

JOB No.: TCS00491/09

DSD CONTRACT No.: DC/2009/08



**CONSTRUCTION OF YUEN LONG SOUTH BRANCH
SEWERS AND EXPANSION OF HA TSUEN SEWAGE
PUMPING STATION**

**THE FORTH-FOURTH RESULTS OF LANDSCAPE AND VISUAL IMPACT
MONITORING
FOR SEPTEMBER 2013 (No.44)**

PREPARED FOR

**CHINA STATE CONSTRUCTION ENGINEERING
(HONG KONG) COMPANY LIMITED**

Quality Index

Date	Reference No.	Prepared By	Certified By
		Donald Kwok (Assistant Environmental Consultant)	T.W. Tam (Environmental Team Leader)
2 December 2013	TCS00491/09/600/R0506v3		

Version	Date	Description
1	25 October 2013	First submission
2	25 November 2013	Amended against IEC's comments on 4 November 2013
3	2 December 2013	Amended against IEC's comments on 27 November 2013

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安誠工程顧問有限公司

香港灣仔
皇后大道東183號
合和中心47樓
電話: (852) 2911 2233
傳真: (852) 2805 5028

Hyder Consulting Limited

Company Number 126012
47th Floor, Hopewell Centre
183 Queen's Road East
Wan Chai, Hong Kong
Tel: (852) 2911 2233
Fax: (852) 2805 5028
hyder.hk@hyderconsulting.com
www.hyderconsulting.com



13 December 2013

By E-mail

Action-United Environmental Services &
Consulting
Unit A, 20/F, Gold King Industrial Building,
35-41 Tai Lin Pai Road,
Kwai Chung,
New Territories,
Hong Kong.

Your Ref:

Our Ref: EB000586-F/THW13-14947

For attention of: Mr. T. W. Tam

Dear Mr. Tam,

Contract No.: DC/2009/08

Construction of Yuen Long South Branch Sewers and Expansion of Ha Tsuen Sewage Pumping Station

Monthly EM&A Report for Designated Project, Landscape and Visual Impact Sections, August and September 2013 – IEC Verification

With reference to ET's captioned Landscape and Visual Impact sections of monthly EM&A Report of the reporting months, August 2013 (ET's ref.: TCS0491/09/600/R0505v4) submitted on 11 December 2013, and September 2013 (ET's ref.: TCS0491/09/600/R0506v3) submitted on 2 December 2013, we have no further comment and hereby verify the captioned Landscape and Visual Impact sections of the monthly EM&A Report.

Yours sincerely,
for and on behalf of Hyder Consulting Limited

F.C. TSANG
Independent Environmental Checker

FCT/my

1. INTRODUCTION

- 1.01 This Results of Landscape and Visual Impact Monitoring (hereinafter “the LVIM Results”) is part of the monthly EM&A report under DSD Contract No.: DC/2009/08 Construction of Yuen Long South Branch Sewers and Expansion of Ha Tsuen Sewage Pumping Station: *Results of Landscape and Visual Impact* of Chapter 4 *Impact Monitoring Results*. The LVIM Results should therefore be read in conjunction with the corresponding monthly EM&A reports.
- 1.02 Pursuant to Chapter 6 *Landscape and Visual* of the EM&A Manual, EM&A for landscape and visual resources is considered to be a key aspect during both the construction and operational phases of the Project. The implementation and maintenance of landscape compensatory planting measures should therefore be checked to ensure that they are fully realized and that potential conflicts between the proposed landscape measures and any other project works and operational requirements are resolved at the earliest possible date and without compromise to the intention of the mitigation measures.
- 1.03 Monitoring of the recommended implementation of the mitigation measures is required to be conducted throughout the construction phase of the Project.
- 1.04 As a member of the ET, the landscape architect is responsible for the implementation of landscape construction works and subsequent maintenance operations during the 12 month establishment period. The establishment works should be undertaken throughout the Contractor's one year maintenance period which will be within the first operational year of the Project.
- 1.05 All measures undertaken by both the Contractor and the Landscape Contractor during the construction phase and first year of the operational phase should be audited by the landscape architect on a regular basis to ensure compliance with the intended aims of the measures.
- 1.06 Site inspections should be undertaken at least once every two weeks throughout the construction period and once every two months during the operational phase.
- 1.07 The LVIM Results has been prepared by the landscape architect and compiled by the ET upon receipt for submission to EPD after verification by the IEC.
- 1.08 To cater to closer compliance of the EM&A reporting with the EP requirements, it has been agreed among the RE, IEC and ET that The LVIM Results is submitted separately as a stand-alone submission.
- 1.09 This is the forty-fourth (No. 44) LVIM Results, covering the construction period from 1 to 30 September 2013 (hereinafter “the Result Period”).

2. LVIM RESULTS

- 2.01 The LVIM Results are presented in the site inspection checklist of the Result Period enclosed in Appendix A.
- 2.02 The trees at Ha Tsuen Sewage Pumping Station have been handed over to DSD since January 2011 for management and monitoring thereafter.
- 2.03 The typhoon signal no.8 approached on 22/9/2013 further damaged the trees and 15 trees were found to be damaged/dead after this typhoon, the location plan and summary of damaged/dead trees are enclosed in Appendix B and C respectively. After the site inspections by Landscaping architect of Drainage Services Department, total of 35 nos. of damaged trees were decided to be felled and the programme is enclosed in Appendix D. The summary of tree number, species and condition damage for those trees were attached with the site inspection checklist.
- 2.04 A total of 20 nos. of new trees will be planted after those trees are felled, however the species and approximate locations of new/transplanted trees are still pending, the relevant information will be attached in LVIM results in October 2013.

3. STRUCTURE OF THE LVIM RESULTS

- 3.01 The structure of this LVIM Results is as follows:-

1. INTRODUCTION

2. LVIM RESULTS

1

APPENDIX A **SITE INSPECTION CHECKLIST**

APPENDIX B **LOCATION PLAN OF DAMAGED/DEAD TREES**

APPENDIX C **SUMMARY OF DAMAGED/DEAD TREES**

APPENDIX D **PROGRAMME OF TREE FELLING**

Appendix A

Site Inspection Checklist

Landscape and Visual Impact Assessment

Site Inspection Checklist

Contract No.: DC/2009/08

Contract title: Construction of Yuen Long South Sewer and Expansion of Ha Tsuen Sewage Pumping Station

Contractor: China State Construction Engrg. (HK) Ltd.

Location: Ha Tsuen Sewage Pumping Station

Inspection Date: 16-Sep-2013

		Satisfactory			Rectified		Remarks
		N/A	Yes	No	Yes	No	
I. General							
1.	Erect hoarding around site boundary properly	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<hr/>
2.	Keep well maintenance of hoarding	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<hr/>
3.	All construction works are carried out within site boundary properly	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<hr/>
4.	Carry out the initial tree survey prior to construction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<hr/>
5.	Provide tree labels according to tree survey records	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<hr/>

Comments:

Standard hoarding was erected and well maintained around the works area at Ha Tsuen Sewage Pumping Station (HTSPS).

The construction has no implication to protected tree.

II. Transplanting Works

1. All transplanting works are carried out in accordance with the specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. The transplanted trees are kept in regular inspection within the establishment period	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Some trees were damaged by typhoon
3. The transplanted trees are kept in maintenance throughout the establishment period as follows:						
(i) Watering	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(ii) Weeding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(iii) Fertilising	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(iv) Littering	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(v) Grass cutting	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(vi) Firming up	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(vii) Pest control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(viii) Disease control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(ix) Pruning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(x) Replacement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Comments:

There had total 73 nos. of transplanted trees in Ha Tsuen Sewage Pumping Station due to construction works under this contract.

All tree have been handover back to DSD.

III. Landscaping Works

1. All landscaping works are carried out in accordance with the specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. The landscaping plants are kept in regular inspection within the establishment period	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Landscape and Visual Impact Assessment Site Inspection Checklist

	Satisfactory			Rectified		Remarks
	N/A	Yes	No	Yes	No	
3. The landscaping plants are kept in maintenance throughout the establishment period as follows:						
(i) Watering	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(ii) Weeding	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(iii) Fertilising	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(iv) Littering	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(v) Grass cutting	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(vi) Firming up	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(vii) Pest control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(viii) Disease control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(ix) Pruning	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(x) Replacement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Comments:

No landscaping works were carried out in the reporting month

IV. Preservation and Protection of Trees

1. All preserved trees are protected in accordance with the specifications	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. All preserved trees are fenced off properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. No construction activities are carried out in the protection zone of the preserved trees	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Comments:

All retained trees were fenced off and protected properly within the works area of the site. DSD is carrying out the preservation and protection.


Conclusion

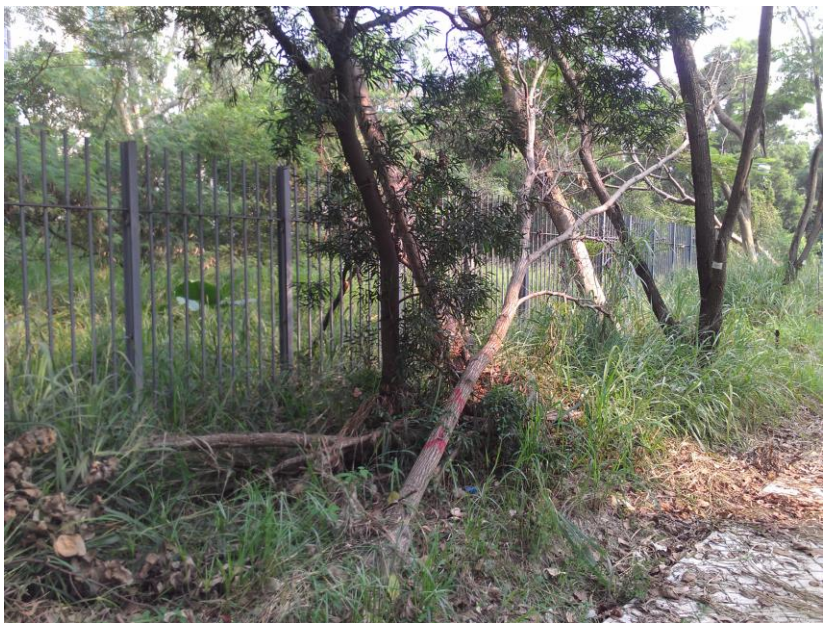
Landscaping architect of Drainage Services Department visited the site and inspected the trees on 29/8/2013. It was decided to fell the damaged trees and total of 20 nos. of new trees will be planted after the those trees are felled.

Remarks

Signatures:

Senior landscape Architect


(Name: David Bloxham)



Landscape and Visual Impact Assessment

Site Inspection Checklist

Contract No.: DC/2009/08

Contract title: Construction of Yuen Long South Sewer and Expansion of Ha Tsuen Sewage Pumping Station

Contractor: China State Construction Engrg. (HK) Ltd.

Location: Ha Tsuen Sewage Pumping Station

Inspection Date: 30-Sep-2013

		Satisfactory			Rectified		Remarks
		N/A	Yes	No	Yes	No	
I. General							
1.	Erect hoarding around site boundary properly	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2.	Keep well maintenance of hoarding	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3.	All construction works are carried out within site boundary properly	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.	Carry out the initial tree survey prior to construction	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5.	Provide tree labels according to tree survey records	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Comments:

Standard hoarding was erected and well maintained around the works area at Ha Tsuen Sewage Pumping Station (HTSPS).

The construction has no implication to protected tree.

II. Transplanting Works

1. All transplanting works are carried out in accordance with the specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. The transplanted trees are kept in regular inspection within the establishment period	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Some trees were damaged by typhoon
3. The transplanted trees are kept in maintenance throughout the establishment period as follows:						
(i) Watering	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(ii) Weeding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(iii) Fertilising	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(iv) Littering	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(v) Grass cutting	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(vi) Firming up	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(vii) Pest control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(viii) Disease control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(ix) Pruning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
(x) Replacement	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Comments:

There had total 73 nos. of transplanted trees in Ha Tsuen Sewage Pumping Station due to construction works under this contract.

All tree have been handover back to DSD.

III. Landscaping Works

1. All landscaping works are carried out in accordance with the specifications	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. The landscaping plants are kept in regular inspection within the establishment period	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Landscape and Visual Impact Assessment Site Inspection Checklist

	Satisfactory			Rectified		Remarks
	N/A	Yes	No	Yes	No	
3. The landscaping plants are kept in maintenance throughout the establishment period as follows:						
(i) Watering	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(ii) Weeding	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(iii) Fertilising	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(iv) Littering	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(v) Grass cutting	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(vi) Firming up	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(vii) Pest control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(viii) Disease control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(ix) Pruning	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
(x) Replacement	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Comments:

No landscaping works were carried out in the reporting month

IV. Preservation and Protection of Trees

1. All preserved trees are protected in accordance with the specifications	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. All preserved trees are fenced off properly	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. No construction activities are carried out in the protection zone of the preserved trees	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Comments:

All retained trees were fenced off and protected properly within the works area of the site. DSD is carrying out the preservation and protection.

Conclusion

Landscaping architect of Drainage Services Department visited the site and inspected the trees on 29/8/2013. It was decided to fell the damaged trees and total of 20 nos. of new trees will be planted after the those trees are felled. The typhoon signal no. 8 approached on 22/9/2013 further damaged the trees. Landscaping sub-contractor was arranged to fell the damaged trees shortly.

Remarks

Signatures:

Senior landscape Architect


(Name: David Bloxham)

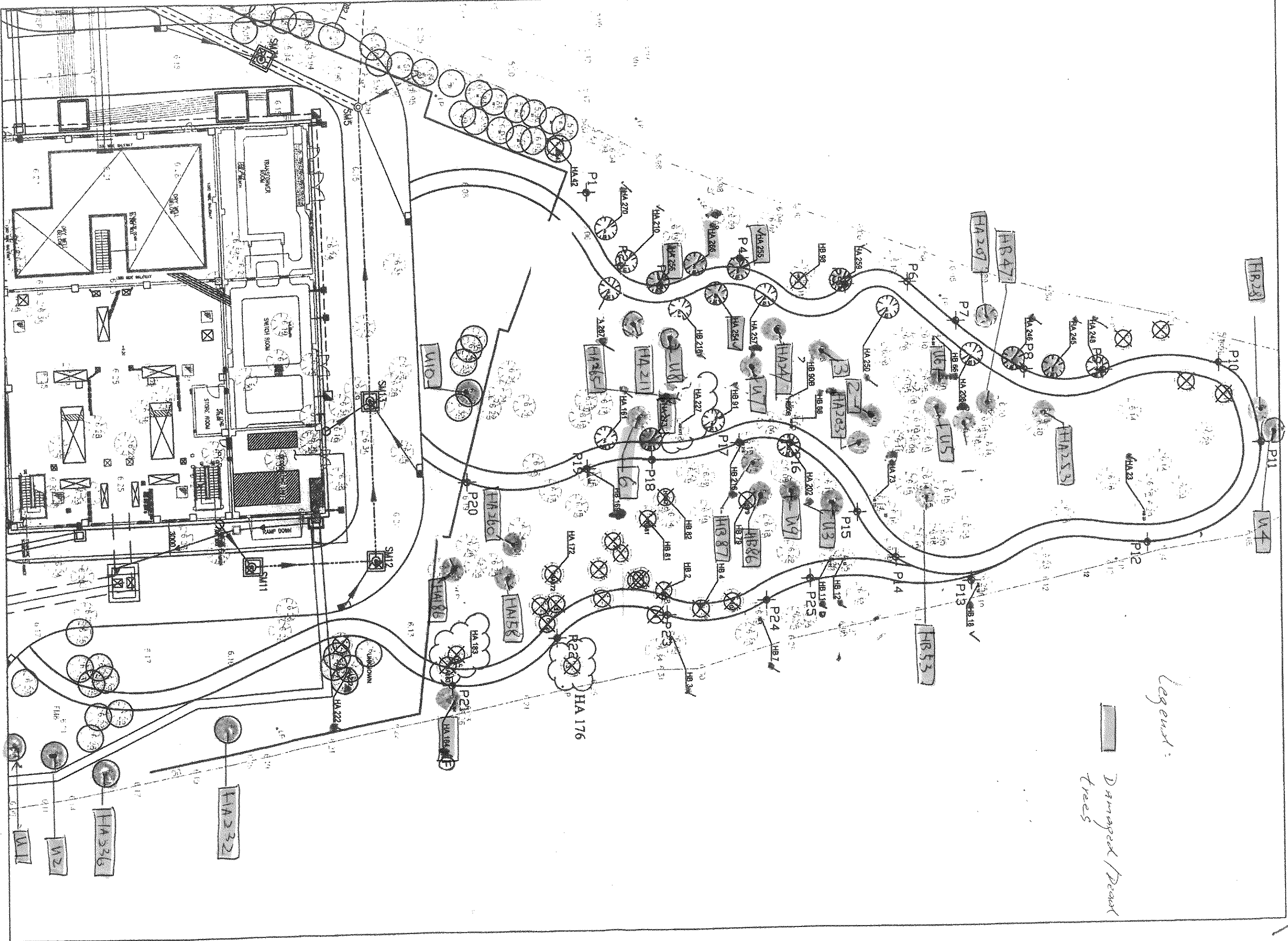


Summary of Damaged/Dead Trees to be Felled inside Ha Tsuen Sewage Pumping Station Area

Tree No.	Species	Chinese Name	Remarks
HA158	Acacia confusa	台灣相思	Leaning, uprooting
HA184	Acacia auriculiformis	耳果相思	Dead tree
HA186	Acacia auriculiformis	耳果相思	Trunk damaged
HA203	Eucalyptus torelliana	毛葉桉	Dead tree
HA207	Acacia confusa	台灣相思	Trunk damaged
HA211	Albizia lebbek	大葉合歡	Trunk damaged
HA232	Acacia confusa	台灣相思	Dead tree
HA236	Acacia auriculiformis	耳果相思	Trunk damaged
HA247	Eucalyptus torelliana	毛葉桉	Dead tree
HA253	Acacia auriculiformis	耳果相思	Dead tree
HA254	Eucalyptus torelliana	毛葉桉	Dead tree
HA255	Acacia auriculiformis	耳果相思	Dead tree
HA256	Acacia auriculiformis	耳果相思	Dead tree
HA260	Acacia confusa	台灣相思	Trunk damaged
HA265	Acacia auriculiformis	耳果相思	Dead tree
HA266	Acacia confusa	台灣相思	Dead tree
HA273	Acacia auriculiformis	耳果相思	Dead tree
HB47	Acacia auriculiformis	耳果相思	Dead tree
HB28	Bauhinia blakeana	洋紫荊	Trunk damaged, leaning
HB53	Acacia confusa	台灣相思	Bark damaged, sprouts
HB86	Acacia auriculiformis	耳果相思	Dead tree
HB87	Acacia auriculiformis	耳果相思	Trunk damaged, leaning
U1	Acacia auriculiformis	耳果相思	Trunk damaged
U2	Acacia auriculiformis	耳果相思	Trunk damaged
U3	Acacia auriculiformis	耳果相思	Trunk damaged
U4	Acacia auriculiformis	耳果相思	Dead tree
U5	Acacia auriculiformis	耳果相思	Dead tree
U6	Acacia auriculiformis	耳果相思	Dead tree
U7	Acacia auriculiformis	耳果相思	Dead tree
U8	Acacia confusa	台灣相思	Trunk damaged
U9	Acacia confusa	台灣相思	Trunk damaged
U10	Acacia confusa	台灣相思	Trunk damaged
2	Acacia auriculiformis	耳果相思	Trunk damaged
3	Acacia auriculiformis	耳果相思	Dead tree
6	Acacia auriculiformis	耳果相思	Dead tree

Appendix B

Location Plan of Damaged/Dead Trees



Legend:
Damaged / Dead trees

Appendix C

Summary of Damaged/Dead Trees

Summary of Damaged/Dead Trees to be Felled inside Ha Tsuen Sewage Pumping Station Area

Tree No.	Species	Chinese Name	Condition	Existing/Transplanted	Damage/Dead Caused by Typhoon on 14 August 2013	Damage/Dead Caused by Typhoon on 23 Sept 2013
HA158	Acacia confusa	台灣相思	Leaning, uprooting	Existing	✓	
HA184	Acacia auriculiformis	耳果相思	Dead tree	Existing	✓	
HA186	Acacia auriculiformis	耳果相思	Trunk damaged	Existing		✓
HA203	Eucalyptus torelliana	毛葉桉	Dead tree	Transplanted	✓	
HA207	Acacia confusa	台灣相思	Trunk damaged	Transplanted	✓	
HA211	Albizia lebbeck	大葉合歡	Trunk damaged	Transplanted		✓
HA232	Acacia confusa	台灣相思	Dead tree	Existing	✓	
HA236	Acacia auriculiformis	耳果相思	Trunk damaged	Existing		✓
HA247	Eucalyptus torelliana	毛葉桉	Dead tree	Transplanted		✓
HA253	Acacia auriculiformis	耳果相思	Dead tree	Transplanted	✓	
HA254	Eucalyptus torelliana	毛葉桉	Dead tree	Transplanted		✓
HA255	Acacia auriculiformis	耳果相思	Dead tree	Transplanted		✓
HA256	Acacia auriculiformis	耳果相思	Dead tree	Transplanted	✓	
HA260	Acacia confusa	台灣相思	Trunk damaged	Transplanted		✓
HA265	Acacia auriculiformis	耳果相思	Dead tree	Transplanted		✓
HA266	Acacia confusa	台灣相思	Dead tree	Transplanted	✓	
HA273	Acacia auriculiformis	耳果相思	Dead tree	Transplanted	✓	
HB47	Acacia auriculiformis	耳果相思	Dead tree	Existing	✓	
HB28	Bauhinia blakeana	洋紫荊	Trunk damaged, leaning	Existing		✓
HB53	Acacia confusa	台灣相思	Bark damaged, sprouts	Existing	✓	
HB86	Acacia auriculiformis	耳果相思	Dead tree	Existing	✓	
HB87	Acacia auriculiformis	耳果相思	Trunk damaged, leaning	Existing		✓
U1	Acacia auriculiformis	耳果相思	Trunk damaged	Existing	✓	
U2	Acacia auriculiformis	耳果相思	Trunk damaged	Existing		✓

Summary of Damaged/Dead Trees to be Felled inside Ha Tsuen Sewage Pumping Station Area







Tree No.	Species	Chinese Name	Condition	Existing/Transplanted	Damage/Dead Caused by Typhoon on 14 August 2013	Damage/Dead Caused by Typhoon on 23 Sept 2013
U3	Acacia auriculiformis	耳果相思	Trunk damaged	Existing		✓
U4	Acacia auriculiformis	耳果相思	Dead tree	Existing		✓
U5	Acacia auriculiformis	耳果相思	Dead tree	Existing	✓	
U6	Acacia auriculiformis	耳果相思	Dead tree	Existing	✓	
U7	Acacia auriculiformis	耳果相思	Dead tree	Existing		✓
U8	Acacia confusa	台灣相思	Trunk damaged	Existing	✓	
U9	Acacia confusa	台灣相思	Trunk damaged	Existing	✓	
U10	Acacia confusa	台灣相思	Trunk damaged	Existing	✓	
2	Acacia auriculiformis	耳果相思	Trunk damaged	Existing		✓
3	Acacia auriculiformis	耳果相思	Dead tree	Existing	✓	
6	Acacia auriculiformis	耳果相思	Dead tree	Existing	✓	
				TOTAL	20	15

Appendix D

Programme of Tree Felling

Contract No. DC/2009/08
Construction of Yuen Long South Branch Sewers and Expansion of Ha Tsuen Sewage Pumping Station

Activity ID	Description	Orig Dur	Rem Dur	Early Start	Early Finish																												
						2013				2014								2015															
						SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL					
1180	Summary of programme of tree felling at HTSPS	1 *	1 *	12OCT13	12OCT13																												
1190	Mobilize equipment and plant on site	1	1	12OCT13	12OCT13																												
1191	Fell damaged/dead trees	1	1	12OCT13	12OCT13																												
1200	Dispose felled trees	1	1	12OCT13	12OCT13																												
1210	Demobilize equipment and plant	1	1	14OCT13	14OCT13																												
1220	Tidy up tree felling area	1	1	14OCT13	14OCT13																												

Start date	12OCT13	 Early bar
Finish date	14OCT13	 Progress bar
Run date	29NOV13	 Critical bar
Page number	1A	 Summary bar
Company name	CSHK	 Start milestone point
	c Primavera Systems, Inc.	 Finish milestone point

Programme of Tree Felling at Ha Tsuen Sewage Pumping Station