

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-SIXTH RESULTS OF LANDSCAPE AND VISUAL IMPACT MONITORING FOR NOVEMBER 2013 (NO.46)

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)
11 March 2014	TCS00491/09/600/R0535v2	73	Amn_

Version	Date	Description				
1	13 February 2014	First submission				
2	11 March 2014	Amended against IEC's comments on 10 March 2014				

This report has been prepared by Action-United Environmental Services & Consulting with all reasonable skill, care and diligence within the terms of the Agreement with the client, incorporating our General Terms and Conditions of Business and taking account of the resources devoted to it by agreement with the client. We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above. This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies upon the report at their own risk.

### 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

EB000586-F/THW14-16029

Your Ref:

Our Ref:



14 March 2014

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.

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, November and December 2013 – IEC Verification

With reference to ET's captioned Landscape and Visual Impact sections of monthly EM&A Report of the reporting months, November 2013 (ET's ref.: TCS0491/09/600/R0535v2) and December 2013 (ET's ref.: TCS0491/09/600/R0536v2) submitted on 11 March 2014, we have no further comment and hereby verify the captioned Landscape and Visual Impact sections of the monthly EM&A Reports.

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-sixth (No. 46) LVIM Results, covering the construction period from 1 to 30 November 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 On 18 November 2013, a total of 26 nos. of trees were fallen under instruction of DSD. The summary of tree number and species for those trees were attached with the site inspection checklist.
- 2.04 DSD has confirmed to plant a total of 42 nos. of new trees and the Tree Compensatory Planting Plan is prepared and attached with the checklists. The new trees species as follow:
  - 10 nos. of Litsea glutlnosa
  - 10 nos. of Schlma superba
  - 12 nos. Bichofla polycarpa
  - 10 nos. of Cinnamomum burmanil

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



The Forty-sixth Results of Landscape and Visual Impact Monitoring for November 2013 (No.46)

## 3. STRUCTURE OF THE LVIM RESULTS

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

1. INTRODUCTION 1

2. LVIM RESULTS 1

APPENDIX A SITE INSPECTION CHECKLIST



# Appendix A

**Site Inspection Checklist** 

**Contract No.:** 

DC/2009/08

Contract title: Contractor:		Construction of Yuen Long South Sewer and Expansion of Ha Tsuen Sewage Pumping Station					
		China State Construction Engrg. (HK) Ltd.					
<b>Location:</b>		Ha Tsuen Sewage Pumping Station					
Ins	pection Date:	15-Nov-2013					
			S	atisfacto	ry	Rectified	
	_		N/A	Yes	No	Yes No	Remarks
I. (	General						
1.	Erect hoarding	g around site boundary properly	Ш	$\checkmark$	Ш		
2.	Keep well ma	intenance of hoarding		$\checkmark$		<pre></pre>	
3.	All constructi	on works are carried out within site boundary properly		$\checkmark$		<u> </u>	
4	Carry out the	initial tree survey prior to construction		$\checkmark$		<pre></pre>	
5	Provide tree la	abels according to tree survey records		$\checkmark$		<pre></pre>	
Co	mments:						
Sta	ndard hoarding	was erected and well maintained around the works area a	nt Ha Tsue	en Sewag	e Pumpir	ng Station (HTSPS).	
The	e construction h	as no implication to protected tree.					
II.	Transplanting	Works					
1.	All transplant specifications	ing works are carried out in accordance with the		✓		✓	
2.		ted trees are kept in regular inspection within the		✓		<b>/</b>	
3.	The transplan	ted trees are kept in maintenance thoughout the estanlish	ıment peri	od as fol	lowings:		
	(i) Watering		<b>✓</b>		П		
	(ii) Weeding		<b>✓</b>			一一一	
	(iii) Fertilising	g	<b>✓</b>			一一一	
	(iv) Littering		<b>√</b>				
	(v) Grass cutt	ing	$\checkmark$				
	(vi) Firming u	ір	<b>✓</b>				
	(vii) Pest cont	trol	$\checkmark$				
	(viii) Disease	control	$\checkmark$				
	(ix) Pruning		<b>√</b>				
	(x) Replacement	ent	<b>√</b>				
Coı	mments:						
The	ere had total 73	nos. of transpalnted trees in Ha Tsuen Sewage Pumping	Station du	e to cons	truction	works under this cor	ntact.
All	tree have been	handover back to DSD.					
III.	Landscaping	Works					
1.	All landscapin	ng works are carried out in accordance with the		<b>✓</b>		<u> </u>	
2.	The landscapi	ing plants are kept in regular inspection within the period		<b>✓</b>		<u> </u>	

			Satisfacto	ory	Red	ctified	
_		N/A	Yes	No	Yes	No	Remarks
3.	The landscaping plants are kept in maintenance thoughout the estanlis	shment po	eriod as f	ollowing	s:		
	(i) Watering		$\checkmark$		<b>V</b>		
	(ii) Weeding		$\checkmark$		<b>V</b>		
	(iii) Fertilising		$\checkmark$		$\checkmark$		
	(iv) Littering		$\checkmark$		$\checkmark$		
	(v) Grass cutting		$\checkmark$		$\checkmark$		
	(vi) Firming up		$\checkmark$		$\checkmark$		
	(vii) Pest control		$\checkmark$		$\checkmark$		
	(viii) Disease control		$\checkmark$		$\checkmark$		
	(ix) Pruning		$\checkmark$		$\checkmark$		
	(x) Replacement		$\checkmark$		$\checkmark$		
Coı	nments:						
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	$\checkmark$					
2.	All preserved trees are fenced off properly	$\checkmark$					
3.	No construction activities are carried out in the protection zone of the preserved trees	<b>✓</b>					
Cor	nments:						
All	retained trees were fenced off and protected properly within the works ar	ea of the	site. DSI	) is carry	ing out t	he pres	ervation
and	protection.	iii-					
Cor	clusion						
Lan	dscaping sub-contractor fell and removed total of 35 nos. damaged trees	on 12/10	/2013. Di	rainage S	ervice D	epartme	ent confirmed to plant to
	os. new trees with the following species:						
10 r	os. of Litsea glutlnosa (潺槁樹)						
10 n	os. of Schlma superba (木荷)						
12 n	os. of Bichofla polycarpa (重陽木)						
10 n	os. Cinnamomum burmanil (陰香)						
Ren	narks						
	Signatures:						
	Senior landscape Architect  (Name: David Bloxham)						









Contract No.:		DC/2009/08					
Construction of Yuen Long South Sewer and Ex		Construction of Yuen Long South Sewer and Expansion	n of Ha T	suen Sew	age Pum	ping Station	_
Co	ntractor:	China State Construction Engrg. (HK) Ltd.					
Lo	cation:	Ha Tsuen Sewage Pumping Station					
Ins	spection Date:	29-Nov-2013					
			S	atisfacto	ry	Rectified	
			N/A	Yes	No	Yes No	Remarks
I. (	General						
1.	Erect hoarding	g around site boundary properly		$\checkmark$		<b>√</b>	
2.	Keep well ma	intenance of hoarding		$\checkmark$		✓	
3.	All constructi	on works are carried out within site boundary properly		$\checkmark$		✓ <u> </u>	
4	Carry out the	initial tree survey prior to construction		$\checkmark$		✓	
5	Provide tree la	abels according to tree survey records		$\checkmark$		✓	
Co	mments:						
Sta	ndard hoarding	was erected and well maintained around the works area a	nt Ha Tsue	en Sewag	e Pumpir	ng Station (HTSPS).	
The	e construction h	as no implication to protected tree.					
II.	Transplanting	Works					
1.	All transplant specifications	ing works are carried out in accordance with the		<b>√</b>		<u> </u>	
2.	The transplan establishment	ted trees are kept in regular inspection within the period		✓		<u> </u>	
3.	The transplan	ted trees are kept in maintenance thoughout the estanlish	ıment peri	iod as fol	lowings:		
	(i) Watering		✓				
	(ii) Weeding		<b>✓</b>	一			_
	(iii) Fertilising	o de la companya de l	<b>✓</b>	$\exists$			_
	(iv) Littering		<b>✓</b>	$\Box$			
	(v) Grass cutt	ing	✓	一	一		
	(vi) Firming u		<b>✓</b>	一	一	一一	
	(vii) Pest cont	rol	<b>✓</b>	一	同	一一	
	(viii) Disease	control	<b>√</b>				
	(ix) Pruning		<b>√</b>				
	(x) Replacement	ent	$\checkmark$				
Co	mments:						
The	ere had total 73	nos. of transpalnted trees in Ha Tsuen Sewage Pumping	Station du	ie to cons	struction	works under this con	tact.
All	All tree have been handover back to DSD.						
III	. Landscaping	Works					
1.	All landscapin	ng works are carried out in accordance with the		✓		✓ <u> </u>	
2.	The landscapi	ng plants are kept in regular inspection within the period		✓		<u> </u>	

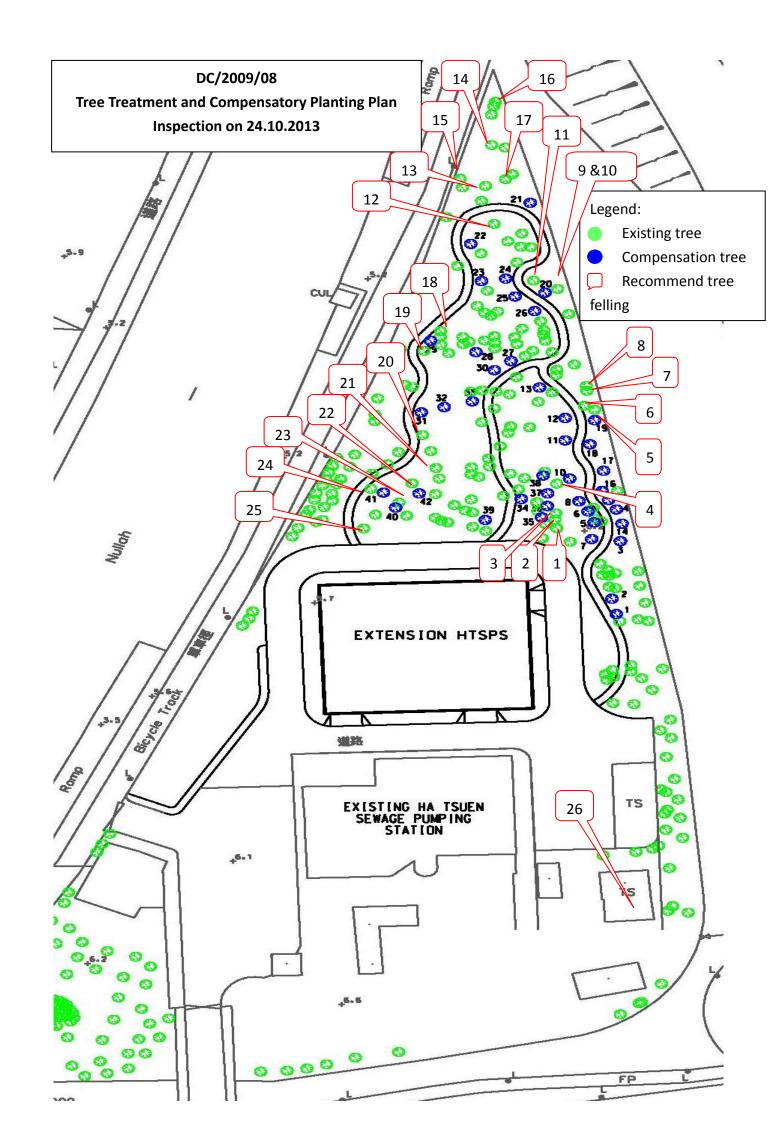
		Satisfacto	ry	Rectified	
	N/A	Yes	No	Yes No	Remarks
3. The landscaping plants are kept in maintenance thoughout the esta	anlishment pe	eriod as fo	llowings	:	10. ***
(i) Watering		$\checkmark$		<b>V</b>	
(ii) Weeding		$\checkmark$		$\checkmark$	
(iii) Fertilising		$\checkmark$		$\checkmark$	
(iv) Littering		$\checkmark$		✓	
(v) Grass cutting		$\checkmark$		$\checkmark$	
(vi) Firming up		$\checkmark$		$\checkmark$	
(vii) Pest control		$\checkmark$		$\checkmark$	
(viii) Disease control		$\checkmark$		$\checkmark$	
(ix) Pruning		$\checkmark$		✓	
(x) Replacement		$\checkmark$		<b>✓</b>	
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 specification	ons 🗸				-
2. All preserved trees are fenced off properly	$\checkmark$				
<ol> <li>No construction activities are carried out in the protection zone of the preserved trees</li> </ol>	he 🗸				
Comments:					
All retained trees were fenced off and protected properly within the work	s area of the	site. DSD	is carry	ing out the pres	ervation
and protection.					
Conclusion					
Landscaping sub-contractor fell and removed total of 35 nos. damaged tr	rees on 12/10/	/2013. Dr	ainage Se	ervice Departme	ent confirmed to plant
42 nos. new trees with the following species:			Ü		· ·
10 nos. of Litsea glutlnosa (潺槁樹)					
10 nos. of Schlma superba (木荷)					
12 nos. of Bichofla polycarpa (重陽木)					
10 nos. of Cinnamomum burmanil (陰香)					
26 nos. of trees were felled and removed on 18 November 2013 under ins	struction of D	rainage S	ervice D	epartment.	
Remarks					
Remarks					
Signatures:					
Senior landscape Architect					
DNZ					
(Name: David Bloxham )					











# Summary of Trees Felled on 18/11/2013 inside Ha Tsuen Sewage Pumping Station Area

Tree No.	Species	Chinese Name	Existing/Transplanted
HA188	Acacia auriculiformis	耳果相思	Existing
AB208	Acacia auriculiformis	耳果相思	Existing
AB220	Acacia auriculiformis	耳果相思	Existing
LM854	Acacia auriculiformis	耳果相思	Existing
HB3	Acacia auriculiformis	耳果相思	Existing
HB4	Acacia auriculiformis	耳果相思	Existing
HB6	Delonix Regia	鳳凰木	Existing
HB8	Delonix Regia	鳳凰木	Existing
HB70	Acacia Confusa	台灣相思	Existing
HB73	Acacia auriculiformis	耳果相思	Existing
HB16	Acacia Confusa	台灣相思	Transplanted
HB20	Acacia auriculiformis	耳果相思	Existing
HB21	Acacia auriculiformis	耳果相思	Existing
HB43	Acacia auriculiformis	耳果相思	Existing
HB39	Eucalyptus Robusta	大葉桉	Existing
HB38	Acacia auriculiformis	耳果相思	Existing
HB28	Acacia auriculiformis	耳果相思	Existing
HB43	Acacia auriculiformis	耳果相思	Existing
HB67	Acacia auriculiformis	耳果相思	Existing
HB71	Acacia auriculiformis	耳果相思	Existing
HB96	Acacia auriculiformis	耳果相思	Existing
HA214	Eucalyptus	毛葉桉	Transplanted
HB94	Acacia auriculiformis	耳果相思	Existing
HA205	Acacia Confusa	台灣相思	Transplanted
HA199	Acacia auriculiformis	耳果相思	Existing
HA314	Acacia Mangium	馬占相思	Existing