

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

4th Monthly Environmental Monitoring and Audit (EM&A) Report-July 2021

PREPARED FOR HONG KONG LANDSCAPING CO., LTD.

Date Reference No. Prepared By Certified By

18 March 2022 TCS01137/20/600/R0009v2

Martin Li

(Environmental Consultant) (Environmental Team Leader)

Ben Tam

Version	Date	Remarks
1	24 September 2021	First Submission
2	18 March 2022	Amended according to the IEC's comment on 17 March 2022



Our Ref: TCS01137/20/300/L0024

AECOM

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

Attn: Mr. K P Wong

6 April 2022 By Email

Dear Sir,

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

4th Monthly Environmental Monitoring and Audit (EM&A) Report – July 2021

We write to certify the 4th Monthly Environmental Monitoring and Audit (EM&A) Report – July 2021 (TCS01137/20/600/R0009v2) 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

Ramboll (IEC) c.c.

Mr. Brian Tam

By email

Hong Kong Landscaping Co., Ltd Mr. S.C. Wong By email





Ref.: HYDHZMBEEM00_0_8702L.22

06 April 2022

By Fax (2293 6300) and By Post

AECOM Asia Co. Ltd.
Supervising Officer Representative's Office
No. 8 Mong Fat Street, Tuen Mun,
New Territories, Hong Kong

Attention: Mr. K P Wong

Dear Sir,

Re: Agreement No. CE 48/2011 (EP)

Environmental Project Office for the

HZMB Hong Kong Link Road, HZMB Hong Kong Boundary Crossing Facilities, and

Tuen Mun-Chek Lap Kok Link - Investigation

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

4th Monthly EM&A Report for July 2021 (EP-354/2009/D)

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for July 2021 (ET's ref.: "TCS01137/20/600/R0009v2" dated 18 March 2022) certified by ET Leader and provided to us via e-mail on 18 March 2022.

Please be informed that we have no adverse comments on the captioned submission. We write to verify the captioned submission in accordance with Condition 4.4 of EP-354/2009/D.

Thank you very much for your attention and please feel free to contact the undersigned or the ENPO Leader, Mr. Y H Hui, should you require further information.

Yours faithfully, For and on behalf of Ramboll Hong Kong Limited

Brian Tam

Independent Environmental Checker

Tuen Mun - Chek Lap Kok Link

c.c.

 HyD
 Attn.: Mr. Stephen Wong
 (By Fax: 3188 6614)

 HyD
 Attn.: Mr. Tony Wong
 (By Fax: 3188 6614)

 AUES
 Attn.: Mr. Ben Tam
 (By Fax: 2959 6079)

 HKL
 Attn.: Mr. S C Wong
 (By Fax: 2385 7911)



EXECUTIVE SUMMARY

ES01 This is the 4th Monthly EM&A Report presenting the monitoring results and inspection findings under the Contract HMWSD 2/2020 (HY) for the period from 1 to 31 July 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 by this Contract during this reporting period, but **one** establishment period inspection was undertaken by the ET of Contract HY/2017/10 in this reporting period for the planting area under HY/2017/10.

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.

Domantina Davia d	Environmental Complaint Statistics		
Reporting Period	Frequency	Cumulative	
Since the Contract commencement	0	0	
July 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 4th monthly EM&A report under the Contract HMWSD 2/2020 (HY) presenting the monitoring results and inspection findings for period from 1 to 31 July 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	June to August 2021 (5 th Quarter)
HY/2012/07 (Zone 2)	June 2020	TBA	June to August 2021 (5 th Quarter)
HY/2013/12	June 2020	June 2021	June to August 2021 (5 th Quarter)
HY/2017/10	February 2021	TBA	August to October 2021 (3 rd 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, One establishment period inspection was undertaken during this reporting period for the planting area HY/2017/10. 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 (HY)	NA	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	May to July 2021 (2 nd Quarter)	27 & 30 July 2021	



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			
			Air	Noise	Water	Others
July 2021	0	0	NA	NA	NA	NA

 Table 4-2
 Statistical Summary of Environmental Summons

	Environmental Summons Statistics					
Reporting Period	Frequency	Cumulative	Complaint Nature			
			Air	Noise	Water	
July 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	
July 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

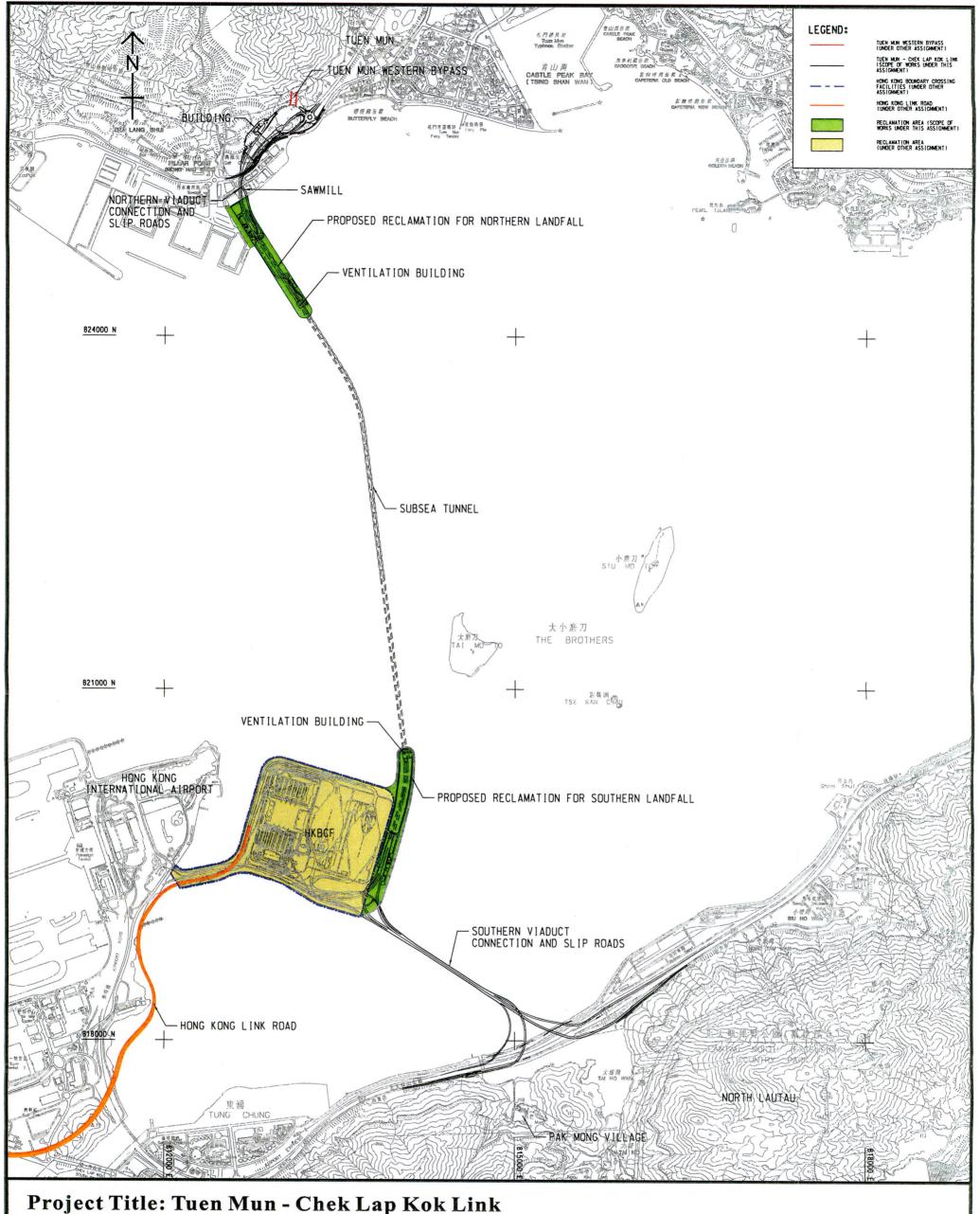
5.1 CONCLUSIONS

- 5.1.1 This is 4th monthly EM&A report presenting the monitoring results and inspection findings under the Contract HMWSD 2/2020 (HY) for the period of 1 to 31 July 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. One establishment period inspection was undertaken during this reporting period for the planting area HY/2017/10.
- 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

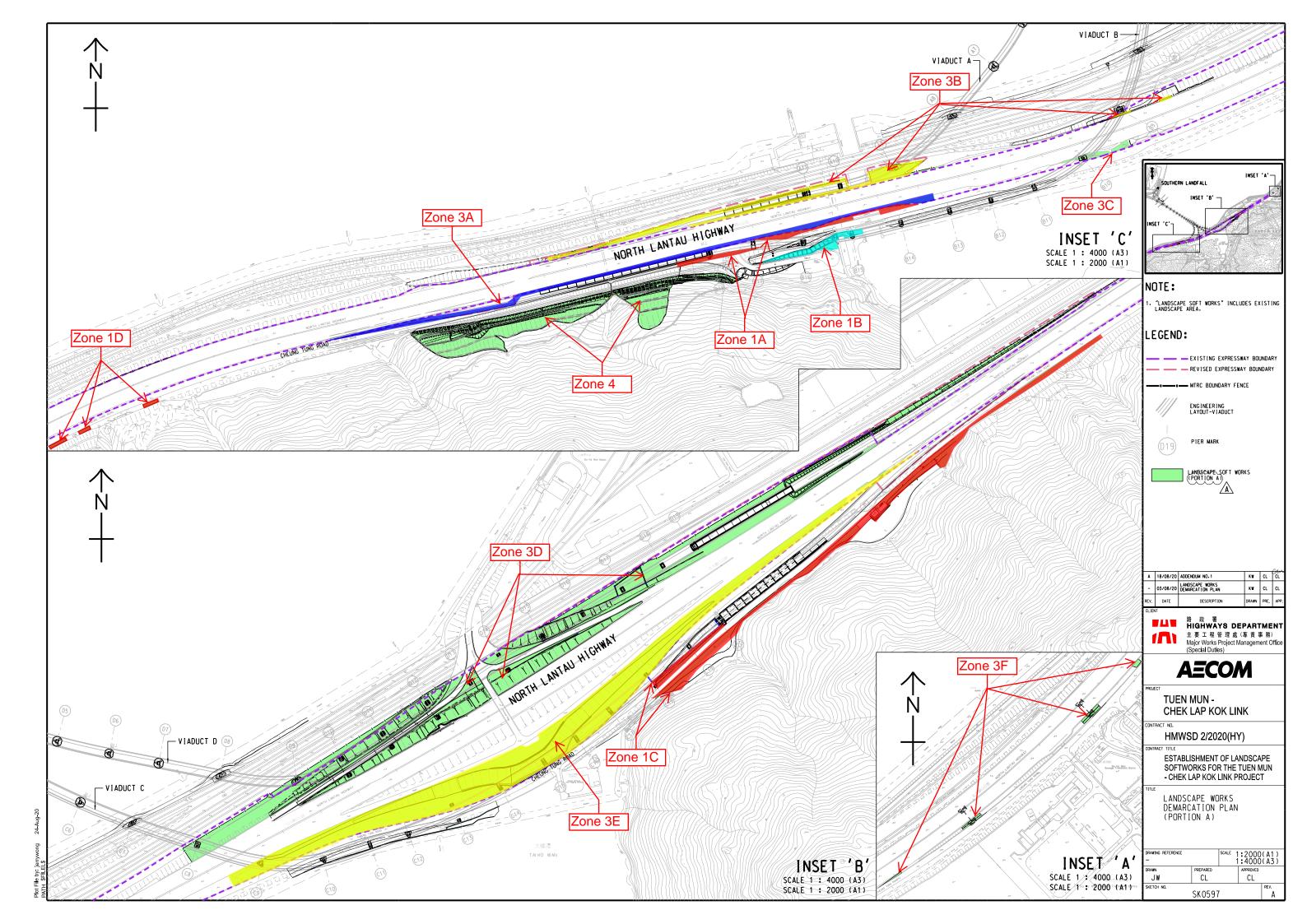


Appendix B

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

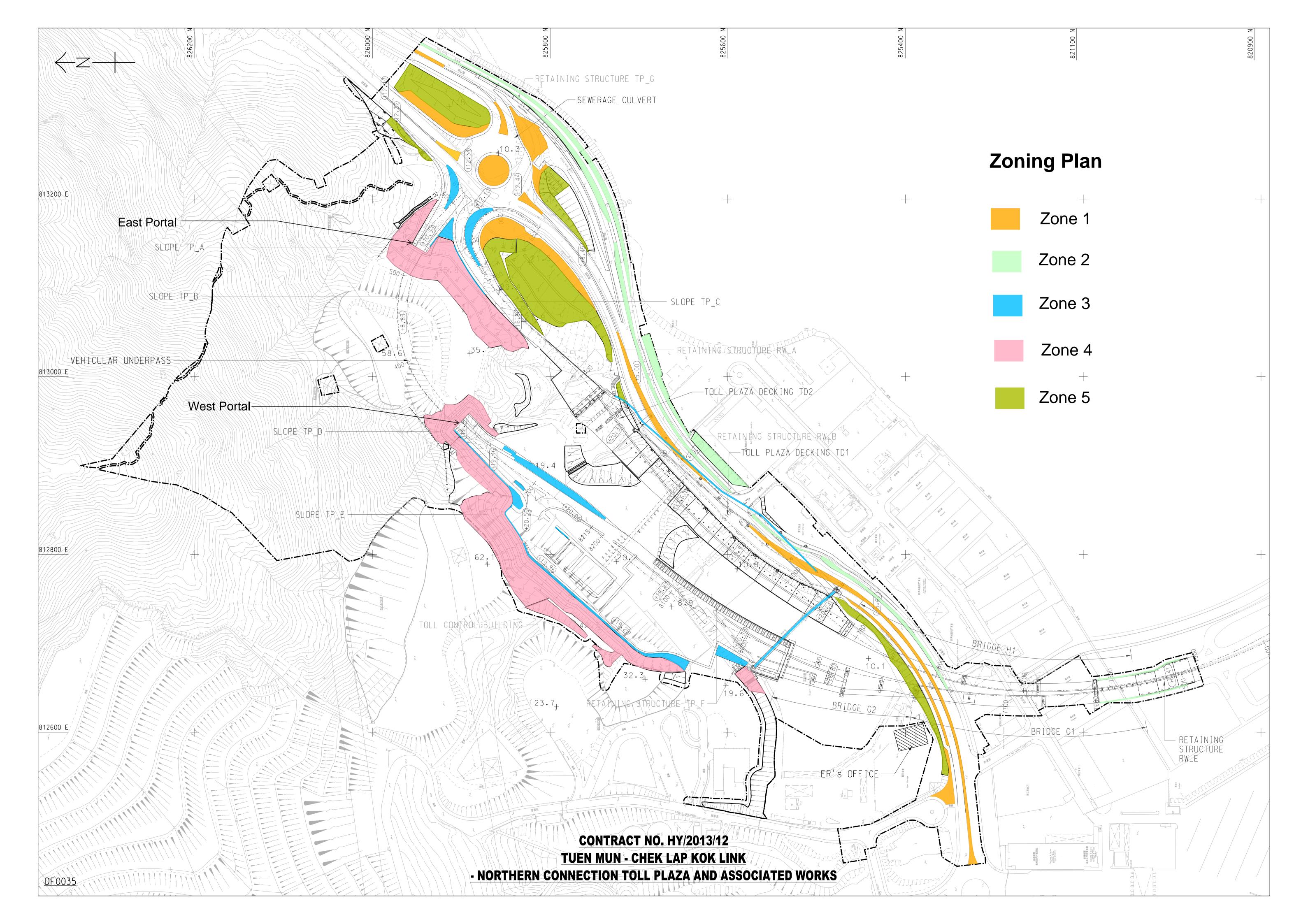
ZONING PLAN – LANDSCAPE WORKS MONITORING (ESTABLISHMENT WORKS)

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

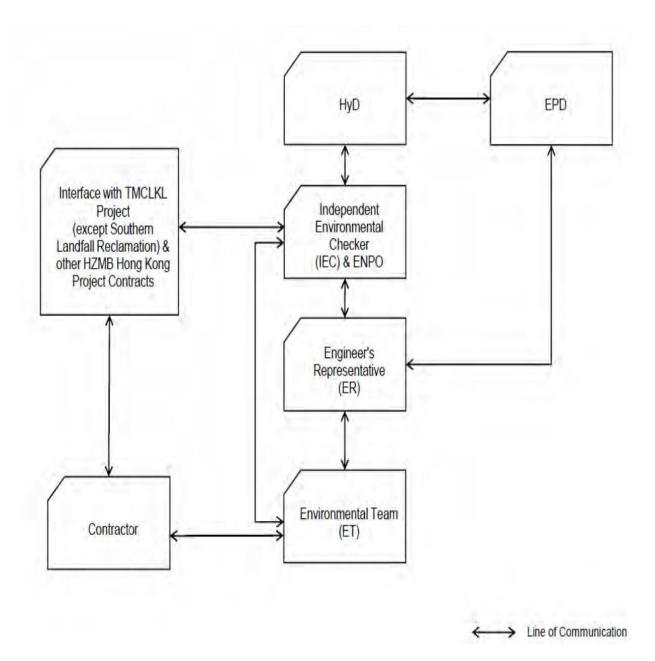




Appendix C

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	HyD Employer		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 Checker (IEC)	Mr. Brian Tam (Since 12 April 2021)	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		ACTI	ON	
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
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				

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

✓	Monitoring Day
	Sunday or Public Holiday



Appendix F

Checklist for Establishment Works Monitoring

6 August 2021

Our ref: 0463091_89_Establishment L&V Checklist (SLF_NLF_MCB) May-Jul 21.docx

By email

Mr Brian Tam Independent Environmental Checker Ramboll Hong Kong Limited 21/F, BEA Harbour View Centre 56 Gloucester Road Wan Chai, Hong Kong

Dear Sir,

Contract No. HY/2017/10

Tuen Mun - Chek Lap Kok Link - Northern Connection Tunnel Buildings,
Electrical and Mechanical Works

Reporting of Landscape Planting Works for
Southern Landfall, Northern Landfall and Main Control Building
during the 24-month Establishment Period (May to July 2021)

In accordance with *Section 7.3.1.2* of the *Updated EM&A Manual*, we are pleased to provide you with the *Establishment Landscape Monitoring Checklist for May to July* 2021 for your perusal and counter-signature.

Should you require any further information or clarification please do not hesitate to contact the undersigned.

Yours faithfully

For ERM-Hong Kong, Ltd

Dr Jasmine Ng

Environmental Team Leader

Direct Tel: (852) 2271 3311 E-mail: jasmine.ng@erm.com

<u>c.c.</u>

AECOM (Attn: Mr Desmond Fung) GCL (Attn: Ms Phoebe Ng)





Environmental Resources Management

2509
25/F
One Harbourfront
18 Tak Fung Street
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Registered Office ERM-Hong Kong, Ltd 2509 25/F One Harbourfront 18 Tak Fung Street Hunghom Kowloon Hong Kong

Establishment Inspection Checklist

Inspec	ction Date:	27 th and 30 th July 2021	Inspected By:	Ray Yar	1		
Time:		9:30 a.m.	Weather Condition: Sunny (27th); Cloudy with showers (30			showers (30th)	
Participants:		27th (Zones 4 to 6): Sue Kei (AECOM); Agnes Wong	(Gammon); Rachel Wong	(Ramboll); (Candy W	ong (ERM)
		30th (Zones 1 to 4): Sue Kei (AECOM); Agnes Wong	(Gammon); Rachel Wong,	Jacky Chu	(Rambol	l); Candy \	Wong (ERM)
1	Zone 1			or not served	Yes	No	Remarks / Photo
1.1	• .	provided to plants to ensure satisfactory growth automatic irrigation)?	and health		$\overline{\checkmark}$		
1.2	•	kes, guys and ties provided properly for safety	and avoid		V	_	
1.3		limb overhanging branches pruned?					
1.4	Are pest and	I disease observed?					Obs. 7
1.5	Are litter and	I debris removed?					
1.6	Are plants/ g	rasses overgrown?				✓	
1.7	replace dead blown over, f	ent weather conditions, are proper action imple d plants, repair damaged plants, bed in all plan firm up all other plants and immediately therea and plant debris from the site?	ts that have			<u>-</u> ☑	Obs. 6
1.8	•	locations and tree spacing matched with the a	pproved		V	_	
1.9	Are the plant	ting species on site matched with the approved insolidated planting schedule in Annex B.	d planting		V		
			G	iood	Fair	Poor	
1.10	Overall healt	th condition of the plants?					
2	Zone 2			or not served	Yes	No	Remarks / Photo
2.1		provided to plants to ensure satisfactory growth automatic irrigation)?	and health		$\overline{\checkmark}$		
2.2		kes, guys and ties provided properly for safety	and avoid				No trees
2.3	-	limb overhanging branches pruned?		$\overline{\checkmark}$			No trees
2.4	Are pest and	I disease observed?				$\overline{\mathbf{V}}$	
2.5	Are litter and	I debris removed?			$\overline{\mathbf{A}}$		
2.6	Are plants/ g	rasses overgrown?				$\overline{\mathbf{V}}$	
2.7	replace dead blown over, f	ent weather conditions, are proper action imple d plants, repair damaged plants, bed in all plan firm up all other plants and immediately therea and plant debris from the site?	ts that have	Ø			
2.8	•	locations and tree spacing matched with the a	pproved				
	planting plan	18?					
2.9	Are the plant	is? ting species on site matched with the approved nsolidated planting schedule in Annex B.	d planting				
	Are the plant plans? Co	ting species on site matched with the approved		□	☑ Fair	□ Poor	

3	Zone 3	N/A or not observed	Yes	No	Remarks / Photo
3.1	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)?				
3.2	Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark?				No trees
3.3	Are trees or limb overhanging branches pruned?				No trees
3.4	Are pest and disease observed?			$\overline{\checkmark}$	
3.5	Are litter and debris removed?				
3.6	Are plants/ grasses overgrown?			$\overline{\mathbf{V}}$	
3.7	After inclement weather conditions, are proper action implemented to replace dead plants, repair damaged plants, bed in all plants that have blown over, firm up all other plants and immediately thereafter, remove dead plants and plant debris from the site?	Ø			
3.8	Are planting locations and tree spacing matched with the approved planting plans?				
3.9	Are the planting species on site matched with the approved planting plans? Consolidated planting schedule in Annex B.				
		Good	Fair	Poor	
3.10	Overall health condition of the plants?		\square		
4	Zone 4	N/A or not observed	Yes	No	Remarks / Photo
4 4.1	Zone 4 Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)?		Yes ☑	No□	
	Is watering provided to plants to ensure satisfactory growth and health	observed			
4.1	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)? Are tree stakes, guys and ties provided properly for safety and avoid	observed	Ø		
4.1 4.2	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)? Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark?	observed □	V		
4.14.24.3	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)? Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark? Are trees or limb overhanging branches pruned?	observed □ □			
4.1 4.2 4.3 4.4	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)? Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark? Are trees or limb overhanging branches pruned? Are pest and disease observed?	observed □ □ □ □ □			
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4.1 4.2 4.3 4.4 4.5 4.6 4.7	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)? Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark? Are trees or limb overhanging branches pruned? Are pest and disease observed? Are litter and debris removed? Are plants/ grasses overgrown? After inclement weather conditions, are proper action implemented to replace dead plants, repair damaged plants, bed in all plants that have blown over, firm up all other plants and immediately thereafter, remove dead plants and plant debris from the site? Are planting locations and tree spacing matched with the approved	observed			Obs. 2 Obs. 4
4.1 4.2 4.3 4.4 4.5 4.6 4.7	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)? Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark? Are trees or limb overhanging branches pruned? Are pest and disease observed? Are litter and debris removed? Are plants/ grasses overgrown? After inclement weather conditions, are proper action implemented to replace dead plants, repair damaged plants, bed in all plants that have blown over, firm up all other plants and immediately thereafter, remove dead plants and plant debris from the site? Are planting locations and tree spacing matched with the approved planting plans? Are the planting species on site matched with the approved planting	observed			Obs. 2 Obs. 4
4.1 4.2 4.3 4.4 4.5 4.6 4.7	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)? Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark? Are trees or limb overhanging branches pruned? Are pest and disease observed? Are litter and debris removed? Are plants/ grasses overgrown? After inclement weather conditions, are proper action implemented to replace dead plants, repair damaged plants, bed in all plants that have blown over, firm up all other plants and immediately thereafter, remove dead plants and plant debris from the site? Are planting locations and tree spacing matched with the approved planting plans? Are the planting species on site matched with the approved planting	observed			Obs. 2 Obs. 4

5	Zone 5	N/A or not observed	Yes	No	Remarks / Photo
5.1	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)?		V		
5.2	Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark?				
5.3	Are trees or limb overhanging branches pruned?	\square			
5.4	Are pest and disease observed?		$\overline{\mathbf{A}}$		Obs. 3
5.5	Are litter and debris removed?		$\overline{\checkmark}$		
5.6	Are plants/ grasses overgrown?			$\overline{\mathbf{V}}$	
5.7	After inclement weather conditions, are proper action implemented to replace dead plants, repair damaged plants, bed in all plants that have blown over, firm up all other plants and immediately thereafter, remove dead plants and plant debris from the site?	☑			
5.8	Are planting locations and tree spacing matched with the approved planting plans?		$\overline{\checkmark}$		
5.9	Are the planting species on site matched with the approved planting plans? Consolidated planting schedule in Annex B.		$\overline{\checkmark}$		
		Good	Fair	Poor	
5.10	Overall health condition of the plants?		$\overline{\checkmark}$		
6	Zone 6	N/A or not observed	Yes	No	Remarks / Photo
6.1	Is watering provided to plants to ensure satisfactory growth and health (manual and automatic irrigation)?				
6.2	Are tree stakes, guys and ties provided properly for safety and avoid chaffing of bark?				
6.3	Are trees or limb overhanging branches pruned?	$\overline{\checkmark}$			
6.4	Are pest and disease observed?				
6.5	Are litter and debris removed?				
6.6	Are plants/ grasses overgrown?				
6.7	After inclement weather conditions, are proper action implemented to replace dead plants, repair damaged plants, bed in all plants that have blown over, firm up all other plants and immediately thereafter, remove dead plants and plant debris from the site?			✓	Obs. 1
6.8	Are planting locations and tree spacing matched with the approved planting plans?				
6.9	Are the planting species on site matched with the approved planting plans? Consolidated planting schedule in Annex B.				
		Good	Fair	Poor	
6.10	Overall health condition of the plants?		$\overline{\mathbf{A}}$		
7	General Document	N/A or not observed	Yes	No	Remarks / Photo
7.1	Are the records of watering, fertilizing, weeding, pruning and mowing kept for checking?		V		

Follow-up actions for previous Site Audit:

Follow-up actions taken for the observations as recorded during last landscape monitoring conducted on 4, 5 and 9 March 2021: i) Tree re-planting works for tree nos. TS446, TS854, TS1083, TS1087, TS1162, TS1177, TS1349, TS1380, TS815, TS820, TS821, TS824, TS825 and TS826 within Zone 6 was completed in accordance with the latest planting plan with monitoring and review of the health for tree no. TS1177 recommended (see *Observation 1 & Follow-up action 1*); and ii) Correct tree species for tree nos. TM27 and TM130 within Zone 4 were re-planted in accordance with the latest planting plan (see *Follow-up action 2*).

Observations:

- **Obs. 1**: Tree re-planting works for tree no. TS1177 (*Callistemon viminalis*) within Zone 6 was completed in accordance with the latest planting plan with sparse foliage observed. The health of the tree should be closely monitored and reviewed.
- **Obs. 2**: The tree, *Bauhinia variegata*, (tree no. TM42) within Zone 4 was in wilting. The health of the tree should be closely monitored and reviewed, and tree re-planting works should also be carried out in accordance with the latest planting plan if the tree is unavoidably removed from site.
- **Obs. 3**: Suspected pest infestation was noticed from the leaves of shrub species, *Schefflera arboricola* "variegata", planted in the vicinity of car park area within Zone 5. The health of shrub should be closely monitored and reviewed, and take remedial actions in terms of pest control as appropriate.
- **Obs. 4**: The tree, *Grevillea robusta*, (tree no. TM149) within Zone 4 was dead. Tree re-planting works should be carried out in accordance with the latest planting plan.
- **Obs. 5**: The tree, *Bauhinia variegata*, (tree no. TM175) within Zone 4 was in wilting in presence of exotic species, *Aster subulatus*. The health of the tree should be closely monitored and reviewed; and tree re-planting works should also be carried out in accordance with the latest planting plan if the tree is unavoidably removed from site.
- **Obs. 6**: The tree, *Pongamia pinnata*, (tree no. TN158) within Zone 1 was in wilting. The health of the tree should be closely monitored and reviewed, and tree re-planting works should also be carried out in accordance with the latest planting plan if the tree is unavoidably removed from site.
- **Obs. 7**: The leaves of trees, *Plumeria rubra*, (tree nos. TN78 & TN80) within Zone 1 were invaded by scale insects belonging to the family Coccidae. The health of the trees should be closely monitored and reviewed, and take remedial actions in terms of pest control as appropriate.

Corrective Actions (if any):

- Tree health should be closely monitored and reviewed, with remedial actions taken for pest control, as appropriate.
- Tree re-planting works for the trees requiring replacement should be completed in accordance with the latest planting plan.

General Conclusion:

Total number of trees planted (1): 431 (Zone 1); 0 (Zone 2); 0 (Zone 3); 435 (Zone 4); 4 (Zone 5); and 2,127 (Zone 6).

Planting area under Contract No. HY/2017/10: 14.42 ha (based on the survey data provided by the SOR).

⁽¹⁾ Only compensatory trees were counted during the monitoring with reference to the approved Landscape and Visual Plan for Tuen Mun-Chek Lap Kok Link project.

Inspected by (ET's Representative):	Ray Yan	Title:	Deputy Environmental Team Leader
Signature:	Kan	Date:	30 July 2021
Reviewed by (RSS Landscape	O		
Representative):	Candy Lau	Title:	Senior Resident Landscape Architect
Signature:	Candy	Date:	6 August 2021
Contractor's	0		
Contractor's Representative:	Agnes Wong	Title:	SHI
Signature:	Agnes Wong	Date:	6 August 2021
01 1 11	0		
Checked by (IEC's Representative):	Rachel Wong	Title:	Assistant Environmental Consultant
Signature:	Ran	Date:	6 August 2021

Location	Photo	Information
Zone 6		Date: 27 July 2021 Follow-up action 1: Tree re-planting works for tree no. TS446 within Zone 6 was completed in accordance with the latest planting plan. Species: Grevillea robusta
Zone 6		Date: 27 July 2021 Follow-up action 1: Tree re-planting works for tree no. TS854 within Zone 6 was completed in accordance with the latest planting plan. Species: Callistemon viminalis

Location	Photo	Electrical and Mechanical Works Information Establishment Inspection Checklist
Zone 6		Date: 27 July 2021 Follow-up action 1: Tree re-planting works for tree no. TS1083 within Zone 6 was completed in accordance with the latest planting plan. Species: Callistemon viminalis
Zone 6		Date: 27 July 2021 Follow-up action 1: Tree re-planting works for tree no. TS1087 within Zone 6 was completed in accordance with the latest planting plan. Species: Grevillea robusta

Location	ek Lap Kok Link – Northern Connection Tunnel Buildings, I Photo	Electrical and Mechanical Works Information Establishment Inspection Checklist
Zone 6		Date: 27 July 2021 Follow-up action 1: Tree re-planting works for tree no. TS1162 within Zone 6 was completed in accordance with the latest planting plan. Species: Callistemon viminalis
Zone 6		Date: 27 July 2021 Follow-up action 1: Tree re-planting works for tree no. TS1349 within Zone 6 was completed in accordance with the latest planting plan. Species: Grevillea robusta

Location	Photo	Information
Zone 6		Date: 27 July 2021 Follow-up action 1: Tree re-planting works for tree no. TS1380 within Zone 6 was completed in accordance with the latest planting plan. Species: Grevillea robusta
Zone 6	TSR22	Date: 27 July 2021 Follow-up action 1: Tree re-planting works for tree nos. TS815 and TS821 within Zone 6 was completed in accordance with the latest planting plan. Species: Grevillea robusta

Location	Photo	Information
Zone 6	FS826 FS820 TAN25 TS824	Date: 27 July 2021 Follow-up action 1: Tree re-planting works for tree nos. TS820, TS824, TS825 and TS826 within Zone 6 was completed in accordance with the latest planting plan. Species: Grevillea robusta
Zone 4		Date: 27 July 2021 Follow-up action 2: Correct tree species, <i>Bauhinia variegata</i> , for tree nos. TM27 and TM130 within Zone 4 were re-planted in accordance with the latest planting plan. Species: <i>Bauhinia variegata</i>

Location	Photo	Information
Zone 6		Date: 27 July 2021 Follow-up action 1 (Observation 1): Tree re-planting works for tree no. TS1177 within Zone 6 was completed in accordance with the latest planting plan with sparse foliage observed. The health of the tree should be closely monitored and reviewed. Species: Callistemon viminalis
Zone 4		Date: 27 July 2021 Observation 2: The tree (tree no. TM42) within Zone 4 was in wilting. The health of the tree should be closely monitored and reviewed, and tree re-planting works should also be carried out in accordance with the latest planting plan if the tree is unavoidably removed from site. Species: Bauhinia variegata

Location	ek Lap Kok Link – Northern Connection Tunnel Buildings, Photo	Electrical and Mechanical Works Information Establishment Inspection Checklist
Zone 5		Date: 27 July 2021 Observation 3: Suspected pest infestation was noticed from the leaves of shrub species, <i>Schefflera arboricola</i> "variegata", planted in the vicinity of car park area within Zone 5. The health of shrub should be closely monitored and reviewed, and take remedial actions in terms of pest control as appropriate. Species: <i>Schefflera arboricola</i> "variegata"
Zone 4		Date: 30 July 2021 Observation 4: The tree (tree no. TM149) within Zone 4 was dead. Tree re-planting works should be carried out in accordance with the latest planting plan. Species: Grevillea robusta

Location	Photo	Establishment Inspection Checklist Information
Zone 4		Date: 30 July 2021 Observation 5: The tree (tree no. TM175) within Zone 4 was in wilting in presence of exotic species, <i>Aster subulatus</i> . The health of the tree should be closely monitored and reviewed; and tree re-planting works should also be carried out in accordance with the latest planting plan if the tree is unavoidably removed from site. Species: <i>Bauhinia variegata</i>
Zone 1		Date: 30 July 2021 Observation 6: The tree (tree no. TN158) within Zone 1 was in wilting. The health of the tree should be closely monitored and reviewed, and tree re-planting works should also be carried out in accordance with the latest planting plan if the tree is unavoidably removed from site. Species: Pongamia pinnata

Location	Photo	Electrical and Mechanical Works Information
Zone 1		Date: 30 July 2021 Observation 7: The leaves of trees (tree nos. TN78 & TN80) within Zone 1 were invaded by scale insects belonging to the family Coccidae. The health of the trees should be closely monitored and reviewed, and take remedial actions in terms of pest control as appropriate. Species: Plumeria rubra



Northern Landfall - Roadside Planting

CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) X SPREAD (S)	SPACING (mm)
TREE				
BAU.BLA	Bauhinia x blakeana *	洋紫荊	HEAVY STANDARD	4500-5000
BAU.VAR	Bauhinia variegata	宮粉羊蹄甲	HEAVY STANDARD	4500-5000
ELA.API	Elaeocarpus apiculatus	尖葉杜英	HEAVY STANDARD	6000
ELA.HAI	Elaeocarpus hainanensis	水石榕	HEAVY STANDARD	5000
GAR.SUB	Garcinia subelliptica	菲島福木	HEAVY STANDARD	3500-4000
GRE.ROB	Grevillea robusta	銀樺	HEAVY STANDARD	4500-5000
MEL.QUI	Melaleuca quinquenervia	白千層	HEAVY STANDARD	4500-5000
PLU.MUL	Plumeria rubra (multi-colour flower)	雞蛋花(多色花)	HEAVY STANDARD 2000(H) x 2000(S) - 2500(H) x 2500(S)	4000-4500
PLU.RUB	Plumeria rubra (red flower)	雞蛋花(紅花)	HEAVY STANDARD 2000(H) x 2000(S) - 2500(H) x 2500(S)	4000-4500
PLU.RUB(Y)	Plumeria rubra (yellow flower)	雞蛋花(黄花)	HEAVY STANDARD 2000(H) x 2000(S) - 2500(H) x 2500(S)	4000-4500
PON.PIN	Pongamia pinnata *	水黃皮	HEAVY STANDARD	5000-6000
STE.LAN	Sterculia lanceolata *	假蘋婆	HEAVY STANDARD	4500-5000
TER.CAT	Terminalia catappa	欖仁樹	HEAVY STANDARD	5000-7000
VIB.ODO	Viburnum odoratissimum *	珊瑚樹	HEAVY STANDARD	4500-5000
XAN.CHR	Xanthostemon chrysanthus	金蒲桃	HEAVY STANDARD	5000
PALM				
ARE.CAT	Areca catechu	檳榔	3000(H) x 1500(S)	4000
HYO.LAG	Hyophorbe lagenicaulis	酒瓶椰子	2000(H) x 1500(S)	3000
LIV.CHI	Livistona chinensis	蒲葵	3000(H) x 2000(S)	4000-4500
ROY.REG	Roystonea regia	王棕	4000(H) x 2000(S)	4500-5000
WOD.BIF	Wodyetia bifurcata	狐尾椰子	3000(H) x 1500(S)	4500
SHRUB				
CMI	Carmona microphylla	福建茶	300(H) x 300(S)	300
CRE	Cycas revoluta	蘇鐵	500(H) x 600(S)	N/A
DLU	Dypsis lutescens	散尾葵	2000(H) x 2000(S)	2000
JKA	Juniperus chinensis 'Kaizuca'	龍柏球	600(H) x 600(S)	N/A
ICH	Ixora chinensis *	龍船花	300(H) x 300(S)	300
ICO	Ixora coccinea	橙紅龍船花	300(H) x 300(S)	300
ILU	Ixora coccinea 'Lutea'	黃花龍船花	400(H) x 300(S)	300
IST	Ixora stricta	細葉龍船花	250(H) x 250(S)	250
IWE	Ixora westii	粉紅龍船花	400(H) x 300(S)	300
NOL	Nerium oleander	夾竹桃	500(H) x 400(S)	500
РТО	Pittosporum tobira	海桐	300(H) x 300(S)	350
PMA	Podocarpus macrophyllus *	羅漢松	600(H) x 500(S)	N/A
PAX	Polyspora axillaris *	大頭茶	300(H) x 300(S)	350
RIN	Rhaphiolepis indica *	車輪梅	300(H) x 300(S)	300-350
RPU	Rhododendron pulchrum	錦繡杜鵑	300(H) x 300(S)	350
RSI	Rhododendron simsii *	紅杜鵑	250(H) x 250(S)	350
RTO	Rhodomyrtus tomentosa *	桃金娘	300(H) x 300(S)	350
STA	Scaevola taccada *	草海桐	300(H) x 300(S)	350
SDA	Schefflera arboricola 'Dazzle'	黄金八葉	300(H) x 300(S)	350
SVA	Schefflera arboricola 'Variegata'	斑葉鵝掌藤 (花葉八葉木)	300(H) x 300(S)	300-350

CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) X SPREAD (S)	SPACING (mm)
GROUNDCO	VER			
ADO	Arachis duranensis	菱花生(金花生)	100(H) x 200(S)	200
AMY	Asparagus densiflorus 'Myersii'	孤尾天冬	300(H) x 300(S)	300
ASP	Asparagus densiflorus 'Sprengeri'	非洲天門冬	100(H) x 200(S)	200
CHY	Cuphea hyssopifolia	細葉鵯距花	200(H) x 250(S)	250
CRO	Catharanthus roseus	長春花	200(H) x 200(S)	200
LFL	Lantana camara 'Flava'	黄花馬鑁丹	200(H) x 200(S)	200
LMO	Lantana montevidensis	小柴馬德丹	200(H) x 200(S)	200
NAU	Nephrolepis auriculata *	野族	250(H) x 250(S)	200
NHI	Nephrolepis hirsutula *	毛葉野鮫	250(H) x 250(S)	200
ONA	Ophiopogon japonicus 'Nana'	玉龍草	50(H)	N/A
WTR	Wedelia trilobata	三裂葉蛇狐菊	150(H) x 200(S)	200
CLIMBER	- Accessory and a second			
BOD	Bauhinia corymbosa	首短籐	MIN. 4 SHOOTS PER PLANT, 600mm LONG	300-500
QIN	Quisqualis indica	使君子	MIN. 4 SHOOTS PER PLANT, 600mm LONG	300-500

NOTE:

- 1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION TO SUIT THE SITE CONDITIONS.
- 2. SHRUB / GROUNDOOVER SHOULD BE PLANTED IN A STAGGERED PATTERN.
- 3. SIZE OF TREES SHALL REFER TO THE GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS, 2006 EDITION.
- 4. GRASS SEED AS GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS, CLAUSE 3.26(3).
- 5. * SPECIES NATIVE TO HONG KONG ACCORDING TO THE HONG KONG HERBARIUM WEBSITE.



Southern Landfall (Contract 4 - HY/2017/10)

CODE	BOTANICAL NAME	CHINESE NAME	SIZE (mm) HEIGHT (H) X SPREAD (S)	SPACING (mm)	
TREE					
CV	Callistemon viminalis	串錢柳	HEAVY STANDARD	4000-5000	
GR	Grevillea robusta	銀樺	HEAVY STANDARD	4000-5000	
PRR	Plumeria rubra (red flower)	24 XF 1+ (0 T 1+)	HEAVY STANDARD 2000(H) x 2000(S) -	4000-5000	
rkk	Flameria rabra (red flower)	雞蛋花(紅花)	2500(H) x 2500(S)	4000-3000	
			HEAVY STANDARD		
PRY	Plumeria rubra (yellow flower)	雞蛋花(黄花)	2000(H) x 2000(S) -	4000-5000	
		57 50 OF TOOLSON, SEC 5002 Arthur	2500(H) x 2500(S)		
	10 May 10	499-00000000000000000000000000000000000	HEAVY STANDARD		
PLU.MUL	Plumeria rubra (multi-colour flower)	雞蛋花(多色花)	2000(H) x 2000(S) -	4000-5000	
			2500(H) x 2500(S)		
GROUNDCO	VER	200			
PE	Ipomoea pes-caprae *	海灘牽牛	150(H) x 200(S)	200	
LMO	Lantana montevidensis	小葉馬纓丹 (鋪地臭金鳳)	200(H) x 300(S)	200	
OJA	Ophiopogon japonicus *	麥冬(沿階草)	100(H) x 100(S)	100	
SPO	Syngonium podophyllum	白蝴蝶	100(H) x 200(S)	200	
rsp -	Tradescantia spathacea 'dwarf'	矮蚌花	100(H) x 100(S)	100	
WTR	Wedelia trilobata	三裂葉蟛蜞菊	150(H) x 200(S)	200	
GRASS					
ZJA	Zoysia japonica	朝鮮草	300(L)x300(W)x50(H)	N/A	

NOTE

- 1. ALL PROPOSED PLANT SPECIES AND SPECIFICATIONS ARE SUBJECT TO CHANGE DURING CONSTRUCTION TO SUIT THE SITE CONDITIONS.
- 2. SHRUB / GROUNDCOVER SHOULD BE PLANTED IN A STAGGERED PATTERN.
- 3. SIZE OF TREES SHALL REFER TO THE GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS, 2006 EDITION.
- 4. GRASS SEED AS GENERAL SPECIFICATION FOR CIVIL ENGINEERING WORKS, CLAUSE 3.26(3).
- 5. * SPECIES NATIVE TO HONG KONG ACCORDING TO THE HONG KONG HERBARIUM WEBSITE.
- 6. THE PLANT SPECIES ALLOWED FOR PLANTING IN EACH ZONE STATED IN THE HONG KONG INTERNATIONAL AIRPORT (HKIA) APPROVED PLANT SPECIES LIST (Revision. 4.0.1: October 2015).



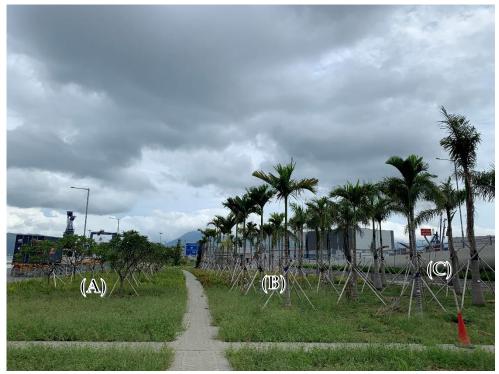


Photo 1: (A): *Plumeria rubra;* (B): *Areca catechu;* and (C): *Roystonea regia* within Zone 1 (Taken on: 30 July 2021)



Photo 2: (A): *Elaecarpus apiculatus* within Zone 1 (Taken on: 30 July 2021)

 $Source: P:\Projects\\0463091\ Gammon\ Construction\ Limited\ Gammon\ TMCLKL\ North\ Tunnel.JT\\08_Site\ Audit\\05_L\&V\ establishment\ period\ checklist\\02_SLF_NLF_TM\\02_May-Jul\ 2021$

Date: 31/07/21



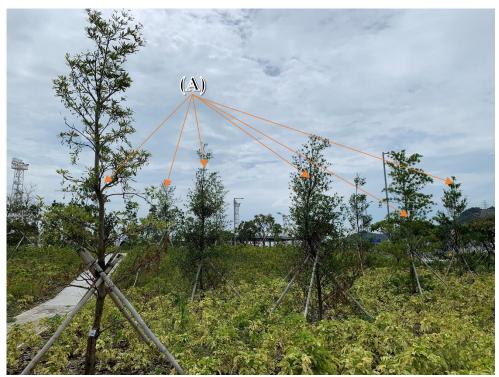


Photo 3: (A): *Elaecarpus hainanensis* within Zone 1 (Taken on: 30 July 2021)

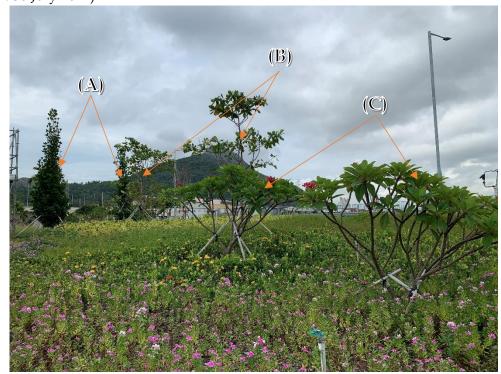


Photo 4: (A): *Garcinia subelliptica*; (B): *Terminalia catappa*; and (C): *Plumeria rubra* within Zone 1 (Taken on: 30 July 2021)

checklist\02_SLF_NLF_TM\02_May-Jul 2021

Date: 31/07/21





Photo 5: (A): *Hyophorbe lagenicaulis* within Zone 1 (Taken on: 30 July 2021)



Photo 6: (A): *Livistona chinensis*; and (B): *Plumeria rubra* within Zone 1 (Taken on: 30 July 2021)

checklist\02_SLF_NLF_TM\02_May-Jul 2021

Date: 31/07/21





Photo 7: (A): *Pongamia pinnata* within Zone 1 (Taken on: 30 July 2021)



Photo 8: (A): *Wodyetia bifurcate* within Zone 1 (Taken on: 30 July 2021)

checklist\02_SLF_NLF_TM\02_May-Jul 2021

Date: 31/07/21





Photo 9: (A): X anthostemon chrysanthus within Zone 1

(Taken on: 30 July 2021)



Photo 10: (A): *Cycas revoluta;* (B): *Latana montevidensis;* (C): *Cuphea hyssopifolia;* and (D): *Nephrolepis auriclata* within Zone 2

(Taken on: 30 July 2021)

Source: P:\Projects\0463091 Gammon Construction Limited Gammon TMCLKL North Tunnel.JT\08_Site Audit\05_L&V establishment period

checklist\02_SLF_NLF_TM\02_May-Jul 2021

Date: 31/07/21





Photo 11: (A): *Podocarpus macrophyllus*; (B): *Latana montevidensis*; (C): *Cuphea hyssopifolia*; and (D): *Nephrolepis auriclata* within Zone 2

(Taken on: 30 July 2021)



Photo 12: (A): *Dypsis lutescens*; and (B): *Ixora stricta* within Zone 2 (Taken on: 30 July 2021)

Source: P:\Projects\0463091 Gammon Construction Limited Gammon TMCLKL North Tunnel.JT\08_Site Audit\05_L&V establishment period

checklist\02_SLF_NLF_TM\02_May-Jul 2021

Date: 31/07/21





Photo 13: (A): *Cuphea hyssopifolia*; and (B): *Ixora westii* within Zone 2 (Taken on: 30 July 2021)

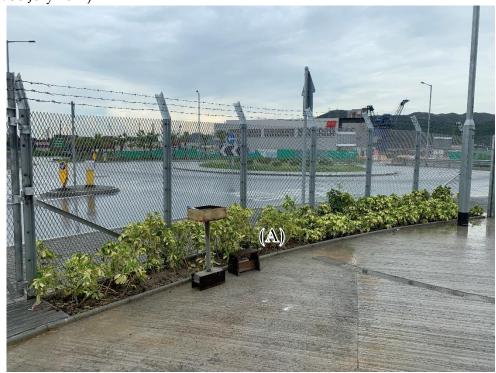


Photo 14: (A): *Schefflera arboricola* 'Dazzle' within Zone 3 (Taken on: 30 July 2021)

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Photo 15: (A): *Scaevola taccada*; and (B): *Quisqualis indica* within Zone 3 (Taken on: 30 July 2021)



Photo 16: (A): *Bauhinia varirgata* within Zone 4 (Taken on: 27 July 2021)

checklist\02_SLF_NLF_TM\02_May-Jul 2021

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Photo 17: (A): $Bauhinia \times blakeana$ within Zone 4

(Taken on: 30 July 2021)



Photo 18: (A): *Grevillea robusta* within Zone 4 (Taken on: 30 July 2021)

 $Source: P:\Projects\\\0463091\ Gammon\ Construction\ Limited\ Gammon\ TMCLKL\\ North\ Tunnel.JT\\\08_Site\ Audit\\\05_L\&V\ establishment\ period$

checklist\02_SLF_NLF_TM\02_May-Jul 2021

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Photo 19: $\it Livistona\ chinensis\ within\ Zone\ 4$

(Taken on: 27 July 2021)



Photo 20: (A): *Melaleuca quinquenervia* within Zone 4 (Taken on: 30 July 2021)

 $Source: P:\Projects\\\0463091\ Gammon\ Construction\ Limited\ Gammon\ TMCLKL\\ North\ Tunnel.JT\\\08_Site\ Audit\\\05_L\&V\ establishment\ period$

checklist\02_SLF_NLF_TM\02_May-Jul 2021

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Photo 21: (A): *Pongamia pinnata*; (B): *Sterculia lanceolata*; and (C): *Terminalia catappa* within Zone 4 (Taken on: 30 July 2021)



Photo 22: (A): *Viburnum odoratissimum* within Zone 4 (Taken on: 30 July 2021)

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Photo 23: (A): $Wodyetia\ bifurcate\ within\ Zone\ 4$

(Taken on: 30 July 2021)



Photo 24: (A): *Wodyetia bifurcate* within Zone 5 (Taken on: 27 July 2021)

 $Source: P:\Projects\\\0463091\ Gammon\ Construction\ Limited\ Gammon\ TMCLKL\\ North\ Tunnel.JT\\\08_Site\ Audit\\\05_L\&V\ establishment\ period$

checklist\02_SLF_NLF_TM\02_May-Jul 2021

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Photo 25: (A): Ixora chinensis within Zone 5

(Taken on: 27 July 2021)



Photo 26: (A): *Ixora coccinea* within Zone 5 (Taken on: 27 July 2021)

 $Source: P:\Projects\\\0463091\ Gammon\ Construction\ Limited\ Gammon\ TMCLKL\\ North\ Tunnel.JT\\\08_Site\ Audit\\\05_L\&V\ establishment\ period$

checklist\02_SLF_NLF_TM\02_May-Jul 2021

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Photo 27: (A): *Schefflera arboricola* 'variegata' within Zone 5 (Taken on: 27 July 2021)



Photo 28: (A): *Cuphea hyssopifolia* within Zone 5 (Taken on: 27 July 2021)

checklist\02_SLF_NLF_TM\02_May-Jul 2021

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Photo 29: (A): Grevillea robusta within Zone 6

(Taken on: 27 July 2021)



Photo 30: (A): *Callistemon viminalis* within Zone 6 (Taken on: 27 July 2021)

 $Source: P:\Projects\\\0463091\ Gammon\ Construction\ Limited\ Gammon\ TMCLKL\\ North\ Tunnel.JT\\\08_Site\ Audit\\\05_L\&V\ establishment\ period$

checklist\02_SLF_NLF_TM\02_May-Jul 2021

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Photo 31: (A): *Plumeria rubra* within Zone 6 (Taken on: 27 July 2021)



Photo 32: (A): *Zoysia japonica*; and (B): *Tradescantia spathacea* 'Dwarf' within Zone 6 (Taken on: 27 July 2021)

checklist\02_SLF_NLF_TM\02_May-Jul 2021

Date: 31/07/21

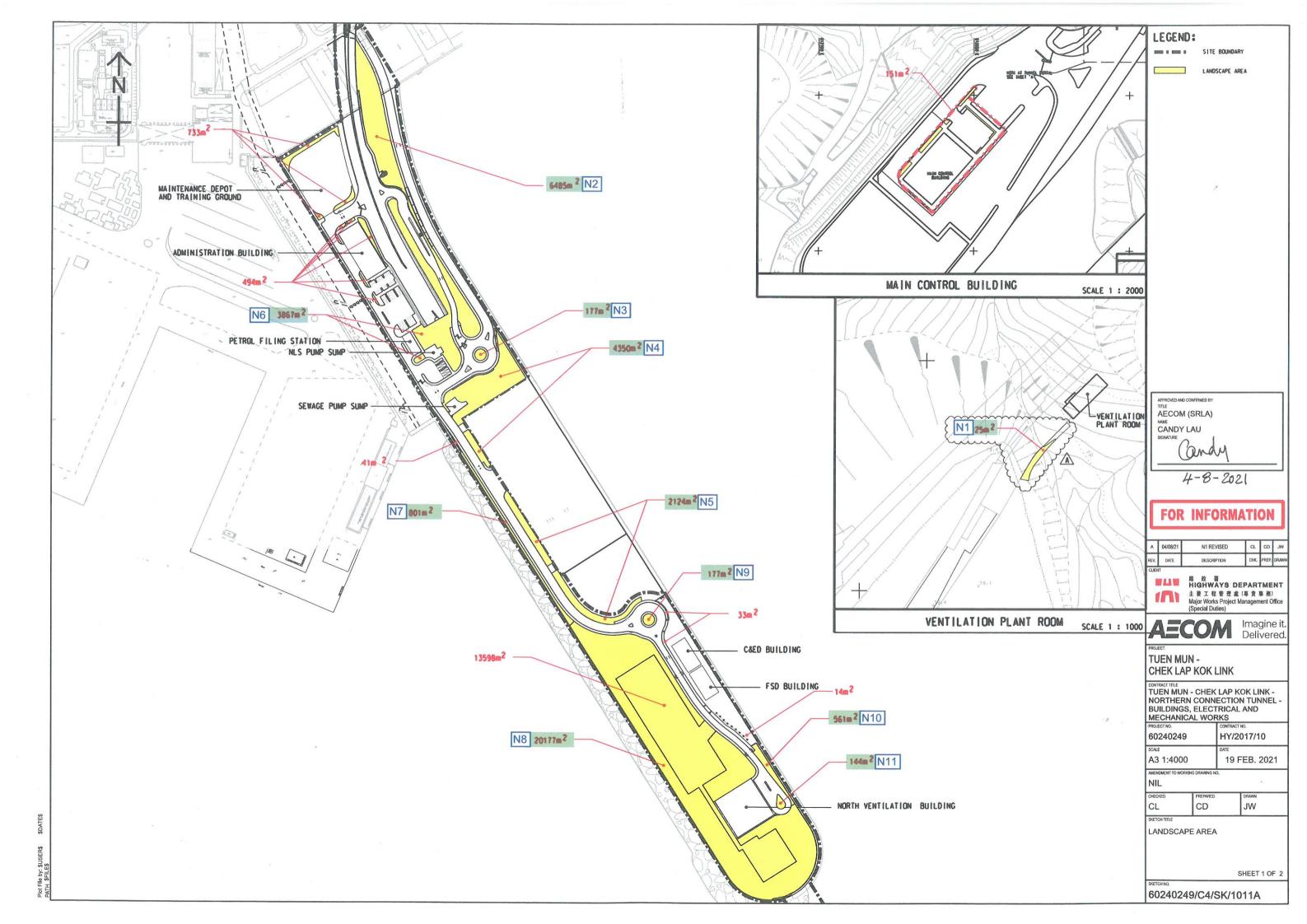


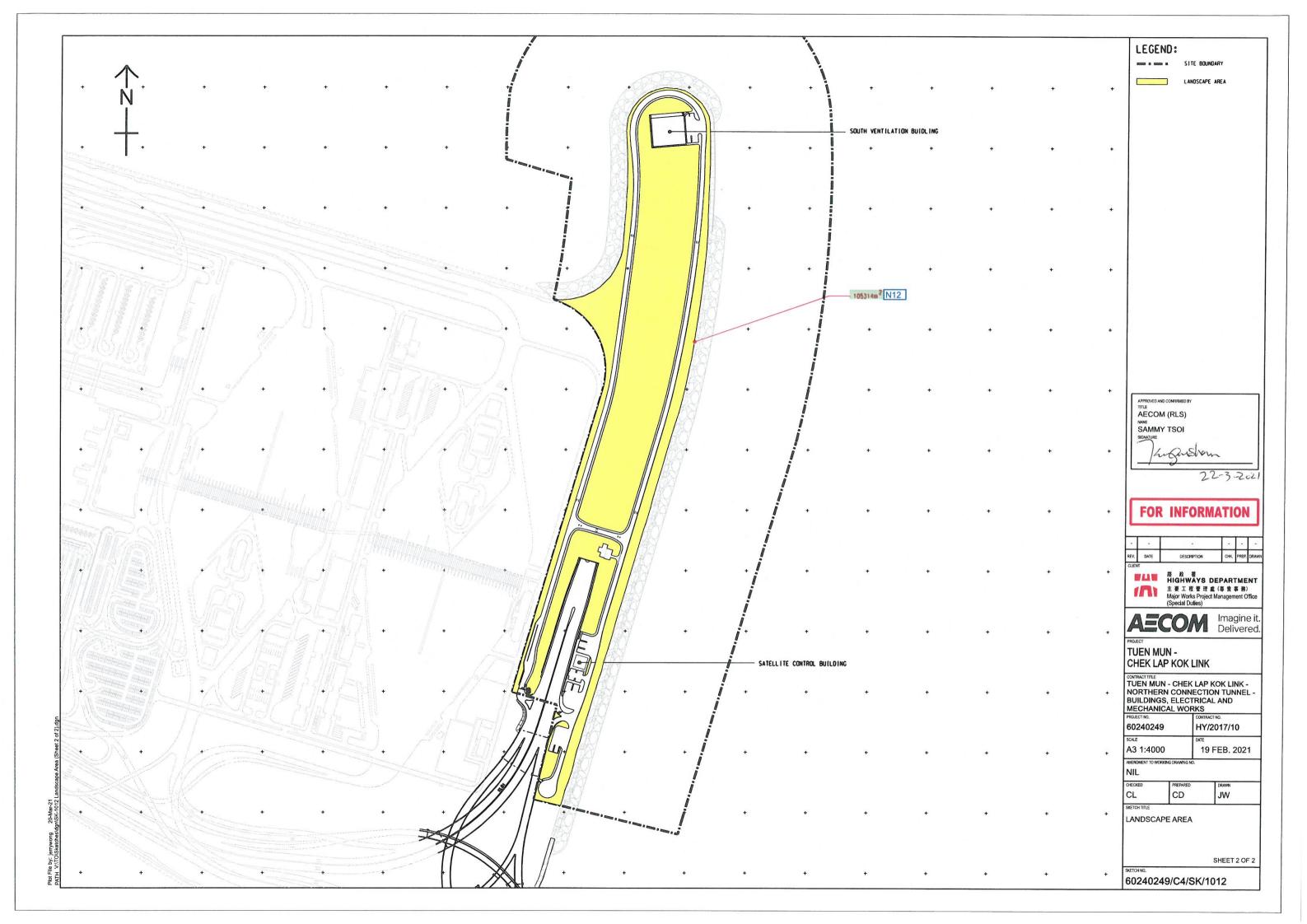
Contract No. HY/2017/10 (C4) Landscape Area Checking for EP Condition 2.9

Area Code	Location	Plan Area (sq.m.) Approx.
N1	VPR	25
N2	NLF	6485
N3	NLF	177
N4	NLF	4350
N5	NLF	2124
N6	NLF	3867
N7	NLF	801
N8	NLF	20177
N9	NLF	177
N10	NLF	561
N11	NLF	144
Sub-total (A)		38888
N12	SLF	105314
Sub-total (B)	105314	
Total (A) + (B)	144202	

ABBREVIATIONS

VPR Ventilation Plant Room
NLF Northern Landfall
SLF Southern Landfall





Summary of Compensatory Trees under Contract No. HY/2017/10

Compensatory	Quantity							
Botanical name	Chinese name	Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	
Areca catechu	檳榔	48						
Bauhinia variegata	宮粉羊蹄甲				38			
Bauhinia x blakeana	洋紫荊				10			
Callistemon viminalis	串錢柳						135	
Elaecarpus apiculatus	尖葉杜英	6						
Elaecarpus hainanensis	水石榕	18						
Garcinia subelliptica	福木	3						
Grevillea robusta *	銀樺				18		306	
Hyophorbe lagenicaulis	酒瓶椰子	16						
Livistona chinensis	蒲葵	87			158			
Melaleuca quinquenervia	白千層				18			
Plumeria rubra	雞蛋花	159					1686	
Pongamia pinnata	水黃皮	25			26			
Roystonea regia	王棕	44						
Sterculia lanceolata	假蘋婆				54			
Terminalia catappa	欖仁樹	2			36			
Viburnum odoratissimum	珊瑚樹				10			
Wodyetia bifurcata	狐尾椰子	10			67	4		
Xanthostemon chrysanthus	金蒲桃	13						
	Sub-total	431	0	0	435	4	2127	
	Total			29	97			

Remarks * 1 no. in Zone 4 will be re-planted as per latest planting plan for the dead tree.



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	Imp	lement Stages		Status
reference	reference			Agent	Requirement	D	C	0	
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	Environmental Protection Measures	Location/ Timing	Implementation	Relevant Standard or	Implementation Stages			Status
reference	reference	Divironmental Protection Measures	Docution/ Timing	Agent	Requirement	D	С	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	E	C1-4:	Complaint Nature						
	Frequency	Cumulative	Air	Noise	Water	Others			
July 2021	0	0	NA	NA	NA	NA			
Cumulative since Contract commencement	0	0	NA	NA	NA	NA			

Table H-2 Statistical Summary of Environmental Summons

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

Table H-3 Statistical Summary of Environmental Prosecution

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