

AUES JOB NO.: TCS01137/20

TUEN MUN - CHEK LAP KOK LINK
CONTRACT NO. HMWSD 2/2020 (HY) –
ESTABLISHMENT OF LANDSCAPE SOFTWORKS FOR
THE TUEN MUN - CHEK LAP KOK LINK

 3^{RD} Monthly Environmental Monitoring and Audit (EM&A) Report–June 2021

PREPARED FOR HONG KONG LANDSCAPING CO., LTD.

Date Reference No. Prepared By Certified By

12 August 2021 TCS01137/20/600/R0007v2

Martin Li Ben Tam

(Environmental Consultant) (Environmental Team Leader)



Our Ref: TCS01137/20/300/L0019

AECOM

8/F Grand Central Plaza Tower 2, 138 Shatin Rural Committee Road Shatin

Attn: Mr. K P Wong

7 March 2022

By Email

Dear Sir,

Re: Contract No. HMWSD 2/2020 (HY)

Establishment of Landscape Softworks for the Tuen Mun - Chek Lap Kok Link

Environmental Permit No.: EP-354/2009/D

3rd Monthly Environmental Monitoring and Audit (EM&A) Report – June 2021

We write to certify the 3^{rd} Monthly Environmental Monitoring and Audit (EM&A) Report – June 2021 (TCS01137/20/600/R0007v2) in accordance with Condition 4.4 of the Environmental Permit no. EP-354/2009/D.

Should you have any queries or require further information, please feel free to contact us or the undersigned at Tel: 2959-6059 or Fax: 2959-6079.

Yours sincerely, For and on Behalf of

Action-United Environmental Services & Consulting (AUES)

Ben Tam

Environmental Team Leader

c.c. Ramboll (IEC)

Hong Kong Landscaping Co., Ltd

(Contractor)

Mr. Brian Tam Mr. S.C. Wong By email

By email







EXECUTIVE SUMMARY

ES01 This is the 3rd Monthly EM&A Report presenting the monitoring results and inspection findings under the Contract HMWSD 2/2020 (HY) for the period from 1 to 30 June 2021 (hereinafter 'the Reporting Period').

SUMMARY OF EM&A ACTIVITIES FOR THE REPORTING PERIOD

- ES02 The EM&A activities conducted in the Reporting Period under this Contract are summary in below:-
 - Landscape & Visual Monitoring (Establishment period) –0 events
- ES03 The Establishment Period monitoring once per three months for planting works was commenced on 1 June 2020 for the planting area under the contract HY/2012/07 & HY/2013/12 and commenced on 1 February 2021 for the planting area under the contract HY/2017/10 according to the EM&A manual requirement. No establishment period inspection was undertaken during this reporting period.

ENVIRONMENTAL COMPLAINT

ES04 In the Reporting Period, no environmental complaint was received.

ES05 The statistical summary of environmental complaints is summarized in the following table.

Donouting Donied	Environmental Complaint Statistics		
Reporting Period	Frequency	Cumulative	
Since the Contract commencement	0	0	
June 2021	0	0	

NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

ES06 No environmental summons or successful prosecutions were recorded in the Reporting Period.

REPORTING CHANGE

ES07 No reporting changes were made in the Reporting Period.

FUTURE KEY ISSUES

- ES08 The Project TM-CLKL had been commissioning at the end of 2020 and the major construction works under the Project had been completed at the end of March 2021. According to the Project EM&A Manual requirement, operational phase EM&A works will be undertaken for a period of two years after the commission of the project
- ES09 According to the Project EM&A Manual requirement, monitoring for the planting works at a frequency of 3 months interval during the 24-month establishment period is required to make sure the establishment planting works is complied with EMIS requirement, and during the 12-month establishment period, the maintenance operations must be supervised by fully qualified Landscape Resident Site Staff (Registered Landscape Architect or Professional Member of the Hong Kong Institute of Landscape Architects). Subsequent to the 12-month establishment period supervised by the qualified Landscape Resident Site Staff, the supervision from the 13th to the 24th month would be continued by other members of the Project.
- ES10 According to the contract arrangement, the establishment planting area under the Contract HY/2012/07 Zone 1, 3 & 4 and the Contract HY/2013/12 were handover to this contract from December 2020 and June 2021 separately. For the establishment planting area under the Contract HY/2012/07 Zone 2, it was handed over to the ET of Contact HY/2017/10. Therefore, the establishment planting inspection and maintenance works for the establishment planting area under the Contract HY/2012/07 Zone 1, 3 & 4 and the Contract HY/2013/12 responded from this Contract was commenced from December 2020 and June 2021.



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1 INTRODUCTION

1.1 PROJECT BACKGROUND

- 1.1.1 According to the findings of the Northwest New Territories (NWNT) Traffic and Infrastructure Review conducted by the Transport Department, Tuen Mun Road, Ting Kau Bridge, Lantau Link and North Lantau Highway would be operating beyond capacity after 2016. This forecast has been based on the estimated increase in cross boundary traffic, developments in the Northwest New Territories (NWNT), and possible developments in North Lantau, including the Airport developments, the Lantau Logistics Park (LLP) and the Hong Kong Zhuhai Macao Bridge (HZMB). In order to cope with the anticipated traffic demand, two new road sections between NWNT and North Lantau Tuen Mun Chek Lap Kok Link (TM-CLKL) and Tuen Mun Western Bypass (TMWB) are proposed.
- 1.1.2 Hong Kong Landscaping Co., Ltd. (hereafter "HKL") is commissioned by the Highways Department (HyD) as the Main Contractor of the Contract No. HMWSD 2/2020 (HY) Establishment of Landscape Softworks for the Tuen Mun Chek Lap Kok Link ((hereafter "the Contract") and this Contract is part of the Tuen Mun Chek Lap Kok Link (TM-CLK Link Project).TM-CLK Link Project is a Designated Project under Environmental Permit number EP-354/2009/D issued on 13 March 2015. The layout Plan of the Project and the Contract are showed in *Appendix A and B* respectively.
- 1.1.3 The construction works of the Contract mainly include:
 - a. Maintenance the approx. 33ha planting area of the Project during the establishment period.
- 1.1.4 The TM-CLKL had been commissioning at the end of 2020 and the major construction works under the Project had been completed at the end of March 2021. According to the Project EM&A Manual requirement, operational phase EM&A works will be undertaken for a period of two years after the commission of the project.
- 1.1.5 This is 3rd monthly EM&A report under the Contract HMWSD 2/2020 (HY) presenting the monitoring results and inspection findings for period from 1 to 30 June 2021.

1.2 REPORT STRUCTURE

- 1.2.1 The Monthly Environmental Monitoring and Audit (EM&A) Report is structured into the following sections:-
 - Section 1 Introduction
 - **Section 2** Summary of Monitoring Requirements under the Contract
 - **Section 3** Landscape and Visual
 - Section 4 Environmental Complaints and Non-Compliance
 - **Section 5** Conclusions and Recommendations

1.3 CONTRACT ORGANIZATION

1.3.1 The Contract organization and contact details of key personnel are shown in *Appendix C*.



2 SUMMARY OF MONITORING REQUIREMENTS UNDER THE CONTRACT

2.1 GENERAL

- 2.1.1 In accordance with the Project EM&A Manual requirements, the environmental aspects under the Project shall be included air quality, ecological, cultural heritage, landscape and visual, landfill gas and site inspection.
- 2.1.2 A summary of EM&A requirements under the contract are presented in the sub-sections below. Should non-compliance of the environmental quality criteria occurs, remedial actions will be triggered according to the Event and Action Plan which presented in *Appendix D*.

2.2 ENVIRONMENTAL ASPECTS

Air

- 2.2.1 According to the Contract nature is maintenance the planting area of the Project during the establishment period in the operational phase. No specific EM&A requirement for air quality related to the establishment of landscape softworks was identify.
- 2.2.2 The scopes of works under this Contract do not involve any of works listed under Section 4.4.1.1 of the approved EIA Report. Vehicles travel under this contract was carried out in paved area. Therefore, fugitive dust emission from the contract would be limited and no unacceptable air quality impact would be expected. No specific mitigation measure and monitoring would be required.

Noise

- 2.2.3 According to the Contract nature is maintenance the planting area of the Project during the establishment period in the operational phase. No unacceptable noise impact would be expected from the contract. No mitigation measure would be required under the approved EIA Report. No specific EM&A requirement for noise impact related to the establishment of landscape softworks was identify.
- 2.2.4 Most of the works under this contract would be conducted manually, with limited use of PME for delivery material on site and watering the planting area along the road side. Therefore, no unacceptable noise impact would be expected. No specific mitigation measure and monitoring would be required.

Water Quality

- 2.2.5 According to the Contract nature is maintenance the planting area of the Project during the establishment period in the operational phase. No specific EM&A requirement for water quality related to the establishment of landscape softworks was identify.
- 2.2.6 All planting area under this contract area are land-based, no major discharge would be expected from the establishment planting maintenance works. Therefore, no direct or indirect impact on marine water quality would be expected. No specific mitigation measure and monitoring would be required.

Ecology

- 2.2.7 According to the Contract nature is maintenance the planting area of the Project during the establishment period in the operational phase. No specific EM&A requirement for ecology related to the establishment of landscape softworks was identify.
- 2.2.8 No site clearance and associated habitat loss would be required under this contract. Moreover, all planting area under this contract area are land-based, no direct or indirect impact on the marine ecology would be expected. Therefore, no specific mitigation measure and monitoring would be required.



Landscape and Visual

Monitoring of the planting works during the 24-month Establishment period after completion of the construction works should be carried out. Establishment Works Inspection should be carried out once every 3 months to make sure the establishment planting works is complied with EMIS requirement. For the planting area under the Contract HY/2012/07, the first 6-month establishment period inspection and maintenance will be taken by the original Contract's ET and the main Contractor under the contract. For another Contract HY/2013/12 and HY/2017/10, the first 12-month establishment period inspection and maintenance will be taken by the original Contract's ET and the main Contractor under the contract. After the first 6 month or year establishment period, the maintenance and inspection works will be handover to the contract HMWSD 2/2020 (HY) except the planting area under the Contract HY/2012/07 Zone 2. The summary of Establishment inspection for the Project is shown in *Table 2-1*.

Table 2-1 Summary of Establishment inspection for the Project

Contract Area	Establishment Monitoring Commenced	Inspection taken under the contract HMWSD 2/2020 (HY)	Next Quarter of Establishment Monitoring
HY/2012/07 (Zone 1, 3 & 4)	June 2020	December 2020	March to May 2021 (4 th Quarter)
HY/2012/07 (Zone 2)	June 2020	TBA	March to May 2021 (4 th Quarter)
HY/2013/12	June 2020	June 2021	March to May 2021 (4 th Quarter)
HY/2017/10	February 2021	TBA	May to July 2021 (2 nd Quarter)

Cultural Heritage

- 2.2.10 According to the Contract nature is maintenance the planting area of the Project during the establishment period in the operational phase. No specific EM&A requirement for cultural heritage related to the establishment of landscape softworks was identify.
- 2.2.11 No major structural or civil work would be conducted under this contract. Moreover, all planting area are set back from the cultural heritage zone Grave G1 more than 10m. Therefore, no cultural heritage impact would be expected under this contract. No mitigation measure and monitoring would be required.

Landfill Gas

- 2.2.12 According to the Contract nature is maintenance the planting area of the Project during the establishment period in the operational phase. No specific EM&A requirement for landfill gas related to the establishment of landscape softworks was identify.
- 2.2.13 No major excavation work would be conducted under this contract. Only minor hand digging works will be conducted while tree replacement works. Therefore, no landfill gas hazard would be expected under this contract. No mitigation measure and monitoring would be required.

Waste Management

- 2.2.14 According to the Contract nature is maintenance the planting area of the Project during the establishment period in the operational phase. No specific EM&A requirement for Waste Management related to the establishment of landscape softworks was identify.
- 2.2.15 All planting area under this contract area are land-based, no dredged sediment, excavated C&D material, C&D waste, chemical waste and sewage would be generated under this Contract. Only limited level of dead plant would be generated from works during maintenance of the planting area and would be easily controlled by standard waste management practice.



No specific mitigation measure would be required.

Inspection and Audit

2.2.16 According to the Contract nature is maintenance the planting area of the Project during the establishment period in the operational phase. No construction works would be taken under this contract. Moreover, no potential environmental issue had been identified in the previous sections. No regular site inspections would be required.

2.3 MONITORING SCHEDULE

2.3.1 The monitoring schedule for landscape &visual for the present reporting period is presented in Appendix E.



3 LANDSCAPE AND VISUAL

3.1 GENERAL

- 3.1.1 According to the Project EM&A Manual requirement, monitoring for the planting works at a frequency of 3 months interval during the 24-month establishment period is required to make sure the establishment planting works is complied with EMIS requirement, and during the 12-month establishment period, the maintenance operations must be supervised by fully qualified Landscape Resident Site Staff (Registered Landscape Architect or Professional Member of the Hong Kong Institute of Landscape Architects). Subsequent to the 12-month establishment period supervised by the qualified Landscape Resident Site Staff, the supervision from the 13th to the 24th month would be continued by other members of the Project. The updated EMIS for the Contract is shown in *Appendix G*.
- 3.1.2 According to the contract arrangement, the establishment planting area under the Contract HY/2012/07 Zone 1, 3 & 4 and the Contract HY/2013/12 were handover to this contract from December 2020 and June 2021 separately. For the establishment planting area under the Contract HY/2012/07 Zone 2, it was handed over to the ET of Contact HY/2017/10. Therefore, the establishment planting inspection and maintenance works for the establishment planting area under the Contract HY/2012/07 Zone 1, 3 & 4 and the Contract HY/2013/12 responded from this Contract was commenced from December 2020 and June 2021.
- 3.1.3 All the establishment inspection method including checklist and zoning plan under this Contract was follow the methodology prepared by original Contract's ET which approved by EPD
- 3.1.4 In the Reporting Period, no site inspection for landscape and visual mitigation measures under establishment works was undertaken. The details of Establishment inspection for the Project during the reporting period are shown in *Table 3-1* and the Establishment inspection checklist is shown in *Appendix F*.

Table 3-1 Details of Establishment Inspection for the Project during the Reporting Period

Planting Area	Respond Party	Quarter of Establishment Monitoring	Inspection Date
HY/2012/07 (Zone 1, 3 & 4)	ET of the Contract HMWSD 2/2020 NA (HY)		NA
HY/2012/07 (Zone 2)	ET of the Contract HY/2017/10	NA	NA
HY/2013/12	ET of the Contract HMWSD 2/2020 (HY)	NA	NA
HY/2017/10	ET of the Contract HY/2017/10	NA	NA



4 ENVIRONMENTAL COMPLAINT AND NON-COMPLIANCE

4.1 ENVIRONMENTAL COMPLAINT, SUMMONS AND PROSECUTION

- 4.1.1 In the Reporting Period, no environmental complaint, summons and prosecution under the EM&A Programme was lodged.
- 4.1.2 The statistical summary table of environmental complaint, summons and prosecution are presented in *Tables 4-1, 4-2 and 4-3*.

Table 4-1 Statistical Summary of Environmental Complaints

	Environmental Complaint Statistics					
Reporting Period	Frequency	Cumulative	Complaint Nature			
	rrequency Cum	Cumulative	Air	Noise	Water	Others
June 2021	0	0	NA	NA	NA	NA

Table 4-2 Statistical Summary of Environmental Summons

	Environmental Summons Statistics				
Reporting Period	Everyoner	C1-4:	Complaint Nature		
	Frequency Cumular	Cumulative	Air	Noise	Water
June 2021	0	0	NA	NA	NA

Table 4-3 Statistical Summary of Environmental Prosecution

	Environmental Prosecution Statistics				
Reporting Period	Frequency	Cumulative	Complaint Nature		
	requency		Air	Noise	Water
June 2021	0	0	NA	NA	NA

4.1.3 In the Reporting Period, no warning letter related to environmental issue was received from the EPD or HyD.



5 CONCLUSIONS AND RECOMMENDATIONS

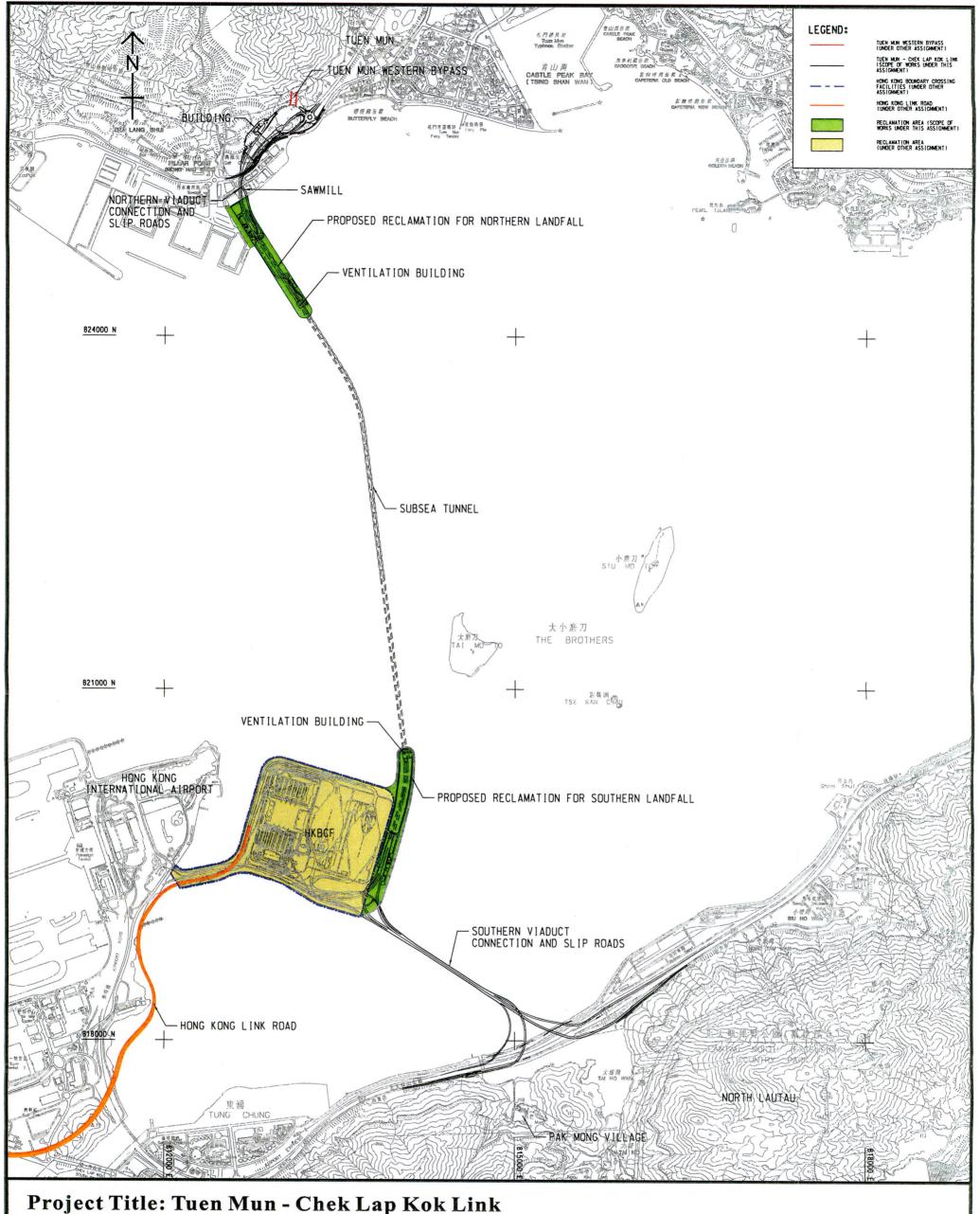
5.1 CONCLUSIONS

- 5.1.1 This is 3rd monthly EM&A report presenting the monitoring results and inspection findings under the Contract HMWSD 2/2020 (HY) for the period of 1 to 30 June 2021.
- 5.1.2 There is no air quality, noise, water quality, ecology, cultural heritage and landfill gas monitoring was required for the contract.
- 5.1.3 The Establishment Period monitoring once per three months for planting works was commenced on 1 June 2020 for the planting area under the contract HY/2012/07 & HY/2013/12 and commenced on 1 February 2021 for the planting area under the contract HY/2017/10 according to the EM&A manual requirement. No establishment period inspection was undertaken during this reporting period.
- 5.1.4 According to the contract arrangement, the establishment planting area under the Contract HY/2012/07 Zone 1, 3 & 4 and the Contract HY/2013/12 were handover to this contract from December 2020 and June 2021 separately. Therefore, the establishment planting inspection and maintenance works for those areas responded from this Contract was commenced from December 2020 and June 2021.
- 5.1.5 In the Reporting Period, no environmental complaint was received.
- 5.1.6 No notifications of summons, or successful prosecution were received during the Reporting Period.



Appendix A

Project Layout Plan



Project Title: Tuen Mun - Chek Lap Kok Link 工程項目名稱: 屯門至赤鱲角連接路

Project Location 工程項目位置

(Plan originated from Figure 3.1 of Approved EIA Report reference no.: AEIAR-146/2009) (圖則源自已批准的環境影響評估報告編號AEIAR-146/2009圖 3.1)

Environmental Protection Department 環境保護署



Environmental Permit No.: EP-354/2009/D

環境許可證編號:EP-354/2009/D

Figure 1 圖 1

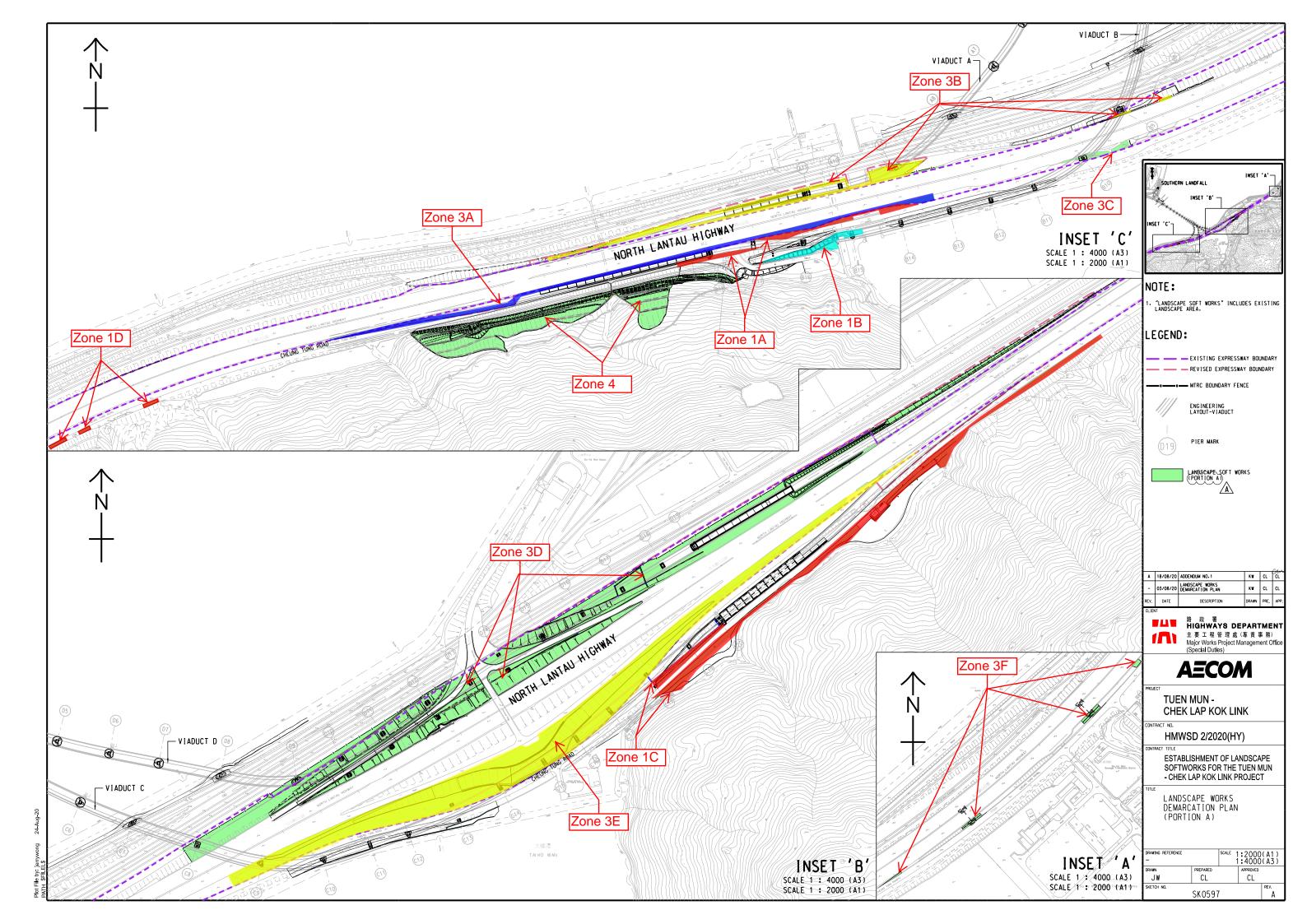


Appendix B

Layout Plan of the Contract



Planting Area under Contract HY/2012/07





Contract No. HY/2017/10
TUEN MUN-CHEK LAP KOK LINK
- NORTHERN CONNECTION TUNNEL BUILDINGS,
ELECTRICAL AND MECHANICAL WORKS

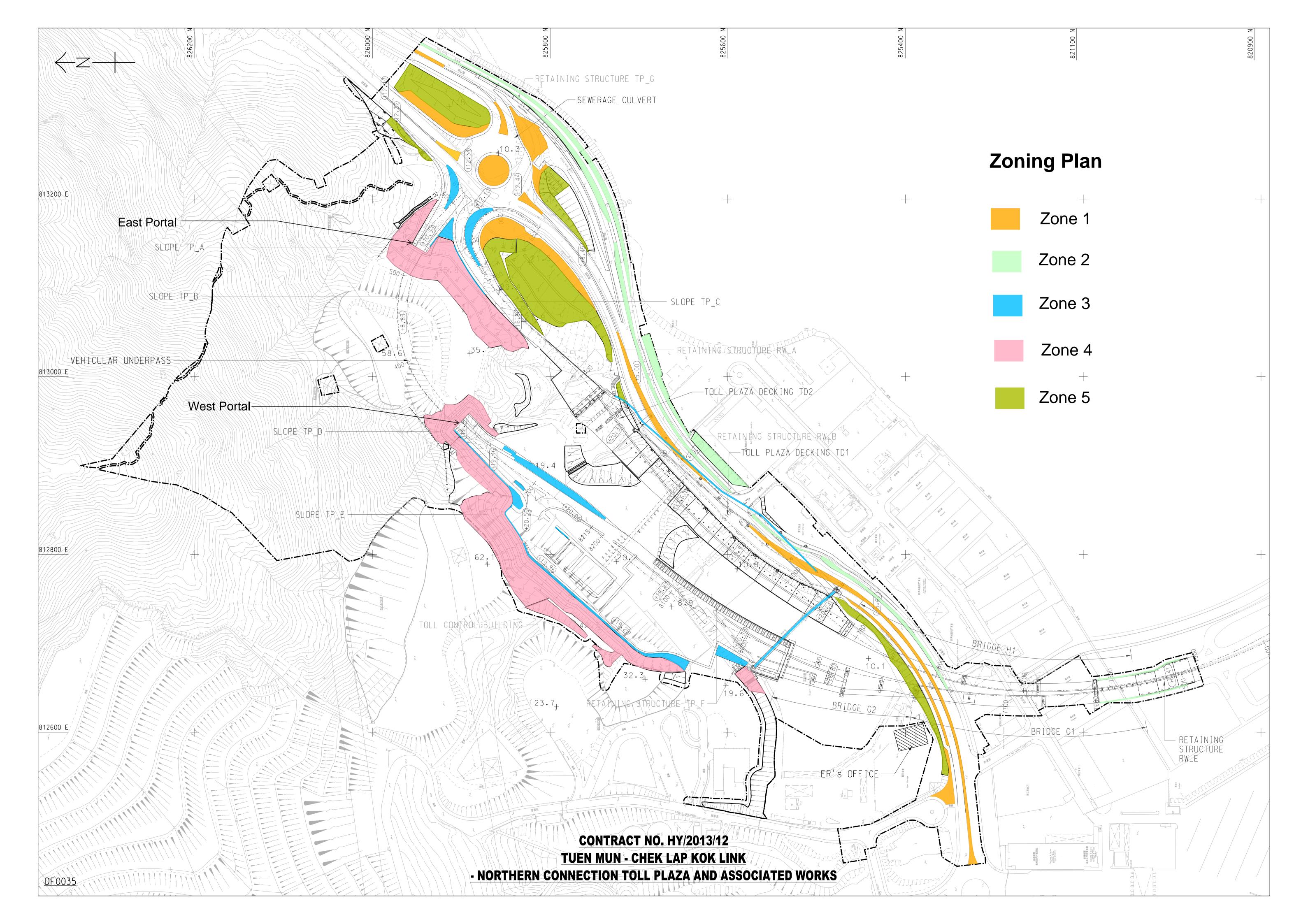
ZONING PLAN – LANDSCAPE WORKS MONITORING (ESTABLISHMENT WORKS)

Note: Planting works were completed under Contract No. HY/2012/07.

Monitoring of the establishment works continue under Contract No. HY/2017/10.



Planting Area under Contract HY/2013/12





Planting Area under Contract HY/2017/10

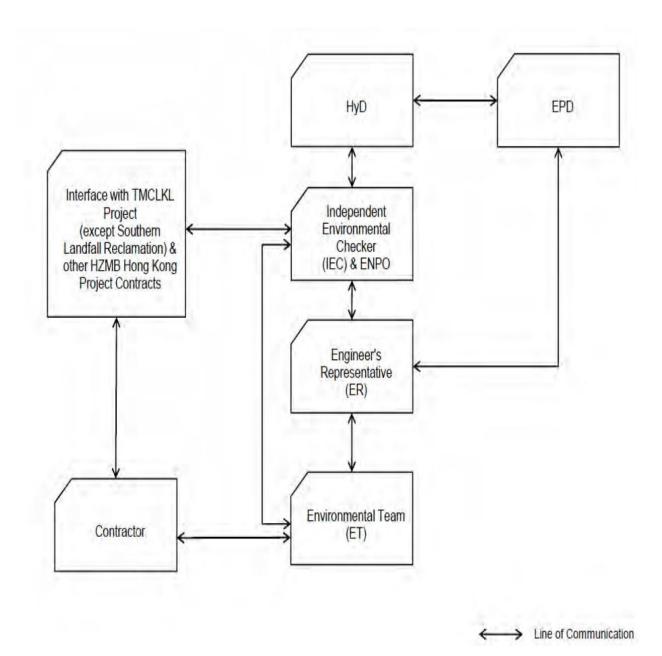




Appendix C

Organization of the Contract





Project Organization chart



Contact Details of Key Personnel for the Contract HMWSD 2/2020 (HY)

Organization	Project Role	Name of Key Staff	Tel No	Fax No.
HyD	Employer	Mr. Tony Wong	2762 4982	3188 6614
AECOM	Principal Resident Engineer	Mr. S.W. Fok	2293 6200	2218 7399
AECOM	Senior Resident Landscape Architect	Ms. Candy Lau	2293 6200	2218 7399
AECOM	Resident Engineer (S&E)	Mr. Kelvin Yeung	2293 6200	2218 7399
Ramboll	Environmental Project Office Leader (ENPO Leader)	Mr. YH Hui	3465 2850	3465 2899
Ramboll	Independent Environmental		9700 6767	3465 2899
HKL	Project Manager	Mr. S.C. Wong	2388 6332	2385 7911
AUES	Environmental Team Leader	Mr. Ben Tam	2959 6059	2959 6079
AUES	Environmental Consultant	Miss Nicola Hon	2959 6059	2959 6079
AUES	Environmental Consultant	Mr. Martin Li	2959 6059	2959 6079

Legend:

HyD (Employer) –Highways Department

AECOM (Engineer) – AECOM Asia Co. Ltd.

HKL (Main Contractor) - Hong Kong Landscaping Co., Ltd.

Ramboll (ENPO and IEC) - Ramboll Hong Kong Limited

AUES (ET) – Action-United Environmental Services & Consulting



Appendix D

Event and Action Plan



Event and Action Plan for Landscape and Visual Impact

EVENT	ACTION					
ACTION LEVEL	ET	IEC	ER	Contractor		
Design Check	Check final design conforms to the requirements of EP and prepare report.	Check report. Recommend remedial design if necessary	Undertake remedial design if necessary			
Non- conformity on one occasion	Identify Source Inform IEC and ER Discuss remedial actions with IEC, ER and Contractor Monitor remedial actions until rectification has been completed	 Check report Check Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise ER on effectiveness of proposed remedial measures. Check implementation of remedial measures 	Notify Contractor Ensure remedial measures are properly implemented	Amend working methods Rectify damage and undertake any necessary replacement		
Repeated Non-conformity	Identify Source Inform IEC and ER Increase monitoring frequency Discuss remedial actions with IEC, ER and Contractor Monitor remedial actions until rectification has been completed If nonconformity stops, cease additional monitoring	 Check monitoring report Check Contractor's working method Discuss with ET and Contractor on possible remedial measures Advise ER on effectiveness of proposed remedial measures Supervise implementation of remedial measures 	Notify Contractor Ensure remedial measures are properly implemented	Amend working methods Rectify damage and undertake any necessary replacement		

ET – Environmental Specialist, IEC – Independent Environmental Checker, ER – Engineer's Representative



Appendix E

Monitoring Schedule



Establishment Inspection Schedule for this Reporting Period

	Date	Planting Area under HY/2012/07 (Zone 1, 3 & 4)	Planting Area under HY/2012/07 (Zone 2)	Planting Area under HY/2013/12	Planting Area under HY/2017/10
Tue	1-June-21				
Wed	2-June-21				
Thu	3-June-21				
Fri	4-June-21				
Sat	5-June-21				
Sun	6-June-21				
Mon	7-June-21				
Tue	8-June-21				
Wed	9-June-21				
Thu	10-June-21				
Fri	11-June-21				
Sat	12-June-21				
Sun	13-June-21				
Mon	14-June-21				
Tue	15-June-21				
Wed	16-June-21				
Thu	17-June-21				
Fri	18-June-21				
Sat	19-June-21				
Sun	20-June-21				
Mon	21-June-21				
Tue	22-June-21				
Wed	23-June-21				
Thu	24-June-21				
Fri	25-June-21				
Sat	26-June-21				
Sun	27-June-21				
Mon	28-June-21				
Tue	29-June-21				
Wed	30-June-21				

√	Monitoring Day
	Sunday or Public Holiday



Establishment Inspection Schedule for the Next Reporting Period

Date		Planting Area under HY/2012/07 (Zone 1, 3 & 4)	Planting Area under HY/2012/07 (Zone 2)	Planting Area under HY/2013/12	Planting Area under HY/2017/10
Thu	1-July-21				
Fri	2-July-21				
Sat	3-July-21				
Sun	4-July-21				
Mon	5-July-21				
Tue	6-July-21				
Wed	7-July-21				
Thu	8-July-21				
Fri	9-July-21				
Sat	10-July-21				
Sun	11-July-21				
Mon	12-July-21				
Tue	13-July-21				
Wed	14-July-21				
Thu	15-July-21				
Fri	16-July-21				
Sat	17-July-21				
Sun	18-July-21				
Mon	19-July-21				
Tue	20-July-21				
Wed	21-July-21				
Thu	22-July-21				
Fri	23-July-21				
Sat	24-July-21				
Sun	25-July-21				
Mon	26-July-21				
Tue	27-July-21				✓
Wed	28-July-21				
Thu	29-July-21				
Fri	30-July-21				✓
Sat	31-July-21				

✓	Monitoring Day
	Sunday or Public Holiday



Appendix F

Checklist for Establishment Works Monitoring



(No inspection was undertaken in this reporting period)



Appendix G

Environmental Mitigation and Enhancement Measures Implementation Schedule (EMIS)

CONTRACT NO. HMWSD 2/2020 (HY) ESTABLISHMENT OF LANDSCAPE SOFTWORKS FOR THE TUEN MUN - CHEK LAP KOK LINK ENVIORNMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Landscap	e and Visu	al							
EIA	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation	Relevant Standard or	Implementation Stages			Status
reference	reference	22. (2. (2. (2. (2. (2. (2. (2. (2. (2.	Zoowoon, ziming	Agent	Requirement	D	C	0	2000
10.9	7.6	Existing trees on boundary of the Project Area shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. (Tree protection measures will be detailed at Tree Removal Application stage) (CM1)	All areas/detailed design/during construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	Trees unavoidably affected by the works shall be transplanted where practical. Trees will be transplanted straight to their final receptor site and not held in a temporary nursery. A detailed Tree Transplanting Specification shall be provided in the Contract Specification. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme (CM2)	All areas/detailed design/during construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	Hillside and roadside screen planting to proposed roads, associated structures and slope works (CM3)	All areas/detailed design/during Construction/ post construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material (in earth tone) (CM4)	All areas/detailed design/during Construction/ post construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	Screening of construction works by hoardings around works area in visually unobtrusive colours, to screen works (CM5)	All areas/detailed design/ during Construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A

CONTRACT NO. HMWSD 2/2020 (HY) ESTABLISHMENT OF LANDSCAPE SOFTWORKS FOR THE TUEN MUN - CHEK LAP KOK LINK ENVIORNMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Landscap	e and Visu	al							
EIA	EM&A Manual	Environmental Protection Measures	Location/ Timing	Implementation	Relevant Standard or	Implementation Stages			Status
reference	reference			Agent	Requirement	D	C	0	35 555 553
10.9	7.6	Control night-time lighting and glare by hooding all lights (CM6)	All areas/detailed design/ during Construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	Ensure no run-off into water body adjacent to the Project Area (CM7)	All areas/detailed design/ during Construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	Avoidance of excessive height and bulk of buildings and structures (CM8)	All areas/detailed design/ during Construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	Recycle/Reuse all felled trees and vegetation, e.g. mulching (CM9)	All areas/detailed design/ during Construction	Design Consultant/ Contractor	TMEIA	Y	Y		N/A
10.9	7.6	Compensatory tree planting shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006 (CM10)	All areas/detailed design/ during Construction	Design Consultant/ Contractor	TMEIA	Y	Y		√
10.9	7.6	Re-vegetation of affected woodland/shrubland with native species (OM1)	All areas/detailed design/during Construction/ post construction	Design Consultant/ Contractor	TMEIA	Y	Y	Y	maintenance agent : HyD
10.9	7.6	Tall buffer screen tree / shrub / climber planting where appropriate should be incorporated to soften hard engineering structures and facilities (OM2)	All areas/detailed design/during Construction/ post construction	Design Consultant/ Contractor	TMEIA	Y	Y	Y	maintenance agent : HyD & LCSD
10.9	7.6	Streetscape elements (e.g. paving, signage, street furniture, lighting etc.) shall be sensitively designed in a manner that responds to the local context, and minimises potential negative landscape and visual impacts. Lighting units should be directional and	All areas/detailed design/during Construction/ post construction	Design Consultant/ Contractor	TMEIA	Y	Y	Y	N/A

CONTRACT NO. HMWSD 2/2020 (HY)

ESTABLISHMENT OF LANDSCAPE SOFTWORKS FOR THE TUEN MUN - CHEK LAP KOK LINK ENVIORNMENTAL MITIGATION AND ENHANCEMENT MEASURE IMPLEMENTATION SCHEDULE

Landscap	Landscape and Visual								
EIA	EM&A Manual		Location/ Timing	Implementation	Relevant Standard or	Implementation Stages			Status
reference	reference	Divironmental Protection Measures	Docution/ Timing	Agent	Requirement	D	C	О	Status
		minimize unnecessary light spill (OM3)							
10.9	7.6	Structure, ornamental tree / shrub / climber planting should be provided along roadside amenity strips, central dividers and newly formed slopes to enhance the townscape quality and further greenery enhancement (OM4)	All areas/detailed design/ during Construction/ post construction	Design Consultant/ Contractor	TMEIA	Y	Y	Y	maintenance agent : HyD & LCSD
10.9	7.6	Aesthetically pleasing design (visually unobtrusive and non-reflective) as regard to the form, material and finishes shall be incorporated to all buildings, engineering structures and associated infrastructure facilities (OM5)	All areas/detailed design/ during Construction/ post construction	Design Consultant/ Contractor	TMEIA	Y	Y	Y	N/A
10.9	7.6	Avoidance of excessive height and bulk of buildings and structures (OM6)	All areas/detailed design/during Construction/ post construction	Design Consultant/ Contractor	TMEIA	Y	Y	Y	N/A

Remarks:

✓ Compliance of Mitigation Measures

<> Compliance of Mitigation Measures but need improvement.

× Non-compliance of Mitigation Measures

▲ Non-compliance of Mitigation Measures but rectified by Contractor

 \triangle Deficiency of Mitigation Measures but rectified by Contractor

N/A Not Applicable in Reporting Period

Legend: D=Design, C=Construction, O=Operation

Note: Funding Agent for all mitigation measures will be the Highways Department of the Hong Kong SAR Government



Appendix H

Cumulative Statistics on Exceedance and Complaint



Table H-1 Statistical Summary of Environmental Complaints

	Environmental Complaint Statistics							
Reporting Period	Frequency	Cumulative	Complaint Nature					
			Air	Noise	Water	Others		
June 2021	0	0	NA	NA	NA	NA		
Cumulative since Contract	0	0	NA	NA	NA	NA		
commencement	U	U	INA	NA	INA	INA		

Table H-2 Statistical Summary of Environmental Summons

	Environmental Summons Statistics						
Reporting Period	Emagramar	Cumulativa	Complaint Nature				
	rrequency	Cumulative	Air	Noise	Water		
June 2021	0	0	NA	NA	NA		
Cumulative since	0	0	NA	NA	NA		
Contract commencement							

Table H-3 Statistical Summary of Environmental Prosecution

	Environmental Prosecution Statistics						
Reporting Period	Emagramar	Cumulativa	Complaint Nature				
	Frequency	Cumulative	Air	Noise	Water		
June 2021	0	0	NA	NA	NA		
Cumulative since Contract commencement	0	0	NA	NA	NA		