


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 Jan to Apr 2021]

(June 2021)

Verified by:  Claudine LEE

Position: Independent Environmental Checker

Date: 10 June 2021

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Verified by: FUNG Yiu Wah 

Position: Environmental Team Leader

Date: 10 June 2021

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**

-January 2021 to April 2021-

[June 2021]

	Name	Signature
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Version: 0

Date: 9 June 2021

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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 25 January and 30 April 2021. As informed by the Contractor, major activities in the reporting period were:

Location	Site Activities			
	25 – 31 January 2021	February 2021	March 2021	April 2021
Road P2 – West (Slip Road 3)	<ul style="list-style-type: none"> Drainage works 	<ul style="list-style-type: none"> Drainage works 	<ul style="list-style-type: none"> Drainage works 	<ul style="list-style-type: none"> Drainage works Retain wall construction
Road P2 – East (Hung Hing Road)	<ul style="list-style-type: none"> Drainage works 	<ul style="list-style-type: none"> Drainage works 	<ul style="list-style-type: none"> WSD water main replacement Drainage works 	<ul style="list-style-type: none"> WSD water main replacement Drainage works
Road P2 – Permanent PTI (Public Transport Interchange)	<ul style="list-style-type: none"> Drainage works 	<ul style="list-style-type: none"> Drainage works 	<ul style="list-style-type: none"> Drainage works 	<ul style="list-style-type: none"> Drainage works HEC cabling works

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.

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 first Quarterly EM&A Report which summaries the impact monitoring results and audit findings for the Project during the reporting period between 25 January and 30 April 2021.

1.2 Report Structure

- 1.2.1 This Quarterly EM&A 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 operation. Further Environmental Permits (FEP No. FEP-03/376/2009 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

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

Location	Site Activities			
	25 – 31 January 2021	February 2021	March 2021	April 2021
Road P2 – West (Slip Road 3)	<ul style="list-style-type: none"> Drainage works 	<ul style="list-style-type: none"> Drainage works 	<ul style="list-style-type: none"> Drainage works 	<ul style="list-style-type: none"> Drainage works Retain wall construction
Road P2 – East (Hung Hing Road)	<ul style="list-style-type: none"> Drainage works 	<ul style="list-style-type: none"> Drainage works 	<ul style="list-style-type: none"> WSD water main replacement Drainage works 	<ul style="list-style-type: none"> WSD water main replacement Drainage works
Road P2 – Permanent PTI (Public Transport Interchange)	<ul style="list-style-type: none"> Drainage works 	<ul style="list-style-type: none"> Drainage works 	<ul style="list-style-type: none"> Drainage works 	<ul style="list-style-type: none"> Drainage works HEC cabling works

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)	Senior Construction Manager – SCL Civil	Mr. Mike Bezzano	3959 2128	3959 2200
Meinhardt	Independent Environmental Checker	Independent Environmental Checker	Ms. Claudine Lee	2859 5409	2540 1580
JV	Contractor	Project Director	Mr. Brian Shepstone	3973 0838	31051126
		Environmental Engineer	Ms. Doris Law	3973 1498	
AECOM	Environmental Team (ET)	ET Leader	Mr. Y W Fung	3922 9366	2317 7609

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 Locations

- 3.1.2 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 3.1** and shown in **Figure 3.1**.

Table 3.1 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.

3.2 Construction Dust 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 3.2** 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 3.2 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 Locations

- 3.2.2 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 3.3** and shown in **Figure 3.1**.

Table 3.3 Noise Monitoring Station during Construction Phase

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

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, Footbridge for Ex-Harbour Road Sports Centre (M1a) was selected as the most affected sensitive receiver during the construction phase.

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**.

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. Detail of air quality monitoring results and graphical presentation is provided in **Appendix E**.

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

ID	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
CMA5b	70.0	29.4 – 154.4	209.9	260
CMA6a	49.4	11.8 – 123.9	207.1	260

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

ID	Average ($\mu\text{g}/\text{m}^3$)	Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
CMA5b	65.8	57.4 – 70.7	339.7	500
CMA6a	62.3	56.4 – 68.4	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 G**.
- 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 Detail of noise monitoring results and graphical presentation is provided in **Appendix F**.

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	75

(*) Baseline correction will be made to the measured L_{eq} 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 G**.
- 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, 2,997 m³ 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. 148 m³ fill material was imported in the reporting period. No 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 I**.
- 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 site inspection is provided in **Appendix C**. The observations and recommendations made during the site inspections are presented in 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 25 January 2021 to 30 April 2021. 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 H**.

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 H**.

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 and 1-hour TSP monitoring at the monitoring locations in the reporting period.
- 8.1.3 No Action Level exceedance was recorded since no noise related complaint was received in the reporting period.
- 8.1.4 No Limit Level exceedance for noise was recorded at all monitoring stations in the reporting period.
- 8.1.5 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.
- 8.1.6 No environmental complaint was received in the reporting period.
- 8.1.7 No notification of summons and successful prosecution were received in the reporting period.
- 8.1.8 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 should provide adequate wheels washing for leaving vehicle at the site entrance;
- The Contractor should provide adequate water spraying frequently on exposed area for dust suppression;
- The Contractor was advised to affix the proper NRMM label on the roller before operation;
- The Contractor was advised to provide water spraying regularly on haul road for dust suppression;
- The Contractor was advised to clean up the muddy trail to maintain the site tidiness; and
- The Contractor was advised to provide water spraying for the breaking.

Construction Noise Impact

- No specific observation was identified in the reporting period.

Water Quality Impact

- The Contractor was advised to remove the silt at the edge of site boundary to prevent muddy water seepage.

Chemical and Waste Management

- No specific observation was identified in the reporting period.

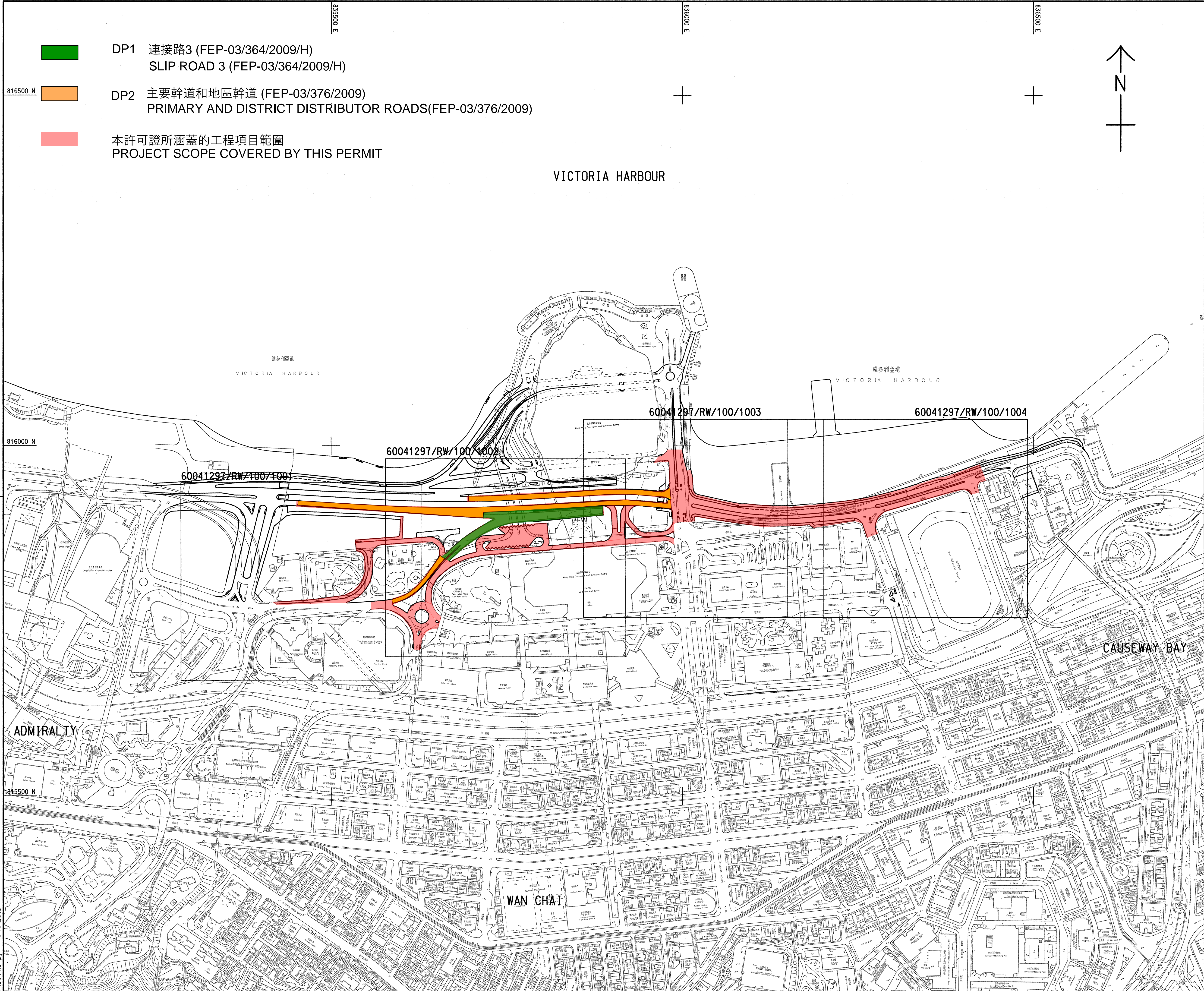
Landscape & Visual Impact



- No specific observation was identified in the reporting period.

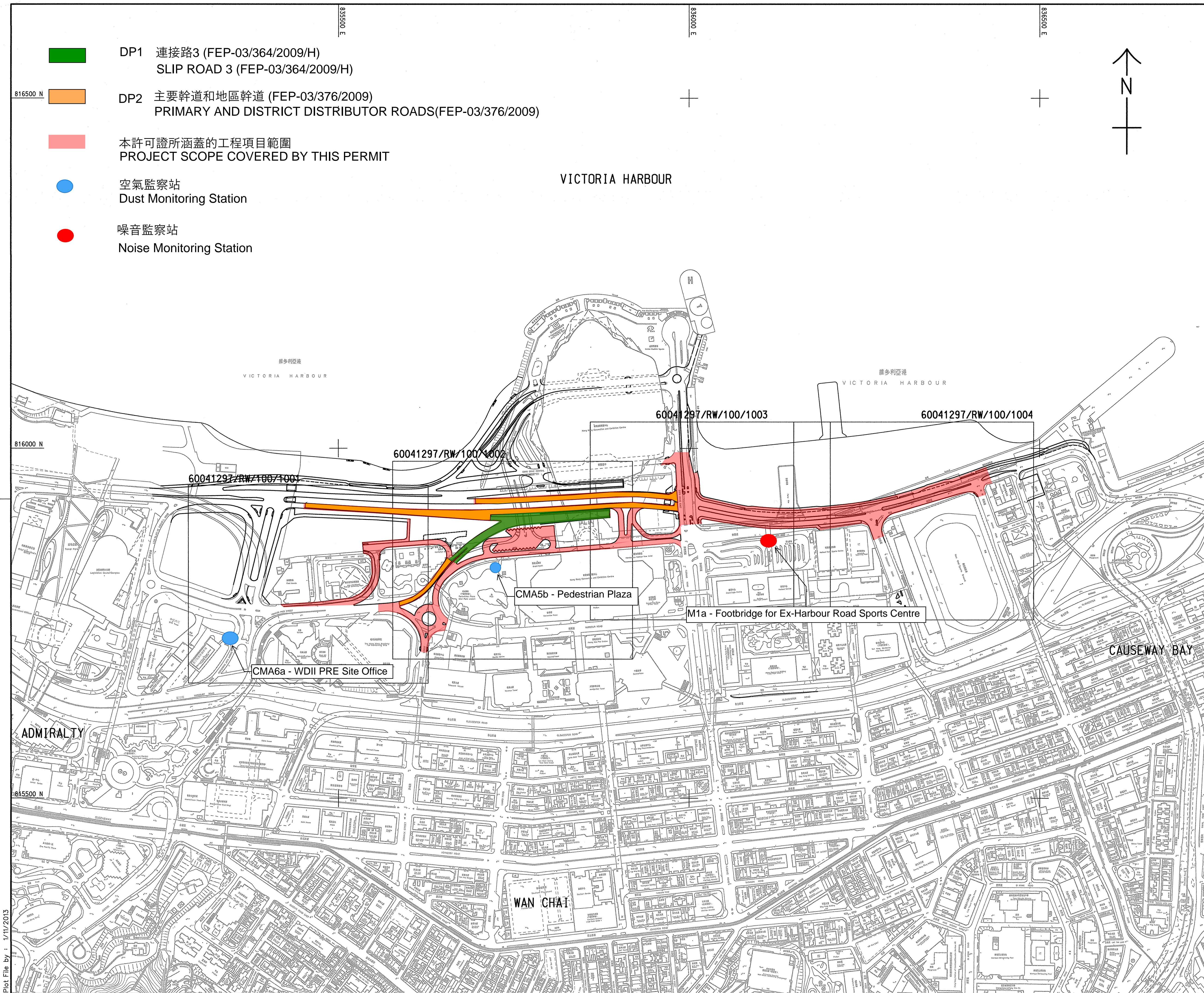
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
- No specific observation was identified in the reporting period.

FIGURES



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CEDD ENTRUSTED WORKS						
Site Layout Plan of CEDD Entrusted Works under Contract 1123						
						
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Air Quality and Noise Monitoring Locations for CEDD Entrusted Works			
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APPENDIX A

Construction Programme

ID	Task Name	Duration	Start	Finish	Dec	2021 Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2022 Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	CEDD Entrusted works- Road P2- Slip Road 3	785 d?	Jan 7 '20	Aug 3 '22																									
2	SR3- TTM 1	457 d	Jan 7 '20	Jul 13 '21																									
9	SR3- TTM 1.2 -Coach Park Area:	36 d	Jun 1 '21	Jul 13 '21																									
10	Construct the gullies and drain -Assumed(after Area B backfill and	24 d	Jun 1 '21	Jun 28 '21																									
11	Backfill and reinstate temp pavement	12 d	Jun 29 '21	Jul 13 '21																									
17	SR3- TTM 2a	289 d	May 28 '20	May 10 '21																									
18	Interface with WDII	147 d	Aug 22 '20	Feb 16 '21																									
20	Handover P6B & P6C and P6E	0 d	Feb 16 '21	Feb 16 '21																									
23	SR3 TTM 2a.2 – Slip Road 3 and Coach parking area	287 d	May 30 '20	May 10 '21																									
26	Construct watermain F19 tee and fire hydrant	12 d	Jan 25 '21	Feb 6 '21																									
27	Construct part of irrigation main and pipe sleeve for WP7-2	6 d	Feb 8 '21	Feb 13 '21																									
28	Construct kerbline and footpath pavement	48 d	Feb 15 '21	Apr 10 '21																									
29	Remove & Re-construct asphalt pavement for Slip Road 3 and	24 d	Apr 12 '21	May 10 '21																									
30	SR3 TTM 2a.3 – Reboundout-Planter No. 3	48 d	Dec 24 '20	Feb 20 '21																									
32	Construction the permanent traffic island at southside	24 d	Jan 25 '21	Feb 20 '21																									
41	SR3 TTM 2b.2 –Permanent Slip Road 3 construction (2nd portion)	126 d	Jan 22 '21	Jun 18 '21																									
42	Construct drainage	36 d	Jan 22 '21	Mar 4 '21																									
43	Construct watermain F17	24 d	Mar 5 '21	Apr 1 '21																									
44	Construct gantry foundation	24 d	Apr 2 '21	Apr 29 '21																									
45	Construct road kerb & central divider	18 d	Apr 30 '21	May 21 '21																									
46	Construct asphalt pavement	12 d	May 22 '21	Jun 4 '21																									
47	Construct temp street light	12 d	Jun 5 '21	Jun 18 '21																									
48	SR3 TTM 2b.3 -Temp Road (Temp LungKing Street)	24 d	Jun 19 '21	Jul 17 '21																									
49	Construct temp. road	12 d	Jun 19 '21	Jul 3 '21																									
50	Construct temp street light	12 d	Jul 5 '21	Jul 17 '21																									
51	SR3- TTM 3	265 d	Feb 20 '21	Dec 30 '21																									
52	Interface with WDII	0 d	Aug 12 '21	Aug 12 '21																									
53	Handover P6	0 d	Aug 12 '21	Aug 12 '21																									
54	SR3 TTM 3.1: Divert CEB to Permanent Slip Road 3	87 d	Apr 9 '21	Jul 21 '21																									
55	Preparation woks for divert CWB traffic to Slip Road 3	72 d	Apr 9 '21	Jul 5 '21																									
56	Divert CWB traffic to Slip Road 3	3 d	Jul 19 '21	Jul 21 '21																									
57	SR3 TTM 3.2 : Close Detoured Slip Road 3	3 d	Jul 22 '21	Jul 24 '21																									
58	Close Detoured Slip Road 3	3 d	Jul 22 '21	Jul 24 '21																									
59	SR3 TTM 3.3 : Temp lungKing Road	3 d	Jul 26 '21	Jul 28 '21																									
60	Divert Traffic to Temp. Lung King Road	3 d	Jul 26 '21	Jul 28 '21																									
61	SR3 TTM 3.4 -Reboundout	108 d	Jul 22 '21	Nov 25 '21																									
62	De-commission of traffic light system and change to free flow road	6 d	Jul 22 '21	Jul 28 '21																									
63	Construct drainage	48 d	Jul 29 '21	Sep 22 '21																									
64	Construct irrigation main	12 d	Sep 23 '21	Oct 7 '21																									
65	Construct permanent planters	30 d	Oct 8 '21	Nov 11 '21																									
66	construction of Rest of the Traffic Island at Harbour Road	12 d	Nov 12 '21	Nov 25 '21																									
67	SR3 TTM 3.5 -LungKing Street	265 d	Feb 20 '21	Dec 30 '21																									
68	Land W22 Access	0 d	Feb 20 '21	Feb 20 '21																									
69	Land W21 Access	0 d	Feb 20 '21	Feb 20 '21																									
70	Temp Road Diversion of existing MVB(CWB) EVA	24 d	Mar 26 '21	Apr 22 '21																									
71	Construct Part (bay 1-4) retaining wall and drainage/lighting duct	150 d	Apr 23 '21	Oct 18 '21																									
72	Construct remaining retaining wall	48 d	Jul 29 '21	Sep 22 '21																									
73	Construct remaining drainage	48 d	Sep 23 '21	Nov 18 '21																									
74	Construct site formation and road kerb	18 d	Nov 19 '21	Dec 9 '21																									
75	Construct asphalt road pavement and footpath	18 d	Dec 10 '21	Dec 30 '21																									
76	SR3- TTM 4	90 d	Nov 26 '21	Mar 11 '22																									
77	SR3 TTM 4.1 -Reboundout	6 d	Nov 26 '21	Dec 2 '21																									
78	Divert the Traffic to outmost lanes	6 d	Nov 26 '21	Dec 2 '21																									
79	SR3 TTM 4.2 - Lung King Street/Fenwick Pier Street	60 d	Dec 31 '21	Mar 11 '22																									
80	Construct drainage & gully	36 d	Dec 31 '21	Feb 11 '22																									
81	Construct Footpath	24 d	Feb 12 '22	Mar 11 '22																									
82	SR3- TTM 5	123 d	Jul 22 '21	Dec 13 '21																									
83	Interface with WDII	0 d	Nov 12 '21	Nov 12 '21																									
84	Handover Land- P5	0 d	Nov 12 '21	Nov 12 '21																									
85	SR3 TTM 5.1 -Temp Road Diversion for Lung Wo Road	48 d	Jul 22 '21	Sep 15 '21																									
86	Temp Road Construction	24 d	Jul 22 '21	Aug 18 '21																									
87	TTM Diversion	24 d	Aug 19 '21	Sep 15 '21																									

Critical Split

Task

Milestone

Summary

Manual Progress

Critical

CONTRACT NO.SCL1123

Shatin to Central Link

Contract 1123- Exhibition Station and Western Approach Tunnel

CEDD Entrusted Works

Page 1

ID	Task Name	Duration	Start	Finish	2021												2022											
					Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
88	SR3 TTM 5.2 - Re-alignment Lung Wo Road(W/B)	60 d	Sep 16 '21	Nov 25 '21																								
89	Reconstruct drainage and Gullies	36 d	Sep 16 '21	Oct 28 '21																								
90	Reconstruct Road kerb and Pavement	24 d	Oct 29 '21	Nov 25 '21																								
91	Removal of De-toured Slip Road 3	24 d	Oct 29 '21	Nov 25 '21																								
92	SR5 TTM 5.3 -Reconstruct kerbline and Pavement between Lung	75 d	Sep 16 '21	Dec 13 '21																								
93	-Reconstruct kerbline and Pavement between Lung Wo road (w/b) &	75 d	Sep 16 '21	Dec 13 '21																								
94	SR3- TTM 6	448 d?	Feb 22 '21	Aug 3 '22																								
95	SR3 TTM 6.1 - Lung Wo Road North	213 d	Nov 26 '21	Aug 3 '22																								
96	Divert traffic to South side of Lung Wo Road	6 d	Nov 26 '21	Dec 2 '21																								
97	Drainage and raod works at North side	108 d	Dec 3 '21	Apr 8 '22																								
98	Removal of Temp Road	24 d	Apr 9 '22	May 6 '22																								
99	Reinstatement of Planter Area	75 d	May 7 '22	Aug 3 '22																								
100	SR3 TTM 6.2 - Abandoned Lung King Street	298 d?	Feb 22 '21	Feb 8 '22																								
101	Removal and abandoned Lung King Street	48 d	Dec 14 '21	Feb 8 '22																								
102		1 d?	Feb 22 '21	Feb 22 '21																								
121	Removal of Temp Slip Road	158 d	Sep 21 '20	Mar 30 '21																								
128	Removal of Temp Slip Road	14 d	Jan 16 '21	Feb 1 '21																								
129	Trimming D-wall Panels(L92-L101& L34-L37)	20 d	Feb 2 '21	Feb 24 '21																								
130	Continue rest Drainage and sewage construction	24 d	Feb 25 '21	Mar 24 '21																								
131	No fine Concrete Backfill	5 d	Mar 25 '21	Mar 30 '21																								
132	B400 (EVA)	54 d	Feb 25 '21	Apr 28 '21																								
133	Complete Remaining Drainage	24 d	Feb 25 '21	Mar 24 '21																								
134	Site Formation/Road Kerb/Pedestrian Crossing	18 d	Mar 25 '21	Apr 14 '21																								
135	Road works and EVA ready	12 d	Apr 15 '21	Apr 28 '21																								
136	B300	104 d	Feb 1 '21	Jun 2 '21																								
137	Close Area C1 opening (DRD)/Backfill	36 d	Feb 1 '21	Mar 13 '21																								
138	Break D-wall (L90-91& L32-33)Complete Remaining drinage	28 d	Mar 15 '21	Apr 15 '21																								
139	Complete Remaining UU	10 d	Apr 16 '21	Apr 27 '21																								
140	Site Formation/Road Kerb/Pedestrian Crossing	18 d	Apr 28 '21	May 19 '21																								
141	Final Road works and Road marking	12 d	May 20 '21	Jun 2 '21																								
142	CEDD Entrusted works-Road P2- Hung Hing Road	561 d	Jul 29 '20	May 25 '22																								
143	TTM1-Divert Convention Avenue and Hung Hing Road	255 d	Jul 29 '20	May 29 '21																								
148	TTM1-Road works at Convention Avenue and Hung Hing Road	174 d	Nov 4 '20	May 29 '21																								
150	Underground Drinage and Utilities	90 d	Nov 25 '20	Mar 12 '21																								
151	Permanent Road Formation	36 d	Feb 20 '21	Apr 2 '21																								
152	Permanent Road pavement and Footpath	24 d	Apr 3 '21	Apr 30 '21																								
153	Interface transition pavement works	24 d	May 3 '21	May 29 '21																								
154	TTM2-Divert East direction to permanent alignment	183 d	Mar 31 '21	Nov 2 '21																								
155	Constuct Temp road	24 d	May 31 '21	Jun 26 '21																								
156	Apply TTM and Approval	75 d	Mar 31 '21	Jun 26 '21																								
157	Implement TTM2	12 d	Jun 28 '21	Jul 12 '21																								
158	TTM2- Drainage and road works at Junctions	96 d	Jul 13 '21	Nov 2 '21																								
159	Underground Drinage and Utilities	48 d	Jul 13 '21	Sep 6 '21																								
160	Site Formation/Road Kerb	18 d	Aug 31 '21	Sep 20 '21																								
161	Permanent Road works at Junctions	18 d	Sep 21 '21	Oct 12 '21																								
162	Interface transition pavement works	18 d	Oct 13 '21	Nov 2 '21																								
163	TTM3- Diversion on Marsh Road/HungHing Road	177 d	Aug 27 '21	Mar 23 '22																								
164	Constuct Temp road	18 d	Nov 3 '21	Nov 23 '21																								
165	Apply TTM3 and Approval	75 d	Aug 27 '21	Nov 23 '21																								
166	Implement TTM3	12 d	Nov 24 '21	Dec 7 '21																								
167	TTM3- Drainage and road works at Junctions	90 d	Dec 8 '21	Mar 23 '22																								
168	Underground Drinage and Utilities	36 d	Dec 8 '21	Jan 19 '22																								
169	Site Formation/Road Kerb	18 d	Jan 20 '22	Feb 9 '22																								
170	Permanent Road works at Junctions	18 d	Feb 10 '22	Mar 2 '22																								
171	Interface transition pavement works	18 d	Mar 3 '22	Mar 23 '22																								
172	TTM4- Final Alignmeent	129 d	Dec 25 '21	May 25 '22																								
173	Apply TTM4 and Approval	75 d	Dec 25 '21	Mar 23 '22																								
174	Implement TM4	18 d	Mar 24 '22	Apr 13 '22																								
175	Permanent Foot path and Central Island Construction	36 d	Apr 14 '22	May 25 '22																								
176	Completion of Road P2 works at HungHing Road and Convention Avenue	0 d	May 25 '22	May 25 '22																								

Critical Split

Task

Milestone

Summary

Manual Progress

Critical

ID	Task Name	Duration	Start	Finish	2021														2022											
					Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	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																										
182	Middle Part- Remaining Drainage work	28 d	Jan 16 '21	Feb 17 '21																										
183	Middle Part- Irrigation works and Road Kerb	28 d	Feb 18 '21	Mar 22 '21																										
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																										
186	Implement TTM2	12 d	Mar 31 '21	Apr 13 '21																										
187	Remaining Drainage Works-Middle part	28 d	Apr 14 '21	May 17 '21																										
188	Irrigation and landscape works -Middle part	28 d	May 18 '21	Jun 18 '21																										
189	Road Kerb-North of Convention Anenue	18 d	Jun 8 '21	Jun 28 '21																										
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																										
192	Permanent TTM at PTI approval (no drawing now)	75 d	Apr 1 '21	Jun 29 '21																										
193	Area C2-Road works Completed	0 d	Jun 29 '21	Jun 29 '21																										
194	works at Expro East completed	0 d	Jun 29 '21	Jun 29 '21																										
195	Implement TTM3- to Final Alignment	6 d	Jun 29 '21	Jul 6 '21																										
196	Road Kerb and Footpath Pavement/road lighting -North of Convention	24 d	Jul 7 '21	Aug 3 '21																										
197	Road Lighting /rails and Final touch up	24 d	Aug 4 '21	Aug 31 '21																										

Critical Split

Task

Milestone

◆

Summary

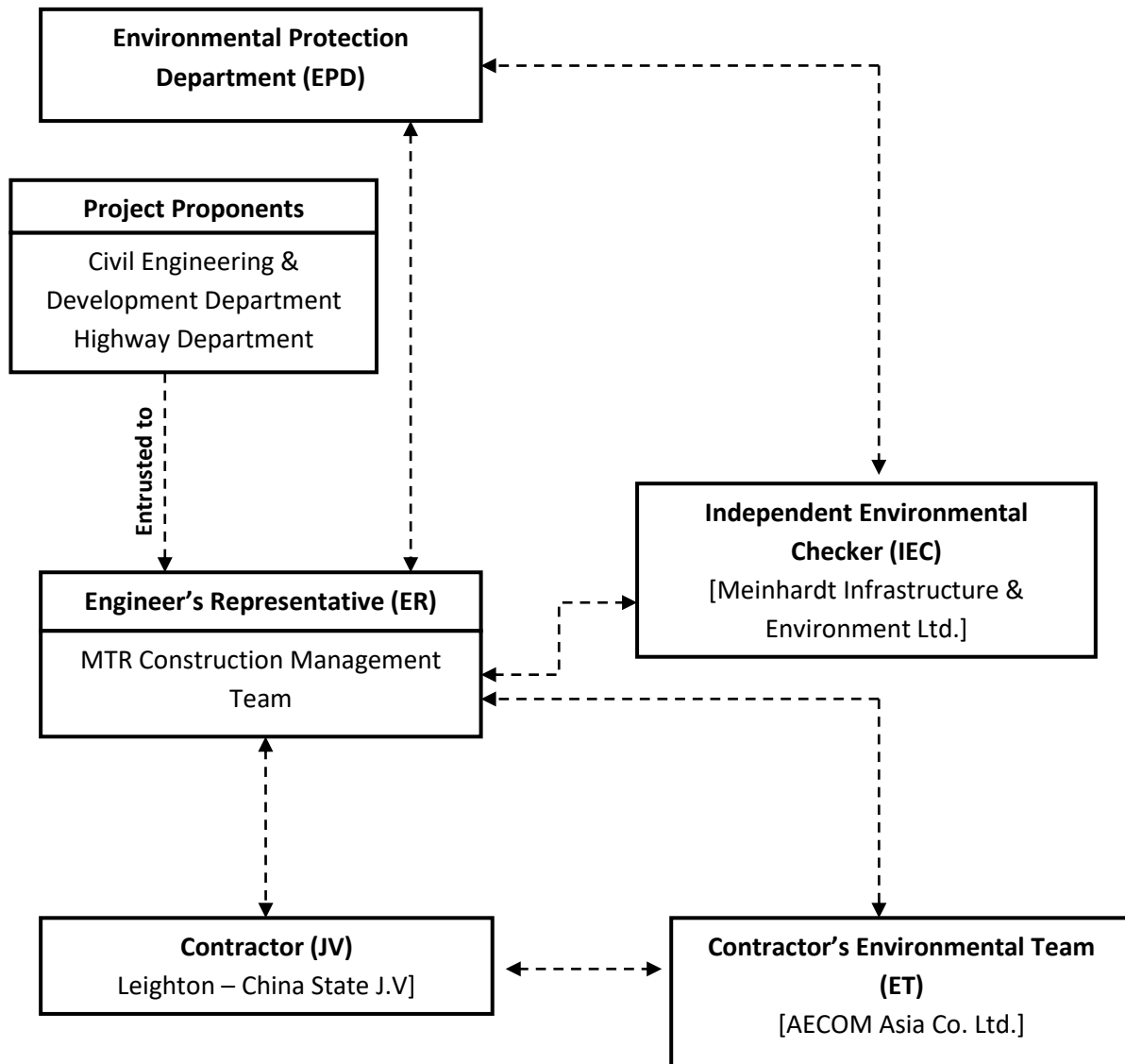
Manual Progress

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	When to implement the measures?	Implementation Status
Construction Dust Impact					
Construction Phase					
S3.6.5	Four times a day watering of the work site with active operations	Contractor	Works areas	Construction phase	@
S3.8.1	<p>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.</p> <ul style="list-style-type: none"> 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. 	Contractor	Works areas	Construction phase	<p>@</p> <p>V</p> <p>@</p> <p>V</p>
/	<p>Dust suppression measures (con't)</p> <ul style="list-style-type: none"> 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	Construction phase	<p>V</p> <p>@</p> <p>@</p>
/	<p>Emission from Vehicles and Plants</p> <ul style="list-style-type: none"> 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	Construction phase	<p>V</p> <p>V</p> <p>V</p>

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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
Airborne Noise Impact					
Construction Phase					
S4.9.4	Good Site Practice: <ul style="list-style-type: none"> 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	Construction phase	V V V V V V
For DP1 – CWB (Within the Project Boundary)					
S4.8.3 – S4.8.5	Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> At-grade roadwork Substructure for IECL connection 	Contractor	Works areas	Construction phase	N/A V V V N/A N/A N/A V N/A
For DP2 – WDII Major Roads (Road P2)					
S4.8.3 – S4.8.4	Use of quiet powered mechanical equipment, movable noise barrier and temporary noise barrier for the following tasks: <ul style="list-style-type: none"> Temporary road diversion Resurfacing At-grade roadwork 				V V V
Water Quality Impact					
Construction Phase					
S5.8	Construction Runoff and Drainage: <ul style="list-style-type: none"> 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 	Contractor	Works areas	Construction phase	V V

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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
	<p>rates. The design of efficient silt removal facilities shall be based on the guidelines in Appendix A1 of ProPECC PN 1/94;</p> <ul style="list-style-type: none"> 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 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 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 is finished or the temporary diversion is no longer required; All fuel tanks and store areas shall be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity; 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 				<p>V</p> <p>V</p> <p>@</p> <p>V</p> <p>V</p> <p>V</p> <p>V</p>
S5.8	<p>Sewage from Construction Work Force:</p> <p>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.</p>	Contractor	Works areas	Construction phase	V
S5.8	<p>Floating Debris and Refuse:</p> <p>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.</p>	Contractor	Works areas and adjacent water	Construction phase	V
S5.8	<p>Storm Water Discharges:</p> <p>Minimum distances of 100 m shall be maintained between the existing or planned stormwater discharges and the existing or planned WSD flushing water intakes.</p>	Contractor	Works areas and adjacent water	Construction phase	V
Waste Management Implications					
Construction Phase					
S6.7.7	<p>Good Site Practices:</p> <p>Recommendations for good site practices during the construction activities include:</p> <ul style="list-style-type: none"> 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 	Contractor	Works areas	During planning and design stage, and construction stage	<p>V</p> <p>V</p> <p>V</p> <p>V</p>

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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
	trucks or by transporting wastes in enclosed containers; <ul style="list-style-type: none"> 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). 				V V
S6.7.8	Waste Reduction Measures: Recommendations to achieve waste reduction include: <ul style="list-style-type: none"> 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 re-use 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	During planning and design stage, and construction stage	V V V V V V V V
S6.7.10	General Refuse: <ul style="list-style-type: none"> 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 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. 	Contractor	Works areas	Construction phase	V V
S6.7.11	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: <ul style="list-style-type: none"> 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
S6.7.14	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: <ul style="list-style-type: none"> 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. 	Contractor	Works areas	Construction phase	N/A N/A

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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
	<ul style="list-style-type: none"> 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. 				N/A
/	<p>Accidental spillage To prevent accidental spillage of chemicals, the following is recommended:</p> <ul style="list-style-type: none"> 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 V
Land Contamination 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
Landscape and Visual					
Construction Phase					
For DP1 – CWB (Within the Project Boundary) and DP2 - WDII Major Roads (Road P2)					
Table 10.5	CM1 - Topsoil, where identified, shall be stripped and stored for re-use in the construction of the soft landscape works, where practical. 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.	Contractor	Works areas	Construction phase	V N/A N/A N/A V N/A

Legend: V = implemented;
x = not implemented;
@ = partially implemented;
N/A = not applicable

APPENDIX D

Summary of Action and Limit Levels

Appendix D – Summary of Action and Limit Levels**Table 1 Action and Limit Levels for 24-hour TSP**

ID	Location	Action Level	Limit Level
CMA5b	Pedestrian Plaza	209.9 $\mu\text{g}/\text{m}^3$	260 $\mu\text{g}/\text{m}^3$
CMA6a	WDII PRE Site Office	207.1 $\mu\text{g}/\text{m}^3$	260 $\mu\text{g}/\text{m}^3$

Table 2 Action and Limit Levels for 1-hour TSP

ID	Location	Action Level	Limit Level
CMA5b	Pedestrian Plaza	339.7 $\mu\text{g}/\text{m}^3$	500 $\mu\text{g}/\text{m}^3$
CMA6a	WDII PRE Site Office	333 $\mu\text{g}/\text{m}^3$	500 $\mu\text{g}/\text{m}^3$

**Table 3 Action 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

Air Quality Monitoring Graphical Presentations

Appendix G

Air Quality Monitoring Results

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

Start		End		Weather Condition	Air Temp. (°C)	Atmospheric Pressure (hPa)	Flow Rate (m³/min.)		Av. flow (m³/min)	Total vol. (m³)	Filter Weight (g)		Particulate weight(g)	Elapse Time		Sampling Time(hrs.)	Conc. (µg/m³)
Date	Time	Date	Time				Initial	Final			Initial	Final		Initial	Final		
28-Jan-21	0:00	29-Jan-21	0:00	Sunny	19.1	1020.7	1.33	1.33	1.33	1921.0	2.7204	2.8388	0.1184	26399.01	26423.01	24.00	61.6
3-Feb-21	0:00	4-Feb-21	0:00	Fine	18.4	1021.7	1.33	1.33	1.33	1921.0	2.7032	2.8108	0.1076	26423.01	26447.01	24.00	56.0
8-Feb-21	0:00	9-Feb-21	0:00	Rainy	19.9	1018.9	1.33	1.33	1.33	1921.0	2.6615	2.8955	0.2340	26447.01	26471.01	24.00	121.8
11-Feb-21	0:00	12-Feb-21	0:00	Sunny	17.4	1014.7	1.33	1.33	1.33	1921.0	2.6535	2.7100	0.0565	26471.01	26495.01	24.00	29.4
17-Feb-21	0:00	18-Feb-21	0:00	Sunny	20.4	1019.6	1.33	1.33	1.33	1921.0	2.7232	2.8698	0.1466	26495.01	26519.01	24.00	76.3
23-Feb-21	0:00	24-Feb-21	0:00	Fine	21.7	1015.0	1.33	1.33	1.33	1921.0	2.7179	2.8760	0.1581	26519.01	26543.01	24.00	82.3
1-Mar-21	0:00	2-Mar-21	0:00	Sunny	21.9	1016.2	1.34	1.34	1.34	1933.9	2.7377	2.8696	0.1319	26543.01	26567.01	24.00	68.2
6-Mar-21	0:00	7-Mar-21	0:00	Sunny	20.5	1018.8	1.34	1.34	1.34	1933.9	2.7311	2.8465	0.1154	26567.01	26591.01	24.00	59.7
12-Mar-21	0:00	13-Mar-21	0:00	Sunny	23.2	1018.4	1.34	1.34	1.34	1933.9	2.7000	2.8437	0.1437	26591.01	26615.01	24.00	74.3
18-Mar-21	0:00	19-Mar-21	0:00	Sunny	23.4	1013.2	1.34	1.34	1.34	1933.9	2.6979	2.8042	0.1063	26615.01	26639.01	24.00	55.0
24-Mar-21	0:00	25-Mar-21	0:00	Sunny	20.7	1016.5	1.34	1.34	1.34	1933.9	2.6889	2.9875	0.2986	26639.01	26663.01	24.00	154.4
29-Mar-21	0:00	30-Mar-21	0:00	Sunny	25.6	1007.3	1.34	1.34	1.34	1933.9	2.6881	2.7882	0.1001	26663.01	26687.01	24.00	51.8
1-Apr-21	0:00	2-Apr-21	0:00	Sunny	26.7	1007.6	1.34	1.34	1.34	1933.9	2.7796	2.8698	0.0902	26687.01	26711.01	24.00	46.6
7-Apr-21	0:00	8-Apr-21	0:00	Sunny	23.1	1016.0	1.34	1.34	1.34	1933.9	2.6835	2.8425	0.1590	26711.01	26735.01	24.00	82.2
12-Apr-21	0:00	13-Apr-21	0:00	Fine	24.6	1016.1	1.34	1.34	1.34	1933.9	2.7032	2.8098	0.1066	26735.01	26759.01	24.00	55.1
17-Apr-21	0:00	18-Apr-21	0:00	Sunny	22.8	1015.8	1.34	1.34	1.34	1933.9	2.7267	2.8165	0.0898	26759.01	26783.01	24.00	46.4
23-Apr-21	0:00	24-Apr-21	0:00	Sunny	27.3	1007.9	1.34	1.34	1.34	1933.9	2.6527	2.8107	0.1580	26783.01	26807.01	24.00	81.7
29-Apr-21	0:00	30-Apr-21	0:00	Sunny	24.1	1013.3	1.34	1.34	1.34	1933.9	2.6870	2.7959	0.1089	26807.01	26831.01	24.00	56.3
																Average	70.0
																Minimum	29.4
																Maximum	154.4

Appendix G

Air Quality Monitoring Results

24-hour TSP Monitoring Results at Station CMA6a (WDII PRE site office)

Start		End		Weather Condition	Air Temp. (°C)	Atmospheric Pressure (hPa)	Flow Rate (m³/min.)		Av. flow (m³/min)	Total vol. (m³)	Filter Weight (g)		Particulate weight(g)	Elapse Time		Sampling Time(hrs.)	Conc. (µg/m³)
Date	Time	Date	Time				Initial	Final			Initial	Final		Initial	Final		
28-Jan-21	0:00	29-Jan-21	0:00	Sunny	26.7	1007.6	1.34	1.34	1.34	1929.6	2.6885	2.8166	0.1281	9144.39	9168.39	24.00	66.4
3-Feb-21	0:00	4-Feb-21	0:00	Fine	18.4	1021.7	1.34	1.34	1.34	1929.6	2.6988	2.8173	0.1185	9168.39	9192.39	24.00	61.4
8-Feb-21	0:00	9-Feb-21	0:00	Rainy	19.9	1018.9	1.34	1.34	1.34	1929.6	2.6641	2.7847	0.1206	9192.39	9216.39	24.00	62.5
11-Feb-21	0:00	12-Feb-21	0:00	Sunny	17.4	1014.7	1.34	1.34	1.34	1929.6	2.6707	2.6935	0.0228	9216.39	9240.39	24.00	11.8
17-Feb-21	0:00	18-Feb-21	0:00	Sunny	20.4	1019.6	1.34	1.34	1.34	1929.6	2.7179	2.7850	0.0671	9240.39	9264.39	24.00	34.8
23-Feb-21	0:00	24-Feb-21	0:00	Fine	21.7	1015.0	1.34	1.34	1.34	1929.6	2.7303	2.8266	0.0963	9264.39	9288.39	24.00	49.9
1-Mar-21	0:00	2-Mar-21	0:00	Sunny	21.9	1016.2	1.34	1.34	1.34	1929.6	2.7280	2.8218	0.0938	9288.39	9312.39	24.00	48.6
6-Mar-21	0:00	7-Mar-21	0:00	Sunny	20.5	1018.8	1.34	1.34	1.34	1929.6	2.7253	2.7709	0.0456	9312.39	9336.39	24.00	23.6
12-Mar-21	0:00	13-Mar-21	0:00	Sunny	23.2	1018.4	1.34	1.34	1.34	1929.6	2.6958	2.7840	0.0882	9336.39	9360.39	24.00	45.7
18-Mar-21	0:00	19-Mar-21	0:00	Sunny	23.4	1013.2	1.34	1.34	1.34	1929.6	2.6968	2.7813	0.0845	9360.39	9384.39	24.00	43.8
24-Mar-21	0:00	25-Mar-21	0:00	Sunny	20.7	1016.5	1.34	1.34	1.34	1929.6	2.6825	2.9216	0.2391	9384.39	9408.39	24.00	123.9
29-Mar-21	0:00	30-Mar-21	0:00	Sunny	25.6	1007.3	1.34	1.34	1.34	1929.6	2.6857	2.7395	0.0538	9408.39	9432.39	24.00	27.9
1-Apr-21	0:00	2-Apr-21	0:00	Sunny	26.7	1007.6	1.33	1.33	1.33	1921.0	2.7844	2.8263	0.0419	9432.39	9456.39	24.00	21.8
7-Apr-21	0:00	8-Apr-21	0:00	Sunny	23.1	1016.0	1.33	1.33	1.33	1921.0	2.6866	2.7563	0.0697	9456.39	9480.39	24.00	36.3
12-Apr-21	0:00	13-Apr-21	0:00	Fine	24.6	1016.1	1.33	1.33	1.33	1921.0	2.6799	2.7466	0.0667	9480.39	9504.39	24.00	34.7
17-Apr-21	0:00	18-Apr-21	0:00	Sunny	22.8	1015.8	1.33	1.33	1.33	1921.0	2.6681	2.8669	0.1988	9504.39	9528.39	24.00	103.5
23-Apr-21	0:00	24-Apr-21	0:00	Sunny	27.3	1007.9	1.33	1.33	1.33	1921.0	2.6782	2.7860	0.1078	9528.39	9552.39	24.00	56.1
29-Mar-21	0:00	30-Mar-21	0:00	Sunny	24.1	1013.3	1.33	1.33	1.33	1921.0	2.6940	2.7628	0.0688	9552.39	9576.39	24.00	35.8
																Average	49.4
																Minimum	11.8
																Maximum	123.9

Appendix G
Air Quality Monitoring Results

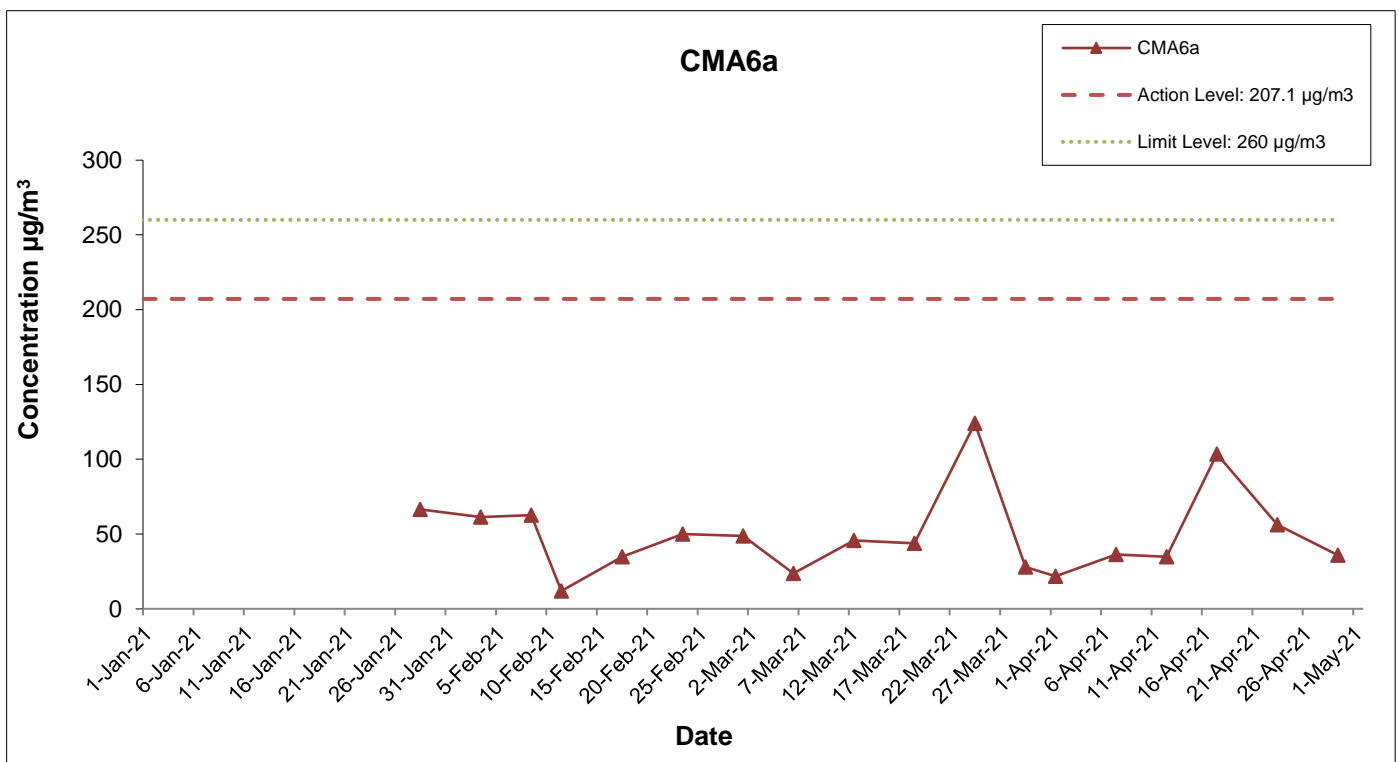
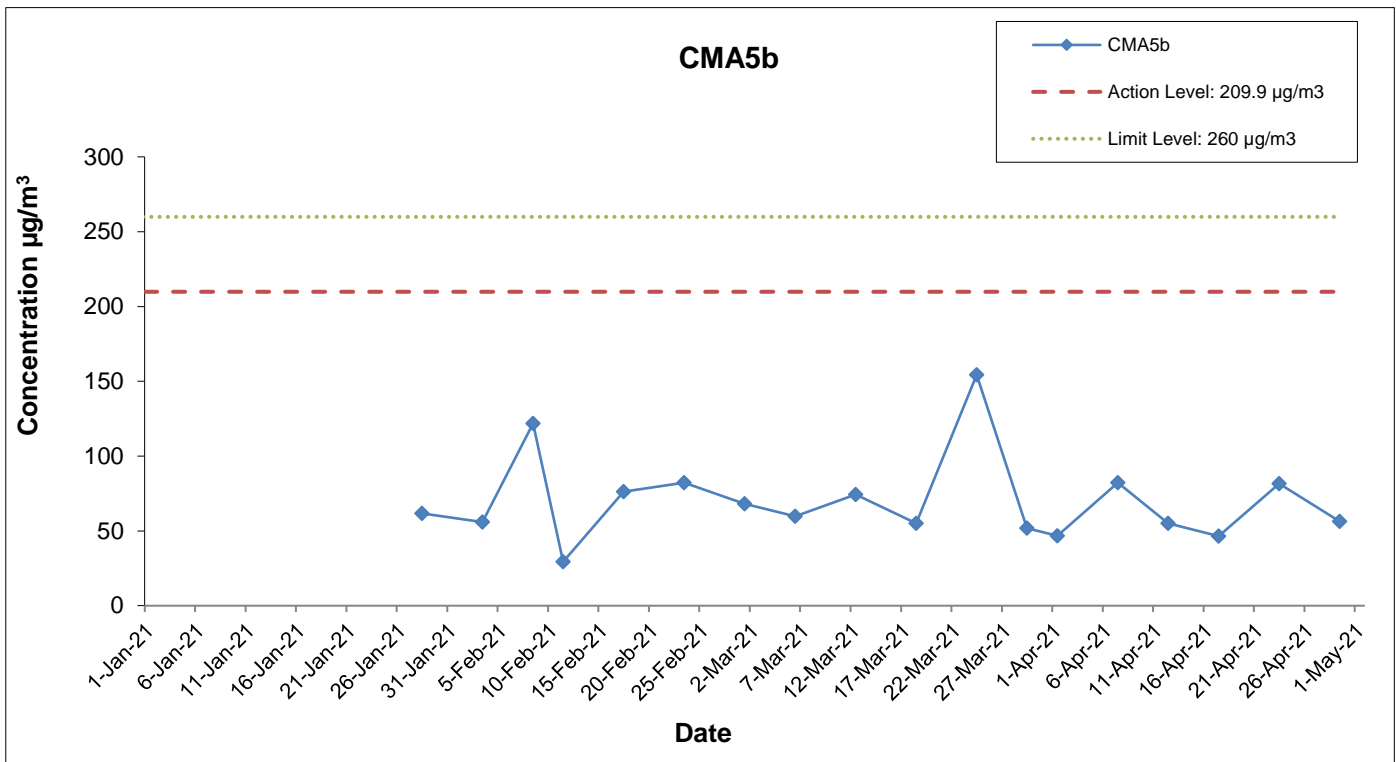
1-hour TSP Monitoring Results at Station CMA5b (Pedestrian Plaza)

Date	Start Time (hh:mm)	Weather Condition	1st Hour	2nd Hour	3rd Hour
			Conc. ($\mu\text{g}/\text{m}^3$)	Conc. ($\mu\text{g}/\text{m}^3$)	Conc. ($\mu\text{g}/\text{m}^3$)
29-Jan-21	13:20	Sunny	65.6	67.8	68.2
4-Feb-21	10:45	Fine	67.5	65.7	68.0
10-Feb-21	10:15	Rainy	62.9	65.0	61.7
16-Feb-21	14:00	Fine	70.2	66.9	65.6
18-Feb-21	13:00	Sunny	64.6	65.7	66.9
24-Feb-21	13:00	Fine	57.4	57.8	57.7
2-Mar-21	13:25	Sunny	67.7	65.3	65.9
8-Mar-21	13:30	Sunny	68.6	66.2	64.4
13-Mar-21	13:05	Sunny	58.9	61.9	63.3
19-Mar-21	13:30	Sunny	68.4	69.1	67.8
25-Mar-21	13:20	Sunny	68.6	68.9	68.3
30-Mar-21	10:50	Sunny	70.7	68.4	67.5
1-Apr-21	14:30	Sunny	66.6	67.4	64.9
7-Apr-21	14:15	Sunny	66.2	68.2	64.7
13-Apr-21	13:00	Sunny	66.6	62.4	64.7
19-Apr-21	13:30	Sunny	68.2	66.1	65.2
24-Apr-21	10:50	Sunny	66.2	63.1	63.9
30-Apr-21	14:15	Sunny	67.4	68.2	66.9
				Average	65.8
				Min	57.4
				Max	70.7

Appendix G
Air Quality Monitoring Results

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

Date	Start Time (hh:mm)	Weather Condition	1st Hour	2nd Hour	3rd Hour
			Conc. (µg/m ³)	Conc. (µg/m ³)	Conc. (µg/m ³)
29-Jan-21	13:05	Sunny	64.4	66.1	68.4
4-Feb-21	10:30	Fine	63.3	64.8	62.6
10-Feb-21	10:30	Rainy	58.2	57.1	56.4
16-Feb-21	13:35	Fine	64.2	63.3	65.4
18-Feb-21	13:10	Sunny	59.4	60.7	61.9
24-Feb-21	14:00	Fine	59.8	57.4	57.6
2-Mar-21	13:40	Sunny	63.6	62.5	63.0
8-Mar-21	14:00	Sunny	62.3	61.0	63.7
13-Mar-21	13:15	Sunny	57.4	56.7	58.8
19-Mar-21	13:40	Sunny	66.6	65.7	62.0
25-Mar-21	10:00	Sunny	63.8	61.7	62.7
30-Mar-21	11:05	Sunny	65.2	66.9	63.8
1-Apr-21	14:40	Sunny	60.7	62.1	63.7
7-Apr-21	14:05	Sunny	61.1	63.7	64.8
13-Apr-21	13:15	Sunny	60.7	62.0	61.3
19-Apr-21	13:45	Sunny	64.0	63.1	61.9
24-Apr-21	11:15	Sunny	62.5	61.8	63.3
30-Apr-21	14:00	Sunny	62.7	64.8	61.3
				Average	62.3
				Min	56.4
				Max	68.4



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Shatin Central Link Contract No. 1123

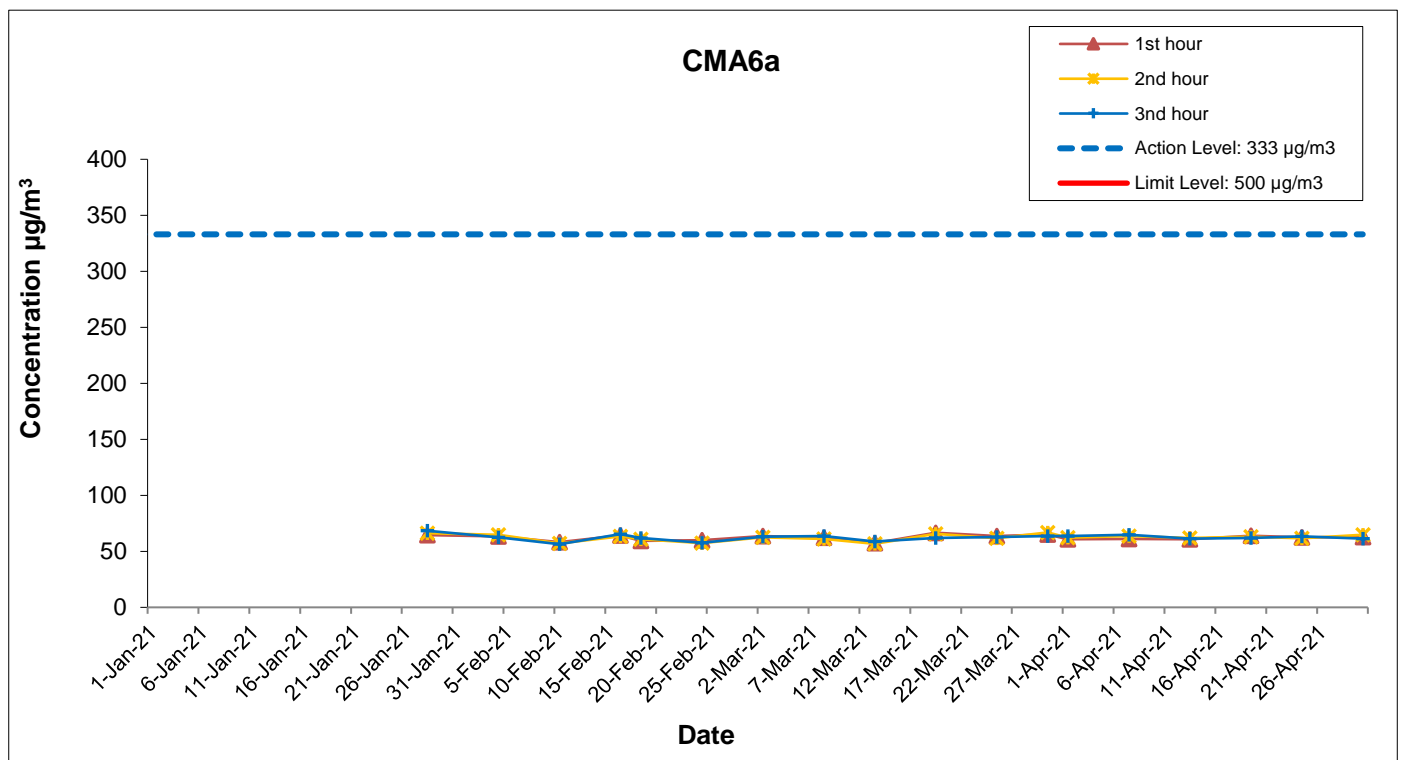
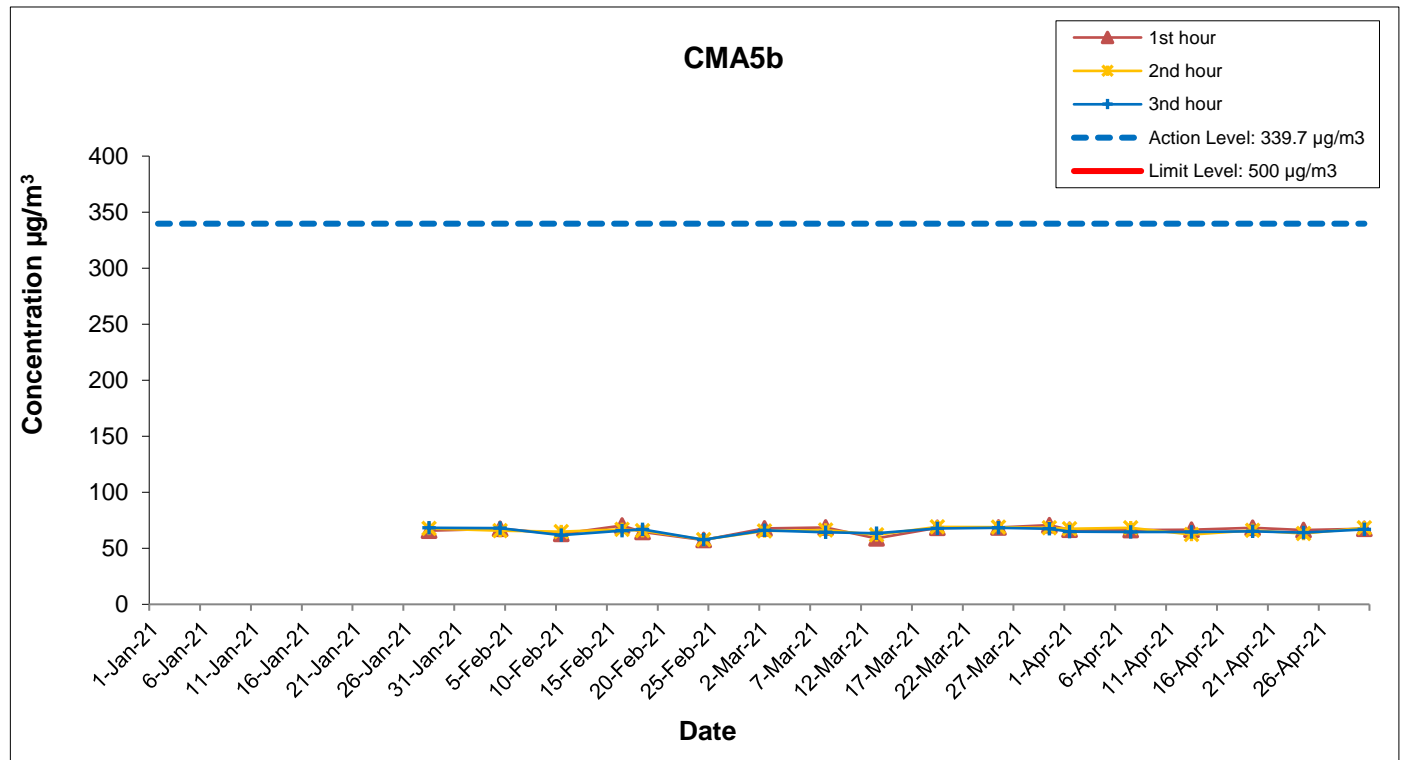
Entrusted Work for Road P2 & other roads and Slip Road 3

AECOM

Graphical Presentation of Impact 24-hr TSP Monitoring Results

Date: May 2021

Appendix E



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Shatin Central Link Contract No. 1123
 Entrusted Work for Road P2 & other roads and Slip Road 3



Graphical Presentation of Impact 1-hr TSP Monitoring Results

Date: May 2021

Appendix E

APPENDIX F

Noise Monitoring Graphical Presentations

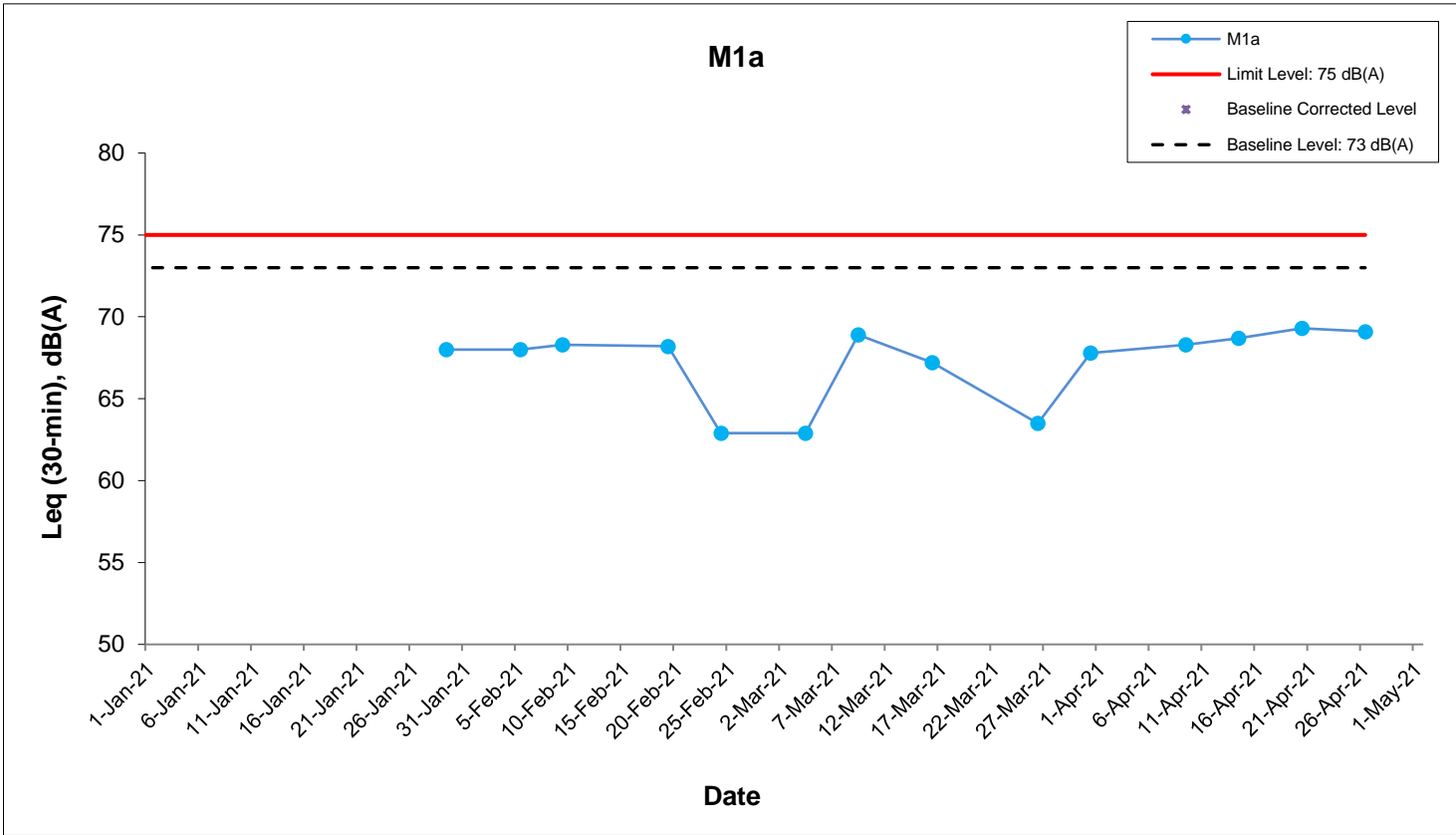
Appendix H Regular Construction Noise Monitoring Results

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

Date	Weather Condition	Noise Level for 30-min, dB(A) ⁺				Baseline Corrected Level, dB(A)	Baseline Noise Level, dB(A)	Limit Level, dB(A)	Exceedance (Y/N)
		Time	L90	L10	Leq				
29-Jan-21	Sunny	13:45	66.0	69.0	68.0	<Baseline	73.0	75	N
5-Feb-21	Fine	11:10	66.0	69.5	68.0	<Baseline	73.0	75	N
9-Feb-21	Fine	14:30	66.0	69.8	68.3	<Baseline	73.0	75	N
19-Feb-21	Sunny	14:00	66.0	68.5	68.2	<Baseline	73.0	75	N
24-Feb-21	Sunny	14:00	61.7	63.8	62.9	<Baseline	73.0	75	N
4-Mar-21	Cloudy	10:30	61.7	64.3	62.9	<Baseline	73.0	75	N
9-Mar-21	Sunny	14:05	66.0	70.5	68.9	<Baseline	73.0	75	N
16-Mar-21	Sunny	11:40	65.0	69.0	67.2	<Baseline	73.0	75	N
26-Mar-21	Sunny	10:00	62.3	64.4	63.5	<Baseline	73.0	75	N
31-Mar-21	Sunny	14:25	64.5	69.0	67.8	<Baseline	73.0	75	N
9-Apr-21	Sunny	10:50	65.5	69.5	68.3	<Baseline	73.0	75	N
14-Apr-21	Fine	15:40	65.5	70.0	68.7	<Baseline	73.0	75	N
20-Apr-21	Fine	14:05	66.0	70.5	69.3	<Baseline	73.0	75	N
26-Apr-21	Fine	10:30	67.9	70.1	69.1	<Baseline	73.0	75	N

⁺ - Façade measurement

Appendix F Regular Construction Noise Monitoring Results



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Shatin Central Link Contract No. 1123
Entrusted Work for Road P2 & other roads and Slip Road 3

Graphical Presentation of Impact Noise
Monitoring Results

Date: May 2021

Appendix F

APPENDIX G

Event Action Plan

Appendix G Event Action PlanEvent / Action Plan for Construction Dust Monitoring

EVENT	ACTION			
	ET	IEC	ER	Contractor
ACTION LEVEL				
Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and ER; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Check monitoring data submitted by ET; 2. Check Contractor's working method. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Notify Contractor. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)
Exceedance for two or more consecutive samples	1. Identify source; 2. Inform IEC and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; 8. If exceedance stops, cease additional monitoring. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented. (The above actions should be taken within 2 working days after the exceedance is identified)	1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate. (The above actions should be taken within 2 working days after the exceedance is identified)

Appendix G Event Action Plan

EVENT	ACTION			
	ET	IEC	ER	Contractor
LIMIT LEVEL				
Exceedance for one sample	<ol style="list-style-type: none"> 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"> 1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly Implemented. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>
Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"> 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures 	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. 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. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>

Appendix G Event Action Plan**Event and Action Plan for Construction Noise Monitoring**

EVENT	ACTION			
	ET	IEC	ER	Contractor
Exceedance of Action Level	<ol style="list-style-type: none"> 1. Notify ER, IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the IEC and Contractor on remedial measures required; 5. Increase monitoring frequency to check mitigation effectiveness. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"> 1. Review the investigation results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Advise the ER on the effectiveness of the proposed remedial measures. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to IEC and ER; 2. Implement noise mitigation proposals. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>
Exceedance of Limit Level	<ol style="list-style-type: none"> 1. Inform IEC, ER, Contractor and EPD; 2. Repeat measurements to confirm findings; 3. Increase monitoring frequency; 4. Identify source and investigate the cause of exceedance; 5. Carry out analysis of Contractor's working procedures; 6. Discuss with the IEC, Contractor and ER on remedial measures required; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"> 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures; 5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC and ER within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposal if problem still not under control; 5. Stop the relevant portion of works as instructed by the ER until the exceedance is abated. <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>

APPENDIX H

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 I

Quarterly Summary Waste Flow Table
