

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 TWENTY-THIRD RESULTS OF LANDSCAPE AND VISUAL IMPACT MONITORING FOR DECEMBER 2011 (No.23)

PREPARED FOR

CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) COMPANY LIMITED

Quality Index

Date	Reference No.	Prepared By Certified By			
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		1999	1		

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Our Ref:



10 September 2012

By E-mail

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Unit A, 20/F, Gold King Industrial Building, 35-41 Tai Lin Pai Road,
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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, October

2011 to January 2012 - IEC Verification

With reference to ET's captioned Landscape and Visual Impact section of monthly EM&A reports for four reporting months, October 2011 to January 2012 inclusive (ET's ref.: TCS0491/09/600/R00341v1, TCS0491/09/600/R00342v1, TCS0491/09/600/R00343v1, and TCS0491/09/600/R00344v1, all dated 7 March 2012) received on 5 September 2012, we have no comment and hereby verify the captioned Landscape and Visual Impact section of monthly EM&A reports.

Should there be any queries, please feel free to contact us.

Yours sincerely,

F.C. TSANG

Independent Environmental Checker HYDER CONSULTING LIMITED

FCT/my

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

The Twenty-Third Results of Landscape and Visual Impact Monitoring for December 2011 (No.23)



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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 twenty-third (No. 23) LVIM Results, covering the construction period from 1 to 31 December 2011 (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.

3. **RECOMMENDATIONS**

- 3.01 The trees at Ha Tsuen Pumping Station have been handed over to DSD since January 2011for management and monitoring thereafter.
- 3.02 Dead trees were found during the Results Period. In order to alleviate land scape and visual impacts under the Project, the tree manager is recommended to remove and replace the dead trees as appropriate.
- 3.03 Trees in poor condition were also observed during the Result Period. More frequent watering or fertilizing and even further investigation on the tree conditions may need to be undertaken by the tree manager to improve living conditions of those poor trees.



Appendix A

Site Inspection Checklist

Contract title:		Construction of Yuen Long South Sewer and Expansion of Ha Tsuen Sewage Pumping Station							
Cor	itractor:	China State Construction Engrg. (HK) Ltd.							
Loc	eation:	Ha Tsuen Sewage Pumping Station							
Insp	pection Date:	15-Dec-2011							
			S	atisfacto	гу	Rect	ified		
T			N/A	Yes	No	Yes	No	Re	marks
5	General		_		_				
1.	Erect hoarding	g around site boundary properly		✓		\checkmark			
2.	Keep well ma	intenance of hoarding		\checkmark		\checkmark			
3.	All construction	on works are carried out within site boundary properly		1		\checkmark			
4	Carry out the	initial tree survey prior to construction		\checkmark		\checkmark			
5	Provide tree la	abels according to tree survey records		\checkmark		\checkmark			
Con	nments:								
Star	ndard hoarding	was erected and well maintained around the works area at	Ha Tsue	n Sewage	Pumpin	g Station	(HTSPS).	
The	contruction ha	s no implication to protected tree.							
II.	Transplanting •	Works							
1.	All transplants	ng works are carried out in accordance with the		✓		1	Ш.		
2.	The transplant establishment	red trees are kept in regular inspection within the period		✓		1			
3.	The transplant	ed trees are kept in maintenance thoughout the establish	nent perio	od as foll	owings:				
	(i) Watering		\checkmark						
	(ii) Weeding		✓						
	(iii) Fertilising		✓						
	(iv) Littering		✓						
	(v) Grass cutti	ng	✓						
	(vi) Firming u	p	\checkmark						
	(vii) Pest cont	rol	\checkmark					4	
	(viii) Disease	control	\checkmark						
	(ix) Pruning		\checkmark						
	(x) Replaceme	ent	✓						
Con	nments:								
The	re had total 73	nos. of transpalnted trees in Ha Tsuen Sewage Pumping S	tation du	e to const	truction v	vorks un	der this c	ontract.	
All	tree have been l	nandover back to DSD.							
III.	Landscaping \	Vorks							
1.	All landscapir specifications	g works are carried out in accordance with the		✓		/	□.		
2.	The landscapi establishment	ng plants are kept in regular inspection within the period		✓		√		_	

Contract No.:

DC/2009/08

Distriction		S	Satisfacto	ry	Rec	tified	
		N/A	Yes	No	Yes	No	Remarks
3.	The landscaping plants are kept in maintenance thoughout the establish	nment per	riod as fo	llowings	:		
	(i) Watering		\checkmark		\checkmark		
	(ii) Weeding		\checkmark		\checkmark		
	(iii) Fertilising		\checkmark		\checkmark		
	(iv) Littering		\checkmark		\checkmark		
	(v) Grass cutting		\checkmark		V		No.
	(vi) Firming up		\checkmark		\checkmark		No.
	(vii) Pest control		\checkmark		1		
	(viii) Disease control		\checkmark		\checkmark		
	(ix) Pruning		\checkmark		\checkmark		
	(x) Replacement		\checkmark		\checkmark		
Cor	mments:						
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					(1
3.	No construction activities are carried out in the protection zone of the preserved trees	\checkmark					3
Cor	nments:						
All	retained trees were fenced off and protected properly within the works are	ea of the	site. DSD	is carry	ing out t	he prese	ervation
and	protection.						
Cor	nclusion						
	nerally, the overall conditions are normal in the transplanting and visual in	npact at I	Ha Tsuen	Sewage	Pumping	g Statio	n. The conditions
	oarding was satisfactory. The trees which are at Ha Tsue Pumping Station						
	monitoring in January2011.						
	•						
Rer	narks	2 / /L HISKO					
Dur	ing inspection it is noted that some of the trees transplanted are of low su	rvival rat	e. Some t	rees are i	now ider	ntified a	s dead trees
on s	ite they should be removed to prevent any safety hazard of falling within	the work	s area or	spreading	g pests &	diseas	e to other trees.
	Signatures:				HE KY MIC		
	Senior Landscape Architect						

(Name: David Bloxham MLI (UK Chartered))

Landscape and Visual Impact Assessment Site Inspection Checklist

Contract No.:		DC/2009/08					
Contract titl	e:	Construction of Yuen Long South Sewer and Expansion	n of Ha Ts	uen Sewa	age Pump	oing Station	
Contractor:		China State Construction Engrg. (HK) Ltd.					
Location:		Ha Tsuen Sewage Pumping Station					
Inspection D	ate:	29-Dec-2011					
			S	atisfacto	ry	Rectified	
I Consul			N/A	Yes	No	Yes No	Remarks
I. General	ordino	around site houndary aronaly					
1. Erect ho	arumg	around site boundary properly	Ш	Ľ	Ш		
2. Keep we	ell mai	ntenance of hoarding		\checkmark		√	
3. All cons	tructio	n works are carried out within site boundary properly		\checkmark		✓	19
4 Carry or	it the i	nitial tree survey prior to construction		\checkmark		/	
5 Provide	tree la	bels according to tree survey records		\checkmark		√	
Comments:							
Standard hoa	rding v	was erected and well maintained around the works area a	it Ha Tsue	n Sewage	Pumpin	g Station (HTSI	PS).
All trees were	labell	ed as requirement.					
II. Transplan	nting '	Works					
All trans specifica		ng works are carried out in accordance with the		\checkmark		✓	
The tran establish		ed trees are kept in regular inspection within the period		\checkmark		V	
The tran	splant	ed trees are kept in maintenance thoughout the establish	ment perio	od as follo	owings:		
(i) Wate			·	П	\Box		
(ii) Wee	ding		_			一一	
(iii) Fert	ilising		\checkmark				
(iv) Litte	ering		1				
(v) Gras	s cutti	ng	✓				
(vi) Firn	ning up	9	\checkmark				****
(vii) Pes	t conti	rol	\checkmark				
(viii) Di	sease o	control	1				
(ix) Prui	ning		1				
(x) Repl	aceme	nt	\checkmark				
Comments:							
There had tot	al 73 n	os. of transpalnted trees in Ha Tsuen Sewage Pumping S	Station due	e to const	ruction w	orks under this	contract.
Watering and	weed	ing should be undertaking periodically.					
III. Landsca	ping V	Vorks					
All lands specifica		g works are carried out in accordance with the		\checkmark		V	
2. The land establish		ng plants are kept in regular inspection within the period		\checkmark		/	
			9	atisfacto	rv	Rectified	
			N/A	Yes	No	Yes No	Remarks
3. The land	lecani	ng plants are kept in maintenance thoughout the establisl				103 110	Remarks
(i) Wate		15 praints are rept in maintenance moughout the establish			lowings:	✓	

ELVI COLOR		S	Satisfactor	У	Rect	ified	
		N/A	Yes	No	Yes	No	Remarks
3.	The landscaping plants are kept in maintenance thoughout the establish	nment pe	riod as fol	lowings			
	(i) Watering		\checkmark		\checkmark		Parline
	(ii) Weeding		\checkmark		\checkmark		
	(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		
Cor	mments:						
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	\checkmark					
Cor	nments:						
All	retained trees were fenced off and protected properly within the works are	ea of the	site. DSD	is carryi	ng out th	e prese	rvation
and	protection.						
Cor	nclusion						
Ger	erally, the overall conditions are normal in the transplanting and visual in	npact at I	Ha Tsuen	Sewage	Pumping	Station	n. The conditions
of h	oarding was satisfactory. The trees which are at Ha Tsue Pumping Station	n have be	en returne	ed to Dra	inage Se	rvices I	Department managemei
and	monitoring in January 2011.						
D	narks						
	ing inspection it is noted that some of the trees transplanted are of low sur	rvival rat	e Some t	rees are t	ow iden	tified a	s dead trees
	ite they should be removed to prevent any safety hazard of falling within						
OH S	the they should be removed to prevent any statety hazard or ranning within	the work	o area or i	produing	5 pesis ce	arocus	o to other trees.
-	Signatures:					WI	
	Senior Landscape Architect						

(Name: David Bloxham MLI (UK Chartered))

















DC/2009/08 Construction of Yuen Long South Branch Sewers and Expansion of Ha Tsuen Sewage Pumping Station

Up-dated on: 29 December 2011

Summary of Dead Transplanted Trees in Ha Tsuen Sewage Pumping Station

		Size					
Tree No.	Tree Spec	Tree Species		Trunk Dia. (mm)	Spread (m)		
HA202	Melia azedarach	森樹	6	111	3		
HA203	Eucalyptus torelliana	毛葉桉	8	143	3		
HA216	Acacia auriculiformis	耳果相思	7	201	3		
HA226	Acacia auriculiformis	耳果相思	6	131	4		
HA227	Acacia auriculiformis	耳果相思	8	242	3		
HA245	Acacia confusa	台灣相思	7	137	3		
HA255	Acacia auriculiformis	耳果相思	8	201	3		
HA257	Acacia confusa	台灣相思	7	217	3		
HA265	Acacia auriculiformis	耳果相思	6	188	3		
HA273	Acacia auriculiformis	耳果相思	5	290	4		

Proposed species to replace dead transplanted trees:

- (1) Melaleuca quinquenervia 白千層 Trunk diameter 60 ~ 70mm
- (2) Bauhinia variegata 宮粉羊蹄甲 Trunk diameter 60 ~ 70mm