Leighton-China States Joint Venture

Contract SCL1123 – Exhibition Station & Western Approach Tunnel

Quarterly EM&A Report

for

FEP-13/364/2009/H & FEP-03/376/2009

[Period from May to July 2022]

(October 2022)

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Verified by: Claudine LEE

Position: Independent Environmental Checker

Date: <u>13 October 2022</u>

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Verified by: _____ FUNG Yiu Wah

Position: Environmental Team Leader

Date:

13 October 2022



Leighton – China State J.V.

Shatin to Central Link -Hung Hom to Admiralty Section

Works Contract 1123 -CEDD Entrusted Work for Road P2 & other roads and Slip Road 3

Quarterly Environmental Monitoring and Audit Report for

- May 2022 to July 2022 -

[October 2022]

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Version: 0

Date: 3 October 2022

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Table of Contents

EXECU	TIVE SUMMARY1
1.	INTRODUCTION
1.1 1.2	Purpose of the Report
2	PROJECT INFORMATION
2.1 2.2 2.3 2.4 2.5	Background4Site Description4Construction Programme and Activities5Project Organisation6Status of Environmental Licences, Notification and Permits7
3	ENVIRONMENTAL MONITORING REQUIREMENT
3.1 3.2	Construction Dust Monitoring
4	IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES
4 5	IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES
•	
5 5.1 5.2 5.3	MONITORING RESULTS 14 Construction Dust Monitoring 14 Regular Construction Noise Monitoring 14 Waste Management 15
5 5.1 5.2 5.3 5.4	MONITORING RESULTS 14 Construction Dust Monitoring 14 Regular Construction Noise Monitoring 14 Waste Management 15 Landscape and Visual 15
5 5.1 5.2 5.3 5.4 6	MONITORING RESULTS 14 Construction Dust Monitoring 14 Regular Construction Noise Monitoring 14 Waste Management 15 Landscape and Visual 15 ENVIRONMENTAL SITE INSPECTION AND AUDIT 16
5 5.1 5.2 5.3 5.4 6 7 7.1 7.2 7.3	MONITORING RESULTS 14 Construction Dust Monitoring 14 Regular Construction Noise Monitoring 14 Waste Management 15 Landscape and Visual 15 ENVIRONMENTAL SITE INSPECTION AND AUDIT 16 ENVIRONMENTAL NON-CONFORMANCE ERROR! BOOKMARK NOT DEFINED. Summary of Monitoring Exceedances 16 Summary of Environmental Non-Compliance 16 Summary of Environmental Complaints 16

i

Leighton – China State J.V.

List of Tables

- Table 2.1
 Contact Information of Key Personnel
- Table 2.2
 Status of Environmental Licenses, Notifications and Permits
- Table 3.1
 Air Quality Monitoring Equipment
- Table 3.2
 Locations of Construction Dust Monitoring Station
- Table 3.3
 Noise Monitoring Parameters, Frequency and Duration
- Table 3.4
 Noise Monitoring Equipment for Regular Noise Monitoring
- Table 3.5
 Noise Monitoring Station during Construction Phase
- Table 4.1
 Status of Required Submission under Further Environmental Permit
- Table 5.1
 Summary of 24-hour TSP Monitoring Result in the Reporting Period
- Table 5.2
 Summary of 1-hour TSP Monitoring Result in the Reporting Period
- Table 5.3
 Summary of Construction Noise Monitoring Results in the Reporting Period

List of Figures

Figure 1.1	Site Layout Plan of CEDD Entrusted Works under Contract 1123
Figure 3.1	Air Quality and Noise Monitoring Locations for CEDD Entrusted Works

List of Appendices

- Appendix A Construction Programme
- Appendix B Project Organisation Structure
- Appendix C Implementation Schedule of Environmental Mitigation Measures
- Appendix D Summary of Action and Limit Levels
- Appendix E Not used.
- Appendix F EM&A Monitoring Schedules
- Appendix G Air Quality Monitoring Results and their Graphical Presentations
- Appendix H Noise Monitoring Results and their Graphical Presentations
- Appendix I Event and Action Plan
- Appendix J Cumulative Statistics on Complaints, Notification of Summons and Successful Prosecutions
- Appendix K Quarterly Summary Waste Flow Table

EXECUTIVE SUMMARY

Shatin to Central Link Contract 1123 – CEDD Entrusted Work for Road P2 & other roads and Slip Road 3 (hereafter called "the Project") covers part of the construction of CEDD entrusted work under the granted Further Environmental Permit: FEP–03/376/2009 and FEP–13/364/2009 respectively.

The Project comprises the construction of Road P2 and other roads which are classified as primary/district distributor roads and Slip Road 3.

The EM&A programme commenced on 25 January 2021. The impact EM&A for the Project includes air quality and noise monitoring.

This report documents the findings of EM&A works conducted in the period between 1 May 2022 and 31 July 2022. As informed by the Contractor, major activities in the reporting period were:

Location	Site Activities		
	May 2022	June 2022	July 2022
Road P2 – West (Slip Road 3)	 Drainage works at Lung King Street. Breaking pavement/ gullies installation at west Roundabout area. Road re-pavement at Convention Avenue under Exhibition Centre completed and traffic diverted back. Coach park- Backfilling/ Road kerb. 	 Drainage works at Lung King Street. Breaking pavement/ gullies installation at west Roundabout area. Road re-pavement at Convention Avenue under Exhibition Centre completed and traffic diverted back. Coach park- Backfilling/ Road kerb. 	 Drainage works at Lung King Street. Planter wall at west Roundabout area. Road re-pavement at Convention Avenue under Exhibition Centre completed and traffic diverted back. Coach park - Road kerb/ Concrete paving.
Road P2 – East (Hung Hing Road)	 Fleming Road/ Convention Avenue- HEC cable installation/ Isolation islands construction. Hung Hing Road - Break bitumen. 	 Fleming Road/ Convention Avenue- HEC cable installation/ Isolation islands construction. Hung Hing Road - Break bitumen. 	 Fleming Road/Convention Avenue - road kerb, footpath construction /Ducting draw pit construction/ Tree shrubs planting Hung Hing Road - Soil replacement and irrigation pipe/ Tree and shrubs planting.
Road P2 – Permanent PTI (Public Transport Interchange)	 Substantial completed. Defects rectification. 	 Substantial completed. Defects rectification. 	 Substantial completed. Defects rectification.

Breaches of Action and Limit Levels for Air Quality

No exceedance of Action and Limit Level of air quality was recorded in the reporting period.

Breaches of Action and Limit Levels for Noise

Regular Noise Monitoring

No Action Level exceedance was recorded since no noise related complaint was received in the reporting period.

1

No exceedance of Limit Level of noise was recorded in the reporting period.

Complaint, Notification of Summons and Successful Prosecution

No complaint, notification of summons and successful prosecution were received in the reporting period.

Reporting Changes

There was no reporting change in the reporting period.

1. INTRODUCTION

Leighton – China State Joint Venture (JV) was commissioned by MTR as the Civil Contractor for CEDD Entrusted Works under Contract 1123. AECOM Asia Company Limited (AECOM) was appointed by JV as the Environmental Team (ET) to undertake the Environmental Monitoring and Audit (EM&A) programme during construction phase of the Project.

1.1 Purpose of the Report

1.1.1 This is the sixth quarterly EM&A Report which summaries the impact monitoring results and audit findings for the Project during the reporting period between 1 May 2022 and 31 July 2022.

1.2 Report Structure

- 1.2.1 This Quarterly EM&A Summary Report is organized as follows:
 - Section 1: Introduction
 - Section 2: Project Information
 - Section 3: Environmental Monitoring Requirement
 - Section 4: Implementation Status of Environmental Mitigation Measures
 - Section 5: Monitoring Results
 - Section 6: Environmental Site Inspection and Audit
 - Section 7: Environmental Non-conformance
 - Section 8: Future Key Issues
 - Section 9: Conclusions and Recommendations

2 **PROJECT INFORMATION**

2.1 Background

- 2.1.1 Road P2 and other roads which are classified as primary/district distributor roads identified as DP2 which covered in the Environmental Permit No. EP-376/2009 in the approved Wan Chai Development Phase II (WDII) and Central Wan Chai Bypass (CWB) comprising (i) a dual 2-lane primary distributor road, Road P2; and (ii) other new primary and district distributor roads connecting to the slip roads of the Central-Wan Chai Bypass.
- 2.1.2 Slip road 3 identified as part of DP1 which covered in the Environmental Permit No. EP-364/2009/H in the approved Wan Chai Development Phase II (WDII) and Central Wan Chai Bypass (CWB) comprising (i) slip roads to connect the CWB to the local road system in the Wan Chai North and Causeway Bay area; and (ii) associated road lighting, road signing, traffic control and surveillance system (iii) other associated works.
- 2.1.3 The Environmental Impact Assessment Report for Central - Wan Chai Bypass and Island Eastern Corridor Link (CWB&IECL) EIA Report (Register No. AEIAR-041/2001) and the Wan Chai Development Phase II and Central-Wan Chai Bypass (WDII&CWB) EIA Report (Register No. AEIAR-125/2008) which were approved on 31 August 2001 and 11 December 2008 under the Environmental Impact Assessment Ordinance (EIAO). Following the approval of the EIA Report, an Environmental Permits (EPs) were granted on 13 November 2009 and 22 April 2020 respectively, which covers Road P2 and other roads which are classified as primary/district distributor roads [DP2] and Central - Wan Chai Bypass (CWB) including its Road Tunnel and Slip Roads [DP1] (EP No.: EP-376/2009 and EP-364/2009/H), for the construction and Environmental Permits (FEP FEP-03/376/2009 operation. Further No. and FEP-13/364/2009/H) were both subsequently granted from the Director of Environmental Protection (DEP) on 2 June 2020, which cover the construction works for DP2 and a part of DP1 respectively.
- 2.1.4 The site layout plan of the Project is shown in **Figure 1.1**.

2.2 Site Description

- 2.2.1 The major construction activities under CEDD Entrusted Works of Contract 1123 include:
 - (a) Site preparation;
 - (b) Construct for dual 2-lane primary distributor road, Road P2;
 - (c) Construct for other new primary and district distributor roads connecting to the slip roads of the Central-Wan Chai Bypass;
 - (d) Construct for slip roads to connect the CWB to the local road system in the Wan Chai North and Causeway Bay area;
 - (e) Construct for associated road lighting, road signing, traffic control and surveillance system; and
 - (f) Construct for other associated works;

2.3 Construction Programme and Activities

Location	Site Activities		
	May 2022	June 2022	July 2022
Road P2 – West (Slip Road 3)	 Drainage works at Lung King Street. Breaking pavement/ gullies installation at west Roundabout area. Road re-pavement at Convention Avenue under Exhibition Centre completed and traffic diverted back. Coach park- Backfilling/ Road kerb. 	 Drainage works at Lung King Street. Breaking pavement/ gullies installation at west Roundabout area. Road re-pavement at Convention Avenue under Exhibition Centre completed and traffic diverted back. Coach park- Backfilling/ Road kerb. 	 Drainage works at Lung King Street. Planter wall at west Roundabout area. Road re-pavement at Convention Avenue under Exhibition Centre completed and traffic diverted back. Coach park - Road kerb/ Concrete paving.
Road P2 – East (Hung Hing Road)	 Fleming Road/ Convention Avenue- HEC cable installation/ Isolation islands construction. Hung Hing Road - Break bitumen. 	 Fleming Road/ Convention Avenue- HEC cable installation/ Isolation islands construction. Hung Hing Road - Break bitumen. 	 Fleming Road/Convention Avenue - road kerb, footpath construction /Ducting draw pit construction/ Tree shrubs planting Hung Hing Road - Soil replacement and irrigation pipe/ Tree and shrubs planting.
Road P2 – Permanent PTI (Public Transport Interchange)	 Substantial completed. Defects rectification. 	 Substantial completed. Defects rectification. 	 Substantial completed. Defects rectification.

2.3.1 The major construction activities undertaken in the reporting period are summarised below:

2.3.2 The construction programme is presented in **Appendix A**.

2.4 Project Organisation

2.4.1 The project organization structure is shown in **Appendix B**. The key personnel contact names and numbers for the Project are summarised in **Table 2.1**.

 Table 2.1
 Contact Information of Key Personnel

Party	Role	Position	Name	Telephone	Fax
MTR	Residential Engineer (ER)	Construction Manager	Mr. Mike Bezzano	3959 2128	3959 2200
Meinhardt	Independent Environmental Checker	Independent Environmental Checker	Ms. Claudine Lee	2859 5409	2540 1580
		Project Director	Mr. Brian Shepstone	3973 0838	
JV	Contractor	Environmental Engineer	Mr. Andy Leung	3973 1498	31051126
AECOM	Environmental Team (ET)	ET Leader	Mr. Y W Fung	3922 9366	2317 7609

2.5 Status of Environmental Licences, Notification and Permits

2.5.1 Relevant environmental licenses, permits and/or notifications on environmental protection for this Project and valid in the reporting period are summarized in **Table 2.2**.

 Table 2.2
 Status of Environmental Licenses, Notifications and Permits

Permit / License No.	Valid	Period			
/ Notification/ Reference No.	From	То	Status	Remarks	
Environmental Permit					
FEP-03/376/2009	2 Jun 2020	End of Contract	Valid		
FEP-13/364/2009/H	2 Jun 2020	End of Contract	Valid		
Construction Noise Pe	ermit				
-	-	-	-	-	
Wastewater Discharge	e License				
WT00040510-2022	10 May 2022	31 May 2027	Valid	For W21 & W22	
Chemical Waste Prod	ucer Registratio	n			
5213-135-L2881-01	02 Apr 2015	End of Contract	Valid	For whole site at Wan Chai Area	
Marine Dumping Perm	nit				
-	-	-	-	-	
Billing Account for Construction Waste Disposal					
7021736	16 Feb 2015	End of Contract	Valid	For Disposal of C&D Waste	
Notification Under Air Pollution Control (Construction Dust) Regulation					
385128	1 Mar 2015	End of Contract	Valid	For whole site at Wan Chai Area	

3 ENVIRONMENTAL MONITORING REQUIREMENT

3.1 Construction Dust Monitoring

Monitoring Requirements

3.1.1 In accordance with the approved EM&A Manuals, 24-hour and 1-hour Total Suspended Particulates (TSP) levels at the designated air quality monitoring station is required. Impact 24-hour monitoring should be carried out for at least once every 6 days and 1-hour TSP monitoring should be done at least 3 times every 6 days while the highest dust impact is expected. The Action and Limit level of the air quality monitoring is provided in **Appendix D**.

Monitoring Equipment

- 3.1.2 24-hour TSP air quality monitoring was performed using High Volume Sampler (HVS) located at the designated monitoring stations. The HVS meets all the requirements of the EM&A Manual.
- 3.1.3 A portable direct reading dust meter was used to carry out the 1-hour TSP monitoring.
- 3.1.4 Brand and model of the equipment is given in **Table 3.1**.

Table 3.1Air Quality Monitoring Equipment

Equipment	Brand and Model
High Volume Sampler (24-hour TSP)	Andersen Total Suspended Particulate Mass Flow Controlled High Volume Air Sampler (Model No. GS 2310 (S/N:10273)) (Model No. GS 2310 (S/N:3384))
Calibration Kit (24-hour TSP)	TISCH Environmental Orifice (Model TE-5025A (S/N: 843))
Portable direct reading dust meter (1-hour TSP)	Sibata Digital Dust Monitor (Model No. LD-3)

Monitoring Locations

3.1.5 The monitoring station for construction dust monitoring pertinent to the Project has been identified based on the approved EM&A Manual for SCL (HUH-ADM) of the Project. The location of the construction dust monitoring stations are summarised in **Table 3.2** and shown in **Figure 3.1**.

Table 3.2 Locations of Construction Dust Monitoring Station

Station ID	Dust Monitoring Station
CMA5b ¹	Pedestrian Plaza
CMA6a ¹	WDII PRE Site Office

Remark:

1. According to the updated site layout of CEDD Entrusted Works and Updated EM&A Manual for EP-376/2009 and EP-364/2009, Pedestrian Plaza (CMA5b) and WDII PRE Site Office (CMA6A) were selected as the most affected sensitive receiver during the construction phase.

Monitoring Methodology

- 3.1.6 24-hour TSP Monitoring
 - (a) The HVS was installed in the vicinity of the air sensitive receivers. The following criteria were considered in the installation of the HVS as far as practicable: -
 - (i) A horizontal platform with appropriate support to secure the sampler against gusty wind was provided.
 - (ii) Two samplers should not be placed less than 2m apart from each others;

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- (iii) The distance between the HVS and any obstacles, such as buildings, was at least twice the height that the obstacle protrudes above the HVS.
- (iv) A minimum of 2 meters separation from walls, parapets and penthouse for rooftop sampler.
- (v) A minimum of 2 meters separation from any supporting structure, measured horizontally is required.
- (vi) No furnace or incinerator flues nearby.
- (vii) Airflow around the sampler was unrestricted.
- (viii) The sampler was located more than 20 meters from any dripline.
- (ix) Any wire fence and gate, required to protect the sampler, did not obstruct the monitoring process.
- (x) Permission was obtained to set up the samplers and access to the monitoring station.
- (xi) A secured supply of electricity was obtained to operate the sampler.
- (b) Preparation of Filter Papers
 - (i) Glass fibre filters, G810 were labelled and sufficient filters that were clean and without pinholes were selected.
 - (ii) All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ±3 °C; the relative humidity (RH) was < 50% and not variable by more than ±5%. A convenient working RH was 40%.
 - (iii) All filter papers were prepared and analysed by ALS Technichem (HK) Pty Ltd., which is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes.
- (c) Field Monitoring
 - (i) The power supply was checked to ensure the HVS works properly.
 - (ii) The filter holder and the area surrounding the filter were cleaned.
 - (iii) The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.
 - (iv) The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.
 - (v) The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied was sufficient to avoid air leakage at the edges.
 - (vi) Then the shelter lid was closed and was secured with the aluminium strip.
 - (vii) The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.
 - (viii) A new flow rate record sheet was set into the flow recorder.
 - (ix) On site temperature and atmospheric pressure readings were taken and the flow rate of the HVS was checked and adjusted at around 1.3 m³/min, and complied with the range specified in the EM&A Manual (i.e. 0.6-1.7 m³/min).
 - (x) The programmable digital timer was set for a sampling period of 24 hrs, and the starting time, weather condition and the filter number were recorded.
 - (xi) The initial elapsed time was recorded.
 - (xii) At the end of sampling, on site temperature and atmospheric pressure readings were taken and the final flow rate of the HVS was checked and recorded.
 - (xiii) The final elapsed time was recorded.
 - (xiv) The sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact.
 - (xv) It was then placed in a clean envelope and sealed.
 - (xvi) All monitoring information was recorded on a standard data sheet.
 - (xvii) Filters were then sent to ALS Technichem (HK) Pty Ltd. for analysis.
- (d) Maintenance and Calibration
 - (i) The HVS and its accessories were maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.

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- (ii) HVSs were calibrated using TE-5025A Calibration Kit upon installation and thereafter at bi-monthly intervals.
- (iii) Calibration certificate of the TE-5025A Calibration Kit and the HVSs are provided in Monthly EM&A Report.
- 3.1.7 1-hour TSP Monitoring
 - (a) Measuring Procedures

The measuring procedures of the 1-hour dust meter are in accordance with the Manufacturer's Instruction Manual as follows:

- (i) Turn the power on.
- (ii) Close the air collecting opening cover.
- (iii) Push the "TIME SETTING" switch to [BG]
- (iv) Push "START/STOP" switch to perform background measurement for 6 seconds.
- (v) Turn the knob at SENSI ADJ position to insert the light scattering plate.
- (vi) Leave the equipment for 1 minute upon "SPAN CHECK" is indicated in the display.
- (vii) Push "START/STOP" switch to perform automatic sensitivity adjustment. This measurement takes 1 minute.
- (viii) Pull out the knob and return it to MEASURE position.
- (ix) Push the "TIME SETTING" switch the time set in the display to 3 hours.
- (x) Lower down the air collection opening cover.
- (xi) Push "START/STOP" switch to start measurement.
- (b) Maintenance and Calibration
 - The 1-hour TSP meter was calibrated at 1-year intervals against a continuous particulate TEOM Monitor, Series 1400ab. Calibration certificates of the Laser Dust Monitors are provided in Monthly EM&A Report.

Monitoring Schedule for the Reporting Period

3.1.8 The schedule for environmental monitoring between May 2022 to July 2022 is provided in Appendix F.

3.2 Construction Noise Monitoring

Monitoring Requirements

3.2.1 In accordance with the EM&A Manual, impact noise monitoring should be conducted for at least once a week during the construction phase of the Project. **Table 3.3** summarises the monitoring parameters, frequency and duration of impact noise monitoring. The Action and Limit level of the noise monitoring is provided in **Appendix D**.

Table 3.3 Noise Monitoring Parameters, Frequency and Duration

Parameter and Duration	Frequency
30-mins measurement at each monitoring station between 0700 and 1900 on normal weekdays. Leq, L ₁₀ and L ₉₀ would be recorded.	At least once per week

Monitoring Equipment

3.2.2 Noise monitoring was performed using sound level meter at each designated monitoring station. The sound level meters deployed comply with the International Electrotechnical Commission Publications (IEC) 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment is given in **Table 3.4**.

Table 3.4 Noise Monitoring Equipment for Regular Noise Monitoring

Equipment	Brand and Model
Integrated Sound Level Meter	Model No. B&K 2250 (S/N: 3001291) Model No. B&K 2270 (S/N: 3007965)
Acoustic Calibrator	Model No. B&K 4231 (S/N: 3014024 / N.004.04) Model No. Rion NC-74 (S/N:34246490 / N.004.10)

Monitoring Locations

3.2.3 The monitoring station for construction noise monitoring pertinent to the Project has been identified based on the approved EM&A Manual for SCL (HUH-ADM) of the Project. Location of the noise monitoring station is summarised in **Table 3.5** and shown in **Figure 3.1**.

Table 3.5 No	oise Monitoring	Station during	Construction Phase
--------------	-----------------	----------------	--------------------

Identification No.	District			
M1a ¹	Wan Chai	Footbridge for Ex-Harbour Road Sports Centre		

Remark:

 According to the updated site layout of CEDD Entrusted Works and Updated EM&A Manual for EP-376/2009 and EP-364/2009, Footbridge for Ex-Harbour Road Sports Centre (M1a) was selected as the most affected sensitive receiver during the construction phase.

Monitoring Methodology

- 3.2.4 Monitoring Procedure
 - (a) Façade measurements were made at M1a.
 - (b) The battery condition was checked to ensure the correct functioning of the meter.
 - (c) Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - (i) frequency weighting: A

- (ii) time weighting: Fast
- (iii) time measurement: L_{eq(30-minutes)} during non-restricted hours i.e. 0700 1900 on normal weekdays.
- (d) Prior to and after each noise measurement, the meter was calibrated using the acoustic calibrator for 94 dB(A) at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1 dB(A), the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- (e) During the monitoring period, the L_{eq} , L_{10} and L_{90} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- (f) Noise measurement was paused during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible. Observations were recorded when intrusive noise was unavoidable.
- (g) Noise monitoring was cancelled in the presence of fog, rain, wind with a steady speed exceeding 5m/s, or wind with gusts exceeding 10m/s.
- 3.2.5 Maintenance and Calibration
 - (a) The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
 - (b) The meter and calibrator were sent to the supplier or HOKLAS laboratory to check and calibrate at yearly intervals.
 - (c) Calibration certificates of the sound level meters and acoustic calibrators are provided in Monthly EM&A Report.

Monitoring Schedule for the Reporting Period

3.2.6 The schedule for environmental monitoring May 2022 to July 2022 is provided in Appendix F.

4 IMPLEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

4.1.1 The Contractor has implemented environmental mitigation measures and requirements as stated in the EIA Reports, the EP and EM&A Manuals. The implementation status of the environmental mitigation measures during the reporting period is summarized in **Appendix C.** Status of required submissions under the EP during the reporting period is summarised in **Table 4.1**.

Table 4.1 Status of Required Submission under Further Environmental Permit

EP Condition	Submission	Submission Date
Condition 3.3 (FEP-13//364/2009/H & FEP-03/376/2009)	Quarterly EM&A Report for Feb to Apr 2022	4 August 2022
Condition 3.3 (FEP-13//364/2009/H & FEP-03/376/2009)	Monthly EM&A Report for May 2022	17 June 2022
Condition 3.3 (FEP-13//364/2009/H & FEP-03/376/2009)	Monthly EM&A Report for June 2022	13 July 2022
Condition 3.3 (FEP-13//364/2009/H & FEP-03/376/2009)	Monthly EM&A Report for July 2022	12 August 2022

5 MONITORING RESULTS

5.1 Construction Dust Monitoring

5.1.1 The monitoring results for 24-hour TSP and 1-hour TSP are summarised in **Table 5.1** and **Table 5.2** respectively. Detailed air quality monitoring results are presented in **Appendix G**.

 Table 5.1
 Summary of 24-hour TSP Monitoring Result in the Reporting Period

ID	Average (μg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
CMA5b	31.4	14.3 – 73.2	209.9	260
CMA6a	17.3	5.8 – 39.0	207.1	260

T	
Table 5.2	Summary of 1-hour TSP Monitoring Result in the Reporting Period

ID	Average (μg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
CMA5b	64.0	58.8 – 68.1	339.7	500
CMA6a	62.4	57.2 - 68.9	333	500

- 5.1.2 No Action and Limit Level exceedance were recorded for 1-hour TSP monitoring at the monitoring locations in the reporting period.
- 5.1.3 No Action and Limit Level exceedance were recorded for 24-hour TSP monitoring at the monitoring locations in the reporting period.
- 5.1.4 The event and action plan is annexed in **Appendix I**.
- 5.1.5 Major dust sources during the monitoring included construction dust, nearby traffic emission and other nearby construction sites.

5.2 Regular Construction Noise Monitoring

5.2.1 The monitoring results for noise are summarized in **Table 5.3** and the monitoring data is provided in **Appendix H**.

Table 5.3 Summary of Construction Noise Monitoring Results in the Reporting Period

ID	Range, dB(A), L _{eq (30 mins)}	Limit Level, dB(A), L _{eq (30 mins)}
M1a ^(*)	<baseline< th=""><th>75</th></baseline<>	75

(*) Baseline correction will be made to the measured Leq when the measured noise level exceeded the corresponding baseline noise level and presented in the table.

- 5.2.2 No Action Level exceedance was recorded since no noise related complaint was received in the reporting period.
- 5.2.3 No Limit Level exceedance of noise was recorded at the monitoring station in the reporting period.
- 5.2.4 The event and action plan is annexed in **Appendix I**.
- 5.2.5 Major noise sources during the monitoring included construction noise from the Project site, nearby traffic noise and the community.

5.3 Waste Management

- 5.3.1 C&D materials and wastes sorting were carried out on site. Receptacles were available for C&D wastes and general refuse collection.
- 5.3.2 As advised by the Contractor, 1,826m³ of inert C&D material was generated and disposed of as public fill in the reporting period. No inert C&D materials were reused in other projects or in the Contract in the reporting period. No fill material was imported in the reporting period. 37,188m³ of general refuse was generated in the reporting period. No metal, paper/cardboard packaging material, plastic was collected by recycling contractor in the reporting period. No chemical waste was collected by licensed contractor in the reporting period. No Type 1 and Type 2 of Marine sediment were disposed of at Confined Marine Disposal Facility to the East of Sha Chau. The waste flow table is annexed in **Appendix K**.
- 5.3.3 The Contractor is advised to properly maintain on site C&D materials and wastes collection, sorting and recording system and maximize reuse / recycle of C&D materials and wastes. The Contractor is reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.
- 5.3.4 The Contractor is reminded that chemical waste containers should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes

5.4 Landscape and Visual

5.4.1 Weekly inspection of the implementation of landscape and visual mitigation measures was conducted. A summary of the implementation measures is provided in **Appendix C**Error! Reference source not found..

6 ENVIRONMENTAL SITE INSPECTION AND AUDIT

- 6.1.1 Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. A summary of the mitigation measures implementation schedule is provided in **Appendix C**.
- 6.1.2 In the reporting period, 14 site inspections were carried out between May 2022 and July 2022. No non-compliance was recorded during the site inspection. During environmental site inspections conducted during the reporting period, minor deficiencies were made.
- 6.1.3 All follow-up actions requested by Contractor's ET and IEC during the site inspection were undertaken as reported by the Contractor and confirmed in the following weekly site inspection conducted during the reporting period.

7 ENVIRONMENTAL NON-CONFORMANCE

7.1 Summary of Monitoring Exceedances

- 7.1.1 All 24-hour TSP result was below the Action and Limit level at all monitoring locations in the reporting period.
- 7.1.2 All 1-hour TSP result was below the Action and Limit level at all monitoring locations in the reporting period.
- 7.1.3 No Action Level exceedance was recorded since no noise related complaint was received in the reporting period.
- 7.1.4 No Limit Level exceedance for noise was recorded at all monitoring stations in the reporting period.

7.2 Summary of Environmental Non-Compliance

7.2.1 No environmental non-compliance was recorded in the reporting period.

7.3 Summary of Environmental Complaints

7.3.1 No environmental related complaint was received in the reporting period. Cumulative statistics on environmental complaints is provided in **Appendix J**.

7.4 Summary of Environmental Summon and Successful Prosecutions

7.4.1 No environmental related prosecution or notification of summons was received in the reporting period. Cumulative statistics on notification of summons and successful prosecutions is provided in **Appendix J**.

8 CONCLUSIONS AND RECOMMENDATIONS

8.1 Conclusions

- 8.1.1 24-hour TSP, 1-hour TSP and noise monitoring were carried out in the reporting period.
- 8.1.2 No Action and Limit Level exceedance was recorded for 24-hour TSP monitoring at the monitoring locations in the reporting period.
- 8.1.3 No Action and Limit Level exceedance was recorded for 1-hour TSP monitoring at the monitoring locations in the reporting period.
- 8.1.4 No Action Level exceedance was recorded since no noise related complaint was received in the reporting period.
- 8.1.5 No Limit Level exceedance for noise was recorded at all monitoring stations in the reporting period.
- 8.1.6 14 nos. of environmental site inspections were carried out in reporting period. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site audit.
- 8.1.7 No environmental complaint was received in the reporting period.
- 8.1.8 No notification of summons and successful prosecution were received in the reporting period.
- 8.1.9 Referring to the Contractor's information, no notification of summons and successful prosecution was received in the reporting period.

8.2 Recommendations

8.2.1 According to the environmental site inspections performed in the reporting period, the following recommendations were provided: -

Air Quality Impact

• The Contractor was reminded to provide mitigation measure e.g., regular watering and covering for open stockpile and haul road to prevent dust emission.

Construction Noise Impact

• No specific observation was identified in the reporting period.

Water Quality Impact

- The Contractor was reminded to set a wastewater treatment facility for W21 and W22.
- The Contractor was reminded to provide precautionary measures e.g., bunding to prevent surface runoff flowing to the public and stormwater drains.
- The Contractor should check the drainage system properly to ensure the wastewater is collected and treated before discharge.

Chemical and Waste Management

• The Contractor was reminded to provide precautionary e.g., drip tray for the chemicals

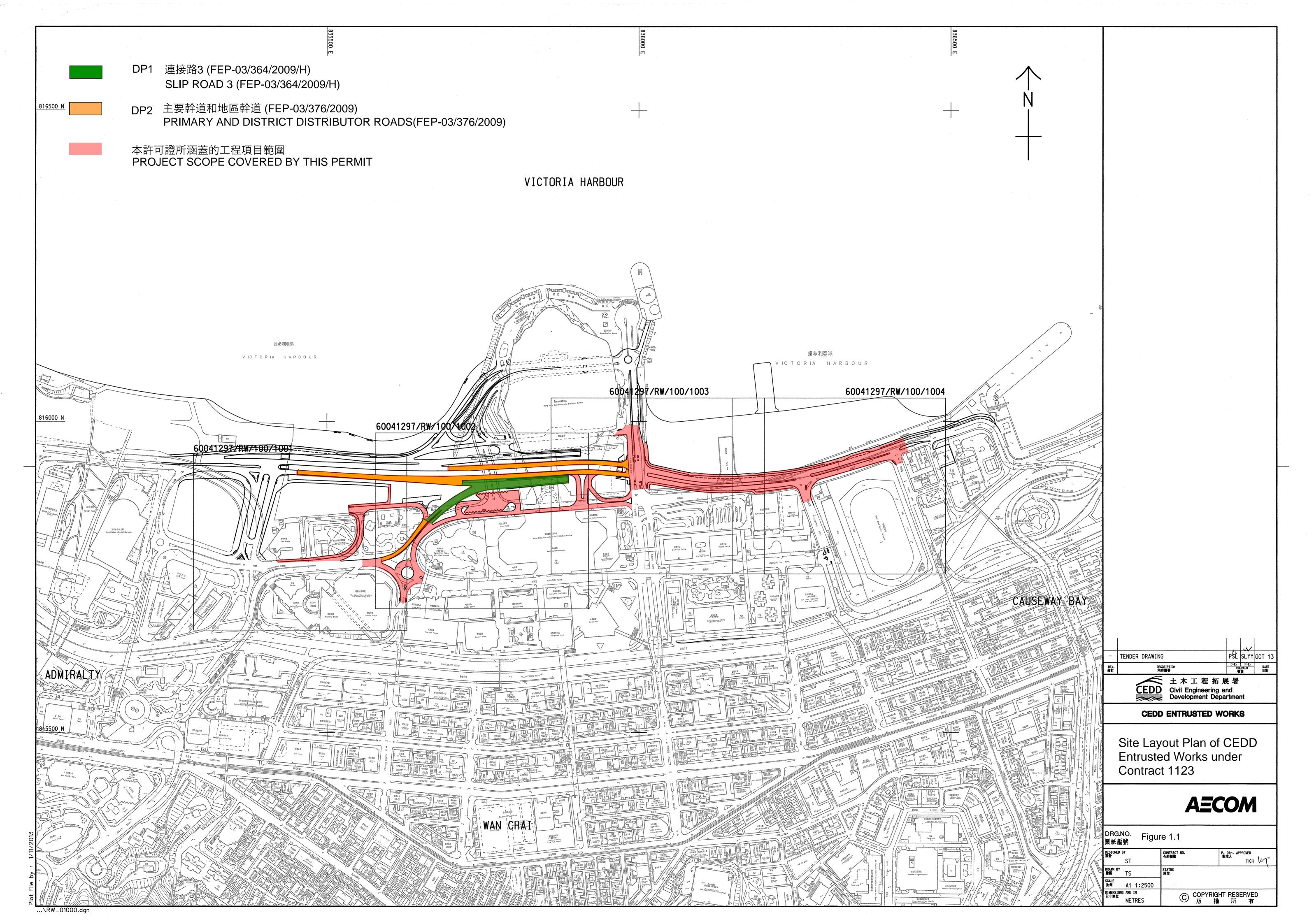
Landscape & Visual Impact

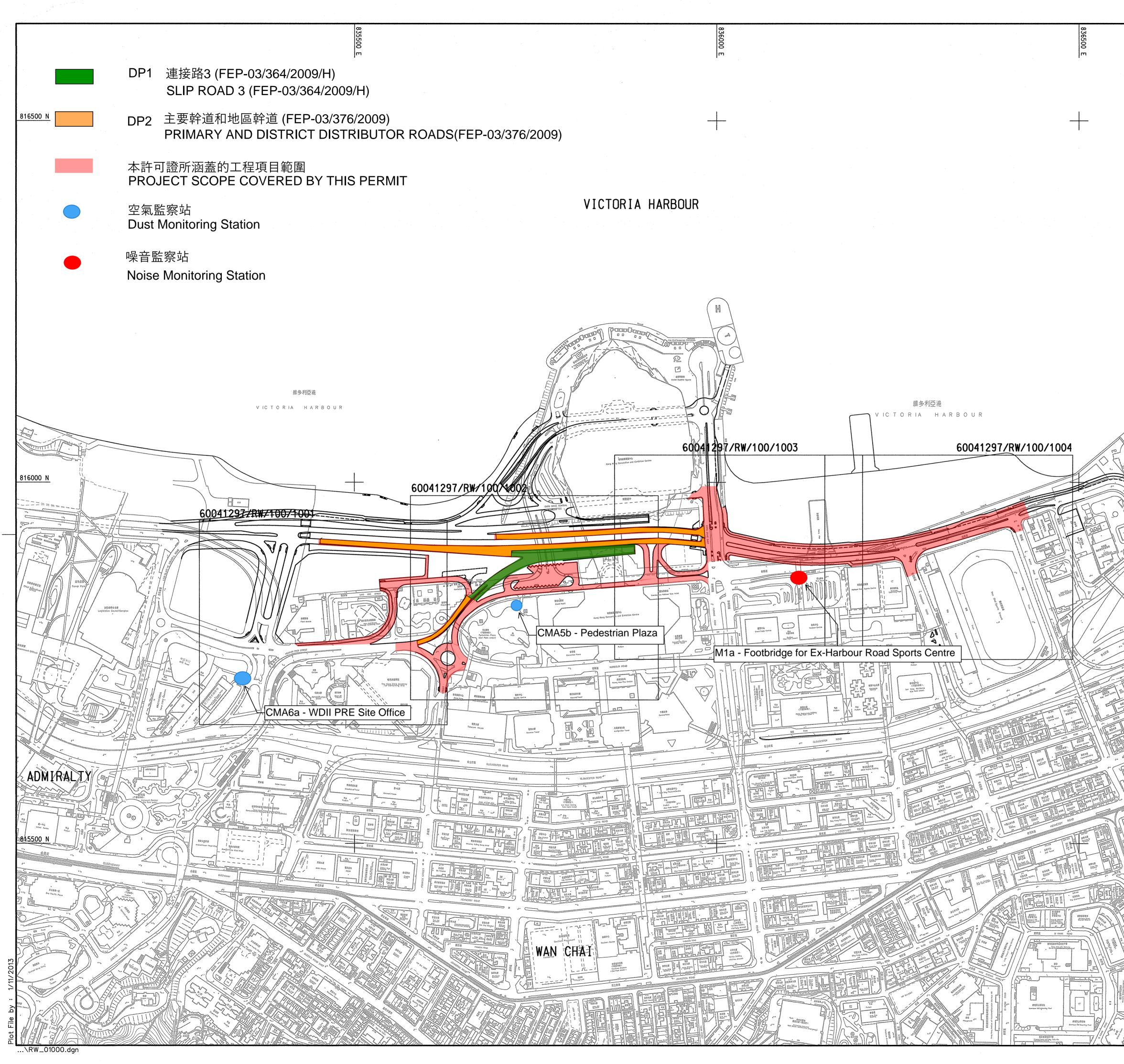
• No specific observation was identified in the reporting period.

Permits/licenses

• No specific observation was identified in the reporting period.

FIGURES





CAUSE WAY BAY	CEDD	D.E. P.E. SCRIPTION CHECKED 容易要 日期
		and Noise Monitoring for CEDD Entrusted
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APPENDIX A

Construction Programme

Task Name	Duration Start		Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov
EDD Entrusted works- Road P2- Slip Road 3	785 d? Jan 7 '20	Aug 3 '22	
SR3- TTM 1	457 d Jan 7 '20	Jul 13 '21	
SR3- TTM 1.2 -Coach Park Area:	36 d Jun 1 '21	Jul 13 '21	
Construct the gullies and drain -Assumed(after Area B backfill and	24 d Jun 1 '21	Jun 28 '21	Construct the gullies and drain -Assumed(after Area B backfill and E37/E28 Completion)
Backfill and reinstate temp pavement	12 d Jun 29 '21	Jul 13 '21	Backfill and reinstate temp pavement
SR3- TTM 2a	289 d May 28 '20	May 10 '21	
Interface with WDII	147 d Aug 22 '20	Feb 16 '21	
Handover P6B & P6C and P6E	0 d Feb 16 '21	Feb 16 '21	A Handover P6B & P6C and P6E
SR3 TTM 2a.2 – Slip Road 3 and Coach parking area	287 d May 30 '20	May 10 '21	
Construct watermain F19 tee and fire hydrant	12 d Jan 25 '21	Feb 6 '21	Construct watermain F19 tee and fire hydrant Construct part of irrigation main and pipe sleeve for WP7-2
Construct part of irrigation main and pipe sleeve for WP7-2	6 d Feb 8 '21	Feb 13 '21	Construct part of imgation main and pipe sieve for wP7-2
Construct kerbline and footpath pavement Remove & Re-construct asphalt pavement for Slip Road 3 and	48 d Feb 15 '21 24 d Apr 12 '21	Apr 10 '21 May 10 '21	Remove & Re-construct asphalt pavement for Slip Road 3 and Convention Avenue W/B
SR3 TTM 2a.3 – Reboundout-Planter No. 3	48 d Dec 24 '20	Feb 20 '21	
Construction the permanent traffic island at southside	24 d Jan 25 '21	Feb 20 '21	Construction the permanent traffic island at southside
SR3 TTM 2b.2 –Permanent Slip Road 3 construction (2nd portion)	126 d Jan 25 21	Jun 18 '21	
Construct drainage	36 d Jan 22 '21	Mar 4 '21	Construct drainage
Construct drainage Construct watermain F17	24 d Mar 5 '21	Apr 1 '21	Construct watermain F17
Construct watermain F17	24 d Mar 5 21 24 d Apr 2 '21	Apr 1 21 Apr 29 '21	Construct watchindin 12/
Construct gantry roundation Construct road kerb & central divider	18 d Apr 30 '21	May 21 '21	Construct road kerb & central divider
Construct asphalt pavement	12 d May 22 '21	Jun 4 '21	Construct asphalt pavement
Construct temp street light	12 d Way 22 21	Jun 18 '21	Construct temp street light
SR3 TTM 2b.3 -Temp Road (Temp LungKing Street)	24 d Jun 19 '21	Jul 17 '21	
Construct temp. road	12 d Jun 19 21	Jul 3 '21	Construct temp. road
Construct temp street light	12 d Jul 5 21	Jul 17 '21	Construct temp street light
SR3- TTM 3	265 d Feb 20 '21	Dec 30 '21	
Interface with WDII	0 d Aug 12 '21	Aug 12 '21	♦ Interface with WDII
Handover P6	0 d Aug 12 '21	Aug 12 '21	Handover P6
SR3 TTM 3.1: Divert CEB to Permanent Slip Road 3	87 d Apr 9 '21	Jul 21 '21	
Preparation woks for divert CWB traffic to Slip Road 3	72 d Apr 9 '21	Jul 5 '21	Preparation woks for divert CWB traffic to Slip Road 3
Divert CWB traffic to Slip Road 3	3 d Jul 19 '21	Jul 21 '21	Divert CWB traffic to Slip Road 3
SR3 TTM 3.2 : Close Detoured Slip Road 3	3 d Jul 22 '21	Jul 24 '21	
Close Detoured Slip Road 3	3 d Jul 22 '21	Jul 24 '21	Close Detoured Slip Road 3
SR3 TTM 3.3 : Temp lungKing Road	3 d Jul 26 '21	Jul 28 '21	
Divert Traffic to Temp. Lung King Road	3 d Jul 26 '21	Jul 28 '21	Divert Traffic to Temp. Lung King Road
SR3 TTM 3.4 -Reboundout	108 d Jul 22 '21	Nov 25 '21	
De-commission of traffic light system and change to free flow road	6 d Jul 22 '21	Jul 28 '21	De-commission of traffic light system and change to free flow road junction
Construct drainage	48 d Jul 29 '21	Sep 22 '21	Construct drainage
Construct irrigation main	12 d Sep 23 '21	Oct 7 '21	Construct irrigation main
Construct permanent planters	30 d Oct 8 '21	Nov 11 '21	Construct permanent planters
construction of Rest of the Traffic Island at Harbour Road	12 d Nov 12 '21	Nov 25 '21	construction of Rest of the Traffic Island at Harbour Road
SR3 TTM 3.5 -LungKing Street	265 d Feb 20 '21	Dec 30 '21	
Land W22 Access	0 d Feb 20 '21	Feb 20 '21	Land W22 Access
Land W21 Access	0 d Feb 20 '21	Feb 20 '21	◆ Land W21 Access
Temp Road Diversion of existing MVB(CWB) EVA	24 d Mar 26 '21	Apr 22 '21	Temp Road Diversion of existing MVB(CWB) EVA
Construct Part (bay 1-4) retaining wall and drainage/lighting duct	150 d Apr 23 '21	Oct 18 '21	Construct Part (bay 1-4) retaining wall and drainage/lighting duct
Construct remaining retaining wall	48 d Jul 29 '21	Sep 22 '21	Construct remaining retaining wall
Construct remaining drainage	48 d Sep 23 '21	Nov 18 '21	Construct remaining drainage
Construct site formation and road kerb	18 d Nov 19 '21	Dec 9 '21	Construct site formation and footpath
Construct asphalt road pavement and footpath SR3- TTM 4	18 d Dec 10 '21 90 d Nov 26 '21	Dec 30 '21 Mar 11 '22	
	6 d Nov 26 '21		
SR3 TTM 4.1 -Reboundout Divert the Traffic to outmost lanes	6 d Nov 26 21	Dec 2 '21 Dec 2 '21	Divert the Traffic to outmost lanes
SR3 TTM 4.2 - Lung King Street/Fenwick Pier Street	60 d Dec 31 '21	Mar 11 '22	
Construct drainage & gully	36 d Dec 31 21	Feb 11 '22	Construct drainage & gully
Construct Granage & guily Construct Footpath	24 d Feb 12 '22	Mar 11 '22	Construct Footpath
SR3- TTM 5	123 d Jul 22 '21	Dec 13 '21	
Interface with WDII	0 d Nov 12 '21	Nov 12 '21	♦ Interface with WDII
Handover Land- P5	0 d Nov 12 '21	Nov 12 '21	Handover Land- P5
SR3 TTM 5.1 -Temp Road Diversion for Lung Wo Road	48 d Jul 22 '21	Sep 15 '21	
Temp Road Construction	24 d Jul 22 '21	Aug 18 '21	Temp Road Construction
TTM Diversion	24 d Aug 19 '21	Sep 15 '21	TTM Diversion

CONTRACT NO.SCL1123

Shatin to Central Link Contract 1123- Exhibition Station and Western Approach Tunnel

CEDD Entrusted Works

Page 1

00	Task Name	Duration	Start	Finish	Dec	2021 Jan	Ech	Mar Apr May	lue	Jul	Aug	Son	Oct New	Dec	2022 Jan	Feb	Mar	
88	SR3 TTM 5.2 - Re-alignment Lung Wo Road(W/B)	60 d	Sep 16 '21	Nov 25 '21		Jg[]	гер	ινιαι Αμι Μαγ	Jun	JUI	Aug	зер		Dec	Jall	reb	IVIDI	+
89	Reconstruct drainage and Gullies	36 d	Sep 16 '21	Oct 28 '21									Recon	struct drai	nage and	Gullies		
90	Reconstruct Road kerb and Pavement	24 d	Oct 29 '21	Nov 25 '21										•	ruct Road			er
91	Removal of De-toured Slip Road 3		Oct 29 '21	Nov 25 '21										Removal	l of De-to	ured Slip	א Road 3	_
92	SR5 TTM 5.3 -Reconstruct kerbline and Pavement between Lung		Sep 16 '21	Dec 13 '21														
93	 Reconstruct kerbline and Pavement between Lung Wo road (w/b) & 		Sep 16 '21	Dec 13 '21										-Re	econstruc	t kerblin	ie and Pa	V
94	SR3- TTM 6		Feb 22 '21	Aug 3 '22														_
95	SR3 TTM 6.1 - Lung Wo Road North		Nov 26 '21	Aug 3 '22	-													_
96	Divert traffic to South side of Lung Wo Road		Nov 26 '21	Dec 2 '21										Divert	traffic to	South si	de of Lur	g
97 98	Drainage and raod works at North side	108 d		Apr 8 '22	-		_		_					-		+		-
98 99	Removal of Temp Road Reinstatement of Planter Area	24 d	Apr 9 '22 May 7 '22	May 6 '22 Aug 3 '22	-													-
100	SR3 TTM 6.2 - Abandoned Lung King Street		Feb 22 '21	Feb 8 '22														-
101	Removal and abondoned Lung King Street		Dec 14 '21	Feb 8 '22											<u> </u>	Rem	noval and	Ē
102			Feb 22 '21	Feb 22 '21														-
	Removal of Temp Slip Road		Sep 21 '20	Mar 30 '21											-			-
128	Removal of Temp Slip Road		Jan 16 '21	Feb 1 '21			Remov	val of Temp Slip Road									-	-
129	Trimming D-wall Panels(L92-L101& L34-L37)	20 d		Feb 24 '21				Trimming D-wall Panels(L	92-L101& L	34-L37)				_	1		-	+
130	Continue rest Drainage and sewage construction	24 d	Feb 25 '21	Mar 24 '21				Continue rest Dra	inage and	sewage	constructi	on					-	1
131	No fine Concrete Backfill	5 d	Mar 25 '21	Mar 30 '21				No fine Concre	e Backfill									1
132	B400 (EVA)	54 d	Feb 25 '21	Apr 28 '21	·													
133	Complete Remaining Drainage		Feb 25 '21	Mar 24 '21	-			Complete Remai	-	-								
134	Site Formation/Road Kerb/Pedestrian Crossing		Mar 25 '21	Apr 14 '21				Site Forma				rossing						_
135	Road works and EVA ready		Apr 15 '21	Apr 28 '21				Road v	orks and E	VA read	/			_				_
	B300	104 d		Jun 2 '21					(000)/0									_
137	Close Area C1 opening (DRD)/Backfill		Feb 1 '21	Mar 13 '21				Close Area C1 openi Break D-w			Complet	o Romai	ning dringgo					_
138 139	Break D-wall (L90-91& L32-33)Complete Remaining drinage		Mar 15 '21	Apr 15 '21				Comple	-		Complet	e Keman	ning unnage					_
139 140	Complete Remaining UU Site Formation/Road Kerb/Pedestrian Crossing		Apr 16 '21 Apr 28 '21	Apr 27 '21 May 19 '21					Site Format		d Kerb/Pe	destrian	Crossing	_				-
140 141	Final Road works and Road marking		May 20 '21	Jun 2 '21					Final Ro									-
142	CEDD Entrusted works-Road P2- Hung Hing Road		Jul 29 '20	May 25 '22									-0					+
143			Jul 29 '20															_
143	TTM1-Divert Convention Avenue and Hung Hing Road		Jui 29 20 Nov 4 '20	May 29 '21 May 29 '21														-
150	TTM1-Road works at Convention Avenue and Hung Hing Road Underground Drinage and Utilities		Nov 25 '20	Mar 12 '21				Underground Drinag	e and Utilit	ies				_	+			_
150 151	Permanent Road Formation		Feb 20 '21	Apr 2 '21				Permanent Ro										-
152	Permanent Road pavement and Footpath	24 d		Apr 30 '21					nent Road		nt and Fo	otpath			1			+
153	Interface transition pavement works		May 3 '21	May 29 '21					Interface	transiti	on pavem	ent work	s		+			-
	TTM2-Divert East direction to permanent alignment		, Mar 31 '21	Nov 2 '21														-
154	This biver Last an ection to permanent angiment			Jun 26 '21	-					Constuct	Temp roa	ad					_	-
	Constuct Temp road	24 d	May 31 '21	JUII ZO ZI	•													T
155			May 31 '21 Mar 31 '21	Jun 26 '21						Apply TT	M and Ap	proval						_
155 156	Constuct Temp road	75 d	-								M and Ap lement TT				<u> </u>			_
155 156 157	Constuct Temp road Apply TTM and Approval	75 d 12 d	Mar 31 '21	Jun 26 '21							-							_
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- CONTRACT NO.SCL1123 Shatin to Central Link
- Contract 1123- Exhibition Station and Western Approach Tunnel

CEDD Entrusted Works

Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
nt								
ement be	etween L	ung Wo r	oad (w/b) & CWB	Tunnel(V	V/B)-Nigh	t works	
g Wo Roa	d							
Drain	age and		ks at Nor	th side				
	Remo	val of Tei	mp Road	Reinsta	toment	of Planter	Area	
				itemste			Alca	
abondon	ed Lung I	King Stree	et					
	<u> </u>							
ge and U	tilities							
n/Road K	(erb							
nent Road			ns nt works					
		pavenie						
pply TTN								
Imp	lement T		nt Foot p	ath and C	entral Isl	and Cons	truction	
								Conventio

Page	2
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ID	Task Name	Duration	Start	Finish		2021								2022										
					Dec	Jan	Feb Ma						Dec	Jan	Feb	Mar A	or Ma	y Jun	Jul	Aug	Sep	Oct	Nov	Dec
181	Road Kerb and Footpath Pavement -South of Convention Avenue	48 d	Feb 3 '21	Mar 30 '21				Road Kerb and Footpath	Pavemen	t -South	of Conventio	on Avenue												
182	Middle Part- Remaining Drainage work	28 d	Jan 16 '21	Feb 17 '21			Middle	Part- Remaining Drainage wo	ĸ															1
183	Middle Part- Irrigation works and Road Kerb	28 d	Feb 18 '21	Mar 22 '21				Middle Part- Irrigation wor	s and Ro	ad Kerb														
184	TTM2- Divert West direction to South	151 d	Jan 2 '21	Jun 28 '21																				
185	Apply TTM2 and Approval	75 d	Jan 2 '21	Mar 31 '21				Apply TTM2 and Approv	l															
186	Implement TTM2	12 d	Mar 31 '21	Apr 13 '21				Implement TTM2																
187	Remaining Drainage Works-Middle part	28 d	Apr 14 '21	May 17 '21				Remaining	Drainage	Works-N	/liddle part													
188	Irrigation and landscape works -Middle part	28 d	May 18 '21	Jun 18 '21					rigation a	nd lands	cape works	Middle part												
189	Road Kerb-North of Comvention Anenue	18 d	Jun 8 '21	Jun 28 '21					Road Ke	rb-North	of Comvent	tion Anenue												
190	TTM3- to Final Alignment	129 d	Apr 1 '21	Aug 31 '21																				
191	Apply TTM2 and Approval	75 d	Apr 1 '21	Jun 29 '21					Apply T	「M2 and	Approval													
192	Permanent TTM at PTI approval (no drawing now)	75 d	Apr 1 '21	Jun 29 '21					Perman	ent TTM	at PTI appro	val (no drawin	g now)											
193	Area C2-Road works Completed	0 d	Jun 29 '21	Jun 29 '21					Area C	-Road w	orks Comple	eted												
194	works at Expro East completed	0 d	Jun 29 '21	Jun 29 '21					works a	at Expro I	East complet	ed												
195	Implement TTM3- to Final Alignment	6 d	Jun 29 '21	Jul 6 '21					Imple	ment TTI	M3- to Final	Alignment												
196	Road Kerb and Footpath Pavement/road lighting -North of Convention	24 d	Jul 7 '21	Aug 3 '21						Road I	Kerb and Fo	otpath Paveme	ent/road l	ighting -N	lorth of Co	vention Av	enue							
197	Road Lighting /rails and Final touch up	24 d	Aug 4 '21	Aug 31 '21							Road Ligh	ting /rails and	Final touc	h up										

	ιr	Iti	са	l

Critical Split

Task

Milestone •

Summary

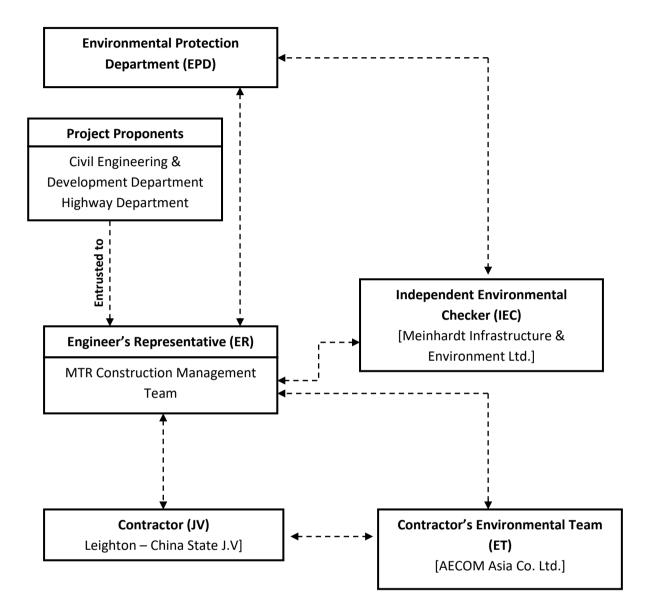
CEDD Entrusted Works

Critical

APPENDIX B

Project Organization Structure

Appendix B Project Organisation Structure



APPENDIX C

Implementation Schedule of Environmental Mitigation Measures Leighton – China State J.V.

Appendix C – Environmental Mitigation Implementation Schedule

EIA Ref.	Recommended Mitigation Measures	Who to implement the measures?	Location of the measure
Construct	ion Dust Impact	<u> </u>	
Construct	ion Phase		
S3.6.5	Four times a day watering of the work site with active operations	Contractor	Works areas
S3.8.1	Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimise cumulative dust impacts.	Contractor	Works areas
	 Strictly limit the truck speed on site to below 10 km per hour and water spraying to keep the haul roads in wet condition; 		
	Watering during excavation and material handling;		
	 Provision of vehicle wheel and body washing facilities at the exit points of the site, combined with cleaning of public roads where necessary; and 		
	Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.		
/	 Dust suppression measures (con't) De-bagging, batching and mixing processes carried out in sheltered areas during the use of bagged cement The portion of any road where along the site boundary should be kept clear of dusty materials. Use of frequent watering for any dusty construction process (e.g. breaking works) to reduce dust emissions. 	Contractor	Works areas
/	 Emission from Vehicles and Plants All vehicles shall be shut down in intermittent use. Only well-maintained plant should be operated on-site and plant should be serviced regularly to avoid emission of black smoke. All diesel fuelled construction plant within the works areas shall be powered by ultra low sulphur diesel fuel (ULSD) 	Contractor	Works areas
Airborne I	Noise Impact		
Construct	ion Phase		
S4.9.4	 Good Site Practice: Only well-maintained plant shall be operated on-site and plant shall be serviced regularly during the construction program. Silencers or mufflers on construction equipment shall be utilized and shall be properly maintained during the construction program. Mobile plant, if any, shall be sited as far away from NSRs as possible. Machines and plant (such as trucks) that may be in intermittent use shall be shut down between works periods or shall be throttled down to a minimum. Plant known to emit noise strongly in one direction shall, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. Material stockpiles and other structures shall be effectively utilized, wherever practicable, in screening noise from onsite construction activities. 	Contractor	Works areas

Shatin to Central Link 1123 - CEDD Entrusted Work Road P2 & other roads and Slip Road 3 Monthly EM&A Report for May to July 2022

When to implement the measures?	Implementation Status
Construction phase	V
Construction phase	
	@
	@
	V
	V
Construction phase	
	V V
	V
Construction phase	
	V V
	V
Construction phase	V
	V
	V
	V
	V
	V

AECOM

Leighton – China State J.V.

Appendix C – Environmental Mitigation Implementation Schedule

EIA Ref.	Recommended Mitigation Measures	Who to implement the measures?	Location of the measure	When to implement the measures?	Implementation Status
or DP1 -	CWB (Within the Project Boundary)				
54.8.3 – 54.8.5	Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: Slip road 8 tunnel Construction of diaphragm wall and substructures of the tunnel approach ramp Excavation Construction of slabs Backfill Demolition and construction of substructures for the IEC Demolition works of existing piers and crossheads of the marine section of the existing IEC Use of PME grouping for the following tasks: At-grade roadwork 	Contractor	Works areas	Construction phase	N/A V V V N/A N/A N/A V
	Substructure for IECL connection				N/A
	WDII Major Roads (Road P2)		I		1
54.8.3 – 54.8.4	Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: Temporary road diversion Resurfacing At-grade roadwork 				V V V
Vater Qua	ality Impact	L			
construct	ion Phase				
5.8	 Construction Runoff and Drainage: Use of sediment traps, wheel washing facilities for vehicles leaving the site, and adequate maintenance of drainage systems to prevent flooding and overflow; Permanent drainage channels shall incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities shall be based on the guidelines in Appendix A1 of ProPECC 	Contractor	Works areas	Construction phase	v v
	 PN 1/94; A sediment tank constructed from preformed individual cells of approximately 6 - 8 m³ capacity can be used for 				@
	 settling ground water prior to disposal; Oil interceptors shall be provided in the drainage system for the tunnels and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor shall 				V
	 have a bypass to prevent flushing during periods of heavy rain; Precautions and actions to be taken when a rainstorm is imminent or forecast, and during or after rainstorms. 				@
	 Particular attention shall be paid to the control of any silty surface runoff during storm events; On-site drainage system shall be installed prior to the commencement of other construction activities. Sediment 				V
	 traps shall be installed in order to minimize the sediment loading of the effluent prior to discharge; All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge shall be adequately designed for the controlled release of storm flows. All sediment control measures shall be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage shall be reinstated to its original condition when the construction work 				@

Shatin to Central Link 1123 - CEDD Entrusted Work Road P2 & other roads and Slip Road 3 Monthly EM&A Report for May to July 2022

AECOM

Appendix C – Environmental Mitigation Implementation Schedule

EIA Ref.	Recommended Mitigation Measures	Who to implement the measures?	Location of the measure
	Minimum distances of 100 m shall be maintained between the storm water discharges and the existing or planned WSD flushing water intakes during construction phase		
S5.8	Sewage from Construction Work Force: Construction work force sewage discharges on site shall be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage shall be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices.	Contractor	Works areas
S5.8	<i>Floating Debris and Refuse:</i> Collection and removal of floating refuse shall be performed at regular intervals on a daily basis. The contractor shall be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish.	Contractor	Works areas and adjacent water
S5.8	Storm Water Discharges: Minimum distances of 100 m shall be maintained between the existing or planned stormwater discharges and the existing or planned WSD flushing water intakes.	Contractor	Works areas and adjacent water
Waste Ma	nagement Implications	1	
Construct	tion Phase		
S6.7.7	 Good Site Practices: Recommendations for good site practices during the construction activities include: Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; Training of site personnel in proper waste management and chemical waste handling procedures; Provision of sufficient waste disposal points and regular collection for disposal; Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; and A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites). 	Contractor	Works areas
S6.7.8	 Waste Reduction Measures: Recommendations to achieve waste reduction include: Sort C&D waste from demolition of the existing waterfront structures to recover recyclable portions such as metals. Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. Encourage collection of aluminium cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force. Any unused chemicals or those with remaining functional capacity shall be recycled. Use of reusable non-timber formwork, such as in casting the tunnel box sections, to reduce the amount of C&D material. Prior to disposal of C&D waste, it is recommended that wood, steel and other metals shall be separated for reuse and / or recycling to minimise the quantity of waste to be disposed of to landfill. Proper storage and site practices to minimise the potential for damage or contamination of construction materials. Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. 	Contractor	Works areas

Shatin to Central Link 1123 - CEDD Entrusted Work Road P2 & other roads and Slip Road 3 Monthly EM&A Report for May to July 2022

When to implement the measures?	Implementation Status
	V
Construction phase	V
Construction phase	V
Construction phase	V
During planning and design stage, and construction stage	V
	V V V
	V V
During planning and design stage, and construction stage	V
	V V
	V V
	V
	V
	V

Appendix C – Environmental Mitigation Implementation Schedule

EIA Ref.	Recommended Mitigation Measures	Who to implement the measures?	Location of the measure	When to implement the measures?	Implementation Status
S6.7.10	 General Refuse: General refuse shall be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector shall be employed by the contractor to remove general refuse from the site, separately from 	Contractor	Works areas	Construction phase	V
	 C&D material. A collection area shall be provided where wastes can be stored and loaded prior to removal from site. An enclosed and covered area is recommended to reduce the occurrence of 'wind blow' light material. 				V
56.7.11	Chemical Wastes: After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) shall be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals shall be collected by a licensed collector for disposal at the CWTF or other licensed facility in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	Contractor	Works areas	Construction phase	V
S6.7.12 – S6.7.13	 Construction and Demolition Material: C&D material shall be sorted on-site into inert C&D material (that is, public fill) and C&D waste. All the suitable inert C&D material shall be broken down to 250 mm in size for reuse as public fill in the WDII reclamation. C&D waste, such as wood, glass, plastic, steel and other metals shall be reused or recycled and, as a last resort, disposed of to landfill. A suitable area shall be designated to facilitate the sorting process and a temporary stockpiling area will be required for the separated materials. In order to monitor the disposal of public fill and C&D waste at public fill reception facilities and landfills, respectively, and to control fly tipping, a trip-ticket system shall be included as one of the contractual requirements and implemented by the Environmental Team undertaking the environmental monitoring and audit work. An Independent Environment Checker shall be responsible for auditing the results of the system. 	Contractor	Works areas	Construction phase	V V
56.7.14	 Bentonite Slurry: The disposal of residual used bentonite slurry shall follow the good practice guidelines stated in ProPECC PN 1/94 "Construction Site Drainage" and listed as follows: If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis. If the used bentonite slurry is intended to be disposed of through the public drainage system, it shall be treated to the respective effluent standards applicable to foul sewers, storm drains or the receiving waters as set out in the Technical Memorandum of Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters. If the used bentonite slurry is intended to be disposed to public fill reception facilities, it will be mixed with dry soil on site before disposal. 	Contractor	Works areas	Construction phase	N/A N/A N/A
/	 Accidental spillage To prevent accidental spillage of chemicals, the following is recommended: Proper storage and handling facilities will be provided. All the tanks, containers, storage area will be bunded and the locations will be locked as far as possible from the sensitive watercourse and stormwater drains. The contractor will register as a chemical waste producer if chemical wastes would be generated. Storage of chemical waste arising from the construction activities will be stored with suitable labels and warnings. Disposal of chemical wastes will be conducted in compliance with the requirements as stated in the Waste disposal (Chemical Waste) (General) Regulation. 	Contractor	Works areas	Construction phase	@ V V V
Land Cont	amination Impact				
S.7.1.1	As no potential contaminative land uses were identified within the Study Area, adverse land contamination impacts associated with the construction and operation of the Project is not expected. As such, environmental protection and mitigation measures are considered not necessary and will not be covered in this EM&A Manual.	-	-	-	N/A

Shatin to Central Link 1123 - CEDD Entrusted Work Road P2 & other roads and Slip Road 3 Monthly EM&A Report for May to July 2022

Leighton – China State J.V.

Appendix C – Environmental Mitigation Implementation Schedule

EIA Ref.	Recommended Mitigation Measures	Who to implement the measures?	Location of the measure	1
Landscape	and Visual			
Construct	ion Phase			
For DP1 –	CWB (Within the Project Boundary) and DP2 - WDII Major Roads (Road P2)			
Table 10.5	works, where practical.	Contractor	Works areas	
	CM2 - Existing trees to be retained on site shall be carefully protected during construction.			
	CM3 - Trees unavoidably affected by the works shall be transplanted where practical.			
	CM4 - Compensatory tree planting shall be provided to compensate for felled trees.			
	CM5 - Control of night-time lighting.			
	CM6 - Erection of decorative screen hoarding compatible with the surrounding setting.			

Legend: V = implemented;

= not implemented; Х

@ = partially implemented;

N/A = not applicable

Shatin to Central Link 1123 - CEDD Entrusted Work Road P2 & other roads and Slip Road 3 Monthly EM&A Report for May to July 2022

	When to implement the measures?	Implementation Status
	Construction phase	V
		N/A
		N/A
		N/A
ļ		V
		N/A

APPENDIX D

Summary of Action and Limit Levels

Appendix D – Summary of Action and Limit Levels

Table 1 Action and Limit Levels for 24-hou	' TSP
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ID	Location	Limit Level	
CMA5b	Pedestrian Plaza	209.9 μg/m³	260 μg/m³
CMA6a	WDII PRE Site Office	207.1 μg/m ³	260 μg/m³

Table 2 Action and Limit Levels for 1-hour TSP

ID	Location	Limit Level	
CMA5b	Pedestrian Plaza	339.7 μg/m³	500 μg/m³
CMA6a	WDII PRE Site Office	333 μg/m³	500 μg/m³

Table 3Action and Limit Levels for Construction Noise(0700 – 1900 hrs of normal weekdays)

ID	Location	Action Level	Limit Level
M1a	Footbridge at EX-Wanchai Harbour Road Sports Centre	When one documented complaint is received	75 dB(A)

APPENDIX E

Not Used

Appendix E - Not Used

APPENDIX F

EM&A Monitoring Schedules

Shatin to Central Link 1123 - CEDD Entrusted Work Road P2 & other roads and Slip Road 3 Impact Monitoring Schedule for May 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-May	2-May	3-May	4-May	5-May	6-May	7-May
			Noise	24-hour TSP	1-hour TSP	
8-May	9-May	10-May	11-May	12-May	13-May	14-May
		Noise	24-hour TSP	1-hour TSP		
15-May	16-May	17-May	18-May	19-May	20-May	21-May
	Noise	24-hour TSP	1-hour TSP			
22-May	23-May	24-May	25-May	26-May	27-May	28-May
	24-hour TSP	1-hour TSP	Noise			24-hour TSP
29-May	30-May	31-May				
	1-hour TSP	Noise				

Footbridge for Ex-Harbour Road Sports Centre

Air Quality Monitoring Station

CMA5b Pedestrian Plaza WDII PRE site office CMA6a

Monitoring Frequency

Noise Monitoring Station

Monitoring Frequency

24-hr TSP Once every 6 days 3 times every 6 days (as required in of complaints) 1-hr TSP

Once per week

M1a

Shatin to Central Link 1123 - CEDD Entrusted Work Road P2 & other roads and Slip Road 3 Impact Monitoring Schedule for June 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
			1-Jun 2-Jun		3-Jun	4-Jun	
				24-hour TSP		1-hour TSP	
5-Jun	6-Jun	7-Jun	8-Jun	9-Jun	10-Jun	11-Jun	
			24-hour TSP	1-hour TSP			
12-Jun	13-Jun	14-Jun	15-Jun	16-Jun	17-Jun	18-Jun	
		24-hour TSP	1-hour TSP	Noise			
19-Jun	20-Jun	21-Jun	22-Jun	23-Jun	24-Jun	25-Jun	
	24-hour TSP	1-hour TSP	Noise			24-hour TSP	
26-Jun	27-Jun	28-Jun	29-Jun	30-Jun			
	1-hour TSP	Noise		24-hour TSP			

Footbridge for Ex-Harbour Road Sports Centre

Air Quality Monitoring Station

CMA5b Pedestrian Plaza CMA6a WDII PRE site office

Monitoring Frequency

Monitoring Frequency

Noise Monitoring Station

24-hr TSP Once every 6 days1-hr TSP 3 times every 6 days (as required in of complaints)

Once per week

M1a

Shatin to Central Link 1123 - CEDD Entrusted Work Road P2 & other roads and Slip Road 3 Impact Monitoring Schedule for July 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Jul	2-Jul
						1-hour TSP*
3-Jul	4-Jul	5-Jul	6-Jul	7-Jul	8-Jul	9-Jul
		Noise	24-hour TSP	1-hour TSP		
10-Jul	11-Jul	12-Jul	13-Jul	14-Jul	15-Jul	16-Jul
		24-hour TSP	1-hour TSP	Noise		
17-Jul	18-Jul	19-Jul	20-Jul	21-Jul	22-Jul	23-Jul
	24-hour TSP	1-hour TSP		Noise		24-hour TSP
24-Jul	25-Jul	26-Jul	27-Jul	28-Jul	29-Jul	30-Jul
	1-hour TSP	Noise			24-hour TSP	1-hour TSP
31-Jul						

* Monitoring was cancelled due to Typhoon Signal No.8 was hoisted on the day.

Air Quality Monitoring Station

Noise Monitoring Station

CMA5b Pedestrian Plaza CMA6a WDII PRE site office M1a Footbridge for Ex-Harbour Road Sports Centre

Monitoring Frequency

24-hr TSP Once every 6 days 1-hr TSP 3 times every 6 days (as required in of complaints)

Monitoring Frequency

Once per week

APPENDIX G

Air Quality Monitoring Results and their Graphical Presentations

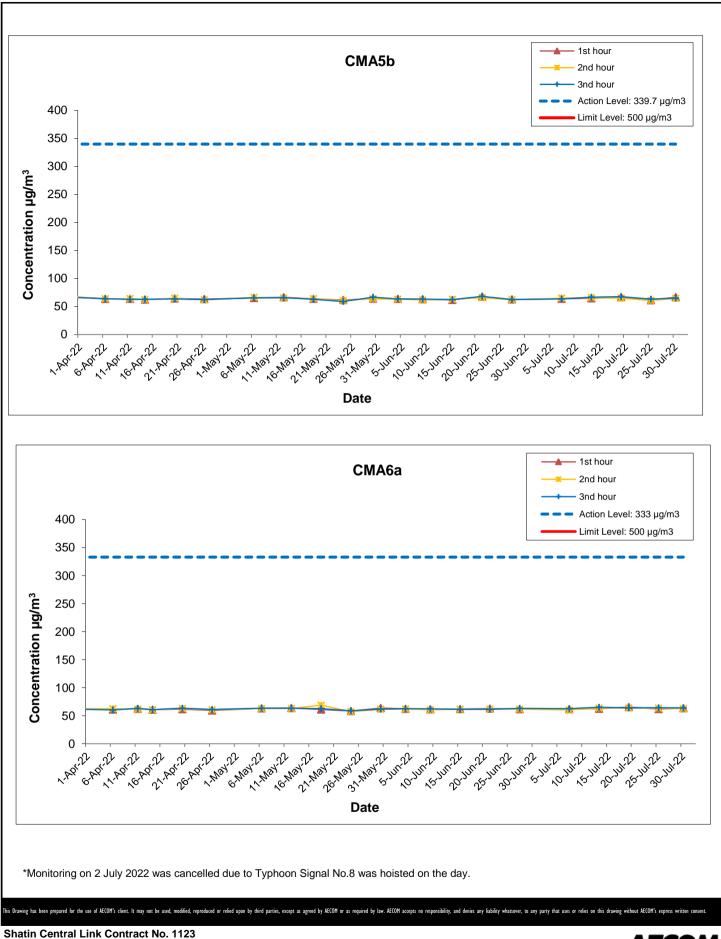
Appendix G Air Quality Monitoring Results

1-hour TSP Monitoring Results at Station CMA5b (Pedestrian Plaza)

	Start		1st Hour	2nd Hour	3rd Hour
	Time	Weather	Conc.	Conc.	Conc.
Date	(hh:mm)	Condition	(µg/m³)	(µg/m ³)	(µg/m ³)
06-May-22	10:45	Fine	65.2	66.3	65.4
12-May-22	13:20	Rainy	66.3	65.2	65.7
18-May-22	14:00	Sunny	63.6	64.1	62.9
24-May-22	14:15	Cloudy	61.5	60.3	58.8
30-May-22	13:50	Sunny	64.0	63.9	66.7
04-Jun-22	11:20	Fine	63.3	63.0	63.5
09-Jun-22	13:45	Cloudy	62.9	61.7	63.1
15-Jun-22	11:00	Fine	61.7	62.6	62.3
21-Jun-22	13:45	Sunny	67.3	65.8	68.1
27-Jun-22	10:45	Fine	62.7	62.1	62.3
02-Jul-22		Monitoring was canc	elled due to Typhoon	Signal No.8 was hois	sted on the day.
07-Jul-22	14:00	Sunny	63.8	64.9	63.3
13-Jul-22	13:25	Sunny	64.6	65.7	66.7
19-Jul-22	13:00	Sunny	66.5	64.9	67.3
25-Jul-22	13:10	Sunny	61.1	60.6	63.1
30-Jul-22	13:40	Rainy	66.7	64.2	64.8
				Average	64.0
				Min	58.8
				Max	68.1

1-hour TSP Monitoring Results at Station CMA6a (WDII PRE Site Office)

1-nour 13F Monitoring Results at Station CMAda (WDIFRE Site Office)									
	Start		1st Hour	2nd Hour	3rd Hour				
	Time	Weather	Conc.	Conc.	Conc.				
Date	(hh:mm)	Condition	(µg/m³)	(µg/m ³)	(µg/m ³)				
02-Jul-22	11:00	0:00	63.1	62.9	63.4				
07-Jul-22	13:35	Sunny	63.7	62.9	63.4				
13-Jul-22	13:50	Sunny	61.1	68.9	62.4				
19-Jul-22	14:00	Sunny	58.1	57.2	58.8				
25-Jul-22	14:05	Sunny	63.7	61.4	61.8				
02-Jul-22	11;40	0:00	62.3	61.9	62.5				
07-Jul-22	13:30	Sunny	61.4	60.4	62.2				
13-Jul-22	10:45	Sunny	61.9	61.5	61.4				
19-Jul-22	13:35	Sunny	62.7	61.8	61.4				
25-Jul-22	11:10	Sunny	61.6	61.7	63.1				
02-Jul-22		Monitoring was cance	elled due to Typhoon	Signal No.8 was hois	sted on the day.				
07-Jul-22	13:45	Sunny	61.7	60.3	62.6				
13-Jul-22	13:15	Sunny	62.4	63.8	65.1				
19-Jul-22	13:10	Sunny	65.3	63.8	64.0				
25-Jul-22	13:20	Sunny	62.0	63.3	64.1				
30-Jul-22	13:55	Rainy	63.3	62.5	63.9				
				Average	62.4				
				Min	57.2				
				Max	68.9				



Entrusted Work for Road P2 & other roads and Slip Road 3

AECOM

Graphical Presentation of Impact 1-hr TSP Monitoring Results

Appendix G Air Quality Monitoring Results

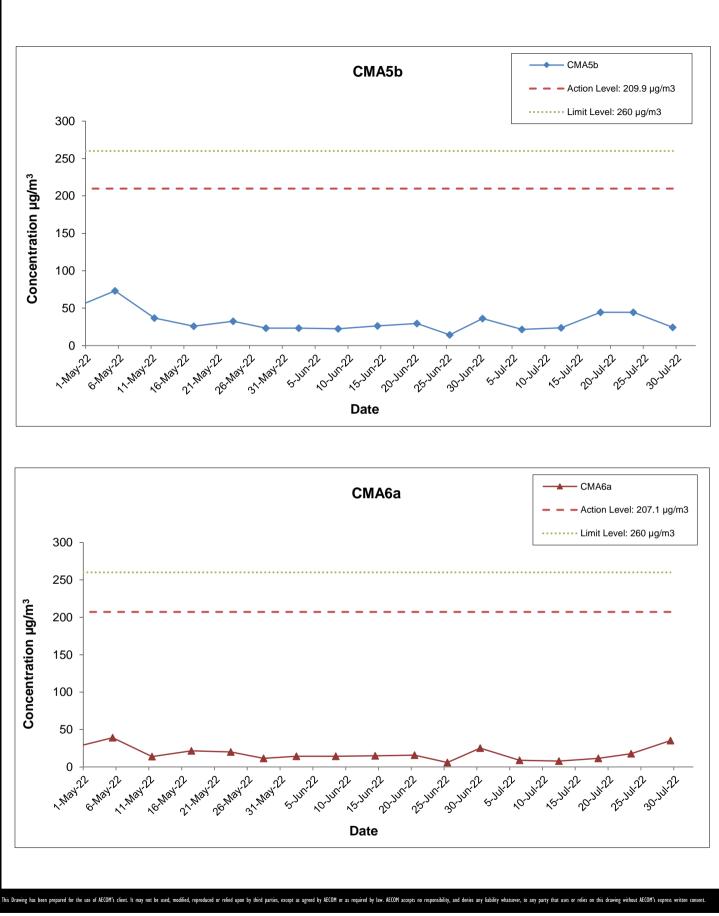
24-hour TSP Monitoring Results at Station CMA5b (Pedestrain Plaza)

Star	t	End		Weather	Air	Atmospheric	Flow Rat	te (m ³ /min.)	Av. flow	Total vol.	Filter W	/eight (g)	Particulate	Elaps	e Time	Sampling	Conc.
Date	Time	Date	Time	Condition	Temp. (°C)	Pressure (hPa)	Initial	Final	(m ³ /min)	(m ³)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m³)
5-May-22	0:00	6-May-22	0:00	Sunny	25.2	1012.6	1.34	1.34	1.34	1925.3	2.6878	2.8287	0.1409	28391.07	28415.07	24.00	73.2
11-May-22	0:00	12-May-22	0:00	Rainy	25.0	1007.8	1.34	1.34	1.34	1925.3	2.6589	2.7296	0.0707	28415.07	28439.07	24.00	36.7
17-May-22	0:00	18-May-22	0:00	Cloudy	22.4	1013.6	1.34	1.34	1.34	1925.3	2.6652	2.7150	0.0498	28439.07	28463.07	24.00	25.9
23-May-22	0:00	24-May-22	0:00	Fine	24.0	1007.6	1.34	1.34	1.34	1925.3	2.6824	2.7452	0.0628	28463.07	28487.07	24.00	32.6
28-May-22	0:00	29-May-22	0:00	Fine	28.7	1005.5	1.34	1.34	1.34	1925.3	2.6703	2.7150	0.0447	28487.07	28511.07	24.00	23.2
2-Jun-22	0:00	3-Jun-22	0:00	Cloudy	28.8	1006.2	1.34	1.34	1.34	1925.3	2.6599	2.7047	0.0448	28535.07	28559.07	24.00	23.3
8-Jun-22	0:00	9-Jun-22	0:00	Rainy	25.8	1005.6	1.34	1.34	1.34	1925.3	2.6779	2.7211	0.0432	28559.07	28583.07	24.00	22.4
14-Jun-22	0:00	15-Jun-22	0:00	Sunny	27.4	1007.0	1.34	1.34	1.34	1925.3	2.6461	2.6969	0.0508	28583.07	28607.07	24.00	26.4
20-Jun-22	0:00	21-Jun-22	0:00	Sunny	29.2	1004.8	1.34	1.34	1.34	1925.3	2.6520	2.7087	0.0567	28607.07	28631.07	24.00	29.5
25-Jun-22	0:00	26-Jun-22	0:00	Sunny	29.6	1007.8	1.33	1.33	1.33	1921.0	2.6850	2.7124	0.0274	28631.07	28655.07	24.00	14.3
30-Jun-22	0:00	1-Jul-22	0:00	Rainy	27.5	1002.7	1.33	1.33	1.33	1921.0	2.6786	2.7481	0.0695	28655.07	28679.07	24.00	36.2
6-Jul-22	0:00	7-Jul-22	0:00	Sunny	28.8	1005.7	1.33	1.33	1.33	1916.6	2.6711	2.7125	0.0414	28679.07	28703.07	24.00	21.6
12-Jul-22	0:00	13-Jul-22	0:00	Sunny	31.1	1006.9	1.33	1.33	1.33	1916.6	2.6719	2.7176	0.0457	28703.07	28727.07	24.00	23.8
18-Jul-22	0:00	19-Jul-22	0:00	Sunny	30.4	1004.9	1.33	1.33	1.33	1916.6	2.7671	2.8526	0.0855	28727.07	28751.07	24.00	44.6
23-Jul-22	0:00	24-Jul-22	0:00	Sunny	31.4	1008.7	1.33	1.33	1.33	1916.6	2.7853	2.8707	0.0854	28751.07	28775.07	24.00	44.6
29-Jul-22	0:00	30-Jul-22	0:00	Sunny	31.7	1004.7	1.33	1.33	1.33	1921.0	2.7765	2.8234	0.0469	28775.07	28799.07	24.00	24.4
																Average	31.4
																Minimum	14.3

Maximum 73.2

24 hour TSB Monitoring	Booulto of Station CMAG	
24-nour 1 SP wonitoring	Results at Station CMA6a	(WDII PRE Site office)

DateTimeDateTimeConditionTenspectivePressure (the)InitialFinal(m ³ min)(mina)InitialFinalVertityInitialFinalVertityInitialFinalVertityInitialFinalVertityInitialFinalVertityInitialFinalVertityInitialFinalVertityInitialVertity	Start		Enc	I	Weather	Air	Atmospheric	Flow Rat	e (m ³ /min.)	Av. flow	Total vol.	Filter W	eight (g)	Particulate	Elaps	se Time	Sampling	Conc.
11-May-22 0:00 12-May-22 0:00 Rainy 25.0 1007.8 1.33 1.33 1.33 1916.6 2.6261 2.6526 0.0265 11160.37 11184.37 24.00 17-May-22 0:00 18-May-22 0:00 Cloudy 22.4 1013.6 1.31 1.31 1.33 1916.6 2.6261 2.6526 0.0265 11160.37 1184.37 24.00 23-May-22 0:00 24-May-22 0:00 Fine 24.0 1007.6 1.33 1.33 1916.6 2.6562 2.6947 0.0385 11208.37 11282.37 24.00 2-Jun-22 0:00 3-Jun-22 0:00 Fine 28.7 1005.5 1.33 1.33 1.33 1916.6 2.6814 2.7085 0.0271 11266.37 24.00 24.00 24.00 24.00 24.00 14.33 1.33 1.33 1916.6 2.6814 2.7085 0.0271 1128.37 1428.37 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00	Date	Time	Date	Time	Condition	Temp. (°C)	Pressure (hPa)	Initial	Final	(m³/min)	(m ³)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m³)
Theory 2 0:00 18-May-22 0:00 Cloudy 22.4 1013.6 1.31 1.31 1.31 1.890.7 2.6795 2.7203 0.0408 11184.37 11208.37 24.00 23-May-22 0:00 24-May-22 0:00 Fine 24.0 1007.6 1.33 1.33 1.33 1916.6 2.6562 2.6947 0.0385 11208.37 1223.37 24.00 28-May-22 0:00 29-May-22 0:00 Fine 28.7 1005.5 1.33 1.33 133 1916.6 2.6694 0.0218 11232.37 128.37 24.00 2-Jun-22 0:00 3-Jun-22 0:00 Rainy 25.8 1005.6 1.33 1.33 1.33 1916.6 2.6618 2.6892 0.0274 1128.37 128.37 24.00 14-Jun-22 0:00 Sunny 27.4 1007.0 1.33 1.33 133 1916.6 2.6618 2.6892 0.0274 1130.37 24.00 25-Jun-22 0:00	May-22	0:00	6-May-22	0:00	Sunny	25.2	1012.6	1.33	1.33	1.33	1916.6	2.6816	2.7564	0.0748	11136.37	11160.37	24.00	39.0
23-May-22 0:00 24-May-22 0:00 Fine 24.0 1007.6 1.33 1.33 1916.6 2.6562 2.6947 0.0385 11208.37 11232.37 24.00 28-May-22 0:00 29-May-22 0:00 Fine 28.7 1005.5 1.33 1.33 1916.6 2.6476 2.6694 0.0218 11232.37 24.00 2-Jun-22 0:00 3-Jun-22 0:00 Cloudy 28.8 1006.2 1.33 1.33 1916.6 2.6476 2.6694 0.0218 11232.37 24.00 8-Jun-22 0:00 9-Jun-22 0:00 Rainy 25.8 1005.6 1.33 1.33 1916.6 2.6618 2.6892 0.0274 11280.37 11304.37 24.00 14-Jun-22 0:00 15-Jun-22 0:00 Sunny 27.4 1007.0 1.33 1.33 1916.6 2.6618 2.6770 0.012 11326.37 24.00 25-Jun-22 0:00 Sunny 29.2 1004.8 </td <td>-May-22</td> <td>0:00</td> <td>12-May-22</td> <td>0:00</td> <td>Rainy</td> <td>25.0</td> <td>1007.8</td> <td>1.33</td> <td>1.33</td> <td>1.33</td> <td>1916.6</td> <td>2.6261</td> <td>2.6526</td> <td>0.0265</td> <td>11160.37</td> <td>11184.37</td> <td>24.00</td> <td>13.8</td>	-May-22	0:00	12-May-22	0:00	Rainy	25.0	1007.8	1.33	1.33	1.33	1916.6	2.6261	2.6526	0.0265	11160.37	11184.37	24.00	13.8
28-May-22 0:00 29-May-22 0:00 Fine 28.7 1005.5 1.33 1.33 1.916.6 2.6476 2.6694 0.0218 11232.37 1126.37 24.00 2-Jun-22 0:00 3-Jun-22 0:00 Cloudy 28.8 1006.2 1.33 1.33 1916.6 2.6814 2.7085 0.0271 1126.37 11280.37 24.00 8-Jun-22 0:00 9-Jun-22 0:00 Rainy 25.8 1005.6 1.33 1.33 1916.6 2.6814 2.6892 0.0274 11280.37 11304.37 24.00 14-Jun-22 0:00 15-Jun-22 0:00 Sunny 27.4 1007.0 1.33 1.33 1916.6 2.6825 2.7112 0.0287 11304.37 11328.37 24.00 20-Jun-22 0:00 Sunny 29.2 1004.8 1.33 1.33 1916.6 2.6825 2.7102 0.0287 11304.37 11328.57 24.00 20-Jun-22 0:00 Sunny	-May-22	0:00	18-May-22	0:00	Cloudy	22.4	1013.6	1.31	1.31	1.31	1890.7	2.6795	2.7203	0.0408	11184.37	11208.37	24.00	21.6
2-Jun-22 0:00 3-Jun-22 0:00 Cloudy 28.8 1006.2 1.33 1.33 1.916.6 2.6814 2.7085 0.0271 11256.37 11280.37 24.00 8-Jun-22 0:00 9-Jun-22 0:00 Rainy 25.8 1005.6 1.33 1.33 1916.6 2.6814 2.7085 0.0274 11280.37 11304.37 24.00 14-Jun-22 0:00 15-Jun-22 0:00 Sunny 27.4 1007.0 1.33 1.33 1916.6 2.6818 2.6925 2.7112 0.0287 11304.37 128.37 24.00 20-Jun-22 0:00 Sunny 29.2 1004.8 1.33 1.33 1916.6 2.6825 2.7112 0.0287 1132.57 1132.57 24.00 25-Jun-22 0:00 Sunny 29.2 1004.8 1.33 1.33 1916.6 2.6658 2.6770 0.0112 11325.57 24.00 30-Jun-22 0:00 1-Jul-22 0:00 Rainy 27.5	-May-22	0:00	24-May-22	0:00	Fine	24.0	1007.6	1.33	1.33	1.33	1916.6	2.6562	2.6947	0.0385	11208.37	11232.37	24.00	20.1
8-Jun-22 0:00 9-Jun-22 0:00 Rainy 25.8 1005.6 1.33 1.33 1.916.6 2.6618 2.6892 0.0274 11280.37 11304.37 24.00 14-Jun-22 0:00 15-Jun-22 0:00 Sunny 27.4 1007.0 1.33 1.33 1916.6 2.6818 2.6925 2.7112 0.0287 11304.37 11328.37 24.00 20-Jun-22 0:00 21-Jun-22 0:00 Sunny 29.2 1004.8 1.33 1.33 1916.6 2.6736 2.7036 0.0300 11328.57 1135.57 24.00 25-Jun-22 0:00 26-Jun-22 0:00 Sunny 29.6 1007.8 1.33 1.33 1916.6 2.6658 2.6770 0.0112 1135.57 1136.57 24.00 30-Jun-22 0:00 Rainy 27.5 1002.7 1.33 1.33 133 1916.6 2.6658 2.670 0.0112 1135.57 11400.57 24.00 6-Jul-22 0:00 7-Jul-22 0:00 Sunny 28.8 1005.7 1.33 1.33	-May-22	0:00	29-May-22	0:00	Fine	28.7	1005.5	1.33	1.33	1.33	1916.6	2.6476	2.6694	0.0218	11232.37	11256.37	24.00	11.4
14-Jun-22 0:00 15-Jun-22 0:00 Sunny 27.4 1007.0 1.33 1.33 1.33 1916.6 2.6825 2.7112 0.0287 11304.37 11328.37 24.00 20-Jun-22 0:00 21-Jun-22 0:00 Sunny 29.2 1004.8 1.33 1.33 1.33 1916.6 2.6825 2.7112 0.0287 11304.37 11328.37 24.00 25-Jun-22 0:00 26-Jun-22 0:00 Sunny 29.2 1004.8 1.33 1.33 1916.6 2.6736 2.7036 0.0300 11328.57 1135.57 24.00 30-Jun-22 0:00 Sunny 29.6 1007.8 1.33 1.33 1916.6 2.6658 2.6770 0.0112 1135.57 11376.57 24.00 30-Jun-22 0:00 Rainy 27.5 1002.7 1.33 1.33 1.33 1916.6 2.6658 2.6710 0.0112 1136.57 24.00 6-Jul-22 0:00 Sunny 28.8 1005.7 1.33 1.33 1916.6 2.6652 2.6805 0.0170	Jun-22	0:00	3-Jun-22	0:00	Cloudy	28.8	1006.2	1.33	1.33	1.33	1916.6	2.6814	2.7085	0.0271	11256.37	11280.37	24.00	14.1
Q-Jun-22 0:00 21-Jun-22 0:00 Sunny 29.2 1004.8 1.33 1.33 1.916.6 2.6736 2.7036 0.0300 11328.57 11352.57 24.00 25-Jun-22 0:00 26-Jun-22 0:00 Sunny 29.6 1007.8 1.33 1.33 1916.6 2.6658 2.6770 0.0112 11352.57 11376.57 24.00 30-Jun-22 0:00 1-Jul-22 0:00 Rainy 27.5 1002.7 1.33 1.33 1916.6 2.6658 2.6770 0.0112 1135.57 11400.57 24.00 6-Jul-22 0:00 7-Jul-22 0:00 Sunny 28.8 1005.7 1.33 1.33 1916.6 2.6658 2.6805 0.0170 1140.57 11424.57 24.00 12-Jul-22 0:00 13-Jul-22 0:00 Sunny 30.4 1006.9 1.33 1.33 1916.6 2.6652 2.6800 0.0148 11424.57 1148.57 24.00 18-Jul-22 0:00	Jun-22	0:00	9-Jun-22	0:00	Rainy	25.8	1005.6	1.33	1.33	1.33	1916.6	2.6618	2.6892	0.0274	11280.37	11304.37	24.00	14.3
25-Jun-22 0:00 26-Jun-22 0:00 Sunny 29.6 1007.8 1.33 1.33 1.916.6 2.6658 2.6770 0.0112 11352.57 11376.57 24.00 30-Jun-22 0:00 1-Jul-22 0:00 Rainy 27.5 1002.7 1.33 1.33 1.33 1916.6 2.6658 2.6770 0.0112 1135.57 11400.57 24.00 6-Jul-22 0:00 7-Jul-22 0:00 Sunny 28.8 1005.7 1.33 1.33 1916.6 2.6658 2.6805 0.0170 11400.57 11424.57 24.00 12-Jul-22 0:00 13-Jul-22 0:00 Sunny 28.8 1005.7 1.33 1.33 1916.6 2.6658 2.6805 0.0170 1140.57 11424.57 24.00 12-Jul-22 0:00 13-Jul-22 0:00 Sunny 31.1 1006.9 1.33 1.33 1916.6 2.6652 2.6800 0.0148 11424.57 11448.57 24.00 24.00 1145.57 24.00 1145.57 11448.57 11448.57 11448.57 11448.57	-Jun-22	0:00	15-Jun-22	0:00	Sunny	27.4	1007.0	1.33	1.33	1.33	1916.6	2.6825	2.7112	0.0287	11304.37	11328.37	24.00	15.0
30-Jun-22 0:00 1-Jul-22 0:00 Rainy 27.5 1002.7 1.33 1.33 1916.6 2.6620 2.7102 0.0482 11376.57 11400.57 24.00 6-Jul-22 0:00 7-Jul-22 0:00 Sunny 28.8 1005.7 1.33 1.33 1916.6 2.6635 2.6805 0.0170 11400.57 11424.57 24.00 12-Jul-22 0:00 13-Jul-22 0:00 Sunny 31.1 1006.9 1.33 1.33 1916.6 2.6652 2.6800 0.0148 11424.57 11448.57 24.00 18-Jul-22 0:00 19-Jul-22 0:00 Sunny 30.4 1004.9 1.33 1.33 1916.6 2.6652 2.6800 0.0148 11424.57 11448.57 24.00 18-Jul-22 0:00 19-Jul-22 0:00 Sunny 30.4 1004.9 1.33 1.33 1916.6 2.7633 2.7851 0.0218 11448.57 11472.57 24.00 23-Jul-22 0:00 24-Jul-22 0:00 Sunny 31.4 1008.7 1.33	-Jun-22	0:00	21-Jun-22	0:00	Sunny	29.2	1004.8	1.33	1.33	1.33	1916.6	2.6736	2.7036	0.0300	11328.57	11352.57	24.00	15.7
6-Jul-22 0:00 7-Jul-22 0:00 Sunny 28.8 1005.7 1.33 1.33 1.916.6 2.6635 2.6805 0.0170 1140.57 1142.57 24.00 12-Jul-22 0:00 13-Jul-22 0:00 Sunny 31.1 1006.9 1.33 1.33 1.33 1916.6 2.6652 2.6800 0.0170 1140.57 1144.57 24.00 18-Jul-22 0:00 19-Jul-22 0:00 Sunny 30.4 1004.9 1.33 1.33 1916.6 2.7633 2.7851 0.0218 1144.57 1144.57 24.00 23-Jul-22 0:00 24-Jul-22 0:00 Sunny 31.4 1008.7 1.33 1.33 1916.6 2.7633 2.7851 0.0218 1144.57 1149.57 24.00 23-Jul-22 0:00 24-Jul-22 0:00 Sunny 31.4 1008.7 1.33 1.33 1916.6 2.7637 2.800 0.0339 11472.57 24.00 29-Jul-22 0:00 30-Jul-22 0:00 Sunny 31.7 1004.7 1.33 1.33	Jun-22	0:00	26-Jun-22	0:00	Sunny	29.6	1007.8	1.33	1.33	1.33	1916.6	2.6658	2.6770	0.0112	11352.57	11376.57	24.00	5.8
12-Jul-22 0:00 13-Jul-22 0:00 Sunny 31.1 1006.9 1.33 1.33 1.916.6 2.6652 2.6800 0.0148 1142.57 11448.57 24.00 18-Jul-22 0:00 19-Jul-22 0:00 Sunny 30.4 1004.9 1.33 1.33 1.33 1916.6 2.7633 2.7851 0.0218 11448.57 1147.57 24.00 23-Jul-22 0:00 24-Jul-22 0:00 Sunny 31.4 1008.7 1.33 1.33 1916.6 2.7751 2.8090 0.0339 11472.57 11496.57 24.00 29-Jul-22 0:00 30-Jul-22 0:00 Sunny 31.7 1004.7 1.33 1.33 1916.6 2.7637 2.8310 0.0673 11496.57 1142.57 24.00 29-Jul-22 0:00 30-Jul-22 0:00 Sunny 31.7 1004.7 1.33 1.33 1916.6 2.7637 2.8310 0.0673 11496.57 1142.57 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.00 24.0	-Jun-22	0:00	1-Jul-22	0:00	Rainy	27.5	1002.7	1.33	1.33	1.33	1916.6	2.6620	2.7102	0.0482	11376.57	11400.57	24.00	25.1
18-Jul-22 0:00 19-Jul-22 0:00 Sunny 30.4 1004.9 1.33 1.33 1.916.6 2.7633 2.7851 0.0218 11448.57 11472.57 24.00 23-Jul-22 0:00 24-Jul-22 0:00 Sunny 31.4 1008.7 1.33 1.33 1916.6 2.7633 2.7851 0.0218 11448.57 11472.57 24.00 23-Jul-22 0:00 30-Jul-22 0:00 Sunny 31.7 1004.7 1.33 1.33 1916.6 2.7637 2.8310 0.0673 11496.57 11520.57 24.00 29-Jul-22 0:00 30-Jul-22 0:00 Sunny 31.7 1004.7 1.33 1.33 1916.6 2.7637 2.8310 0.0673 11496.57 11520.57 24.00	-Jul-22	0:00	7-Jul-22	0:00	Sunny	28.8	1005.7	1.33	1.33	1.33	1916.6	2.6635	2.6805	0.0170	11400.57	11424.57	24.00	8.9
23-Jul-22 0:00 24-Jul-22 0:00 Sunny 31.4 1008.7 1.33 1.33 1916.6 2.7751 2.8090 0.0339 11472.57 11496.57 24.00 29-Jul-22 0:00 30-Jul-22 0:00 Sunny 31.7 1004.7 1.33 1.33 1916.6 2.7657 2.8090 0.0339 11472.57 11496.57 24.00	2-Jul-22	0:00	13-Jul-22	0:00	Sunny	31.1	1006.9	1.33	1.33	1.33	1916.6	2.6652	2.6800	0.0148	11424.57	11448.57	24.00	7.7
29-Jul-22 0:00 30-Jul-22 0:00 Sunny 31.7 1004.7 1.33 1.33 1.33 1916.6 2.7637 2.8310 0.0673 11496.57 11520.57 24.00	3-Jul-22	0:00	19-Jul-22	0:00	Sunny	30.4	1004.9	1.33	1.33	1.33	1916.6	2.7633	2.7851	0.0218	11448.57	11472.57	24.00	11.4
	3-Jul-22	0:00	24-Jul-22	0:00	Sunny	31.4	1008.7	1.33	1.33	1.33	1916.6	2.7751	2.8090	0.0339	11472.57	11496.57	24.00	17.7
Average	9-Jul-22	0:00	30-Jul-22	0:00	Sunny	31.7	1004.7	1.33	1.33	1.33	1916.6	2.7637	2.8310	0.0673	11496.57	11520.57	24.00	35.1
Holage																	Average	17.3



Shatin Central Link Contract No. 1123

Entrusted Work for Road P2 & other roads and Slip Road 3

Graphical Presentation of Impact 24-hr TSP Monitoring Results

AECOM

APPENDIX H

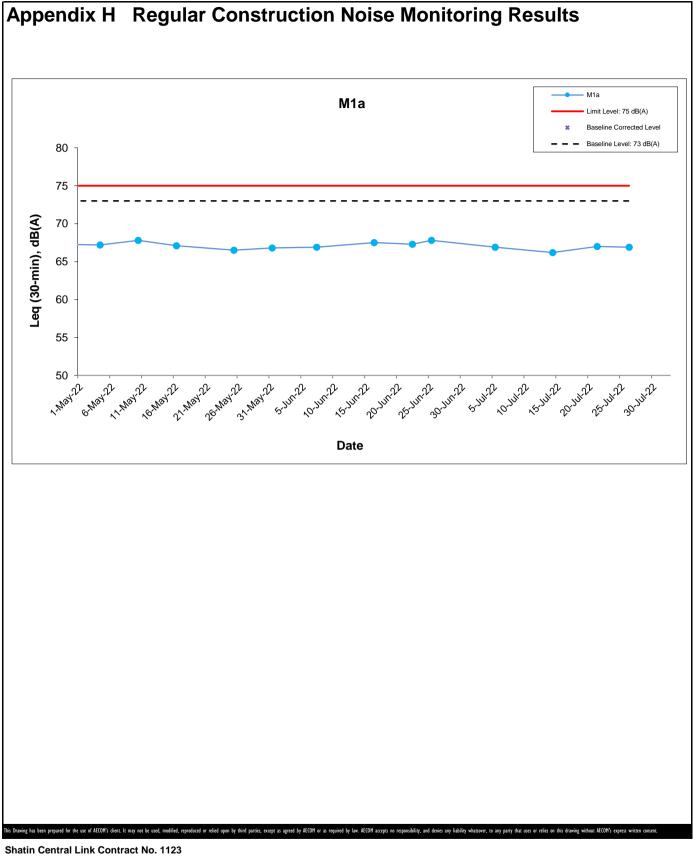
Noise Monitoring Results and their Graphical Presentations

Appendix H Regular Construction Noise Monitoring Results

Date	Weather	Nois	e Level foi	⁻ 30-min, d	B(A) ⁺	Baseline Corrected	Baseline Noise	Limit Level,	Exceedance
Duto	Condition		L90	L10	Leq	Level, dB(A)	Level, dB(A)	dB(A)	(Y/N)
4-May-22	Sunny	11:20	65.0	68.6	67.2	<baseline< td=""><td>73.0</td><td>75</td><td>N</td></baseline<>	73.0	75	N
10-May-22	Sunny	10:50	65.0	69.0	67.8	<baseline< td=""><td>73.0</td><td>75</td><td>Ν</td></baseline<>	73.0	75	Ν
16-May-22	Fine	13:55	65.0	68.8	67.1	<baseline< td=""><td>73.0</td><td>75</td><td>Ν</td></baseline<>	73.0	75	Ν
25-May-22	Fine	10:40	64.6	68.4	66.5	<baseline< td=""><td>73.0</td><td>75</td><td>Ν</td></baseline<>	73.0	75	Ν
31-May-22	Fine	13:10	64.5	67.9	66.8	<baseline< td=""><td>73.0</td><td>75</td><td>N</td></baseline<>	73.0	75	N
7-Jun-22	Cloudy	11:05	64.5	68.7	66.9	<baseline< td=""><td>73.0</td><td>75</td><td>N</td></baseline<>	73.0	75	N
16-Jun-22	Fine	10:35	64.8	69.3	67.5	<baseline< td=""><td>73.0</td><td>75</td><td>N</td></baseline<>	73.0	75	N
22-Jun-22	Sunny	10:50	64.8	68.7	67.3	<baseline< td=""><td>73.0</td><td>75</td><td>N</td></baseline<>	73.0	75	N
25-Jun-22	Sunny	15:05	65.3	69.0	67.8	<baseline< td=""><td>73.0</td><td>75</td><td>Ν</td></baseline<>	73.0	75	Ν
5-Jul-22	Sunny	11:30	64.8	67.4	66.9	<baseline< td=""><td>73.0</td><td>75</td><td>N</td></baseline<>	73.0	75	N
14-Jul-22	Sunny	10:35	64.0	67.4	66.2	<baseline< td=""><td>73.0</td><td>75</td><td>N</td></baseline<>	73.0	75	N
21-Jul-22	Sunny	13:30	64.0	67.9	67.0	<baseline< td=""><td>73.0</td><td>75</td><td>N</td></baseline<>	73.0	75	N
26-Jul-22	Sunny	10:50	64.2	68.5	66.9	<baseline< td=""><td>73.0</td><td>75</td><td>N</td></baseline<>	73.0	75	N

Daytime Noise Monitoring Results at Station M1a (Footbridge for Ex-Harbour Road Sport Centre)

⁺ - Façade measurement



Entrusted Work for Road P2 & other roads and Slip Road 3

Graphical Presentation of Impact Noise Monitoring Results **APPENDIX I**

Event Action Plan

Appendix I Event Action Plan

Event / Action Plan for Construction Dust Monitoring

EVENT		ACTION									
EVENI	ET	IEC	ER	Contractor							
ACTION LEVEL	•		•	·							
Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily. 	 Check monitoring data submitted by ET; Check Contractor's working method. 	1. Notify Contractor.	 Identify source(s), investigate the causes of exceedance and propose remedial measures; Implement remedial measures; Amend working methods agreed with the ER as appropriate. 							
Exceedance for two or more consecutive samples	 Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring. 	 Checking monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Submit proposals for remedial to ER within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. 							

	ACTION											
EVENT	ET	IEC	ER	Contractor								
LIMIT LEVEL												
Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform ER, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	 Checking monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. 								
Exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated. 								

Appendix I Event Action Plan

Appendix I Event Action Plan

Event and Action Plan for Construction Noise Monitoring

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

APPENDIX J

Cumulative Statistics of Exceedances, Complaints, Notification of Summons and Successful Prosecutions

Appendix H

Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

	Date Received	Subject	Status	Total no. received in this month	Total no. received since project commencement
Environmental complaints	-	-	-	0	0
Notification of summons	-	-	-	0	0
Successful Prosecutions	-	-	-	0	0

APPENDIX K

Waste Flow Table

MONTHLY SUMMARY WASTE FLOW TABLE

Contract No.:MTR SCL 1123 - Exhibition Station and Western Approach Tunnel (Road P2 Works) Reporting Month: July 2022

Month	Actu	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in Other Projects	as Public Fill	Imported Fill	Metals	Paper / Cardboard Packaging	Plastics	Chemical Waste	Others, e.g. general refuse	Type 1	Type 2
	(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)	(in '000m ³)	(in '000m ³)
Jan	0.098	0.000	0.000	0.000	0.098	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Feb	0.843	0.000	0.000	0.000	0.843	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Mar	1.349	0.000	0.000	0.000	1.349	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Apr	0.544	0.000	0.000	0.000	0.544	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
May	0.309	0.000	0.000	0.000	0.309	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Jun	0.380	0.000	0.000	0.000	0.380	0.000	0.000	0.000	0.000	0.000	37.090	0.000	0.000
Sub-total	3.522	0.000	0.000	0.000	3.522	0.000	0.000	0.000	0.000	0.000	37.090	0.000	0.000
July	1.137	0.000	0.000	0.000	1.137	0.000	0.000	0.000	0.000	0.000	0.098	0.000	0.000
August													
September													
October													
November													
December													
Total	4.660	0.000	0.000	0.000	4.660	0.000	0.000	0.000	0.000	0.000	37.188	0.000	0.000

Monthly Summary Waste Flow Table for 2022

Comments:

1) Assumption: The densities of Rock, Soil, Mixed Rock and Soil, and Regular Spoil are 2.0 ton/m³; the density of general refuse is 1.0 ton/m³; the density of waste oil is 1.0 kg/L.

2) The cut-off date of waste amount in July is 31/7/2022 for Public Fill Facilities and Landfill.

3) The amounts of waste in July is 197.03 ton for Landfill and 2274.75 tons for Public Fill.

4) The amount of import fill in July is 0 ton, for cut-off date as 31/7/2022.

5) The amount of metal waste generated in July is 0 kg, for cut-off date as 31/7/2022.

6) The amount of paper waste generated in July is 0 kg, for cut-off date as 31/7/2022.

7) The amount of plastic waste generated in July is 0 kg, for cut-off date as 31/7/2022.