	Calendar Day			0 days	0 days	0 days	100%	22/5/20	22/5/20
51	CE36 - Realignment of Water Mains along the Bituminous Road adjacent to Lohas Park Road (Area A)	0 days	22/5/20	22/5/20	Calendar Day			272	0 days	0 days	100%	22/5/20	22/5/20
52	CE64 - Tree Survey at Tsui Lam (Location A and B)	0 days	9/6/20	9/6/20	Calendar Day			0 days	0 days	0 days	100%	9/6/20	9/6/20
53	CE50 - Realignment of Water Mains at the Junction of WPR and PYP and the Junction of PWR and PSR	0 days	11/6/20	11/6/20	Calendar Day			477,556,557,562	0 days	0 days	100%	11/6/20	11/6/20
54	CE62 - Design of Pipe Support in Tsui Lam (Location B)	0 days	16/6/20	16/6/20	Calendar Day			681	0 days	0 days	100%	16/6/20	16/6/20
55	CE65 - Landscaping Survey near Po Yip Road and Pung Loi Road	0 days	17/6/20	17/6/20	Calendar Day			0 days	0 days	0 days	100%	17/6/20	17/6/20
56	CE25 - Unforeseen Underground Condition during Trench Excavation at Wan Po Road between CH.A6+68 and CH.A6+88	0 days	29/6/20	29/6/20	Calendar Day			176	0 days	0 days	100%	29/6/20	29/6/20
57	CE28A - Affected Trees along Cycle Track next to Hong Kong Velodrome and Tseung Kwan O Sports Ground	0 days	30/6/20	30/6/20	Calendar Day			0 days	0 days	0 days	100%	30/6/20	30/6/20
58	CE68 - TIA for TIA at Po Lam Road	0 days	20/7/20	20/7/20	Calendar Day			0 days	0 days	0 days	100%	20/7/20	20/7/20
59	CE51 - Realignment of Water Main in Tsui Lam Section	0 days	3/8/20	3/8/20	Calendar Day			590,592,593,594,595,596	0 days	0 days	100%	3/8/20	3/8/20
60	CE65 - Landscape Survey near Po Yip Road and Pung Loi Road	0 days	11/6/20	11/6/20	Calendar Day			207	1613 days	1613 days	0 days	NA	NA
61	CE67 - Affected Trees near Pung Loi Road, Po Yip Road and Wan Po Road	0 days	22/12/20	22/12/20	Calendar Day			208	1419 days	1419 days	0 days	NA	NA
62	CE60 - Realignment of Water Main near Pung Loi Road	0 days	27/5/21	27/5/21	Calendar Day			212	1263 days	1263 days	0 days	NA	NA
63	CE59 - Realignment of Water Main near Pung Loi Road and Po Yip Road	0 days	13/11/20	13/11/20	Calendar Day			233	1458 days	1458 days	0 days	NA	NA
64	CE77 - Design of Water Main Structure and Modification Works to the Affected Geotechnical Features in Wan Po Road and Lohas Park Road	0 days	21/10/20	21/10/20	Calendar Day			417	1481 days	1481 days	0 days	NA	NA
65	CE67 - Realignment of Water Main near Wan Po Road and Lohas Park Road	0 days	11/8/21	11/8/21	Calendar Day			422	1187 days	1187 days	0 days	NA	NA
66	CE98 - Tree Felling at Lohas Park Road	0 days	18/1/21	18/1/21	Calendar Day			427	1392 days	1392 days	0 days	NA	NA
67	CE94 - Site Clearance of Affected Trees and Plants for Mainlaying works near Po Hong Road and Ling Hong Road	0 days	18/12/20	18/12/20	Calendar Day			485	1423 days	1423 days	0 days	NA	NA
68	CE57 - Realignment of Water Main by Trenchless Method in SENTX	0 days	18/1/22	18/1/22	Calendar Day			752	1027 days	1027 days	0 days	NA	NA
69	CE53, 61, 88, 89, 92 & 93 for Inclement Weather	0 days	6/4/20	6/4/20	Calendar Day			1679 days	1679 days	1679 days	0 days	NA	NA
70	Preliminaries	1511 days	7/11/17	26/12/21	Calendar Day			0 days	0 days	1511 days	100%	7/11/17	26/12/21
71	Site Establishment	220 days	2/1/18	9/8/18	Calendar Day			0 days	0 days	220 days	100%	2/1/18	9/8/18
72	Setting up PM's and Contractor Accommodation	90 days	12/5/18	9/8/18	Calendar Day			73	0 days	0 days	100%	12/5/18	9/8/18
73	Completion of PM's and Contractor Accommodation	0 days	9/8/18	9/8/18	Calendar Day			0 days	0 days	0 days	100%	9/8/18	9/8/18
74	Initial Survey of the Site	60 days	2/1/18	2/3/18	Calendar Day			0 days	0 days	60 days	100%	2/1/18	2/3/18
75	Submission and Permit Application	1250 days	7/11/17	9/4/21	Calendar Day			0 days	0 days	1250 days	100%	7/11/17	9/4/21
76	Submission of draft Safety Plan	14 days	7/11/17	20/11/17	Calendar Day			88	0 days	0 days	100%	7/11/17	20/11/17
77	Submission of Safety Plan	35 days	7/11/17	11/12/17	Calendar Day			88	0 days	0 days	100%	7/11/17	11/12/17
78	Submission of Environmental Management Plan	45 days	7/11/17	21/12/17	Calendar Day			107	0 days	0 days	100%	7/11/17	21/12/17
79	Submission of Site Management Plan and Trip Ticket	45 days	7/11/17	21/12/17	Calendar Day			88	0 days	0 days	100%	7/11/17	21/12/17
80	Submission of Key Person (Technical Manager)	14 days	7/11/17	20/11/17	Calendar Day								

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

Original Contract due Date: 18/5/2021
 Dividing Date: 14/4/2022
 CES1: 6/10/2022
 CES7(Section II): 7/2/2023
 Planned Completion: 10/11/2023

ID	ID	Task Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	Pre Risk	Final Risk	Percent	Actual Start	Actual Finish	2021	2022	2023
94		Regular SLG meeting	1040 days	30/1/18	4/12/20	Calendar Day	85		0 days	0 days 1040 days	100%	30/1/18	4/12/20			
95		Submission of Method Statement (Open Cut)	14 days	15/2/18	28/2/18	Calendar Day	129	99	0 days	0 days 14 days	100%	15/2/18	28/2/18			
96		Submission of Method Statement (Pipe Jacking)	14 days	15/2/18	28/2/18	Calendar Day	129	101	0 days	0 days 14 days	100%	15/2/18	28/2/18			
97		Submission of Temporary Design (Open Cut)	30 days	15/2/18	16/3/18	Calendar Day	129	99	0 days	0 days 30 days	100%	15/2/18	16/3/18			
98		Submission of Temporary Design (Pipe Jacking)	30 days	15/2/18	16/3/18	Calendar Day	129	101	0 days	0 days 30 days	100%	15/2/18	16/3/18			
99		ICE Checking and Certificate (Open Cut)	7 days	17/3/18	23/3/18	Calendar Day	97,95	100	0 days	0 days 7 days	100%	17/3/18	23/3/18			
100		ICE Checking & Certification for revised MS & temp. design (open cut)	1040 days	24/3/18	26/1/21	Calendar Day	99		0 days	0 days 1040 days	100%	24/3/18	26/1/21			
101		ICE Checking and Certificate (Pipe Jacking)	7 days	17/3/18	23/3/18	Calendar Day	96,98	102	0 days	0 days 7 days	100%	17/3/18	23/3/18			
102		ICE Checking & Certificate for revised MS & temp. design (pipe jacking)	1040 days	24/3/18	26/1/21	Calendar Day	101		0 days	0 days 1040 days	100%	24/3/18	26/1/21			
103		Submission and Approval of other materials	1000 days	16/11/17	11/8/20	Calendar Day	5		0 days	0 days 1000 days	100%	16/11/17	11/8/20			
104		Appointment of Environmental Team	2 days	14/2/18	15/2/18	Calendar Day	131	105	0 days	0 days 2 days	100%	14/2/18	15/2/18			
105		Environmental Baseline Monitoring	14 days	16/2/18	1/3/18	Calendar Day	104	106	0 days	0 days 14 days	100%	16/2/18	1/3/18			
106		Submission of Environmental Baseline Monitoring Report	14 days	2/3/18	15/3/18	Calendar Day	105	107	0 days	0 days 14 days	100%	2/3/18	15/3/18			
107		Environment Monitoring and EM&A	1070 days	16/3/18	17/2/21	Calendar Day	78,106		0 days	0 days 1070 days	100%	16/3/18	17/2/21			
108		As-constructed Drawing	1000 days	1/4/18	25/12/20	Calendar Day	143		0 days	0 days 1000 days	100%	1/4/18	25/12/20			
109		BIM model	1000 days	1/4/18	25/12/20	Calendar Day	147		0 days	0 days 1000 days	100%	1/4/18	25/12/20			
110		Submission of PN25 Pipes and Fittings for CE01	45 days	12/7/18	25/8/18	Calendar Day	13	111	0 days	0 days 45 days	100%	12/7/18	25/8/18			
111		Approval of PN25 Pipes and Fittings for CE01	45 days	26/8/18	9/10/18	Calendar Day	110	154	0 days	0 days 45 days	100%	26/8/18	9/10/18			
112		Subcontracting	1066 days	16/11/17	16/10/20	Calendar Day	0		0 days	0 days 1066 days	100%	16/11/17	16/10/20			
113		Submission and Approval	117 days	16/11/17	12/3/18	Calendar Day	0		0 days	0 days 117 days	100%	16/11/17	12/3/18			
114		Submission of sub-contractor selection procedure	24 days	16/11/17	9/12/17	Calendar Day	5	115	0 days	0 days 24 days	100%	16/11/17	9/12/17			
115		Approval of sub-contractor selection procedure	42 days	10/12/17	20/1/18	Calendar Day	114	121,122,123,126,128,130,110	0 days	0 days 42 days	100%	10/12/17	20/1/18			
116		Submission of Sub-contractor Condition	14 days	16/11/17	29/11/17	Calendar Day	5	117	0 days	0 days 14 days	100%	16/11/17	29/11/17			
117		Approval of Sub-contractor Condition	42 days	30/11/17	10/1/18	Calendar Day	116	121,122,126,128,130,132,110	0 days	0 days 42 days	100%	30/11/17	10/1/18			
118		Submission of Supplier Selection Procedure	75 days	16/11/17	29/1/18	Calendar Day	5	119	0 days	0 days 75 days	100%	16/11/17	29/1/18			
119		Approval of Supplier Selection Procedure	42 days	30/1/18	12/3/18	Calendar Day	118	150	0 days	0 days 42 days	100%	30/1/18	12/3/18			
120		Subcontractor Selection and Subcontracting	1066 days	16/11/17	16/10/20	Calendar Day	0		0 days	0 days 1066 days	100%	16/11/17	16/10/20			
121		Consultancy: Independent Checking Engineer for Investigation Works	27 days	21/1/18	16/2/18	Calendar Day	117,115	473	0 days	0 days 27 days	100%	21/1/18	16/2/18			
122		Construction of Temporary site office, hoarding and project sign board	75 days	21/1/18	5/4/18	Calendar Day	117,115		0 days	0 days 75 days	100%	21/1/18	5/4/18			
123		Trial Pit Excavation	30 days	21/1/18	19/2/18	Calendar Day	115,5	472	0 days	0 days 30 days	100%	21/1/18	19/2/18			
124		Traffic Consultant for Investigation Works	30 days	16/11/17	15/12/17	Calendar Day	5	85	0 days	0 days 30 days	100%	16/11/17	15/12/17			
125		Consultancy: Landscape for Investigation Works	30 days	16/11/17	15/12/17	Calendar Day	5	472	0 days	0 days 30 days	100%	16/11/17	15/12/17			
126		Tender list for traffic consultant	9 days	21/1/18	29/1/18	Calendar Day	117,115	127	0 days	0 days 9 days	100%	21/1/18	29/1/18			
127		Consultancy: Traffic consultant	55 days	30/1/18	25/3/18	Calendar Day	126		0 days	0 days 55 days	100%	30/1/18	25/3/18			
128		Tender list for independent checking engineer	13 days	21/1/18	2/2/18	Calendar Day	117,115	129	0 days	0 days 13 days	100%	21/1/18	2/2/18			
129		Consultancy: Independent Checking Engineer	12 days	3/2/18	14/2/18	Calendar Day	128	95,96,97,98	0 days	0 days 12 days	100%	3/2/18	14/2/18			
130		Tender List for Environmental Team	15 days	21/1/18	4/2/18	Calendar Day	117,115	131	0 days	0 days 15 days	100%	21/1/18	4/2/18			
131		Environmental Team	9 days	5/2/18	13/2/18	Calendar Day	130	104	0 days	0 days 9 days	100%	5/2/18	13/2/18			
132		Tender List (Trenchless): Batch 1	14 days	21/1/18	3/2/18	Calendar Day	117,115	133,134	0 days	0 days 14 days	100%	21/1/18	3/2/18			
133		Tender for Trenchless Batch 1	42 days	12/7/18	22/8/18	Calendar Day	131,132		0 days	0 days 42 days	100%	12/7/18	22/8/18			
134		Tender list (Trenchless): Batch 2	15 days	4/2/18	18/2/18	Calendar Day	132	135	0 days	0 days 15 days	100%	4/2/18	18/2/18			
135		Tender for Trenchless Batch 2	42 days	19/2/18	18/2/18	Calendar Day	134		0 days	0 days 42 days	100%	19/2/18	18/2/18			
136		Tender List (Open Cut Excavation): Batch 1	15 days	19/2/18	3/3/18	Calendar Day	117,115	137,138	0 days	0 days 15 days	100%	19/2/18	3/3/18			
137		Tender for Open Cut Excavation Batch 1	42 days	12/7/18	22/8/18	Calendar Day	136,13	473	0 days	0 days 42 days	100%	12/7/18	22/8/18			
138		Tender List (Open cut excavation): Batch 2	28 days	12/7/18	8/8/18	Calendar Day	136,13	139	0 days	0 days 28 days	100%	12/7/18	8/8/18			
139		Tender for open cut excavation Batch 2	42 days	9/8/18	19/9/18	Calendar Day	138	745	0 days	0 days 42 days	100%	9/8/18	19/9/18			
140		Tender List (Landscaping)	15 days	21/1/18	4/2/18	Calendar Day	117,115	141	0 days	0 days 15 days	100%	21/1/18	4/2/18			
141		Tender of Landscaping	42 days	5/2/18	18/3/18	Calendar Day	140	728	0 days	0 days 42 days	100%	5/2/18	18/3/18			
142		Tender List (Survey services)	28 days	21/1/18	17/2/18	Calendar Day	117,115,143	143	0 days	0 days 28 days	100%	21/1/18	17/2/18			
143		Tender of Survey Services	42 days	18/2/18	31/3/18	Calendar Day	142	108	0 days	0 days 42 days	100%	18/2/18	31/3/18			
144		Tender List (Cathodic Protection)	28 days	16/8/19	12/9/19	Calendar Day	117,115,30	145	0 days	0 days 28 days	100%	16/8/19	12/9/19			
145		Tender of Cathodic Protection	42 days	13/9/19	24/10/19	Calendar Day	144	157	0 days	0 days 42 days	100%	13/9/19	24/10/19			
146		Tender List (BIM)	28 days	21/1/18	17/2/18	Calendar Day	117,115,147	147	0 days	0 days 28 days	100%	21/1/18	17/2/18			
147		Tender for BIM	42 days	18/2/18	31/3/18	Calendar Day	146	109	0 days	0 days 42 days	100%	18/2/18	31/3/18			
148		Miscellaneous	1000 days	21/1/18	16/10/20	Calendar Day	117,115		0 days	0 days 1000 days	100%	21/1/18	16/10/20			
149		Procurement of Major Materials	1385 days	13/3/18	26/12/21	Calendar Day	0		0 days	0 days 1385 days	100%	13/3/18	26/12/21			
150		Preparation of Purchase Order	7 days	13/3/18	19/3/18	Calendar Day	119,90	151	0 days	0 days 7 days	100%	13/3/18	19/3/18			
151		1st Batch of Material Delivery	65 days	20/3/18	23/5/18	Calendar Day	150	152	0 days	0 days 65 days	100%	20/3/18	23/5/18			
152		1st Batch of Material Delivery on site	1 day	24/5/18	24/5/18	Calendar Day	151	153	0 days	0 days 1 day	100%	24/5/18	24/5/18			
153		Material Delivery by Batches	1312 days	25/5/18	26/12/21	Calendar Day	152		0 days	0 days 1312 days	100%	25/5/18	26/12/21			
154		Preparation of CE01 Purchase Order	7 days	10/10/18	16/10/18	Calendar Day	111	155	0 days	0 days 7 days	100%	10/10/18	16/10/18			
155		1st Batch of CE01 Material Delivery	90 days	17/10/18	14/1/19	Calendar Day	154	156	0 days	0 days 90 days	100%	17/10/18	14/1/19			
156		1st Batch of CE01 Material Delivery on site	23 days	15/1/19	6/2/19	Calendar Day	155		0 days	0 days 23 days	100%	15/1/19	6/2/19			
157		SCAP Material Submission and Approval	261 days	25/10/19	11/7/20	Calendar Day	145	158	0 days	0 days 261 days	100%	25/10/19	11/7/20			
158		SCAP Purchase Order & Material Delivery	100 days	12/7/20	19/10/20	Calendar Day	157		0 days	0 days 100 days	100%	12/7/20	19/10/20			
159		Mainlaying in Tseung Kwan O (Section I)	1662 days	20/2/18	28/9/23	HK Working Day	7		7 days	7 days 1662 days	84%	20/2/18	NA			
160		Excavation, Pipe Laying, Backfilling and Reinforcement (CH.A0+90 to A42+10)	1462 days	20/2/18	28/9/23	HK Working Day	7		7 days	7 days 1462 days	75%	20/2/18	NA			
161		Open Cut	1331 days	23/8/18	20/2/23	HK Working Day	181		181 days	181 days 1331 days	96%	23/8/18	NA			
162		Wan Po Road Workfront 1 (CH.A0+00 - CH.A3+62(P1 A))	840 days	10/3/18	14/2/21	HK Working Day	834		0 days	0 days 840 days	100%	10/3/18	14/2/21			
163		CH.A0+00 - CH.A0+14 OC	45 days	27/3/18	25/5/18	HK Working Day	790		0 days	0 days 45 days	100%	27/3/18	25/5/18			
164		CH.A0+14 - CH.A0+50 OC	156 days	23/5/18	26/11/18	HK Working Day	0		0 days	0 days 156 days	100%	23/5/18	26/11/18			
165		CH.A0+50 - CH.A1+50 OC	42 days	10/9/18	31/10/18	HK Working Day	166		0 days	0 days 42 days	100%	10/9/18	31/10/18			

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

Original Contract due Date: 18/5/2021
 Dividing Date: 14/4/2022
 CES1: 6/10/2022
 CES7(Section I): 7/2/2023
 CES7(Section II): 27/7/2023
 Planned Completion: 10/11/2023

ID	ID	Task Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	Planned Start	Planned Finish	% Complete	Actual Start	Actual Finish	2018	2019	2020	2021	2022	2023	2024	
196	196	Issue CE No. 19 - Change in Design of Gate Valve Chamber at Wan Po Road near CH. A12+40	1 day	22/8/19	22/8/19	Calendar Day	31		0 days	0 days 1 day	100%	22/8/19	22/8/19								
197	197	EWN No.23 (Covered by CNE No.16 & CE No. 18) - Unforeseen Ground Conditions at Open Trench of Mainlaying at Wan Po Road between CHA12+89 and CHA13+04	1 day	4/12/18	4/12/18	Calendar Day			0 days	0 days 1 day	100%	4/12/18	4/12/18								
198	198	CH. A12+50 - 12+95 OC	125 days	19/9/18	21/2/19	HK Working Day			0 days	0 days 125 days	100%	19/9/18	21/2/19								
199	199	CH. A12+95 - 13+13 OC	84 days	9/11/18	21/2/19	HK Working Day		200	0 days	0 days 84 days	100%	9/11/18	21/2/19								
200	200	CH. A13+13 - 13+40 OC + DN150 DAV	65 days	30/11/22	20/2/23	HK Working Day	199,201		181 days	181 days 65 days	0%	NA	NA								
201	201	CH. A13+40 - 13+60 OC (PII A2)	40 days	14/10/22	19/11/22	HK Working Day	376		0 days	181 days 40 days	0%	NA	NA								
202	202	Water Main Nightwork Section (CH. A22+67.5 - CH. A12+10)	774 days	23/8/18	17/4/21	HK Working Day			0 days	0 days 774 days	100%	23/8/18	17/4/21								
203	203	Suspension of Nightwork Section due to Restriction with Railway Protection Zone, TMLG requirements and failure of application for CNP	1 day	3/8/20	3/8/20	Calendar Day			0 days	0 days 1 day	100%	3/8/20	3/8/20								
204	204	CE05 - Feasibility Study of Realignment of Pipeline at TKO Stage 1 Landfill	188 days	23/8/18	26/2/19	Calendar Day	15		0 days	0 days 188 days	100%	23/8/18	26/2/19								
205	205	CE10 - Contractor Design of The Realignment - at the Junction of Wan Po Road and Pung Loi Avenue	249 days	28/7/19	3/11/19	Calendar Day	20		0 days	0 days 249 days	100%	28/7/19	3/11/19								
206	206	CE35 - Feasibility Study on the Alternative Alignment by Trenchless method beneath MTR's Tunnels in the Wan Po Road /fo Lohas Park Road	270 days	31/12/19	25/9/20	Calendar Day	38		0 days	0 days 270 days	100%	31/12/19	25/9/20								
207	207	CE65 - Landscape Survey near Po Yap Road and Pung Loi Road	1 day	11/6/20	11/6/20	Calendar Day	60		0 days	0 days 1 day	100%	11/6/20	11/6/20								
208	208	CE87 - Affected Trees near Pung Loi Road, Po Yap Road and Wan Po Road	1 day	22/12/20	22/12/20	Calendar Day	61	209	0 days	0 days 1 day	100%	22/12/20	22/12/20								
209	209	TRP Submission and Approval	60 days	22/12/20	8/3/21	HK Working Day	208	210	0 days	0 days 60 days	100%	22/12/20	8/3/21								
210	210	Site Possession and Tree Removal Works	21 days	9/3/21	1/4/21	HK Working Day	209	222,223	0 days	0 days 21 days	100%	9/3/21	1/4/21								
211	211	CE No. 60 - Realignment of Water Main near Pung Loi Road	390 days	17/5/21	10/6/22	Calendar Day		837	79 days	465 days 390 days	91%	17/5/21	NA								
212	212	Nightwork Section (CH. A36+00 - CH. A39+00) Superseded by CE60	1 day	27/5/21	27/5/21	Calendar Day	62	213	0 days	0 days 1 day	100%	27/5/21	27/5/21								
213	213	Tender Process and Tender Award	60 days	27/5/21	25/7/21	Calendar Day	212	214	0 days	0 days 60 days	100%	27/5/21	25/7/21								
214	214	Design & Method Statement Submission and Approval; Preparation Works	30 days	26/7/21	24/8/21	Calendar Day	213	215,219	0 days	0 days 30 days	100%	26/7/21	24/8/21								
215	215	TA preparation, SLG meetings and obtain RA	30 days	25/8/21	23/9/21	Calendar Day	214	222,223	0 days	0 days 30 days	100%	25/8/21	23/9/21								
216	216	Open Trench and trench Piling at Lohas Avenue	88 days	13/1/22	6/5/22	HK Working Day			0 days	0 days 88 days	100%	13/1/22	6/5/22								
217	217	Obtain Access from EPD (TKO Landfill Stage 1 Area B)	14 days	13/1/22	28/1/22	HK Working Day	328	219,218	0 days	0 days 14 days	100%	13/1/22	28/1/22								
218	218	3 Inspection pit excavations under existing flyover	14 days	29/1/22	17/2/22	HK Working Day	217	219	0 days	0 days 14 days	100%	29/1/22	17/2/22								
219	219	CH.FD0+00 - CH.FD0+65 OC	30 days	18/2/22	24/3/22	HK Working Day	214,217,218	220	0 days	0 days 30 days	100%	18/2/22	24/3/22								
220	220	Construction DN900 SV Chamber at CH.FD0+25	30 days	25/3/22	4/5/22	HK Working Day	219		0 days	0 days 30 days	100%	25/3/22	4/5/22								
221	221	Exposed Pipe from CH.FD0+65 to CH.FD0+100	135 days	24/9/21	9/3/22	HK Working Day			0 days	0 days 135 days	100%	24/9/21	9/3/22								
222	222	Excavation in Slope Toe; Construction of Flooding Protection Wall with U-Channel, Length = 135m, @12m per 12days	135 days	24/9/21	9/3/22	HK Working Day	210,215		0 days	0 days 135 days	100%	24/9/21	9/3/22								
223	223	Exposed Pipe, Length = 173m, with concrete saddle Supports	42 days	24/9/21	13/11/21	HK Working Day	210,215	224	0 days	0 days 42 days	100%	24/9/21	13/11/21								
224	224	DN1200 Pipe Laying on Concrete Support with Concrete Hunching	14 days	15/11/21	30/11/21	HK Working Day	223	225,227	0 days	0 days 14 days	100%	15/11/21	30/11/21								
225	225	Apply top coating of aliphatic polyurethane on site	30 days	1/12/21	7/1/22	HK Working Day	224	229	0 days	0 days 30 days	100%	1/12/21	7/1/22								
226	226	Open Trench Concrete Trenchrest and exposed Pipe	160 days	1/12/21	10/6/22	HK Working Day			181 days	181 days 160 days	88%	1/12/21	NA								
227	227	CH.FD2+00 to CH.FD3+15 OC	50 days	1/12/21	31/1/22	HK Working Day	224	228,229	0 days	0 days 50 days	100%	1/12/21	31/1/22								
228	228	CH.FD3+15 to CH.FD3+51 OC with DN900 Valve Chamber and By-pass Pipe and Connection to Pit WP1	60 days	4/2/22	2/4/22	HK Working Day	227	229,254	0 days	0 days 60 days	100%	4/2/22	2/4/22								
229	229	Make Good Slope Toe and Landscape Work	60 days	4/4/22	20/6/22	HK Working Day	225,227,228		381 days	381 days 60 days	15%	4/4/22	NA								
230	230	CE59 - Water Main near Pung Loi Road and Po Yap Road (CH.FE0+00 - CH.A3+58)	608 days	20/8/20	17/9/22	HK Working Day		837	0 days	314 days 608 days	37%	20/8/20	NA								
231	231	Inspection Pit at Working Pit WP1	7 days	20/8/20	27/8/20	HK Working Day			0 days	0 days 7 days	100%	20/8/20	27/8/20								
232	232	Inspection Pit at Working Pit GIA	7 days	2/11/20	9/11/20	HK Working Day			0 days	0 days 7 days	100%	2/11/20	9/11/20								
233	233	CE59 - Realignment of Water Main near Pung Loi Road and Po Yap Road	1 day	13/11/20	13/11/20	HK Working Day	63	234,238	0 days	0 days 1 day	100%	13/11/20	13/11/20								
234	234	Tender Process and Tender Award for CE No. 59	60 days	13/11/20	25/1/21	HK Working Day	233	235,236,237	0 days	0 days 60 days	100%	13/11/20	25/1/21								
235	235	Design & Method Statement Submission and Approval; Preparation Works for Pit JIA	30 days	26/1/21	4/3/21	HK Working Day	234	245	0 days	0 days 30 days	100%	26/1/21	4/3/21								
236	236	Design & Method Statement Submission and Approval; Preparation Works for Pit GIA	30 days	26/1/21	4/3/21	HK Working Day	234		0 days	0 days 30 days	100%	26/1/21	4/3/21								
237	237	Design & Method Statement Submission and Approval; Preparation Works for Pit WP1	30 days	26/1/21	4/3/21	HK Working Day	234	242	0 days	0 days 30 days	100%	26/1/21	4/3/21								
238	238	TA preparation, SLG meetings and obtain RA	60 days	13/11/20	25/1/21	HK Working Day	233	240,243,241	0 days	0 days 60 days	100%	13/11/20	25/1/21								
239	239	Construction of 1500mm dia Pipe using Method	273 days	25/1/21	29/12/21	HK Working Day			0 days	0 days 273 days	100%	25/1/21	29/12/21								
240	240	Obtain consent for vehicular access construction for WP1	1 day	25/1/21	25/1/21	HK Working Day	238		0 days	0 days 1 day	100%	25/1/21	25/1/21								
241	241	Tree Trimming at WP1	2 days	3/11/21	4/11/21	HK Working Day	238	242	0 days	0 days 2 days	100%	3/11/21	4/11/21								
242	242	Jacking Pit WP1 (Near Pung Loi Road)	45 days	5/11/21	29/12/21	HK Working Day	241,237	247	0 days	0 days 45 days	100%	5/11/21	29/12/21								
243	243	Planter Removal and Access Formation to pit GIA	7 days	26/1/21	2/2/21	HK Working Day	238	244	0 days	0 days 7 days	100%	26/1/21	2/2/21								
244	244	Receiving Pit GIA (Near Po Yap Road)	45 days	3/2/21	30/3/21	HK Working Day	243	250,260	0 days	0 days 45 days	100%	3/2/21	30/3/21								
245	245	Construction of Jacking Pit JIA	30 days	5/3/21	13/4/21	HK Working Day	235	257	0 days	0 days 30 days	100%	5/3/21	13/4/21								
246	246	Trenchless between Pit WP1 and Pit GIA and Pipe Installation	284 days	10/12/21	1/9/22	HK Working Day			318 days	318 days 284 days	82%	10/12/21	NA								
247	247	TBM Establishment at Pit WP1	14 days	30/12/21	15/1/22	HK Working Day	242	248	0 days	0 days 14 days	100%	30/12/21	15/1/22								
248	248	Jacking DN1600 Precast Concrete Sleeve Pipe (224m; 3.0m/day)	75 days	17/1/22	21/4/22	HK Working Day	247	249	0 days	314 days 75 days	96%	17/1/22	NA								
249	249	Remove setup including Thrust Wall at Pit WP1	14 days	22/4/22	10/5/22	HK Working Day	248	250	0 days	314 days 14 days	0%	NA	NA								
250	250	Setup for Pipe Laying inside Jacking Pit WP1	6 days	11/5/22	17/5/22	HK Working Day	249,244	251	0 days	314 days 6 days	0%	NA	NA								
251	251	DN1200 MS Pipe Laying inside Jacking Pipe (224m) (2 days per 8m)	56 days	18/5/22	23/7/22	HK Working Day	250	252	0 days	314 days 56 days	0%	NA	NA								
252	252	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	25/7/22	27/7/22	HK Working Day	251	253	0 days	314 days 3 days	0%	NA	NA								
253	253	Grouting Works (30m per day)	8 days	28/7/22	5/8/22	HK Working Day	252	254	0 days	314 days 8 days	0%	NA	NA								
254	254	Pipe Connection inside Working Pit WP1 and Concrete Thrust Block	14 days	6/8/22	22/8/22	HK Working Day	253,228	255	0 days	314 days 14 days	0%	NA	NA								
255	255	Remove ELS including extracting sheet piles at Pit WP1; Reinstatement	14 days	23/8/22	7/9/22	HK Working Day	254		314 days	314 days 14 days	0%	NA	NA								

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

Original Contract due Date: 18/5/2021
Dividing Date: 14/4/2022
CES1: 6/10/2022
CES7(Section I): 7/7/2023
Planned Completion (for A-D): 10/11/2023

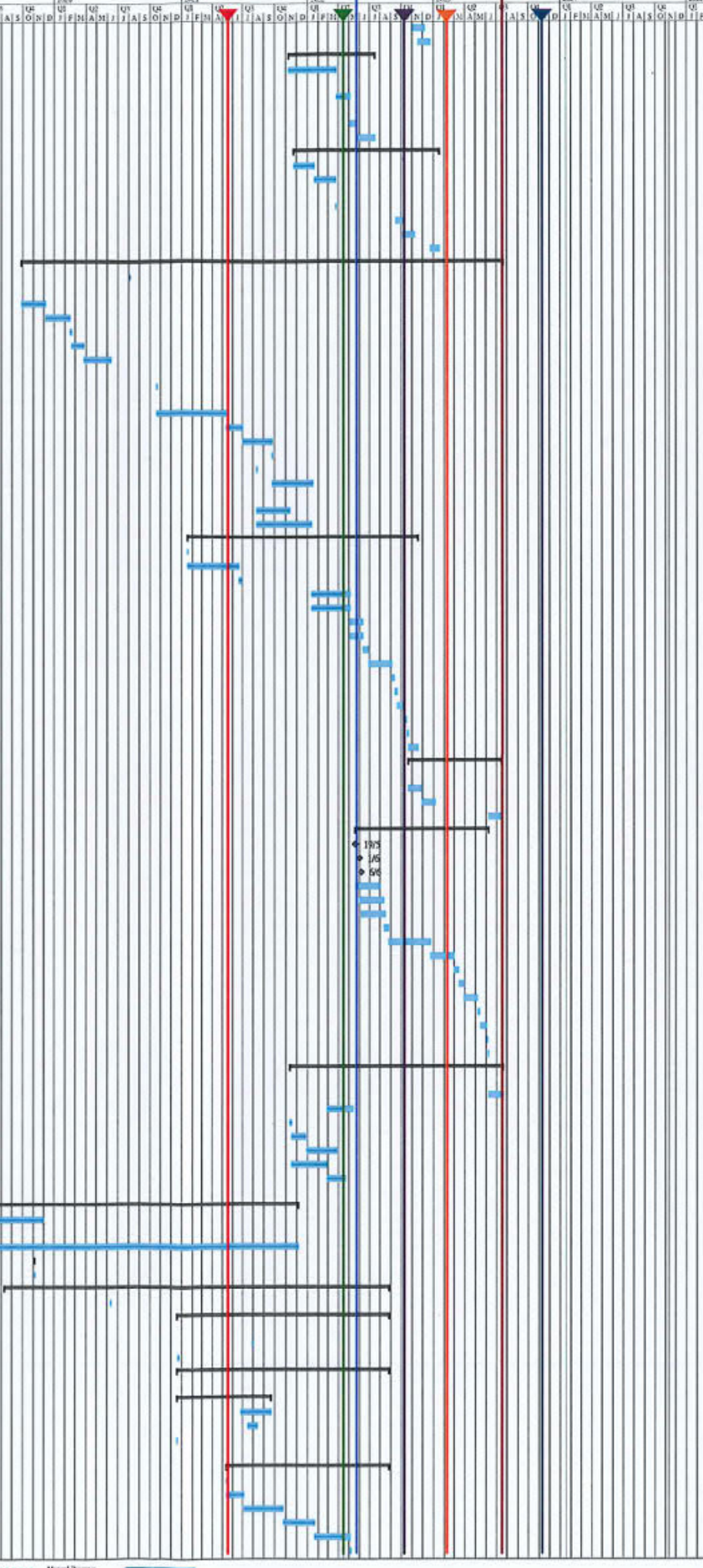
Table with columns: ID, Task Name, Duration, Start, Finish, Task Comment, Predecessors, Successors, Bar Start, Bar End, Duration, % Complete, Actual Start, Actual Finish. Includes a Gantt chart on the right side.



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

Original Contract due Date: 18/5/2021
Dividing Date: 14/4/2022
CES1: 6/10/2022
CES7(Section II): 7/2/2023
Planned Completion (WPA A-D): 10/11/2023

Main project schedule table with columns: ID, Task Name, Duration, Start, Finish, Task Category, Predecessors, Resources, Base Work, Total Work, % Complete, Actual Start, Actual Finish. Includes tasks like Pipe Connection Works, TBM Establishment, and various construction activities.



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

Original Contract due Date: 18/5/2021
 Dividing Date: 14/4/2022
 CE51: 6/10/2022
 CE57(Section I): 7/2/2023
 CE67(Section III): 27/7/2023
 Planned Completion (WPA-A-D): 10/11/2023

ID	ID	Task Name	Duration	Start	Finish	Task Category	Predecessors	Successors	Per Stack	Total Stack	Duration	% Complete	Actual Start	Actual Finish	2021	2022	2023	2024
688	688	Site Clearance and Mobilization	69 days	14/12/20	10/3/21	HK Working Day	686,684	690	0 days	0 days 69 days	100%	14/12/20	10/3/21					
689	689	Mini-pile Foundation Works	239 days	11/3/21	29/12/21	HK Working Day			0 days	0 days 239 days	100%	11/3/21	29/12/21					
690	690	Erect Temporary Timber Platform for Piling Works	25 days	11/3/21	13/4/21	HK Working Day	688	691	0 days	0 days 25 days	100%	11/3/21	13/4/21					
691	691	Pre-drilling works & confirmation of rock head and depth of mini-pile	40 days	14/4/21	1/6/21	HK Working Day	690	692	0 days	0 days 40 days	100%	14/4/21	1/6/21					
692	692	Mobilization and Driving Dia. 273mm steel Casting (18 nos)	48 days	2/6/21	29/7/21	HK Working Day	691	693	0 days	0 days 48 days	100%	2/6/21	29/7/21					
693	693	Clearing, insert T50 reinforcement and Grouting	18 days	30/7/21	19/8/21	HK Working Day	692	662,694	0 days	0 days 18 days	100%	30/7/21	19/8/21					
694	694	Setup and Loading Test of Mini-Pile	36 days	20/8/21	2/10/21	HK Working Day	693	695	0 days	0 days 36 days	100%	20/8/21	2/10/21					
695	695	Construction Pile Caps (PC-C, PC-P1, PC-P2, PC-P3 & PC-T) and Piers (P1, P2 & P3)	72 days	4/10/21	29/12/21	HK Working Day	694	697	0 days	0 days 72 days	100%	4/10/21	29/12/21					
696	696	Pipelining on Mini-pile Foundation	60 days	30/12/21	16/3/22	HK Working Day			0 days	0 days 60 days	100%	30/12/21	16/3/22					
697	697	Temporary Working Platform for Pipe Installation	12 days	30/12/21	13/1/22	HK Working Day	695	698	0 days	0 days 12 days	100%	30/12/21	13/1/22					
698	698	Pipe Installation / Welding / Testing / Painting (~115m)	24 days	14/1/22	14/2/22	HK Working Day	697	699	0 days	0 days 24 days	100%	14/1/22	14/2/22					
699	699	Concrete Hunching	12 days	15/2/22	28/2/22	HK Working Day	698	700	0 days	0 days 12 days	100%	15/2/22	28/2/22					
700	700	Apply top coating of aliphatic polyurethane on site	6 days	1/3/22	7/3/22	HK Working Day	699	701	0 days	0 days 6 days	100%	1/3/22	7/3/22					
701	701	Remove Temporary Working Platform	6 days	8/3/22	14/3/22	HK Working Day	700	708	0 days	0 days 6 days	100%	8/3/22	14/3/22					
702	702	From Tsui Lam Road to TKO Freshwater FSR (CH.HE.0+00 ~ CH.HE2+11) & (CH.HF0+00 CH.HF+31)	692 days	6/9/20	29/7/22	Calendar Day			433 days	433 days 692 days	87%	6/9/20	NA					
703	703	Batch No 3 - Temporary Works Design and Preliminary Works	30 days	6/9/20	5/10/20	Calendar Day		596	0 days	0 days 30 days	100%	6/9/20	5/10/20					
704	704	TIA preparation, SLG meetings, obtain BA	150 days	6/10/20	4/3/21	Calendar Day		703	0 days	0 days 150 days	100%	6/10/20	4/3/21					
705	705	Material procurement (DN800 MS PIPE) (360m)	255 days	6/9/20	18/5/21	Calendar Day		719,721,722,723	0 days	0 days 255 days	100%	6/9/20	18/5/21					
706	706	Material procurement (Butterfly Valves)	183 days	6/9/20	7/3/21	Calendar Day		556	0 days	0 days 183 days	100%	6/9/20	7/3/21					
707	707	Open Cut (CH.HE0+00 - CH.HE0+27)	108 days	15/9/22	27/7/22	HK Working Day			150 days	350 days 108 days	26%	15/9/22	NA					
708	708	Open Cut across Tsui Lam Road (CH.HE0+00 to 0+06)	48 days	15/9/22	16/5/22	HK Working Day	701	709	0 days	350 days 48 days	54%	15/9/22	NA					
709	709	Open Cut across Tsui Lam Road (CH.HE0+06 to 0+20)	60 days	17/5/22	27/7/22	HK Working Day	708	840	44 days	350 days 60 days	0%	NA	NA					
710	710	Open Cut (CH.HE0+27 - CH.HE2+11) (1st 8)	359 days	14/5/21	29/7/22	HK Working Day		841	0 days	352 days 359 days	76%	14/5/21	NA					
711	711	Issue CE No. 114 - Non-explosive agent near TKO Freshwater Preliminary Service Reservoir	1 day	14/5/21	14/5/21	Calendar Day			0 days	0 days 1 day	100%	14/5/21	14/5/21					
712	712	Receiving of Drawing No. SK40134/S25 for Proposed Alternative Alignment at TKOFWSR	1 day	20/8/21	20/8/21	HK Working Day		713,714,715,719,721,722,70	0 days	0 days 1 day	100%	20/8/21	20/8/21					
713	713	Open Cut, CH.HE0+20 - CH.HE0+27 (Excavation in Rock)	59 days	20/8/21	30/10/21	HK Working Day	712		0 days	0 days 59 days	100%	20/8/21	30/10/21					
714	714	Open Cut, CH.HE0+27 - CH.HE1+98 (Excavation in Rock)	254 days	20/8/21	30/6/22	HK Working Day	712		376 days	376 days 254 days	76%	20/8/21	NA					
715	715	Construction of Combined EMF and MBV Chamber at CH.HE1+90	128 days	20/8/21	22/1/22	HK Working Day	712	716	0 days	0 days 128 days	100%	20/8/21	22/1/22					
716	716	Open Cut CH.1+98 & connecting to the existing DN800 F.W. Main at CH.HE2+11	60 days	24/1/22	7/4/22	HK Working Day	715	717	0 days	0 days 60 days	100%	24/1/22	7/4/22					
717	717	Construction of flowmeter kiosks and GI cable ducts for Combined EMF and MBV Chamber at CH.HE1+90	90 days	8/4/22	29/7/22	HK Working Day	716		352 days	352 days 90 days	7%	8/4/22	NA					
718	718	Water Main CH.HF0+00 - CH.HF3+10 (Inlet A)	150 days	21/8/21	22/2/22	HK Working Day		841	0 days	0 days 150 days	100%	21/8/21	22/2/22					
719	719	Open Cut CH.HF0+00 - CH.HF0+19	67 days	21/8/21	10/11/21	HK Working Day	705,712	720	0 days	0 days 67 days	100%	21/8/21	10/11/21					
720	720	Open Cut CH.HF0+19 - CH.HF1+30	60 days	11/11/21	22/1/22	HK Working Day	719		0 days	0 days 60 days	100%	11/11/21	22/1/22					
721	721	Construction of Combined EMF and MBV Chamber at CH.HF1+30	60 days	21/8/21	2/11/21	HK Working Day	705,712	726	0 days	0 days 60 days	100%	21/8/21	2/11/21					
722	722	Open Cut CH.HF1+30 - CH.HF1+36	31 days	21/8/21	27/9/21	HK Working Day	705,712		0 days	0 days 31 days	100%	21/8/21	27/9/21					
723	723	Exposed Pipe CH.HF1+36 - CH.HF2+85	53 days	21/8/21	25/10/21	HK Working Day	705,712	725	0 days	0 days 53 days	100%	21/8/21	25/10/21					
724	724	Exposed Pipe to the side wall of TKOFWSR	18 days	5/11/21	25/11/21	HK Working Day	725		0 days	0 days 18 days	100%	5/11/21	25/11/21					
725	725	Form Opening and Cast-in short pipe at TKOFWSR	9 days	26/10/21	4/11/21	HK Working Day	723	724	0 days	0 days 9 days	100%	26/10/21	4/11/21					
726	726	Construction of flowmeter kiosks and GI cable ducts for Combined EMF and MBV Chamber at CH.HF1+90	90 days	3/11/21	22/2/22	HK Working Day	721		0 days	0 days 90 days	100%	3/11/21	22/2/22					
727	727	Landscaping Works	154 days	19/3/18	22/9/18	HK Working Day			0 days	0 days 154 days	100%	19/3/18	22/9/18					
728	728	Tree Survey of Existing Trees	45 days	19/3/18	2/5/18	Calendar Day		741,730	0 days	0 days 45 days	100%	19/3/18	2/5/18					
729	729	Tree Planting for Compensation	90 days	6/6/18	20/9/18	HK Working Day		827	0 days	0 days 90 days	100%	6/6/18	20/9/18					
730	730	Tree Felling (B1, B2)	3 days	3/5/18	5/5/18	HK Working Day		728	0 days	0 days 3 days	100%	3/5/18	5/5/18					
731	731	Tree Felling (B3 - B6)	4 days	7/5/18	10/5/18	HK Working Day		730	0 days	0 days 4 days	100%	7/5/18	10/5/18					
732	732	Tree Felling (B9 - B11)	2 days	11/5/18	12/5/18	HK Working Day		731	0 days	0 days 2 days	100%	11/5/18	12/5/18					
733	733	Tree Felling (B12 - B17)	3 days	14/5/18	16/5/18	HK Working Day		732	0 days	0 days 3 days	100%	14/5/18	16/5/18					
734	734	Tree Felling (B18)	2 days	17/5/18	18/5/18	HK Working Day		733	0 days	0 days 2 days	100%	17/5/18	18/5/18					
735	735	Tree Felling (B19 - B22)	2 days	19/5/18	21/5/18	HK Working Day		734	0 days	0 days 2 days	100%	19/5/18	21/5/18					
736	736	Tree Felling (B23)	4 days	23/5/18	24/5/18	HK Working Day		735	0 days	0 days 4 days	100%	23/5/18	24/5/18					
737	737	Tree Felling (B24 - B29)	4 days	25/5/18	29/5/18	HK Working Day		736	0 days	0 days 4 days	100%	25/5/18	29/5/18					
738	738	Tree Felling (B30 - B32)	2 days	30/5/18	31/5/18	HK Working Day		737	0 days	0 days 2 days	100%	30/5/18	31/5/18					
739	739	Tree Felling (B33)	2 days	1/6/18	2/6/18	HK Working Day		738	0 days	0 days 2 days	100%	1/6/18	2/6/18					
740	740	Tree Felling (B34 - B35)	2 days	4/6/18	5/6/18	HK Working Day		739	0 days	0 days 2 days	100%	4/6/18	5/6/18					
741	741	Tree Preservation	130 days	3/5/18	22/9/18	HK Working Day		728	0 days	0 days 130 days	100%	3/5/18	22/9/18					
742	742	Mainlaying in Tseung Kwan O (Section II)	1112 days	19/9/18	22/12/22	None			200 days	200 days 1112 days	90%	19/9/18	NA					
743	743	Excavation, Pipe Laying, Backfilling and Reinstatement (CH.C0+00 to C15+01)	1263 days	19/9/18	22/12/22	HK Working Day		832	0 days	226 days 1263 days	20%	19/9/18	NA					
744	744	CE07 - Realignment of Pipelines from CH.C0+00 to CH.C12+00	1 day	22/1/19	22/1/19	HK Working Day		18	0 days	0 days 1 day	100%	22/1/19	22/1/19					
745	745	CE07 - Early Possession of Portion H	1 day	19/9/18	19/9/18	HK Working Day		139	0 days	0 days 1 day	100%	19/9/18	19/9/18					
746	746	CE07 - Trial Pit Excavation along Open Cut Trench	12 days	20/9/18	5/10/18	HK Working Day		745	0 days	0 days 12 days	100%	20/9/18	5/10/18					
747	747	CE07 - HDPE Pipe, Fitting and Valves Procurement and Delivery in Batches	1 day	22/1/19	22/1/19	HK Working Day		744	0 days	0 days 1 day	100%	22/1/19	22/1/19					
748	748	CE17 - Construction Method for Pipeline from CH.C14+82 - CH.C15+81 being changed to Trenchless Method	1 day	3/1/20	3/1/20	HK Working Day		749	0 days	0 days 1 day	100%	3/1/20	3/1/20					
749	749	CE17 - Tendering and Subletting	60 days	3/1/20	16/3/20	HK Working Day		748	0 days	0 days 60 days	100%	3/1/20	16/3/20					
750	750	CE17 - Method Statement and Temporary Works Design Submission	30 days	17/3/20	24/4/20	HK Working Day		749	0 days	0 days 30 days	100%	17/3/20	24/4/20					
751	751	CE17 - Method Statement Submission for TBM	30 days	17/3/20	24/4/20	HK Working Day		749	0 days	0 days 30 days	100%	17/3/20	24/4/20					
752	752	CE57 - Realignment of Water Main by Trenchless Method in SENTX	1 day	18/1/22	18/1/22	HK Working Day		68	0 days	0 days 1 day	100%	18/1/22	18/1/22					
753																		

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

Original Contract due Date: 18/5/2021
 Dividing Date: 14/4/2022
 CES1: 6/10/2022
 CES7(Section II): 7/2/2023
 Planned Completion (WPA A.D.): 10/11/2023

ID	ID	Task Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	Pipe Slack	Final Slack	Duration	% Complete	Actual Start	Actual Finish	2021	2022	2023	2024
789	789	Construction of Pit 137B	60 days	25/4/20	8/7/20	HK Working Day	785,750,787	791	0 days	0 days 60 days	100%	25/4/20	8/7/20					
790	790	TBM Sleeve Pipe Jacking from Pit 137B to Pit 137A	215 days	9/7/20	26/3/21	HK Working Day	163	163	0 days	0 days 215 days	100%	9/7/20	26/3/21					
791	791	Establishment at Pit 137B	30 days	9/7/20	12/8/20	HK Working Day	789	792	0 days	0 days 30 days	100%	9/7/20	12/8/20					
792	792	OD1920 Steel Sleeve Pipe for both DN1200 & NS250 (Pit 137B - Pit 137A) (CH.CC0+10 to CH.CC.1+24) in Soil (114m; 3m/day)	38 days	13/8/20	25/9/20	HK Working Day	791	793	0 days	0 days 38 days	100%	13/8/20	25/9/20					
793	793	Remove setup at Pit 137B	6 days	26/9/20	5/10/20	HK Working Day	792	794	0 days	0 days 6 days	100%	26/9/20	5/10/20					
794	794	Setup for Pipe Laying at Pit 137B	6 days	6/10/20	12/10/20	HK Working Day	793	795	0 days	0 days 6 days	100%	6/10/20	12/10/20					
795	795	DN1200 MS Pipe Laying inside jacking pipe (114m) (8m per 3 days)	43 days	13/10/20	2/12/20	HK Working Day	794	796	0 days	0 days 43 days	100%	13/10/20	2/12/20					
796	796	NS250 HDPE Pipe Laying inside jacking pipe (114m) (8m per day)	15 days	3/12/20	19/12/20	HK Working Day	795	797	0 days	0 days 15 days	100%	3/12/20	19/12/20					
797	797	Formwork & Setup for Grouting the gap between pipe and Sleeve pipe	9 days	2/1/21	2/1/21	HK Working Day	796	798	0 days	0 days 9 days	100%	2/1/21	2/1/21					
798	798	Grouting Works (30 meter/day)	24 days	4/1/21	30/1/21	HK Working Day	797	799,800	0 days	0 days 24 days	100%	4/1/21	30/1/21					
799	799	Pipe Laying (HB, BV, Short Pipe), Thrust Block & backfilling inside Pit 137A	14 days	1/2/21	19/2/21	HK Working Day	798	800	0 days	0 days 14 days	100%	1/2/21	19/2/21					
800	800	Remove ELS and Extract Sheetpile at Pit 137A	30 days	20/2/21	26/3/21	HK Working Day	799	800	0 days	0 days 30 days	100%	20/2/21	26/3/21					
801	801	CE57 - Trenchless Work between Pit 137B & Pit 137C	798 days	17/3/20	24/11/22	HK Working Day	822		0 days	226 days 798 days	61%	17/3/20	NA					
802	802	Inspection Pit Excavation - Pit 137C	14 days	17/3/20	1/4/20	HK Working Day	800	806	0 days	0 days 14 days	100%	17/3/20	1/4/20					
803	803	Inspection Pit Excavation - Pit 137C	14 days	17/3/20	1/4/20	HK Working Day	753	806	0 days	0 days 14 days	100%	17/3/20	1/4/20					
804	804	Construction Jacking / Receiving Pits	52 days	18/1/21	22/3/21	HK Working Day	806	808	0 days	0 days 52 days	100%	18/1/21	22/3/21					
805	805	Mobilization, Setup and Preliminary Works	3 days	18/1/21	20/1/21	HK Working Day	806	806	0 days	0 days 3 days	100%	18/1/21	20/1/21					
806	806	Construction of Pit 137C	49 days	21/1/21	22/3/21	HK Working Day	756,805,803	808	0 days	0 days 49 days	100%	21/1/21	22/3/21					
807	807	TBM Sleeve Pipe Jacking from Pit 137B to Pit 137C	497 days	23/3/21	12/11/22	HK Working Day	808		226 days	226 days 497 days	56%	23/3/21	NA					
808	808	Revised Establishment at Pit 137B	39 days	23/3/21	12/5/21	HK Working Day	805,757,798	809	0 days	0 days 39 days	100%	23/3/21	12/5/21					
809	809	OD1920 Steel Sleeve Pipe for both DN1200 & NS250 (from Pit 137B - Pit 137C) (CH.CB0+00 to CH.CB.2+46) in Soil (246m; 1.5m/day)	164 days	13/5/21	26/11/21	HK Working Day	808	810	0 days	0 days 164 days	100%	13/5/21	26/11/21					
810	810	Annulus Grouting and Remove setup at Pit 137B	41 days	27/11/21	17/1/22	HK Working Day	809	811	0 days	0 days 41 days	100%	27/11/21	17/1/22					
811	811	Setup for Pipe Laying at Pit 137B	28 days	18/1/22	22/2/22	HK Working Day	810	812,813	0 days	0 days 28 days	100%	18/1/22	22/2/22					
812	812	DN1200 MS Pipe Laying inside jacking pipe (246m) (8m per 3 days)	93 days	23/2/22	18/6/22	HK Working Day	811	814	0 days	222 days 93 days	46%	23/2/22	NA					
813	813	NS250 HDPE Pipe Laying inside jacking pipe (246m) (8m per day)	4 days	23/2/22	26/2/22	HK Working Day	811	814	0 days	0 days 4 days	100%	23/2/22	26/2/22					
814	814	Formwork & Setup for Grouting the gap between pipe and Sleeve pipe	3 days	15/6/22	17/6/22	HK Working Day	812,813	815	0 days	226 days 3 days	0%	NA	NA					
815	815	Grouting Works (20 meter/day)	13 days	18/6/22	4/7/22	HK Working Day	814	816,818	0 days	226 days 13 days	0%	NA	NA					
816	816	Pipe Connection and Construction of Combined Inspection Pit and Washout Chamber (Type III) at Pit 137C	66 days	5/7/22	20/9/22	HK Working Day	815	817	0 days	226 days 66 days	0%	NA	NA					
817	817	Thrust Block & backfilling inside Pit 137C	24 days	21/9/22	20/10/22	HK Working Day	816	819	0 days	226 days 24 days	0%	NA	NA					
818	818	Pipe Connection, Thrust Block & backfilling inside Pit 137B	30 days	5/7/22	8/8/22	HK Working Day	815	820	0 days	286 days 30 days	0%	NA	NA					
819	819	Remove ELS and Extract Sheetpile at Pit 137C	30 days	21/10/22	24/11/22	HK Working Day	817	820	226 days	226 days 30 days	0%	NA	NA					
820	820	Remove ELS and Extract Sheetpile at Pit 137B	30 days	9/8/22	13/9/22	HK Working Day	818	820	286 days	286 days 30 days	0%	NA	NA					
821	821	NS250 HDPE Pipe Static Pressure, Pipeline Cleaning, CCTV Inspection, Sterilization, Water Sampling and Handover to WSD	24 days	25/11/22	22/12/22	HK Working Day			226 days	226 days 24 days	0%	NA	NA					
822	822	NS250 HDPE Pipe - Static Pressure Test - Portion H (Area 137)	7 days	25/11/22	2/12/22	HK Working Day	758,801,782	823	0 days	226 days 7 days	0%	NA	NA					
823	823	NS250 HDPE Pipe - Pipeline Cleaning and CCTV Inspection at Portion H (Area 137)	7 days	3/12/22	10/12/22	HK Working Day	822	824	0 days	226 days 7 days	0%	NA	NA					
824	824	NS250 HDPE Pipe - Sterilization and Water Sampling Portion H (Area 137)	7 days	12/12/22	19/12/22	HK Working Day	823	825	0 days	226 days 7 days	0%	NA	NA					
825	825	NS250 HDPE Pipe - Portion H (Area 137)	3 days	20/12/22	22/12/22	HK Working Day	824	825	226 days	226 days 3 days	0%	NA	NA					
826	826	Establishment	365 days	21/9/18	20/9/19	Calendar Day			0 days	0 days 365 days	100%	21/9/18	20/9/19					
827	827	Establishment of Landscape Works	365 days	21/9/18	20/9/19	Calendar Day	729		0 days	0 days 365 days	100%	21/9/18	20/9/19					
828	828	MS Pipe Static Pressure Test, Pipeline Cleaning, CCTV Inspection, Sterilization and Water Sampling	652 days	6/11/21	18/1/24	HK Working Day			252 days	252 days 652 days	13%	6/11/21	NA					
829	829	Static Pressure Test for DN1200 MS Pipe	711 days	6/11/21	17/10/23	Calendar Day			0 days	0 days 711 days	22%	6/11/21	NA					
830	830	Section II	308 days	6/11/21	11/1/23	None			0 days	199 days 308 days	50%	6/11/21	NA					
831	831	CE07 - DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.CA4+24 to CH.CT.2+65	14 days	6/11/21	22/11/21	HK Working Day	768,778	844	0 days	0 days 14 days	100%	6/11/21	22/11/21					
832	832	CE17 & CE57 - DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.CA4+24 to Wan Po Road (CH.A0+00)	14 days	23/12/22	11/1/23	HK Working Day	743	845	0 days	226 days 14 days	0%	NA	NA					
833	833	Section I	411 days	22/3/22	17/10/23	None			0 days	0 days 411 days	14%	22/3/22	NA					
834	834	DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Wan Po Road (CH.A0+00) to Pit D (CH.A.22+70)	14 days	29/9/23	17/10/23	HK Working Day	348,162,170,179,331,847		0 days	0 days 14 days	0%	NA	NA					
835	835	CE67 - DN1200 MS Pipe - Static Pressure Test From Pit D at SKR Carpark to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66)	7 days	20/7/23	27/7/23	HK Working Day	410	848	0 days	68 days 7 days	0%	NA	NA					
836	836	CE36 & CE34 - DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at TKO Landfill Stage I Area B (CH.FC.13+44)	14 days	22/3/22	7/4/22	HK Working Day	271,293	849	0 days	0 days 14 days	100%	22/3/22	7/4/22					
837	837	CE59 & CE60 - DN1200 MS Pipe - Static Pressure Test From TKO Landfill Stage I Area B (CH.FC.13+44) to Pit K at Po Yip Road Roundabout	14 days	8/9/22	24/9/22	HK Working Day	230,211	850	0 days	314 days 14 days	0%	NA	NA					
838	838	CE28 & CE50 - DN1200 MS Pipe - Static Pressure Test From Pit K at Po Yip Road Roundabout to Pit P at Po Shun Road Verge Area	14 days	4/5/22	20/5/22	HK Working Day	506,555	851	0 days	420 days 14 days	0%	NA	NA					
839	839	CE51 - DN1200 MS Pipe - Static Pressure Test From Pit P at Po Shun Road - Pit R at Control Site CS-108 (Abandoned Road)	14 days	27/8/22	13/9/22	HK Working Day	481	852	0 days	324 days 14 days	0%	NA	NA					
840	840	CE51 - DN1200 MS Pipe - Static Pressure Test From Pit R at Mau Wu Tsal Abandoned Road to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90)	14 days	19/9/22	6/10/22	HK Working Day	680,647,638,629,611,853		0 days	306 days 14 days	0%	NA	NA					
841	841	CE51 - DN800 & DN1200 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+70) to CH.J0+57 and to DN800 EMF & BV Chamber (CH.HE1+90)	10 days	30/7/22	10/8/22	HK Working Day	710,718	854	0 days	352 days 10 days	0%	NA	NA					
842	842	Pipeline Cleaning and CCTV Inspection for DN1200 MS Pipe	580 days	23/11/21	8/11/23	HK Working Day	856		0 days	249 days 580 days	33%	23/11/21	NA					
843	843	Section II	354 days	23/11/21	4/2/23	HK Working Day			475 days	475 days 354 days	50%	23/11/21	NA					
844	844	CE07 - DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.CA4+24 to CH.CT.2+65	18 days	23/11/21	13/12/21	HK Working Day	831		0 days	0 days 18 days	100%	23/11/21	13/12/21					
845	845	CE17 & CE57 - DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.CA4+24 to Wan Po Road (CH.A0+00)	18 days	12/1/23	4/2/23	HK Working Day	832		475 days	475 days 18 days	0%	NA	NA					
846	846	Section I	470 days	8/4/22	8/11/23	HK Working Day			249 days	249 days 470 days	4%	8/4/22	NA					
847	847	DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From Pit D at SKR Carpark to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66)	18 days	18/10/23	8/11/23	HK Working Day	834		249 days	249 days 18 days	0%	NA	NA					
848	848	CE67 - DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From Pit D at SKR Carpark to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66)	18 days	28/7/23	17/8/23	HK Working Day	835		317 days	317 days 18 days	0%	NA	NA					
849	849	CE36 & CE34 - DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at TKO Landfill Stage I Area B (CH.FC.13+44)	18 days	8/4/22	3/5/22	HK Working Day	836		701 days	701 days 18 days	33%	8/4/22	NA					
850	850	CE59 & CE60 - DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From TKO Landfill Stage I Area B (CH.FC.13+44) to Pit K at Po Yip Road Roundabout	18 days	26/9/22	18/10/22	HK Working Day	837		563 days	563 days 18 days	0%	NA	NA					
851																		

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

Original Contract due Date: 18/5/2021
 Dividing Date: 14/4/2022
 CE28: 20/5/2022
 CE51: 6/10/2022
 CE57(Section II): 7/2/2023
 CE67(Section II): 27/7/2023
 Planned Completion (WPR A-D): 10/11/2023

ID	ID	Task Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	Free Slack	Total Slack	Duration	% Complete	Actual Start	Actual Finish	Gantt Chart (2021-2023)																											
868	868	Backfill at T23+64 after completion of Water Sampling Test	1 day	15/5/19	15/5/19	HK Working Day	867	869	0 days	0 days 1 day	100%	15/5/19	15/5/19	[Gantt Chart Data]																												
869	869	Handover Portion J to WSD Region	1 day	15/5/19	15/5/19	HK Working Day	868		0 days	0 days 1 day	100%	15/5/19	15/5/19	[Gantt Chart Data]																												

Appendix B

Overview of Mainlaying in Tseung Kwan O

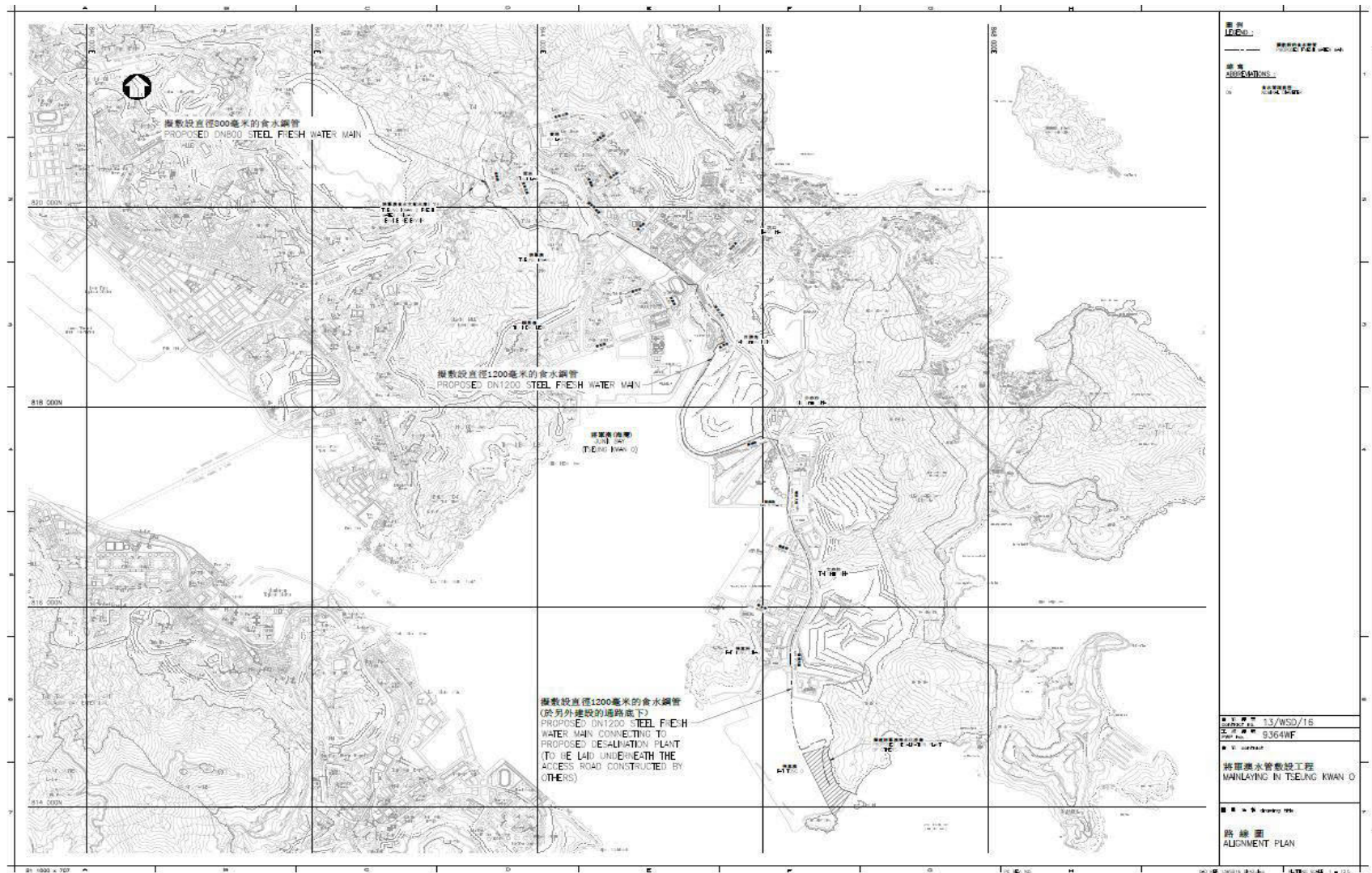


Figure B1. Overview of Mainlaying in TKO

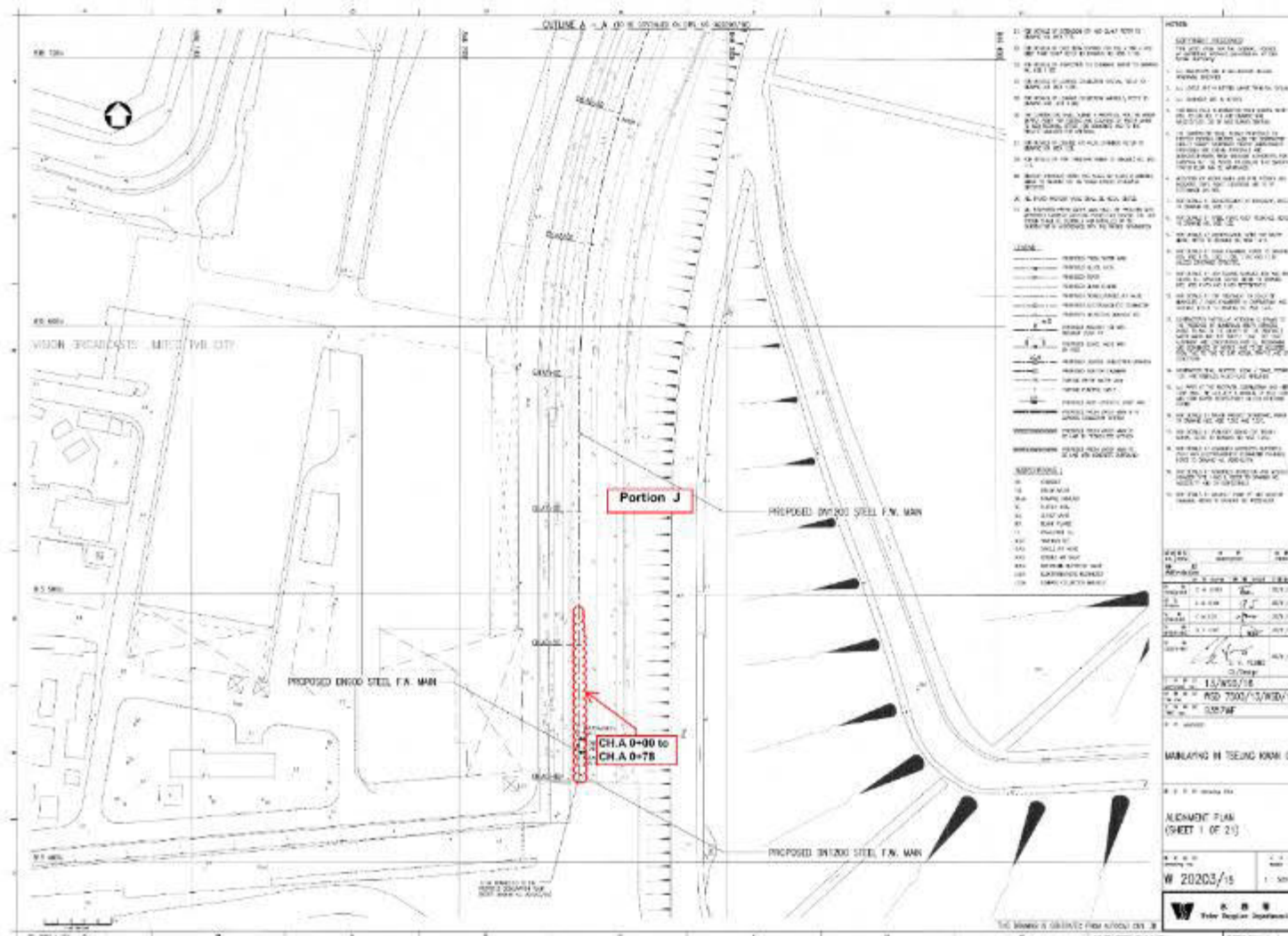


Figure B2. Location Plan for Portion J - CH.A 0+00 to CH.A 0+78

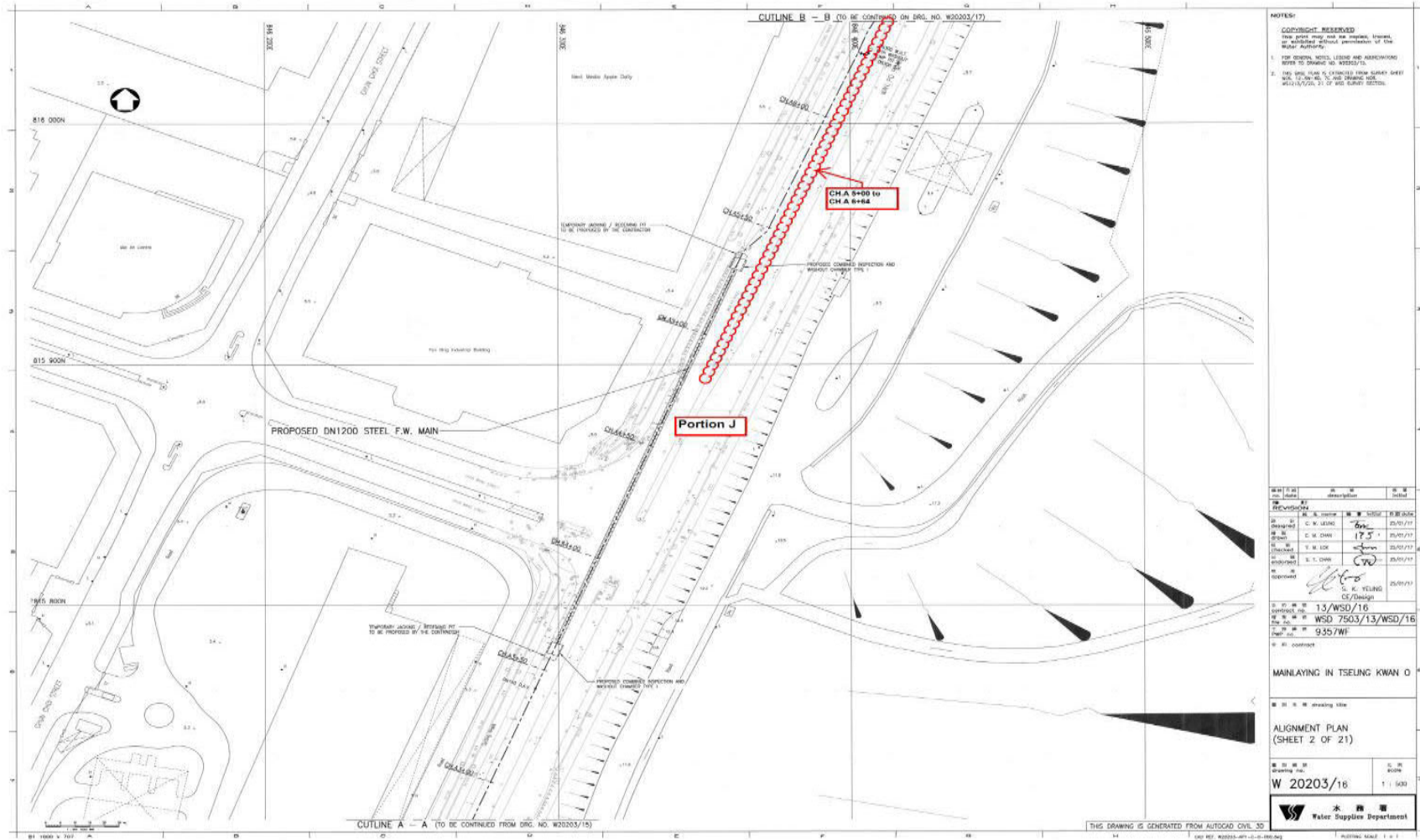


Figure B3. Location Plan for Portion J - CH.A 5+00 to CH.A 6+64

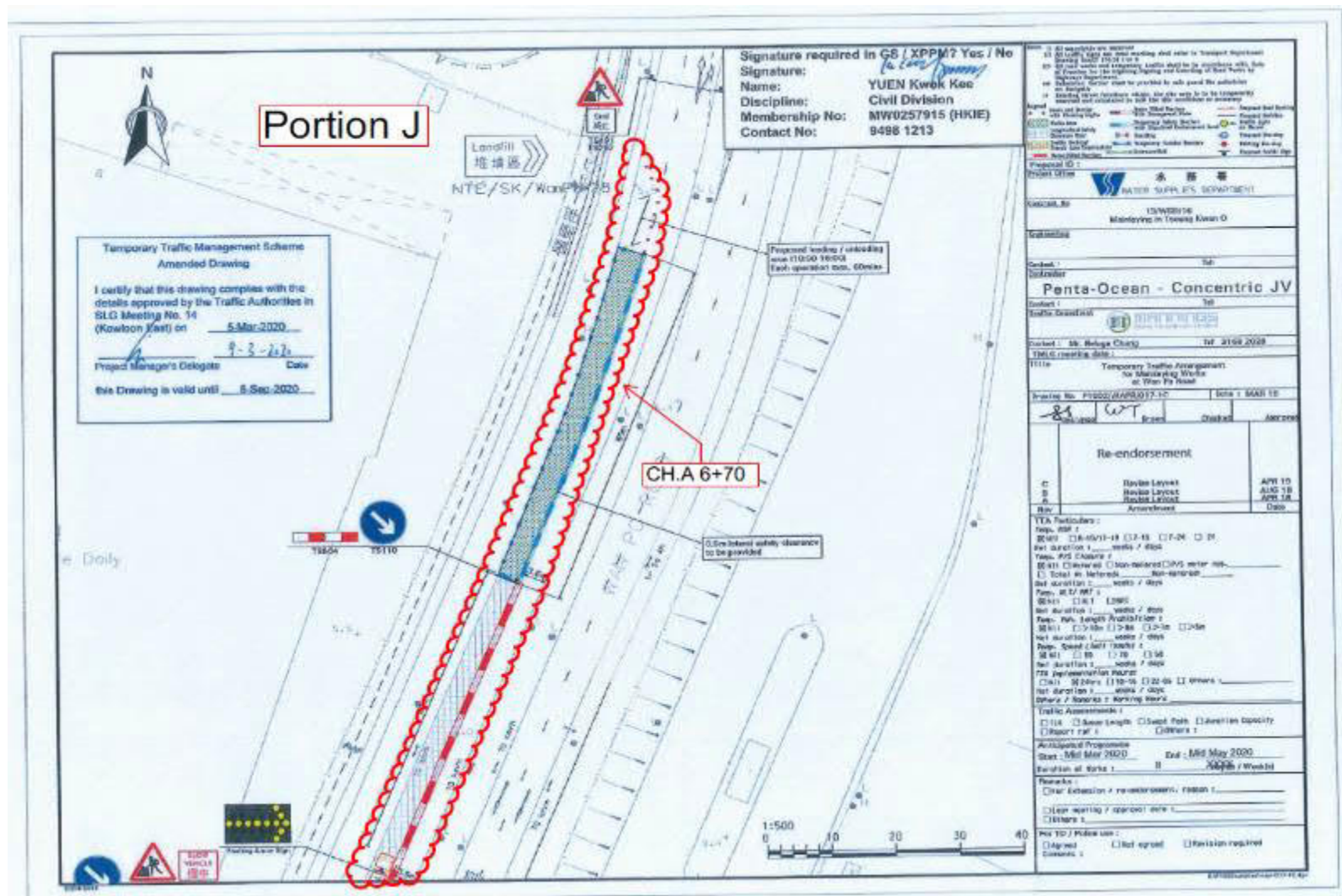


Figure B4. Location Plan for Portion J - CH.A 6+70

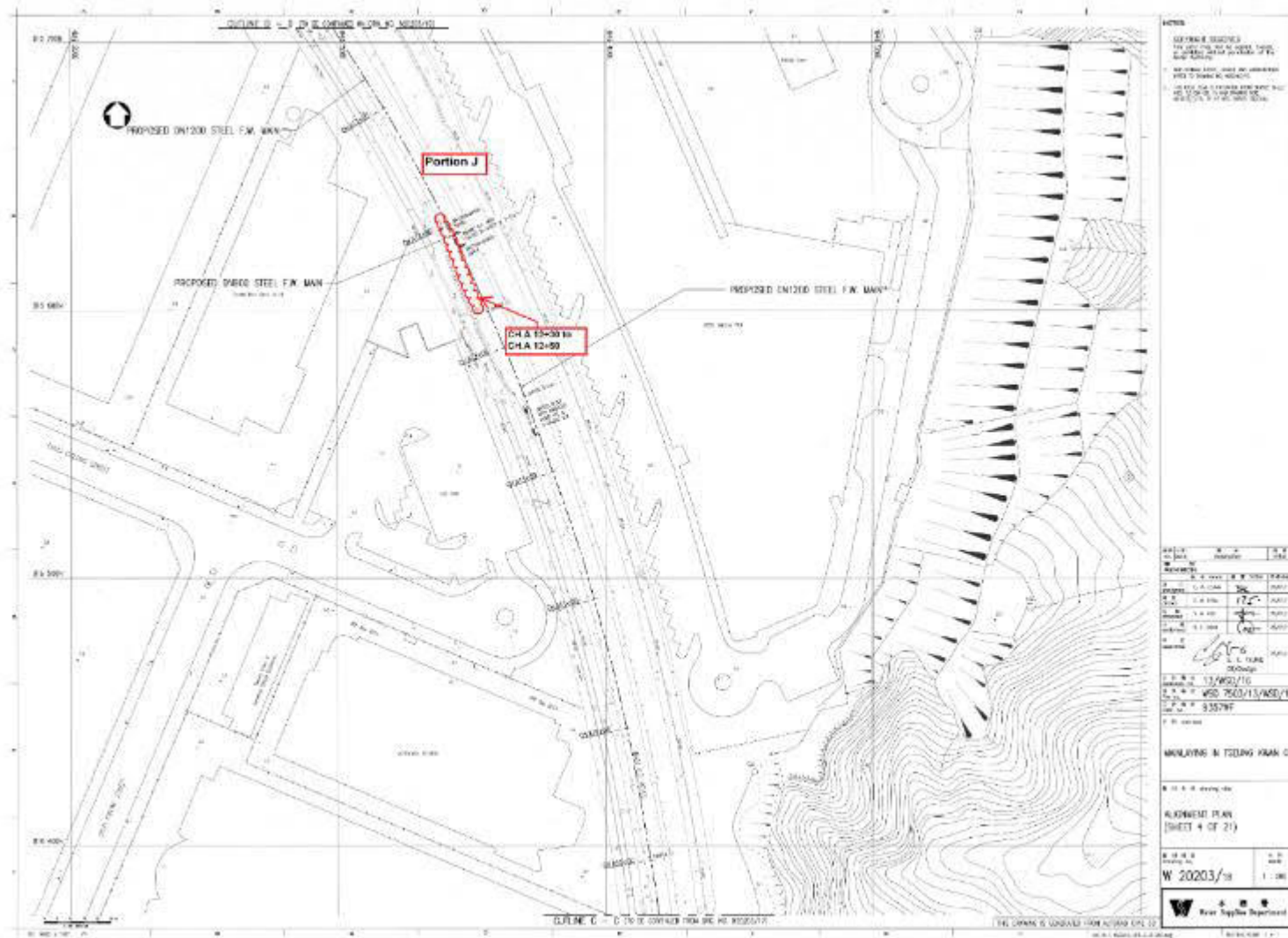


Figure B6. Location Plan for Portion J - CH.A 12+30 to CH.A 12+50

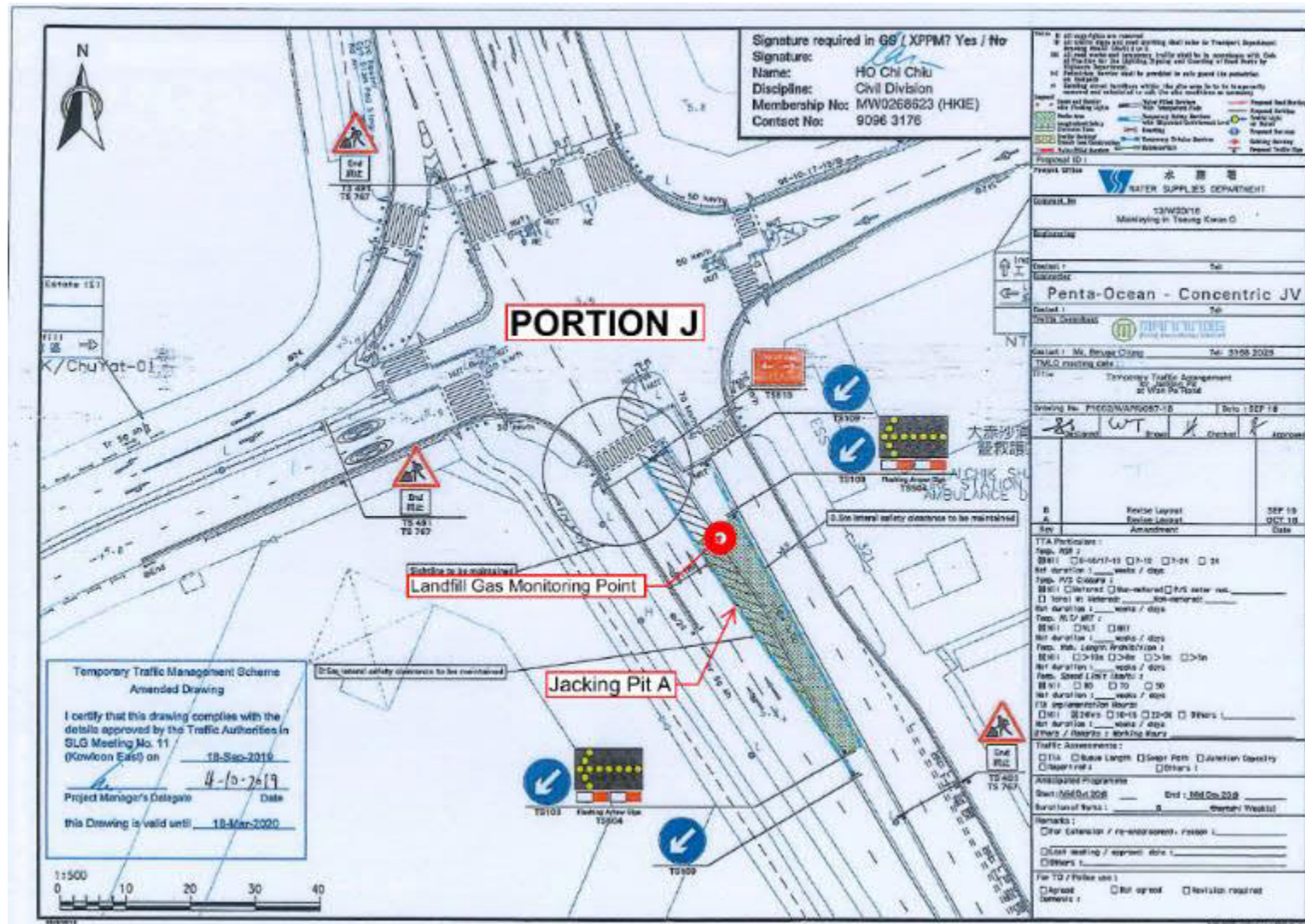


Figure B7. Location Plan for Portion J – CH. A13+50 to CH.A 14+00 (Pit A)

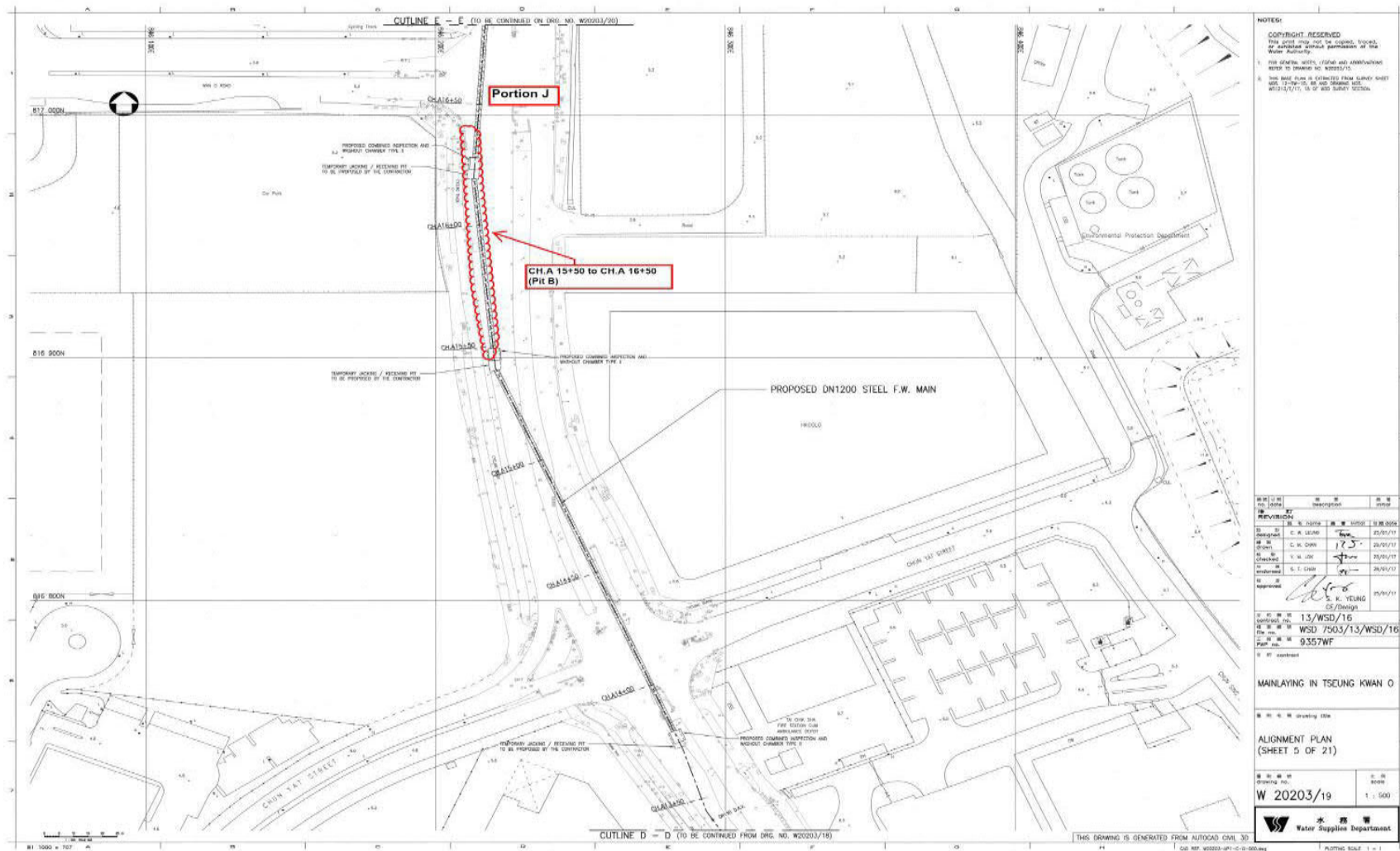


Figure B8. Location Plan for Portion J – CH. A15+50 to CH.A 16+50 (Pit B)

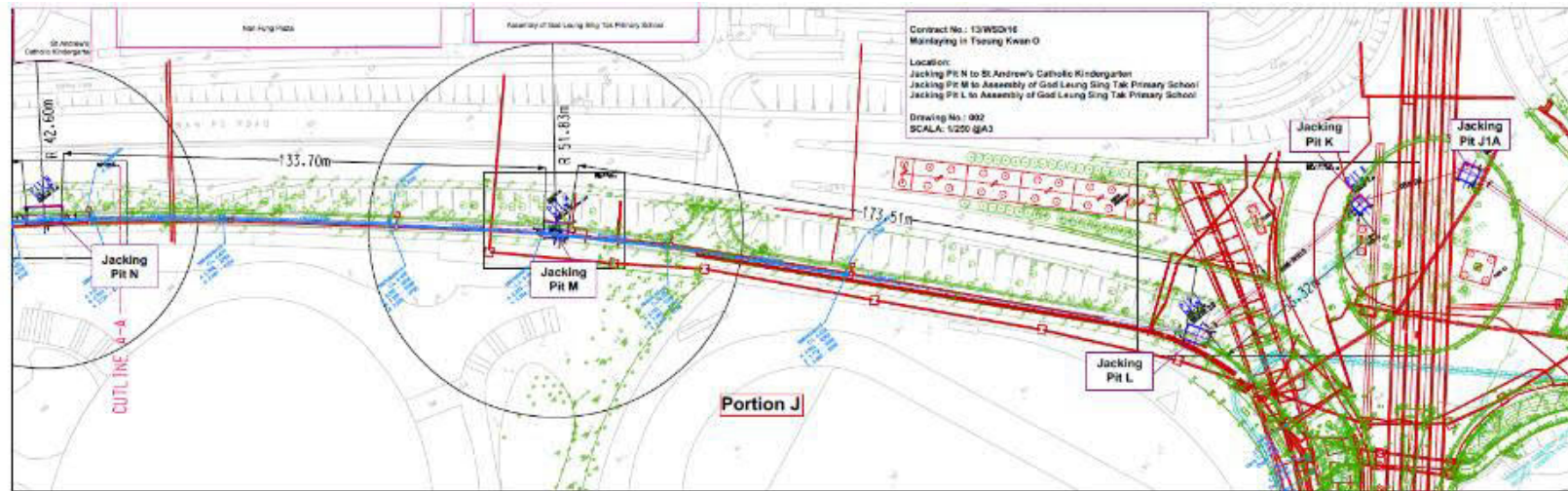


Figure B8a. Location Plan for Portion J – Pit L-M-N, K, J1A

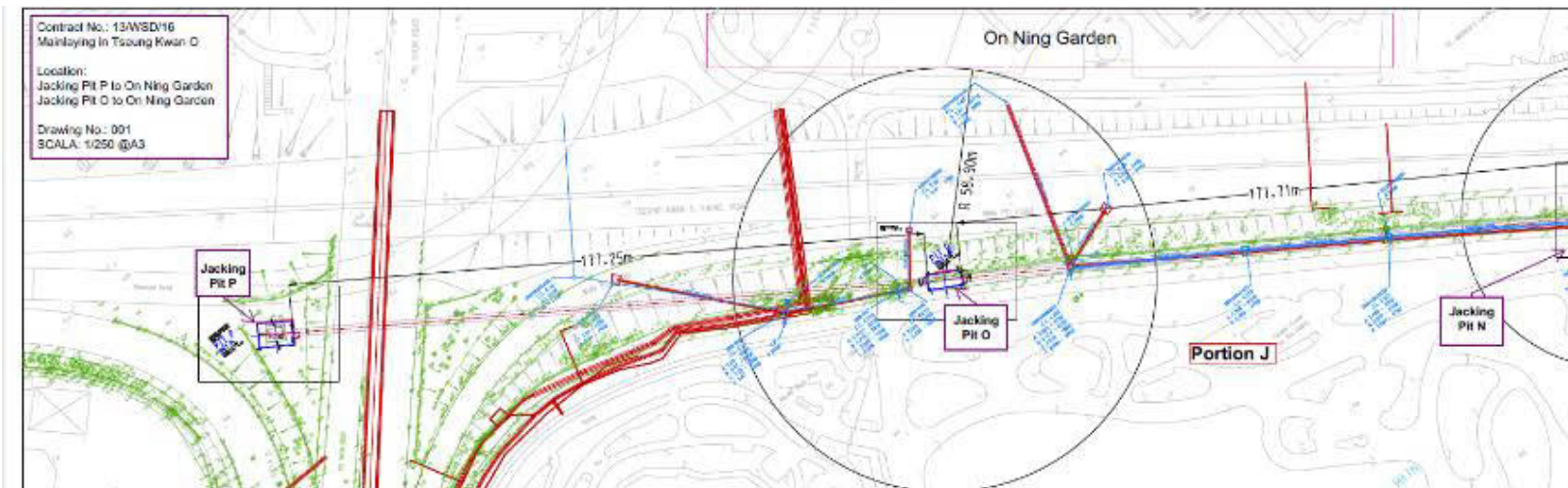


Figure B8b. Location Plan for Portion J – Pit N-O-P

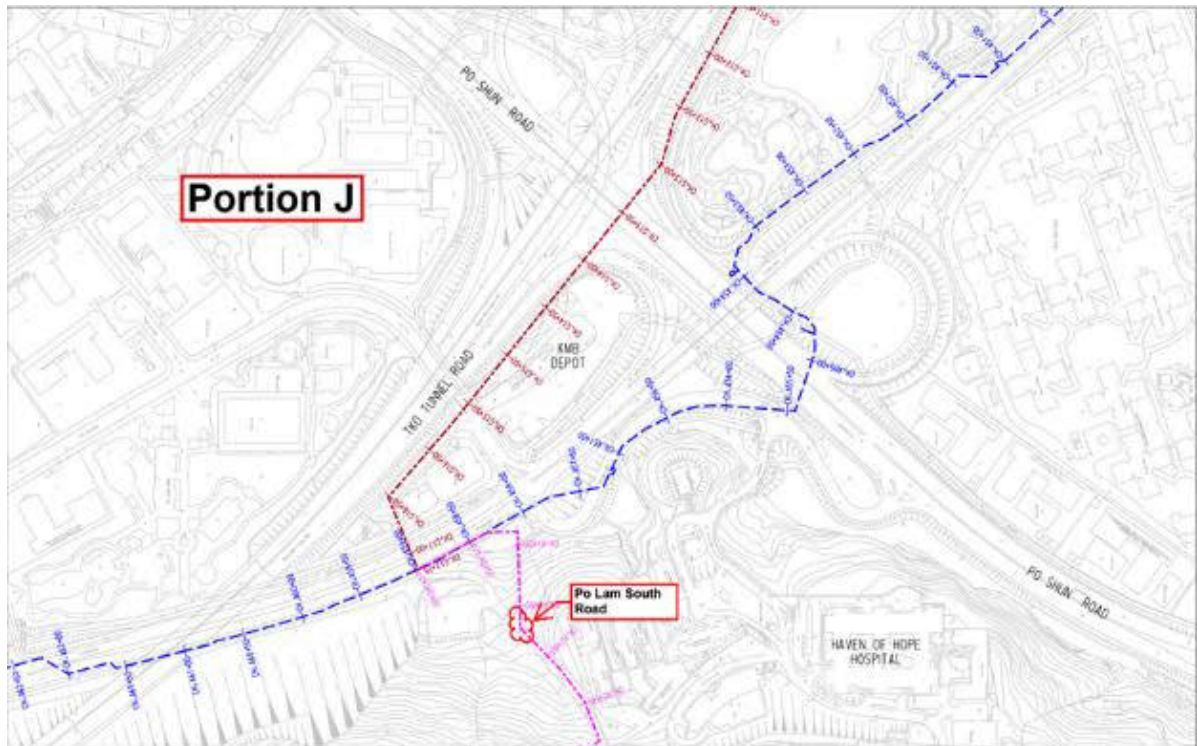


Figure B9a. Location Plan for Mau Wu Tsai 1

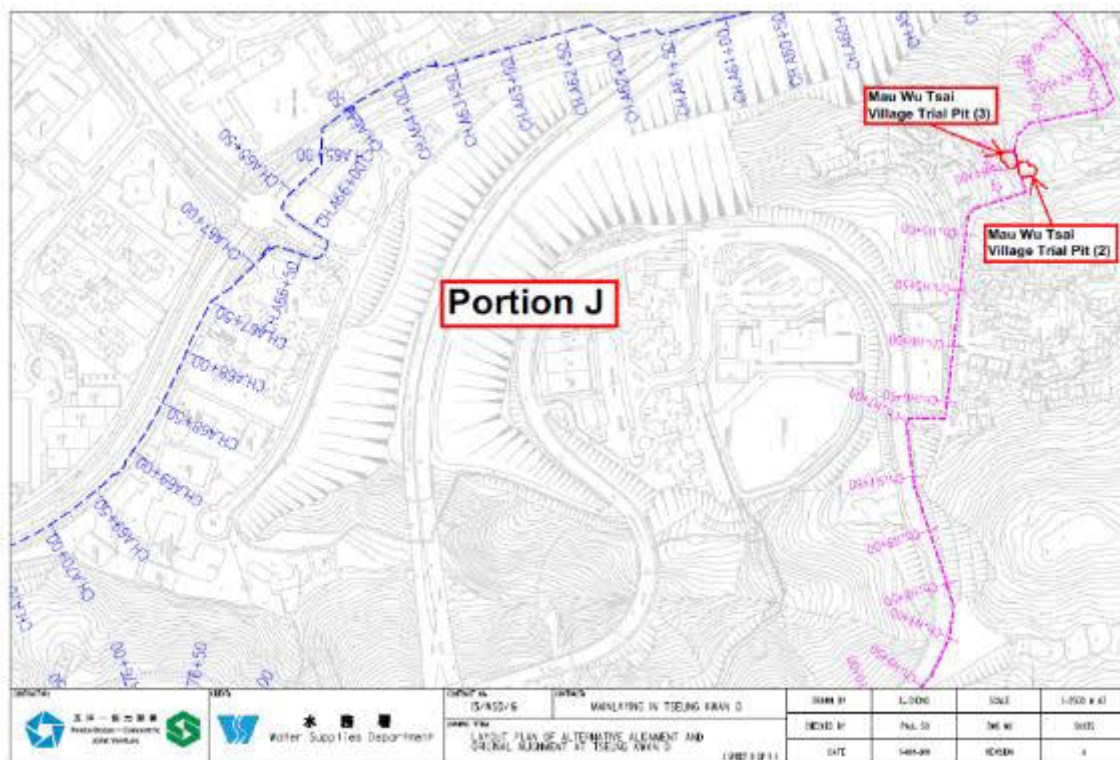


Figure B9b. Location Plan for Mau Wu Tsai 2 & 3

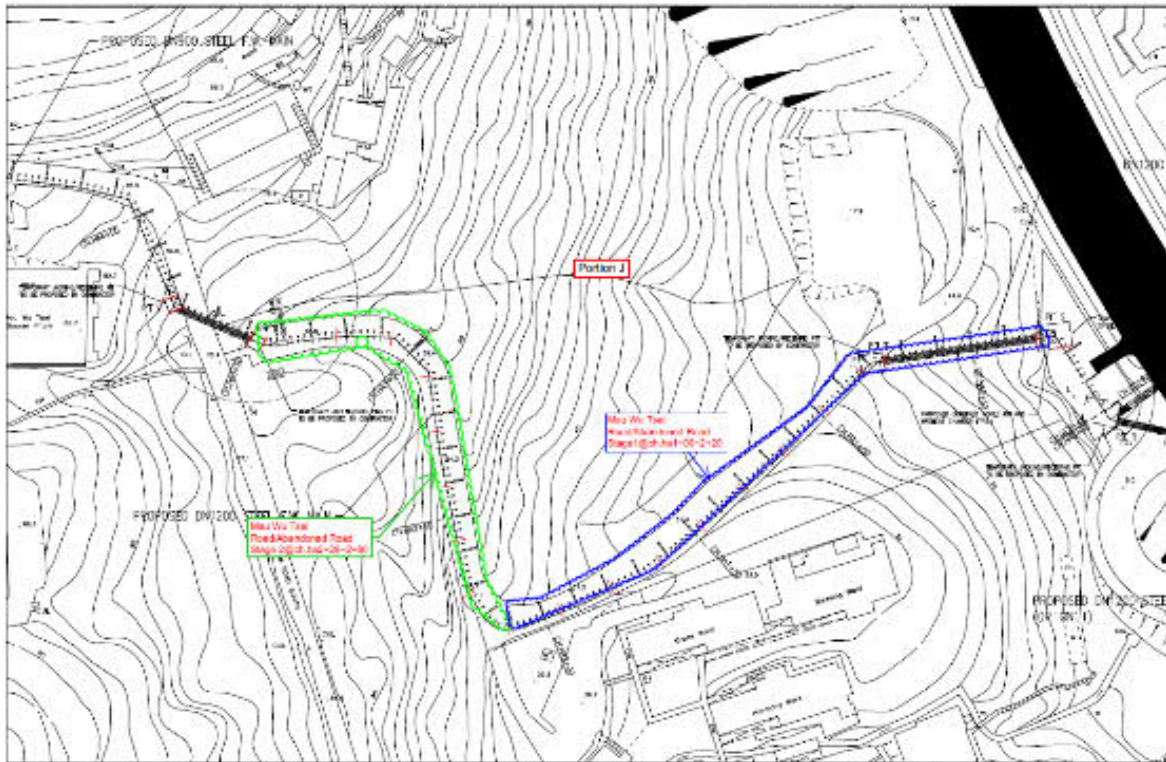


Figure B9c. Abandoned Mau Wu Tsai Road



Figure B10. Monitoring Location – Po Lam South Road

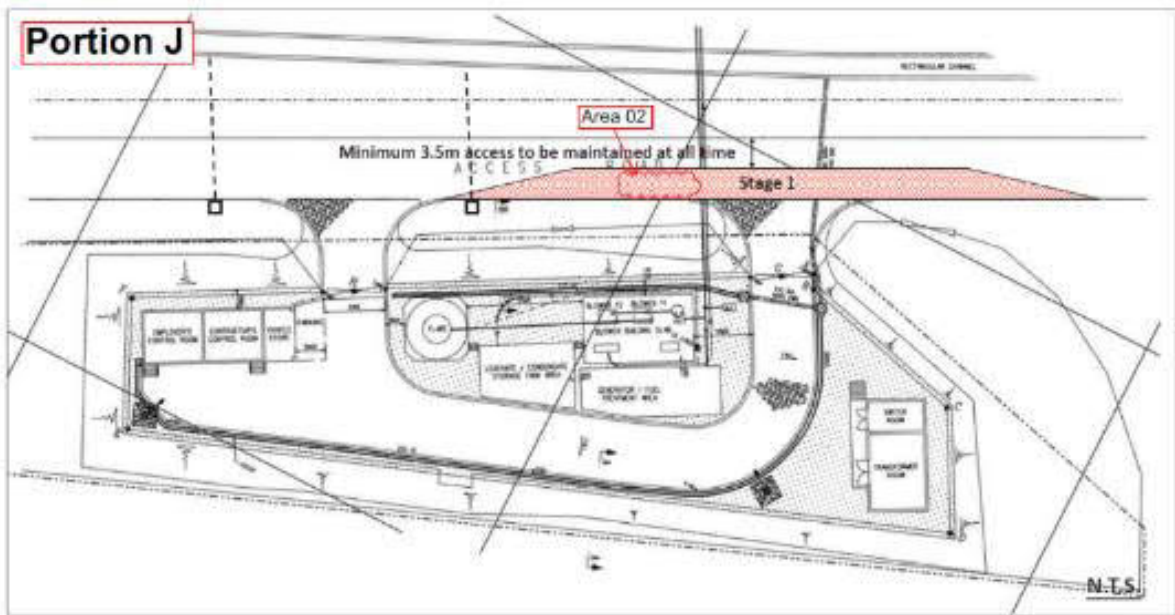


Figure B11. Monitoring Location – Area A02

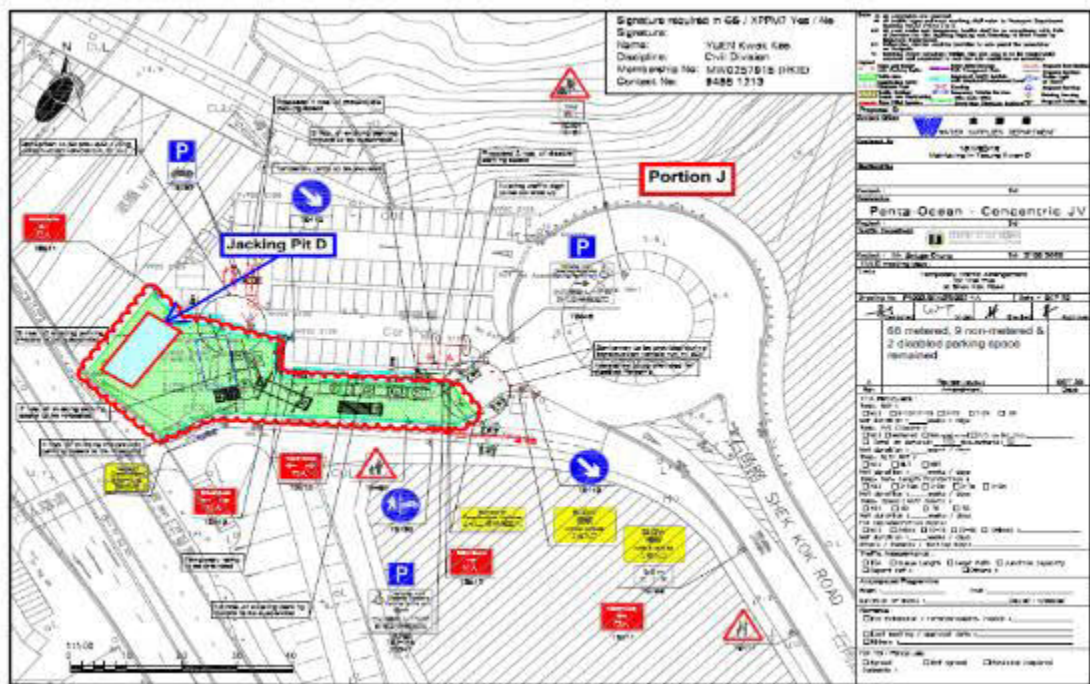


Figure B12. Location Plan for Jacking Pit D

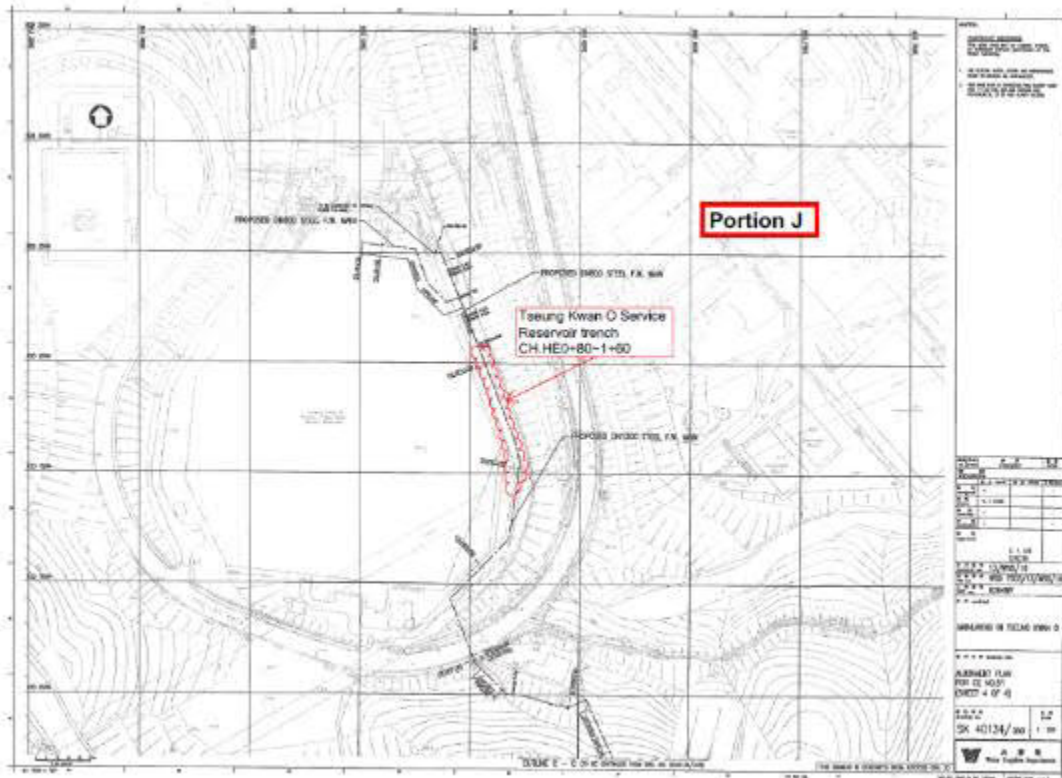


Figure B13. Location Plan for CH.HE0+80-1+60

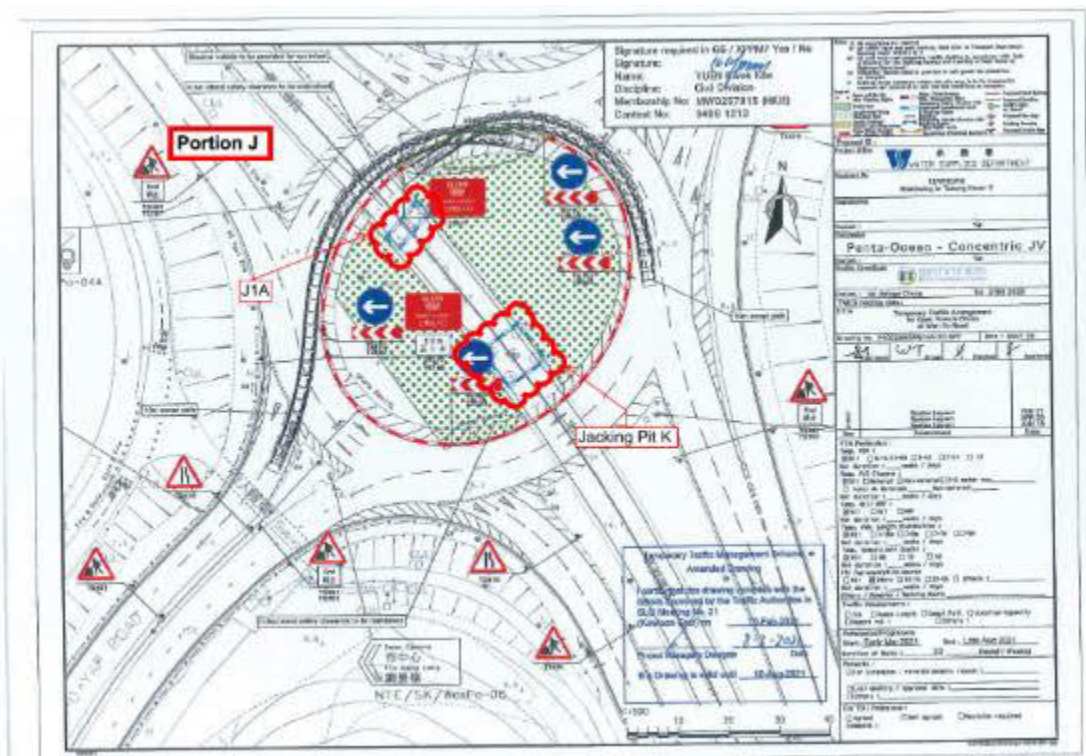


Figure B14. Location Plan for Pit K

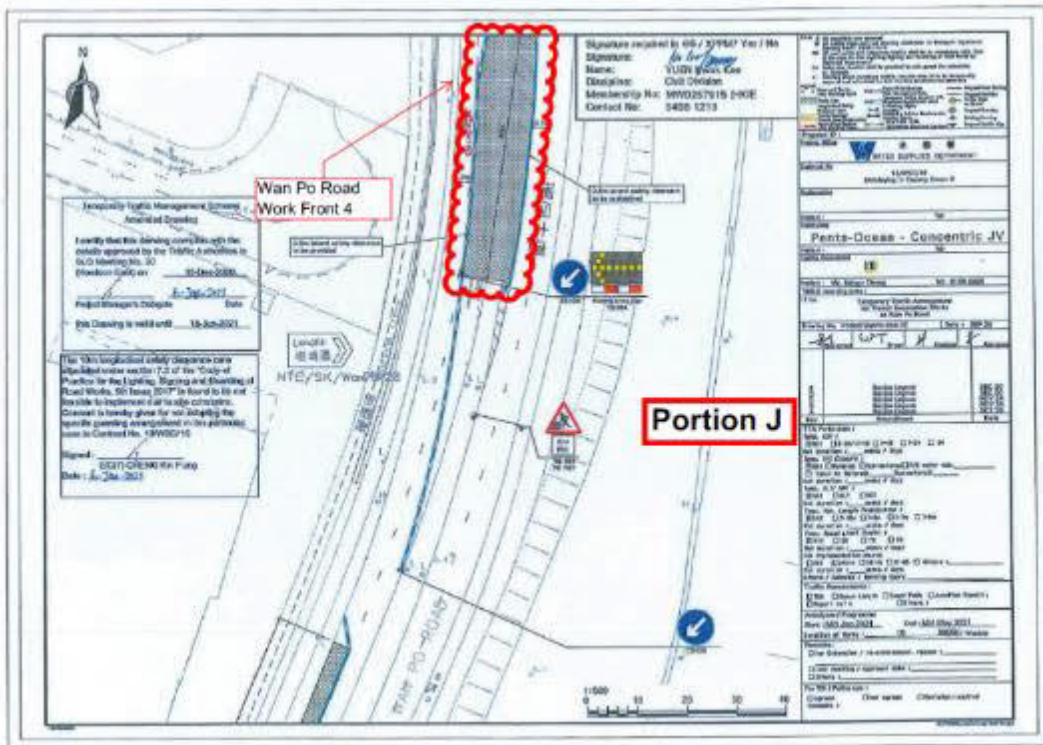


Figure B15. Location Plan for Wan Po Road 4

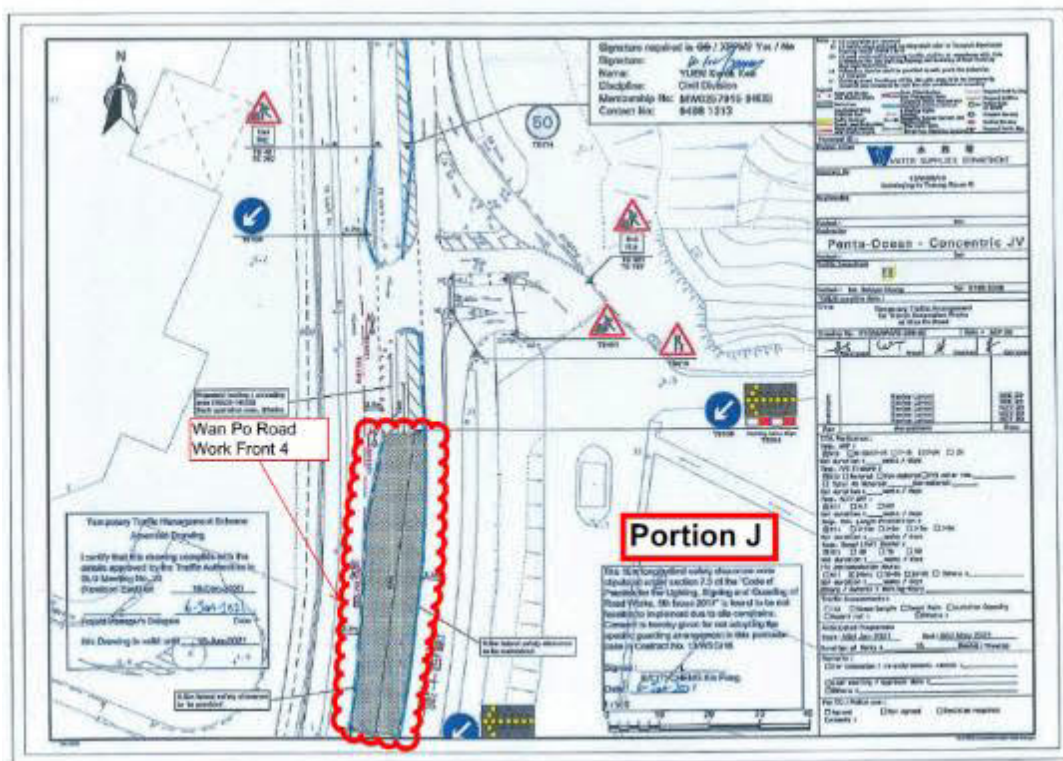


Figure B16. Location Plan for Wan Po Road 4

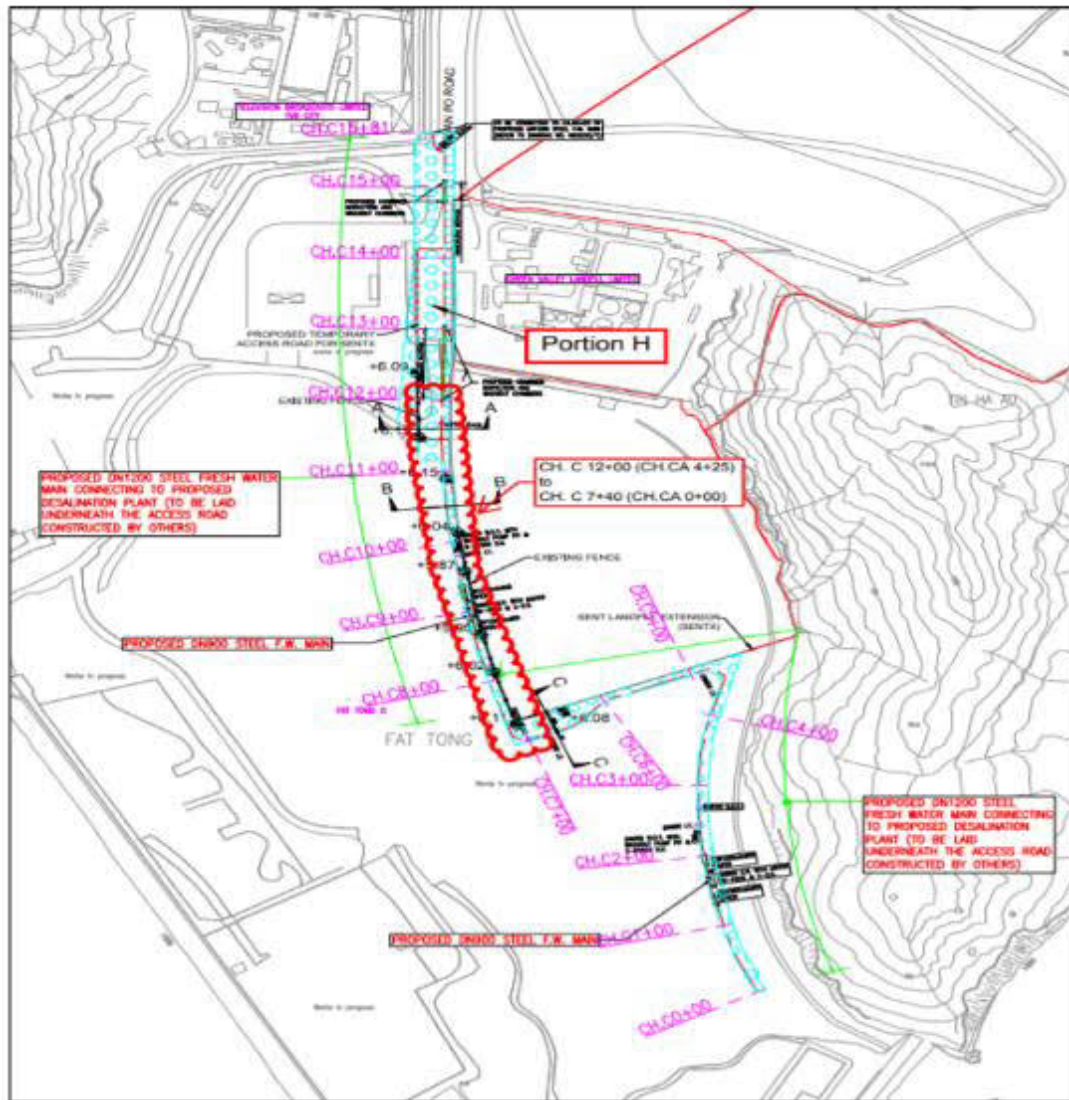


Figure B17. Location Plan for Portion H– CH.C 7+40~CH.C 12+00 (CH.CA 0+00 ~ CH.CA4+25)

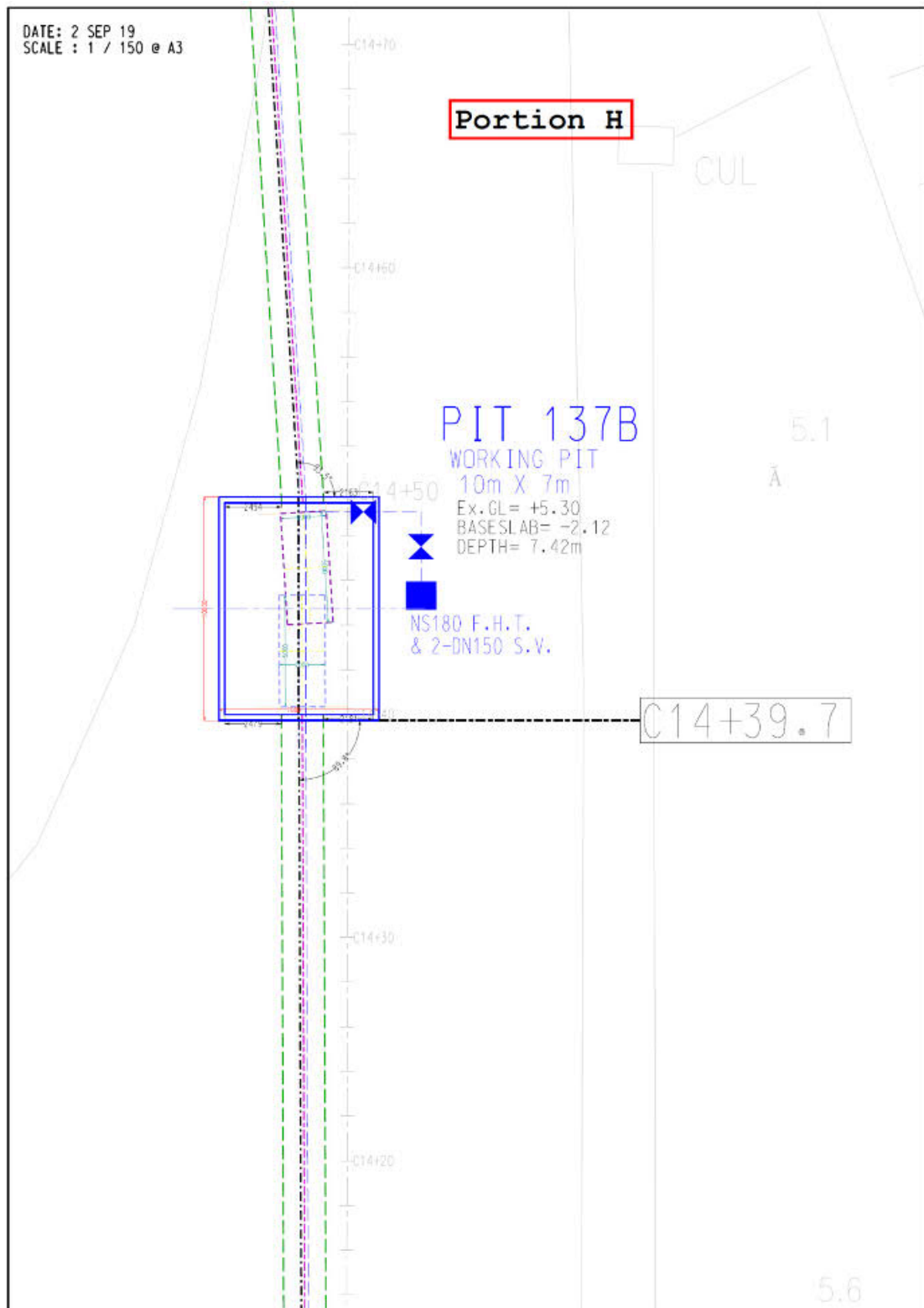


Figure B18. Location Plan for Portion H- Pit 137B

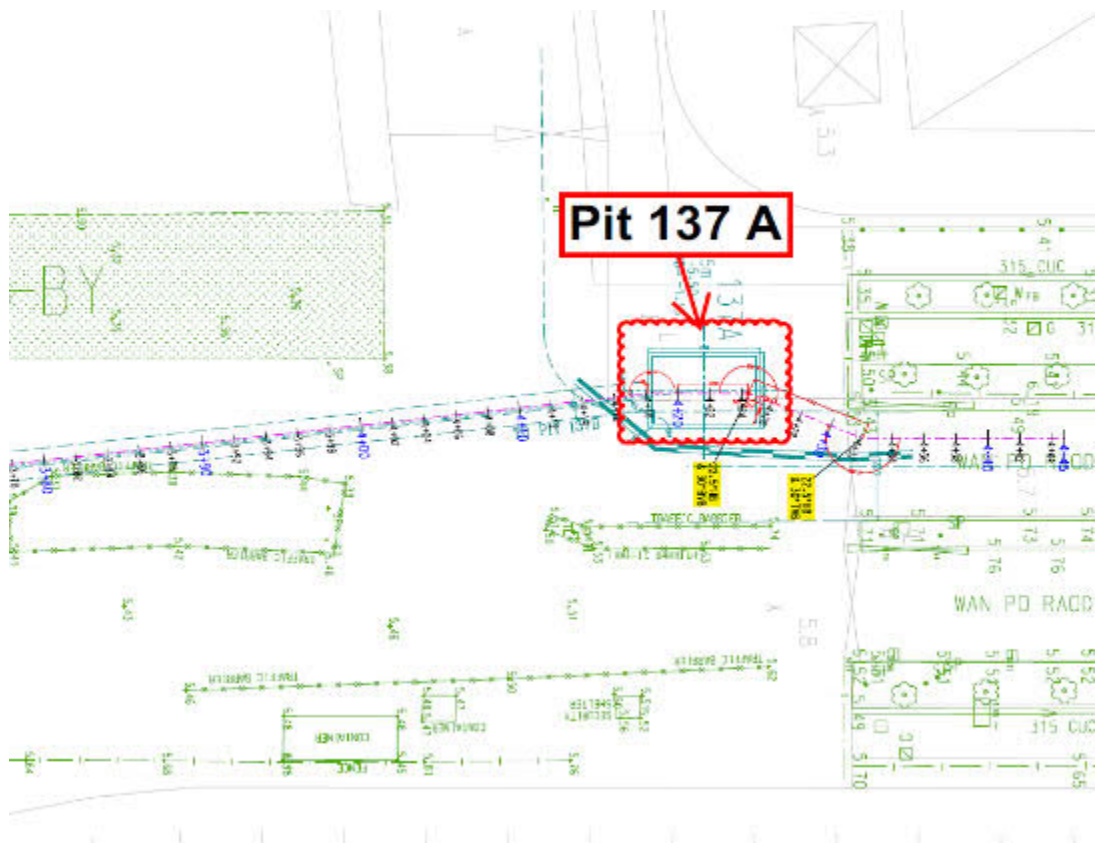


Figure B19. Location Plan for Portion H- Pit 137A

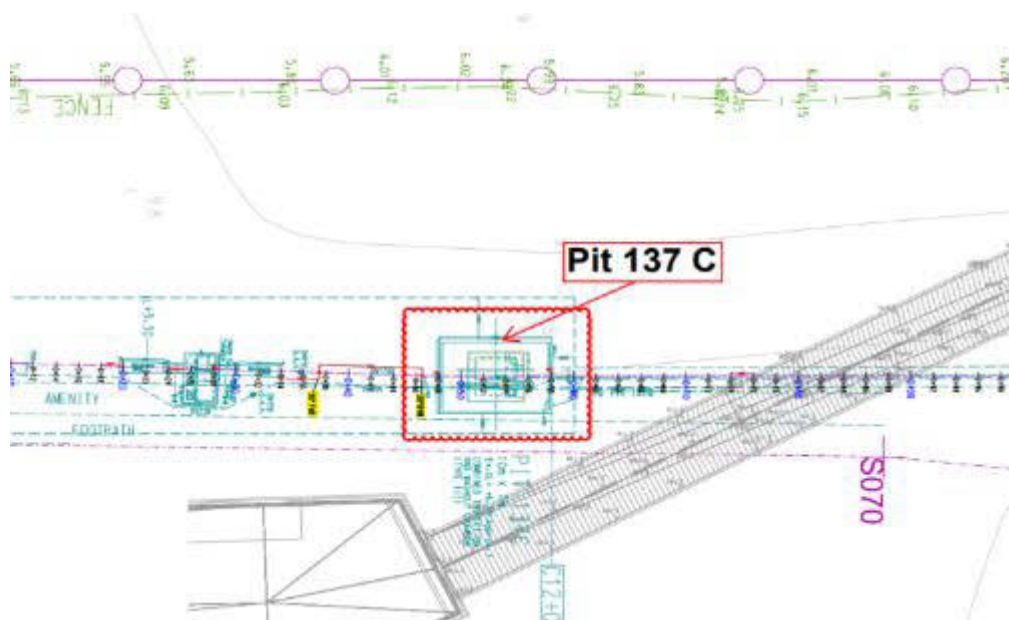


Figure B20. Location Plan for Portion H- Pit 137C

Appendix C

Summary of Implementation Status of Environmental Mitigation

EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation Agent	Implementation Stage			Implementation status	Relevant Legislation & Guidelines
				D	C	O		
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 Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation Agent	Implementation Stage			Implementation status	Relevant Legislation & Guidelines
				D	C	O		
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	Air Pollution Control (Construction Dust)
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	
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	
S4.8.1	Ultra-low-Sulphur diesel (ULSD) will be used for all construction plant on-site, as defined as diesel fuel containing not more than 0.005% Sulphur by weight) as stipulated in Environment, Transport and Works Bureau Technical Circular (ETWB-TC(W)) No 19/2005 on Environmental Management on Construction Sites.	Land site/ During construction/ During Operation	Contractor(s)		✓	✓	Implemented	Environment, Transport and Works Bureau Technical Circular (ETWB-TC(W)) No 19/2005 on Environmental Management on Construction Sites
S4.8.1	The engine of the construction equipment during idling will be switched off.	Land site/ During construction	Contractor(s)		✓		Implemented	-
S4.8.1	Concrete batching plant will be required on site. control measures recommended in the Guidance Note on a Best Practicable Means for Cement Works (Concrete Batching Plant) (BPM 3/2 (93)) will be implemented. The control measures recommended in the Guidance Note on a Best Practicable Means for Cement Works (Concrete Batching Plant) (BPM 3/2 (93)) will be implemented.	Land site/ During construction	Contractor(s)		✓		N/A	Guidance Note on a Best
S4.8.1	Regular maintenance of construction equipment deployed on-site will be conducted to prevent black smoke emission.	Land site/ During construction	Contractor(s)		✓		Implemented	-

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

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

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

EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation Agent	Implementation Stage			Implementation status	Relevant Legislation & Guidelines
				D	C	O		
Water Quality								
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 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	-

EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation Agent	Implementation Stage			Implementation status	Relevant Legislation & Guidelines
				D	C	O		
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)		✓	✓	Implemented	Technical Memorandum for Effluents Discharged into Drainage and Sewerage Systems Inland and Coastal Waters
S6.9	The cleaning and flushing water should also be treated and desilted to the relevant discharge requirement stipulated in TM-DSS before discharging.	Sterilization of water mains prior to commissioning	Contractor(s)		✓	✓	N/A	
S6.9	Site drainage should be well maintained, and good construction practices should be observed to ensure that oil, fuels, solvents and other chemicals are managed, stored and handled properly and do not enter the nearby water streams.	Land site & drainage/ During construction/ During operation	Contractor(s)		✓	✓	Implemented	-
S6.12	Regular site inspections will be carried out in order to confirm that regulatory requirements are being met and that contractors are implementing the standard site practice and mitigation measures as proposed to reduce potential impacts to water quality.	During construction	Contractor(s)/ ET & IEC		✓		Implemented	-

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

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

EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation Agent	Implementation Stage			Implementation Status	Relevant Legislation & Guidelines
				D	C	O		
S8.5	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.	Land site/ During construction	Contractor(s)		✓		Implemented	Waste Disposal Ordinance (Cap 354)
S8.5	A recording system for the amount of wastes generated/ recycled and disposal sites. The trip- ticket system will be included as one of the contractual requirements and implemented by the contractor(s).	Land site/ During construction	Contractor(s)		✓		Implemented	DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials
S8.5	Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of material and their proper disposal.	Land site/ During construction/ During operation	Contractor(s)		✓		Implemented	WBTC 32/92, The Use of Tropical Hard Wood on Construction Site
S8.5	Encourage collection of aluminium cans and wastepaper by individual collectors during construction with separate labelled bins provided to segregate these wastes from other general refuse by the workforce.	Land site/ During construction	Contractor(s)		✓		Implemented	ETWB TCW No. 33/2002, Management of Construction and Demolition Material Including Rock
S8.5	Any unused chemicals and those with remaining functional capacity will be recycled as far as possible.	Land site/ During construction	Contractor(s)		✓		N/A	-
S8.5	Use of reusable non-timber formwork to reduce the amount of C&D materials.	All areas/ During construction	Contractor(s)		✓		N/A	WBTC 32/92, The Use of Tropical Hard Wood on Construction Site
S8.5	Prior to disposal of construction waste, wood, steel and other metals will be separated to the extent practical, for re-use and/or recycling to reduce the quantity of waste to be disposed of to landfill.	All areas/ During construction	Contractor(s)		✓		Implemented	DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials
S8.5	Proper storage and site practices to reduce the potential for damage or contamination of construction materials.	All areas/ During construction	Contractor(s)		✓		Implemented	-
S8.5	Plan and stock construction materials carefully to reduce amount of waste generated and avoid unnecessary generation of waste.	All areas/ During construction	Contractor(s)		✓		Implemented	-
S8.5	The management of dredged/ excavated sediment management requirement from ETWB TC(W) No. 34/2002 will be incorporated in the Specification of the Contract Documents.	Marine works/ During construction	WSD/ Contractor(s)		✓		Implemented	ETWB TC(W) No. 34/2002 and Dumping at Sea Ordinance (DASO)

EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation Agent	Implementation Stage			Implementation Status	Relevant Legislation & Guidelines
				D	C	O		
S8.5	The contractor will open a billing account with EPD in accordance with the Waste Disposal (Charges for Disposal of Construction Waste) Regulation for the payment of disposal charges.	Contract mobilisation/ During construction	Contractor(s)		✓		Implemented	Cap 354N Waste Disposal (Charges for Disposal of Construction Waste) Regulation
S8.5	A trip-ticket system will be established in accordance with DEVB TC(W) No. 6/2010 to monitor the reuse of surplus excavated materials off-site and disposal of construction waste and general refuse at transfer facilities/ landfills, and to control fly-tipping.	Contract mobilisation/ During construction	Contractor(s)		✓		Implemented	DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials
S8.5	The project proponent will also conduct regular inspection of the waste management measures implemented on site as described in the Waste Management Plan.	All area/ During construction	Contractor(s)/ ET & IEC		✓		Implemented	ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites
S8.5	A recording system (similar to summary table as shown in Annex 5 and Annex 6 of Appendix G of ETWB TC(W) No. 19/2005) for the amount of waste generated, recycled and disposed of (including the disposal sites) will be established during the construction phase.	All area/ During construction	Contractor(s)		✓		Implemented	Annex 5 and Annex 6 of Appendix G of ETWB TC(W) No. 19/2005
S8.5	Inert C&D materials (public fill) will be reused within the Project as far as practicable.	All area/ During construction	Contractor(s)		✓		Implemented	-
S8.5	Public fill and construction waste shall be segregated and stored in different containers or skips to facilitate reuse or recycling of materials and their proper disposal.	All area/ During construction	Contractor(s)		✓		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 Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation Agent	Implementation Stage			Implementation Status	Relevant Legislation & Guidelines
				D	C	O		
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, Handling and Storage of Chemical Wastes
S8.5	Chemical waste container shall have a capacity of less than 450 L unless the specifications have been approved by the EPD.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	
S8.5	A label in English and Chinese shall be displayed on the chemical container in accordance with instructions prescribed in Schedule 2 of the Regulations.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	
S8.5	Storage areas for chemical waste shall be enclosed on at least 3 sides.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	
S8.5	Storage areas for chemical waste shall have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	
S8.5	Storage areas for chemical waste shall have adequate ventilation.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	
S8.5	Storage areas for chemical waste shall be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary).	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	
S8.5	Storage areas for chemical waste shall be arranged so that incompatible materials are appropriately separated.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	
S8.5	General refuse will be stored in enclosed bins or compaction units separately from construction and chemical wastes.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	
S8.5	Adequate number of waste containers will be provided to avoid over-spillage of waste.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	DEVB TC(W) No. 8/2010 Enhanced Specification for Site Cleanliness and Tidiness.

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

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

EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation Agent	Implementation Stage			Implementation Status	Relevant Legislation & Guidelines
				D	C	O		
Ecology								
S9.7	Erect fences along the boundary of the works area before the commencement of works to prevent vehicle movements and encroachment of personnel onto adjacent areas.	All area/ During construction	Contractor(s)		✓		Implemented	-
S9.7	Regularly check the work site boundaries to ensure that they are not breached, and that damage does not occur to surrounding areas.	All area/ During construction	Contractor(s)/ Environmental Team (ET)		✓		Implemented	-
S9.7	Avoid any damage and disturbance, particularly those caused by filling and illegal dumping, to the surrounding habitats through proper management of waste disposal.	All area/ During construction	Contractor(s)		✓		Implemented	-
S9.7	Reinstate temporarily affected areas, particularly the habitats of plantation and shrubland-grassland immediately after completion of construction works, through on-site tree/shrub planting. The tree/shrub species will be chosen with reference to those in the surrounding area.	All area/ During construction	Contractor(s)		✓		N/A	-

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

EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation Agent	Implementation Stage			Implementation Status	Relevant Legislation & Guidelines
				D	C	O		
Landscape & Visual								
S11.10	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)	N/A	N/A	N/A	Not applicable for this project	-
S11.10	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)	N/A	N/A	N/A	Not applicable for this project	-
S11.10	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)	N/A	N/A	N/A	Not applicable for this project	-
S11.10	All trees within the Project Site or the potential slope mitigation works area will be carefully protected during construction according to DEVB TCW No. 10/2013 – Tree Preservation (MM4)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	✓	✓	✓	Implemented after observation	ETWB TCW No. 3/2006 - Tree Preservation.
S11.10	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	N/A	N/A	Not applicable for this project	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 & main concerns to address	Implementation Agent	Implementation Stage			Implementation Status	Relevant Legislation & Guidelines
				D	C	O		
Landfill Gas 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	

	of methane, carbon dioxide and oxygen.						
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
S12.7	Prior to the commencement of the site works, the drilling contractor should devise a 'method-of- working' statement covering all normal and emergency procedures (including but not limited to number of operatives, experience and special skills of operatives, normal method of operations, emergency procedures, supervisors' responsibilities, storage and use of safety equipment, safety procedures and signs, barriers and guarding). The site supervisor and all operatives must be familiar with this statement.	All area/ During construction/ During operation	Contractor(s)	✓	✓	✓	Implemented
S12.7	Where below ground service entries are necessary to the Incoming Switchgear Room, 132 kV Substation and Chlorine Store (I) and (II), the entry point should be sealed to prevent gas entry. In addition, any below grade cable trenches entering the Incoming Switchgear Room and 132 kV Substation can become the pathway for landfill gas and hence gridded metal covers should be used.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	✓	✓	✓	N/A
S12.7	It is recommended regular landfill gas monitoring should be carried out at the Incoming Switchgear Room, 132 kV Substation and Chlorine Store (I) and (II). The monitoring frequency will be monthly for the first year of operation. If the monitoring results show no sign of landfill gas migration, reduce the monitoring frequency to once every six months.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	✓	✓	✓	N/A
S12.7	The manholes and utility pits within the Project Site and 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.							
S12.7	All construction, operation and maintenance personnel working on-site as well as visitors should be made aware of the hazards of landfill gas and its possible presence on-site. This should be achieved through a combination of posting warning signs in prominent places and also by access to detailed information on landfill gas hazards and the designs and procedural means by which these hazards are being minimized on-site.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	✓	✓	✓	Implemented	

Appendix D

Impact Monitoring Schedule of the Reporting Month

Contract No. 13/WSD/16
Mainlaying in Tseung Kwon O
Environmental Monitoring Schedule (September 2024)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2 Impact Noise Monitoring	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 Impact Noise Monitoring	26	27	28
29	30					

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

Appendix E

Noise Monitoring Equipment Calibration Certificate

Certificate of Calibration

for

Description: *Sound Level Calibrator*
Manufacturer: *RION*
Type No.: *NC-75*
Serial No.: *35124527*

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**
 Outside

the allowable tolerance.

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

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

Date of receipt: 19 October 2023

Date of calibration: 27 October 2023

Date of NEXT calibration: 26 October 2024

Calibrated by: 
Calibration Technician

Certified by: 
Mr. Ng Yan Wa
Laboratory Manager

Date of issue: 27 October 2023

Certificate No.: APJ23-090-CC002



Page 1 of 2

1. Calibration Precautions:

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

2. Calibration Specifications:

Calibration check

3. Calibration Conditions:

Air Temperature: 24.4 °C
Air Pressure: 1013 hPa
Relative Humidity: 65.4 %

4. Calibration Equipment:

Test Equipment	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV220120	HOKLAS

5. Calibration Results

5.1 Sound Pressure Level

Nominal value dB	Accept lower level dB	Accept upper level dB	Measured value dB
94.0	93.6	94.4	94.0

Note:

The values given in this certification only related to the values measured at the time of the calibration.

Certificate of Calibration

for

Description: *Sound Level Meter*
Manufacturer: *SVANTEK*
Type No.: *SVAN 971 (Serial No.:C132261)*
Microphone: *SV 7052E (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 (31.5Hz – 4kHz)**
 Outside

the allowable tolerance.

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

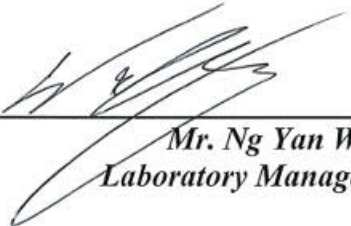
- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 19 October 2023

Date of calibration: 27 October 2023

Date of NEXT calibration: 26 October 2024

Calibrated by: 
Calibration Technician

Certified by: 
*Mr. Ng Yan Wa
Laboratory Manager*

Date of issue: 27 October 2023

Certificate No.: APJ23-091-CC006



Page 1 of 4

1. Calibration Precaution:

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

2. Calibration Conditions:

Air Temperature: 22.6 °C
 Air Pressure: 1016 hPa
 Relative Humidity: 65.3 %

3. Calibration Equipment:

	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
25-124.9	dBA SPL	Fast	94	1000	94.0	±0.4

Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
25-124.9	dBA SPL	Fast	94	1000	94.0	Ref
			104		104.0	±0.3
			114		114.0	±0.3

Time Weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz		
25-124.9	dBA SPL	Fast	94	1000	94.0	Ref
		Slow			94.0	±0.3

Certificate No.: APJ23-091-CC006



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Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB	
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz			
25-124.9	dB	SPL	Fast	94	31.5	94.4	±2.0
					63	94.3	±1.5
					125	94.2	±1.5
					250	94.1	±1.4
					500	94.1	±1.4
					1000	94.0	Ref
					2000	93.8	±1.6
					4000	93.3	±1.6

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB	
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz			
25-124.9	dBA	SPL	Fast	94	31.5	55.1	-39.4 ±2.0
					63	68.1	-26.2 ±1.5
					125	78.1	-16.1 ±1.5
					250	85.5	-8.6 ±1.4
					500	90.8	-3.2 ±1.4
					1000	94.0	Ref
					2000	95.0	+1.2 ±1.6
					4000	94.3	+1.0 ±1.6

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading, dB	IEC 61672 Class 1 Specification, dB	
Range, dB	Freq. Weighting	Time Weighting	Level, dB	Frequency, Hz			
25-124.9	dBC	SPL	Fast	94	31.5	91.4	-3.0 ±2.0
					63	93.4	-0.8 ±1.5
					125	94.0	-0.2 ±1.5
					250	94.1	-0.0 ±1.4
					500	94.1	-0.0 ±1.4
					1000	94.0	Ref
					2000	93.6	-0.2 ±1.6
					4000	92.5	-0.8 ±1.6

5. 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	± 0.10
	63 Hz	± 0.10
	125 Hz	± 0.05
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
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.

Appendix F

Event / Action Plan for Noise Exceedance

Event and Action Plan for Construction Noise Monitoring

Event	Action			
	ET	IEC	ER	Contractor
Action Level	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> Submit noise mitigation proposals, if required, to the IEC and ER Implement noise mitigation proposals.
Limit Level	<ol style="list-style-type: none"> 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 implemented. inform IEC, ER and EPD the cause & actions taken for the exceedances Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results If exceedance stops, cease additional monitoring. 	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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 G1 Summary of Noise Monitoring Result

Date	Time	Weather	Leq-5min, dB(A)						Leq-30min, dB(A)	L10-30mins, dB(A)	L90-30mins, dB(A)	Limit Level, dB(A)*	Noise Meter
			Reading (1)	Reading (2)	Reading (3)	Reading (4)	Reading (5)	Reading (6)					
02/09/2024	10:05 - 10:35	Fine	67.9	68.0	68.8	68.3	67.9	68.3	68.2	71.4	66.0	70.0	SVANTEK 971
07/09/2024	11:00 - 11:30	Fine	67.4	64.5	66.8	65.2	66.9	65.2	66.1	69.9	62.9	70.0	SVANTEK 971
13/09/2024	10:00 - 10:30	Fine	65.3	66.8	65.5	67.3	68.3	68.9	67.2	71.0	64.2	70.0	SVANTEK 971
19/09/2024	10:05 - 10:35	Fine	67.2	65.0	64.2	65.3	66.9	65.2	65.8	70.9	62.5	70.0	SVANTEK 971
25/09/2024	10:00 - 10:30	Fine	68.2	68.5	68.1	68.5	68.9	67.0	68.2	71.0	62.9	70.0	SVANTEK 971

*The Limit Level for education institutions is 65 dB(A) during examination period.

Appendix H

Waste Flow Table

Appendix H – Waste Flow Table

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of Non-C&D Wastes Generated Monthly				
	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 2024	0.280	0.000	0.264	--	0.016	0.029	--	0.061	--	--	0.003
Feb 2024	0.135	0.000	0.135	--	0.000	0.010	--	0.042	--	--	0.002
Mar 2024	0.313	0.000	0.020	--	0.293	0.000	--	0.023	--	--	0.001
Apr 2024	0.119	0.000	0.030	--	0.089	0.028	--	0.031	--	--	0.002
May 2024	0.099	0.000	0.021	--	0.078	0.015	--	0.025	--	--	0.003
Jun 2024	0.462	0.000	0.035	--	0.427	0.030	--	0.041	--	--	0.004
Sub-total	1.408	0.000	0.505	0.000	0.903	0.112	0.000	0.223	0.000	0.000	0.015
Jul 2024	0.029	0.029	0.000	--	0.000	0.000	--	0.021	--	--	0.005
Aug 2024	0.110	0.000	0.000	--	0.110	0.000	--	0.030	--	--	0.090
Sep 2024	0.000	0.000	0.000	--	0.000	0.000	--	0.025	--	--	0.042
Oct 2024											
Nov 2024											
Dec 2024											
Total	1.547	0.000	0.505	0.000	1.013	0.112	0.000	0.299	0.000	0.000	0.152

Notes:

- 1) Total quantity Generated only refers to the actual Quantitates of inert C&D materials generated monthly excluding those that will be recycled (Hard rock & large broken concrete, reused in contract and reused in another contract). Imported fill will not be included in total quantity generated as those C&D materials are not generated from this project.
- 2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
- 3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.

Appendix I

Landfill Gas Monitoring Equipment Calibration Certificate

According to the Contractors, all pits or trenches were backfilled and undergo reinstatement. The landfill gas monitoring was ceased from February 2024.

Appendix J

Landfill Gas Monitoring Data

According to the Contractors, all pits or trenches were backfilled and undergo reinstatement. The landfill gas monitoring was ceased from February 2024.

Appendix K

Complaint Log and Regulatory Compliance Proforma

Table K-1 Statistical Summary of Environmental Complaints

Reporting Period	Environmental Complaint Statistics		
	Frequency	Cumulative	Complaint Nature
1 – 30 September 2024	0	5	N/A

Table K-2 Statistical Summary of Environmental Summons

Reporting Period	Environmental Summons Statistics		
	Frequency	Cumulative	Details
1 – 30 September 2024	0	0	N/A

Table K-3 Statistical Summary of Environmental Prosecution

Reporting Period	Environmental Prosecution Statistics		
	Frequency	Cumulative	Details
1 – 30 September 2024	0	0	N/A

Appendix L

Site Inspection Proforma

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

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection Date: 5 September 2024 Inspected by: ET: Toby Wan WSD: T.C Lau
 Inspection Time: 9:30 Contractor: Calvin Chik IEC: _____

Weather						
Condition	<input type="checkbox"/> Sunny	<input checked="" type="checkbox"/> Fine	<input type="checkbox"/> Overcast	<input type="checkbox"/> Drizzle	<input type="checkbox"/> Rain	<input type="checkbox"/> Storm <input type="checkbox"/> Hazy
Temperature	<input type="text" value="31"/> °C	Humidity	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low	
Wind	<input checked="" type="checkbox"/> Calm	<input type="checkbox"/> Light	<input type="checkbox"/> Breeze	<input type="checkbox"/> Strong		

		N/A	Yes	No	Remarks
0.00	General				
0.01	Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.02	Are screenings, enclosures, water spraying, or vacuum cleaning devices provided to dusty construction works for dust suppression?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.04	Are wheel-washing facilities with high-pressure water jets provided at all sites exits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.05	Is wheel-washing provided to all vehicles leaving the site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.06	Are road section near the site exit free from dusty material?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.07	Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.08	Are water spraying provided immediately prior to any loading or transfer of dusty materials?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.11	Is exposed earth properly treated within six months after the last construction activity on site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.12	Does the operation of plants on site free form dark smoke emission?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.14	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.15	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.16	Are hoardings of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.17	Is open burning prohibited?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

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

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

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

		N/A	Yes	No	Remarks
3.12	Are exposed slope surface properly protected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.13	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.14	Is runoff from wheel-washing facilities avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.15	Is oil leakage or spillage prevented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.16	Are there any measures to prevent the release of oil and grease into the storm drainage system?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.17	Are the oil interceptors/ grease traps properly maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.18	Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.20	Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.21	Are sufficient chemical toilets provided on site to handle sewage from construction work force?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.22	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.23	Is concrete washing water properly collected and treated prior to discharge?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.00	Waste Management				
4.01	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.02	Is a recording system implemented to record the amount of wastes generated, recycled and disposed of?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.03	Is chemical waste separated from other waste and collected by a licensed chemical waste collector?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.04	Are trip tickets for chemical waste disposal available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.05	Is chemical waste reused and recycled on site as far as practicable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.06	Are all containers for chemical waste properly labelled?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.07	Is drip tray provided for chemical storage?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.08	Is chemical waste storage area used solely for storage of chemical waste and properly labelled?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.09	Are incompatible chemical wastes stored in different areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.10	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.12	Is a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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

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

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

Remark / Observation(s) / Recommendation and Non-compliance(s) of Weekly Site Inspection:

Site Inspection Date : 5 Sep 2024

No major observation was found during site inspection.

Signatures:

ET
Representative



(Name: Toby Wan)

Contractor's
Representative



(Name: Calvin Chik)

WSD's
Representative



(Name: T.C. Lam)

IEC's
Representative

(Name:)

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

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection Date: 12 September 2024 Inspected by: ET: Toby Wan WSD: W.S Chan
 Inspection Time: 9:30 Contractor: Calvin Chik IEC: _____

Weather						
Condition	<input type="checkbox"/> Sunny	<input checked="" type="checkbox"/> Fine	<input type="checkbox"/> Overcast	<input type="checkbox"/> Drizzle	<input type="checkbox"/> Rain	<input type="checkbox"/> Storm <input type="checkbox"/> Hazy
Temperature	<input type="text" value="29"/> °C	Humidity	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low	
Wind	<input checked="" type="checkbox"/> Calm	<input type="checkbox"/> Light	<input type="checkbox"/> Breeze	<input type="checkbox"/> Strong		

		N/A	Yes	No	Remarks
0.00	General				
0.01	Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.02	Are screenings, enclosures, water spraying, or vacuum cleaning devices provided to dusty construction works for dust suppression?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.04	Are wheel-washing facilities with high-pressure water jets provided at all sites exits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.05	Is wheel-washing provided to all vehicles leaving the site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.06	Are road section near the site exit free from dusty material?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.07	Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.08	Are water spraying provided immediately prior to any loading or transfer of dusty materials?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.11	Is exposed earth properly treated within six months after the last construction activity on site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.12	Does the operation of plants on site free form dark smoke emission?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.14	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.15	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.16	Are hoardings of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.17	Is open burning prohibited?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

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

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

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

		N/A	Yes	No	Remarks
3.12	Are exposed slope surface properly protected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.13	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.14	Is runoff from wheel-washing facilities avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.15	Is oil leakage or spillage prevented?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.16	Are there any measures to prevent the release of oil and grease into the storm drainage system?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.17	Are the oil interceptors/ grease traps properly maintained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.18	Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.20	Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.21	Are sufficient chemical toilets provided on site to handle sewage from construction work force?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.22	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.23	Is concrete washing water properly collected and treated prior to discharge?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.00	Waste Management				
4.01	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.02	Is a recording system implemented to record the amount of wastes generated, recycled and disposed of?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.03	Is chemical waste separated from other waste and collected by a licensed chemical waste collector?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.04	Are trip tickets for chemical waste disposal available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.05	Is chemical waste reused and recycled on site as far as practicable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.06	Are all containers for chemical waste properly labelled?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.07	Is drip tray provided for chemical storage?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.08	Is chemical waste storage area used solely for storage of chemical waste and properly labelled?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.09	Are incompatible chemical wastes stored in different areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.10	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.12	Is a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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

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

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

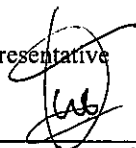
Remark / Observation(s) / Recommendation and Non-compliance(s) of Weekly Site Inspection:

Site Inspection Date = 12 Sep 2024

No major observation was found during site inspection.

Signatures:

ET
Representative



(Name: Toby Wan)

Contractor's
Representative



(Name: Calvin Au)

WSD's
Representative



(Name: W.S. Chan)

IEC's
Representative

(Name:)

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

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection Date: 19 September 2024

Inspected by: ET: Toby Wan
Contractor: Calvin Chik

WSD: _____
IEC: _____

Inspection Time: 9:30

Weather							
Condition	<input type="checkbox"/> Sunny	<input checked="" type="checkbox"/> Fine	<input type="checkbox"/> Overcast	<input type="checkbox"/> Drizzle	<input type="checkbox"/> Rain	<input type="checkbox"/> Storm	<input type="checkbox"/> Hazy
Temperature	<input type="text" value="30"/> °C	Humidity	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
Wind	<input checked="" type="checkbox"/> Calm	<input type="checkbox"/> Light	<input type="checkbox"/> Breeze	<input type="checkbox"/> Strong			

		N/A	Yes	No	Remarks
0.00	General				
0.01	Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.02	Are screenings, enclosures, water spraying, or vacuum cleaning devices provided to dusty construction works for dust suppression?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.04	Are wheel-washing facilities with high-pressure water jets provided at all sites exits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.05	Is wheel-washing provided to all vehicles leaving the site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.06	Are road section near the site exit free from dusty material?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.07	Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.08	Are water spraying provided immediately prior to any loading or transfer of dusty materials?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.11	Is exposed earth properly treated within six months after the last construction activity on site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.12	Does the operation of plants on site free form dark smoke emission?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
1.14	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.15	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.16	Are hoardings of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1.17	Is open burning prohibited?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

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

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

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

		N/A	Yes	No	Remarks
3.12	Are exposed slope surface properly protected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.13	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.14	Is runoff from wheel-washing facilities avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.15	Is oil leakage or spillage prevented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.16	Are there any measures to prevent the release of oil and grease into the storm drainage system?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.17	Are the oil interceptors/ grease traps properly maintained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.18	Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.20	Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.21	Are sufficient chemical toilets provided on site to handle sewage from construction work force?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.22	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.23	Is concrete washing water properly collected and treated prior to discharge?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.00	Waste Management				
4.01	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.02	Is a recording system implemented to record the amount of wastes generated, recycled and disposed of?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.03	Is chemical waste separated from other waste and collected by a licensed chemical waste collector?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.04	Are trip tickets for chemical waste disposal available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.05	Is chemical waste reused and recycled on site as far as practicable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.06	Are all containers for chemical waste properly labelled?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.07	Is drip tray provided for chemical storage?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.08	Is chemical waste storage area used solely for storage of chemical waste and properly labelled?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.09	Are incompatible chemical wastes stored in different areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.10	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.12	Is a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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

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

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

Remark / Observation(s) / Recommendation and Non-compliance(s) of Weekly Site Inspection:

Site Inspection Date: 19 Sep 2024

No major observation was found during site inspection.

Signatures:

ET
Representative



(Name: Toby Wan)

Contractor's
Representative



(Name: Calvin Chik)

WSD's
Representative

(Name:)

IEC's
Representative

(Name:)

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

WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspection Date: 26 September 2024

Inspected by: ET: Toby Wan
Contractor: Calvin Chik

WSD: W.S Chan
IEC: Alex Chan

Inspection Time: 9:30

Weather							
Condition	<input type="checkbox"/> Sunny	<input checked="" type="checkbox"/> Fine	<input type="checkbox"/> Overcast	<input type="checkbox"/> Drizzle	<input type="checkbox"/> Rain	<input type="checkbox"/> Storm	<input type="checkbox"/> Hazy
Temperature	<input type="text" value="31"/> °C	Humidity	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
Wind	<input checked="" type="checkbox"/> Calm	<input type="checkbox"/> Light	<input type="checkbox"/> Breeze	<input type="checkbox"/> Strong			

		N/A	Yes	No	Remarks
0.00	General				
0.01	Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.02	Are screenings, enclosures, water spraying, or vacuum cleaning devices provided to dusty construction works for dust suppression?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.04	Are wheel-washing facilities with high-pressure water jets provided at all sites exits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.05	Is wheel-washing provided to all vehicles leaving the site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.06	Are road section near the site exit free from dusty material?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.07	Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.08	Are water spraying provided immediately prior to any loading or transfer of dusty materials?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.11	Is exposed earth properly treated within six months after the last construction activity on site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.12	Does the operation of plants on site free form dark smoke emission?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.14	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.15	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.16	Are hoardings of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.17	Is open burning prohibited?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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

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

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		N/A	Yes	No	Remarks
3.12	Are exposed slope surface properly protected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.13	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.14	Is runoff from wheel-washing facilities avoided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.15	Is oil leakage or spillage prevented?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.16	Are there any measures to prevent the release of oil and grease into the storm drainage system?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.17	Are the oil interceptors/ grease traps properly maintained?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.18	Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.20	Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.21	Are sufficient chemical toilets provided on site to handle sewage from construction work force?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.22	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.23	Is concrete washing water properly collected and treated prior to discharge?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.00	Waste Management				
4.01	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.02	Is a recording system implemented to record the amount of wastes generated, recycled and disposed of?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.03	Is chemical waste separated from other waste and collected by a licensed chemical waste collector?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.04	Are trip tickets for chemical waste disposal available for inspection?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.05	Is chemical waste reused and recycled on site as far as practicable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.06	Are all containers for chemical waste properly labelled?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.07	Is drip tray provided for chemical storage?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Obs.1
4.08	Is chemical waste storage area used solely for storage of chemical waste and properly labelled?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.09	Are incompatible chemical wastes stored in different areas?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.10	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.12	Is a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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

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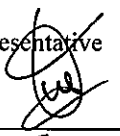
Remark / Observation(s) / Recommendation and Non-compliance(s) of Weekly Site Inspection:

Site Inspection Date: 26 Sep 2024

Obs 1. The chemical containers should be ~~stored~~ placed in the drip tray.

Signatures:

ET
Representative



(Name: Toby Wan)

Contractor's
Representative



(Name: Calvin Chan)

WSD's
Representative



(Name: W.S. Chan)

IEC's
Representative



(Name: Alex Chan)

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Observation(s)	Follow-up Action
Observation - Item 1	
Observed on 26 September 2024	Rectified by the Contractor on 18 October 2024
<p>The chemical containers should be placed inside the drip tray.</p>	<p>The chemical containers have been removed.</p>
	

Appendix M

Proactive Environmental Protection Proforma

Proactive Environmental Protection

Reporting Period	Activity	Major Environmental Impact	Environmental Mitigation Measure
1- 30 September 2024	<ul style="list-style-type: none"> - Road pavement reinstatement, - Remaining works installation of accessories for completed chambers 	<ul style="list-style-type: none"> - Construction dust - Noise generation; - Construction waste - Impact of water quality - Ecology 	<ul style="list-style-type: none"> - Dust suppression by regular wetting and water spraying - Reduction of noise from equipment and machinery on-site - Sorting and storage of general refuse and construction waste - Chemical shall be stored properly with drip tray. - Treatment of water with water treatment facilities before discharge. - Rainwater pumped from trench should be discharged via waster water treatment facilities. - Retained tree shall be carefully protected and tree protect zone should be established.

Appendix N

Impact Monitoring Schedule of Next Reporting Month

According to WSD and contractor information, all remaining work under the contract has been fully completed and that no power mechanical equipment was adopted on the site. No construction works were conducted within 300m radius of NSR4, NSR24 and NSR31. Thus, no construction noise monitoring works will be scheduled for the next reporting month.

Appendix O

Academic Calendar (s)

Creative Secondary School Calendar 2024-2025

	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Particulars/Remarks
August	11	12	13	14	15	16	17	12-14/8 F1 Bridging Program; 15/8 F1 & F5 Orientation Program; 16/8 Whole School Assembly
	18	19A	20B	21C	22D	23E	24	19/8 The first day of School year
	25	26F	27G	28A	29B	30C	31	30/08 PTA New Parents Orientation and Welcome Party
September	1	2D	3E	4F	5G	6A	7	
	8	9B	10C	11D	12E	13F	14	13/09 Swimming Gala
	15	16G	17A	18	19B	20C	21	18/9 The day following Chinese Mid-Autumn Festival
	22	23D	24E	25F	26G	27A	28	
	29	30						30/9 Staff Development Day 1
October			1	2B	3C	4D	5	1/10 National Day
	6	7E	8F	9G	10A	11	12	11/10 Chung Yeung Festival
	13	14	15	16	17	18	19	14-18/10 Term Break
	20	21B	22C	23D	24E	25F	26	22-26/10 Hangzhou Exchange Programme
	27	28G	29A	30B	31C			31/10 Univeristy Fair
						1	2	1/11 The 2nd PD day
November	3	4D	5E	6F	7G	8A	9	
	10	11B	12C	13D	14E	15F	16	16/11 Creative Showcase (Open Day)
	17	18	19G	20A	21B	22C	23	18/11 The Monday following Creative Showcase (Open Day); 22/11 F3 and F4 Options Evening
	24	25D	26E	27F	28	29	30	28-29/11 3 way conferences
December	1	2G	3A	4B	5C	6	7	6/12 Sports Day (Day 1); 2/12 - 19/12 F5 Assessment weeks
	8	9D	10E	11F	12G	13	14	13/12 Sports Day (Day 2)
	15	16A	17B	18C	19D	20	21	19/12 Winter Arts Showcase (Celebrating Cultural Diversity)
	22	23	24	25	26	27	28	25/12 Christmas Day; 26/12 The first weekday following Christmas Day
	29	30	31					23/12-4/1 School Christmas Holiday
January				1	2	3	4	1/1 New Year's Day
	5	6E	7F	8G	9A	10B	11	6/1 - 16/1 F6 HKDSE Mock Exam; 6/1 - 17/1 F6 IBDP Mock Exam
	12	13C	14D	15E	16F	17G	18	
	19	20A	21B	22C	23D	24	25	
	26	27	28	29	30	31		29-31/1 Lunar New Year; 27/1-5/2 School New Year Holiday
February							1	
	2	3	4	5	6E	7F	8	
	9	10G	11A	12B	13C	14D	15	
	16	17E	18F	19G	20A	21B	22	
	23	24C	25D	26E	27F	28G		
March							1	
	2	3A	4B	5C	6D	7E	8	7/3 HKDSE last school day
	9	10F	11G	12A	13B	14C	15	
	16	17D	18E	19F	20G	21A	22	
	23	24	25	26	27	28	29	24-28/3 Creative Week
	30	31B						
April			1C	2D	3E	4	5	4/4 Ching Ming Festival; 2/4 - 8/4 HKDSE exams (core subjects); 3/4 IBDP last school day
	6	7F	8G	9A	10B	11C	12	
	13	14D	15E	16	17	18	19	18/4 Good Friday; 19/4 The day following Good Friday
	20	21	22	23	24	25	26	21/4 Easter Monday
	27	28F	29G	30A				28/4 - 21/5 IBDP exams 29/4, 30/4 F3 TSA oral assessment
May					1	2B	3	1/5 Labour Day
	4	5	6C	7D	8E	9F	10	5/5 Buddha's Birthday; 6/5 - 21/5 F5 IBDP Exam
	11	12G	13A	14B	15C	16D	17	
	18	19E	20F	21G	22A	23B	24	19/5 - 29/5 F5 DSE Final Exam; 21/5 - 29/5 F4 Final Exam
	25	26C	27D	28E	29F	30	31	31/5 Tuen Ng Festival; 30/5 Staff Development Day 3
June	1	2G	3A	4B	5C	6	7	6/6 Form 6 Graduation
	8	9D	10E	11F	12G	13A	14	9/6 Form 3 Graduation
	15	16B	17C	18D	19E	20F	21	19/6 - 20/6 F3 TSA written assessment
	22	23G	24A	25B	26C	27	28	
	29	30						
July			1	2	3	4	5	1/7 Hong Kong Special Administrative Region Establishment Day
	6	7	8	9	10	11	12	
	13	14	15	16	17	18	19	16/7 HKDSE result release (Tentative)
	20	21	22	23	24	25	26	
	27	28	29	30	31			
						1	2	
August	3	4	5	6	7	8	9	
	10	11	12	13	14	15	16	
	17	18	19	20	21	22	23	

- Public Holiday
- School Holiday
- Staff Development Day
- Half day school