

# Landscape and Visual (L&V) Monitoring Report for Harbour Area Treatment Scheme Stage 2A (Operational Phase) (September 2022)

Report No.: OT\_2022012

Prepared by : \_\_\_\_\_

Tang Chung Hang, Frankie

Reviewed by : \_\_\_\_\_

Lo Ting Yi, Ivy

# Landscape and Visual (L&V) Monitoring Report for Harbour Area Treatment Scheme Stage 2A (Operational Phase) (September 2022)



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#### 1. Introduction

# 1.1. Background

- 1.1.1. Bestwise Sun Fook Kong Joint Venture (the Contractors) appointed 3NV Technology Limited (3NV) to undertake the Landscape and Visual Monitoring for the Operational Phase of the "Enhancement of Deodourisation System at Stonecutters Island Sewage Treatment Works" (hereafter referred to as "the Project").
- 1.1.2. The Project is part of the Harbour Area Treatment Scheme (HATS) Stage 2A. According to Environmental Permit No. EP-322/2008/G issued on 9th May 2014 by the Environmental Protection Department (hereinafter called EPD) to the Drainage Services Department (hereinafter called the DSD) as the Permit Holder and the EM&A Manual for the HATS Stage 2A, all landscape and visual mitigation measures shall be monitored monthly on-site during the first year of the Operational Phase at 8 preliminary treatment works (PTW) and the Stonecutters Island Sewage Treatment Works (SCISTW).

#### 1.2. Objectives

1.2.1. The objective is to monitor and audit the contractor's landscape works, in particular, to ensure the existing trees retained on-site are being well preserved, tree transplanting and felling operations are being undertaken in accordance with the requirements, procedures, and specifications as stipulated in the contract and the approvals granted by concerned authorities, and all the newly planted vegetations are being maintained properly during the establishment period.

## 2. Landscape and Visual (L&V)

#### 2.1. Monitoring Requirement

Under the EM&A Manual, Landscape and Visual Monitoring audit should be undertaken during the first year of the Operational Phase to ensure and check that the implementation and maintenance of landscape and visual mitigation measures are carried out by a Registered Landscape Architect (RLA).

#### 2.2. Monitoring Frequency

2.2.1. Site inspections should be undertaken once every month through the first year of the Operational Phase.



#### 2.3. Monitoring Locations

2.3.1. Under this Project, there are 8 PTW and SCISTW that should be monitored. The details of the monitoring location are summarized in **Table 1.1**.

**Table 1.1 L&V Monitoring Locations** 

No.	Description
1	North Point PTW
2	Wan Chai East PTW
3	Central PTW
4	Sandy Bay PTW
5	Cyberport PTW
6	Wah Fu PTW
7	Aberdeen PTW
8	Ap Lei Chau PTW
9	Stonecutters Island STW

## 2.4. Monitoring Methodology

2.4.1. A Registered Landscape Architect is employed to monitor and audit the contractor's landscape works, in particular, to ensure the existing trees retained on-site are being well preserved, tree transplanting and felling operations are being undertaken in accordance with the requirements, procedures, and specifications as stipulated in the contract and the approvals granted by concerned authorities, and all the newly planted vegetations are being maintained properly during the establishment period by complete a checklist.



## 3. L&V Monitoring Result

## 3.1. Inspection Result

3.1.1. Two new observations were found at Cyberport PTW and Ap Lei Chau PTW. Seven observations from last inspection had been follow up at Ap Lei Chau PTW, Wah Fu PTW, Cyberport PTW, Sandy Bay PTW and Stonecutters Island STW. The completed checklist is shown in **Appendix A**.

#### 3.2. Result Discussion

3.2.1. Generally, all L&V mitigation measures listed in EM&A were applied at 8 PTWs and SCISTW. **Table 3.1** summarized the reminders and new observations of the 8 PTWs and SCISTW.

Table 3.1 Summary of Reminders and New Observations for the 8 PTWs and SCISTW

SCIST VV		
Monitoring Location	Reminders	New Observations
North Point PTW	<ol> <li>Carry out proper maintenance to plantings</li> <li>Increase the frequency of watering in the period of extreme hot weather</li> </ol>	N/A
Wan Chai East PTW	<ol> <li>Carry out proper maintenance to plantings</li> <li>Increase the frequency of watering in the period of extreme hot weather</li> </ol>	N/A
Central PTW	<ol> <li>Keep maintenance and pay attention to the plant conditions on the marked tree near site entrance.</li> <li>Increase the frequency</li> </ol>	N/A



Sandy Bay PTW N/A N/A  1. Keep maintenance of pot plants 2. Increase the frequency of watering in the period of extreme hot weather.  1. Carry out proper maintenance to plantings  Aberdeen PTW  Ap Lei Chau PTW		_	
Sandy Bay PTW  N/A  1. Keep maintenance of pot plants 2. Increase the frequency of watering in the period of extreme hot weather  1. Carry out proper maintenance to plantings  Wah Fu PTW  Aberdeen PTW  Ap Lei Chau PTW  Ap Lei C			
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weather dead twigs.  1. Carry out proper Stonecutters maintenance to plantings  N/A		period of extreme hot	provide trimming to the
Stonecutters maintenance to N/A sland STW plantings		weather	dead twigs.
Stonecutters maintenance to N/A sland STW plantings		1. Carry out proper	
Island STW plantings	Stonecutters	maintenance to	
	Island STW	plantings	N/A
2. Increase the frequency		2. Increase the frequency	

# Landscape and Visual (L&V) Monitoring Report for Harbour Area Treatment Scheme Stage 2A (Operational Phase) (September 2022)



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- End of Report -



Appendix A

**L&V** Checklist



# <u>Landscape and Visual Impact Assessment Checklist for Site Audit – North Point PTW</u>

Inspection Date:26/09/2022 Weather: Sunny/Fine/Cloudy / Rainy
Time: 9:15 Wind: Strong/Breeze/Light/Calm

Item	Description	Yes	No	N/A	Actions / Remarks
1	Aesthetic design of the façade of PTW and associated structures to harmonize with the surrounding settings				
1.1	Is the aesthetic design match the surrounding environment?	✓			
1.2	Are the buildings maintained properly that do not cause any visual impact?	✓			
2	Shrub and Climbing Plants to soften proposed structures / Roof Greening / Vertical Greening				
2.1	Is the roof greening maintained properly?	✓			
2.2	Is the vertical greening maintained properly?			<b>√</b>	
2.3	Are the Shrub and Climbing Plants free from sign of deterioration of health?	<b>&gt;</b>			
3	Buffer Tree and Shrub Planting to screen proposed associated structures				
3.1	Are the health of those buffer trees and shrub plantings generally in order?	✓			
3.2	Is all new planting maintained properly to ensure further establishment?	✓			
4	Reinstatement of disturbed area				
4.1	Are the compensated planting covered the disturbed area?	✓			
5	Others				
5.1	Are existing trees retained on-site are being well preserved?	✓			
5.2	Are newly planted vegetations are being generally maintained during the establishment period (12 months)?				



Follow up action taken by Contractor for previous comments:

- N/A

The contractor was reminded to rectify the following:

- N/A

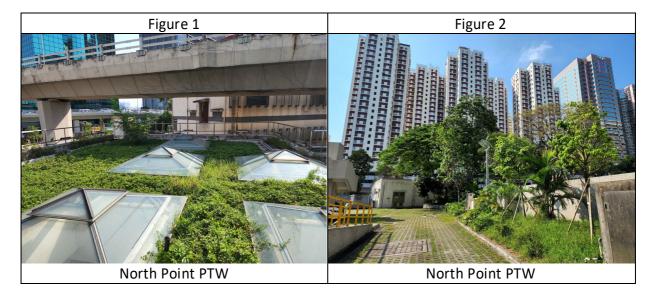
#### **New Observation:**

No Particular Observations.

#### **Reminders:**

 Contractor was reminded to carry out proper maintenance to plantings and was recommended to further increase the frequency of watering in the period of extreme hot weather.

#### Photo Record:



		Signature	Date
Inspected & Recorded by	Registered Landscape Architect	Dayme	26-Sep-2022



# Landscape and Visual Impact Assessment Checklist for Site Audit –Ap Lei Chau PTW

Inspection Date:26/09/2022 Weather: Sunny/Fine/Cloudy / Rainy
Time: 9:45 Wind: Strong/Breeze/Light/Calm

Item	Description	Yes	No	N/A	Actions / Remarks
1	Aesthetic design of the façade of PTW and				
	associated structures to harmonize with				
	the surrounding settings				
1.1	Is the aesthetic design match the	✓			
	surrounding environment?				
1.2	Are the buildings maintained properly that	<b>√</b>			
	do not cause any visual impact?				
2	Shrub and Climbing Plants to soften				
	proposed structures / Roof Greening /				
	Vertical Greening				
2.1	Is the roof greening maintained properly?	✓			
2.2	Is the vertical greening maintained properly?			✓	
2.3	Are the Shrub and Climbing Plants free from	<b>√</b>			
	sign of deterioration of health?	V			
3	Buffer Tree and Shrub Planting to screen				
	proposed associated structures				
3.1	Are the health of those buffer trees and		<b>√</b>		Refer to Observation
	shrub plantings generally in order?		•		Item No.1
3.2	Is all new planting maintained properly to ensure further establishment?	✓			
4	Reinstatement of disturbed area				
4.1	Are the compensated planting covered the	<b>√</b>			
	disturbed area?	V			
5	Others				
5.1	Are existing trees retained on-site are being	<b>1</b>			
	well preserved?				
5.2	Are newly planted vegetations are being generally maintained during the establishment period (12 months)?		✓		Refer to Rectification Item No.1



## Follow up action taken by Contractor for previous comments:

- N/A

#### The contractor was reminded to rectify the following:

1. Follow up observation item no. on 29/08/2022, one dead tree was observed at entrance area (shown in Figure 1). It is recommended that maintenance party to review if replacement is required.

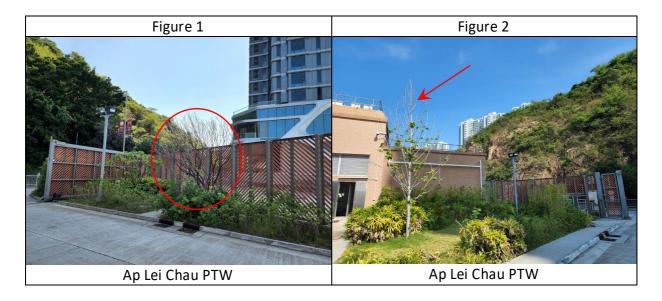
#### **New Observation:**

1. Die back on twigs was observed at entrance area (shown in Figure 2). It is recommended that maintenance party to provide trimming to the dead twigs.

#### **Reminders:**

1. Contractor was reminded to carry out proper maintenance to plantings and was recommended to further increase the frequency of watering in the period of extreme hot weather.

#### Photo Record:



		Signature	Date
Inspected & Recorded by	Registered Landscape Architect	Delym	26-Sep-2022



# **Landscape and Visual Impact Assessment Checklist for Site Audit –Aberdeen PTW**

Inspection Date:26/09/2022Weather: Sunny/Fine/ Cloudy / RainyTime:10:00Wind: Strong/ Breeze/ Light/ Calm

Item	Description	Yes	No	N/A	Actions / Remarks
1	Aesthetic design of the façade of PTW and associated structures to harmonize with the surrounding settings				
1.1	Is the aesthetic design match the surrounding environment?	✓			
1.2	Are the buildings maintained properly that do not cause any visual impact?	✓			
2	Shrub and Climbing Plants to soften proposed structures / Roof Greening / Vertical Greening				
2.1	Is the roof greening maintained properly?	✓			
2.2	ls the vertical greening maintained properly?	✓			
2.3	Are the Shrub and Climbing Plants free from sign of deterioration of health?	<b>√</b>			
3	Buffer Tree and Shrub Planting to screen proposed associated structures				
3.1	Are the health of those buffer trees and shrub plantings generally in order?	✓			
3.2	Is all new planting maintained properly to ensure further establishment?	✓			
4	Reinstatement of disturbed area				
4.1	Are the compensated planting covered the disturbed area?	✓			
5	Others				
5.1	Are existing trees retained on-site are being well preserved?	✓			
5.2	Are newly planted vegetations are being generally maintained during the establishment period (12 months)?				



Follow up action taken by Contractor for previous comments:

- N/A

The contractor was reminded to rectify the following:

- N/A

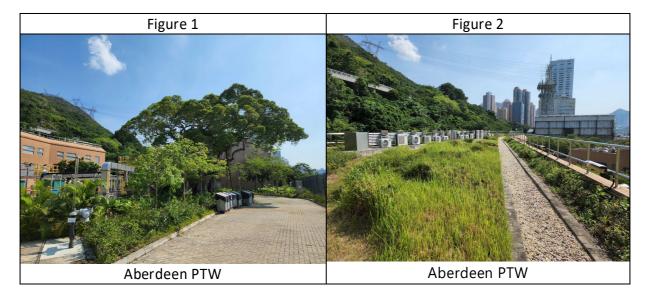
#### **New Observation:**

No Particular Observations.

#### **Reminders:**

1. Contractor was reminded to carry out proper maintenance to plantings and recommended to further increase the frequency of watering in the period of extreme hot weather.

#### Photo Record:



		Signature	Date
Inspected & Recorded by	Registered Landscape Architect	Delym	26-Sep-2022



# Landscape and Visual Impact Assessment Checklist for Site Audit – Wah Fu PTW

Inspection Date:26/09/2022Weather: Sunny/Fine/ Cloudy / RainyTime:10:15Wind: Strong/ Breeze/ Light/ Calm

Item	Description	Yes	No	N/A	Actions / Remarks
1	Aesthetic design of the façade of PTW and associated structures to harmonize with the surrounding settings				
1.1	Is the aesthetic design match the surrounding environment?	✓			
1.2	Are the buildings maintained properly that do not cause any visual impact?	✓			
2	Shrub and Climbing Plants to soften proposed structures / Roof Greening / Vertical Greening				
2.1	Is the roof greening maintained properly?			<b>✓</b>	
2.2	ls the vertical greening maintained properly?			<b>√</b>	
2.3	Are the Shrub and Climbing Plants free from sign of deterioration of health?			✓	
3	Buffer Tree and Shrub Planting to screen proposed associated structures				
3.1	Are the health of those buffer trees and shrub plantings generally in order?	✓			
3.2	Is all new planting maintained properly to ensure further establishment?	✓			
4	Reinstatement of disturbed area				
4.1	Are the compensated planting covered the disturbed area?	✓			
5	Others				
5.1	Are existing trees retained on-site are being well preserved?		✓		Refer to Rectification Item No.1
5.2	Are newly planted vegetations are being generally maintained during the establishment period (12 months)?				



## Follow up action taken by Contractor for previous comments:

- N/A

## The contractor was reminded to rectify the following:

1. Follow up observation item no. on 29/08/2022, dead leaves were observed at the marked tree (as shown in Figure 1). It is recommended that maintenance party to review if pruning is required.

#### **New Observation:**

No Particular Observations.

#### **Reminders:**

1. Contractor was reminded to carry out proper maintenance to plantings and recommended to further increase the frequency of watering in the period of extreme hot weather.

#### Photo Record:



		Signature	Date
Inspected & Recorded by	Registered Landscape Architect	Dayma	26-Sep-2022



# <u>Landscape and Visual Impact Assessment Checklist for Site Audit – Cyberport PTW</u>

Inspection Date:26/09/2022Weather: Sunny/Fine/ Cloudy / RainyTime:10:20Wind: Strong/ Breeze/ Light/ Calm

Item	Description	Yes	No	N/A	Actions / Remarks
1	Aesthetic design of the façade of PTW and associated structures to harmonize with the surrounding settings				
1.1	Is the aesthetic design match the surrounding environment?	✓			
1.2	Are the buildings maintained properly that do not cause any visual impact?	✓			
2	Shrub and Climbing Plants to soften proposed structures / Roof Greening / Vertical Greening				
2.1	Is the roof greening maintained properly?	✓			
2.2	ls the vertical greening maintained properly?	<b>√</b>			
2.3	Are the Shrub and Climbing Plants free from sign of deterioration of health?	<b>√</b>			
3	Buffer Tree and Shrub Planting to screen proposed associated structures				
3.1	Are the health of those buffer trees and shrub plantings generally in order?	✓			
3.2	Is all new planting maintained properly to ensure further establishment?		<b>√</b>		Refer to Rectification Item No.1
4	Reinstatement of disturbed area				
4.1	Are the compensated planting covered the disturbed area?	✓			
5	Others				
5.1	Are existing trees retained on-site are being well preserved?	✓			
5.2	Are newly planted vegetations are being generally maintained during the establishment period (12 months)?		<b>√</b>		Refer to Observation Item No.1



#### Follow up action taken by Contractor for previous comments:

- N/A

#### The contractor was reminded to rectify the following:

1. Follow up observation item no. on 29/08/2022, weeds and undesirable species (*Leucaena leucocephala*) were observed among shrubs planting (Figure 1 & 2). It is recommended to carry out necessary weeding and maintenance work.

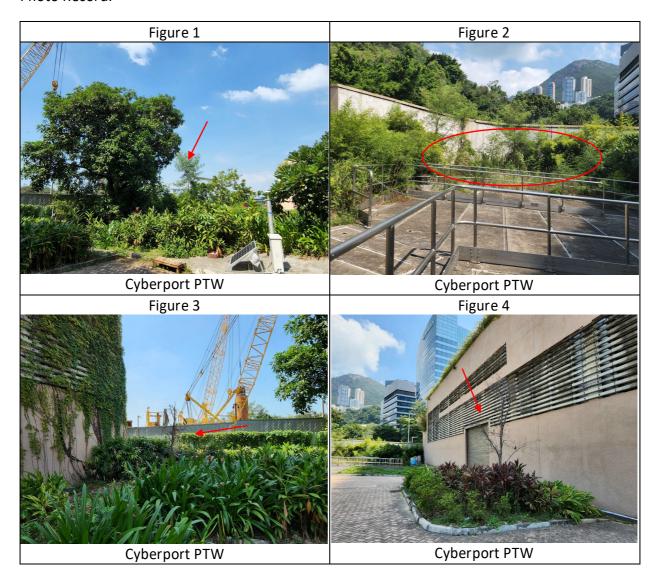
#### **New Observation:**

1. Dead trees were observed (Figures 3 & 4) inside the planting area. It is recommended that maintenance party to review if replacement is required.

#### **Reminders:**

 Contractor was reminded to carry out proper maintenance to plantings and was recommended to further increase the frequency of watering in the period of extreme hot weather.

#### Photo Record:





		Signature	Date
Inspected & Recorded by	Registered Landscape Architect	Dayme	26-Sep-2022



# <u>Landscape and Visual Impact Assessment Checklist for Site Audit – Sandy Bay PTW</u>

Inspection Date:26/09/2022Weather: Sunny/Fine/ Cloudy / RainyTime:10:25Wind: Strong/ Breeze/ Light/ Calm

Item	Description	Yes	No	N/A	Actions / Remarks
1	Aesthetic design of the façade of PTW and				
	associated structures to harmonize with				
	the surrounding settings				
1.1	ls the aesthetic design match the	<b>√</b>			
	surrounding environment?	-			
1.2	Are the buildings maintained properly that	✓			
	do not cause any visual impact?				
2	Shrub and Climbing Plants to soften				
	proposed structures / Roof Greening /				
	Vertical Greening				
2.1	Is the roof greening maintained properly?			✓	
2.2	Is the vertical greening maintained			✓	
2.3	properly?				
2.5	Are the Shrub and Climbing Plants free from sign of deterioration of health?			✓	
3	Buffer Tree and Shrub Planting to screen				
3	proposed associated structures				
3.1	Are the health of those buffer trees and				
5.1	shrub plantings generally in order?	$\checkmark$			
3.2	Is all new planting maintained properly to		<b>√</b>		Refer to Rectification
	ensure further establishment?		•		Item No. 1
4	Reinstatement of disturbed area				
4.1	Are the compensated planting covered the	<b>√</b>			
	disturbed area?	•			
5	Others				
5.1	Are existing trees retained on-site are being	<b>√</b>			
	well preserved?	•			
5.2	Are newly planted vegetations are being				
	generally maintained during the establishment period (12 months)?	✓			



## Follow up action taken by Contractor for previous comments:

- N/A

# The contractor was reminded to rectify the following:

1. Follow up rectification item no.1 on 29/07/2022, the marked tree was removed but the compensation tree is missing. The Contractor is reminded to carry out tree replacement.

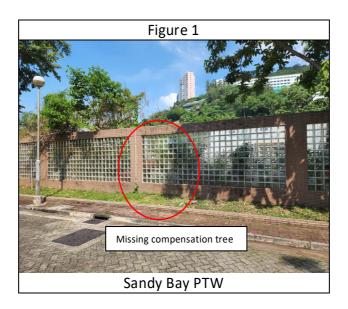
#### **New Observation:**

No particular observations

#### **Reminders:**

- N/A

#### Photo Record:



		Signature	Date
Inspected & Recorded by	Registered Landscape Architect	Dayma	26-Sep-2022



# **Landscape and Visual Impact Assessment Checklist for Site Audit – Central PTW**

Inspection Date:26/09/2022 Weather: Sunny/Fine/Cloudy / Rainy
Time: 10:45 Wind: Strong/Breeze/Light/Calm

Item	Description	Yes	No	N/A	Actions / Remarks
1	Aesthetic design of the façade of PTW and				
	associated structures to harmonize with				
	the surrounding settings				
1.1	ls the aesthetic design match the	✓			
	surrounding environment?	-			
1.2	Are the buildings maintained properly that	✓			
	do not cause any visual impact?				
2	Shrub and Climbing Plants to soften				
	proposed structures / Roof Greening /				
	Vertical Greening				
2.1	Is the roof greening maintained properly?	✓			
2.2	Is the vertical greening maintained properly?	✓			
2.3	Are the Shrub and Climbing Plants free from				
	sign of deterioration of health?	$\checkmark$			
3	Buffer Tree and Shrub Planting to screen				
	proposed associated structures				
3.1	Are the health of those buffer trees and	<b>√</b>			
	shrub plantings generally in order?	V			
3.2	Is all new planting maintained properly to	✓			
_	ensure further establishment?				
4	Reinstatement of disturbed area				
4.1	Are the compensated planting covered the	✓			
	disturbed area?				
5	Others				
5.1	Are existing trees retained on-site are being	✓			
	well preserved?				
5.2	Are newly planted vegetations are being				
	generally maintained during the establishment period (12 months)?	<b>√</b>			



Follow up action taken by Contractor for previous comments:

- N/A

The contractor was reminded to rectify the following:

- N/A

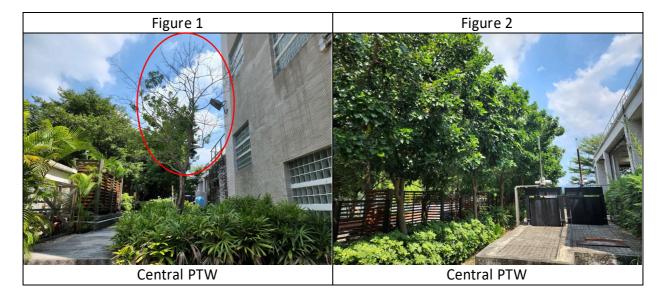
#### **New Observation:**

No Particular Observations.

#### **Reminders:**

1. Contractor was reminded to keep maintenance and pay attention to the plant conditions on the marked tree (Figure 1) and recommended to further increase the frequency of watering in the period of extreme hot weather.

## Photo Record:



		Signature	Date
Inspected & Recorded by	Registered Landscape Architect	Delym	26-Sep-2022



# Landscape and Visual Impact Assessment Checklist for Site Audit – Wan Chai East PTW

Inspection Date:26/08/2022Weather: Sunny/Fine/ Cloudy / RainyTime:11:00Wind: Strong/ Breeze/ Light/ Calm

Item	Description	Yes	No	N/A	Actions / Remarks
1	Aesthetic design of the façade of PTW and associated structures to harmonize with the surrounding settings				
1.1	Is the aesthetic design match the surrounding environment?	✓			
1.2	Are the buildings ma9d properly that do not cause any visual impact?	✓			
2	Shrub and Climbing Plants to soften proposed structures / Roof Greening / Vertical Greening				
2.1	Is the roof greening maintained properly?	✓			
2.2	ls the vertical greening maintained properly?	<b>√</b>			
2.3	Are the Shrub and Climbing Plants free from sign of deterioration of health?	<b>√</b>			
3	Buffer Tree and Shrub Planting to screen proposed associated structures				
3.1	Are the health of those buffer trees and shrub plantings generally in order?	✓			
3.2	Is all new planting maintained properly to ensure further establishment?	✓			
4	Reinstatement of disturbed area				
4.1	Are the compensated planting covered the disturbed area?	✓			
5	Others				
5.1	Are existing trees retained on-site are being well preserved?	✓			
5.2	Are newly planted vegetations are being generally maintained during the establishment period (12 months)?				



Follow up action taken by Contractor for previous comments:

- N/A

The contractor was reminded to rectify the following:

- N/A

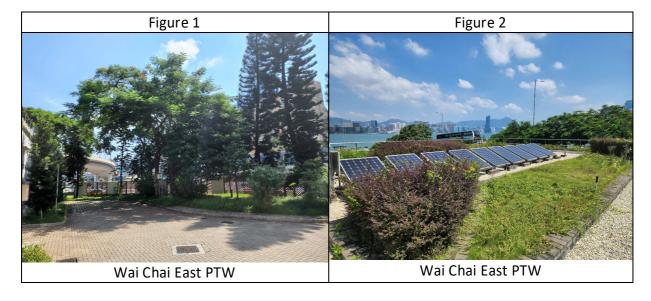
#### **New Observation:**

No Particular Observations.

#### **Reminders:**

1. Contractor was reminded to carry out proper maintenance to plantings and recommended to further increase the frequency of watering in the period of extreme hot weather.

#### Photo Record:



		Signature	Date
Inspected & Recorded by	Registered Landscape Architect	Dayma	26-Sep-2022



# **Landscape and Visual Impact Assessment Checklist for Site Audit – Stonecutters Island PTW**

Inspection Date:26/09/2022 Weather: Sunny/Fine/Cloudy / Rainy
Time: 11:35 Wind: Strong/Breeze/Light/Calm

Item	Description	Yes	No	N/A	Actions / Remarks
1	Aesthetic design of the façade of PTW and associated structures to harmonize with the surrounding settings				
1.1	Is the aesthetic design match the surrounding environment?	✓			
1.2	Are the buildings maintained properly that do not cause any visual impact?	✓			
2	Shrub and Climbing Plants to soften proposed structures / Roof Greening / Vertical Greening				
2.1	Is the roof greening maintained properly?	✓			
2.2	ls the vertical greening maintained properly?	✓			
2.3	Are the Shrub and Climbing Plants free from sign of deterioration of health?	✓			
3	Buffer Tree and Shrub Planting to screen proposed associated structures				
3.1	Are the health of those buffer trees and shrub plantings generally in order?		✓		Refer to Rectification Items No. 1 and No. 2
3.2	Is all new planting maintained properly to ensure further establishment?	<b>√</b>			
4	Reinstatement of disturbed area				
4.1	Are the compensated planting covered the disturbed area?	✓			
5	Others				
5.1	Are existing trees retained on-site are being well preserved?		✓		Refer to Rectification Item No.1
5.2	Are newly planted vegetations are being generally maintained during the establishment period (12 months)?		<b>√</b>		Refer to Rectification Item No.1



# Follow up action taken by Contractor for previous comments:

- N/A

#### The contractor was reminded to rectify the following:

- 1. Follow up observation item no. 1 on 29/08/2022, Poor health is observed for replacement tree (shown in Figure 1). It is recommended that maintenance party to review if replacement is required.
- 2. Follow up observation item no. 2 on 29/08/2022, Dead branches (shown in Figure 2) with fungal growth are observed. Pruning of dead branches is recommended.
- 3. Some existing trees adjacent to T110 & T109 are still found severely tilted and span over driveway (shown in Figure 3). It is recommended that maintenance party to review if pruning is required.

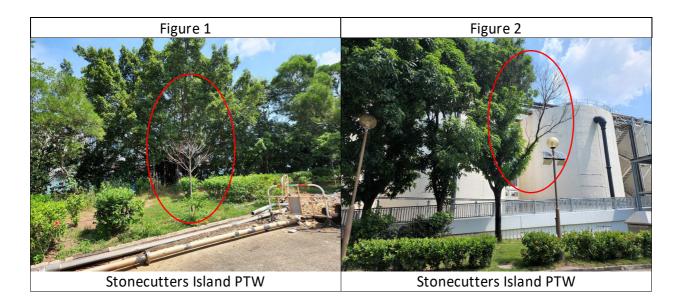
#### **New Observation:**

No Particular Observations

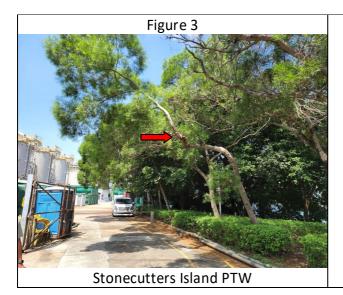
#### **Reminders:**

1. Contractor was reminded to carry out proper maintenance to plantings and recommended to further increase the frequency of watering in the period of extreme hot weather.

#### Photo Record:







		Signature	Date
Inspected & Recorded by	Registered Landscape Architect	Dayma	26-Sep-2022