



翠谷工程有限公司 Green Valley Landfill, Limited

## South East New Territories (SENT) Landfill Extension

**Restoration and Ecological Enhancement Plan (Rev. 3)** 

September 2021

ERM

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#### South East New Territories (SENT) Landfill Extension

### Environmental Certification Sheet EP-308/2008/B and FEP-01/308/2008/B

#### **Reference Document/Plan**

Document/Plan to be Certified/Verified:

Restoration and Ecological Enhancement Plan for South East New Territories (SENT) Landfill Extension

Date of Report:

29 September 2021

#### **Reference EP Condition**

EP Condition:

Condition No. 2.6

Within six months after the commencement of construction of the Project, four hard copies and one electronic copy of a coherent restoration and ecological enhancement plan shall be submitted to the Director for approval showing details of restoration measures for the extension site including provision of 6 hectares of mixed woodland planting composting of about 20% non-native tree species to compensate the loss of shrubland and a mosaic of grassland and shrubland in the remaining areas of the extension. The plan(s), of scale 1 to 1000 or other appropriate scale as agreed by the Director, shall include details on locations, size, number and species of planting, implementation programme, maintenance and management schedules. The submission shall be certified by the ET Leader and verified by the IEC as conforming to the information, requirements and recommendations set out in the approved EIA Report. All measures recommended in the approved restoration and ecological enhancement plan(s) shall be fully and properly implemented in accordance with the details and programme set out in the submission.

#### ET Certification

I hereby certify that the above referenced document/plan complies with the above referenced condition of EP-308/2008/B and FEP-01/308/2008/B.

Frank Wan, Environmental Team Leader, Environmental Resources Management:

Warchitt. T.

29 September 2021

#### **IEC Verification**

I hereby verify that the above referenced document/plan complies with the above referenced condition of EP-308/2008/B and FEP-01/308/2008/B.

W.K. Chiu, Independent Environmental Checker, Meinhardt Infrastructure and Environment Ltd:

Date: \$10/2

Date:

## South East New Territories (SENT) Landfill Extension

# Restoration and Ecological Enhancement Plan (Rev. 3)

#### Environmental Resources Management

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#### 1 INTRODUCTION

#### 1.1 BACKGROUND

The SENT Landfill Extension (SENTX) forms an integral part in the Strategic Plan in maintaining the continuity of landfill capacity in the Hong Kong for the cost-effective and environmentally satisfactory disposal of waste. The Environmental Impact Assessment (EIA) Report and the associated Environmental Monitoring and Audit (EM&A) Manual for the construction, operation, restoration and aftercare of the SENTX (hereafter referred to as "the Project") have been approved under the Environmental Impact Assessment Ordinance (EIAO) in May 2008 (Register No.: AEIAR-117/2008) (hereafter referred to as the approved EIA Report) and an Environmental Permit (EP-308/2008) (EP) was granted by the Director of Environmental Protection (DEP) on 5 August 2008.

Since then, applications for Variation of an Environmental Permit (No. VEP-531/2017) were submitted to EPD and the Variation of Environmental Permits (EP-308/2008/A and EP-308/2008/B) were granted on 6 January 2012 and 20 January 2017, respectively, as the Hong Kong SAR Government has decided to reduce the scale of the design scheme of SENTX assessed in the approved EIA Report and SENTX will only receive construction waste. In May 2018, a Further Environmental Permit (FEP) (FEP-01/308/2008/B) was granted to the SENTX's contractor, Green Valley Landfill, Limited (GVL).

Per requirement of EP Condition 2.6, the Permit Holder shall, within six months after the commencement of construction of the Project, submit a coherent restoration and ecological enhancement plan to the Director for approval. The submissions shall be certified by the Environmental Team (ET) Leader and verified by the Independent Environmental Checker (IEC).

ERM was appointed by GVL to prepare the Restoration and Ecological Enhancement Plan ("REEP") in accordance to Environmental Permit (FEP-187/2018) Condition 2.6, "a coherent restoration and ecological enhancement plan shall be submitted to the Director for approval showing details of restoration measures for the extension site...".

## 1.2 PURPOSE OF THE RESTORATION AND ECOLOGICAL ENHANCEMENT PLAN FOR SENTX

The purpose of this Restoration and Ecological Enhancement Plan for SENTX development is to show the details of restoration measures for the extension site including:

• provision of 6 hectares of mixed woodland planting composting of about 20% non-native tree species <sup>(1)</sup> to compensate the loss of shrubland and a mosaic of grassland and shrubland in the remaining areas of the extension;

- plan(s), of scale 1 to 1000 or other appropriate scale as agreed by the Director, shall include details on locations, size number and species of planting;
- implementation programme, maintenance and management schedules.

All measures recommended in the approved REEP shall be fully and properly implemented based on the details and programme set out in this submission.

Under the requirement of *Condition 2.6* of the FEP, the Restoration and Ecological Enhancement Plan shall be prepared and submitted to the DEP within six months after the commencement of construction of the Project.

(1) The feasibility of 20% non-native species will be confirmed in accordance with the result of the trial nursery referring to EP Condition 2.7. Noting that this ratio was not reachable in the current SENT Landfill.

## **1.3** STRUCTURE OF THE RESTORATION AND ECOLOGICAL ENHANCEMENT PLAN FOR SENTX

The remainder of the *REEP for SENTX* is structured as follows:

- Section 2 presents the existing conditions and environment of the site;
- *Section 3* presents the requirements and approach to develop the Restoration and Ecological Enhancement Plan (REEP);
- *Section 4* presents the details of the Restoration and Ecological Enhancement Plan; and
- *Section 5* presents the implementation program, maintenance and management of the REEP.

ENVIRONMENTAL RESOURCES MANAGEMENT

#### 2 CONDITIONS AND ENVIRONMENT OF THE SITE

#### 2.1 SITE LOCATION

The SENTX is a piggyback landfill, located on the western side of the Clear Water Bay Peninsula without additional encroachment of the CWBCP, occupying the southern part of the existing SENT Landfill and 13 ha of Tseung Kwan O (TKO) Industrial Estate (Area 137). A layout plan of the SENTX is shown in *Figure 2.1*.

#### 2.2 TOPOGRAPHY AND LANDFORM

The geology of the peninsula is variable, comprising rocks of the Middle and Lower Jurassic Periods (pyroclastic rocks and acidic lavas) as well as smaller outcrops of granitic rocks and deposits of colluvium. This forms a rugged mountainous ridge (up to ~ 340mPD) along the Clearwater Bay Peninsula which falls steeply into the sea, occasionally forming steep cliffs. In addition, this ridge sends out lateral spurs towards the coast forming a series of steep-sided coves and bays.

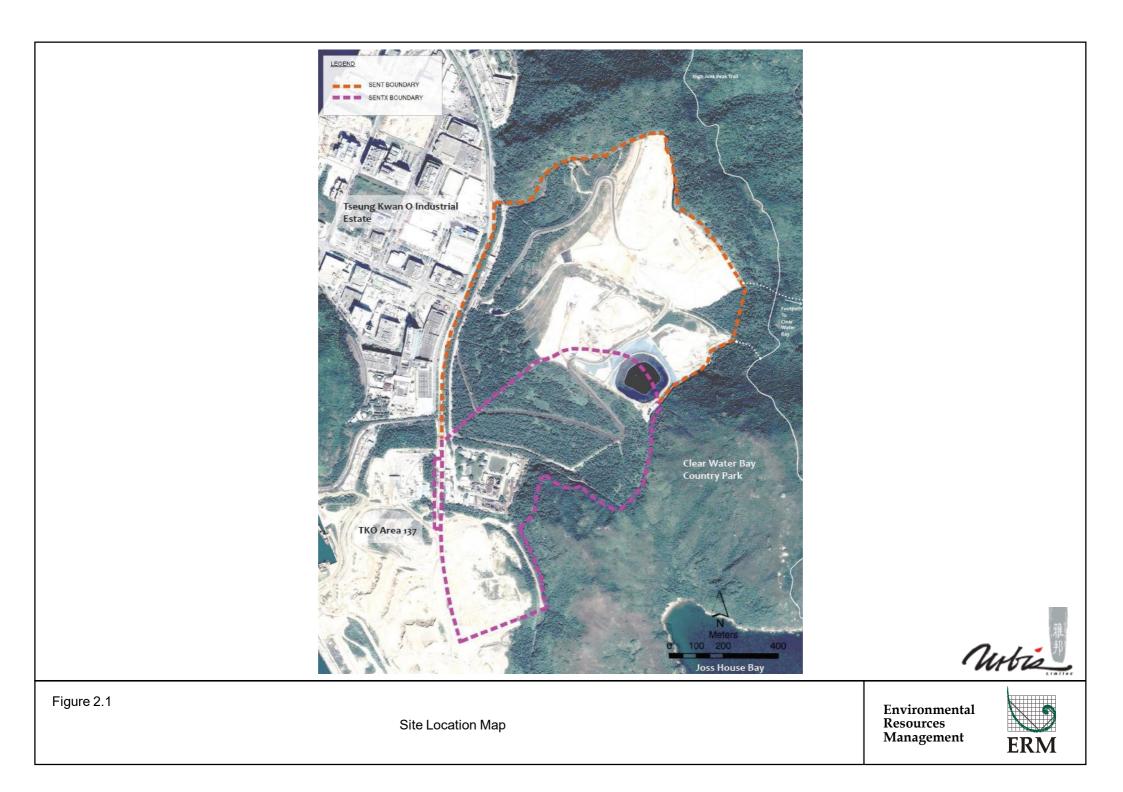
The ridge, composed of alternate peaks and saddles, is angular and rugged in appearance, generally vegetated, but with rocky outcrops, especially around the tops of peaks. A feature of some importance to the SENT and SENTX sites is the saddle of land, formed between the two peaks of Ha Shan Tuk and Tin Ha Shan, which is a viewing point for a number of recreational users of the area. A number of small streams drain off the line of hills forming the peninsula, down shallow gullies formed in the hillsides and thence into Junk Bay.

The SENT/ SENTX Landfill site lies in and around what used to be Shek Miu Wan, a cove within Junk Bay. Junk Island (Fat Tong Chau) lies off Shek Miu Wan (see *Figures 2.1*). The Island is steep sided, rising to 99mPD and plunging sharply into the sea. It is generally rocky with a patchy covering of scrub and trees. The infrastructure contract which preceded the SENT/ SENTX landfills has now joined Junk Island to the peninsula itself, effectively reclaiming the cove of Shek Miu Wan and turning the island into a rocky promontory (see *Figure 2.1*).

The SENT/ SENTX landfill, when completed, will together cover approximately 116 ha, of which about 50 ha will be reclaimed from Shek Miu Wan. It will form an extension to the lower hillsides of the western side of Clearwater Bay Peninsula.

Two footpaths pass close to the landfill sites (see *Figure 2.1*). One, formerly the land access to the two villages around the cove, runs from the car park at Clear Water Bay Second Beach over the saddle of land above the landfill site. From here, there are views down to the coast as well as over Junk Bay.

In addition, the High Junk Peak Hiking Trail, which is a much used hill walking route, runs along the ridgeline down the centre of the peninsula and



the new recreational facility on the site should have regard to the Trail and seek to create links with it in order to establish a comprehensive network of recreational facilities throughout the peninsula.

#### 2.3 CLIMATE AND MICROCLIMATE

The SENT/ SENTX landfill sites lie on an exposed area of Hong Kong's southeast coast, which take the full force of Hong Kong's prevailing south-westerly winds between the months of August and June. This important factor has informed and guided the design of the restored areas. Mean annual rainfall is between 2,000mmm and 2,400mm per year. Monthly mean temperatures are between approx. 14 degrees Celsius (January) and approx. 28 degrees Celsius (July) with mean monthly relative humidity varying between approx. 69% (December) and 83% (June).

Planting on areas of higher ground demonstrates the extent to which exposure to winds can inhibit plant establishment. Vegetation establishes less well on upper slopes that are not south or west facing, except in gullies or ravines. On lower slopes, more tree and scrub vegetation becomes established, since these areas are often less exposed.

The Restoration and Ecological Enhancement Plan seeks both to take cognisance of these conditions, optimise the establishment of vegetation as well as creating conditions that will be conducive to informal recreational activities which benefit from more sheltered locations. Planting and landform should be exploited to create a microclimate that will provide shelter over limited areas for picnic and other low-key informal activities.

#### 2.4 VEGETATION AND ECOLOGY

A baseline vegetation assessment was carried out around Shek Miu Wan as part of the SENTX EIA (Section 9.7). The assessment identified five types of flora/ habitat in their study area at the SENTX site as follows:

#### Plantation

A total 14 exotic species were found located within the boundary of the existing SENT Landfill and all of them are common species in Hong Kong. The plantation is largely exotic woodland, dominated by the tree species *Acacia confusa* with tree height around 3 to 5 meters and planted as part of the existing SENT Landfill restoration. In the meanwhile, the woodland is young in age and the understorey is occupied by weeds species such as *Leucaena leucocephala, Bridelia tomentosa, Lantana camara* and *Miscanthus sinensis* etc.

#### Shrubland

Shrubland habitat can be found on the hillsides located within the Clear Water Bay Country Park (CWBCP) in a continuous patch approximately 75.3 ha. The shrubland has a rocky substrate shown evidence of occasional disturbance by hill fires. Shrubland found in the valleys are taller, usually 2m to 3m height while they are shorter on hill slopes, generally 0.3m to 1.5m height. There are 80 species were recorded which are commonly found in Hong Kong. The Shrubland are dominated by several native species, including *Rhaphiolepis indica, Rhodomrytus tomensora, Cratoxylum cochinchinensis, Eurya nitida, Embelia laeta, Embelia ribes* and *Gardenia jasminoides*.

#### Grassland

Grassland was recorded at the southeast part of the SENTX area mainly located within the CWBCP (around 19.7 ha.). The grassland is found on the rocky hills and ridges, and disturbed by hill fire occasionally. A total of 30 species, including grassy and shrubby plant, were found in the habitat and all of them are common species in Hong Kong. For grassland, it was dominated by *Ischaemum aristatum*, *Rhynchelytum repens* and *Scleria harlandi*. For shrub species, *Wikstroemia chinensis*, *Rhus succedanea* and *Mimosa pudica*.

#### Seasonal Stream

There were two seasonal streams found within the vicinity of SENTX area. One is located at Ha Shan Tuk and the other is located at Hin Ha Au. Both of them area small seasonal streams with limited water flows during the wet season and no water flow during dry season.

#### Disturbed/ Developed Areas

Disturbed area is the dominant habitat within the vicinity of SENTX, including TKO Area 137, TKOIE and the existing SENT Landfill. The total area is around 171.2ha. This habitat is highly disturbed with limited vegetation cover and the plant species are commonly found in Hong Kong (mostly for landscape purpose). There are total 22 plant species dominated by weeds and landscape species, such as *Acacia auriculiformis* and *Leucaena leucocephala*, were found within this areas.

#### 2.5 THE SENT LANDFILL RESTORATION

The SENT Landfill restoration was produced following the SENT Landfill 'Final Restoration Landscape Masterplan Design Report (December 1996) and is shown in *Figure 2.2*. In Chapter 4 of the report, the objective of the restoration stated that:

...it was envisaged that the afteruse of the site would be as an informal recreational facility. Such a facility would complement recreational activity in Clear Water Bay Country Park. Only after the complete landfilling and restoration of the site would it be opened to the public.

*It is likely that the restored site will act as a dual facility. With a car park perhaps located on the site of the current infrastructure area, visitors could either use the site* 



SENT Landscape Restoration Master Plan

Figure 2.2

#### LEGEND



Possible Link to High Junk Peak Trail

Z

Advance Planting (Existing)
Proposed Secondary Woodland
Proposed Amenity Woodland
Proposed Firebreak Woodland
Proposed Scrubland
Site Boundary
Vehicle Access Track
Maintenance Vehicle Track
Proposed Contours (mPD)
Landscape Valley Channel
Footpath
Pavilion



as a transitional area permitting access to Clear Water Bay Country Park, or as a recreational facility in its own right. It is perceived that the facility should cater for the following activities:

- *Hiking and strolling;*
- Mountain biking;
- Picnics;
- *Kite and model aeroplane flying;*
- Sitting out and taking in views of the seascape and landscape.

The masterplan seeks to provide a range of visitor experiences, with woodland, scrub and open grassland areas. It aims to create a variety of spatial scales and degrees of enclosure and intimacy. There are sitting areas where individuals or groups can gain some privacy as well as open meadows for activities where more space is required, such as kite flying. In particular, the value of the new peaks and high areas is maximised by locating pavilions on their summits, which can then be used as sitting areas or viewpoints.

The landform as designed consists of a curved spur of land which runs down to the coast at gradients of 1:3, typical of gradients found elsewhere in the area. This spur leaves the uplands of the peninsula and turns west and south falling in a series of three high points. On the southern/ eastern side of the site, a ravine is created where the landfill site meets the former coast. At all points, the landform relates closely to the topography of the former coast, so that the landfill site appears as a natural extension of the landscape around it. Sufficient variety is created by peaks, spurs, ridges and valleys to provide a diverse and interesting experience for visitors (see *Figure 2.2*).

The restored site could offer potential links to the wider peninsula and to the High Peak Junk Trail as well as possessing a self-contained circulation pattern that allows the easiest possible access to the maximum part of the site.

The primary circulation system for the proposed recreational facility is a proposed network of maintenance tracks. Supplementing these tracks is a network of pedestrian paths designed to give comprehensive site access as well as access to viewpoints on the newly created peaks (see *Figure 2.2*).

The planting for the restored SENT site was designed to simulate natural patterns of hillside vegetation create the following types of vegetation:

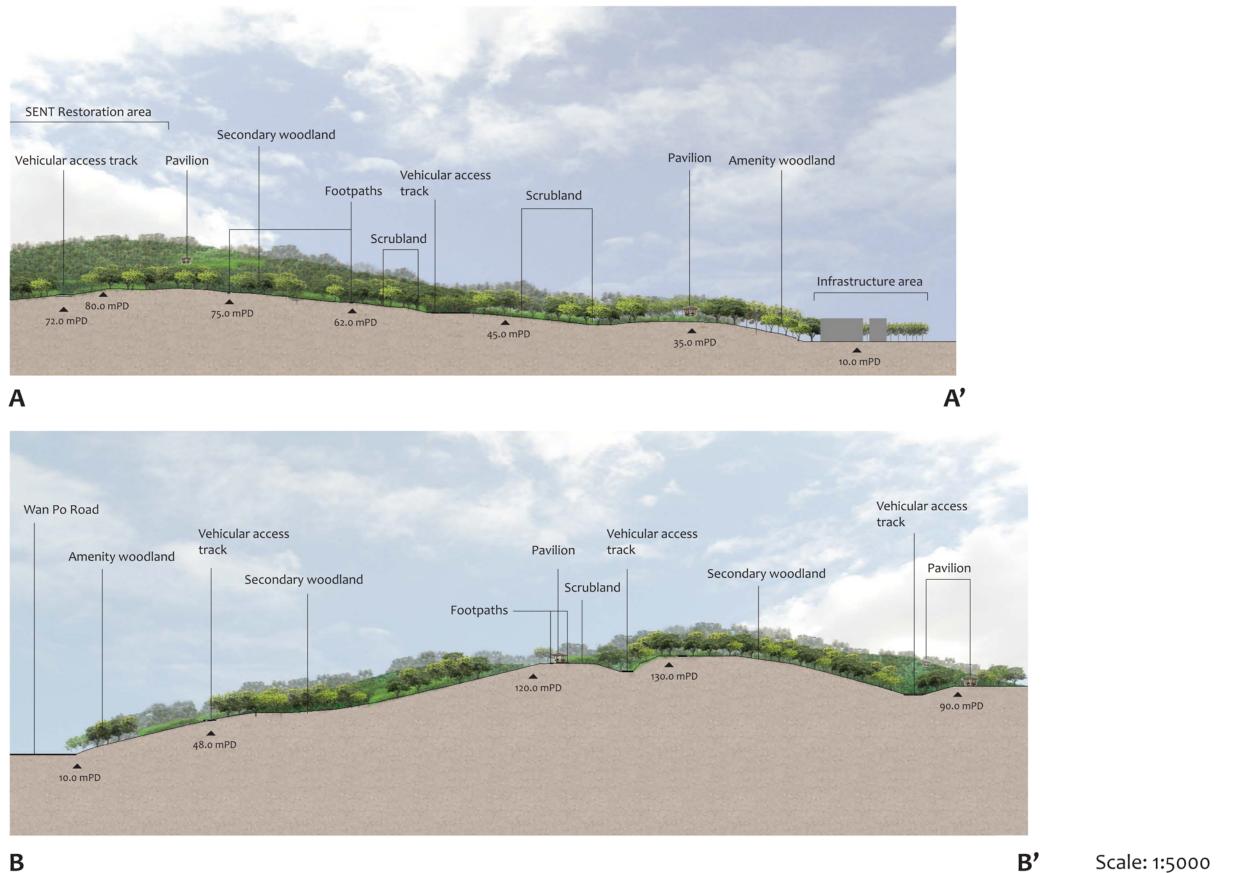
- Woodland
- Shrubland
- Grassland
- Amenity Woodland
- Tree Stands

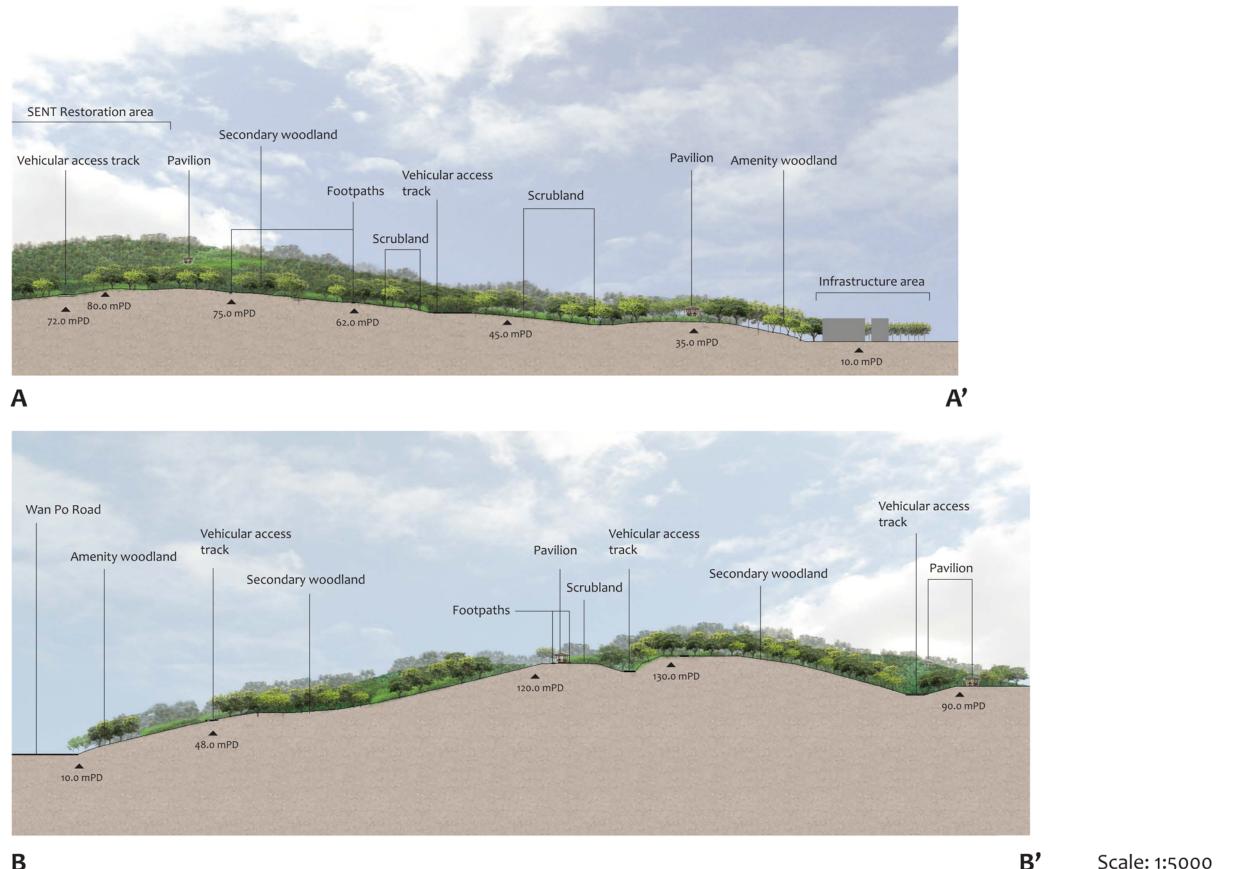
• Firebreak Woodland

The design of planting will follow the vegetation structure typical of natural hillside woodland, shrub and grassland in Hong Kong, so that an entirely natural effect will be created that is of maximum benefit to wildlife (see *Figure 2.3*).

During the preparation of this Restoration and Ecological Enhancement Plan for SENTX development, the above SENT Landfill Restoration works has been taken into account and made reference to, especially the existing established plant species of successful and high survival rate. Besides, trail nursery is also undertaking (detail refer to **Section 4.2**) in accordance with EP condition 2.7 "trial nursery for native plant species …to fine tune the planting matrix and management intensity of the recommended indigenous tree species". The trail nursery is still in progress, only preliminary results were reviewed and discussed in **Section 4.2**, while the full monitoring results will be provided in later stage. Further details and result of the trail nursery works under both the SENT and SENTX projects will be adopted to refine the SENTX REEP.







Sections through Restored SENTX Landfill

Figure 2.3



#### 3.1 REEP REQUIREMENTS

3

Specific design objectives and criteria for the SENTX landfill restoration and ecological enhancement plan (REEP) are set out in the following documents:

- EP (FEP-187/2018) Condition 2.6; and
- The ecological mitigation requirements of the SENTX Project EIA Report (Chapter 9).

#### 3.2 Environmental Permit (FEP-187/2018) Conditions 2.6

According to EP Condition 2.6, it stated that "Within six months after the commencement of construction of the Project, four hard copies and one electronic copy of a coherent restoration and ecological enhancement plan shall be submitted to the Director for approval showing details of restoration measures for the extension site including provision of 6 hectares of mixed woodland planting composting of about 20% non-native tree species to compensate the loss of shrubland (1) and a mosaic of grassland and shrubland in the remaining areas of the extension. The plan(s), of scale 1 to 1000 or other appropriate scale as agreed by the Director, shall include details on locations, size, number and species of planting, implementation programme, maintenance and management schedules. The submission shall be certified by the ET Leader and verified by the IEC as conforming to the information, requirements and recommendations set out in the approved EIA Report. All measures recommended in the approved restoration and ecological enhancement plan(s) shall be fully and properly implemented in accordance with the details and programme set out in the submission."

(1) The feasibility of 20% of non-native species will be confirmed in accordance with the result of the trial nursery referring to EP Condition 2.7. Noting that this ratio was not reachable in the current SENT Landfill.

#### 3.3 ECOLOGICAL MITIGATION REQUIREMENTS OF THE SENTX EIA

#### 3.3.1 Ecological Mitigation Requirements

Agreement No. CE 10.2005(EP) South East New Territories (SENT) Landfill Extension - Feasibility Study:

Environmental Impact Assessment Report (hereafter referred to as the approved EIA') defines a number of ecological (flora) mitigation measures that the restoration of the landfill must fulfil. In particular Section 9.10.3 of the approved EIA Report addresses the issue of habitat mitigation. The following compensation planting is recommended as mitigation for the habitats affected due to the proposed Extension.

• Provision of 6 ha of mixed woodland planting to compensate for the loss of shrubland. To enhance the ecological value of the encroached area within

*CWBCP, mixed woodland will be planted on the affected areas (approximately 6 ha, originally shrubland)* <sup>(2)</sup>; *and* 

- *Provision of a mosaic of grassland and shrubland in the remaining areas of the Extension Site.*
- (2) There will be no additional encroachment of the CWBCP under the current scheme of SENTX. As required in EP Condition 2.6 (FEP-01/308/2008/B), restoration measures for the extension site include provision of 6 hectares of mixed woodland planting composting of about 20% non-native tree species to compensate the loss of shrubland and a mosaic of grassland and shrubland in the remaining areas of the extension.

The mixture of grassland, shrubland and woodland habitats is recommended to diversify the habitats to support various wildlife, in particular butterflies, birds and herpetofauna and blend into the existing undisturbed ecological environment...This recommendation also complies with the mitigation measures proposed in the existing SENT Landfill EIA, which suggested compensatory planting of native woodland.

Indigenous plant species with a shallow root system, softwood in nature and adaptive to sea shore habitat are recommended to be used in the restoration plan, such as Gordonia axillaris, Phyllanthus emblica, Celtis sinensis and Macaranga tanarius, which have been well established in coastal areas with exposure to strong wind and salt spray, and with a sandy soil base.

Indigenous tree species Celtis sinensis and Ficus microcarpa have also been recorded in the SENT Landfill site (from years 2003 to 2006) and during the baseline surveys of this Project, although they occurred in low abundance in SENT Landfill and some individuals were distorted in tree form due to competition by exotic tree species on the crown layer.

With special care and management in place and the optimal planting matrix with other plant species, native tree species could be used for restoration in landfill site. Taking into consideration the relatively poor substrate and the difficulties of establishment of some native trees in Hong Kong, it is recommended to include approximately 20% of non-native tree species in the compensatory woodland. The non-native tree species can serve as a nurse species to facilitate the establishment of the native tree species, especially the shading, and it can be replaced by established native tree species (in particularly butterfly species of conservation interest recorded within the CWBCP)....

It is also recommended that a trial nursery for native plant species be set up in advance during the construction phase in order to fine tune the planting matrix and management intensity of the recommended indigenous tree species. It should be noted that native shrubs and tree species have been used for restoration of the existing SENT Landfill, native plant species that could not successfully be established on the existing SENT Landfill should be reviewed before the preparation of the compensatory planting list. Special care and intensive management of native plants should be implemented in order to ensure proper establishment of the native plants. Compensatory planting and restoration of the Extension can be implemented progressively according to the filling plan of the Extension. Planted and restored areas will serve their ecological function once completed. Detail of location and commencement schedule of the trial nursery is shown in *Annex A*.

#### 3.4 PROPOSED APPROACH FOR THE REEP

According to the above requirements, the following describes the broad approach to the REEP for the SENTX restoration.

#### 3.4.1 Planting Design

The planting for the restored SENTX site is also illustrated in *Figure 3.1*. Planting design has been guided by the approved EIA Report Section 9 mitigation requirements (see *Section 3.3.1*).

In addition, the approved EIA Report Section 10 Mitigation Measure AM10 requires that:

The restored Extension will be substantially vegetated so as to mimic the patterns of natural vegetation on surrounding hills. At least 18.8ha of the area of the Extension Site will be planted with woodland mix planting at no less than 1.2m spacings. 80% of all plants planted will be native species. The remainder of the site will be planted as a grassland / shrub mosaic.

In summary, therefore, the planting requirements are for a minimum of 18.8ha of woodland and a mosaic of grassland and shrubland, which comprises 80% of native species.

In addition, the planting layout has been designed with considering the following factors:

- *Response to the established SENT restoration planting design;*
- existing planting and landscape design at SENT landfill; and
- Prevention of Fire.

#### 3.4.2 Response to the Established SENT Restoration Planting Design

The ecological restoration design at SENTX aims to establish the beginnings of a vegetation structure which can develop and offer a wide range of ecological habitats for both flora and fauna, from grassland and scrubland through to woodland. However, this is neither a simple nor a short-term matter, as the development of habitats can take many years.

Ecological diversity is best encouraged by the planting of native plant species and communities. The numbers of non-native species used will be restricted to about 20% as required <sup>(1)</sup>.

In order to establish a woodland that offers the widest possible range of opportunities for the natural development of habitats and ecological niches for

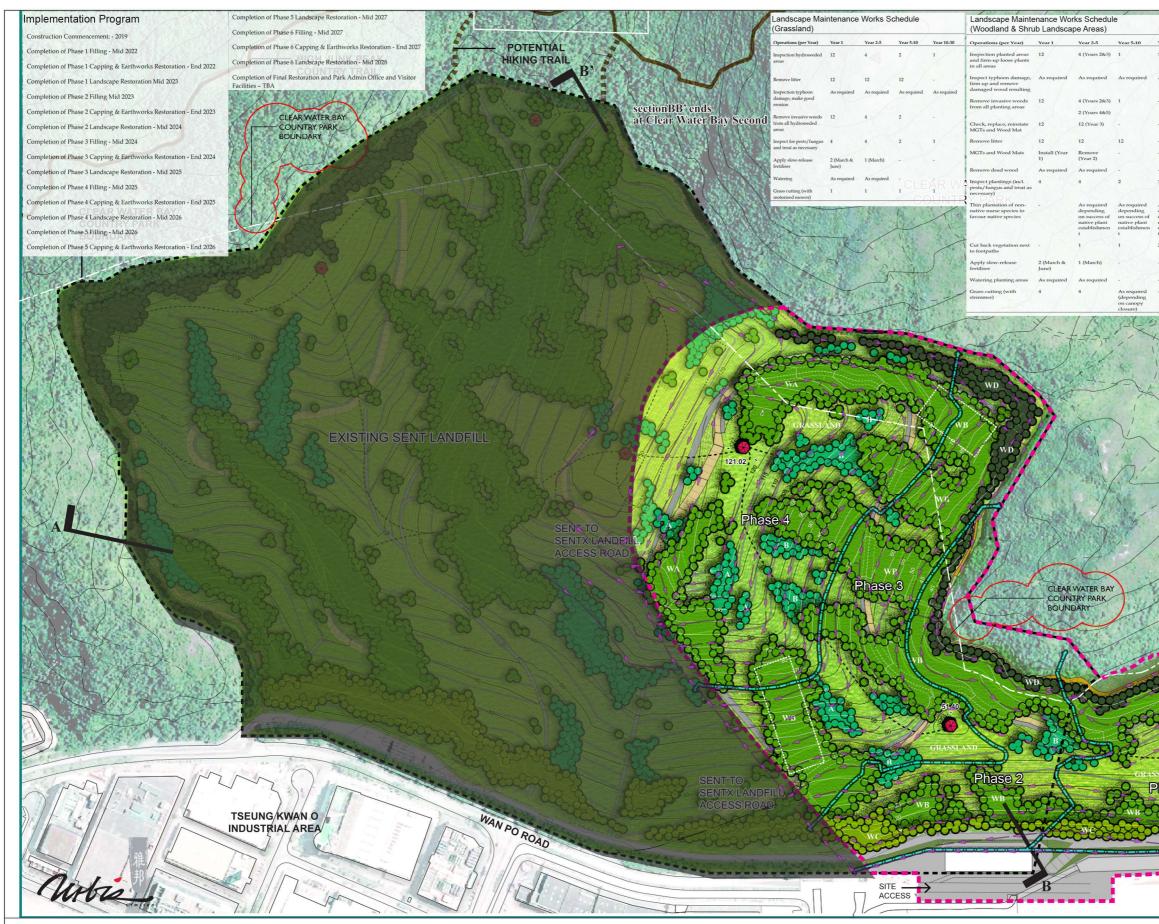


Figure 3.1

SENTX Restoration and Ecological Enhancement Plan

1-/	LEGI	END
Year 10-30		• SENT BOUNDARY
As required		SENTX BOUNDARY
-	3.1	EXISTING VEGETATION
		PROPOSED GRASSLAND
	Z WA	PROPOSED SECONDARY WOODLAND - Mix A : Exposed Slope (WA)
	WBQ	- Mix B : Sheltered Slope (WB)
As required depending on success of native plant	Twee	PROPOSED AMENITY WOODLAND (WC)
establishmen	WD	PROPOSED FIREBREAK WOODLAND (WD)
	STA Sta	PROPOSED SCRUBLAND - Mix A : Exposed Area (A) - Mix B : Sheltered Area (B)
	P	VEHICLE ACCESS TRACK
-	uu	MAINTENANCE VEHICLE TRACK
10	C STREET	LANDSCAPE VALLEY CHANNEL
ing		ON-SLOPE CHANNEL
1-1		• FOOTPATH
		PAVILION
11	-58-	PROPOSED CONTOURS^
-	PHASE 1	RESTORATION PHASING LAYOUT
		> DRAINAGE CHANNEL
	_A'_	B' SECTION LOCATION (See Fig.3.5)
	[	APPROX. LOCATION OF TPRP COMPENSATORY TREE PLANTING
		proposed Contours from "Final Restoration Grades Plan", awing No. 12 (Rev.2) provided by GVL.
A CONTRACTOR OF		SENTX INFRASTRUCTURE ARA (WORK BY OTHERS)           WORK BY OTHERS)           SCALE 1: 5,000           0         50         100         150         200         250m
		Environmental Resources
		Management ERM



Figure 3.1.1

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# SENTX Restoration and Ecological Enhancement Plan\_1

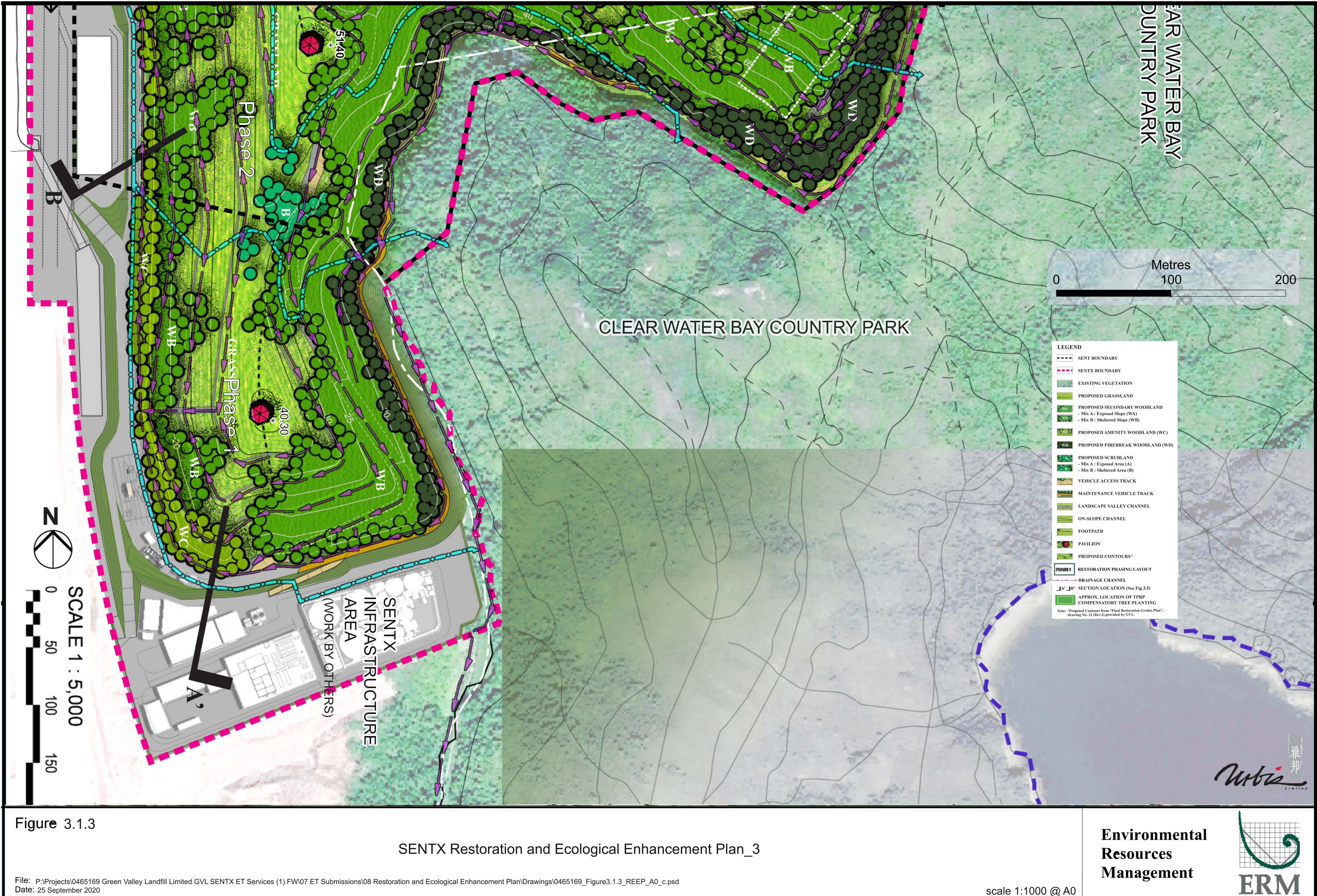
## LEGEND ---- SENT BOUNDARY SENTX BOUNDARY EXISTING VEGETATION PROPOSED GRASSLAND PROPOSED SECONDARY WOODLAND- Mix A : Exposed Slope (WA)- Mix B : Sheltered Slope (WB) PROPOSED AMENITY WOODLAND (WC) PROPOSED FIREBREAK WOODLAND (WD) PROPOSED SCRUBLAND- Mix A : Exposed Area (A)- Mix B : Sheltered Area (B) VEHICLE ACCESS TRACK MAINTENANCE VEHICLE TRACK LANDSCAPE VALLEY CHANNEL ON-SLOPE CHANNEL **FOOTPATH** PAVILION PROPOSED CONTOURS^ PHASE 1 RESTORATION PHASING LAYOUT \_A'\_B' SECTION LOCATION (See Fig.3.5) APPROX. LOCATION OF TPRP COMPENSATORY TREE PLANTING Note: ^Proposed Contours from "Final Restoration Grades Plan", drawing No. 12 (Rev.2) provided by GVL.

Environmental Resources Management



HIGH





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Figure 3.1.4

SENTX Restoration and Ecological Enhancement Plan Area Calculation for Compensatory Woodland Planting within and near CWBCP

PLANTING TYPES	AREA
PROPOSED SECONDARY WOODLAND ( WOODLAND MIX A - EXPOSED SLOPES)	40082.69m <sup>2</sup>
PROPOSED SECONDARY WOODLAND (WOODLAND MIX B - SHELTERED SLOPES)	143779.43m <sup>2</sup>
PROPOSED AMENITY WOODLAND ( WOODLAND MIX C )	15987.42m <sup>2</sup>
PROPOSED FIREBREAK WOODLAND ( WOODLAND MIX D )	22637.27m <sup>2</sup>
PROPOSED SCRUBLAND ( SCRUBLAND MIX A - EXPOSED AREA)	9211.42m <sup>2</sup>
PROPOSED SCRUBLAND	16390.05m <sup>2</sup>



wildlife, it is most effective to follow or mimic the natural process of woodland vegetation development.

Woodland development begins with the colonisation of a grassland or rocky site by dwarf shrub species. These in tum are followed by pioneer species, aggressive and opportunistic plants, surviving in locations which other plants find too exposed, too arid or where soils are too impoverished. These species develop quickly and are short-lived. They act as nurses, protecting the native tree and shrub species which colonise the site from wind and providing them with nutrients in the form of leaf litter and organic matter, which enriches the soil. This process is known as ecological succession.

The native trees and shrubs which colonise the site, eventually develop into what is termed a climax woodland community, the endpoint of a stable woodland ecosystem that will survive and persist for thousands of years unless there is external interference, such as fire.

A climax woodland community is composed of several layers of vegetation, each adapted to the various environmental conditions within the woodland (see *Figure 3.2*). The climax layer of vegetation is composed of the tallest woodland species, which tend to be the longest lived. These trees, 15 metres or more in height, capture most of the light falling on the woodland and maintain a competitive advantage over other species.

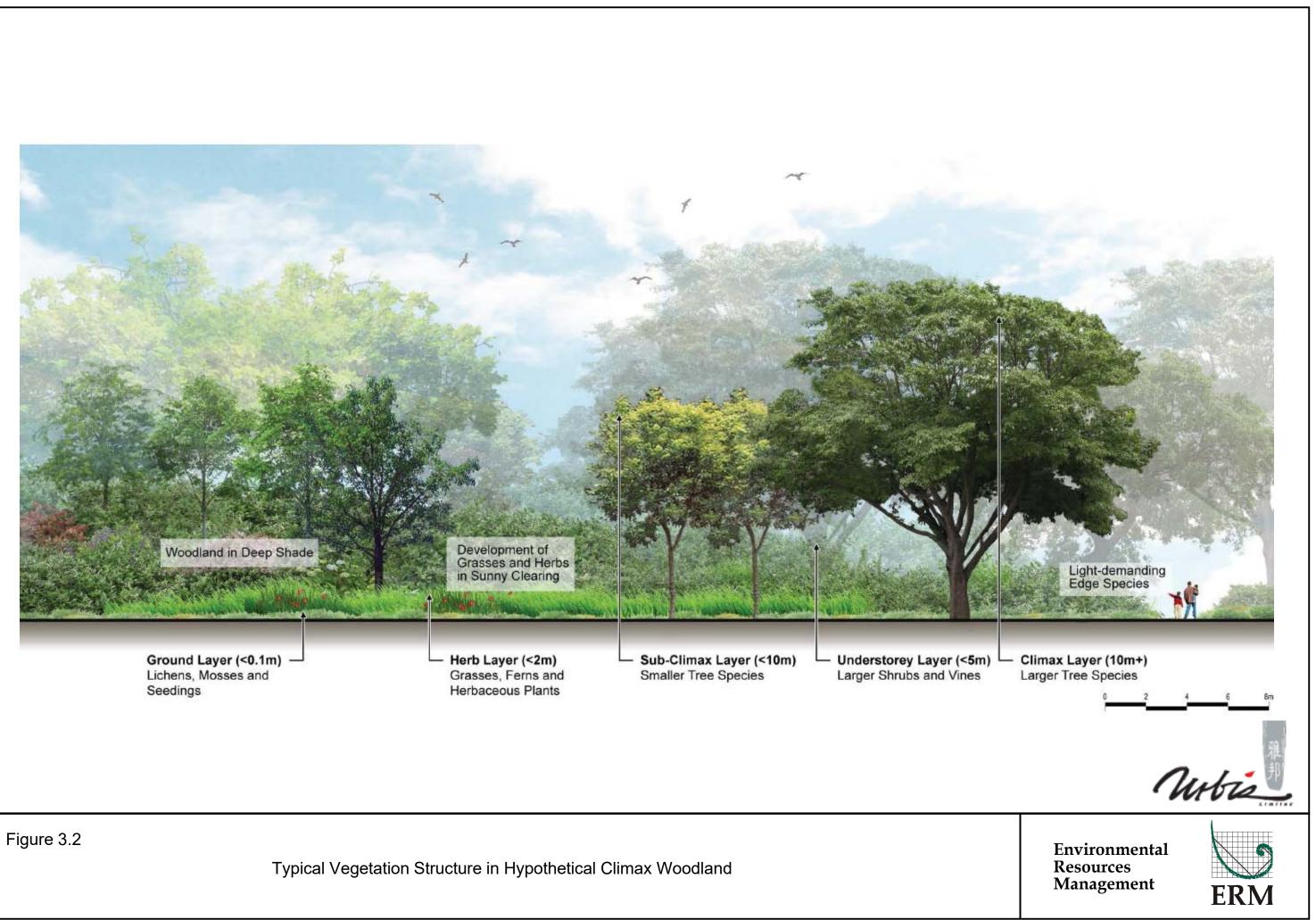
The sub-climax layer is composed of smaller trees 10 metres or more in height. These develop opportunistically in gaps left in the canopy layer, where sunlight penetrates and are also found at the edges of the woodland.

Below the sub-climax species is the understorey layer, composed of large shrubs up to five metres in height. Generally, these are suppressed by the low light levels near the woodland floor, but develop vigorously in pockets of light where older trees have died, and in sunny clearings. Many large shrubs demand high levels of light and develop along the edge of the woodland.

The herb layer is composed of large grasses and smaller shrubs up to two metres tall, which will generally tolerate lower light levels. Finally, the ground layer, is composed of smaller plants still, including mosses, low grasses and tree seedlings. These plants will generally have to tolerate extremely low levels of light.

The planting mix approach noted above is appropriate for the creation of a natural woodland structure. Using planting matrices (see *Figures 4.1 to 4.6*), different plant species can be laid out in the positions relative to each other so that they would normally occupy in a natural woodland.

(1) The feasibility of 20% of non-native species will be confirmed in accordance with the result of the trial nursery referring to EP Condition 2.7. Noting that this ratio was not reachable in the current SENT Landfill.



#### 3.4.3 Existing Planting and Landscape Design at SENT Landfill

As noted in *Section 2.5*, the SENT landscape restoration masterplan provide for the following vegetation types

- Woodland
- Shrubland
- Grassland
- Amenity Woodland
- Tree Stands
- Firebreak Woodland

As these still conform to the EIA requirements and compatibility of the SENT Landfill it is proposed to retain these broad vegetation types at SENTX.

#### 3.4.4 Prevention of Fire

The prevention of fire, or at least the containment of any fires that may start, is one of the design criteria incorporated into the REEP. The control or containment of fire can be achieved in a number of ways:

- to create man-made barriers to fire e.g. footpaths or roads or drainage channels;
- to clear or limit the growth of vegetation by cutting; and
- to plant belts of vegetation that are resistant to fire.

Physical barriers may simply be areas of ground wide enough to prevent fire crossing. A width of even one metre can be sufficient to serve this purpose. In this regard, footpaths or roads can be useful, as can streams, drainage channels (*Annex D*) or rock faces.

Clearance of vegetation can contribute to fire control. Areas can be kept permanently free of vegetation in order to stop the spread of fire. This method does however give rise to recurrent maintenance costs. The cutting of grassland on a biannual basis is essential in limiting the amount of biomass vulnerable to fire.

The planting of belts of trees resistant to fire is a further method of controlling fire. As the species traditionally used have often been non-natives, this has in the past produced areas of rather unnatural looking vegetation amongst the woodland cover. Recently however, native species such as *Ficus microcarpa*, have been used as fire-breaks, reflecting concerns at the effect on ecology and wildlife of the introduction of non-native species.

In the design for the REEP, the principal method of fire control is the exploitation of the numerous proposed on-slope U-channels draining the

hillsides. Planting will been set-back along these channels to create 5 metrewide belts free of vegetation which serve to subdivide blocks of woodland and which permit maintenance of the U-channels.

The main drainage gullies will fall from the main ridge of land to the east and west and will run through the principal woodland spine located in the main valley. This woodland has been designed so that the gully will serve to compartmentalise and separate areas of this woodland.

Generally, maintenance access tracks and footpaths will compartmentalise areas of woodland and help control spread of fire. On the boundaries of the site where it adjoins areas of advance planting, belts of fire-resistant woodland will be planted to prevent the spread of fire in and out of the site.

#### DEVELOPMENT OF THE RESTORATION AND ECOLOGICAL ENHANCEMENT

#### 4.1 APPROACH TO PLANTING DESIGN

4

As required by the approved EIA Report and EP condition, three different types of vegetation are envisaged on the SENTX site in order to simulate the natural patterns of vegetation in the vicinity. These are:

- Woodland;
- Shrubland; and
- Grassland.

In addition, the following vegetation types will also be created to correspond to types currently in use at the SENT landfill restoration:

- Tree Stands;
- Amenity Woodland; and
- Firebreak Woodland.

The design of planting will follow the vegetation structure and relative distribution typical of natural woodland and scrub, so that an entirely natural effect is created that is of maximum benefit to wildlife.

As shown in *Figures 3.2*, **woodland** planting is concentrated on the lower slopes of the landfill and on intermediate slopes that might be partially sheltered by existing Clear Water Bay Country Park landforms, including the valley/ gulley on the eastern side of the SENTX Site. This creates a band of woodland on the lower western slopes of the SENTX landfill connecting with that at SENT, together with a second band of woodland following the valley created on the eastern side of the SENTX site where it adjoins the Clear Water Bay Country Park. Planting on the lower slopes will assist in screening the road and industrial estate from the lower slopes as well as providing sheltered spaces for picnics and sitting out.

In compliance with the approved EIA, there will be a total of approximately 30.5 ha of woodland at SENTX, consisting of 80% native tree species. In the area of SENTX lying within the Clear Water Bay Country Park, there will be approximately 6.8 ha of woodland, including compensatory planting of 2,190 nos. of trees (approximately 0.5 ha) and at least 6 ha of mixed woodland to compensate for the loss of shrubland (refer to *Figure 3.1.4* for the location and area). In areas of SENTX outside this area, there will be approximately 23.7 ha of woodland, including compensatory planting of 6,784 nos. of trees (approximately 1.53 ha).

Elsewhere, at areas of higher elevation, areas of **shrubland** will be planted in fingers running up hillsides, as they would naturally occur. Shrubland is generally a pioneer habitat consisting of small trees and shrubs in a mosaic of grassland, taking advantage of sheltered locations or less exposed topography. In compliance with the approved EIA, there will be 2.9 ha of scrubland, consisting of 80% native species.

**Grassland** will be established at areas of highest exposure/ elevation where it would naturally occur in the environment. Grassland will be created by hydroseeding using a mixture of grass species suited to the site and its conditions which will therefore establish quickly. Further grass species are likely to colonise the site at a later date. Grass will be allowed to develop naturally and will be cut each year to ensure that it poses no unnecessary fire risk.

**Tree Stands** - Occasional tree stands will be planted across the site. These will be groups of trees with no significant understorey, which are to be employed primarily for scenic effect and which will help to create a parkland feel to areas of the site. They will be primarily native trees planted at light standard size.

**Amenity Woodland** - Though the emphasis of the project is on the use of native species and the creation of a natural structure of woodland and shrub habitats, a certain number of semi-ornamental species have been added to the ornamental woodland mix adjacent to the access road. These add interest and variety to areas frequently seen by the public whilst still performing an adequate screening function along the road edge. The planting structure will still be loose and informal and species will be selected to prefer native or adapted non-native species and no invasive species will be selected.

**Belts of Firebreak Woodland** will be planted to the southeast of the SENTX site, dividing the restored woodlands from the indigenous woodlands of Clear Water Bay Country Park.

Having outlined the principal types and patterns of vegetation for the SENTX site, the following sections of the Report detail the technical aspects of the ecological restoration works.

The technical proposals in this section have also been informed by the experience gained at the SENT landfill restoration, which has been recorded during monitoring of planting.

#### 4.2 SELECTION OF PLANTING SPECIES

The approach to species selection and vegetation structure on the restored SENT landscape proceeds from the objective of establishing as close an approximation as possible to a native woodland and scrub habitat. This will create planting that will appear natural but which also promotes wildlife and nature conservation. The concept of the planting mix recognises that, just as is the case in the wild, different communities of plants will naturally colonise different areas, depending on the soil, microclimatic and hydrological conditions. Planting mixes were therefore developed for different areas around the site, depending on the type of plant community appropriate to that location, degree of exposure, and on the function which planting is to serve. The following mixes were developed:

Woodland Mix A	(a pioneer species orientated mix for exposed slopes)
Woodland Mix B	(a native species orientated mix for sheltered slopes)
Woodland Mix C	(a semi-ornamental mix of species for areas most frequented by the public)
Firebreak woodland	(a mix of tree species more resistant to fire)
Shrub Mix A	(for edges of woodland and exposed areas)
Shrub Mix B	(for edges of woodland and sheltered areas)
Tree Stand	

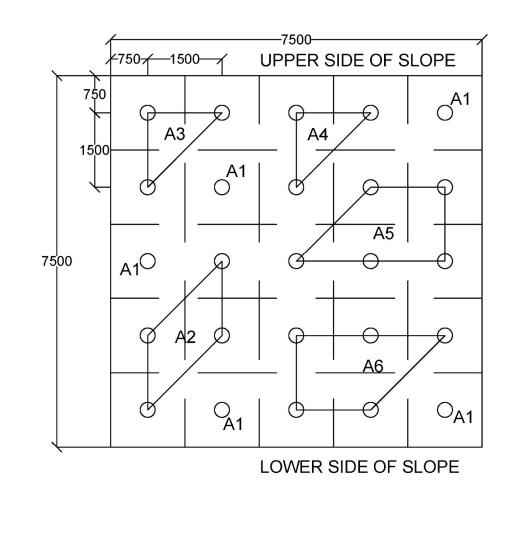
Mixes are laid out according to a predetermined matrix (*Figures 4.1 to 4.6*) which seeks to recreate the kind of woodland vegetation structure found naturally.

It is well established that woodlands composed of species native to a given location are of most value to wildlife and to the ecology of a given area. For this reason, the palette of plants used at SENTX will be drawn predominantly (80% of the total) from the range of species native to Hong Kong.

However, it was recognised that a wholly native woodland might naturally take many decades to develop, particularly on such an exposed site as that at SENTX. In order to ensure a successful and reasonably rapid establishment of woodland, 20% non-native species have been incorporated into the planting. These tend to be faster growing pioneer species which will provide a degree of shelter for the slower-growing natives. However, the use of competitive and dominant species such as *Casuarina equisetifolia* and *Acacia confusa* will be limited.

Planting mixes are also informed by the recommended species in the mitigation section of Chapter 9 of the approved EIA Report.

The trial nursery details and results are also considered when selecting the planting species (trial nursery inspection and monitoring reports refer to *Annex E*). However, the trial nursery is still in progress (commenced on June 2020), the data collection can only refer up to the 1<sup>st</sup> year stage of the trial, i.e. exotic tree species and shrubs planting stage. The native species will be planted in the 2<sup>nd</sup> year of the setup of trial nursery, i.e. June 2021.

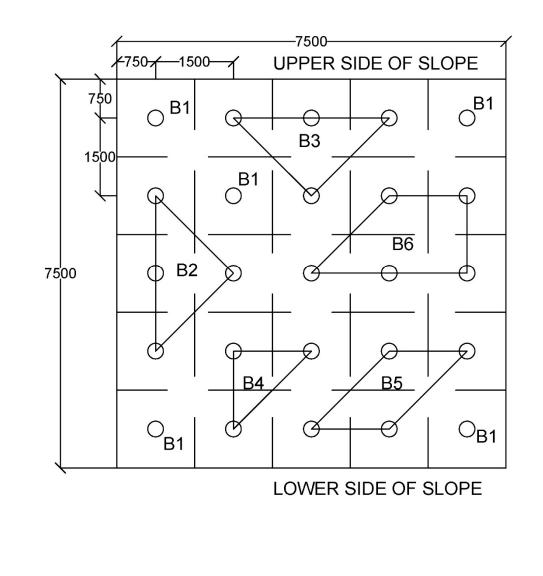


WOUDLAI	ND TYPE: A (EXPOSED)					
Code	Species		Percentage	Quantities		
Pioneer	Pioneer spp.					
A1	Acacia confusa		20%	5		
Climax spp.						
A2	Keteleeria fortunei		16%	4		
Α3	Sapium sebiferum		12%	3		
Α4	Rhaphiolepis indica		12%	3		
Α5	Phyllanthus emblica		20%	5		
A 6	Celtis sinensis		20%	5		
	•	TOTAL:		25		



Planting Matrix- Woodland Type A (Exposed)



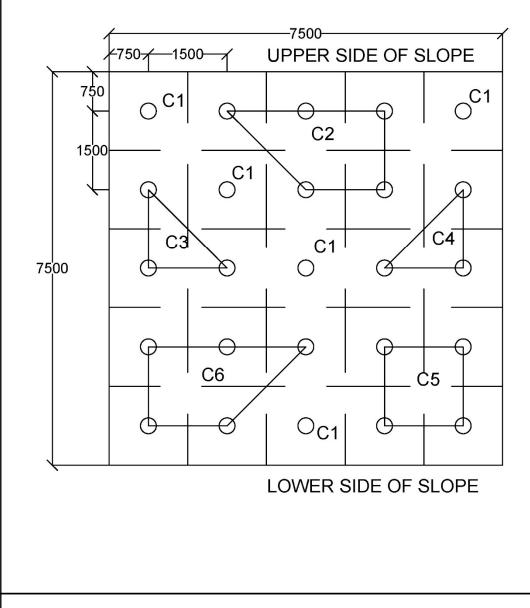


	ND TYPE: B (SHELTERED)		1	
Code	Species		Percentage	Quantities
Pioneer	spp.			
B1	Acacia auriculiformis		20%	5
Climax s	spp.		•	•
B2	Machilus breviflora		16%	4
B3	Ficus superba		16%	4
Β4	Litsea glutinosa		12%	3
B5	Ficus microcarpa		16%	4
B6	Syzygium levinei		20%	5
	÷	TOTAL:		25



Planting Matrix- Woodland Type B (Sheltered)



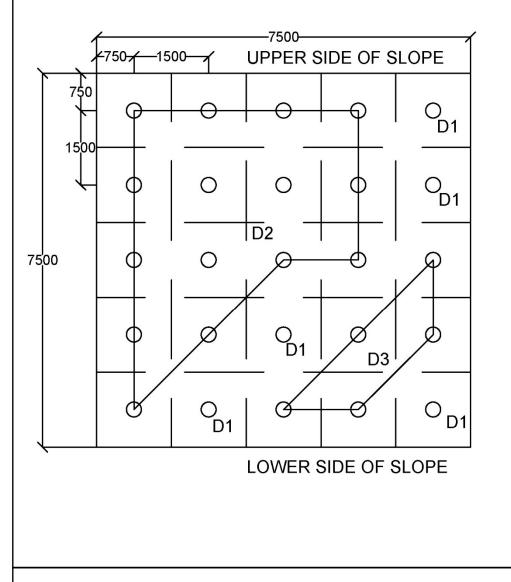


Code	Species	Percentage	Quantities
Pioneer		i ei centage	dealines
C1	Acacia confusa	20%	5
Climax s	рр.		
C2	Pongamia pinnata	20%	5
С3	Rhodomyrtus tomentosa	12%	3
С4	llex asprella	12%	3
C5	Phyllanthus emblica	16%	4
C6	Rhodoleia championii	20%	5
		TOTAL:	25



Planting Matrix- Woodland Type C (Amenity)



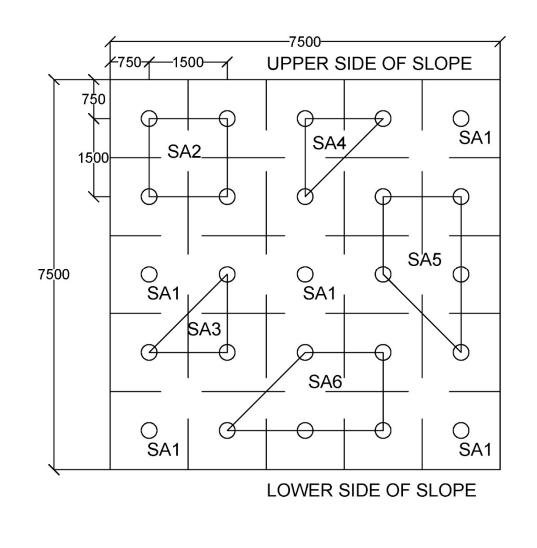


WOODLAND TYPE: D (FIREBREAK)						
Code	Species	Percentage	Quantities			
Pioneer s	Pioneer spp.					
D1	Acacia confusa	20%	5			
Climax spp.						
D2	Ficus microcarpa	60%	15			
D3	Schima superba	20%	5			
	Total:		25			



Planting Matrix- Woodland Type D (Firebreak)



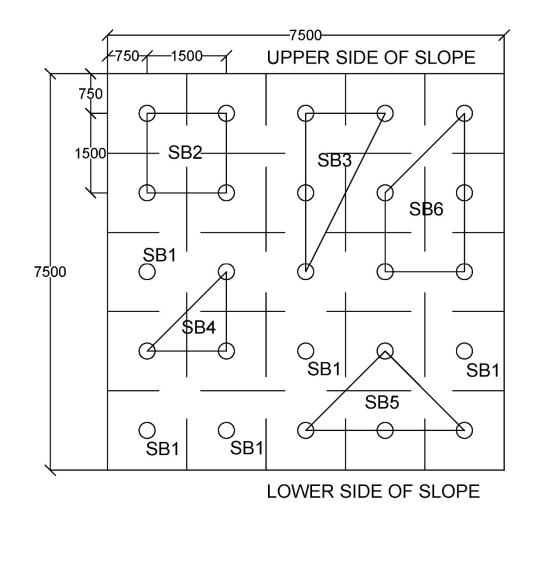


SCRUBLA	ND TYPE: A			
Code	Species		Percentage	Quantities
Pioneer	spp.			
SA1	Acacia mangium		20%	5
Climax s	рр.	•		
SA2	Syzygium buxifolium		16%	4
SA3	Rhododendron simsii		12%	3
SA4	llex asprella		12%	3
SA5	Phyllanthus emblica		20%	5
SA6	Lespedeza formosa		20%	5
	·	TOTAL:		25



Planting Matrix- Shrubland Type A





WOODLAND	) TYPE: B (FOOD PLANTS OF BUTTERFL	Y INCLUDED)	
Code	Species	Percentage	Quantities
Pioneer sp	p.		
SB1	Acacia auriculiformis	20%	5
Climax sp	J.		
SB2	Rhaphiolepis indica	16%	4
SB3	Rhododendron simsii	16%	4
SB4	llex asprella	12%	3
SB5	Urena lobata	16%	4
SB6	Vitex negundo var. cannabafolia	20%	5
TOTAL:		25	



Planting Matrix- Shrubland Type B (Food Plants of Butterfly included)



From the SENTX Trial Planting Monitoring Data Collection Report (*Annex E*), the best exotic tree species, in terms of survived rate, growth rate and the health condition, is *Acacia auriculiformis*, which has been adopted as a pioneer tree in woodland mix. The second best species are *Acacia confusa*, *Dalbergia odorifera* and *Senna siamea*, which *Acaica confusa* is also adopted as a pioneer tree. For shrubs planting species, from the Data Collection Report, *Rhododendron simsii* with good survival rate and health condition is adopted in the REEP as a shrubland mix species. **Table 4.1** has shown all the selected species for SENTX. Further details and result of the trail nursery works under both the SENT and SENTX projects will be adopted to refine the SENTX REEP.

### Table 4.1Proposed Planting Mixes for Use at SENTX

		Species	%		Species	%
		Woodland Mix A (Exposed)			Woodland Mix B (Sheltered)	
Pioneer spp.	A1	Acacia confusa	20	B1	Acacia auriculiformis	20
Climax spp.	A2	Keteleeria fortunei	16	B2	Machilus breviflora	16
	A3	Sapium sebiferum	12	B3	Ficus superba	16
	A4	Rhaphiolepis indica	12	B4	Litsea glutinosa	12
	A5	Pyhllanthus emblica L.	20	B5	Ficus microcarpa	16
	A6	Celtis sinensis	20	B6	Syzygium levinei	20
		Total	100		Total	100
		Woodland Mix C (Amenity)			Woodland Mix D (Firebreak)	
Pioneer spp.	C1	Acacia confusa	20	D1	Acacia confusa	20
Climax spp.	C2	Pongamia pinnata	20	D2	Ficus microcarpa	60
	C3	Rhodomyrtus tomentosa	12	D3	Schima superba	20
	C4	Llex asprella	12			
	C5	Phyllanthus emblica L.	16			
	C6	Rhodoleia championii	20			
		Total	100		Total	100
		Shrubland Mix A			Woodland Mix B (Food Plants of Butterfly included)	
Pioneer spp.	SA1	Acacia mangium	20	SB1	Acacia auriculiformis	20
Climax spp.	SA2	Syzygium buxifolium	16	SB2	Rhaphiolepis indica	16
	SA3	Rhododendron simsii	12	SB3	Rhododendron simsii	16
	SA4	llex asprella	12	SB4	llex asprella	12
	SA5	Phyllanthus emblica L.	20	SB5	Urena lobate	16
	SA6	Lespedeza Formosa	20	SB6	Vitex negundo L. var. cannabafolia	20
		Total	100		Total	100

ENVIRONMENTAL RESOURCES MANAGEMENT

#### SOILS AND SOIL AMELIORANTS

4.3

The soil medium is only one of a number of layers of material that will be deposited as part of the landfill and restoration of the SENTX site (see *Figure 4.7*). However, providing a good soil medium is important to the establishment and growth of planting in the restored areas.

Prior to first phase landscape restoration at SENT, a number of soil medium, soil conditioner and soiling method trials were carried out and it was determined that the optimal soiling method was to pit plant seedlings into the final cover layer composed of screened CDG and C&D Fines, and backfill them with soil mix to meet the specification of the Civil Engineering & Development Department (CEDD) of the HKSAR Government's General Specification for Engineering Works. The detail of the specification as follows (also see *Figure 4.7*):

#### CEDD GS Clause 3.30

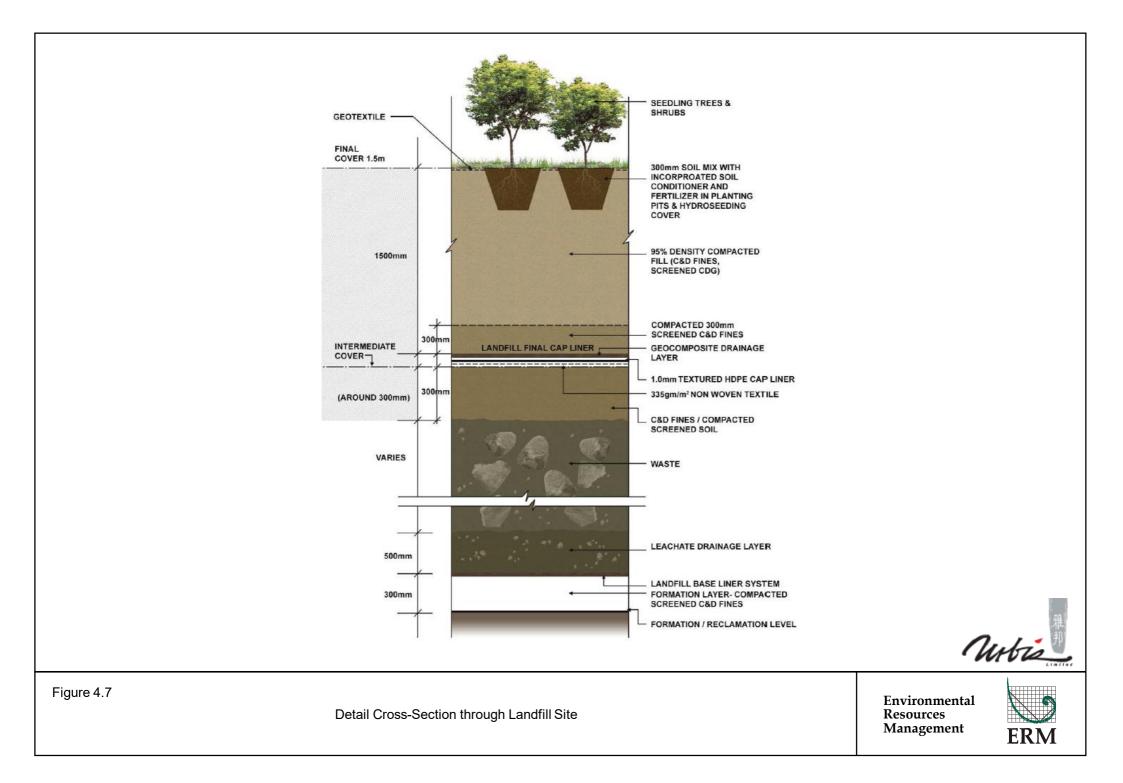
- (1) Soil-mix shall be ready and evenly mixed before delivery onto the Site.
- (2) Soil-mix shall consist of friable, completely decomposed granite and soil conditioner in the proportions of 3:1 by volume. Soil-mix shall be free of grass or weed growth, sticky clay, salt, chemical contamination, and any other deleterious materials and stones exceeding 25 mm diameter in any direction, and shall possess the following properties: (a) PH value between 5.5 and 7.0; (b) Organic matter more than 10%; (c) Nitrogen content more than 0.2%; GS (2006 Edition) 3.10 (d) Extractable phosphorous (P) content more than 45 mg/kg; (e) Extractable potassium (K) content more than 240 mg/kg; (f) Extractable magnesium (Mg) content more than 80 mg/kg; (g) Soil texture content: Sand (0.05 2.0 mm): at the range of 20% 75%; Silt (0.002 0.05 mm): at the range of 5% 60%; Clay (less than 0.002 mm): at the range of 5% 25%.

### CEDD GS Clause 3.31(1)

Soil conditioner shall be organic material and shall be free of weed growth, impurities, foreign materials, contamination and substances injurious to plants. Soil conditioner shall have the following properties: (a)PH value between 5.0 and 7.5, (b) Moisture content measured in accordance with Clause 6.78(2) between 30% and 50%, (c) Fine and freely flowing consistency, (d) Stable composition, (e) Not capable of raising the temperature of the treated soil more than 50 °C above the temperature of the untreated soil, (f) Not giving off toxic nor obnoxious fumes, (g) Organic matter content not less than 85% (dry matter), and (h) Carbon: nitrogen ratio between 20 and 55.

### CEDD GS Clause7.98(1)

Biodegradable mats for erosion control shall be woven coir mesh mats or woven jute mats. The mats shall have the material properties stated in the Contract. (2) The mats must be produced by proprietary manufacturers and specifically designed for the erosion control of sloping ground.



Topsoiling will involve depositing 1.5m of screen CDG and C&D fines as subsoil over the impermeable liner. CDG should be as described in Geoguide 3, *Guide to Rock and Soil Descriptions 1988*.

A Soil mix will be a free drainage material of sandy loam character, and should be evenly textured, fertile, and dark brown or black in colour. Soil mix will be free from pest, such as red imported fire ants. It should be delivered and backfilled on site which is tested for N/P/K value, organic matter content, pH value, physical content of sand, slit and clay, and water content, etc. The analysis should be carried out by a laboratory certified by the Independent Consultants and approved by the Employer's Representative.

Soil conditioner should be properly composted organic material. Composed organic material should be stable and should not be liable to decompose further generating heat. Certificate of analysis stating composition and physical and chemical characteristics of the soil conditioner. The analysis should be carried by a laboratory by the Employer's Representative.

A geotextile jute or coir matting will be laid together with the finished soil layer in order to ensure slope stability and prevention of erosion. This matting ensures erosion control and at the same time allows plants to grow through it. This will then decompose naturally and add to soil organic matter.

Seedling trees will then be pit planted into this medium with pits being a minimum of 300mmm x 300mm x 300mm. Slow release N:P:K fertiliser will also be added to the backfill.

Soil-mix will be used as a planting medium for compensatory planting in accordance with Section 3.30 of *General Specification for Civil Engineering Works* (2020 Edition). According to the Specifications, the soil-mix "consists of friable, completely decomposed granite and soil conditioner in the proportions of 3:1 by volume. It is free of grass or weed growth, sticky clay salt, chemical contamination, and any other deleterious material and stones exceeding 25 mm diameter in any direction, and shall possess the following properties:

- a) PH value between 5.5 and 7.0;
- *b)* Organic matter more than 10%;
- c) Nitrogen content more than 0.2%
- *d)* Extractable phosphorous (P) content more than 45mg/kg;
- e) Ext5ractable potassium (K) content more than 240 ,g/kg;
- *f) Soil texture content:*

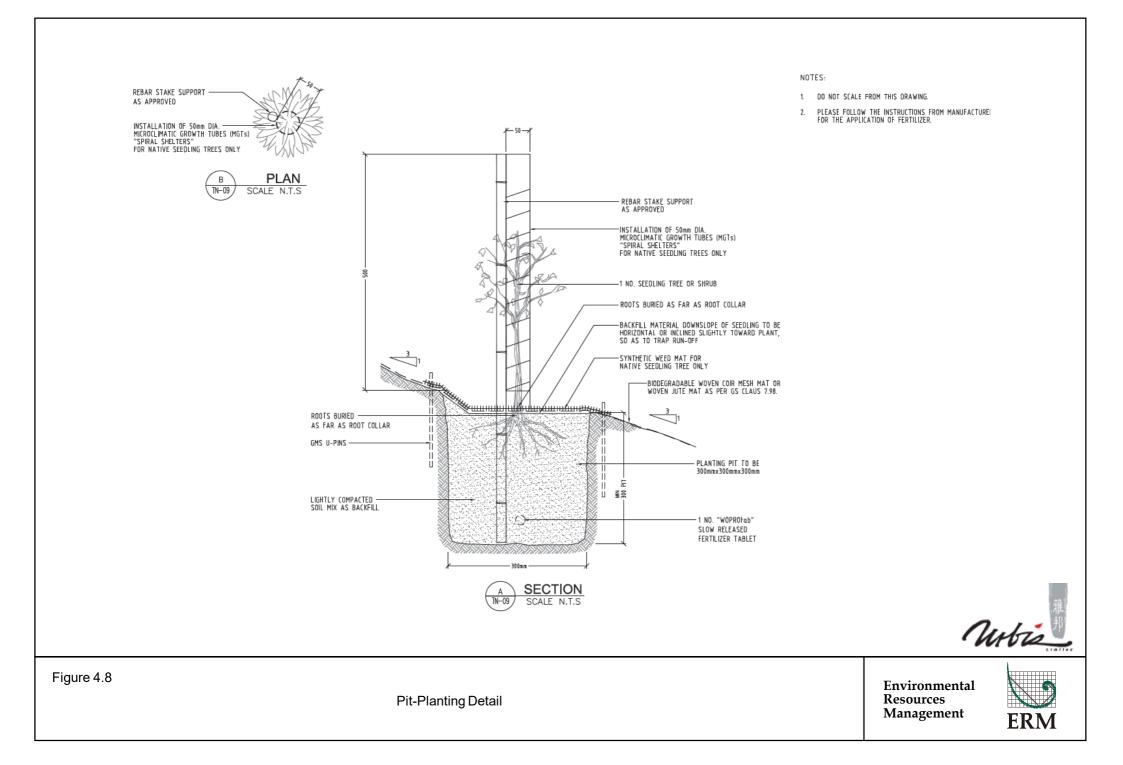
Sand (0.05 – 2.0mm)	at the range of 20%-75%;
Silt (0.002 – 0.05mm)	at the range of $5\%$ - $60\%$ ;
Clay (less than 0.002 mm)	at the range of 5% - 25%.

### 4.4 METHOD OF PLANTING

Seedling trees and shrubs will be pit planted as described above in the soiling section of the report at 1.5m centres (see approved EIA Landscape Mitigation Measure AM4). Once soil mix has been backfilled, it will be firmed up and a slight depression created around the seedling to help catch runoff water.

For native species, a 300 x 300mm piece of synthetic weed mat will be pinned using U-pins around the seeding in order to suppress weed growth and competition.

Finally, for native species, a plastic microclimatic growth tube (MGT) of approved design will be placed around native species seedling to provide protection from wind burn and desiccation. The MGT will be fixed in place by one or more metal rebar stakes driven into the ground to a depth of at least 150mm (see *Figure 4.8*).



### 5 IMPLEMENTATION PROGRAM, MAINTENANCE AND MANAGEMNT

### 5.1 IMPLEMENTATION PROGRAM

Construction works will commence in 2019, two years prior to commencement of waste filling. The Extension will be developed and operated under four phases, and each will last for about two year (*Annex B* for drawings of construction phases).

Upon the completion of each phase, the areas that reached the final profile will begin restoration immediately. Therefore a tentative programme for restoration and ecological enhancement is as follows:

- Construction Commencement: 2019
- Completion of Phase 1 Filling Mid 2022
- Completion of Phase 1 Capping & Earthworks Restoration End 2022
- Completion of Phase 1 Restoration and Ecological Enhancement Mid 2023
- Completion of Phase 2 Filling Mid 2023
- Completion of Phase 2 Capping & Earthworks Restoration End 2023
- Completion of Phase 2 Restoration and Ecological Enhancement Mid 2024
- Completion of Phase 3 Filling Mid 2025
- Completion of Phase 3 Capping & Earthworks Restoration End 2026
- Completion of Phase 3 Restoration and Ecological Enhancement Mid 2027
- Completion of Phase 4 Filling Mid 2027
- Completion of Phase 4 Capping & Earthworks Restoration End 2027
- Completion of Phase 4 Restoration and Ecological Enhancement Mid 2028
- Completion of Final Restoration and Park Admin Office and Visitor Facilities TBA

### 5.2 MANAGEMENT AND MAINTENANCE

Designing the REEP for SENTX and implementing that design is not enough to ensure that a diverse, functional and visually pleasing landscape and environment will develop. Only through a long-term programme of restoration and ecological enhancement management can the actions of the various parties who may be involved in maintaining the site, be co-ordinated and directed so as to ensure that habitats and planting develops as intended and that the amenity of the site is preserved for recreational users.

Ecological diversity cannot be optimised by leaving a site solely to nature. The problem with this approach is that in the short-term, certain species that are naturally dominant will tend to outcompete or suppress less vigorous species. Natural woodland and scrub habitats can take decades to develop their full range of ecological niches and natural diversity, through a process of succession, decay and regrowth. Simple management techniques can assist in this process and effectively help to diversify woodland and shrub habitats sooner than might be the case if left to develop naturally.

Management is also important in creating and maintaining a recreational facility that is useable and attractive to the public. The clearance of paths and maintenance of essential features such as drainage channels and maintenance paths are all part of the management process.

For keeping topsoil layer quality, maintenance works such as watering, weeding, fertilization and aeration, etc. should be undertaken regularly. Removal of invasive weed/ weed trees should be supplemented in the routine maintenance works. On the other hand, if the exotic tree plantings are casting excessive shade on other planting, crown thinning should be carry out to the exotic tree plantings. Each session of the crown thinning should not remove more than 25% of live foliage of each tree, with at least 3-month interval in-between each session. If any dead and/or unsatisfactory tree and/or shrub is found, replacement of tree and/or shrub (may not necessarily be the same species) should be taken.

Ultimately the maintenance degree on restored and ecological enhanced site will be diminished year by year and until the end of the 30 years aftercare period. *Table 5.1* to *Table 5.4* shows the ecological and landscape maintenance work schedule.

# Table 5.1Ecological & Landscape Maintenance Works Schedule (Woodland and Shrub<br/>Planting Areas)

Operations (per Year)	Year 1	Year 2-5	Year 5-10	Year 10-30
Inspection planted areas and firm-up loose plants in all areas	12	4 (Years 2&3)	1	1
Inspect typhoon damage, firm up and remove damaged wood resulting	As required	As required	As required	As required
Remove invasive weeds and/ or plants from all planting areas	12	4 (Years 2&3) 2 (Years 4&5)	1	As required
Removal of invasive plant including <i>Leucacena</i> <i>leucocephala</i> from all planting areas	12	4 (Years 2&3) 2 (Years 4&5)	1	As required
Check, replace, reinstate MGTs and Weed Mat	12	12 (Year 3)	-	-
Remove litter	12	12	12	-
MGTs and Weed Mats	Install (Year 1)	Remove (Year 2)	-	-
Remove dead wood	As required	As required	-	-
Inspect plantings (incl. pests/ fungus and treat as necessary)	4	4	2	1
Thin plantation of non- native nurse species to favour native species	-	As required depending on success of native plant establishment	As required depending on success of native plant establishment	As required depending on success of native plant establishment
Cut back vegetation next to footpaths	-	1	1	2
Apply slow-release fertiliser	2 (March & June)	1 (March)	-	-
Watering planting areas	As required	As required	-	-
Grass cutting (with strimmer)	4	4	As required (depending on canopy closure)	-
Soil aeration	4	4	2	1
Crown thinning	As required	As required	-	-

ENVIRONMENTAL RESOURCES MANAGEMENT

GREEN VALLEY LANDFILL LIMITED

<b>Operations</b> (per Year)	Year 1	Year 2-5	Year 5-10	Year 10-30
Replacement of dead/ unsatisfied planting	As required	As required	-	-

## Table 5.2Ecological & Landscape Maintenance Works Schedule (Grassland Planting<br/>Areas)

<b>Operations (per Year)</b>	Year 1	Year 2-5	Year 5-10	Year 10-30
Inspection hydroseeded areas	12	4	2	1
Remove litter	12	12	12	-
Inspection typhoon damage, make good erosion	As required	As required	As required	As required
Remove invasive weeds and/or plants from all hydroseeded areas	12	4	2	As required
Removal of invasive plant including <i>Leucacena</i> <i>leucocephala</i> from all planting areas	12	4 (Years 2&3) 2 (Years 4&5)	1	As required
Inspect for pests/ fungus and treat as necessary	4	4	2	1
Apply slow-release fertiliser	2 (March & June)	1 (March)	-	-
Watering	As required	As required	-	-
Grass cutting (with motorised mower)	1	1	1	1

<b>Operations (per Year)</b>	Year 1	Year 2-5	Year 5-10	Year 10-30
<u>Drainage</u>				
Clear drains of leaf litter and as required obstructions	As required	As required	As required	As required
Inspect and repair drains (as required)	4	4	4	4
Track and Access Roads				
Inspect surfaces, etc. for damage	4	4	4	4
Repair damage	As required	As required	As required	As required
Spray out weeds	2	2	2	2
Pavilions and Site Furniture				
Inspection for typhoon damage	As required	As required	As required	As required
Spray out weeds	4	4	4	4
Footpath				
Inspect and make good (as required)	4	4	4	4
Spray out weeds	2	2	2	2
Landscape on Retained Slopes and Natural Slopes				
Inspect and make good (as required)	4	4	4	4
Inspect for erosion after very heavy rainstorms	As required	As required	As required	As required

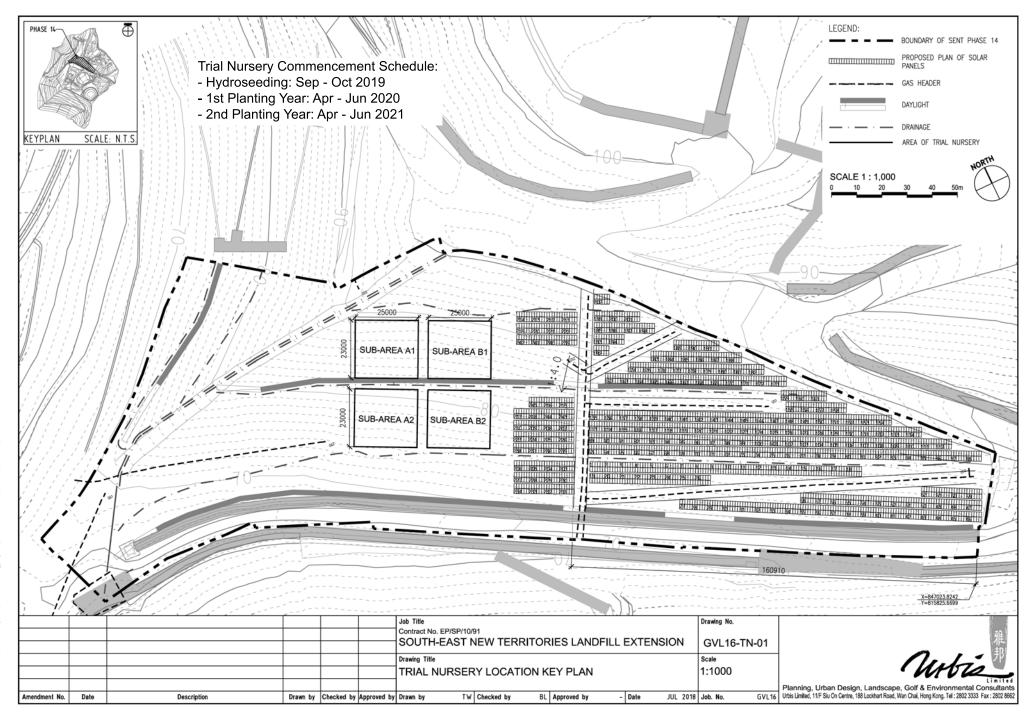
# Table 5.3Ecological & Landscape Maintenance Works Schedule (Other Landscape<br/>Features)

Table 5.4	Ecological & Landscape Maintenance Works Schedule (Monitoring)
-----------	--

Operations (per Year)	Year 1	Year 2-5	Year 5-10	Year 10-30
Ecological monitoring	2	2	1	1
Monitor planting trials	2	2	1	1
Review Management Plan	1	1	1	As required
Soil monitoring	1	1	1	1
Fencing Around Trial Nursery Sub-Areas (Monitoring Blocks)	1 (install at Year 1)	-	1 (Remove at Year 5)	-
Check and make good fencing around Trial Nursery Sub-Areas (Monitoring Blocks)	4	4	-	-

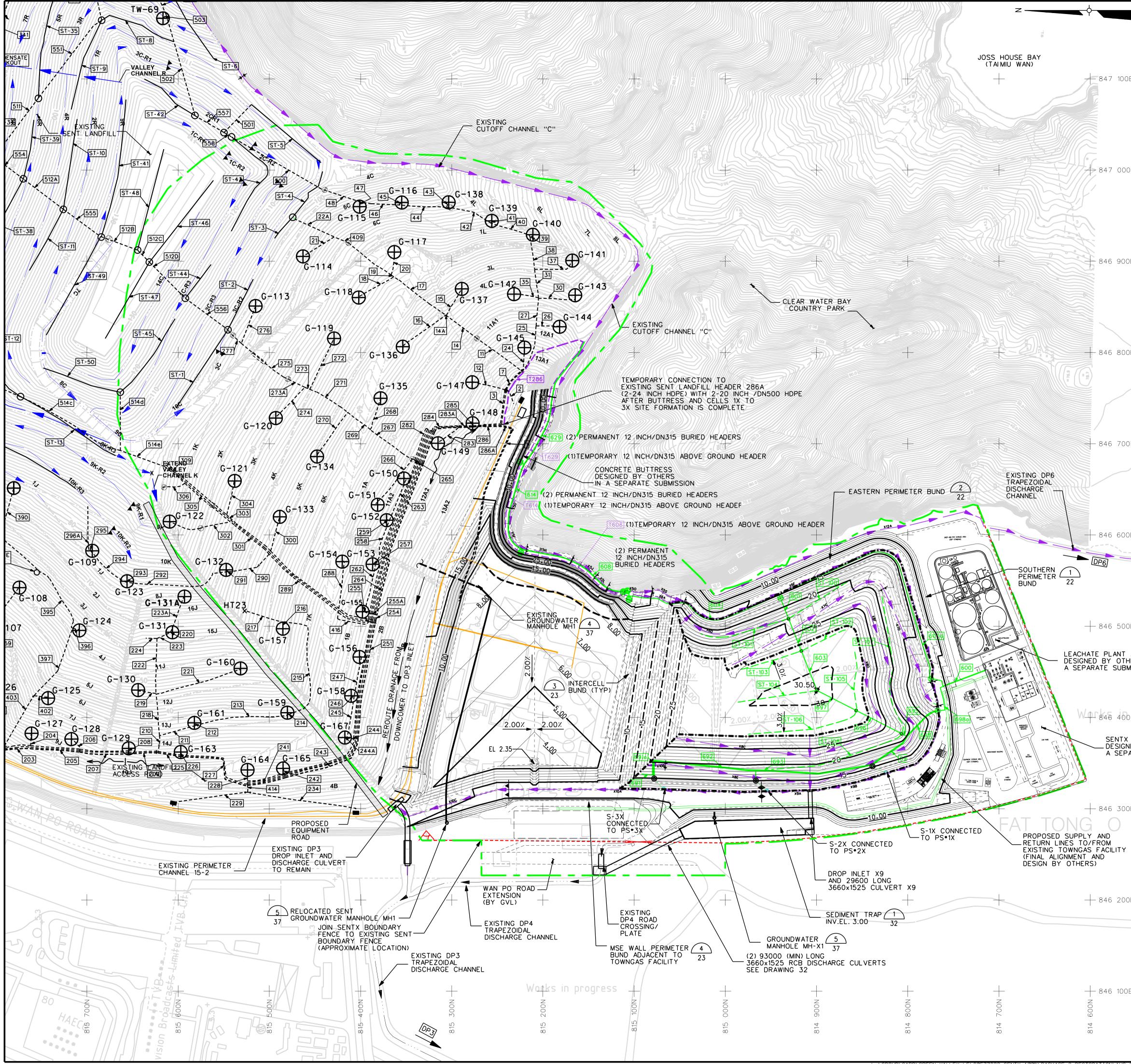
Annex A

Trial Nursery Location and Commencment Schedule

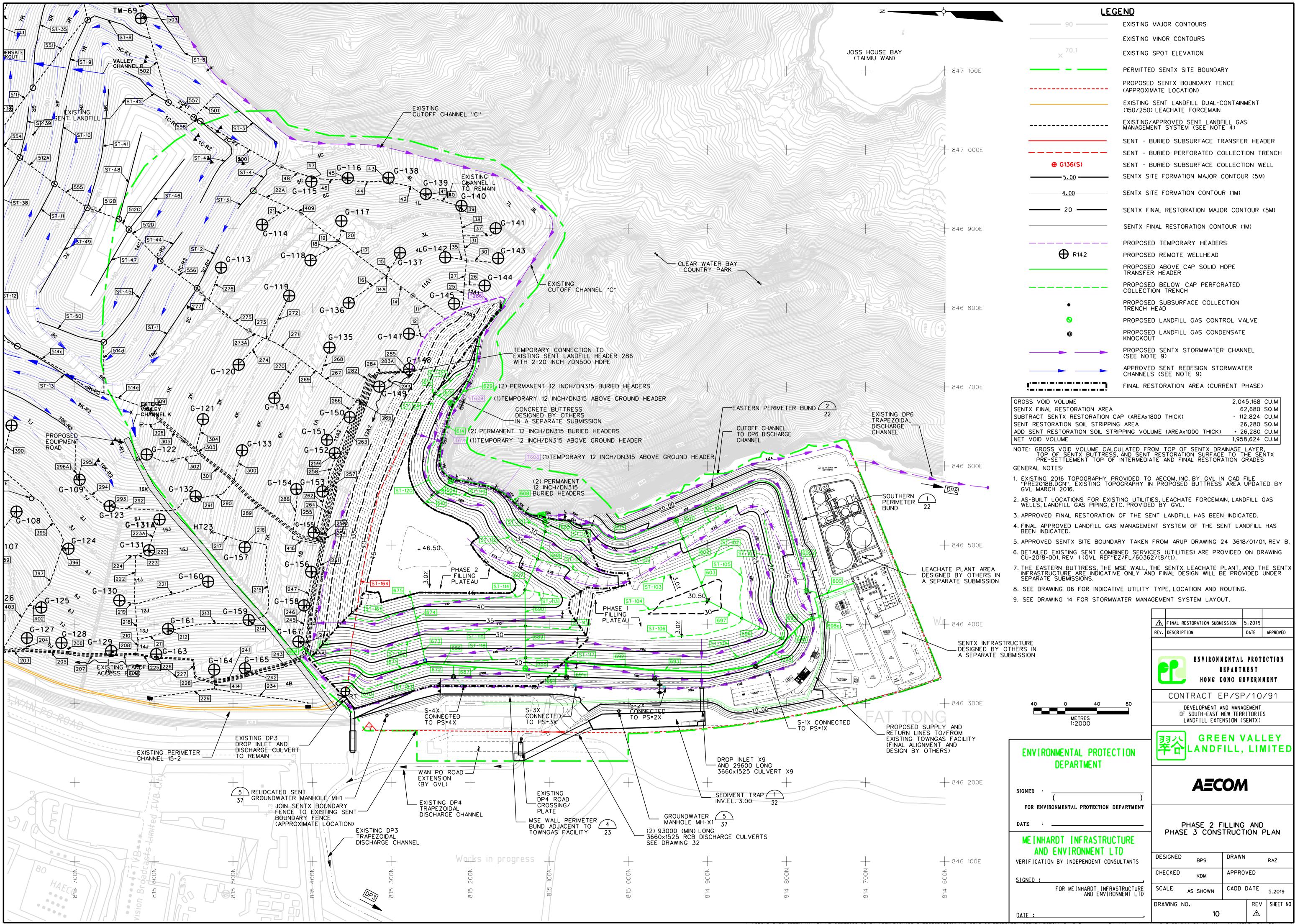


Annex B

Construction Phase of SENTX Landfill

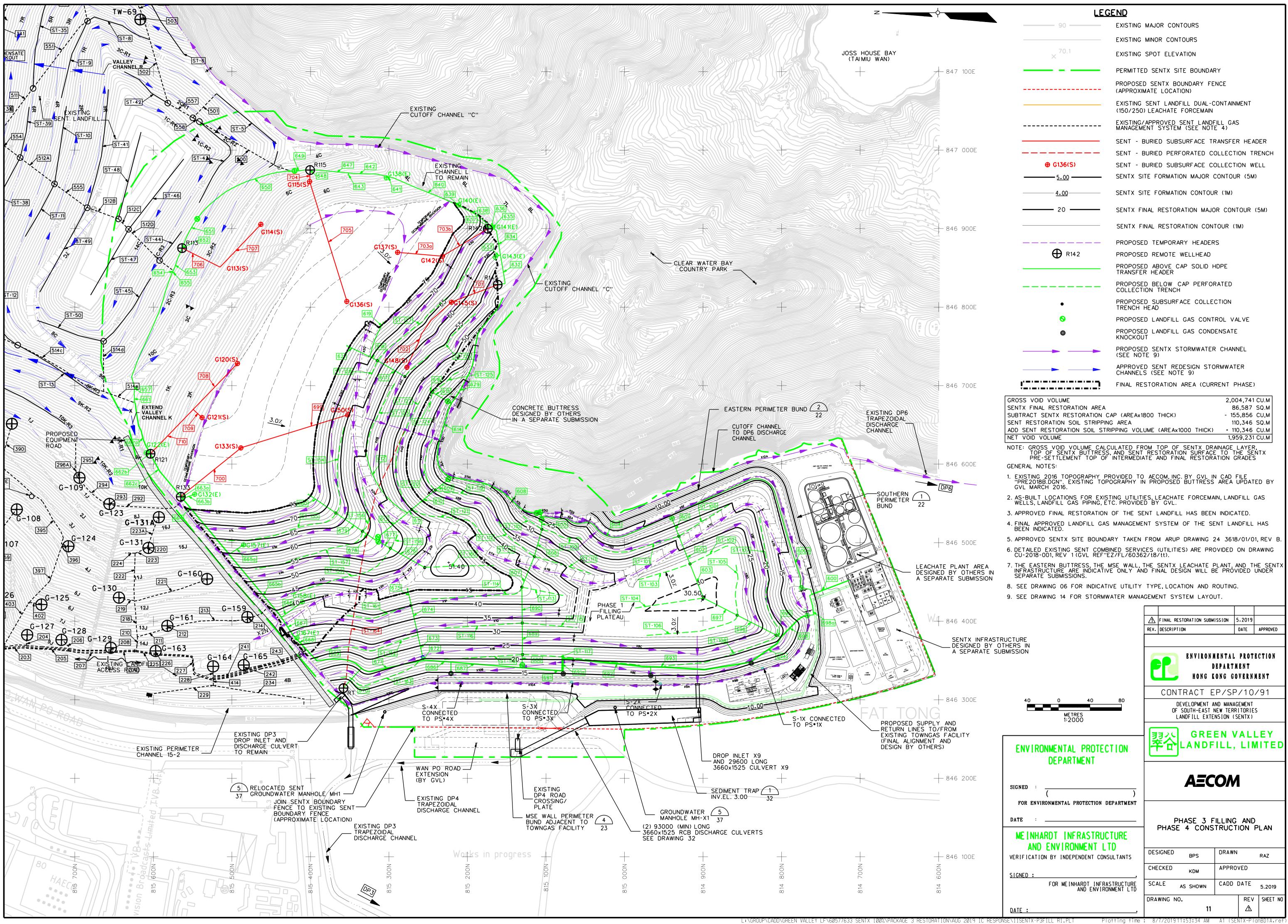


z	LEGEND	
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	EXISTI	NG MINOR CONTOURS
JOSS HOUSE BAY (TAIMU WAN)	× <sup>70.1</sup> EXISTI	NG SPOT ELEVATION
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	PROPC	SED SENTX BOUNDARY FENCE
		DXIMATE LOCATION)
		NG SENT LANDFILL DUAL-CONTAINMENT 50) LEACHATE FORCEMAIN
	EXISTI	NG/APPROVED SENT LANDFILL GAS EMENT SYSTEM (SEE NOTE 4)
		- BURIED SUBSURFACE TRANSFER HEADER
847 000E		- BURIED PERFORATED COLLECTION TRENCH
		- BURIED SUBSURFACE COLLECTION WELL
	5.00 SENTX	SITE FORMATION MAJOR CONTOUR (5M)
		SITE FORMATION CONTOUR (1M)
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poli in the second s		SED TEMPORARY HEADERS
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	O PROPO KNOCK	
		SED SENTX STORMWATER CHANNEL NOTE 9)
		VED SENT REDESIGN STORMWATER
		ELS (SEE NOTE 9) RESTORATION AREA (CURRENT PHASE)
+ 846 700E		
	GROSS VOID VOLUME SENTX FINAL RESTORATION AREA	1,037,190 CU.M 44,553 SQ.M
EXISTING DP6 TRAPEZOIDAL DISCHARGE	SUBTRACT SENTX RESTORATION CAP (ARE SENT RESTORATION SOIL STRIPPING AREA	Ax1800 THICK) - 80,195 CU,M 0 SQ.M
ERN PERIMETER BUND (2) 22 DISCHARGE CHANNEL	ADD SENT RESTORATION SOIL STRIPPING V	OLUME (AREAx1000 THICK) + 0 CU.M 956,995 CU.M
		FROM TOP OF SENTX DRAINAGE LAYER, NT RESTORATION SURFACE TO THE SENTX DIATE AND FINAL RESTORATION GRADES
	GENERAL NOTES: 1. EXISTING 2016 TOPOGRAPHY PROVIDED	TO AECOM, INC. BY GVL IN CAD FILE IN PROPOSED BUTTRESS AREA UPDATED BY
	GVL MARCH 2016.	IN PROPOSED BUTTRESS AREA UPDATED BY
SOUTHERN 1 PERIMETER 1 BUND 22	2. AS-BUILT LOCATIONS FOR EXISTING UTI WELLS, LANDFILL GAS PIPING, ETC. PROV	LITIES, LEACHATE FORCEMAIN, LANDFILL GAS IDED BY GVL.
	3. APPROVED FINAL RESTORATION OF THE	SENT LANDFILL HAS BEEN INDICATED.
	<ol> <li>FINAL APPROVED LANDFILL GAS MANAGE BEEN INDICATED.</li> </ol>	MENT SYSTEM OF THE SENT LANDFILL HAS
+ 846 500E		EN FROM ARUP DRAWING 24 3618/01/01, REV B.
	6. DETAILED EXISTING SENT COMBINED SEF CU-2018-001, REV 1 (GVL REF''EZ/FL/60	RVICES (UTILITIES) ARE PROVIDED ON DRAWING 362/t8/tt).
LEACHATE PLANT AREA DESIGNED BY OTHERS	INFRASTRUCTURE ARE INDICATIVE ONLY	L, THE SENTX LEACHATE PLANT, AND THE SENTX AND FINAL DESIGN WILL BE PROVIDED UNDER
A SEPARATE SUBMISSIO		TY TYPE LOCATION AND ROUTING.
	9. SEE DRAWING 14 FOR STORMWATER MA	
	ogre	FINAL RESTORATION SUBMISSION 5.2019
SENTX INFR	ASTRUCTURE	REV. DESCRIPTION DATE APPROVED
	SY OTHERS IN E SUBMISSION	
		ENVIRONMENTAL PROTECTION DEPARTMENT
		HONG KONG GOVERNMENT
		CONTRACT EP/SP/10/91
10.00 + 846 300E	40 0 40 80	DEVELOPMENT AND MANAGEMENT DF SOUTH-EAST NEW TERRITORIES
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TO PS+1X PROPOSED SUPPLY AND RETURN LINES TO/FROM EXISTING TOWNGAS FACILITY		- जित्र - GREEN VALLEY
(FINAL ALIGNMENT AND DESIGN BY OTHERS)	ENVIRONMENTAL PROTECTION	举合 LANDFILL, LIMITED
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+ + 846 200E	SIGNED :	AECOM
32 RAP ( 1 )	FOR ENVIRONMENTAL PROTECTION DEPARTMENT	
EDIC	DATE :	- PHASE 1 FILLING AND PHASE 2 CONSTRUCTION PLAN
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	AND ENVIRONMENT LTD VERIFICATION BY INDEPENDENT CONSULTANTS	DESIGNED BPS DRAWN RAZ
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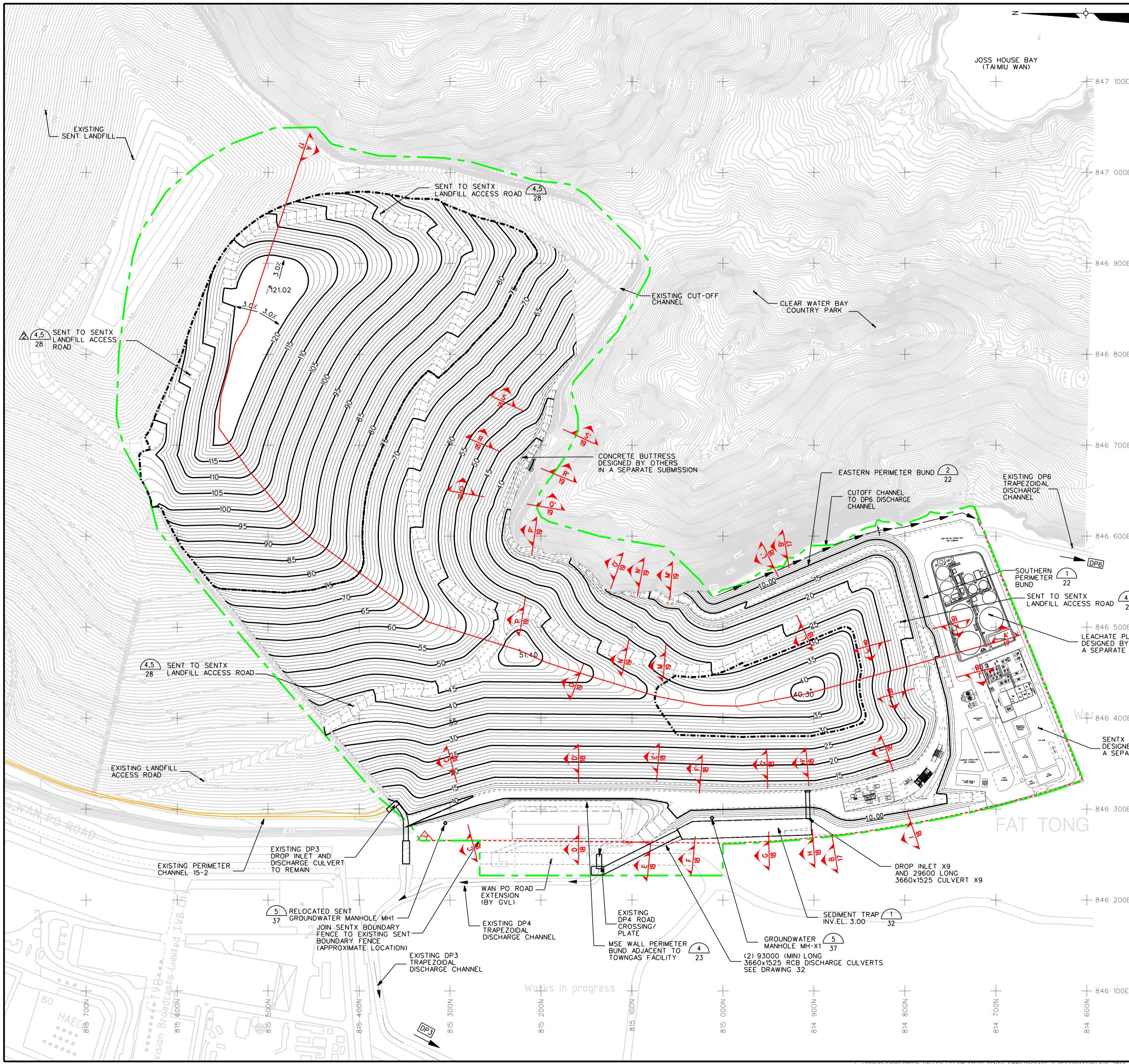


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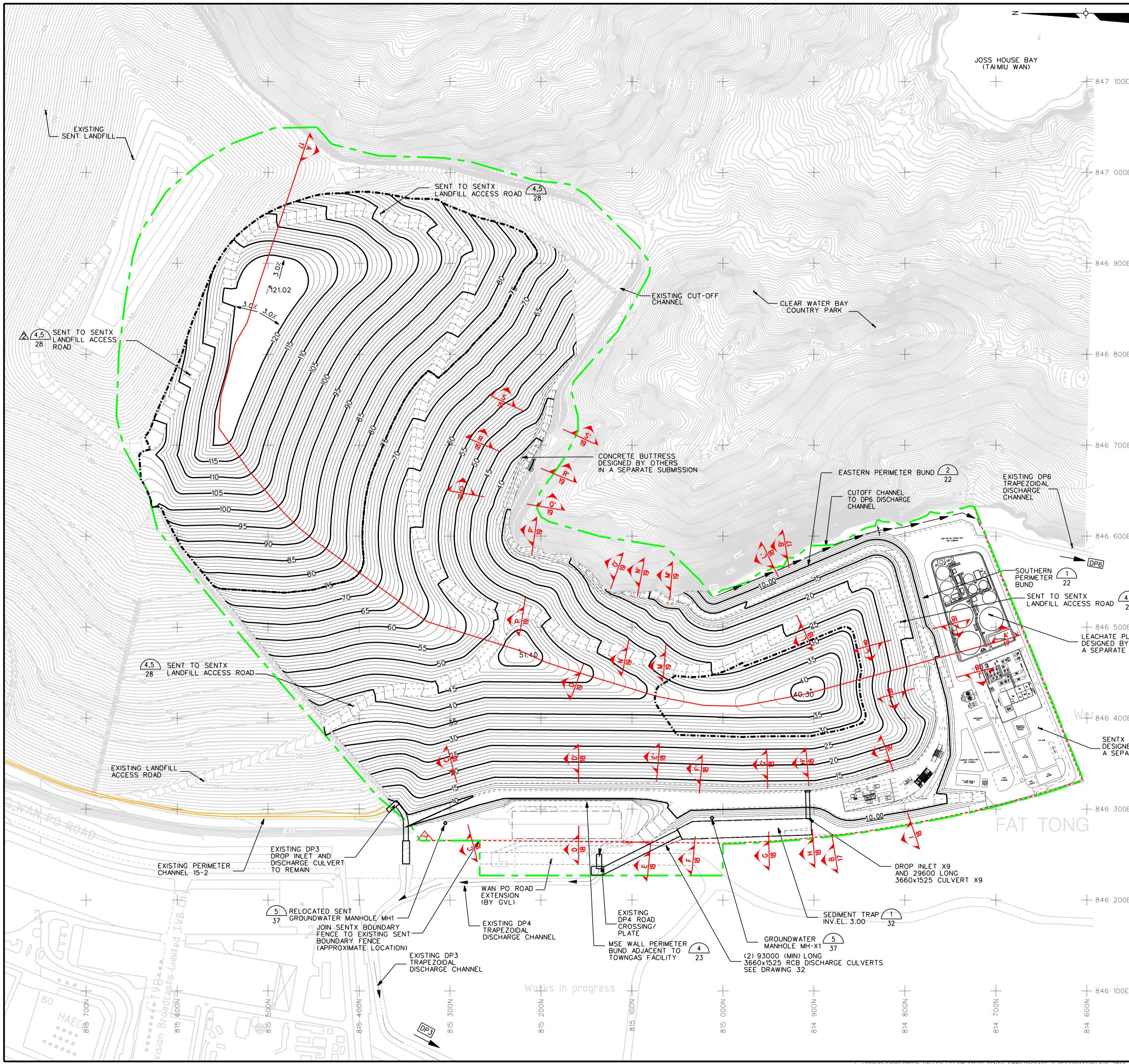


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28	5. DETAILED EXISTING SENT COMBINE DRAWING CU-2018-001, REV 1 (GVL	REF"EZ/FL/60362/t8/	′tt).	
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Annex C

Final Restoration Grades (Pre-Settlement Plan)

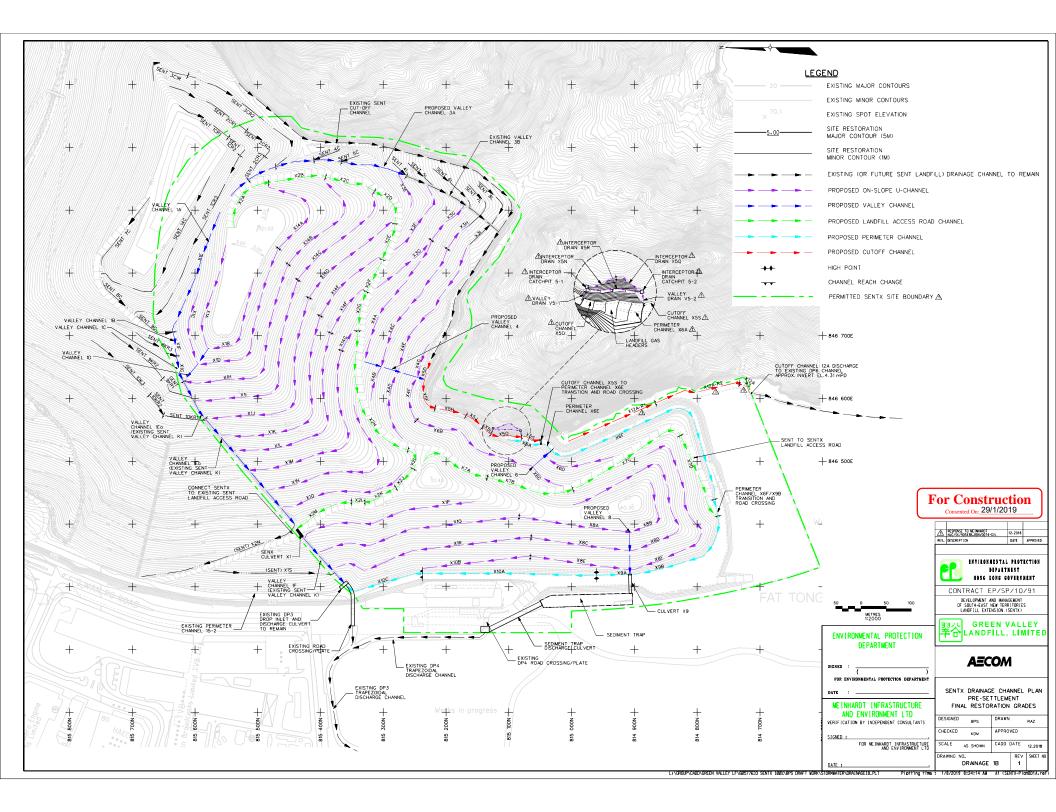


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		A ADDED ACCESS ROAD, REV.		
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Annex D

## SENTX Drainage Channel Plan



Annex E

Trial Nursery Site Inspection Report No. 1 – 9 for SENTX Landfill and Trial Nursery Planting Monitoring Data Collection Report No.1

## **Record of Site Inspection No. 1**

Cloudy



Project			Job No.
Contract No. EP/SP/10/91 South East New Territories	GVL16		
Trial Nursery		and the second second	
Date : 12 March 2020	Report No: 1	Present : GVL : Mr. Carl Lai, Mr. Sa	m Chan
Photos Taken : Yes	Weather:	HK Landscaping (HKL) : N	

URBIS : Ms. Kity Pang, Mr. Freddy Wan

Item	Notes			Action
1.0	Meeting Notes			
1.0	HK Landscaping submitted sample photos submissions for tree and shrub		Note	
	seedlings to be planted at Trial Nursery.			
1.1	HK Landscaping reported that following seedlings are short of market supply			Note
	and proposed substitution species correspondingly:			
		Species in shortage	Proposed substitution species	
		Syzygium buxifolium	(Syzygium myrtifolium)	
		Gliricidia sepium	(Cassia nodosa)	
		Ficus virens	(Ficus microcarpa)	
		Litsea monopetala	(Machilus chekiangensis)	
		Keteleeria fortunei	(Pinus massoniana)	
		Syzygium hancei	(Syzygium jambos)	
1.2	With regard to above Item 1.1a, URBIS counter-proposed Lespedeza formosa as substitution species for Syzygium buxifolium.HK Landscape expressed seedlings of Lespedeza formosa should be available at the market.			Note
1.3	With regard to above Item 1.1b, URBIS suggested accepting the proposed		Note	
	substitution species Cassia nodosa.			
1.4	With regard to above Item 1.1c, URBIS suggested HK Landscaping continue to		HKL	
	source seedlings of Ficus virens at the market, in view that the actual planting			
	period of this species will only start in Year 2.			
1.5	With regard to above Item 1.1d, URBIS suggested accepting the proposed		Note	
	substitu	ution species Machilus cheki	angensis.	
1.6	With regard to above Item 1.1e & f, URBIS reported that AFCD replied the seedlings of <i>Keteleeria fortunei</i> and <i>Syzygium hancei</i> are available at their nursery for use to other government departments.         Therefore, GVL would need to contact EPD for their assistance to obtain AFCD's seedlings.			GVL
1.7	GVL requested URBIS to help write requisition letter for them to enquire EPD.			URBIS
1.8	Following is the summary table for the solutions addressing the shortage of			Note
	seedlings in above Item 1.1:			
		Species in shortage	Proposed solution	
	a)	Syzygium buxifolium	(substituted by Lespedeza formosa)	
	b)	Gliricidia sepium	(substituted by Cassia nodosa)	
	c)	Ficus virens	(HKL continue to source Ficus virens)	
	d)	Litsea monopetala	(substituted by Machilus chekiangensis)	
	e)	Keteleeria fortunei	(GVL/EPD to obtain from AFCD)	
	f)	Syzygium hancei	(GVL/EPD to obtain from AFCD)	

### **Record of Site Inspection No. 1**

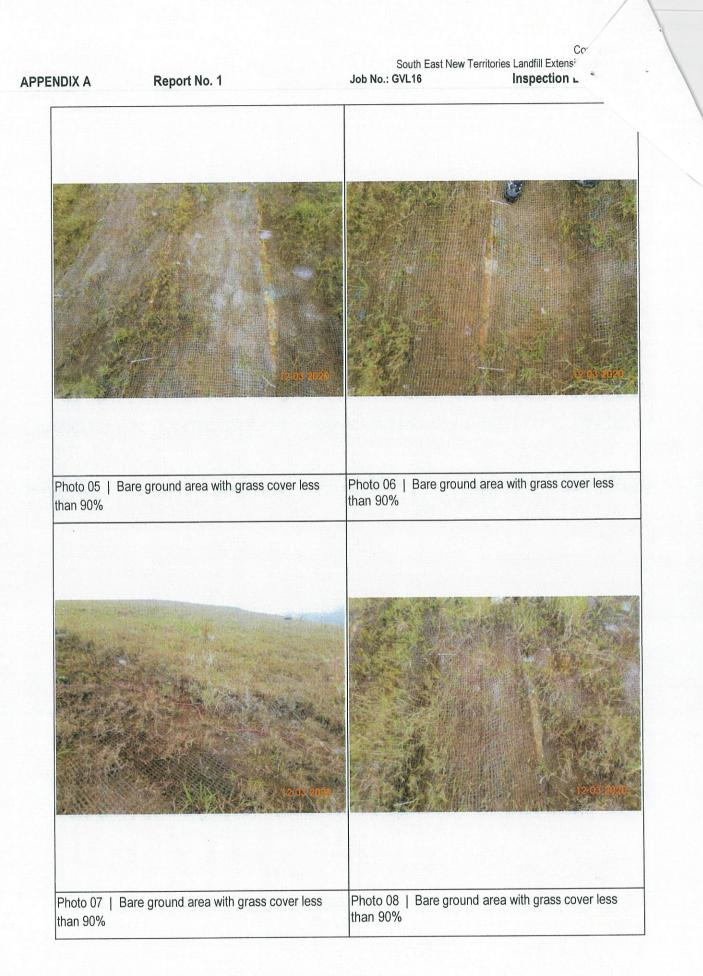


Project		Job No.	
	t No. EP/SP/10/91 ast New Territories Landfill Extension (SENTX) rsery	GVL16	
Item	Notes		
2.0	Findings at Trial Nursery Inspection		
2.1	The Trial Nursery Layout is inspected. The corners of the sub-area boun A1, A2, B1 and B2 are currently identified with iron rod. [Photo No. 01-GVL shall build the protective fencing around the boundaries of Sub-Ar	02]	GVL
	B1 and B2.		
2.2	Grass cover by hydroseeding grass species is less than 90%, which is no the requirement as in GS Clause 3.70. [Photo No. 03-08] GVL / HKL shall rehydroseed or reseed to achieve 90% cover before see trees and shrubs to be planted at Trial Nursery.		GVL / HKL
2.3	Soil erosion is also found at the bare ground area within the Trial Nursery. [Photo No. 03-08] GVL / HKL shall fill soil and regrade the slope to consistent gradient prior to		GVL / HKL
	rehydroseeding or reseeding at the bare ground areas.		
2.4	The weed species <i>Mikania micrantha</i> and <i>Leucaena leucocephala</i> are found. [Photo No. 09-12]		GVL / HKL
	GVL / HKL shall carry out weeding to remove all unwanted vegetative growth before tree and shrub seedlings to be planted at Trial Nursery.		
2.5	Red imported fire ants ( <i>Solenopsis invicta</i> ) are found within the Trial Nursery. [Photo No. 13-14]		GVL
	GVL shall remove red fire ants at Trial Nursery.		

Prepared by:

Wan Approved by: David Morker Kity Pang /Freddy Wan ety

Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery GVL16 Inspection Date: 12 March 2020 APPENDIX A Report No. 1 Job No.: GVL16 Photo 01 | General view of Trial Nursery Photo 02 | General view of Trial Nursery Photo 03 | Bare ground area with grass cover less Photo 04 | Bare ground area with grass cover less than 90% than 90%



Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery GVL16 Inspection Date: 12 March 2020 APPENDIX A Report No. 1 Job No.: GVL16 Photo 10 | Weed species Mikania micrantha to be Photo 09 | Weed species Mikania micrantha to be removed removed Photo 11 | Weed species Leucaena leucocephala to Photo 12 | Weed species Leucaena leucocephala to be removed be removed

NDIX A Report No. 1	South East Ne Job No.: GVL16	ew Territories Landfill Extensi Inspection 、
Photo 13   Nests of red imported fire ants to b removed	e Photo 14   Nests of removed	red imported fire ants to be

## Record of Site Inspection No. 2



Project Contract No. EP/SP/10/91 South East New Territorie Trial Nursery	GVL		
Date : 20 May 2020	Report No: 2	Present : GVL : Mr. Sam Chan	
Photos Taken : Yes	Weather: Cloudy	URBIS : Ms. Kity Pang, Mr. Freddy V	Van

Item	Notes	Action
1.0	Findings at Trial Nursery Inspection	
1.1	The Trial Nursery Layout is inspected. The sub-area boundaries of A1, A2, B1 and B2 are identified with evenly spaced rebars (~1-1.5m). <b>[Photo No. 01-04]</b>	
	Particular observations: [Photo No. 05-07]	
	<ul> <li><u>Sub-Area A1</u></li> <li>The wire protective fencing has been installed onto the rebars.</li> </ul>	
	<ul> <li>The entrance/gate has <u>not</u> been installed.</li> <li>All the rebars shall be covered with protective caps for safety but some are found <u>not</u> yet covered.</li> </ul>	
	Sub-Area A2	
	<ul> <li>The wire protective fencing has <u>not</u> been installed onto the rebars.</li> <li>The entrance/gate <u>not</u> been installed.</li> </ul>	
	<ul> <li>All the rebars shall be covered with protective caps for safety but all are found <u>not</u> yet covered.</li> </ul>	
	Sub-Area B1	
	<ul> <li>The wire protective fencing has been installed onto the rebars.</li> <li>The entrance/gate has <u>not</u> been installed.</li> </ul>	
	<ul> <li>All the rebars shall be covered with protective caps for safety but some are found <u>not</u> yet covered.</li> </ul>	
	Sub-Area B2	
	<ul> <li>The wire protective fencing has <u>not</u> been installed onto the rebars.</li> <li>The entrance/gate <u>not</u> been installed.</li> </ul>	
	<ul> <li>All the rebars shall be covered with protective caps for safety but all are found <u>not</u> yet covered.</li> </ul>	
	GVL shall carry out the outstanding works mentioned above to complete the installation of the protective fencing and the entrance of the Sub-Areas A1, A2, B1 and B2.	
1.2	Grass coverage within the Sub-Areas A1, A2, B1 and B2 has achieved at least 90% of the surface area, which is up to the requirement as in GS Clause 3.70. [Photo No. 08-12]	
	In an attempt to further improve the grass coverage, GVL / HKL shall concentrate	
	watering and promote stoloniferous growth of the grass at and around the bare spots which are observed sporadically within the Trial Nursery.	
1.3	Rills are occasionally found within the Trial Nursery. The majority of these rills have been covered by grass and stabilised by grass roots to an extent, and hence	GVL

### **Record of Site Inspection No. 2**

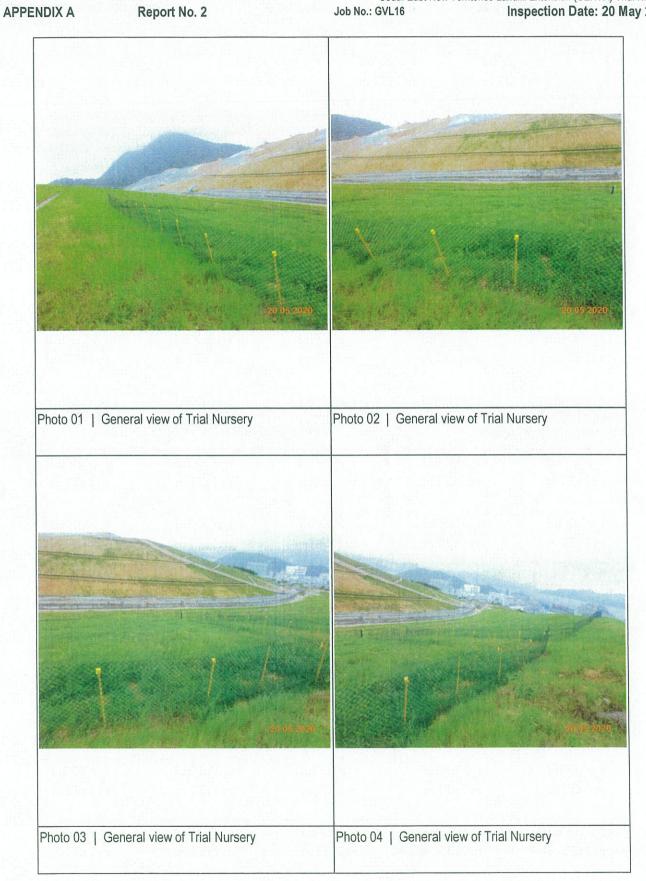


Project		Job No.	
Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery			
Item	Notes		Action
	GVL shall monitor whether the rills become larger due to further erosion. <b>No. 13-14</b> ]	[Photo	
	At areas where the rills coincide with bare soil, GVL shall till and grade th for gentle contour formation to retard surface runoff. Vegetative growth at the affected area should be encouraged as well for further stabilisation	of grass	
1.4	No <i>Leucaena leucocephala</i> but a few individuals of <i>Mikania micrantha</i> are found within/in the vicinity of the Trial Nursery. <b>[Photo No. 15-17]</b>		GVL / HKL
	GVL / HKL shall carry out routine monitoring for occurrence of <i>Mikania micrantha</i> and <i>Leucaena leucocephala</i> within/in the vicinity of the Trial N To keep the population of these noxious invasive weed species under co carry out immediate weeding to remove them once they are found.		
1.5	A nest of red imported fire ants ( <i>Solenopsis invicta</i> ) is found in the vicinity of the Trial Nursery. <b>[Photo No. 18]</b>		GVL
1.6	GVL shall remove the red fire ants within/in the vicinity of Trial Nursery.GVL installed automatic irrigation system (consisting of 6 nos. 1000-litretanks, pipes and electrical controller) for use in the Trial Nursery. [Photo		Note
	GVL will be installing 4 nos. sprinkler heads within each Sub-Area of the Trial Nursery. During this inspection, the locations are identified on site with rebars. Sprinkler heads will be installed at the rebar locations later.		
	The sprinkler head locations can be adjusted later to maximise the cover the irrigation water.	age by	

Prepared by: Kity Pang / Freddy Wan D Approved by:

David Morkel

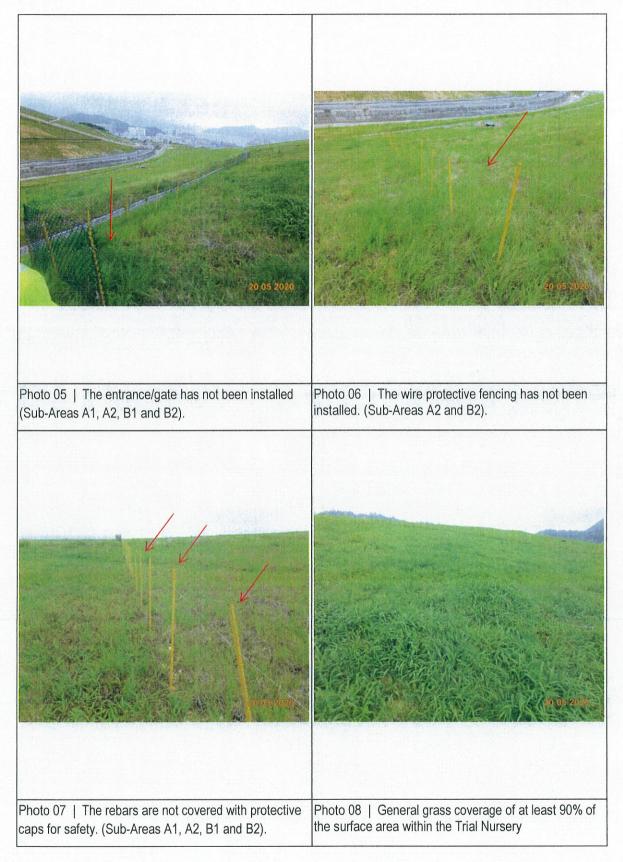
Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery Job No.: GVL16 Inspection Date: 20 May 2020

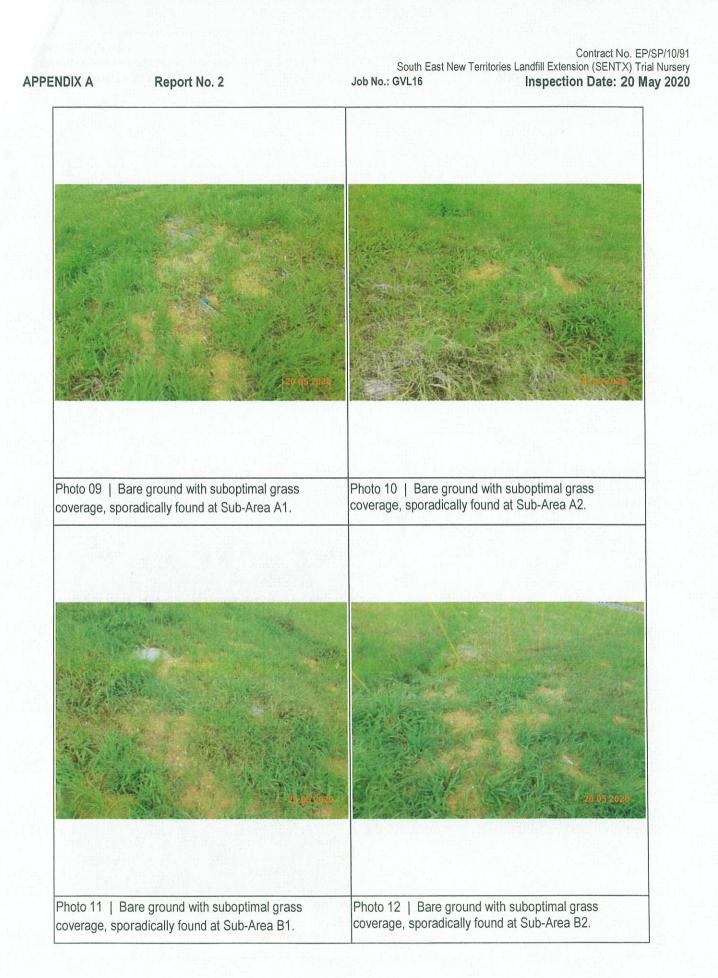


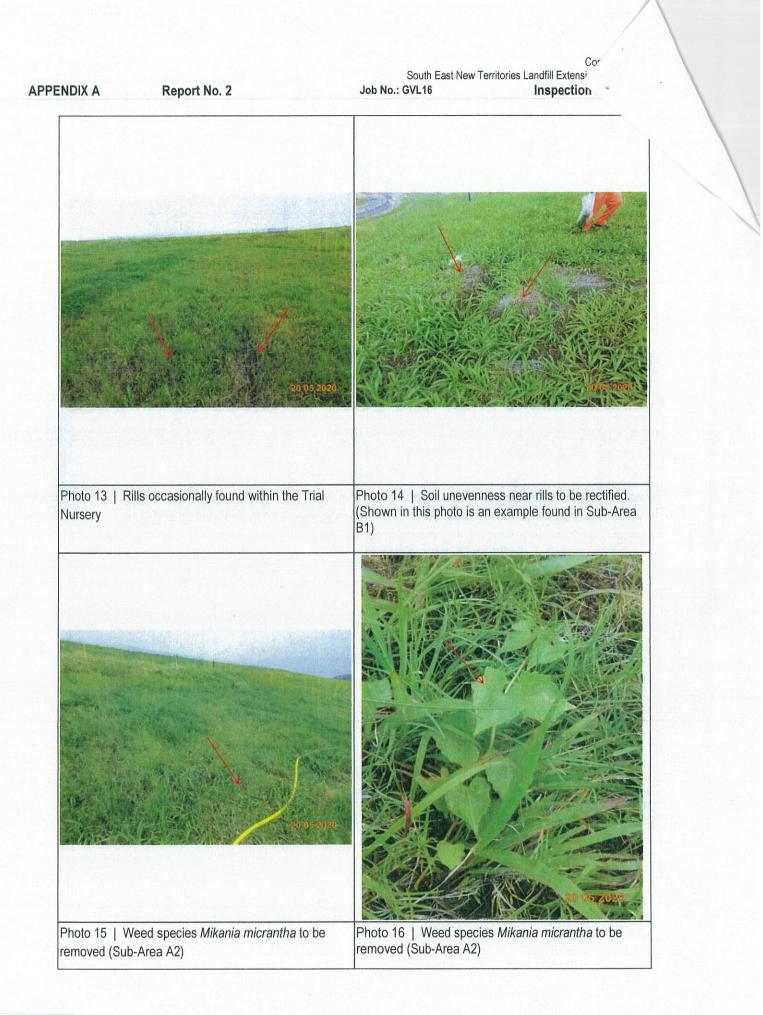
Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery Job No.: GVL16 Inspection Date: 20 May 2020



### Report No. 2







Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery GVL16 Inspection Date: 20 May 2020 APPENDIX A Report No. 2 Job No.: GVL16 Photo 18 | Nests of red imported fire ants to be removed (in the vicinity of Trial Nursery) Photo 17 | Weed species Mikania micrantha to be removed (in the vicinity of Trial Nursery) Photo 19 | Automatic irrigation system for Trial Nursery

Clear



Project			Job No.
Contract No. EP/SP/10/91 South East New Territories Trial Nursery	Landfill Extension (S	SENTX)	GVL16
Date : 22, 24 June 2020	Report No: 3	Present : GVL : Mr. Sam Chan	
Photos Taken : Yes	Weather:	URBIS : Ms. Anny Li, Mr. Free	ldy Wan

Item	Notes	Action
1.0	General	
1.1	<ul> <li>This report records the conditions of the planted seedlings at the Trial Nursery.</li> <li>Supplement information is provided in Appendices: <ul> <li>Appendix A – Photo record;</li> <li>Appendix B – Marked-up location of plants that required replacement and their respective condition</li> </ul> </li> </ul>	Noted
1.2	The soft Landscape Contractor is Hong Kong Landscaping Company Limited (hereafter referred to as HKL)	Noted
2.0	Findings at Trial Nursery Inspection	
2.1	The Trial Nursery Layout is inspected.	Noted
	Most of the seedlings for the sub-areas A1, A2, B1 and B2 are planted by the contractor. <b>[Photo No. 01-04]</b>	
2.2	Grass cutting has been carried out recently and some areas are exposed. The grass coverage within the Sub-Areas A1, A2, B1 and B2 are between 80% to 90% of the surface area, and less than the requirement (i.e. 90% minimum) as stipulated in GS Clause 3.70. The contractor is requested to further improve the grass coverage. In an attempt to further improve the grass coverage, GVL / HKL shall concentrate watering and promote stoloniferous growth of the grass at and around the bare spots which are observed sporadically within the Trial Nursery.	GVL / HKL
3.0	Observation on Plants and Planting	
3.1	<ul> <li>After inspecting the plant seedlings – exotic trees and shrubs in all sub-areas, a total of <u>1,046 seedlings</u> shall require replacement due to one of the following reasons: <ul> <li>Seedling is dead/in poor health condition/of wrong species; [Photo No. 05-12]</li> <li>Not yet planted (empty planting pit found);</li> <li>Swapped locations between two species (refer to note 3.2 below) and the seedling is in poor condition</li> </ul> </li> <li>Refer to Appendix B for details.</li> </ul>	HKL
3.2	During the inspection it is found that the planting locations of all S9 seedlings ( <i>Stachytarpheta jamaicensis</i> ) and S11 seedlings ( <i>Vitex negundo</i> ) have swapped.	Noted

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Project Contract No. EP/SP/10/91 South East New.Territories Landfill Extension (SENTX) Trial Nursery	Job No. GVL16
<ul> <li>URB trusted the soft landscape contractor did not intentional but it's out of identification error, although URB considered sinot acceptable given the contractor should have clearly ident before delivery and planting. Under normal circumstances, the requested to correctly replant the two species to designate.</li> <li>However, with considerations of following reasons, URB considerations of the key elements to be studied and monitored planting plans, the designated locations for all the sh randomly allocated by groups. Therefore, swapping the planting locations is not considered to have fundament the trial nursery;</li> <li>Some if not all of these two species are found healthy condition. They are able to provide useful monitoring and develop at the trial nursery. These individuals are group as other species which are planted at the same the data will be comparable to each other's.</li> <li>If all these swapped species are then to be replaced, their growth at the trial nursery at different times. The from these species would be more difficult to comparable to each other's.</li> <li>The successful rate of replanting all of the affected se and replanting/replacement planting is risky under converted and replanting/replacement.</li> </ul>	uch mistake being iffied the plants e contractor should ed locations. <i>i</i> idered it is more e trial nursery is not d. In original rub species were wo shrub species' ental influence to y and in acceptable g data as they grow e in the same age e time and hence they would start e data obtained re with others; eedlings is uncertain urrent harsh

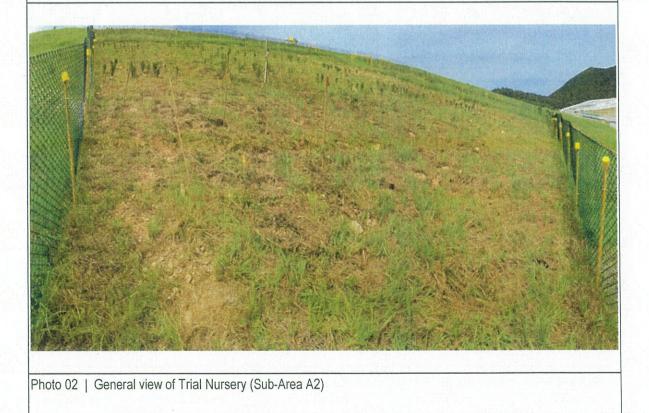
Prepared by:

reacht an Anny Li / Freddy Wan

Approved by:

David Morkel

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Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery Job No.: GVL16 Inspection Date: 22, 24 June 2020 APPENDIX A Report No. 3 Photo 03 | General view of Trial Nursery (Sub-Area B1)

Photo 04 | General view of Trial Nursery (Sub-Area B2)



Report No. 3

Con\* South East New Territories Landfill Extensio Job No.: GVL16 Inspection Date



Photo 09 | S8 seedlings (*Rhodomyrtus tomentosa* 桃 金娘) in poor condition to be replaced.



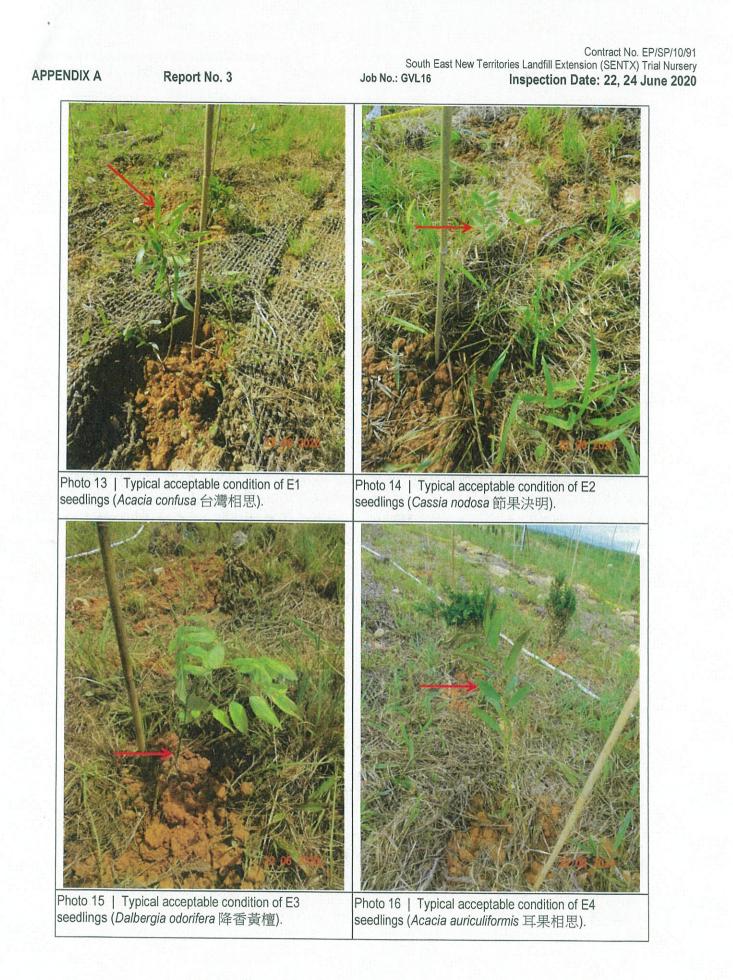
Photo 10 | S9 seedlings (*Stachytarpheta jamaicensis* 假馬鞭) in poor condition to be replaced.



Photo 11 | S10 seedlings (*Lespedeza formosa* 美麗 胡枝子) in poor condition to be replaced.



Photo 12 | S12 seedlings (*Vitex rotundifolia* 單葉蔓 荊) in poor condition to be replaced.





Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery GVL16 Inspection Date: 22, 24 June 2020 APPENDIX A Report No. 3 Job No.: GVL16 Photo 22 | Typical acceptable condition of S4 Photo 21 | Typical acceptable condition of S3 seedlings (Hamelia patens 希美利). seedlings (Ipomoea pes-caprae 海灘牽牛).

Photo 23 | Typical acceptable condition of S5 seedlings (*Rhododendron simsii* 紅杜鵑).

Photo 24 | Typical acceptable condition of S6 seedlings (*Pittosporum tobira* 海桐).

Report No. 3

seedlings (Stachytarpheta jamaicensis 假馬鞭).

Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery Job No.: GVL16 Inspection Date: 22, 24 June 2020

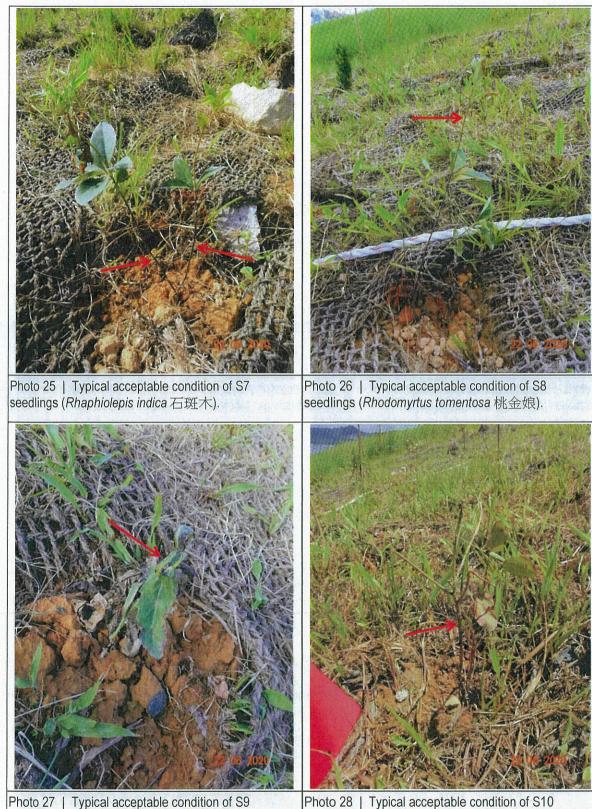
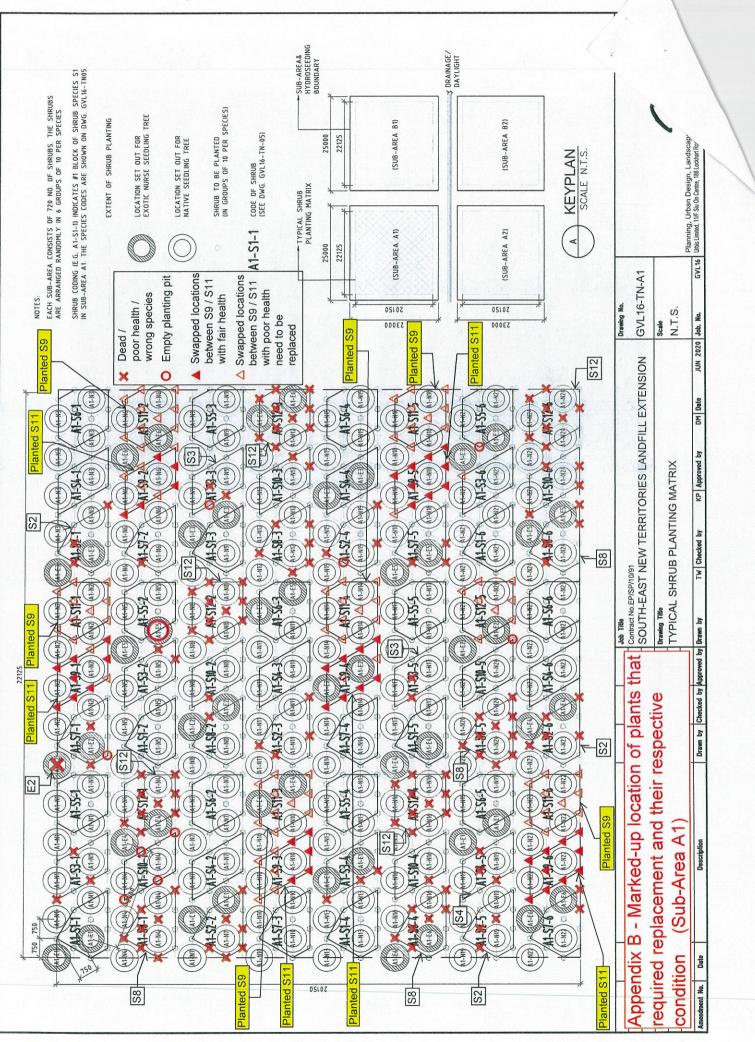
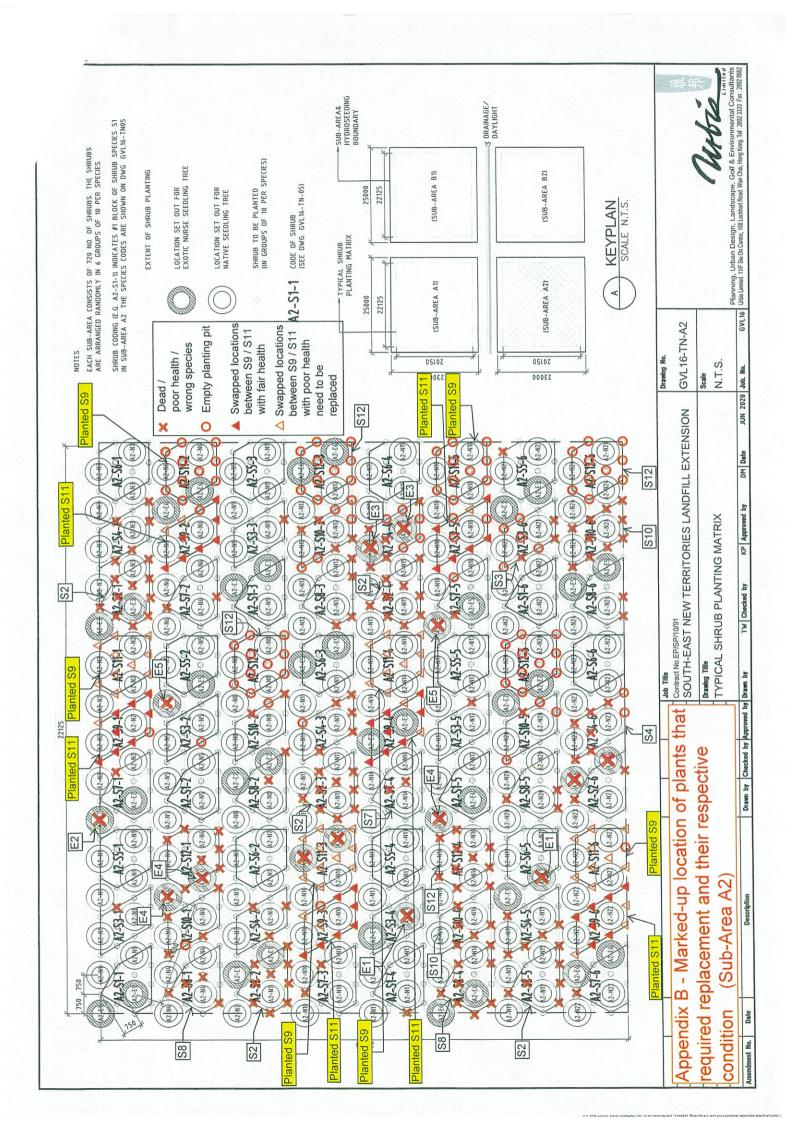
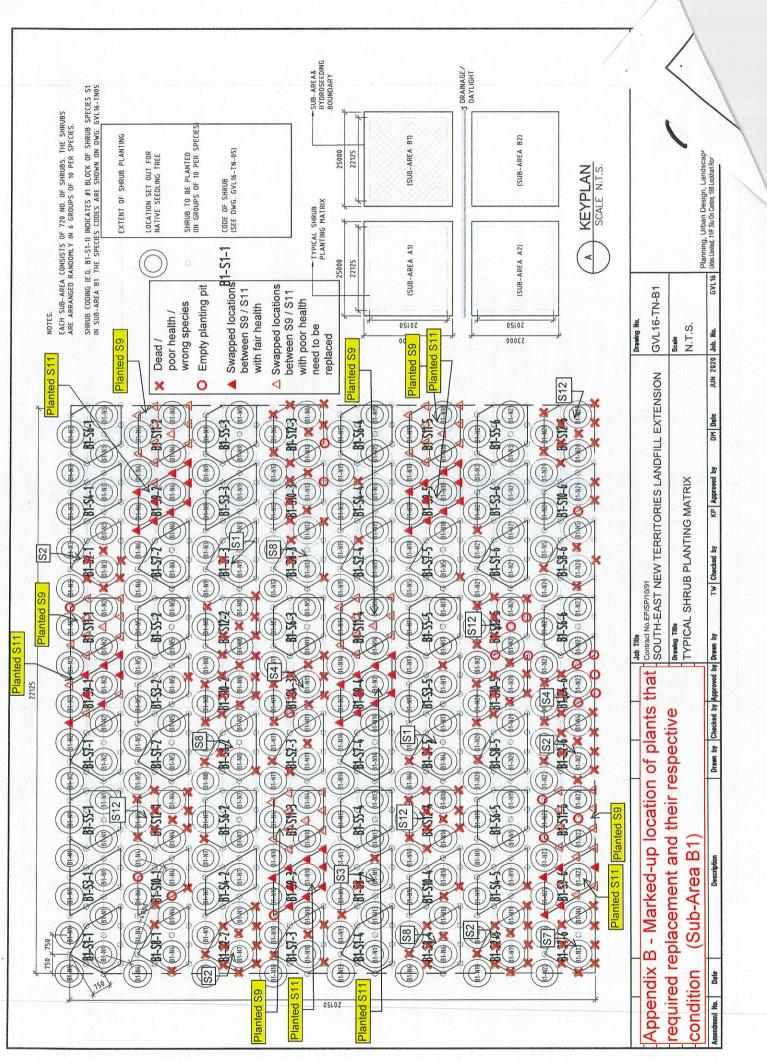


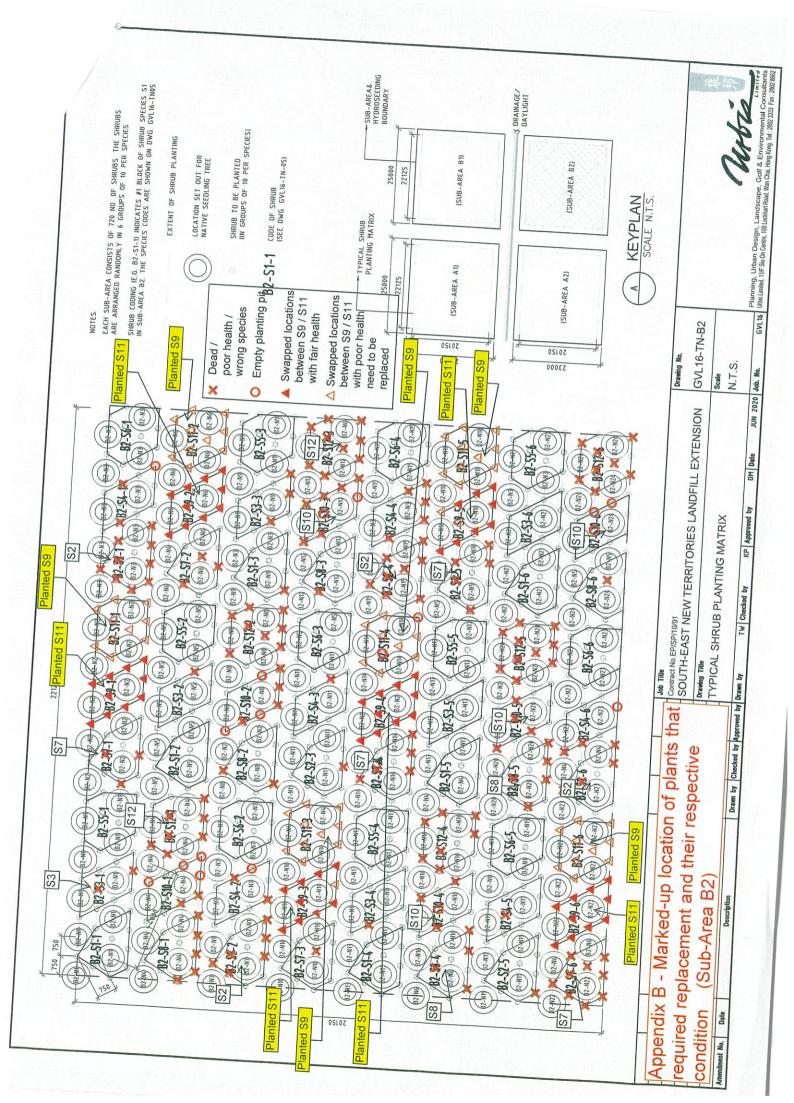
Photo 28 | Typical acceptable condition of S10 seedlings (Lespedeza formosa 美麗胡枝子).











# Appendix B

LEGEND × Dead / Poor health / Wrong species

ş

- $\clubsuit$  Swapped locations between S9 / S11 with fair health  $\bigtriangleup$  Swapped locations between S9 / S11 with poor health, need to be replaced swapped locations between S9 / S11 with poor health, need to be replaced
- E Exotic Trees

  - Shrubs

Þ		58 61
Sub-area B2 O ▲		3 2 13 57 18 57 298 57
×		1 29 26 13 13 14 49 162
		9 6 29 02
Sub-area B1	D	6 5 2 3 3 1 5 5 3 3 10 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 5 5 5
	×	33 16 16 13 13 13 13 13 175
-	4	39
ch.area A2		6 8 8 21 10 6 43 92 356 356
	× ~	1 2 4 5 6 6 6 6 2 9 1 1 1 2 7 2 3 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
-	Ø	1 15 60 84 8 15 60
	Sub-area A1 O ▲	5 45 10 45
	Sub-	1 24 12 33 8 8 1 138 1 138 1 138 1 138 1 1
	×	王 total
Exotic Trees Shrubs	Species	<ul> <li>E1 Acacia confusa 台灣相思</li> <li>E2 Cassia nodosa 密標</li> <li>E3 pterocarpus indicus 解積</li> <li>E4 Acacia auriculiformis 塔橋</li> <li>E5 Melia azedarach 強力</li> <li>E6 Senna siamea 強為</li> <li>S1 Buxus sinica amea akh</li> <li>S2 Calliandra haematocephal紅城球</li> <li>S3 Hamelia patens 新術</li> <li>S5 Rhododendron simsii 油荷</li> <li>S6 Pittosporum tobira futbam</li> <li>S6 Rhododendron simsii 油荷</li> <li>S6 Rhododendron simsii ahh</li> <li>S1 Stachytarpheta jamaicensi 根筋</li> <li>S1 Syticx rotundifolia</li> <li>S12 Vitex rotundifolia</li> <li>Sub-ti</li> </ul>

Cloudy

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Project Contract No. EP/SP/10/91 South East New Territories L Trial Nursery	andfill Extension (S	SENTX)	Job No. GVL16
Date : 12, 14 August 2020	Report No: 4	Present : GVL : Mr. Sam Chan	
Photos Taken : Yes	Weather:		reddy Wan

URBIS : Ms. Anny Li, Mr. Freddy Wan

Item	Notes	Action
1.0	General	
1.1	This report records the conditions of the planted seedlings at the Trial Nursery.	Noted
	This is a follow-up inspection to check the conditions of replacement planting after part of their initial planting in June 2020 were rejected due to very poor condition or not planted.	
	Supplement information is provided in Appendices:	
	<ul> <li>Appendix A – Photo record;</li> <li>Appendix B – Detail breakdown of planting statistics by locations and species</li> </ul>	
	<ul> <li>Appendix C – Marked-up location of plants that required replacement and their respective condition</li> </ul>	
	<ul> <li>Appendix D – Marked-up location of noxious weeds, overgrown plants and pests to be cleared</li> </ul>	
1.2	The soft Landscape Contractor is Hong Kong Landscaping Company Limited (hereafter referred to as HKL)	Noted
1.3	The Trial Nursery Layout is inspected.	Noted
	Most of the seedlings for the sub-areas A1, A2, B1 and B2 have been planted by the contractor. <b>[Photo No. 01-05]</b>	
	Refer to detail breakdown of planting statistics by locations and species in Appendix B and Items 2.0, 3.0, 4.0 and 5.0 below for summarised details of each sub-areas.	
1.4	The grass coverage within the Sub-Areas A1, A2, B1 and B2 are generally above 90% of the surface area, and the requirement (i.e. 90% minimum) as stipulated in GS Clause 3.70 is met. <b>[Photo No. 01-05]</b>	Noted
1.5	Self-seeded vines <i>Pueraria</i> sp. (葛屬) are found growing vigorously and colonising quickly outside but close to the top of the Sub-Area B1 of Trial Nursery. <b>[Photo No. 06-07]</b>	GVL / HKL
	As the species may adversely affect the plants within the Trial Nursery in long-term, the contractor is required to remove the <i>Pueraria</i> sp. (葛屬).	



roject	t No. EP/SP/10/91						Job No.	
	ast New Territories Landfill Extens	ion (SE	NTX)				GVL16	
1.6	The entrance gates of the Sub-A partially collapsed. <b>[Photo No.</b>		1, A2, B1	and B2	of the Tr	ial Nurs	ery are	GVL / HKL
	The contractor is required to ins	stall the	e entranco	e gates	properly.			
1.7	In Sub-Area A1, the issues of no found to be insignificant.	oxious v	veeds, ov	ergrowi	n plants a	and pes	ts are	Noted
1.8	In Sub-Areas A2, B1 and B2, diff overgrown plants and pests are		•	f severit	y of nox	ious we	eds,	GVL / HKI
	Refer to the marked-up location in Appendix D.	ns of no	oxious we	eds, ov	ergrown	plants a	nd pests	
	The contractor shall carry out w noxious weeds and pests in Sub	-			the follow	wing ob	served	
	<ul> <li>Leucaena leucocephala. (銀</li> <li>Mikania micrantha (薇甘菊</li> <li>Ipomoea nil (牽牛); [Photo</li> <li>Nests of Red Imported Fire</li> </ul>	); [Pho No. 14	to No. 1:  ]	L-13]		.5-16]		
2.0	Observations on Plants and P Sub-Area A1	lanting	,					
2.1	The conditions of the planted seedlings in Sub-Area		s are insp	pected a	and sumr	narised	below:	Noted
	Tranced seedings in Sub-Area	Exotic		-				
		trees		Shrubs		Total		
	Total	48	(100%)	720	(100%)	768	(100%)	Real Production
	Acceptable a) Completed planting in fair state/deciduous specimen to be under monitoring Rejected	48	(100%)	698	(97%)	746	(97%)	
	<ul> <li>b) Very poor/dead seedlings</li> <li>to be replaced</li> <li>c) Not found (incl. wrong</li> </ul>	0	(0%)	22	(3%)	22	(3%)	
	species)	0	(0%)	0	(0%)	0	(0%)	
2.2	22 out of 768 nos. of the plante condition	ed seed	lings are	rejectec	due to	very poo	or	GVL / HK
	The contractor shall replace the	e rejecte	ed plants	within o	one mon	th.		

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roject	t No. EP/SP/10/91						Job No.	
	ast New Territories Landfill Extens	ion (SE	NTX)				GVL16	
2.3	The planting locations of all S9 seedlings ( <i>Vitex negundo</i> ) have		-	ytarphe	ta jamaio	ensis) a	nd S11	Noted
	As mentioned in Record of Site of these two species does not h and therefore it is deemed acce	ave fur	ndamenta					
2.4	As the majority of the required of Sub-Area A1 of the Trial Nurs the contractor shall complete re	sery is o	considere	d subst	antially c	omplete		Noted
3.0	Observations on Plants and P Sub-Area A2	lanting				1994	Millio Vita de Vita I	
3.1	The conditions of the planted se	eedling	s are insp	pected a	and sumr	narised	below:	Noted
	Planted seedlings in Sub-Area A	2						
		Exotic		ch. I		<b>T</b>		
	Total	trees 48	(100%)	Shrubs 720	(100%)	Total 768	(100%)	
	Acceptable a) Completed planting in fair state/deciduous specimen to be under monitoring	45	(94%)	634	(88%)	679	(88%)	
	Rejected b) Very poor/dead seedlings							
	to be replaced c) Not found (incl. wrong	3	(6%)	57	(8%)	60	(8%)	
	species)	0	(0%)	29	(4%)	29	(4%)	
3.2	89 out of 768 nos. of the plante very poor condition or not plan		lings in S	ub-Area	a A2 are i	ejected	due to	GVL / HK
	The contractor shall replace or	replant	the rejec	ted pla	nts withir	n one m	onth.	
	Refer to Appendix C for the Ma replacement and their respectiv			n of pla	nts that r	equired		
3.3	The planting locations of all S9 seedlings ( <i>Vitex negundo</i> ) have		-	nytarphe	eta jamai	censis) a	ind S11	Noted
	As mentioned in Record of Site of these two species does not h and therefore it is deemed acce	nave fur	ndament					
3.4	The planting locations of a grou 10 nos. S10 seedlings ( <i>Lespedez</i>					elia pate	ens) and	Noted



roject ontrac	t No. EP/SP/10/91					Job No.	
outh E rial Nu	ast New Territories Landfill Extens rsery	ion (SEN	NTX)			GVL16	
	URB considered the swapping c influence to the trial nursery and					ndamental	
3.5	4 nos. S8 seedlings ( <i>Rhodomyrtu</i> specified locations for S7 seedli					nted at	GVL / HKL
	As there is fundamental influence the contractor shall remove the species S7 seedlings ( <i>Rhaphiole</i> )	wrong	species a		-		
3.6	1 no. S6 seedling ( <i>Pittosporum t</i> location for S8 seedling ( <i>Rhodo</i>			• •	/ planted at sp	pecified	GVL / HKI
	As there is fundamental influent the contractor shall remove the species S8 seedling ( <i>Rhodomyrt</i>	wrong	species a		-		
3.7	As the majority of the required of Sub-Area A2 of the Trial Nurs the contractor shall complete re	sery is c	onsidere	d subst	antially comp	eted, and	Noted
4.0	Observations on Plants and P Sub-Area B1	lanting					
4.1	The conditions of the planted so Planted seedlings in Sub-Area B		s are insp	ected a	and summarise	ed below:	Noted
				Total			
		Shrubs					
	Total	Shrubs 720	(100%)	720	(100%)		
	Total Acceptable a) Completed planting in fair state/deciduous specimen to be under monitoring Rejected		(100%)	<b>720</b> 672	(100%)		
	Acceptable a) Completed planting in fair state/deciduous specimen to be under monitoring Rejected b) Very poor/dead seedlings to be replaced c) Not found (incl. wrong	720 672 32	(93%) (4%)	672 32	(93%) (4%)		
	Acceptable a) Completed planting in fair state/deciduous specimen to be under monitoring Rejected b) Very poor/dead seedlings to be replaced	<b>720</b> 672	(93%)	672	(93%)		
4.2	Acceptable a) Completed planting in fair state/deciduous specimen to be under monitoring Rejected b) Very poor/dead seedlings to be replaced c) Not found (incl. wrong	720 672 32 16 ed seedl	(93%) (4%) (2%)	672 32 16	(93%) (4%) (2%)	ed due to	GVL / HK
4.2	Acceptable a) Completed planting in fair state/deciduous specimen to be under monitoring Rejected b) Very poor/dead seedlings to be replaced c) Not found (incl. wrong species) 48 out of 720 nos. of the planter	720 672 32 16 ed seedl ted.	(93%) (4%) (2%) ings in S	672 32 16 ub-Area	(93%) (4%) (2%) a B1 are reject		GVL / HKI

¥.



Project							Job No.	
	et No. EP/SP/10/91 East New Territories Landfill Extens	ion (SE	NTX)				GVL16	
Trial Nu	rsery							
4.3	The planting locations of all S9 seedlings ( <i>Vitex negundo</i> ) have			/tarphet	ta jamaice	<i>nsis</i> ) an	d S11	Noted
	As mentioned in Record of Site of these two species does not h and therefore it is deemed acce	ave fun						
4.4	The planting locations of a grou and 10 nos. S10 seedlings ( <i>Lesp</i>	•				ea pes-ce	aprae)	Noted
	URB considered the swapping c influence to the trial nursery and						mental	
4.5	10 nos. S10 seedlings ( <i>Lespedez</i> specified locations for S4 seedli					inted at		GVL / HKL
	As there is fundamental influent the contractor shall remove the species S4 seedlings ( <i>Ipomoea p</i>	wrong	species a		•			
4.6	As the majority of the required of Sub-Area B1 of the Trial Nurs the contractor shall complete re	sery is c	onsidere	d substa	antially co	mpleted	-	Noted
5.0	Observations on Plants and P Sub-Area B2	lanting						
5.1	The conditions of the planted so Planted seedlings in Sub-Area B		s are insp	ected a	ind summ	arised b	elow:	Noted
	Thanked Seedings in Sub-Area E	Shrubs		Total	-			
	Total	720	(100%)	720	(100%)			
	Acceptable a) Completed planting in fair state/deciduous specimen to be under monitoring	673	(93%)	673	(93%)			
	Rejected b) Very poor/dead seedlings to be replaced	40	(6%)	40	(6%)			
	c) Not found (incl. wrong species)	7	(1%)	7	(1%)			
5.2	47 out of 720 nos. of the plante very poor condition or not plan		lings in S	ub-Area	a B2 are re	ejected o	due to	GVL / HKL
	The contractor shall replace or	replant	the rejec	ted plar	nts within	one mc	onth.	
								1



Project	L	ob No.	
	ast New Territories Landfill Extension (SENTX)	GVL16	
	replacement and their respective condition, and the contractor shall comp replacement planting within one month.	lete	
5.3	The planting locations of all S9 seedlings ( <i>Stachytarpheta jamaicensis</i> ) and seedlings ( <i>Vitex negundo</i> ) have swapped.	S11	Noted
	As mentioned in Record of Site Inspection No. 3, URB considered the swap of these two species does not have fundamental influence to the trial nurs and therefore it is deemed acceptable.		
5.4	As the majority of the required plants are in acceptable conditions, the pla of Sub-Area B2 of the Trial Nursery is considered substantially completed.	nting	Noted

Prepared by:

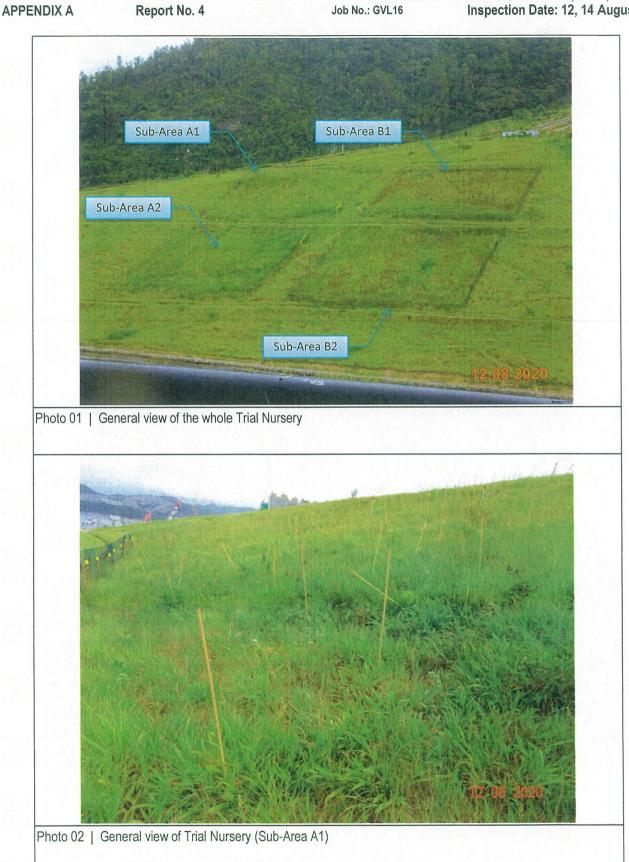
Anny Li / Freddy Wan 1am

Approved by:

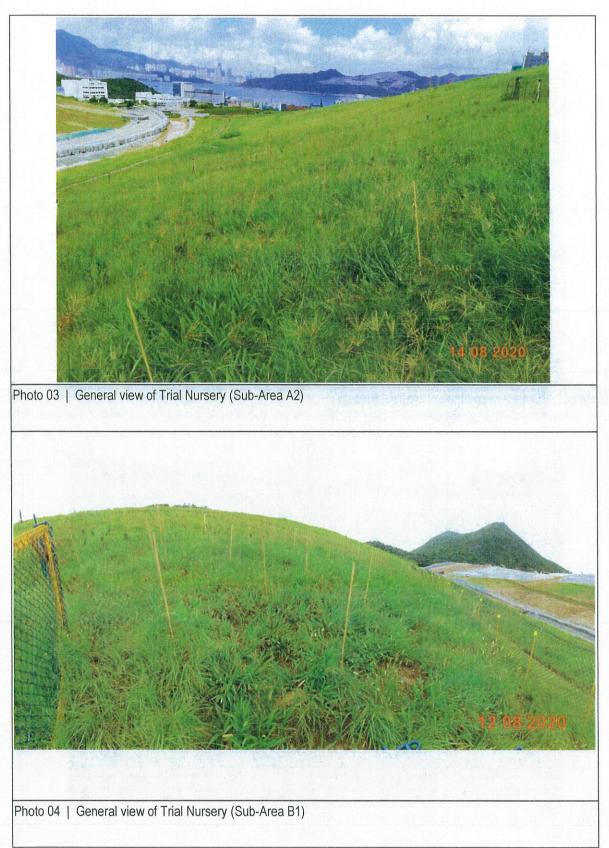
David Morkel

Page 6 of 6

Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery Job No.: GVL16 Inspection Date: 12, 14 August 2020

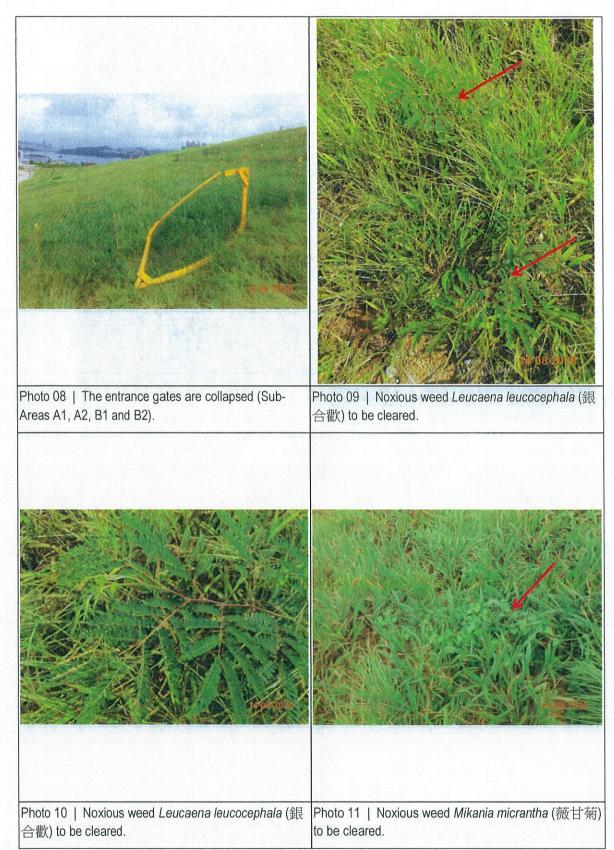


#### Report No. 4

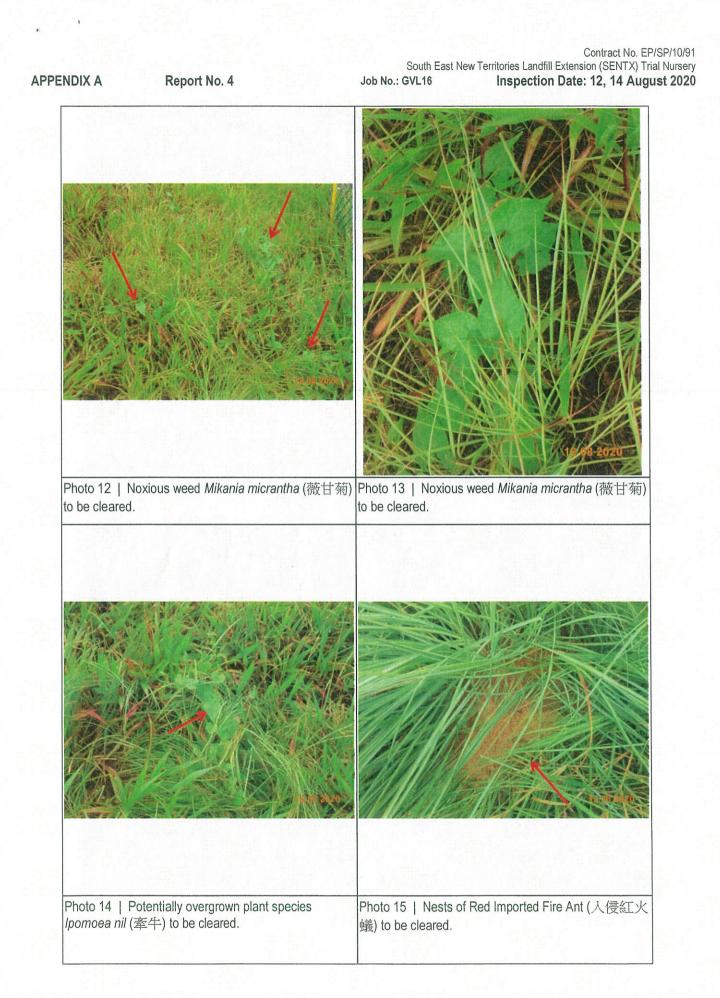


Report No. 4

Photo 05 | General view of Trial Nursery (Sub-Area B2) Photo 06 | Self-seeded vines Pueraria sp. growing Photo 07 | Self-seeded vines Pueraria sp. growing vigorously and colonising quickly near the Sub-Area B1 vigorously and colonising quickly near the Sub-Area B1 of Trial Nursery. of Trial Nursery. Page 3 of 10



Report No. 4



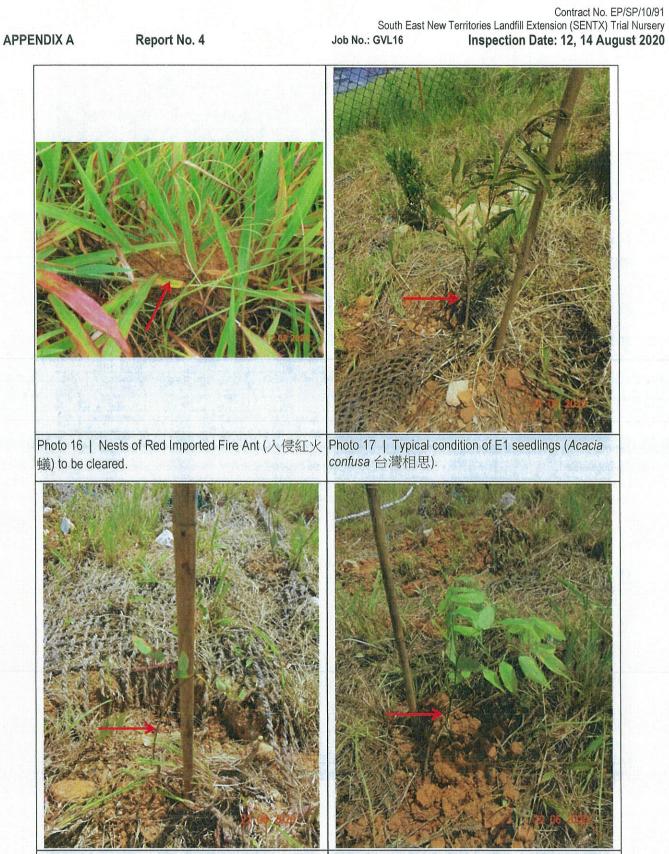


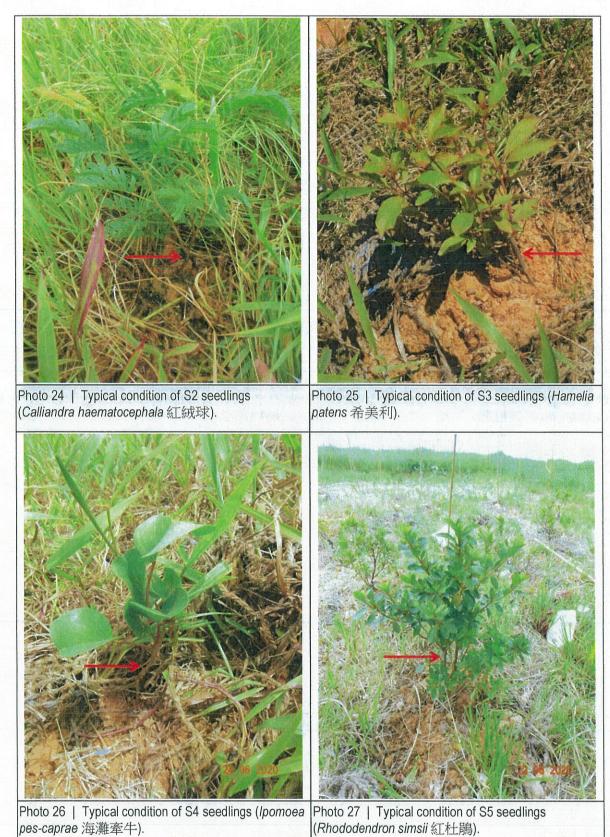
Photo 18 | Typical condition of E2 seedlings (*Cassia nodosa* 節果決明).

Photo 19 | Typical condition of E3 seedlings (*Dalbergia odorifera* 降香黃檀).

Report No. 4

Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery Job No.: GVL16 Inspection Date: 12, 14 August 2020









Appendix B - Detail breakdown of planting statistics by locations and species

	Exotic Trees	S	Shrubs		Total	
Acceptable						
a) Completed planting in						
fair state/deciduous	10	(100%)	608	170701	746	1%201
specimen to be under	9	IN DOT		lovich		lov ich
monitoring						
Rejected				_		
b) Very poor/dead	~	1/0/1	66	120/1	"	12021
seedlings to be replaced	þ	10/01	77	10/01	77	le/cl
c) Not found (incl. wrong	c	(%U)	C	(%0)	C	(%0)
species)	5	Invol	>	Invol	>	Intol
Total	48	(100%)	720	(100%)	768	(100%)

> Sub-Area A2 •

	TAXABLE INCOME.					
	Exotic Trees		Shrubs		Total	
Acceptable						
a) Completed planting in						
fair state/deciduous	75	(%/0/	63.0	(%88)	679	(%8%)
specimen to be under	f	Inst-Ch	1	Incont	2	laroot
monitoring						
Rejected						
b) Very poor/dead	~	16%)	57	12021	θŪ	(%8)
seedlings to be replaced	n	10/01	10	10/01	8	10/01
c) Not found (incl. wrong	c	(%)	90	(%)	90	(%7)
species)	>	10/01	3	Intel		lavel
Total	48	(100%)	720	(100%)	768	(100%)

				I
	- 0-	Ŭ		
	4	5		
1		20		
		Cub. Ar	Sub-Ar	Sub-Ar

a

	Shrubs		Total	
Acceptable				
a) Completed planting in				
fair state/deciduous	677	(%20)	672	1%201
specimen to be under	110	Interi	-	larent
monitoring				
Rejected				
b) Very poor/dead	37	(701)	37	1701
seedlings to be replaced	70	10/11	14	10/11
c) Not found (incl. wrong	16	(%)	16	17001
species)	24	10/-1		10/21
Total	720	(100%)	720	(100%)

Sub-Area B2

	Shrubs		Total	
Acceptable				
a) Completed planting in				
fair state/deciduous	673	10201	673	1/020/
specimen to be under	0.00	larce	20	lorer
monitoring				1.1
Rejected				
b) Very poor/dead	07	1/20/1	UV	17071
seedlings to be replaced	01	10/01	f	10/01
c) Not found (incl. wrong	٢	110/1	F	110/1
species)	,	(0/T)		10/T)
Total	720	(100%)	720	720 (100%)

(Sheet 1 of 2)

Appendix B - Detail breakdown of planting statistics by locations and species

	Species		Total	Sub	ib-area A1		Sub-	Sub-area A2		Sub	Sub-area B1		Sub	Sub-area B2			Total	
		Total			48			48			0			0			96	
Exot	Exotic Trees			>	×	0	>	×	0	>	×	0	>	×	0	>	×	0
EI	Acacia confusa	台灣相思	16	∞			8									16 (100%)	(%0) 0	(%0) 0
E2	Cassia nodosa	節果決明	16	80			9	2								14 (88%)	2 (13%)	(%0) 0
E	Dalbergia odorifera	降香黃檀	16	∞			7	1								15 (94%)	1 (6%)	(%0) 0
E4	Acacia auriculiformis	耳果相思	16	00			∞							-		16 (100%)	(%0) 0	(%0) 0
ES		<b>若棟</b>	16	∞			00									16 (100%)	0 (%0)	(%0) 0
E6	E6 Senna siamea	鐵刀木	16	00			00									16 (100%)	0 (0%)	0 (0%)
		Sub-total	96	48	0	0	45	m	0	0	0	0	0	0	0	<b>93</b> (97%)	3 (3%)	(%0) 0
				(100%)	(%0)	(%0)	(94%)	(%9)	(%0)	(%0)	(%0)	(%0)	(%0)	(%0)	(%0)			

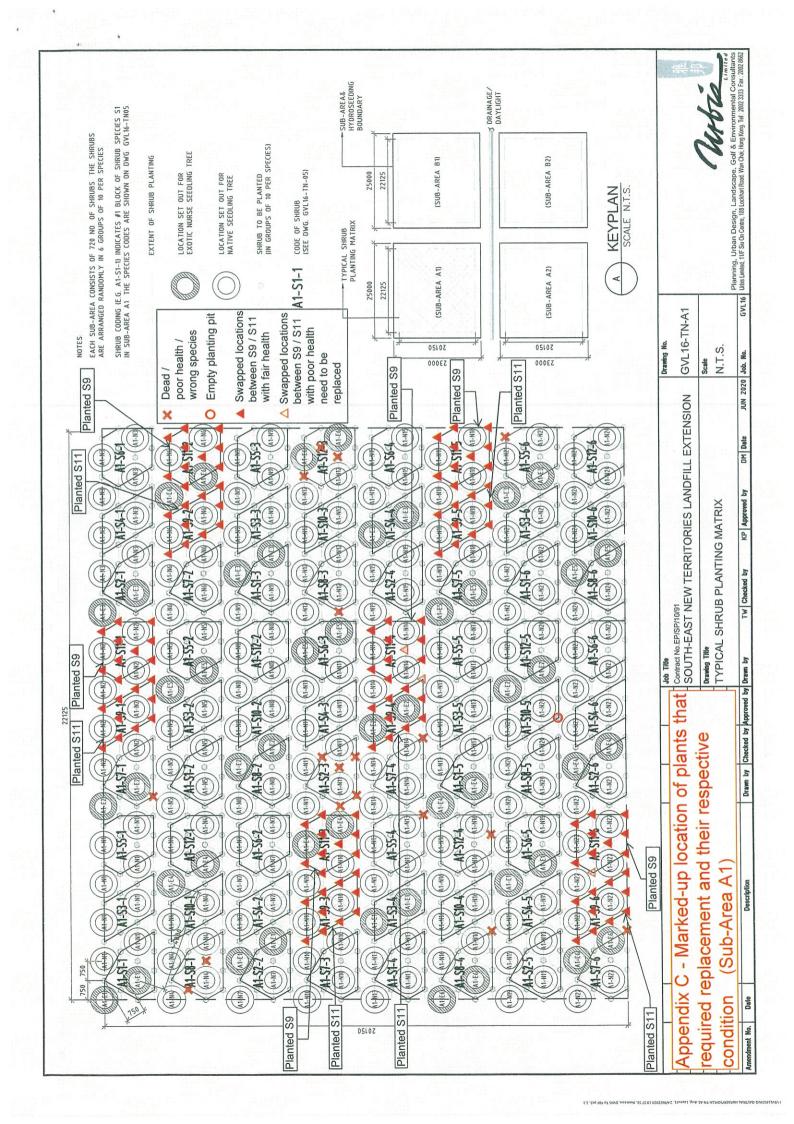
	Species		Total	Sub	Sub-area A1	-	Sub	Sub-area A2		Sub-	Sub-area B1		Sub	Sub-area B2			Total	
		Total			720			720			720			720			2880	
Shrubs	<u>I</u> S			>	×	0	>	×	0	>	×	0	>	×	0	>	×	0
E	S1 Buxus sinica	遺楊	240	60			54	9		60			59	1		233 (97%)	7 (3%)	(%0) 0
25	Calliandra haematocephala 紅絨球	工绒球	240	55	5		54	ŝ	m	60			58	1	1	227 (95%)	9 (4%)	4 (2%)
S3	Hamelia patens 希	希美利	240	60			52	∞		60			59	1		231 (96%)	9 (4%)	0 (%0)
S4	prae	海灘牽牛	240	60			58		2	49	1	10	58	1	1	225 (94%)	2 (1%)	13 (5%)
S5		紅杜鵑	240	58	2		40	20		57	m		40	20		195 (81%)	45 (19%)	(%0) 0
S6		海桐	240	60			60			60			60			240 (100%)	(%0) 0	(%0) 0
S7	Rhaphiolepis indica E	石斑木	240	57	З		49	9	5	53	7		57	ŝ		216 (90%)	19 (8%)	5 (2%)
S8	itosa	桃金娘	240	56	4		52	4	4	56	m	1	57	m		221 (92%)	14 (6%)	5 (2%)
S9	Stachytarpheta jamaicensis 假馬鞭	<b>灵馬鞭</b>	240	58	2		59	1		58	2		60			235 (98%)	5 (2%)	(%0) 0
110	S10 Lespedeza formosa 🎐	美麗胡枝子	240	59	1		52	9	2	57	1	2	52	4	4	220 (92%)	12 (5%)	8 (3%)
S11		黄荊	240	59	1		56	1	ŝ	55	2	m	60	1		230 (96%)	4 (2%)	6 (3%)
512	S12 Vitex rotundifolia 🛛	單葉蔓荊	240	56	4		48	2	10	47	13		53	9	1	204 (85%)	25 (10%)	11 (5%)
		Sub-total	2880	698	22	0	634	57	29	672	32	16	673	40	7	2677 (93%)	151 (5%)	52 (2%)
				(%/6)	(3%)	(%0)	(%88)	(%8)	(4%)	(%86)	(4%)	(2%)	(83%)	(%9)	(1%)			

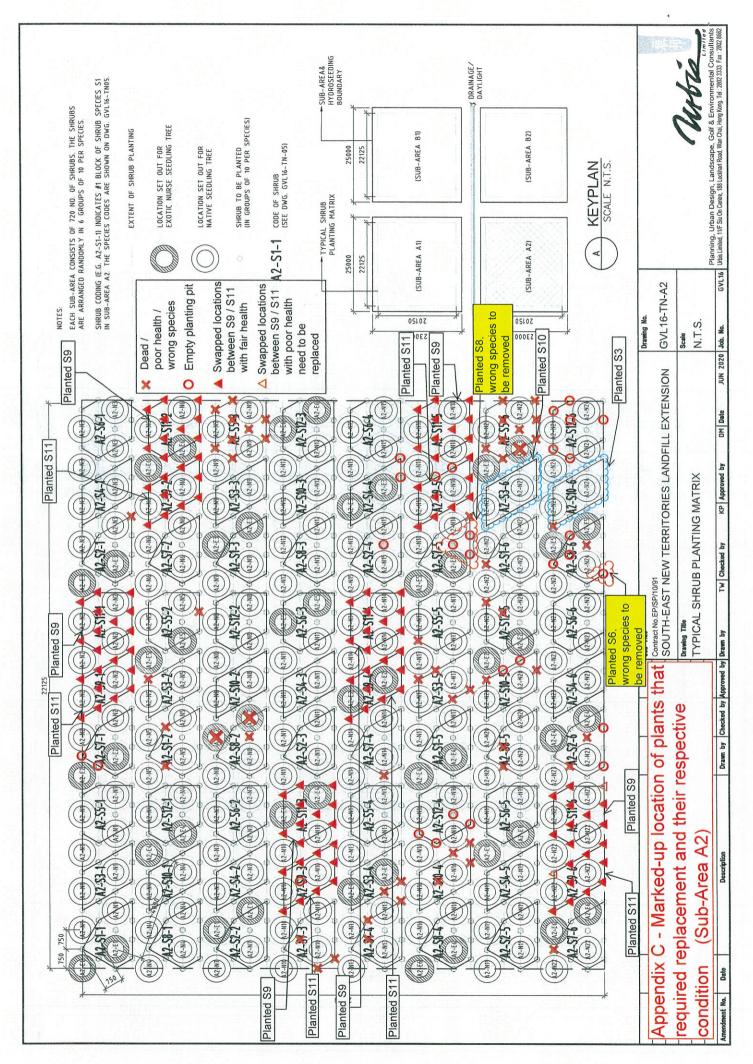
LEGEND

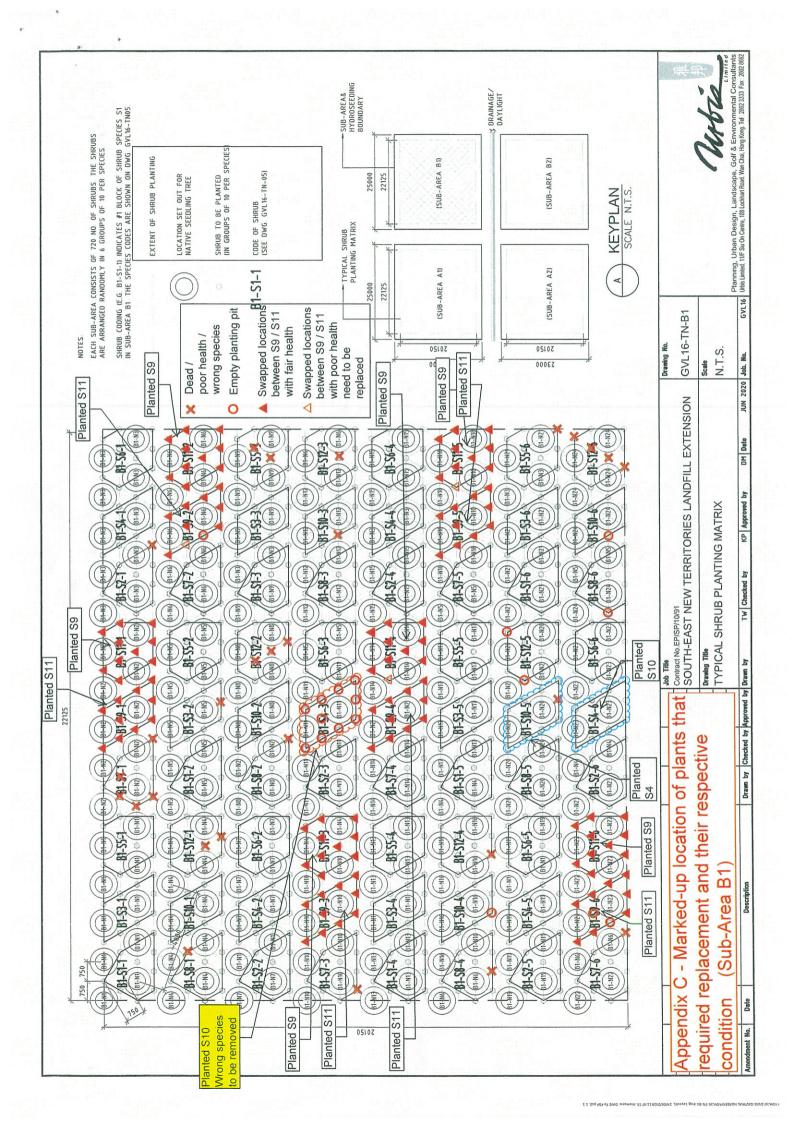
Acceptable

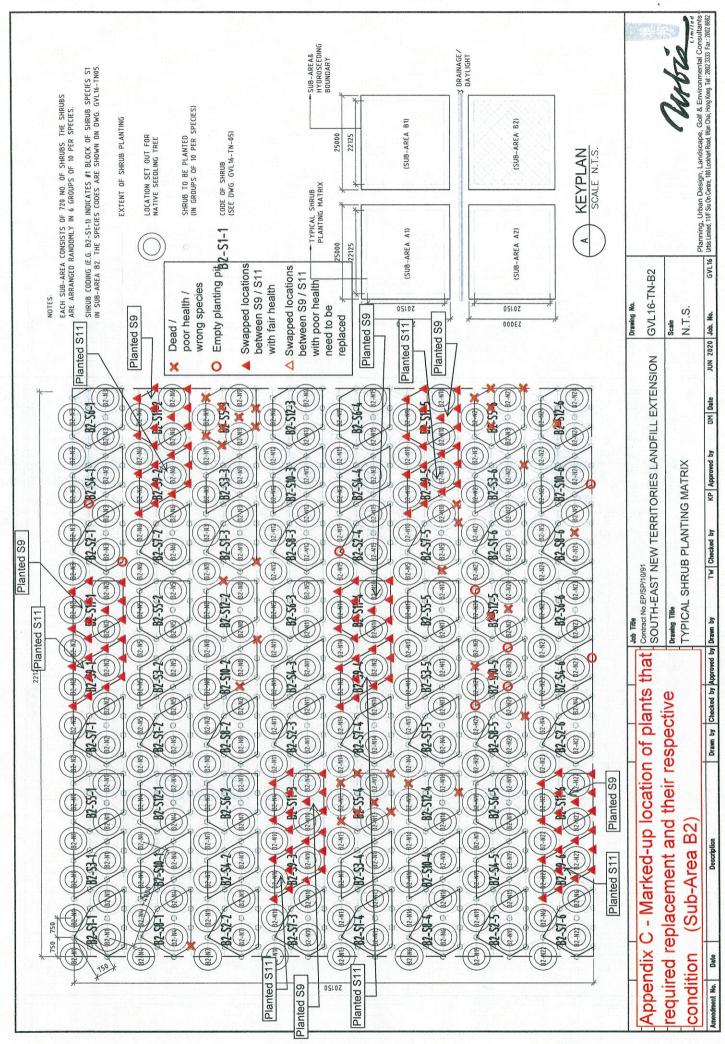
x Dead / Poor health / Wrong species
 O Empty planting pit

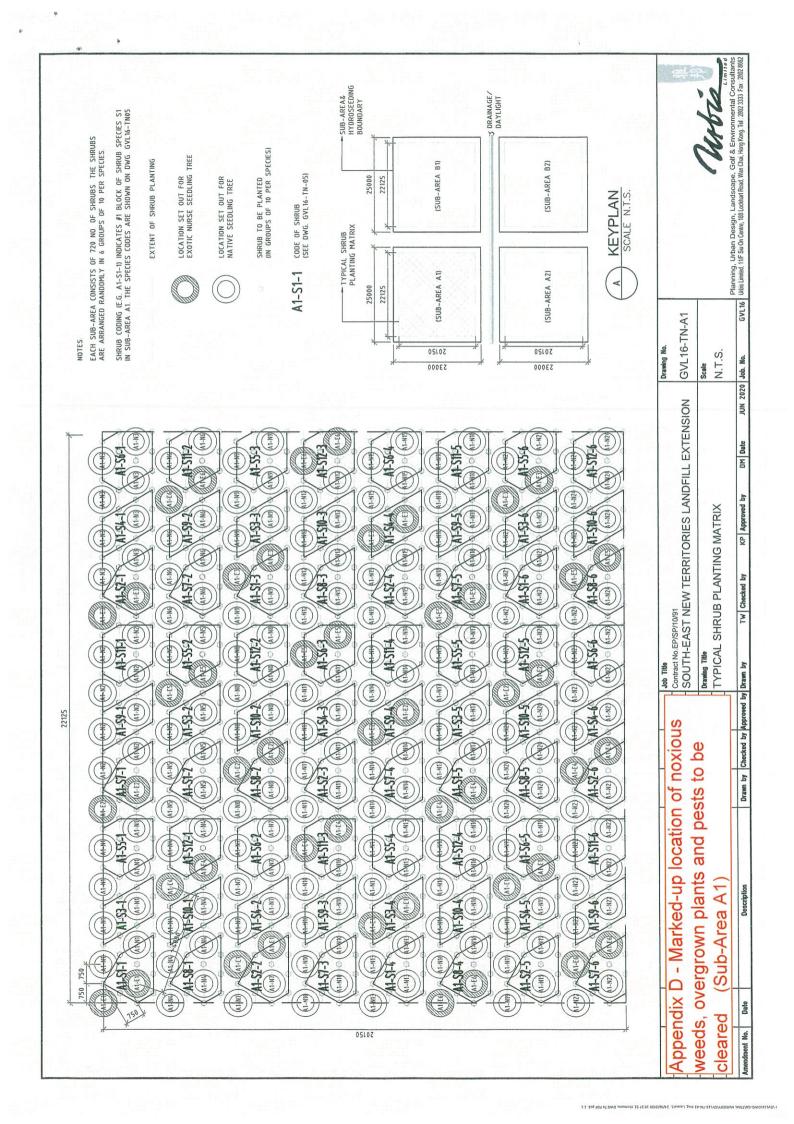
(Sheet 2 of 2)

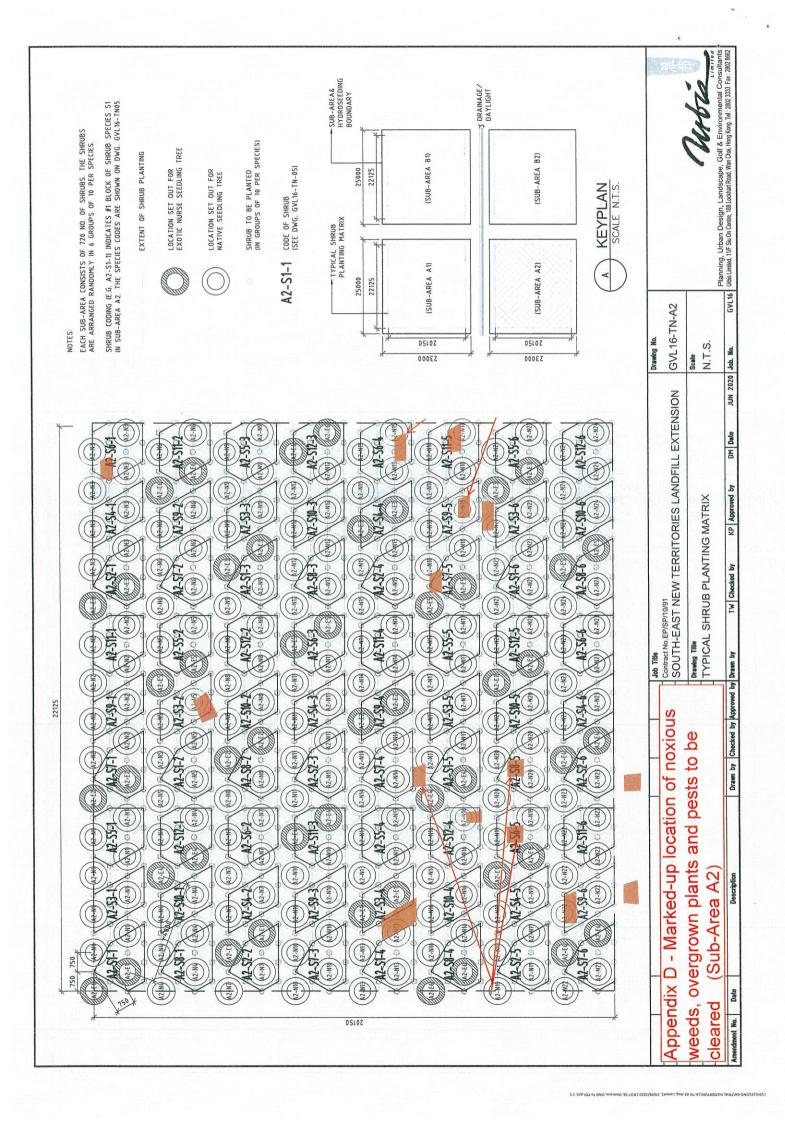


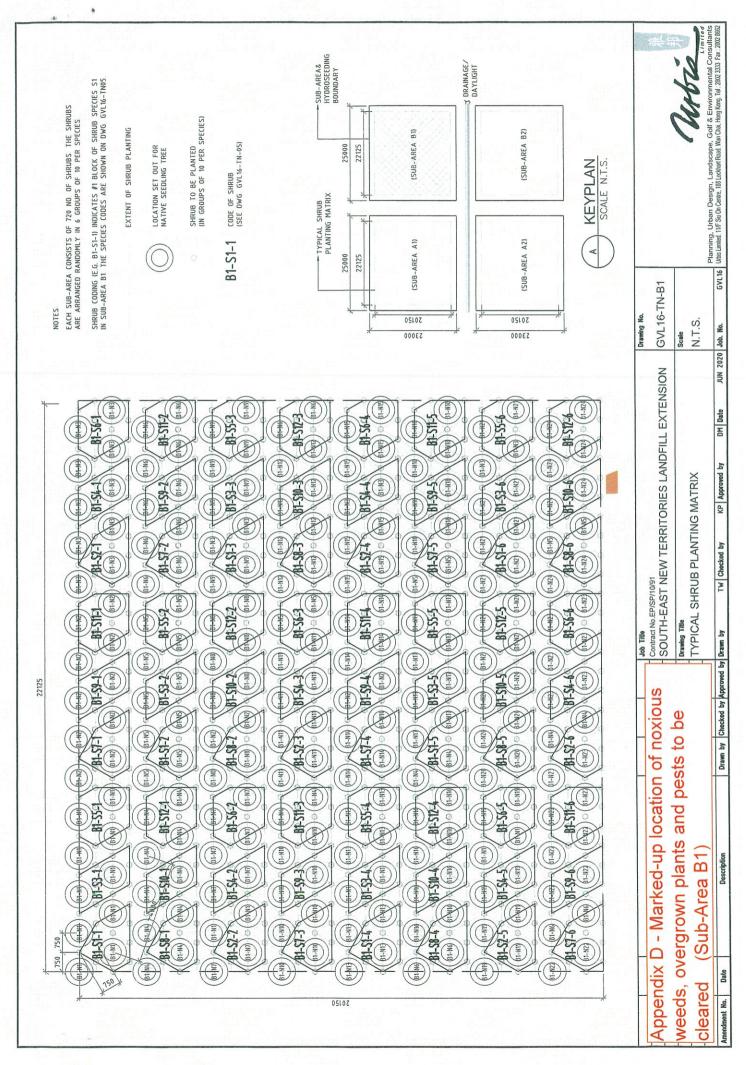


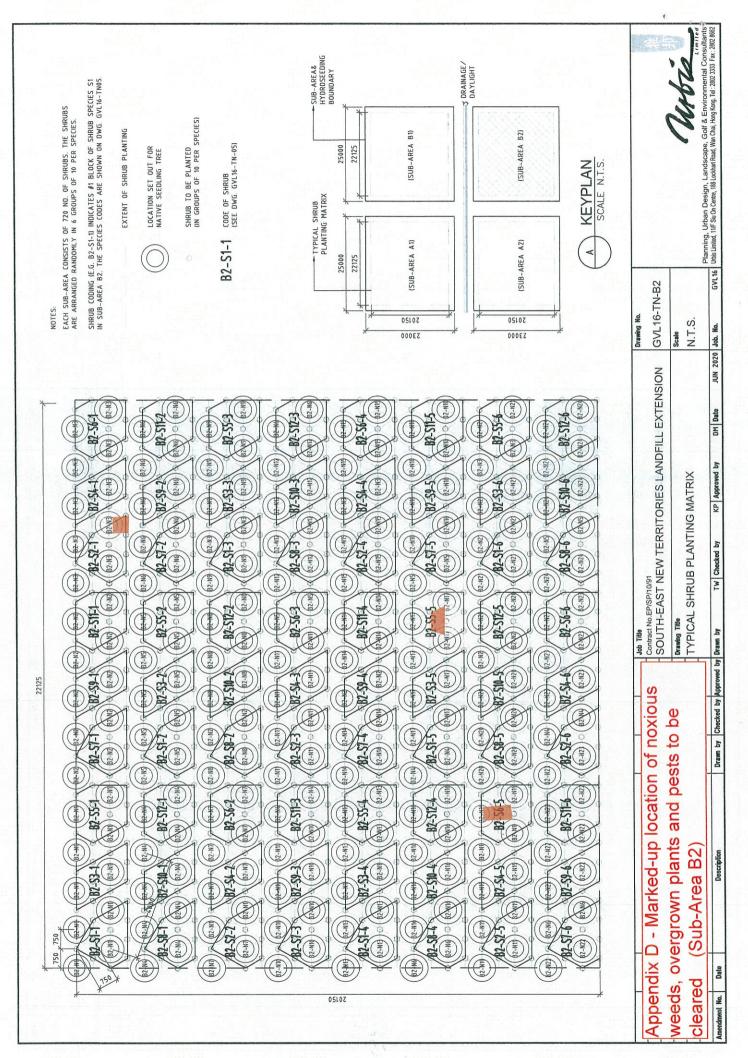












med: ,0E. TO: LI 0205/80/+2 , Livoye J gwb 58-HT-8LJVD/Y8328U

Cloudy

1



Project Contract No. EP/SP/10/91 South East New Territories Trial Nursery	Landfill Extension (SE	SNTX) Job No. GVL16
Date : 24, 28 September 2020	Report No: 5	Present : GVL : Mr. Sam Chan
Photos Taken : Yes	Weather:	URBIS : Ms. Anny Li, Mr. Kevin Sin, Mr. Freddy Wan

Item	Notes	Action
1.1	The following timeline briefly summarises the set-up and planting processes of the Trial Nursery:	Noted
	<ul> <li>From March to May 2020, the general layout of the Trial Nursery and hydroseeding was done by GVL;</li> <li>From June to August 2020, the planting of exotic nurse tree seedlings and shrub seedlings was done by the soft landscape contractor – Hong Kong Landscaping Company Limited (hereafter referred to as HKL);</li> <li>As of Record of Site Inspection No. 4 (dated 12, 14 August 2020), the planting of exotic nurse tree seedlings and shrub seedlings was considered satisfactory and substantially completed. The commencement of the establishment period for the planted seedlings of exotic nurse trees and shrubs followed;</li> <li>On 24<sup>th</sup> and 28<sup>th</sup> September 2020, the conditions of the planted seedlings and the general set-up of the Trial Nursery were inspected by URBIS. This report records the conditions of the planted seedlings and the general set-up of the Trial Nursery during the inspection. It also serves as the first monthly inspection report for the plants in the first month of establishment period.</li> </ul>	
	Note: The planting trial contains both exotic nurse species and native species. The establishment of native plants will be addressed in separate 'Monitoring Reports'. As per the agreed Monitoring Methodology for the Planting Trials, only exotic nurse species (and not the planted native species) will be subject of these Establishment Inspection reports. (Failing or failed exotic plants will be remediated or replaced, but failed native plants will not).	
1.2	HKL shall take note of the observed defects on planted seedlings and rectify them in due course. GVL is also requested to take appropriate actions in response to other irregularities found in the Trial Nursery.	Noted
	<ul> <li>Supplement information is provided in Appendices:</li> <li>Appendix A – Photo record;</li> <li>Appendix B – Detail breakdown of planting statistics by locations and species;</li> <li>Appendix C – Marked-up location of plants that required replacement</li> </ul>	GVL / HKL
	<ul> <li>and their respective condition;</li> <li>Appendix D – Marked-up location of noxious weeds, overgrown plants and pests to be cleared.</li> </ul>	



3	The conditions of the seedlings in Sub	-Area A	A1 are su	ummar	ised bel	ow:		GVL / Hł
	Planted seedlings in Sub-Area A1							
	Total		c trees		rubs 20		otal 68	
	Acceptable a) In fair conditions / seedlings to be monitored	41	(85%)	659	(92%)	700	(91%)	
	Rejected b) In very poor conditions / dead seedlings to be replaced c) Empty pits / seedlings not	1	(2%)	16	(2%)	17	(2%)	
	planted d) Seedlings of wrong species to	6	(13%)	43	(6%) (0%)	49 2	(6%) (0%)	
4	be replaced The contractor shall replace / complete one month, including: (i) 17 of the seedlings due to the (ii) 49 of the seedlings due to the (iii) 2 of the seedlings due to their Refer to Appendix C for the Marked-up replacement and their respective cond The conditions of the seedlings in Sub	very p ir non- wrong p locat ition.	oor con existenc species	ditions e on-s s. lants th	rejected / death ite; nat requ	d plant ; ired	0.2	GVL / HI
4	The contractor shall replace / complete one month, including: (i) 17 of the seedlings due to the (ii) 49 of the seedlings due to the (iii) 2 of the seedlings due to their Refer to Appendix C for the Marked-up	e the p very p ir non- wrong o locat ition.	lanting f oor con existenc species ion of pl	for the ditions te on-s s. lants th	rejected / death ite; nat requ	d plant ; ired	0.2	GVL / HI
4	The contractor shall replace / complete one month, including: (i) 17 of the seedlings due to the (ii) 49 of the seedlings due to the (iii) 2 of the seedlings due to their Refer to Appendix C for the Marked-up replacement and their respective cond The conditions of the seedlings in Sub	e the p very p ir non- wron <u>c</u> o locat ition. -Area <i>i</i>	lanting f oor con existenc species ion of pl	for the ditions ce on-s s. lants th ummar	rejected / death ite; nat requ	d plant ;; ired low:	0.2	GVL / H
4	The contractor shall replace / complete one month, including: (i) 17 of the seedlings due to the (ii) 49 of the seedlings due to the (iii) 2 of the seedlings due to their Refer to Appendix C for the Marked-up replacement and their respective cond The conditions of the seedlings in Sub	e the p very p ir non- wrong o locat ition. -Area /	lanting f oor con existence species ion of pl	for the ditions ce on-s s. lants th ummar	rejected / death ite; nat requ	d plant ; ired low:	s within	GVL / H
4	The contractor shall replace / complete one month, including: (i) 17 of the seedlings due to the (ii) 49 of the seedlings due to the (iii) 2 of the seedlings due to their Refer to Appendix C for the Marked-up replacement and their respective cond The conditions of the seedlings in Sub Planted seedlings in Sub-Area A2 Total Acceptable a) In fair conditions / seedlings to be monitored	e the p very p ir non- wrong o locat ition. -Area /	lanting to oor con existence species ion of pl A2 are su c trees	for the ditions ce on-s s. lants th ummar	rejected ; / death ite; nat requ rised bel <b>rubs</b>	d plant ; ired low:	ts within	GVL / H
4	The contractor shall replace / complete one month, including: (i) 17 of the seedlings due to the (ii) 49 of the seedlings due to the (iii) 2 of the seedlings due to their Refer to Appendix C for the Marked-up replacement and their respective cond The conditions of the seedlings in Sub Planted seedlings in Sub-Area A2 Total Acceptable a) In fair conditions / seedlings to be monitored Rejected b) In very poor conditions / dead seedlings to be replaced	e the p very p ir non- wrong o locat ition. -Area /	lanting f oor con existence species ion of pl A2 are su c trees 48	for the ditions ce on-s lants th ummar <b>Sh</b>	rejected ; / death ite; nat requ rised bel rubs 20	d plant ; ired low: 7	otal	GVL / H
4	The contractor shall replace / complete one month, including: (i) 17 of the seedlings due to the (ii) 49 of the seedlings due to the (iii) 2 of the seedlings due to their Refer to Appendix C for the Marked-up replacement and their respective cond The conditions of the seedlings in Sub Planted seedlings in Sub-Area A2 Total Acceptable a) In fair conditions / seedlings to be monitored Rejected b) In very poor conditions / dead	e the p very p ir non- wrong o locat ition. -Area / Exoti	lanting f oor con existence i species ion of pl A2 are su <u>c trees</u> 48 (98%)	for the ditions te on-s s. lants th ummar <b>Sh</b> 677	rejected ; / death ite; nat requ rised bel rubs 20 (94%)	d plant ; ired low: 724	<b>otal</b> 68 (94%)	GVL / H



outh E rial Nu	et No. EP/SP/10/91 East New Territories Landfill Extension (SENTX) Irsery				Job No. GVL16	
	Refer to Appendix C for the Marked-up location of p replacement and their respective condition.	lants th	at requi	red		
1.5	The conditions of the seedlings in Sub-Area B1 are sub-	ummari	sed belo	ow:		GVL / HKL
	Planted seedlings in Sub-Area B1					
		Shr	ubs	То	tal	
	Total	72	20	7	20	
	Acceptable					
	a) In fair conditions / seedlings to be monitored	664	(92%)	664	(92%)	
	Rejected					
	b) In very poor conditions / dead seedlings to be replaced	29	(4%)	29	(4%)	
	c) Empty pits / seedlings not planted	16	(2%)	16	(2%)	
	d) Seedlings of wrong species to be replaced	11	(2%)	11	(2%)	
		lants th	at requi	red		
1.6	Refer to Appendix C for the Marked-up location of p         replacement and their respective condition.         The conditions of the seedlings in Sub-Area B2 are s		sed bel	ow:		GVL / HKI
1.6	replacement and their respective condition. The conditions of the seedlings in Sub-Area B2 are s		sed bel	ow:		GVL / HKI
1.6	replacement and their respective condition.	ummari	sed bel		otal	GVL / HKI
1.6	replacement and their respective condition. The conditions of the seedlings in Sub-Area B2 are s	ummari Shr		Тс	otal 20	GVL / HKI
1.6	replacement and their respective condition. The conditions of the seedlings in Sub-Area B2 are s Planted seedlings in Sub-Area B2	ummari Shr	ubs	Тс		GVL / HKI
1.6	replacement and their respective condition. The conditions of the seedlings in Sub-Area B2 are s Planted seedlings in Sub-Area B2 Total	ummari Shr	ubs	Тс		GVL / HKI
1.6	replacement and their respective condition. The conditions of the seedlings in Sub-Area B2 are s Planted seedlings in Sub-Area B2 Total Acceptable a) In fair conditions / seedlings to be monitored Rejected	ummari Shr 7	ubs 20	<u>Тс</u> 7	20	GVL / HKI
1.6	replacement and their respective condition. The conditions of the seedlings in Sub-Area B2 are s Planted seedlings in Sub-Area B2 Total Acceptable a) In fair conditions / seedlings to be monitored	ummari Shr 7	ubs 20	<u>Тс</u> 7	20	GVL / HKI
1.6	replacement and their respective condition. The conditions of the seedlings in Sub-Area B2 are s Planted seedlings in Sub-Area B2 Total Acceptable a) In fair conditions / seedlings to be monitored Rejected b) In very poor conditions / dead seedlings to be	ummari Shr 72 697	ubs 20 (97%)	<b>7</b> 697	<b>20</b> (97%)	GVL / HKI
1.6	replacement and their respective condition. The conditions of the seedlings in Sub-Area B2 are s Planted seedlings in Sub-Area B2 Total Acceptable a) In fair conditions / seedlings to be monitored Rejected b) In very poor conditions / dead seedlings to be replaced	ummari <b>Shr</b> 697 8	ubs 20 (97%) (1%)	<b>7</b> 697 8	20 (97%) (1%)	GVL / HKI



	ct No. EP/SP/10/91	Job No. GVL16	
South E	East New Territories Landfill Extension (SENTX) ursery	GVLIU	
	(vi) 0 of the seedlings due to their wrong species.		
	Refer to Appendix C for the Marked-up location of plants that required replacement and their respective condition.		
1.7	In Sub-Areas A2 and B2, different degrees of severity of noxious weeds, overgrown plants and pests are observed.		GVL / HKI
	Refer to the marked-up locations of noxious weeds, overgrown plants ar in Appendix D.	nd pests	
	The contractor shall carry out weeding and removal of the observed nox weeds and pests:	ious	
	<ul> <li>Leucaena leucocephala. (銀合歡); [Photo No. 05-06]</li> <li>Mikania micrantha (薇甘菊); [Photo No. 07-12]</li> <li>Nests of Red Imported Fire Ant (入侵紅火蟻). [Photo No. 13-15]</li> </ul>		
	In Sub-Area A1 and Sub-Area B1, the issues of noxious weeds, overgrow and pests are found to be insignificant.	n plants	
1.8	The entrance gates of the Sub-Areas A1, A2, B1 and B2 of the Trial Nurse partially collapsed. <b>[Photo No. 16]</b>	ery are	GVL / HK
	The collapsed entrance gates shall be repaired.		
1.9	The planting locations of all S9 seedlings (Stachytarpheta jamaicensis 假) and S11 seedlings (Vitex negundo 黃荊) have swapped.	馬鞭)	Noted
	As mentioned in Record of Site Inspection No. 3, the swapping of these species was deemed acceptable. The updated mark-up drawings accompthis report are provided in Appendix C for convenience of perusal.		14
	Update as of Site Inpsection No. 5 (24, 28 September 2020): As revealed during this inspection as some of the seedlings were floweri shrub species S9 planted on-site was found to be Vitex rigida 顯脈馬鞭鸢 [Photo No. 17-18] Both Vitex rigida 顯脈馬鞭草 and Stachytarpheta jamaicensis 假馬鞭 are species and both belong to the same plant family Verbenaceae, they sha of similarities in ecological and botanical aspects. They also have similar requirements for growth and possibly a similar life cycle. Based on such	<sup>室</sup> . exotic are a lot	
	similarity, we suggest the planted Vitex rigida 顯脈馬鞭草 could be retain site for onward monitoring in Trial Nursery; but if Vitex rigida 顯脈馬鞭草 significantly fails later during the establishment period, the original spec Stachytarpheta jamaicensis 假馬鞭 shall be planted.	直	
			State Sugar



	No. EP/SP/10/91 ast New Territories Landfill Extension (SENTX) sery	
1.10	<ul> <li>Following changes of species locations are found and deemed unacceptable:</li> <li>In Sub-Area B1, a group of <i>Ipornoea pes-caprae</i> 海灘牽牛 (10 nos.) were planted at the locations for shrub species S10 (<i>Lespedeza formosa</i> 美麗胡枝子). The group of wrong species shall be replaced with correct species <i>Lespedeza formosa</i> 美麗胡枝子.</li> <li>In Sub-Area A1, 1 no. <i>Ipomoea pes-caprae</i> 海灘牽牛 has been wrongly planted at specified location for S10 seedlings (<i>Lespedeza formosa</i> 美麗胡枝子).</li> <li>In Sub-Area A1, A2 and B1, there are a few occasions where a species of <i>Salvia</i> sp. 鼠尾草屬 was planted in place of S9 seedlings. [Photo No. 19-2]</li> <li>The above species changes shall be rectified and the correct species shall be planted in accordance with the mark-up in Appendix C.</li> </ul>	支
1.11	It is noted weed mats were being installed by GVL for each seedlings in the Tria Nursery. As of this inspection, the installation was still in progress and only tho seedlings in Sub-Area A1 and part of Sub-Area B1 had weed mats installed. [Photo No. 21-22]	

Prepared by:

ned type Approved by: -7 Anny Li / Kevin Sin / Freddy Wan

David Morkel

Director

Certified Arborist / Horticulturist

APPENDIX A

### Report No. 5

Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery Job No.: GVL16 Inspection Date: 24, 28 September 2020

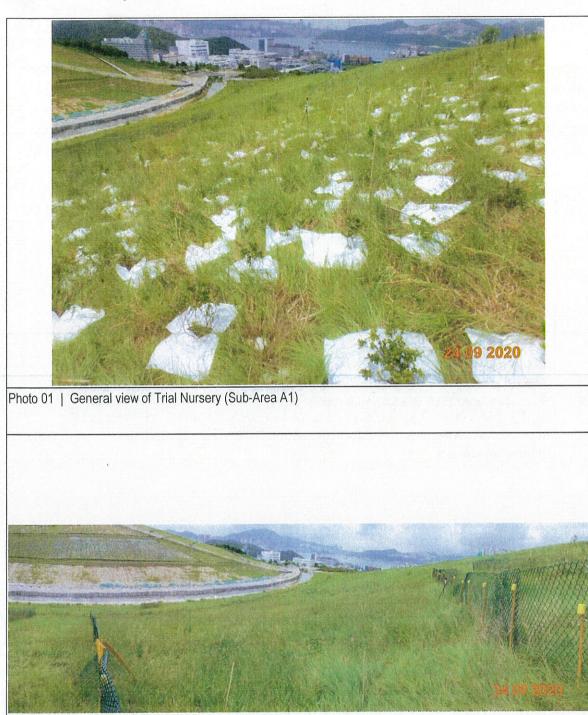
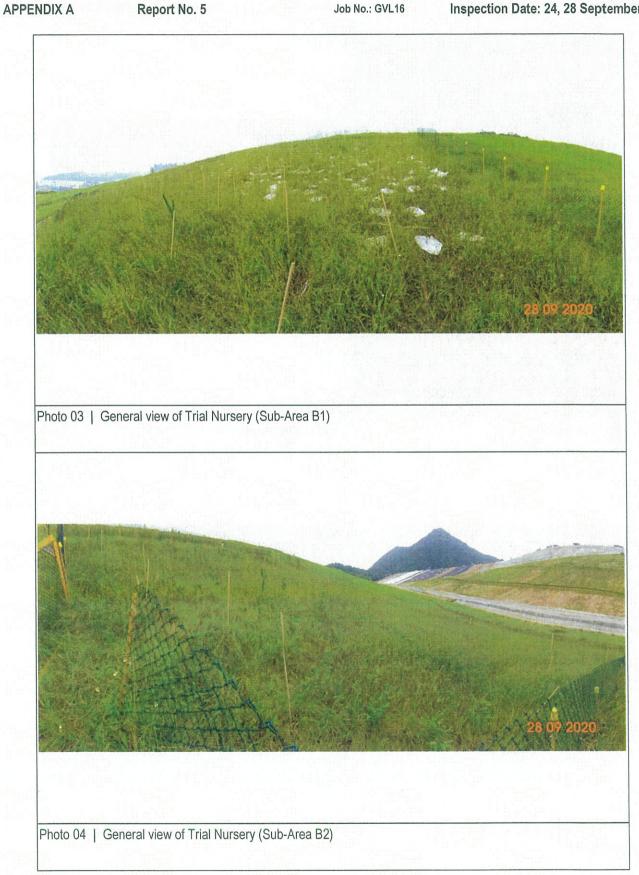
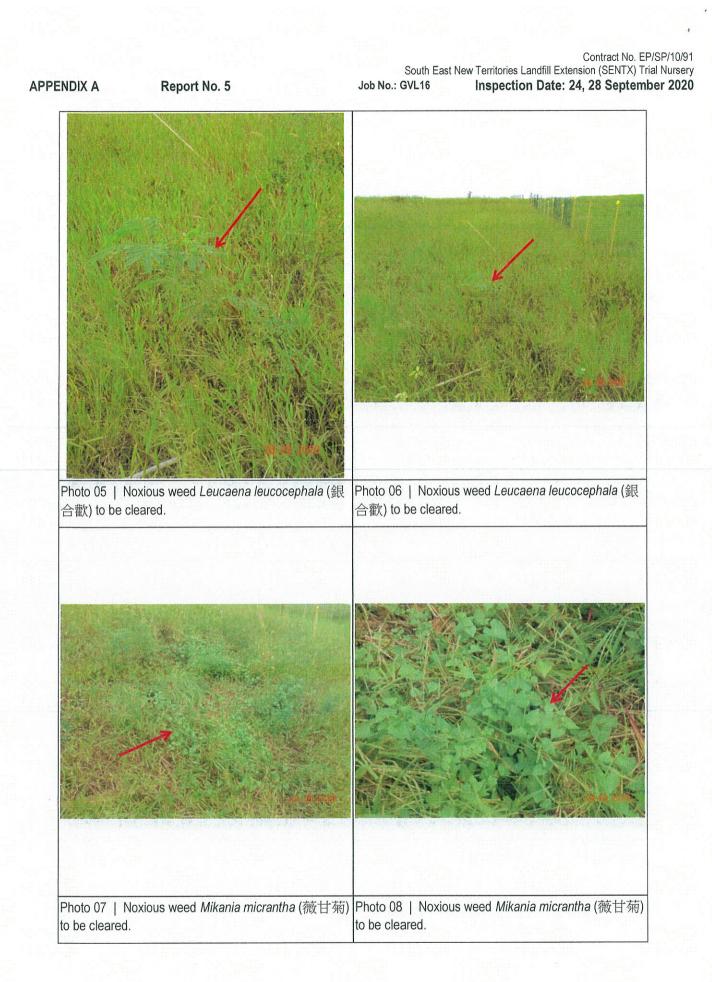


Photo 02 | General view of Trial Nursery (Sub-Area A2)

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#### Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery Job No.: GVL16 Inspection Date: 24, 28 September 2020

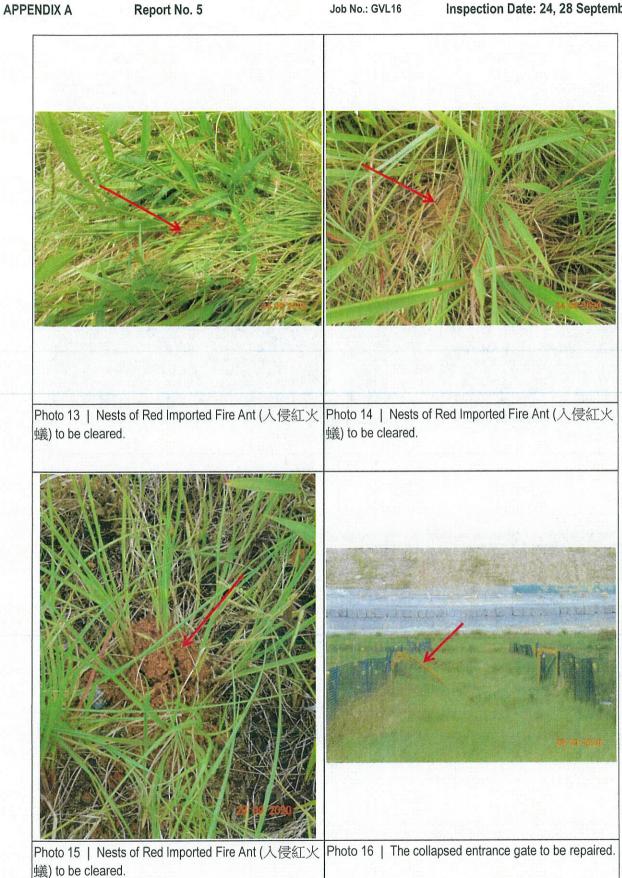




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Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery GVL16 Inspection Date: 24, 28 September 2020 APPENDIX A Report No. 5 Job No.: GVL16 1A 1 Photo 09 | Noxious weed Mikania micrantha (薇甘菊) Photo 10 | Noxious weed Mikania micrantha (薇甘菊) to be cleared. to be cleared. Photo 11 | Noxious weed Mikania micrantha (薇甘菊) Photo 12 | Noxious weed Mikania micrantha (薇甘菊) to be cleared. to be cleared.

Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery Job No.: GVL16 Inspection Date: 24, 28 September 2020



#### APPENDIX A

Report No. 5

Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery Job No.: GVL16 Inspection Date: 24, 28 September 2020



Photo 17 | *Vitex rigida* 顯脈馬鞭草 were planted in place of S9 seedlings.



Photo 18 | *Vitex rigida* 顯脈馬鞭草 were planted in place of S9 seedlings.



Photo 19 | *Salvia* sp. 鼠尾草屬 were planted in place of S9 seedlings. (rejected)



Photo 20 | *Salvia* sp. 鼠尾草屬 were planted in place of S9 seedlings. (rejected)

## Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery GVL16 Inspection Date: 24, 28 September 2020 Job No.: GVL16

# Report No. 5 Photo 22 | Weed mat installed around seedlings. Photo 21 | Weed mat installed around seedlings.

APPENDIX A

Appendix B - Detail breakdown of planting statistics by locations and species (updated on 24 & 28 Sep 2020)

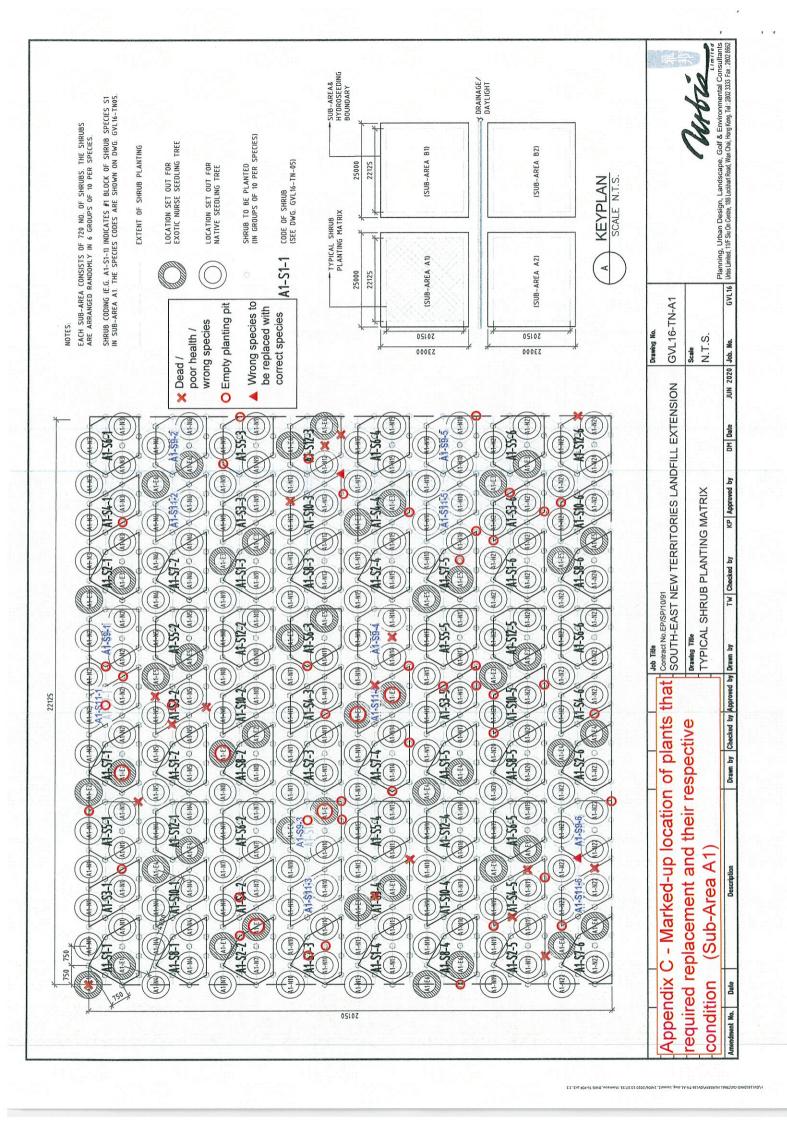
Species         Total         Ioran         Sub-stare AI         Total and a field         Tota and a field         <									C.L a	CV			Cub a	10 00			Sub-ar	Ca co	-			Total		
Intraction         Total $4$ 1000000000000000000000000000000000000	Species		lotal		-ans	area A1			P-ONC	THE AZ			P-nnc	TOPA			in-unc	70 DD	T					
Mic Trees         <		Total			48	~			48				0								5	90	8	
Accord confuso         画響測         11         7         1         2         1         2         1         1         2         1         2	Exotic Trees			>	×	0	4	>	×	0	•	>	×	0	•	>	×	0	4		>	×	0	◄
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Dateregia odorifera         深葉所能         16         7         1         8         1         1         16         100         0         16         16         100         16	E2 Cassia nodosa	節果決明	16		+	4		~	~											12			-	
Accrete outculformis         IFIRE IL         16         7         1         8         15         16         16         17         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         1	E3 Dalbergia odorifera	降香黃檀	16		3			~	~											16		ie.	_	
Melia azedrach         浩振         16         8         1         0         0         0         0         16         10         16         10         16         16         10         16         16         16         16         16         16         10         16         16         10         16	E4 Acacia auriculiformis	耳果相思	16	1	4															15	104-10			
Sena sime         無刀米         16         8         1         6         0         0         0         0         0         0         16         10         16         10         8         10         1         6         0         1         16         10         8         10         10         0		志棟	16		~			~	~											16		18	~	
Sub-total         5 ab-total         5 ab         41         1         6         0         47         1         0 <td></td> <td>幾刀木</td> <td>16</td> <td></td> <td>~</td> <td></td> <td></td> <td></td> <td>~</td> <td></td> <td>16</td> <td>1001</td> <td>(*)</td> <td></td> <td>(0.49)</td>		幾刀木	16		~				~											16	1001	(*)		(0.49)
Mbs Seedlings         Steelings         Cotal         Steelings         Store and strice         Store and	1	Sub-total	96						1 1	0	0	0	0	0	0	0	0	0	0	88			~	
Chain         Sub-area A1         Sub-area B1         Sub-area B1         Sub-area B1         Sub-area B2         Total           Species         Total         Z20         Z21         Z21 <thz< th=""><th></th><th></th><th></th><th>(35%</th><th>12%</th><th></th><th></th><th>1980</th><th>1 (2%)</th><th>(%))</th><th>(960)</th><th>(%0)</th><th>(%0)</th><th>(%0)</th><th>(%0)</th><th>(0%6)</th><th>(0.22)</th><th>(0,0)</th><th>(07.0)</th><th></th><th></th><th></th><th></th><th></th></thz<>				(35%	12%			1980	1 (2%)	(%))	(960)	(%0)	(%0)	(%0)	(%0)	(0%6)	(0.22)	(0,0)	(07.0)					
Species         Total         Sub-area A1         Sub-area A2         Sub-area B1         Sub-area B2         Total	irubs Seedlings														Ī									
Total       720       720       720       720       2880       2880       x       0       x	<ul> <li>Species</li> </ul>		Total		Sub-	area A1			Sub-a	rea A2			Sub-a	rea B1			Sub-ar	ea B2				Total		
Ubs $\checkmark$ <th></th> <th>Total</th> <th></th> <th></th> <th>720</th> <th>0</th> <th></th> <th></th> <th>720</th> <th></th> <th></th> <th></th> <th>720</th> <th></th> <th></th> <th></th> <th>720</th> <th></th> <th></th> <th></th> <th>288</th> <th>00</th> <th></th> <th></th>		Total			720	0			720				720				720				288	00		
Buxus sinica         廣橋         240         60         53         5         2         59         1         60         233         58         5         5           Calliandra haematocephala         紙紙         240         58         1         1         56         1         3         235         58         5           Calliandra haematocephala         紙紙         240         51         2         55         5         56         1         3         237         58         5           Hamelia patens         紙業本牛         240         51         2         55         5         56         1         3         217         53         5         2         56         4         55         5         224         55         16           Rhododendron sinsiti<	rubs			>	×	0	4	>	×	0	•	>	×	0	•	>	×	0	4		>	~	0	•
Calilandra haematocephala         紅銀珠         240         58         1         1         58         2         59         1         2         5         8         57         1         2         55         5         56         1         3         217         70         23           Hamelia patens         燕葉和         240         51         2         7         58         2         55         5         56         1         3         217         70         23           Ipomee ps-caprae         海難牽牛         240         51         2         55         5         60         23         217         70         23           Rhododerdron sinsit         鉱土地陽         240         59         1         58         2         1         58         2         12         233         77         7           Rhopholeps indica         石砥木         240         59         1         58         2         232         58         11           Rhopholeps indica         石砥木         240         59         1         58         1         57         2         229         57         11           Rhopholeps indica         五砥木         240 <td></td> <td>觉得</td> <td>240</td> <td></td> <td>C</td> <td></td> <td></td> <td>Ω.</td> <td></td> <td>2</td> <td></td> <td>59</td> <td></td> <td>4</td> <td></td> <td>09</td> <td></td> <td></td> <td></td> <td>232</td> <td></td> <td></td> <td>~</td> <td></td>		觉得	240		C			Ω.		2		59		4		09				232			~	
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Iponnea         時         1         2         7         58         2         55         5         60         224         95         16           Rhododendron sinsiti<			240				~	2	2	3		57	1	2		56	Ч	ŝ		217		2	~	
Rhododentron simuli         紅杜鵑         240         56         1         5         5         4         58         2         228         57         7           Pittosprum tobira         海柵         240         59         1         58         2         1         59         1         233         97         7           Rhopholepsi indica         石斑木         240         59         1         58         2         1         59         1         233         97         7           Rhopholeps indica         石斑木         240         59         1         58         2         229         95         11           Rhodomyrus tomentosa         桃金紋         240         59         1         58         2         221         53         11           Rhodomyrus tomentosa         熊鼯桃长         240         53         1         53         1         53         1         23         95         11           I vitex negundo         黃揃         28         2         3         1         53         1         23         10         24         24         23         23         95         30           I vitex negundo         黃揃		中華業建	240			2	2	ŝ	~	2		55	S			60				224		-	10	
Pittosporum tobira         通桐         240         59         1         53         9         1         233         9         7           Rhaphiolepis indica         石斑木         240         59         1         58         2         1         59         1         233         9         1         7           Rhaphiolepis indica         石斑木         240         59         1         58         2         58         2         229         55         11           Rhodomyrus tomentosa         桃金娘         240         59         1         58         2         57         3         229         55         11           Rhodomyrus tomentosa         熊鹿崩板子         240         53         1         51         53         6         1         57         3         229         55         31         29         50         31           Lespedza formosa         美麗胡枝子         240         53         1         53         1         55         3         1         23         26         1         44         23         26         1         14           Utex regrado         55         3         1         55         3         1		紅杜鵑	240		1	-	~	ŝ	3 2			56	4			58	2			228		-	~	
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Rhodomyrus tomentosa         桃金娘         240         59         1         54         1         5         57         3         229         35         11           Stachytarpheta jamaicensis         限馬鞭         240         52         1         6         1         49         1         9         1         53         6         1         2         21         829         30           Stachytarpheta jamaicensis         限馬鞭         240         53         1         53         6         1         57         1         2         211         88         30           Lespedeza formosa         美麗胡枝子         240         54         2         4         55         3         10         54         2         4         210         88         30           Vitex negundo         酒素藝術         240         56         3         1         53         3         4         56         3         1         233         9         17		石斑木	240			2	10	ŝ	6	1		58	2			58		2		229			_	
Stachytacpheta jamaicensis     限馬鞭     240     52     1     6     1     9     1     53     6     1     57     1     2     211     8%     29       Lespedeza formosa     美麗胡枝子     240     53     1     5     1     58     2     3     10     54     2     4     210     8%     30       Lespedeza formosa     黄鸝胡枝子     240     53     1     58     2     3     10     54     2     4     210     8%     30       Vitex negundo     西紫郁郁     240     56     3     1     53     3     4     56     3     1     1     226     94     14		桃金娘	240		6	-	_	5	6	1		54	1	5		57		ŝ		229			_	
Lespedeza formosa     美麗胡枝子     240     53     1     5     1     58     2     45     2     3     10     54     2     4     210     30       Vitex negundo     黄΄     240     54     2     4     57     3     55     3     2     60     1     226     3     14       Vitex notundifolio     面操感前     240     56     3     1     53     3     4     56     3     1     1     223     3     17			240		2	1 (	10	1 4	9 1	6	1	53	9		1	57	1	2		211	282		•	
Vitex negundo 黄荆 <b>240</b> 54 2 4 57 3 2 60 1 <b>226</b> 94 14 Vitex negundo							10	1 5	3 2			45	2	m	10	54	2	4		210			~ .	
Vitex rotundifolia      田葉藝莉 240 56 3 1 53 3 4 56 3 1 1 223 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		進度	240	1			4	ίς.	2	m		55	m	2		09				226			-	
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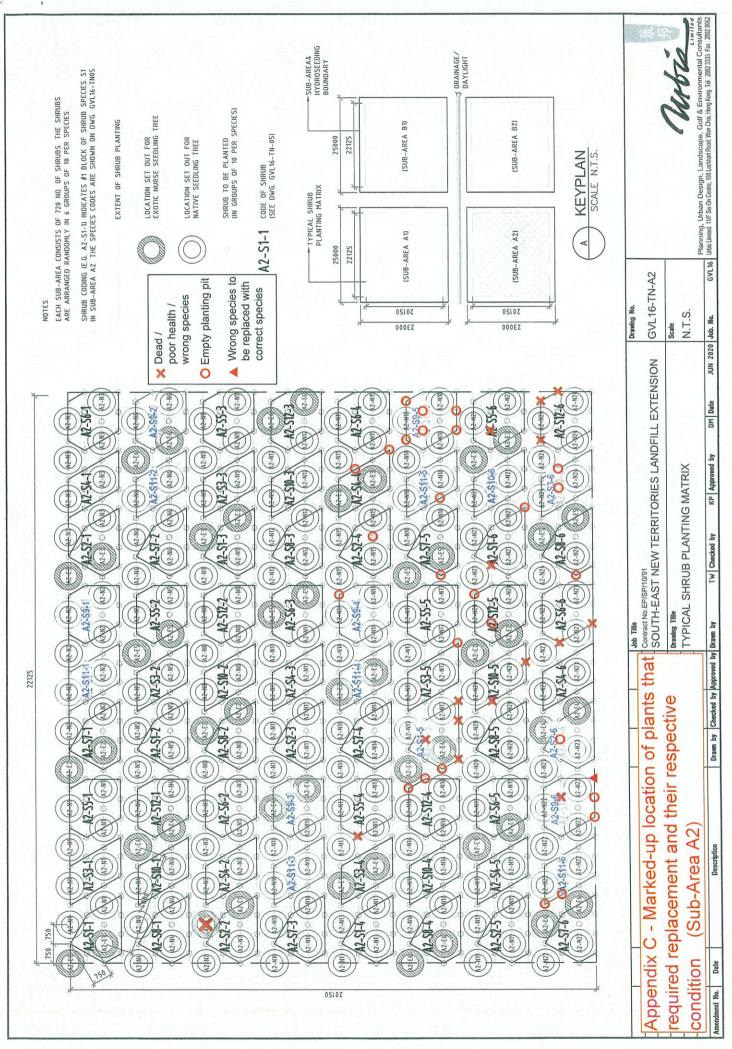
 Acceptable LEGEND

× Dead / Poor health

O Empty planting pit
 ▲ Wrong species

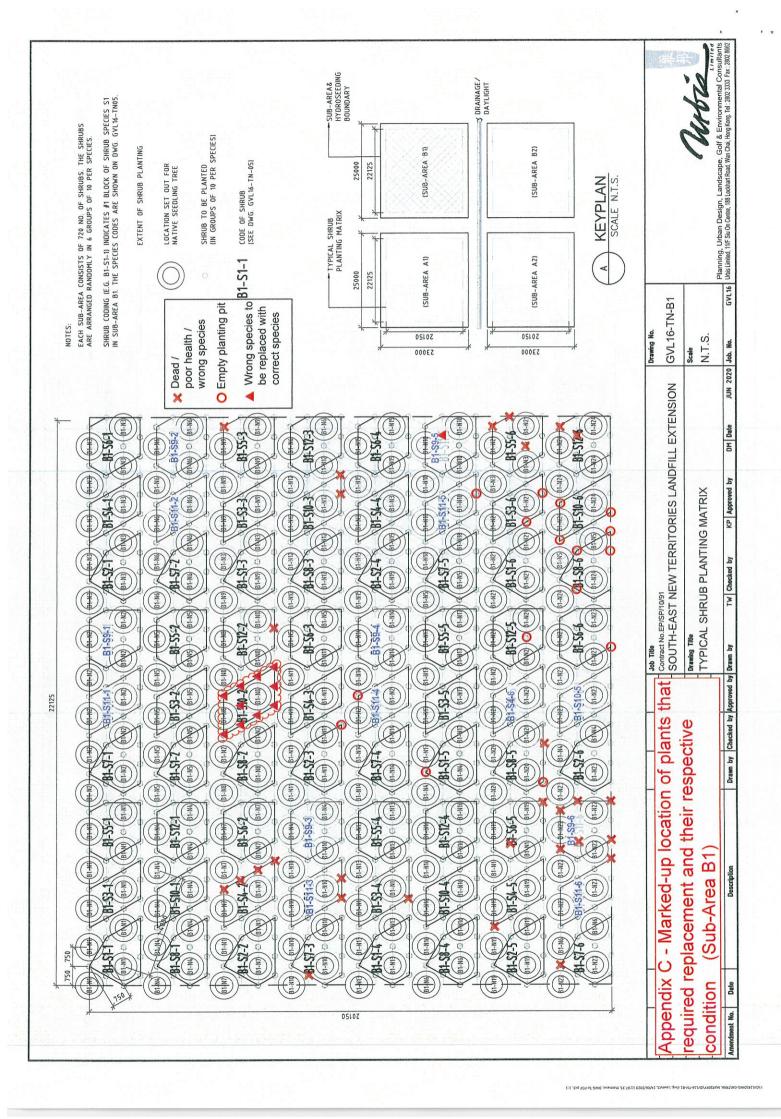
(Sheet 2 of 2)

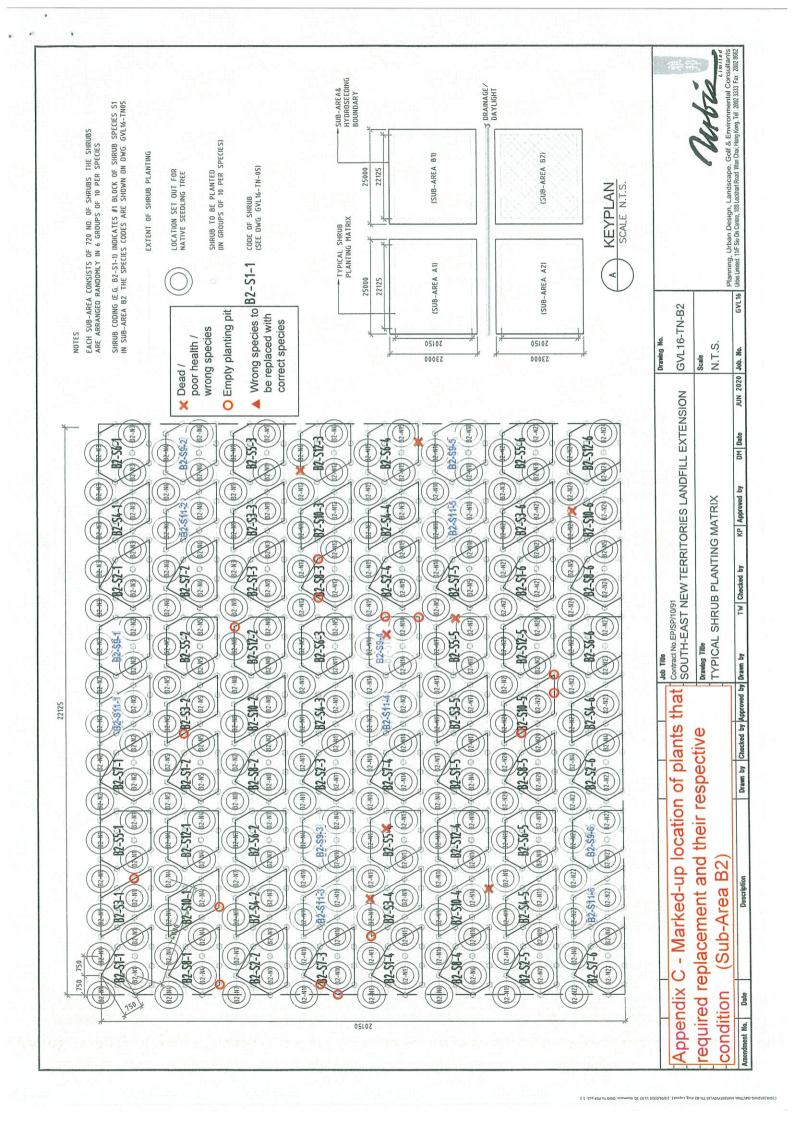




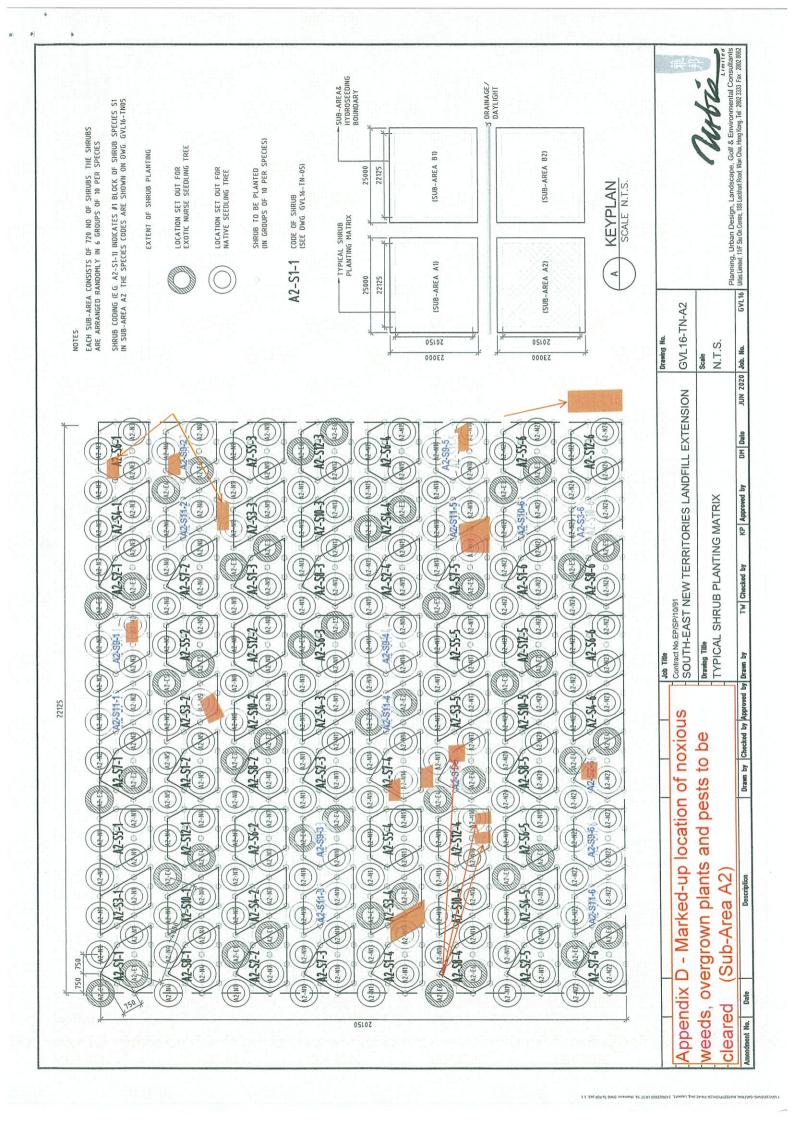
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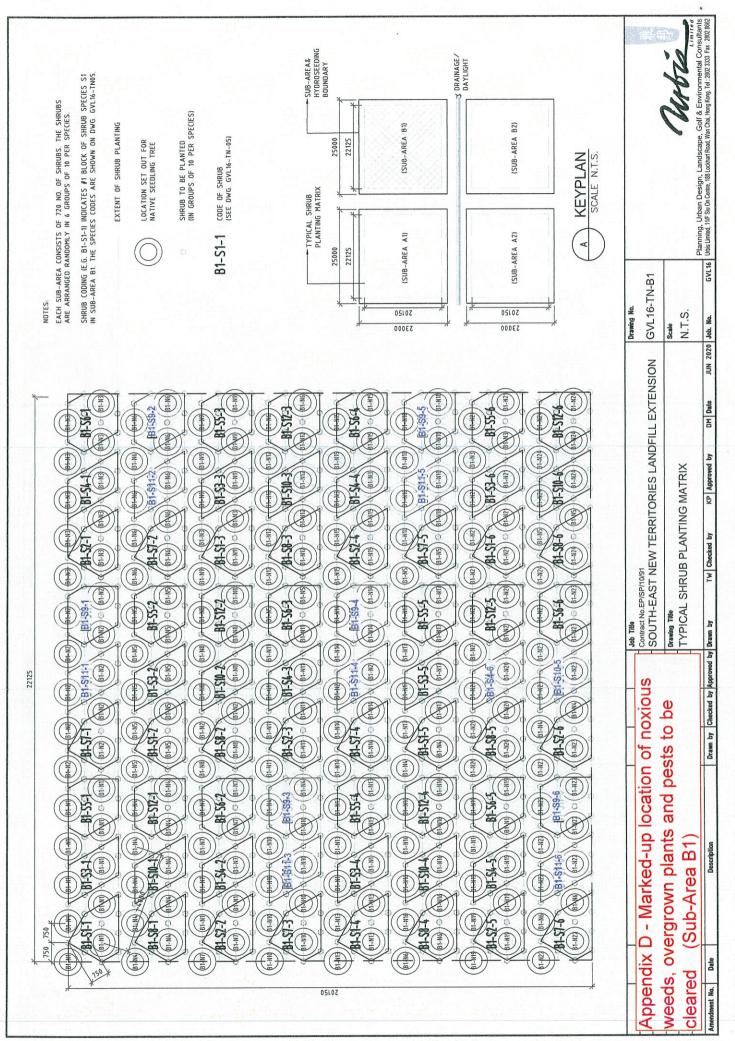
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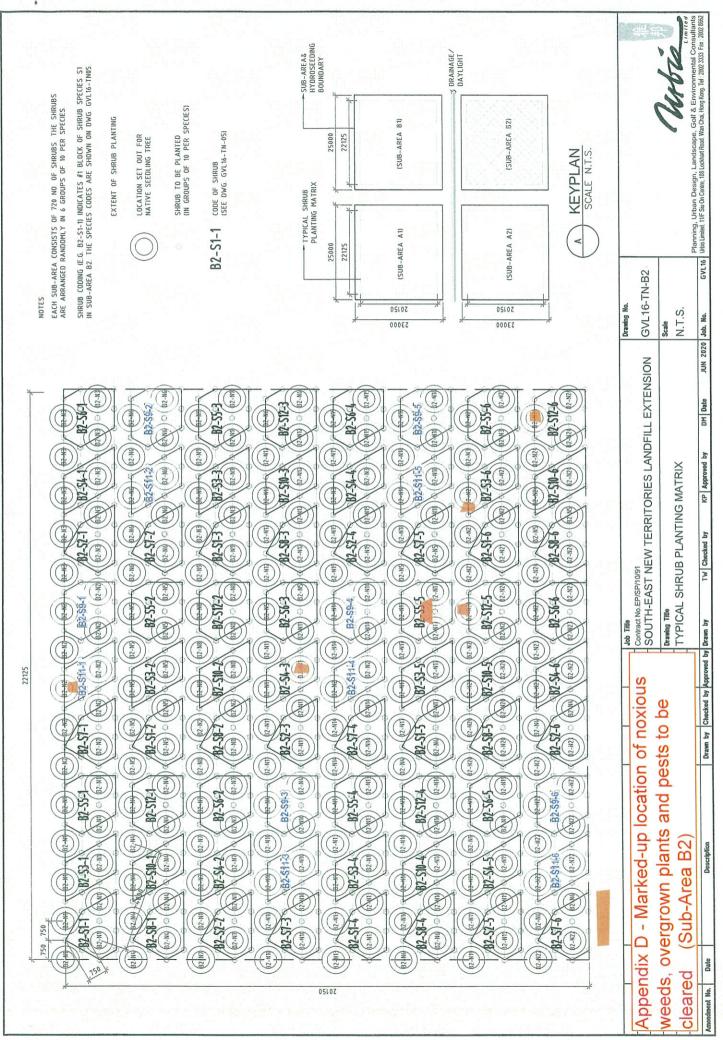


Limited Planning, Urban Design, Landscape, Golf & Environmental Consultants Utes Limed, 11f Stu On Carte, 188 LoobartRoad, Wan Chai, Hong Kong, Tel: 2802 3335 Fax: 2802 8652	IN. 1.3.		(Sub-Area A1)	cleared
autri	Scale	Drawing Title	overgrown plants and pests to be	weeds, ov
	Drawing No. GVL16-TN-A1	Contract No. EP/SP/10/91 SOUTH-EAST NEW TERRITORIES LANDFILL EXTENSION	- Marked-up I	Appendix D
A KEYPLAN Scale N.T.S.		(arr) (arr) (arr) (arr) (arr) (arr) (arr)		
(SUB-AREA B2)	(2018-42) (508-42) (508-42) (508-42) (508-42)		A (1-10)	
A A1) (SUB-AREA B1) 	(2018-401) (2018-40164 41) 50100			
5 7 22125 7 1 22125 7 1	22125	$\left( \begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $		
TYPICAL SHRUB				051
1-1 CODE OF SHRUB (SEE DWG. GVL16-TN-OS)	A1-S1-1			
SHRUB TO BE PLANTED IN GROUPS OF 10 PER SPECIES)			(1-12) (1	
LOCATION SET OUT FOR NATIVE SEEDLING TREE				
LOCATION SET OUT FOR EXOTIC NURSE SEEDLING TREE		(Au 12) ((1004) 5 ((1104)) ((1100)) ((1000) 5 ((1100))	ALSOLD (ALSOLD) (ALSO	Entry P
in sub-akea al. The species cuues are shown on uwo. ove.ig-inos. Extent of shrub planting	IN SUB-AKEA AT. IH	Nu) ( (++)) ( (++) ( (Nu) ) ( (+)		150
NOTES: Each Sub-Area consists of 720 no. of Shrubs. The Shrubs Are Arranged Randomly IN 6 Groups of 10 per Species.	NOTES: EACH SUB-AREA CON ARE ARRANGED RANC		T-112-14	12





. 18-ทา-อย่างญ่งหวระยาท Jaimi/AD-



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Project Contract No. EP/SP/10/91 South East New Territories Trial Nursery	Landfill Extension (S	ENTX)	Job No. GVL16
Date : 28 October 2020	Report No: 6	Present : URBIS : Anny LI, Kity PANG,	Kevin SIN Freddy MAN
Photos Taken : Yes	Weather:		Kevin Sin, rieduy WAN

Rainy and windy

Item	Notes	Action
1.1	The conditions of the planted seedlings and the general set-up of the Trial Nursery were inspected on 28 Oct 2020. This report records all notable observation and serves as the <u>second</u> monthly inspection report for the plants during the establishment period.	Noted
1.2	The following timeline briefly summarises the set-up and planting processes of the Trial Nursery:	Noted
	<ul> <li>From March to May 2020, the general layout of the Trial Nursery and hydroseeding was done by GVL;</li> <li>From June to August 2020, the planting of exotic nurse tree seedlings and shrub seedlings was done by the soft landscape contractor – Hong Kong Landscaping Company Limited (hereafter referred to as HKL);</li> <li>As of Record of Site Inspection No. 4 (dated 12, 14 August 2020), the planting of exotic nurse tree seedlings and shrub seedlings was considered satisfactory and substantially completed. The commencement of the establishment period for the planted seedlings of exotic nurse trees and shrubs followed.</li> <li>Note: The planting trial contains both exotic nurse species and native species. The establishment of native plants will be addressed in separate 'Monitoring Reports'. As per the agreed Monitoring Methodology for the Planting Trials, only failing or failed exotic trees and shrubs will be remediated or replaced, but failed</li> </ul>	
10	native trees will not.	
1.3	HKL shall take note of the observed defects on planted seedlings and rectify them in due course. GVL is also requested to take appropriate actions in response to other irregularities found in the Trial Nursery.	Noted
	<ul> <li>Supplement information is provided in Appendices:</li> <li>Appendix A – Photo record;</li> <li>Appendix B – Detail breakdown of planting statistics by locations and species;</li> <li>Appendix C – Marked-up location of plants that required replacement and their respective condition;</li> <li>Appendix D – Marked-up location of noxious weeds, overgrown plants and pests to be cleared.</li> </ul>	GVL / HKL
1.4	The conditions of the seedlings in Sub-Area A1 are summarised below:	GVL / HKL



Job No. GVL16

Project Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery

a) In fair conditions / seedlings to be monitored	<u> </u>		Shi	rubs	То	tal
be monitored		48	7	20	7	68
Detected	40	(83%)	649	(90%)	689	(90%)
Rejected b) In very poor conditions / dead seedlings to be replaced c) Empty pits / seedlings not	2	(4%)	30	(4%)	32	(4%)
planted d) Seedlings of wrong species to be replaced	6	(13%) (0%)	39 2	(5%) (0%)	45 2	(6%) (0%)
Refer to Appendix C for the Marked-u replacement and their respective conc Photos: 01-02 The conditions of the seedlings in Sub	dition.					
Planted seedlings in Sub-Area A2	Exoti	c trees	Sh	rubs	To	otal
Total		48	7	20	7	68
Acceptable a) In fair conditions / seedlings to be monitored	46	(96%)	635	(88%)	681	(89%)
Rejected	1	(2%)	41	(6%)	42	(5%)
b) In very poor conditions / dead seedlings to be replaced			42	(6%)	42	(5%)
b) In very poor conditions / dead	0	(0%)	74	(076)		(570)

Page 2 of 5

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	et No. EP/SP/10/91 East New Territories Landfill Extension (SENTX) Irsery		Job No. GVL16	
	Refer to Appendix C for the Marked-up location of pl replacement and their respective condition. Photos: 03-04	ants that requ	ired	
1.6	The conditions of the seedlings in Sub-Area B1 are su	ımmarised bel	ow:	GVL / HKL
	Planted seedlings in Sub-Area B1			
		Shrubs	Total	
	Total	720	720	
	Acceptable			
	a) In fair conditions / seedlings to be monitored	652 (91%)	652 (91%)	
	Rejected b) In very poor conditions / dead seedlings to be replaced	30 (4%)	30 (4%)	
	c) Empty pits / seedlings not planted	28 (4%)	28 (4%)	
	d) Seedlings of wrong species to be replaced	10 (1%)	10 (1%)	
	<ul> <li>The contractor shall replace / complete the planting one month, including: <ul> <li>(i) 30 of the seedlings due to the very poor con</li> <li>(ii) 28 of the seedlings due to their non-existence</li> <li>(iii) 10 of the seedlings due to their wrong specie</li> </ul> </li> <li>Refer to Appendix C for the Marked-up location of p replacement and their respective condition.</li> <li>Photos: 05-06</li> </ul>	ditions / death ce on-site; es.	η;	
1.7	The conditions of the seedlings in Sub-Area B2 are s	ummarised be	low:	GVL / HKL
	Planted seedlings in Sub-Area B2			
		Shrubs	Total	
	Total	720	720	
	Acceptable		-	
	a) In fair conditions / seedlings to be monitored	686 (95%)	686 (95%)	
	Rejected b) In very poor conditions / dead seedlings to be replaced	12 (2%)	12 (2%)	
	c) Empty pits / seedlings not planted	22 (3%)	22 (3%)	
	d) Seedlings of wrong species to be replaced	0 (0%)	0 (0%)	



	t No. EP/SP/10/91 ast New Territories Landfill Extension (SENTX)	Job No. GVL16	
rial Nu	rsery		
	<ul> <li>The contractor shall replace / complete the planting for the rejected plan one month, including:</li> <li>(i) 12 of the seedlings due to the very poor conditions / death;</li> <li>(ii) 22 of the seedlings due to their non-existence on-site.</li> </ul>	nts within	
	Refer to Appendix C for the Marked-up location of plants that required replacement and their respective condition.		
	Photos: 07-08		
1.8	Different degrees of severity of noxious weeds such as <i>Leucaena leucoce</i> (銀合歡) and <i>Mikania micrantha</i> (薇甘菊), and nests of Red Imported Fire observed.		GVL / HKI
	Refer to the marked-up locations of the above in Appendix D. Removal a noxious weeds and eradication of nests of Red Imported fire Ant is requi		
	Photos: 09-11		
1.9	The entrance gates of the Sub-Areas A1, A2, B1 and B2 of the Trial Nurse partially collapsed.	ery are	GVL / HK
	The collapsed entrance gates shall be repaired.		
1.10	The planting locations of all S9 seedlings ( <i>Stachytarpheta jamaicensis</i> 假 and S11 seedlings ( <i>Vitex negundo</i> 黃荊) have swapped.	馬鞭)	Noted
	As mentioned in Record of Site Inspection No. 3, the swapping of these species was deemed acceptable. The drawings accompanying this report been updated accordingly.		
	<b>Update as of Site Inspection No. 5 (24, 28 September 2020)</b> : As revealed during the inspection as some of the seedlings were flower shrub species S9 planted on-site was found to be <i>Vitex rigida</i> 顯脈馬鞭車		
	Both Vitex rigida 顯脈馬鞭草 and Stachytarpheta jamaicensis 假馬鞭 are species and both belong to the same plant family Verbenaceae, they sha of similarities in ecological and botanical aspects. They also have similar requirements for growth and possibly a similar life cycle. Based on such similarity, we suggest the planted Vitex rigida 顯脈馬鞭草 could be retai site for onward monitoring in Trial Nursery; but if Vitex rigida 顯脈馬鞭草 significantly fails later during the establishment period, the original spec Stachytarpheta jamaicensis 假馬鞭 shall be planted.	are a lot ned on- 互	
1.11	Following changes of species locations are found and deemed unaccept	able:	HKL
	– In Sub-Area A1, 1 no. <i>Ipomoea pes-caprae</i> 海灘牽牛 has been wron	gly	



Project		Job No.	
	No. EP/SP/10/91 ast New Territories Landfill Extension (SENTX) sery	GVL16	
	<ul> <li>planted at specified location for S10 seedlings (<i>Lespedeza formosa</i> 手).</li> <li>In Sub-Area A2, 1 no. <i>Cassia nodosa</i> 節果決明 has been wrongly pla specified location for E6 tree seedling (<i>Senna siamea</i> 鐵刀木).</li> <li>In Sub-Area B1, a group of <i>Ipomoea pes-caprae</i> 海灘牽牛 (10 nos.) planted at the locations for shrub species S10 (<i>Lespedeza formosa</i> 手).</li> <li>In Sub-Area A1, A2 and B1, there are a few occasions where a specification sp. 鼠尾草屬 was planted in place of S9 seedlings.</li> </ul>	anted at were 美麗胡枝 ies of	
1.11	It is noted weed mats were being installed by GVL for each seedlings in Nursery. The weed mat installation is completed for Sub-Areas A1, B1 a Some missing weed mat locations are identified during this inspection a marked-up in Appendix D for GVL's reference and follow-up action. Installation at Sub-Area A2 is due to be completed.	nd B2.	GVL

Prepared by: Anny LI/ Kevin SIN / Freddy WAN

Anny Li Revin Sill / Leddy WA

Certified Arborist / Horticulturist

Approved by: David MORKEL

Director

Kity PANG

Landscape Designer

APPENDIX A

Report No. 6

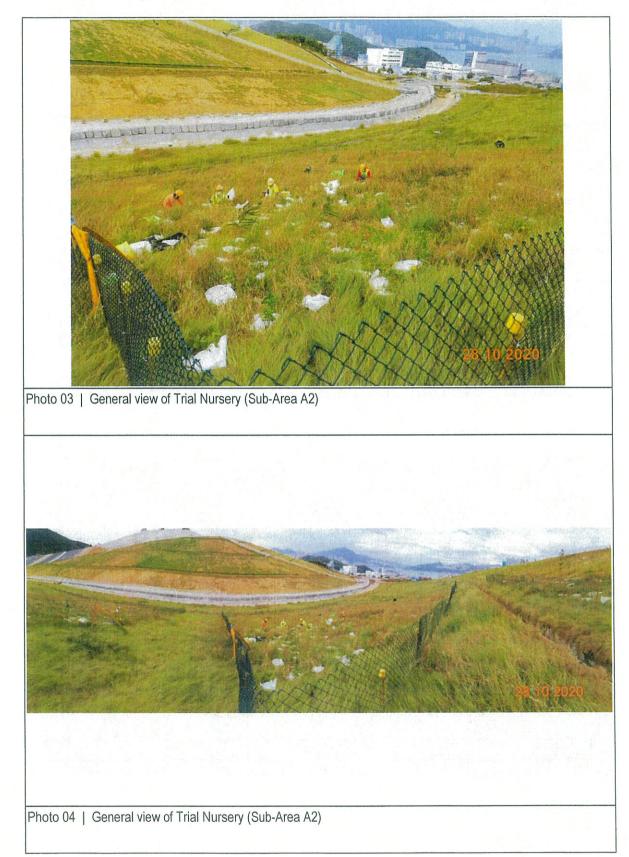
Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery Job No.: GVL16 Inspection Date: 28 October 2020



Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery Job No.: GVL16 Inspection Date: 28 October 2020

#### APPENDIX A

Report No. 6



Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery Job No.: GVL16 Inspection Date: 28 October 2020



Report No. 6

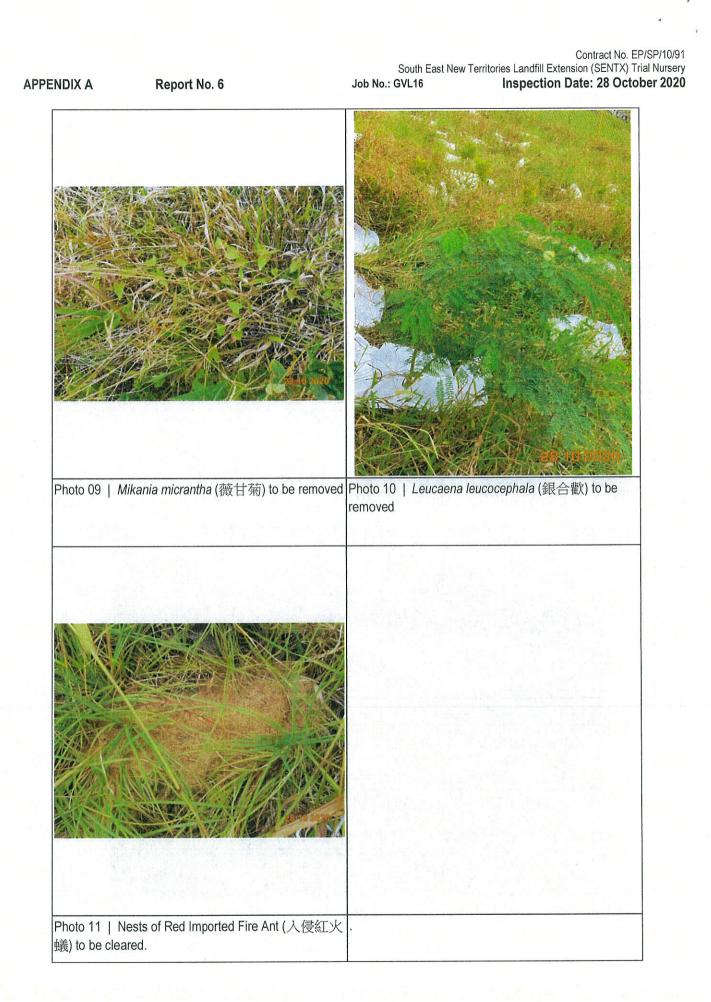


Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery Job No.: GVL16 Inspection Date: 28 October 2020

# Photo 07 | General view of Trial Nursery (Sub-Area B2) TREELO Toppe A SLITTER. Photo 08 | General view of Trial Nursery (Sub-Area B2)

Report No. 6

APPENDIX A



Appendix B - Detail breakdown of planting statistics by locations and species (updated on 28 Oct 2020)

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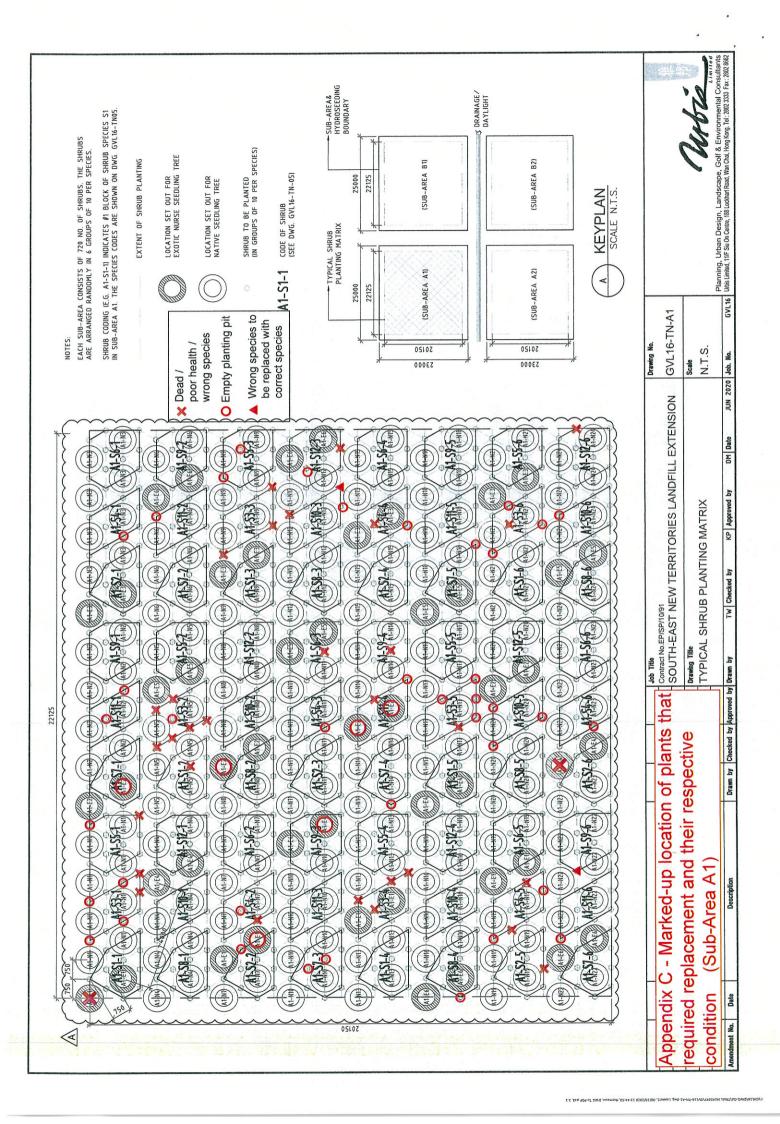
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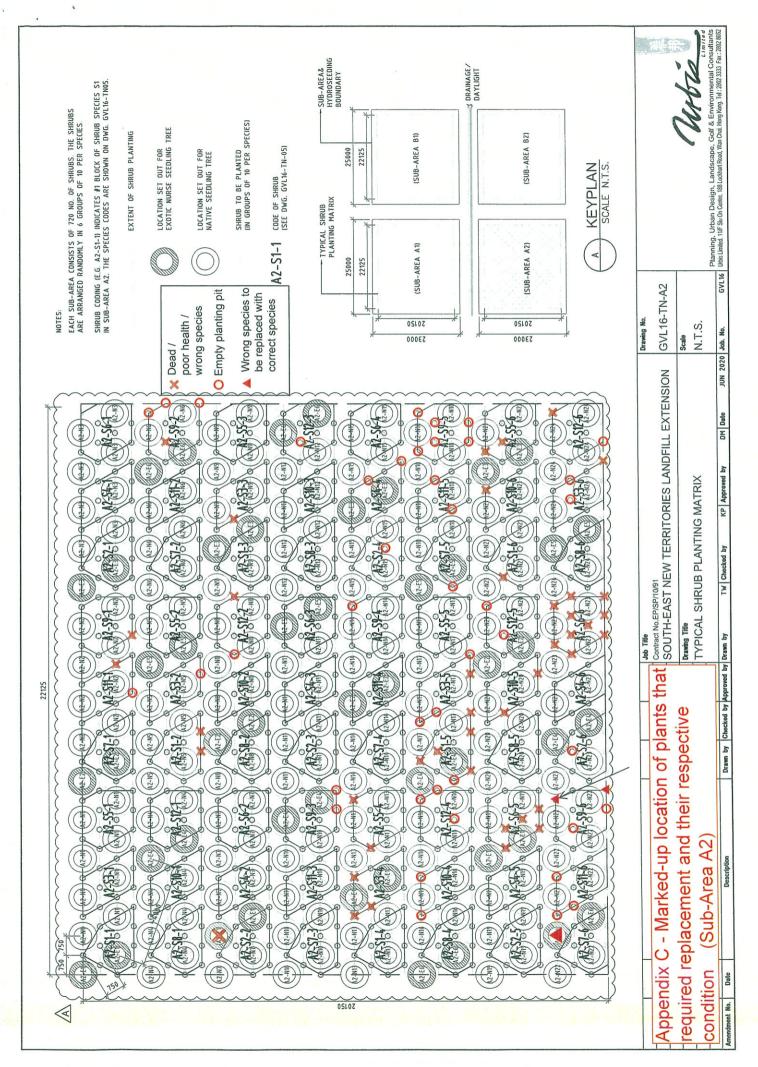
**Exotic Trees Seedlings** 

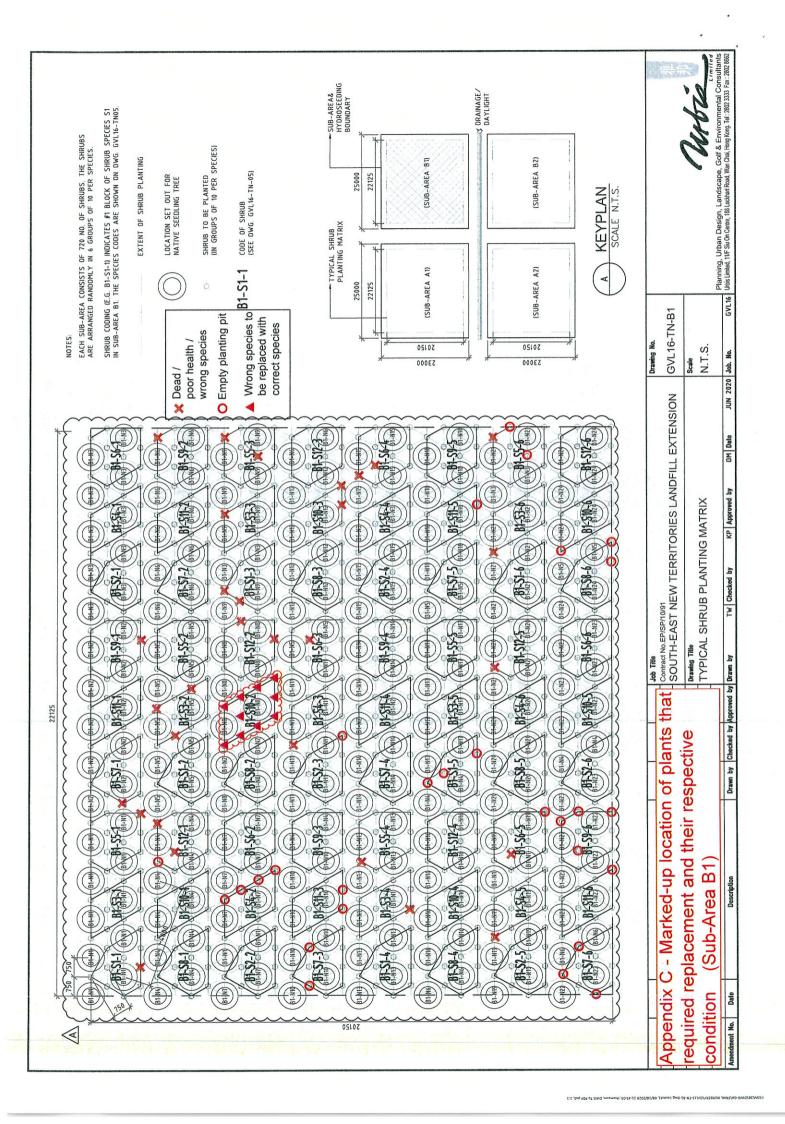
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Ň	"	•	Exotic Trees	E1. A	E2 C	о Ш	E4 A	ES M						י											~			

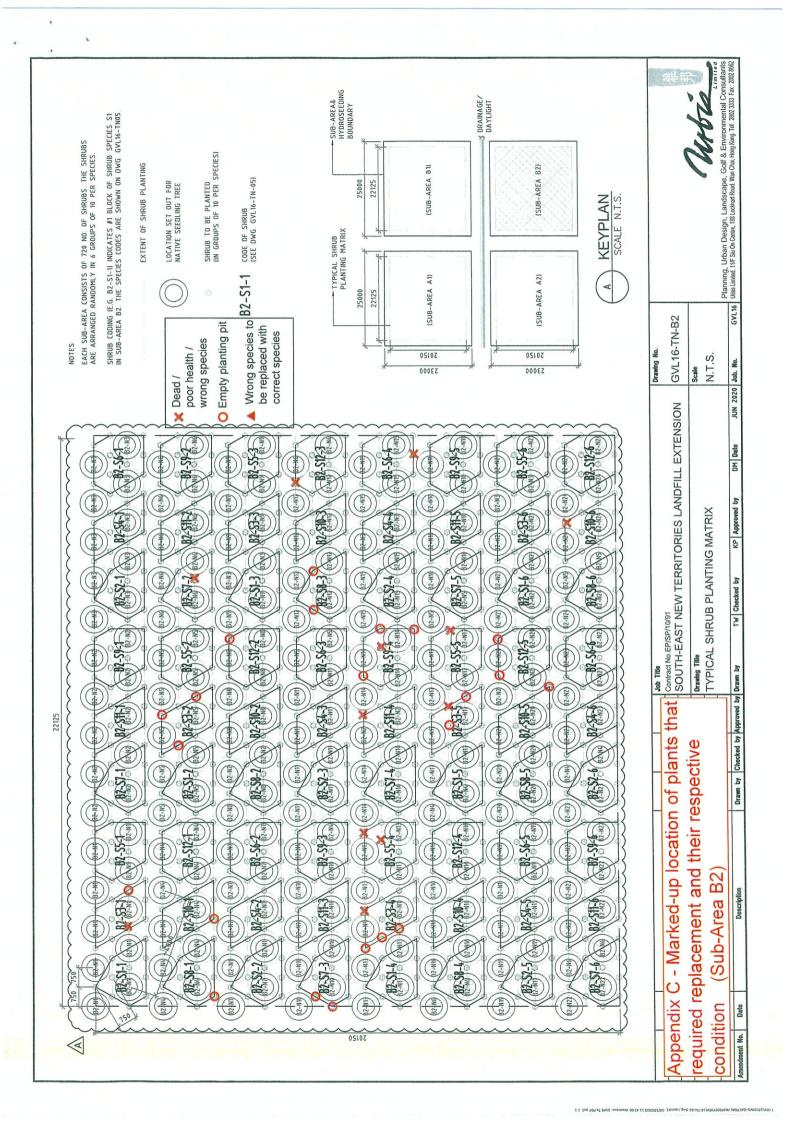
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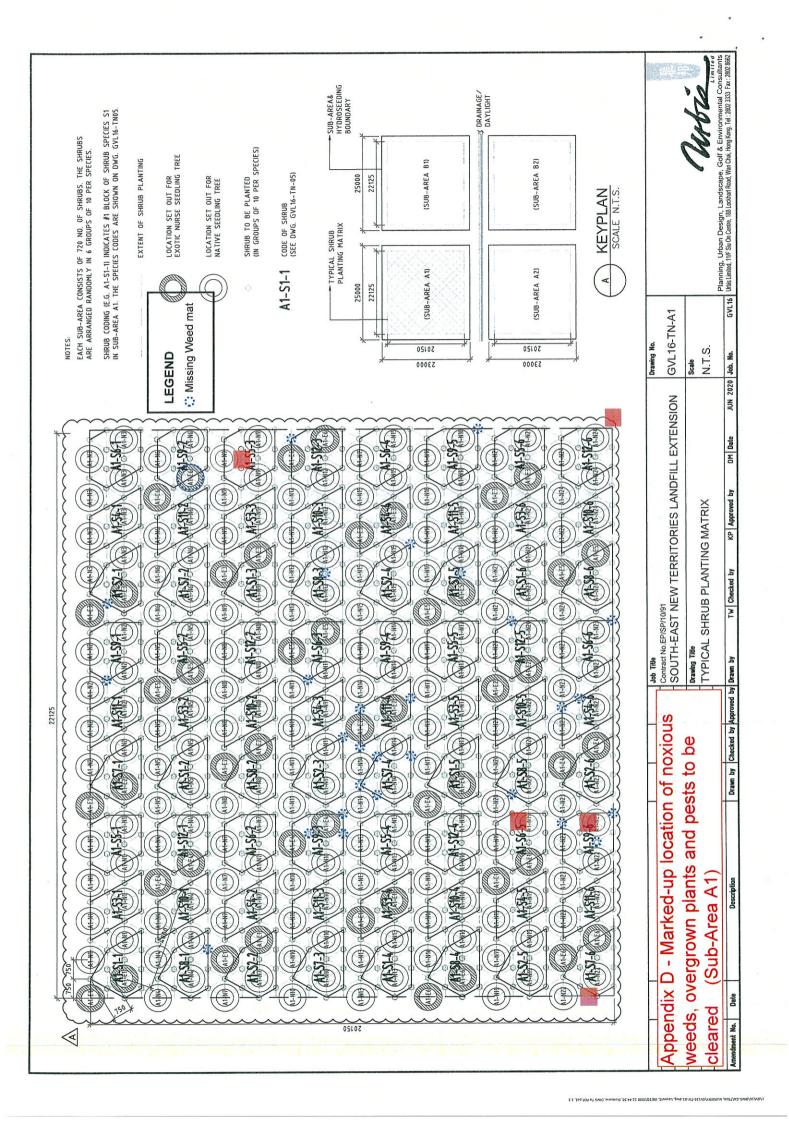
Acceptable
 Dead / Poor health
 Empty planting pit
 Wrong species

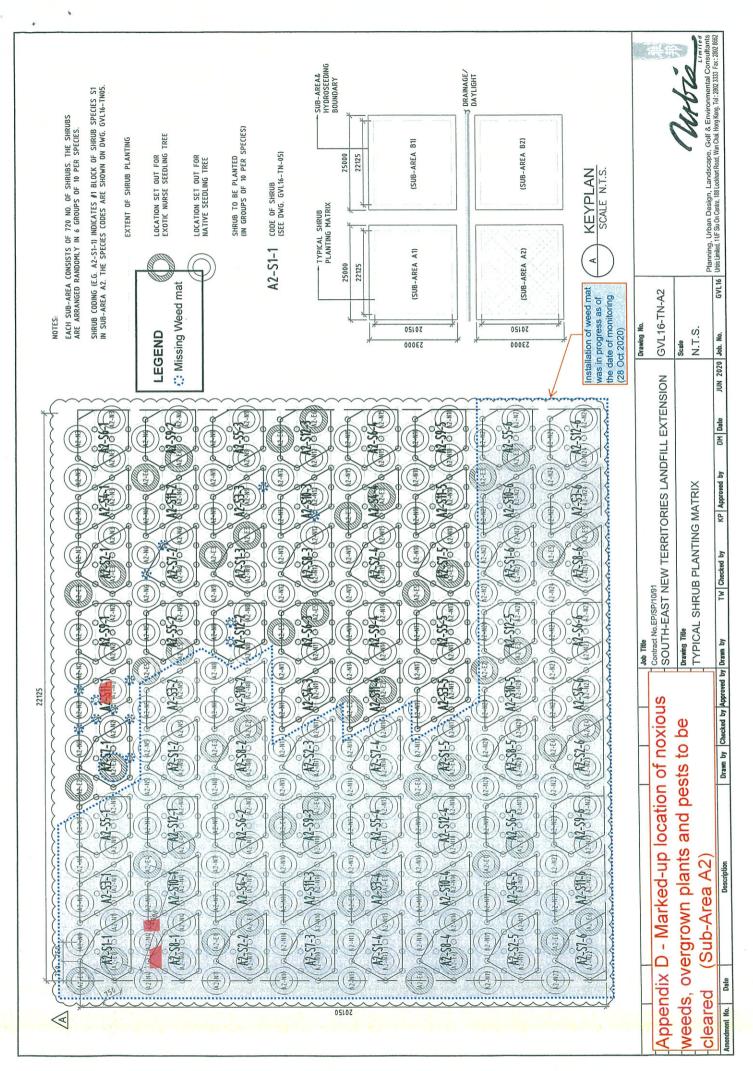


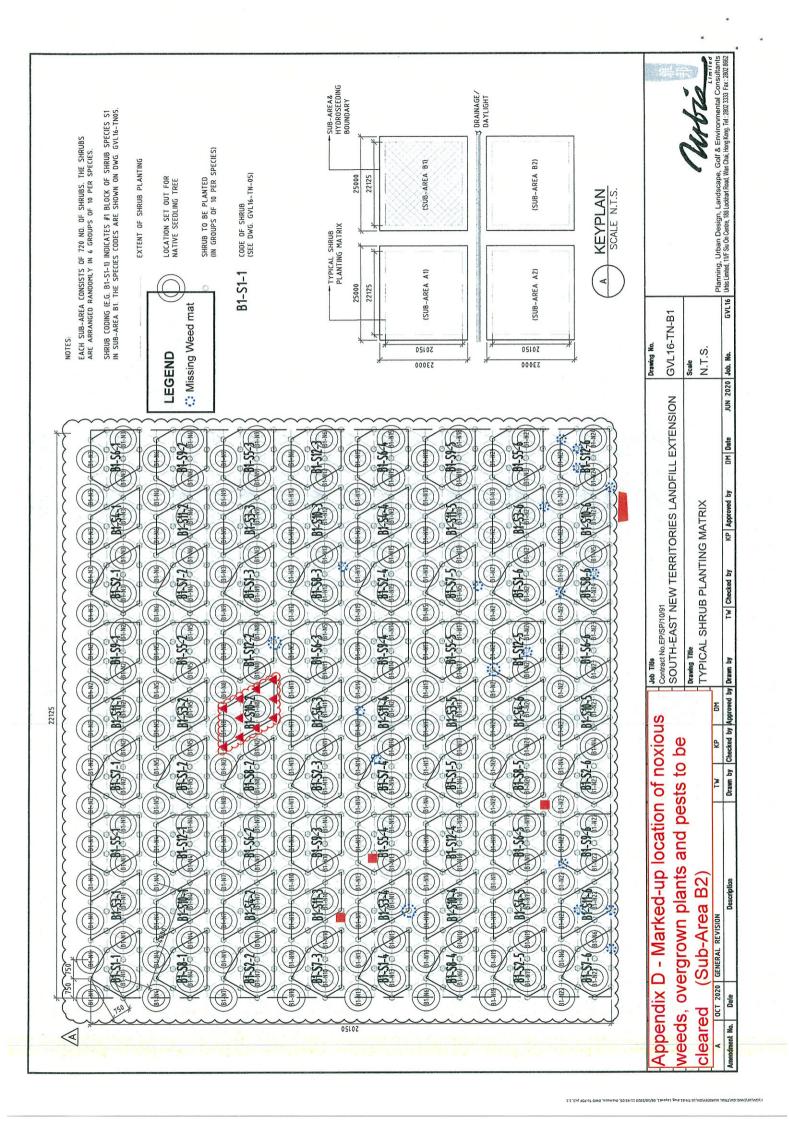


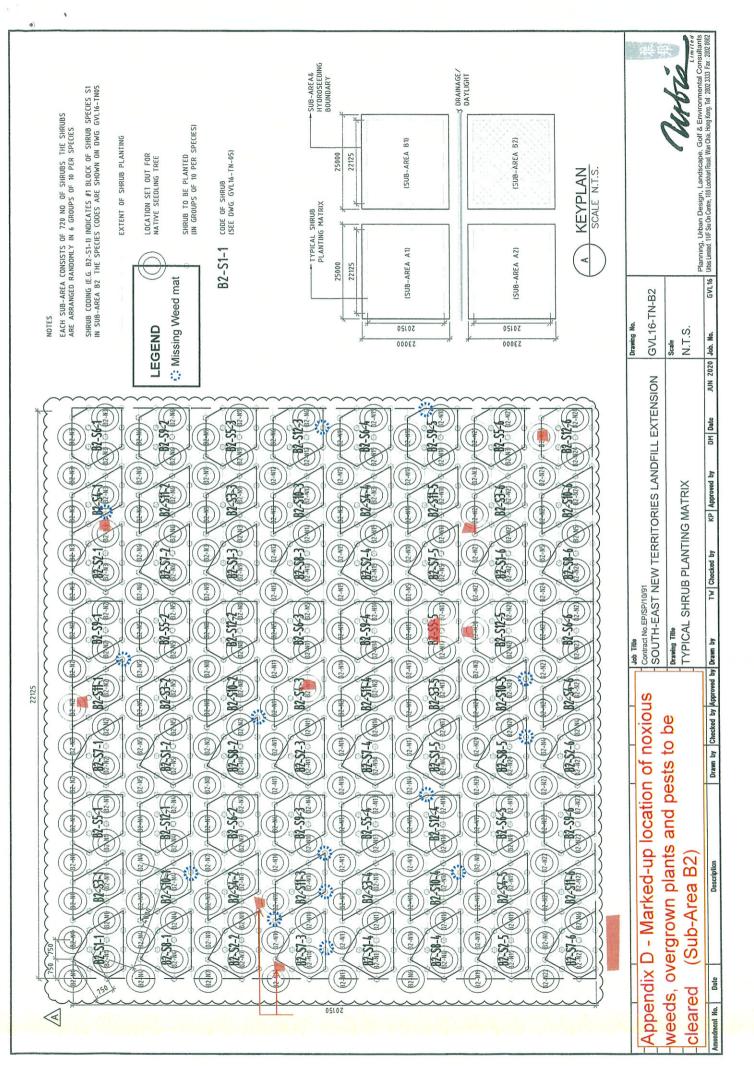












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Project	
Contract No. EP/SP/10/91	
South East New Territories Landfill Extension (SENTX)	
Trial Nursery	

Date: 27 November 2020	Report No.: 7	Present: URBIS : Anny LI, Kevin SIN
Photos Taken: Yes	Weather: Rainy and windy	

Item	Notes	Action
1.1	The conditions of the planted seedlings and the general set-up of the Trial Nursery were inspected on 27 Nov 2020. This report records all notable observation and serves as the <u>third</u> monthly inspection report for the plants during the establishment period.	Noted
1.2	The following timeline briefly summarises the set-up and planting processes of the Trial Nursery:	Noted
	<ul> <li>From March to May 2020, the general layout of the Trial Nursery and hydroseeding was done by GVL;</li> <li>From June to August 2020, the planting of exotic nurse tree seedlings and shrub seedlings was done by the soft landscape contractor – Hong Kong Landscaping Company Limited (hereafter referred to as HKL);</li> <li>As of Record of Site Inspection No. 4 (dated 12, 14 August 2020), the planting of exotic nurse tree seedlings and shrub seedlings was considered satisfactory and substantially completed. The commencement of the establishment period for the planted seedlings of exotic nurse trees and shrubs followed.</li> <li>Note: The planting trial contains both exotic nurse species and native species. The establishment of native plants will be addressed in separate 'Monitoring Reports'. As per the agreed Monitoring Methodology for the Planting Trials, only failing or failed exotic trees and shrubs will be remediated or replaced, but failed native trees will not.</li> </ul>	
1.3	HKL shall take note of the observed defects on planted seedlings and rectify them in <u>due course</u> . It is acknowledged that replacement is not ideal during winter/dry season. The contractor shall keep record of the previous and this reports and prepare to start sourcing quality stocks for replacement before commencement of spring.	GVL/HKL
	<ul> <li>Supplement information is provided in Appendices:</li> <li>Appendix A – Photo record;</li> <li>Appendix B – Detail breakdown of planting statistics by locations and species;</li> <li>Appendix C – Marked-up location of plants that required replacement and their respective condition (newly found dead/poor health plants during this inspection are marked-up in a different colour for ease of reference);</li> </ul>	
1.4	Several deciduous species were observed to start shedding foliage, most prominent on <i>Lespedeza formosa</i> (S10). Majority of the foliage were turning yellowish. The	Noted



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Project	Job No.
Contract No. EP/SP/10/91	GVL16
South East New Territories Landfill Extension (SENTX)	
Trial Nursery	

	Notes	n to série <u>Training</u>		<u> </u>				Action
	branches felt spongy to the touch, Ul species to be fair and there is no imm					conditio	on of the	
	Photos: 01-06							
1.5	There is general observation of deter species, except for <i>Calliandra haem</i> species with most increase in number (S5). The total number of rejected <i>R</i> . last month to 48 nos. (20%) this mont There is no obvious cause found.	atocep er of de indica	<i>hala</i> and eath/wors	<i>Rhaph</i> e healt	<i>iolepis in</i> h <mark>is Rho</mark> a	dica. Ti lodendr	he shrub <i>on simsii</i>	Noted
	The performance of exotic tree seed no. more rejected plants of <i>Cassia no</i>							
	Photo: 07							
1.6	The conditions of seedlings in Sub-A	rea A1 a	are summ	arised	below:	<b>.</b>		GVL / HI
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
	Planted seedlings in Sub-Area A1				-	1		
			c Trees		rubs		otal	
		1	48	7	20	7	68	
	Total							
	Acceptable							
		39	(81%)	633	(88%)	672	(88%)	
	Acceptable a) In fair conditions / seedlings to		(81%)	633	(88%)	672	(88%)	
	Acceptable a) In fair conditions / seedlings to be monitored		(81%)	633 52	(88%) (7%)	672 55	(88%) (7%)	
	Acceptable a) In fair conditions / seedlings to be monitored Rejected b) In very poor conditions / dead	39						
	<ul> <li>Acceptable</li> <li>a) In fair conditions / seedlings to be monitored</li> <li>Rejected</li> <li>b) In very poor conditions / dead seedlings to be replaced</li> <li>c) Empty pits / seedlings not</li> </ul>	39 3	(6%)	52	(7%)	55	(7%)	



Project

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Contract No. EP/SP/10/91

South East New Territories Landfill Extension (SENTX) Trial Nursery Job No. GVL16

Item	Notes							Action
1.7	The conditions of seedlings in Sul Planted seedlings in Sub-Area A		are summ	arised k	oelow:			GVL / HKL
			c Trees	Shi	rubs	То	otai	
	Total		48	7	20	70	68	1
	Acceptable							
	a) In fair conditions / seedlings be monitored	to 44	(92%)	598	(83%)	642	(84%)	
	Rejected							
	b) In very poor conditions / de seedlings to be replaced	ead 3	(6%)	83	(12%)	86	(11%)	
	c) Empty pits / seedlings planted	0	(0%)	37	(5%)	37	(5%)	
	d) Seedlings of wrong species be replaced	to 1	(2%)	2	(0%)	3	(0%)	
	represents an increase of 5% of Refer to Appendix C for the Mar and their respective condition. Photo: 09					red rep	lacement	
	FIIOLO. US							
1.8	The conditions of seedlings in Su	b-Area B1	are summ	narised	below:			GVL / HKL
1.8	The conditions of seedlings in Su		are summ	narised	below:			GVL / HKL
1.8			are summ	1	below: rubs		otal	GVL / HKL
1.8	The conditions of seedlings in Su		are summ	Sh			otal 720	GVL / HKL
1.8	The conditions of seedlings in Su Planted seedlings in Sub-Area		are summ	Sh	rubs			GVL / HKL
1.8	The conditions of seedlings in Su Planted seedlings in Sub-Area Total Acceptable a) In fair conditions / seedling	B1		Sh	rubs			GVL / HKL
1.8	The conditions of seedlings in Su Planted seedlings in Sub-Area Total Acceptable	<b>B1</b>	nitored	Sh	rubs 720	7	/20	GVL / HKL
1.8	The conditions of seedlings in Su Planted seedlings in Sub-Area Total Acceptable a) In fair conditions / seedling Rejected b) In very poor conditions / de	<b>B1</b> s to be mo ead seedlin	nitored	<b>Sh</b> 640	rubs 720 (89%)	640	7 <b>20</b> (89%)	GVL / HKL



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Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery Job No. GVL16

Item	Notes					Action
	In total, the Contractor shall replace / complete the plants in due course for Sub-area B1, compared to represents <b>an increase of 1.7%</b> of overall plants in su	o 68 no b-area	os. from 1 B1.	last mo	onth, that	
	Refer to Appendix C for the Marked-up location of p and their respective condition.	nants t	nat requi	reu rep	acement	
	Photo: 10					
1.9	The conditions of seedlings in Sub-Area B2 are summ	arised	pelow:			GVL / HKL
	Planted seedlings in Sub-Area B2	· · · · · · · · · · · · · · · · · · ·		1		
		Sh	rubs	T	otal	
	Total	7	20	7	20	
	Acceptable			ļ		
	a) In fair conditions / seedlings to be monitored	658	(91%)	658	(91%)	
	Rejected					
	b) In very poor conditions / dead seedlings to be replaced	40	(6%)	40	(6%)	
	c) Empty pits / seedlings not planted	22	(3%)	22	(3%)	
	d) Seedlings of wrong species to be replaced	0	(0%)	0	(0%)	
	In total, the Contractor shall replace / complete the plants in due course for Sub-area B2, compared to represents <b>an increase of 3.9%</b> of overall plants in sur Refer to Appendix C for the Marked-up location of pland their respective condition. <b>Photos: 11-12</b>	o 34 no Ib-area	os. from B2.	last mo	onth, that	
1.10	GVL have completed installing weed mats to all pla assist in curbing weed growth around the seedling inspection.					
1.11	The entrance gates of the Sub-Areas A1, A2, B1 a partially collapsed.	and B2	of the 1	Frial Nu	irsery are	GVL
	The collapsed entrance gates shall be repaired.					

Nubis

Job No.

GVL16

Project

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Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery

Item	Notes	Action
1.12	The planting locations of all S9 seedlings (Stachytarpheta jamaicensis 假馬鞭) and S11 seedlings (Vitex negundo 黃荊) have swapped.	Noted
	As mentioned in Record of Site Inspection No. 3, the swapping of these two species was deemed acceptable. The drawings accompanying this report have been updated accordingly.	
	<b>Update as of Site Inspection No. 5 (24, 28 September 2020):</b> As revealed during the inspection as some of the seedlings were flowering, the shrub species S9 planted on-site was found to be <i>Verbena rigida</i> (顯脈馬鞭草).	
	Both Verbena rigida (顯脈馬鞭草) and Stachytarpheta jamaicensis (假馬鞭) are exotic species and both belong to the same plant family Verbenaceae, they share a lot of similarities in ecological and botanical aspects. They also have similar requirements for growth and possibly a similar life cycle. Based on such similarity, we suggest the planted Verbena rigida (顯脈馬鞭草) could be retained on-site for onward monitoring in Trial Nursery; but if Verbena rigida (顯脈馬鞭草) significantly fails later during the establishment period, the original species Stachytarpheta jamaicensis (假馬鞭) shall be planted.	

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Prepared by:

Approved by: David Morkel Director

Anny 🖽 Certified Arborist / Horticulturist

APPENDIX A

Report No. 7

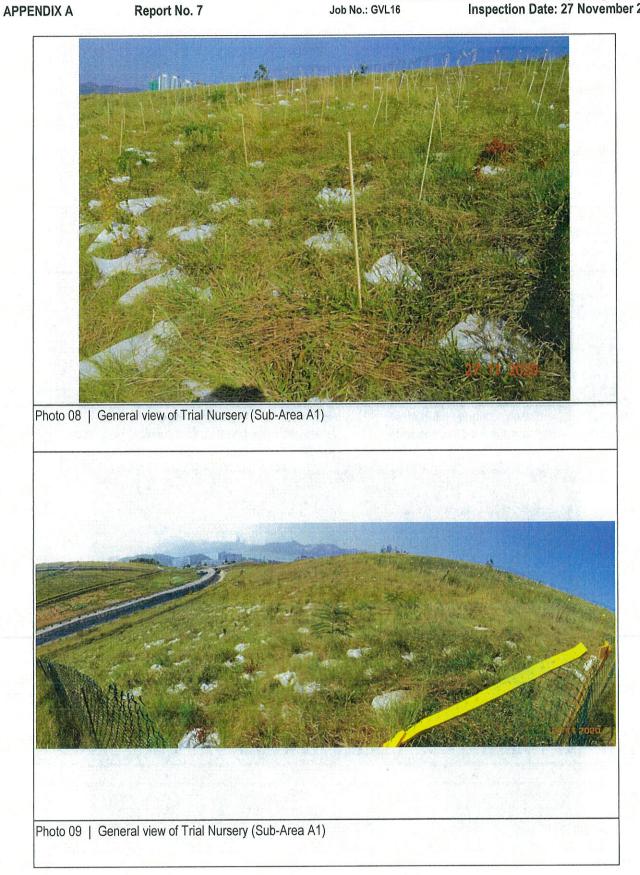
Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery Inspection Date: 27 November 2020 Job No.: GVL16



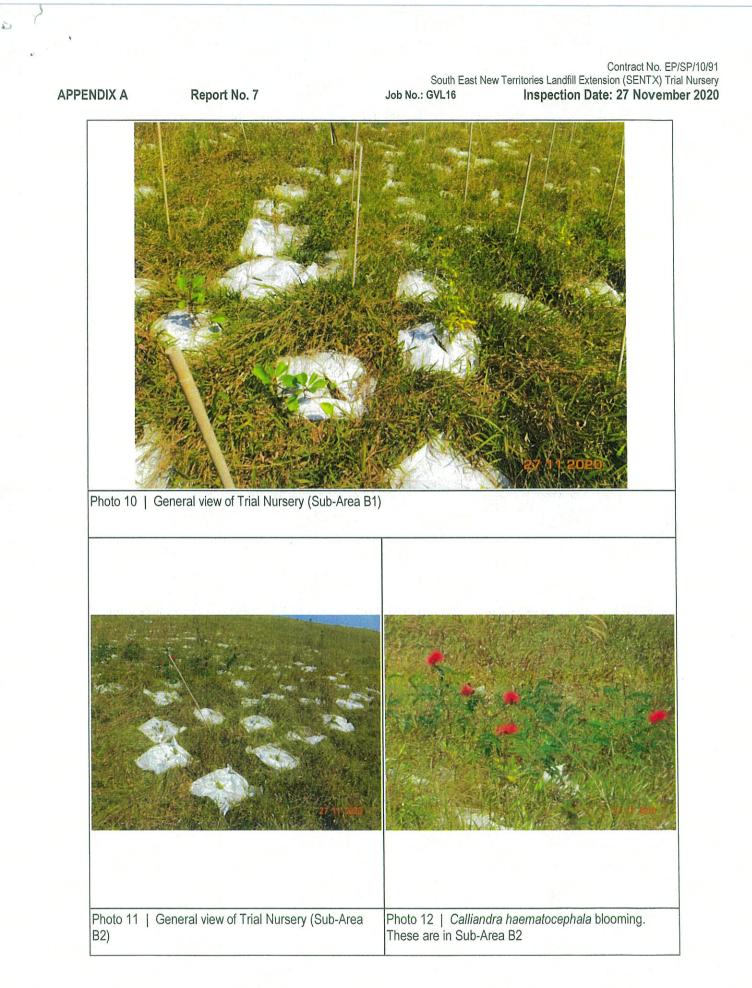
Cassia nodosa. The current health condition is assessed to be fair

Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery GVL16 Inspection Date: 27 November 2020 APPENDIX A Report No. 7 Job No.: GVL16 Photo 06 | Leaf buds occurred on this Melia Photo 05 | Defoliation occurred on this Melia azedarach, which is a deciduous tree species. azedarach. The current health condition is assessed to be fair Photo 07 | General deteriorated health of *Rhododendron simsii* was observed during this inspection. The cause is unknown.

Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery Job No.: GVL16 Inspection Date: 27 November 2020



Page 3 of 4



Appendix B - Detail breakdown of planting statistics by locations and species (updated on 27 Nov 2020)

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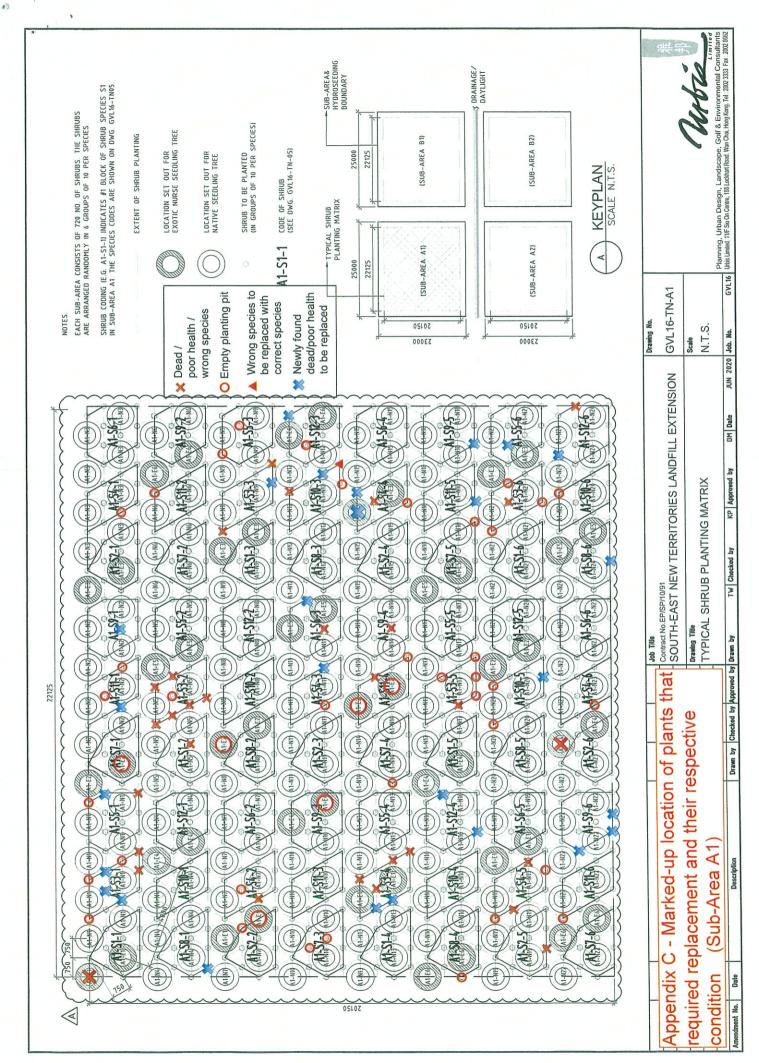
Intraction         Total $+48$ $+48$ $+48$ $+48$ $+48$ $+48$ $+68$ $+7$ $-7$ </th <th>Total         Total         <math>48</math> <math>48</math> <math>48</math> <math>48</math> <math>48</math> <math>48</math> <math>11</math> <math>48</math> <math>11</math> <math>12</math> <math>28</math> <math>66</math> <math>20</math> <math>11</math> <math>20</math> <math>11</math> <math>20</math>        &lt;</th> <th>Species</th> <th></th> <th>Total</th> <th></th> <th>Sub-a</th> <th>Sub-area A1</th> <th>本語</th> <th>1.1.1</th> <th>Sub-a</th> <th>Sub-area A2</th> <th>1</th> <th></th> <th>Sub-a</th> <th>Sub-area B1</th> <th></th> <th></th> <th>Sub-a</th> <th>Sub-area B2</th> <th></th> <th></th> <th></th> <th>Total</th> <th>al</th> <th></th> <th></th>	Total         Total $48$ $48$ $48$ $48$ $48$ $48$ $11$ $48$ $11$ $12$ $28$ $66$ $20$ $11$ $20$ $11$ $20$ <	Species		Total		Sub-a	Sub-area A1	本語	1.1.1	Sub-a	Sub-area A2	1		Sub-a	Sub-area B1			Sub-a	Sub-area B2				Total	al		
aix Titles         aix T	Accord conflore         Sub-trent         N <th></th> <th>Total</th> <th></th> <th></th> <th>48</th> <th></th> <th>The state</th> <th>19.11 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -</th> <th>48</th> <th>Succession.</th> <th></th> <th></th> <th>0</th> <th></th> <th></th> <th></th> <th>0</th> <th></th> <th>1</th> <th></th> <th></th> <th>96</th> <th></th> <th></th> <th></th>		Total			48		The state	19.11 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -	48	Succession.			0				0		1			96			
Accide confuse         Emails         16         1         1         7         1	Acadia confuso         自業限制         16         1         1         7         1         7         1	Exotic Trees			>	×	0	•	>	×	0	•	>	×	0	•	>	×	0	•		>		×	● ' ●	
Cassion ondorsion         膨胀洗明         16         4         1         4         6         2         1	Cassion ondora         医周振振明         16         7         1         6         2           Cassion ondoration         苦葉         1         6         2         1         0		台灣相思	16		1	1			7 1		Âp					1.1				13		81%)	m	1	(%6)
Dates         Dates         Is         1         8         1 <th< td=""><td>Dathergia odorifera         R##WE         16         7         1         8         1         1         1         1         9         1         1         9         1         1         9         1         1         9         1         1         9         1         1         9         1         1         9         1         1         9         1         1         9         1         1         1         9         1         1         9         1<td></td><td>節果決明</td><td>16</td><td></td><td>1</td><td>4</td><td></td><td></td><td></td><td>- State</td><td></td><td></td><td></td><td></td><td>2</td><td></td><td>12.0</td><td></td><td></td><td>10</td><td></td><td>(03%)</td><td>9</td><td>3</td><td>(%S)</td></td></th<>	Dathergia odorifera         R##WE         16         7         1         8         1         1         1         1         9         1         1         9         1         1         9         1         1         9         1         1         9         1         1         9         1         1         9         1         1         9         1         1         9         1         1         1         9         1         1         9         1 <td></td> <td>節果決明</td> <td>16</td> <td></td> <td>1</td> <td>4</td> <td></td> <td></td> <td></td> <td>- State</td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td>12.0</td> <td></td> <td></td> <td>10</td> <td></td> <td>(03%)</td> <td>9</td> <td>3</td> <td>(%S)</td>		節果決明	16		1	4				- State					2		12.0			10		(03%)	9	3	(%S)
Acactic unicultiformic         Explane         16         1         1         8         1         1         8         1         1         14         80%         2           Metric areclaracity         BFM         16         8         7         1         0         0         0         0         0         15         64%         2           Seno state         BFM         16         8         3         5         1         0         0         0         0         0         0         15         64%         1           Seno state         30b-total         5         3         5         0         1         0         <	Acacia auriculformic         Eigensitie         1         8         1         8         1         8         1         8         1         1         8         1         9         9         1         1         9         1         9         1         9         1         9         1         1         9         1         1         9         1         1         1         1         1         9         1 <th< td=""><td></td><td>降香黃檀</td><td>16</td><td>7</td><td>1</td><td></td><td></td><td></td><td>20</td><td></td><td>23</td><td></td><td></td><td></td><td>「「「</td><td>4</td><td></td><td></td><td></td><td>15</td><td></td><td>94%)</td><td>L</td><td>9)</td><td></td></th<>		降香黃檀	16	7	1				20		23				「「「	4				15		94%)	L	9)	
Metric aredurach         苦葉         16         8         7         1         16         100-bit         15         15         15         15         15         15         15         16         100-bit         16         100-bit         16         100-bit         16         16         100-bit         15         15         15         16         100-bit         16         17         16         16         17         16         16         16         17         16 <th16< th="">         &lt;</th16<>	Metric ared order         High ared order         Effection area         Bit of an area         Bit of area         Bit o		耳果相思	16		1	1	194		3.	12.00										14		88%)	2	(I	3%)
Sena simed         飯川米         16         8         7         1         1         15         15         15         15         13           Sub-total         56         35         3         1         0         1         0         0         0         0         3         58%         13           Ab<-total	Seno signed $\#/T$ 16         8         7         1         0         0         0         0         0         0         0         15         63-1         1           Sub-total         66         39         3         6         0         4         3         0         1         0         0         0         0         0         8         85-1         13           Rub         Stab-total         96         3         5         6         0         4         3         0         0         0         0         0         8         85-1         13           Rub         Total         Total<		若棟	16						8											16		(20001)	•	0)	(%)
Sub-total         96         3         3         6         0         44         3         0         1         0 </td <td>Sub-total         50         3         6         0         44         3         0         1         0         <!--</td--><td></td><td>鐵刀木</td><td>16</td><td></td><td></td><td></td><td></td><td>1000</td><td>7</td><td></td><td>1</td><td></td><td></td><td></td><td></td><td>and the second</td><td>1</td><td></td><td></td><td>15</td><td></td><td>94%)</td><td>1</td><td>(6</td><td>. (%)</td></td>	Sub-total         50         3         6         0         44         3         0         1         0 </td <td></td> <td>鐵刀木</td> <td>16</td> <td></td> <td></td> <td></td> <td></td> <td>1000</td> <td>7</td> <td></td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td>and the second</td> <td>1</td> <td></td> <td></td> <td>15</td> <td></td> <td>94%)</td> <td>1</td> <td>(6</td> <td>. (%)</td>		鐵刀木	16					1000	7		1					and the second	1			15		94%)	1	(6	. (%)
Total         Sub-area A1         Sub-area A2         Sub-area B1         Sub-area B1         Sub-area B1         Sub-area B2         Total           Total         720         720         720         720         720         720         2880         ×, 0, v           ematocephola Etype         240         59         1         1         82         5         3         60         ×         0         ×, 0, v           ematocephola Etype         240         58         1         1         82         3         60         ×         0         ×, 0, v           ematocephola Etype         240         58         1         1         82         3         60         ×         0	Total         Total         Sub-area A1         Sub-area A1         Sub-area A1         Sub-area A1         Sub-area B1         Sub-area B1         Sub-area B2         Total         Total         Total         Total         Total         Z20         Z20 <th< td=""><td></td><td>Sub-total</td><td>96</td><td></td><td></td><td></td><td></td><td>and a</td><td></td><td>0</td><td>Г</td><td>0</td><td></td><td></td><td></td><td></td><td></td><td>14 2-8</td><td>221-2</td><td></td><td>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</td><td>86%)</td><td>13</td><td>1</td><td>4%)</td></th<>		Sub-total	96					and a		0	Г	0						14 2-8	221-2		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	86%)	13	1	4%)
Total         Sub-area A1         Sub-area A1         Sub-area B2         Total         Zub-area B2         Total         X, O,	Total         Sub-area A1         Sub-area A1         Sub-area A2         Sub-area B1         Sub-area B2         Total	Shruhs Socialiture			0.401				1000			11.4			in the second	and a										5
Total         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         720         7         0         ×         ×         0 <td>Total         720         721         920         920         921</td> <td>Species</td> <td></td> <td>Total</td> <td></td> <td>Sub-a</td> <td>rea A1</td> <td></td> <td></td> <td>Sub-a</td> <td>rea A2</td> <td></td> <td></td> <td>Sub-a</td> <td>rrea B1</td> <td>Service B</td> <td></td> <td>Sub-a</td> <td>Irea B2</td> <td>The strength</td> <td></td> <td></td> <td>Tot</td> <td>le</td> <td>4</td> <td></td>	Total         720         721         920         920         921	Species		Total		Sub-a	rea A1			Sub-a	rea A2			Sub-a	rrea B1	Service B		Sub-a	Irea B2	The strength			Tot	le	4	
www.sinica $\tilde{M}$ $240$ $59$ $1$ $50$ $7$ $x$ $0$ $x$	www.striptical medicing patterns         大         ×         O         ×         Y         O         ×         Y         O         ×         Y         O         ×         Y         O         ×         Y         O         ×         Y         O         ×         Y         O         ×         Y         Y         O         ×         Y         O         ×         Y         Y         O         X					720	197 A.			720				720		19		720		1			2880	1		
Buxus sinica         護備         240         59         1         52         5         3         60         221         92%         1           Calliandra haematocephala         紙紙         240         58         1         1         58         23         98%         5           Hamelia patens         燕溪和         240         58         1         1         58         60         75         98%         5           Hamelia patens         燕溪本         240         58         1         1         58         60         75         98%         5           Homelia patens         漸淡本         240         58         1         1         42         14         4         51         9         160         75         98%         75           Pittosponue ops-coprae         漸淤本         240         58         1         42         14         16         22         60%         75           Pittosponue ops-coprae         漸淤水 (4)         24         3         3         44         16         1         220         95%         75           Pittosponue obira         海腦小         240         53         1         25         46	Buxus sinica         黄橋         240         59         1         50         9         1         52         5         3         60         21         921         921         5           Calilandro haematocephala         紙葉利         240         58         1         1         58         2         59         1         60         235         98%         5           Hamelia patens         燕葉利         240         58         1         1         44         7         9         165         9%%         75           Ipomoea pes-caprae         海灘牽牛         240         58         2         54         1         44         16         44         1         55         44         7         9         165         6%%         75           Pittosporum tobira         海桐         240         58         1         45         15         48         10         2         2         48         1         2 <t< td=""><td>shrubs</td><td></td><td></td><td>&gt;</td><td>×</td><td>1</td><td>•</td><td>&gt;</td><td>×</td><td>0</td><td>•</td><td>&gt;</td><td>×</td><td>0</td><td>4</td><td>&gt;</td><td>×</td><td>0</td><td>•</td><td></td><td>&gt;</td><td></td><td>×</td><td>• •</td><td></td></t<>	shrubs			>	×	1	•	>	×	0	•	>	×	0	4	>	×	0	•		>		×	• •	
Califiandra haematocephala         運搬         240         58         1         1         58         2         59         1         60         235         (58%)         5           Hamelia paters         漸漸         240         58         2         1         42         14         4         51         9         1         44         7         9         165         (69%)         75           Homelia paters         漸漸率         240         58         3         3         44         16         24         7         9         165         (69%)         75           Pittosporum tobira         漸漸         240         58         3         44         16         2         46         17         9         165         (69%)         75           Pittosporum tobira         漸漸         240         58         1         4         16         2         46         14         7         9         165         (69%)         75           Rhodohira         漸漸         240         58         1         55         4         1         55         54         65         65%         75           Rhodomyrus tomentosa         漸漸         24	Califiandra haematocephala 钰挑軟         240         58         1         1         58         2         59         1         60         235         68%         5           Hamelia patens         希美利         240         58         1         11         42         14         4         51         9         44         7         9         165         69%         75           Hamelia patens         希美利         240         28         21         11         42         14         51         9         165         69%         75           Indodeendron simsi<         紅壯騎         240         58         2         44         16         24         7         9         165         69%         75           Rhododendron simsi<         紅壯騎         240         58         1         1         55         1         56         1         220         95%         75           Rhodonergens         漸漸         240         58         1         1         55         1         2         2         2         2         6         2           Rhodonergens         漸漸         240         55         1         55         1         2		黄楊	240		1		01	Ω.		1		52		m		60				221		(92%)	19	(8	19/5
Hometia patters         希美利         240         28         21         11         42         14         51         9         14         7         9         165         (69%)         75           Pomoee pes-caprae         海灘牽牛         240         58         2         54         2         44         16         7         9         165         (69%)         75           Pomoee pes-caprae         海灘牽牛         240         58         3         3         44         16         2         46         14         7         9         165         (69%)         75           Pittosporum tobira         海桐         240         58         3         44         16         55         4         1         54         60         220         (9%)         48           Rhophiolepis indica         石瓶木         240         56         4         1         55         4         1         2         221         98%         48           Rhodomyrus tomentosa         桃金ీ         57         1         2         4         1         2         57         9         13         42         48           Ncobinepis indica         五瓶木         240	Hamelia patens         希美利         240         28         21         11         42         14         51         9         16         165<	52 Calliandra haematocephalu	7 紅绒球	240		L S	1		ũ	8	2		59		1		60		18		235		(98%)	S		10/2
pomoce pes-caprae         激素性         240         48         6         53         2         44         16         48         20         23%         20         48         20         20         20%         20% </td <td>pomoce pes-caprae         繊維性         240         48         6         58         2         44         16         220         220         220         230         20           Rhododendron sinsui         紅杜鵑         240         54         3         3         44         16         2         46         14         192         80%         48           Pittosporum tobira         海桐         240         56         45         15         1         55         4         1         54         6         212         88%         28           Rhophiolepis indica         石斑木         240         56         4         15         1         45         1         2         227         95%         28           Rhophiolepis indica         石斑木         240         56         4         1         2         54         6         221         88%         28         2         88%         28         2         231         96%         28         37           Rhophiolepis indica         万         240         53         1         2         54         5         2         37         2         37         2         36         37         2</td> <td>S3 Hamelia patens</td> <td>希美利</td> <td>240</td> <td></td> <td></td> <td></td> <td></td> <td>4</td> <td></td> <td>4</td> <td></td> <td>51</td> <td>6</td> <td>18</td> <td></td> <td>4</td> <td></td> <td></td> <td>6</td> <td>165</td> <td>and the second</td> <td>(%69)</td> <td>75</td> <td></td> <td>%T2</td>	pomoce pes-caprae         繊維性         240         48         6         58         2         44         16         220         220         220         230         20           Rhododendron sinsui         紅杜鵑         240         54         3         3         44         16         2         46         14         192         80%         48           Pittosporum tobira         海桐         240         56         45         15         1         55         4         1         54         6         212         88%         28           Rhophiolepis indica         石斑木         240         56         4         15         1         45         1         2         227         95%         28           Rhophiolepis indica         石斑木         240         56         4         1         2         54         6         221         88%         28         2         88%         28         2         231         96%         28         37           Rhophiolepis indica         万         240         53         1         2         54         5         2         37         2         37         2         36         37         2	S3 Hamelia patens	希美利	240					4		4		51	6	18		4			6	165	and the second	(%69)	75		%T2
Rhododendron sinsui         紅杜鵑         240         54         3         3         44         16         48         10         2         46         14         192         60%         48           Pittosporum tobira         海桐         240         58         2         45         15         55         4         1         54         6         212         88%         28           Rhophioleps indica         石斑木         240         55         4         1         55         4         1         212         88%         28         2           Rhodomyrus tomentosa         桃金娘         240         59         1         55         4         1         2         212         88%         28         3           Verbear aigida         顧熊馬糠華         240         53         3         1         4         55         2         3         231         95%         9           Verbear aigida         顧膨馬         240         53         3         14         2         54         5         3         231         95%         9         42           Verbear aigida         Espedeza formosa         美麗胡抜千         240         53         3	Rhododendron sinsui         紅杜鵑         240         54         3         3         44         16         48         10         2         46         14         192         60%         48           Pittosporum tobira         海桐         240         58         2         45         15         55         4         1         54         6         212         88%         28           Rhaphiolepis indica         石斑木         240         56         4         55         4         1         54         6         212         88%         28           Rhaphiolepis indica         石斑木         240         59         1         55         4         1         2         212         88%         28         2           Rhodomyrus tomentosa         桃金娘         240         59         1         55         2         3         42         233         95%         9         42           Verbear aigida         麗丽馬振葉         240         53         3         1         2         5         3         2         3         42         42         43         42         43         43         43         43         43         43         44		海灘牽牛	240					ŭ	8	2	1	54		4		60	1			220		(92%)	20	(8	(%)
Pittosporum tobira         海桐         240         58         2         45         15         5         4         1         54         6         212         088.43         28           Rhaphiolepis indica         石斑木         240         56         4         55         1         4         57         1         2         227         95%.4         13           Rhodomyrus tomentosa         桃金娘         240         59         1         55         1         2         57         1         2         231         95%.4         9           Verbena rigida         顧膨馬糠草         240         53         1         2         55         1         2         57         3         9         14         2         56         57         3         42           Verbena rigida         顧膨馬腌草         240         53         3         14         2         54         5         3         231         95%.4         42           Vitex regundo         黃黃前         28         1         3         4         4         55         1         10         55         3         231         95%.4         25           1         53         3<	Pittosporum tobira       海桐       240       58       2       45       15       55       4       1       54       6       212       0884b       28         Rhaphiolepis indica       石斑木       240       56       4       55       1       4       57       1       2       227       95%b       13         Rhaphiolepis indica       石斑木       240       56       4       1       55       1       2       57       1       2       231       95%b       9         Rhodomyrus tomentosa       桃金娘       240       59       1       2       54       5       57       3       231       95%b       9       42         Verbear rigida       頸脂馬糠草       240       53       3       44       5       1       10       55       2       3       42         Utex regundo       黃페       240       53       3       4       4       5       1       10       55       2       3       42         Vitex regundo       黃페       240       53       3       4       4       5       1       3       2       5       3       2       2       3		红杜鵑	240	1	3	ŝ	1	4	10			48	1	2	1	46	1			192		(80%)	48	2	(%0)
Rhaphiolepis indica         石紙木         240         56         4         55         1         4         57         1         2         227         95%         13           Rhodomyrtus tormentosa         桃金娘         240         59         1         57         3         1         2         57         1         2         2         2         13         96%         9           Rhodomyrtus tormentosa         輸金娘         240         59         1         55         3         21         35%         231         96%         9           Verbena rigida         頭脂馬糠草         240         53         3         4         1         55         5         3         231         96%         9         42           Verbena rigida         顧膨馬糠草         240         52         3         4         1         52         5         3         233         85%         37           1         transitiona         黃漸         2         4         5         1         10         55         3         20%         37           1         transitiona         mmetodia         j         4         5         5         3         25 <t< td=""><td>Rhaphiolepis indica         石紙木         240         56         4         55         1         4         57         1         227         95%         13           Rhodomyrus tomentosa         桃金娘         240         59         1         57         3         2         3         9         14         2         57         1         2         2         2         3         42         9         9         14         2         54         57         3         231         96%         9         42         1         10         55         2         3         42         42         42         1         10         55         2         3         42         42         42         1         10         55         2         3         42         42         42         42         42         42         42         42         42         42         42         42         42         55%         37         2         37         2         37         25         37         2         37         25         37         25         37         25         37         25         37         25         37         25         37         25</td><td></td><td>海桐</td><td>240</td><td></td><td></td><td></td><td></td><td>4</td><td></td><td>ALC: NO</td><td></td><td>55</td><td></td><td>1</td><td></td><td>54</td><td>9</td><td>15</td><td></td><td>212</td><td></td><td>(88%)</td><td>28</td><td></td><td>12%</td></t<>	Rhaphiolepis indica         石紙木         240         56         4         55         1         4         57         1         227         95%         13           Rhodomyrus tomentosa         桃金娘         240         59         1         57         3         2         3         9         14         2         57         1         2         2         2         3         42         9         9         14         2         54         57         3         231         96%         9         42         1         10         55         2         3         42         42         42         1         10         55         2         3         42         42         42         1         10         55         2         3         42         42         42         42         42         42         42         42         42         42         42         42         42         55%         37         2         37         2         37         25         37         2         37         25         37         25         37         25         37         25         37         25         37         25         37         25		海桐	240					4		ALC: NO		55		1		54	9	15		212		(88%)	28		12%
Rhodomyrtus tormentosa         総金娘         240         59         1         58         2         57         3         231         96%         9           Verbena rigida         顕脈馬鞭草         240         59         1         28         2         4         55         2         3         198         (83%)         42           Verbena rigida         顕脈馬鞭草         240         53         3         14         2         54         2         4         55         3         198         (83%)         42           Vitex negundo         黃漸前         240         53         3         44         5         1         10         55         3         203         (85%)         37           Vitex negundo         黃漸前         240         53         1         56         5         5         5         5         5         3         210         18%         37           Vitex notundifolia         m葉菱m         240         5         1         55         5         3         210         18%         30	Rhodomyrtus tormentosa         総金娘         240         59         1         58         2         57         3         231         96%         9           Verbena rigida         顕脈馬鞭草         240         59         1         25         5         4         55         2         3         198         (8.3%)         42           Verbena rigida         癲腦蟲被子         240         52         3         44         5         1         10         55         2         3         42           Verbena rigida         蔥脂油         240         52         3         44         5         1         10         55         2         3         42         42           Vitex regundo         蔥漸         240         53         3         44         5         1         10         55         2         3         42         42           Vitex rotundifolia         ធَ漸ঊ         3         4         56         5         5         5         5         5         5         3         210         86%         30           Vitex rotundifolia         ធ្>         3         5         5         5         5         5         5         5 <td></td> <td>石斑木</td> <td>240</td> <td>R.</td> <td></td> <td>4</td> <td></td> <td>ŝ</td> <td>6</td> <td>1</td> <td></td> <td>55</td> <td>1</td> <td>4</td> <td></td> <td>57</td> <td>1</td> <td>1</td> <td>2</td> <td>227</td> <td></td> <td>(95%)</td> <td>13</td> <td>(5</td> <td>(%)</td>		石斑木	240	R.		4		ŝ	6	1		55	1	4		57	1	1	2	227		(95%)	13	(5	(%)
Verbena rigida         顕脈馬鞭草         240         54         6         0         35         9         14         2         54         2         4         55         2         3         198         (8.3%)         42           Lespedeza formosa         美麗胡枝子         240         52         3         4         1         52         6         2         44         5         1         10         55         3         203         (8.5%)         37           Vitex negundo         黃荊荊         240         53         3         4         48         6         6         56         1         3         2         2         2         2         37         235         37         25         3         2         2         37         25         50%         25         37         25         50%         25         30%         25         37         210         18%         30           Vitex rotundifolio         軍菜菱揃         240         5         1         57         5         31         210         18%         30	Verbena rigida         顯脈馬鞭草         240         54         6         0         35         9         14         2         54         2         4         55         2         3         198         (8.3%)         42           Lespedeza formosa         漢麗胡枝子         240         52         3         44         5         1         10         55         3         203         (85%)         37           Vitex regundo         黃漸         240         53         3         44         5         1         10         55         3         2         203         (85%)         37           Vitex rotundifolia         軍乘養漸         240         5         1         56         1         3         28         2         90%         25           Vitex rotundifolia         軍乘養漸         240         54         5         1         57         5         31         210         88%         30           Sub-total         2880         633         52         34         15         16         16         16         16         16         16         16         18%         351		桃金娘	240		1		10	S		1		58		2		57		Service Service	3	231		(96%)	6	4)	(%)
Lespedeza formosa 美麗胡枝子 <b>240</b> 52 3 4 1 52 6 2 44 5 1 10 55 3 2 <b>203</b> 65% <b>37</b> Vitex negundo 黃荊 <b>240</b> 53 3 4 48 6 6 56 1 3 58 2 <b>215</b> 90% <b>25</b> Vitex rotundifolia 單葉蔓荊 <b>240</b> 54 5 1 50 5 5 5 5 5 5 5 5 5 3 1 52 5 3 <b>210</b> 88% <b>30</b>	Lespedeza formosa 美麗胡枝子 240 52 3 4 1 52 6 2 44 5 1 10 55 3 2 203 65% 37 3 7 7 <i>Vitex negundo</i> 黃艄 240 53 3 4 4 8 6 6 56 1 3 58 2 2 15 90% 25 7 7 7 7 7 7 7 7 7 8 7 7 7 7 8 7 7 7 7		顯脈馬鞭草	240			1.2.2		0 3		14	2			4	1111	55	14	<b>C</b> <sup>1</sup>	3	198		(83%)	42		13%
Vitex negundo   黄荆 <b>240</b> 53 3 4   48 6 6 56 1 3 58 2 <b>215</b> 50% 25 Vitex rotundifolia   單葉藝荊 240 54 5 1 50 5 5 5 5 5 5 5 1 52 5 3 210 88% 30	Vitex negundo 黃荊 240 53 3 4 48 6 6 56 1 3 58 2 15 90% 25 75 17 10 11 11 11 11 11 11 11 11 11 11 11 11		美麗胡枝子	240					1 5.		2		44		L	10				2	203		(85%)	37		
Vitex rotundifolia   單葉藝荊   240 54   5   1   50 51 51 51   54   5   1   52   5   3     210   88%   30	Vitex rotundifolia   單葉藝拍 240 54 5 1 50 5 5 55 55 5 5 5 5 5 1 210 (88%) 30 30 Vitex rotundifolia   單葉藝拍 240 53 52 34 1 598 83 37 2 640 44 26 10 658 40 22 0 2529 (88%) 351		減期	240	作品				4		9		56		1		58				215		(%06)	25	E	(%01
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LEGEND

Acceptable
 Dead / Poor health
 Empty planting pit
 Wrong species

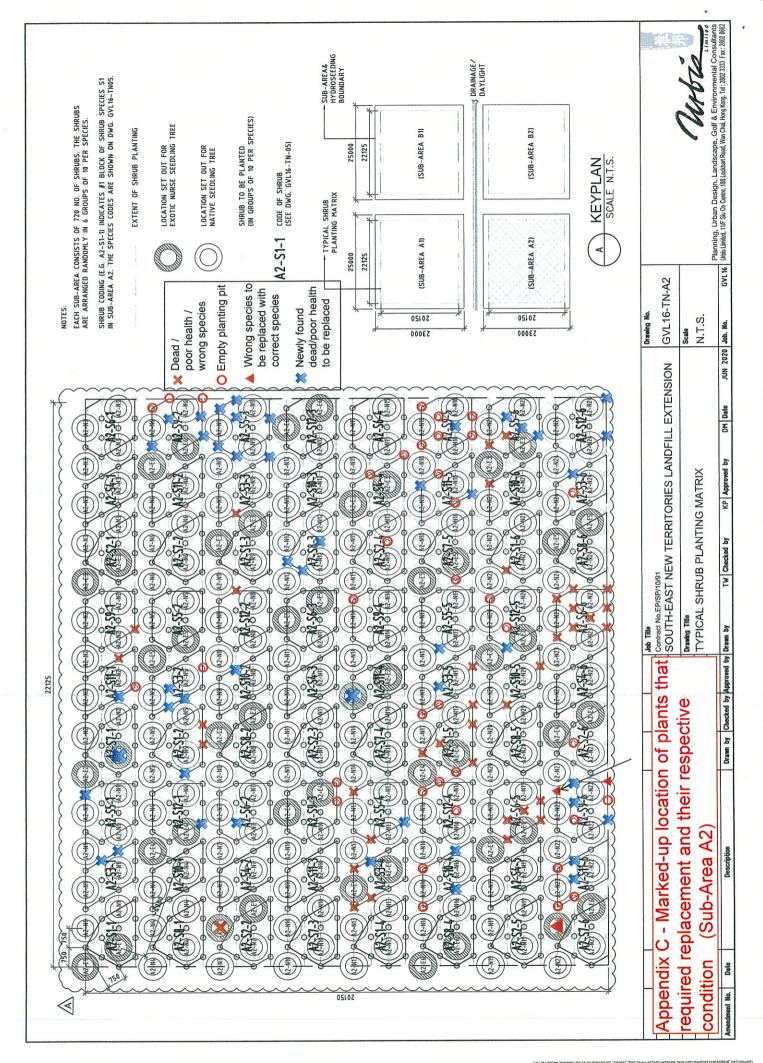
10

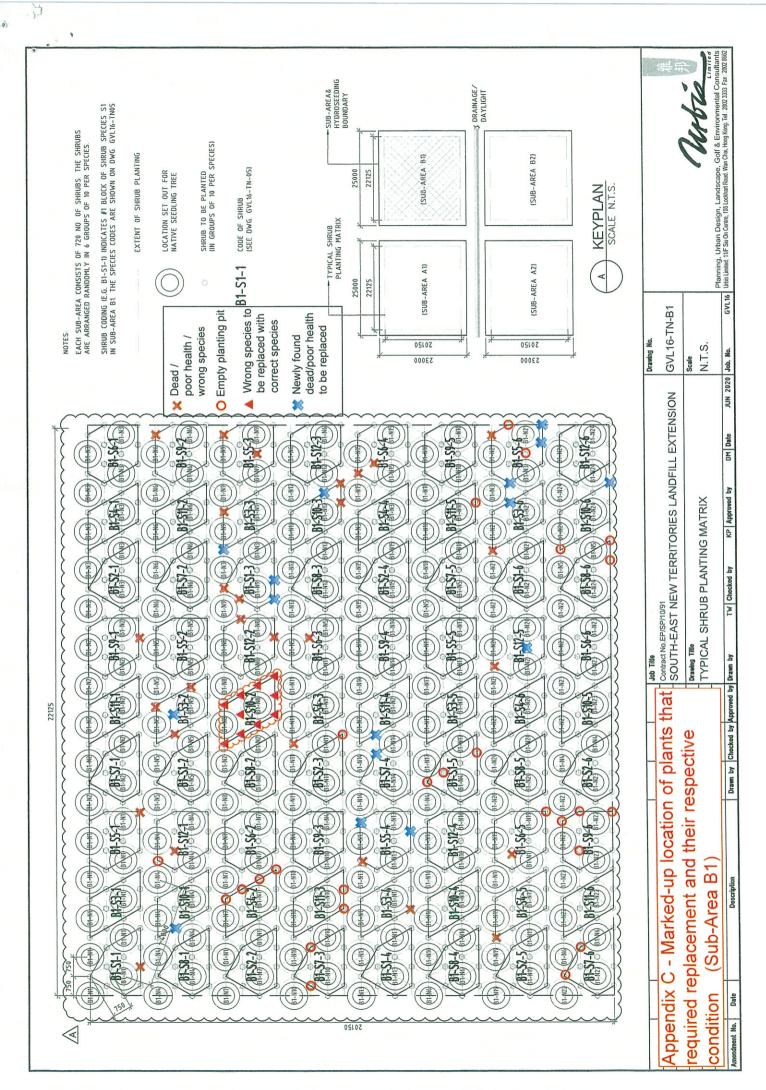
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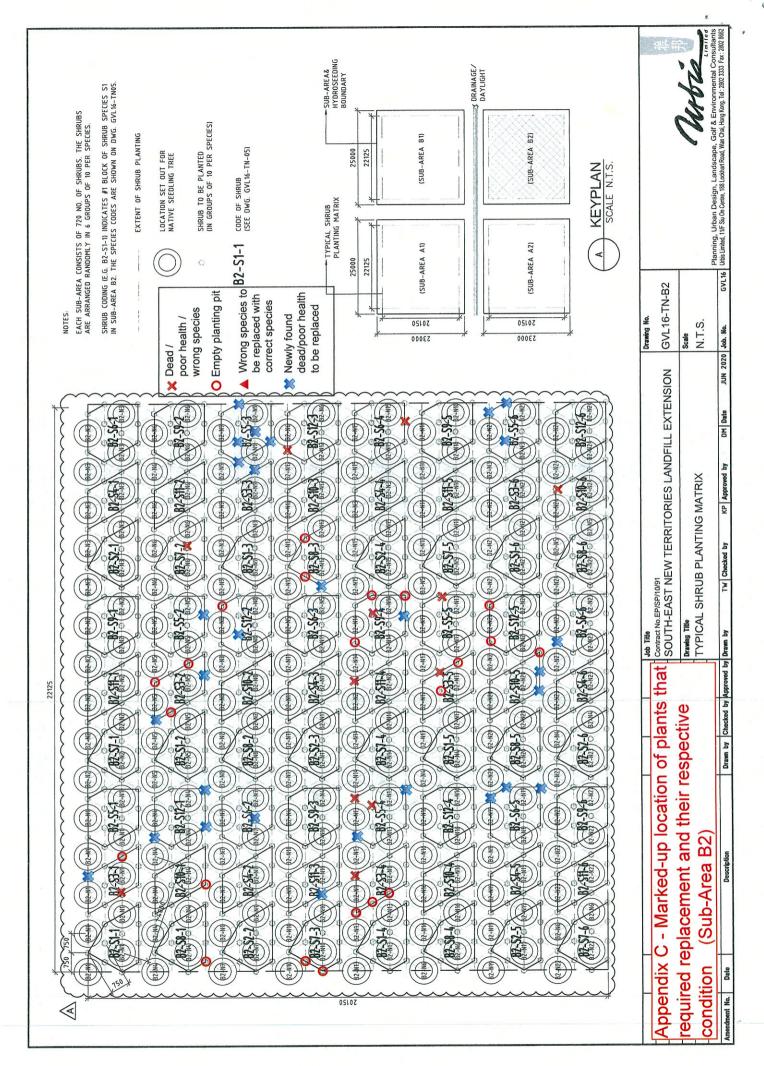
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Project
Contract No. EP/SP/10/91
South East New Territories Landfill Extension (SENTX)
Trial Nursery

Job No. GVL16

Date: 28 December 2020	Report No.: 8	Present: URBIS : Anny LI, Kevin SIN
Photos Taken: Yes	Weather: Sunny and windy	

ltem	Notes	Action
1.1	<ul> <li>The conditions of the planted seedlings and the general set-up of the Trial Nursery were inspected on 28 Nov 2020. This report records all notable observation and serves as the fourth monthly inspection report for the plants during the establishment period.</li> <li>Supplement information is provided in Appendices: <ul> <li>Appendix A – Photo record;</li> <li>Appendix B – Detail breakdown of planting statistics by locations and species;</li> <li>Appendix C – Marked-up location of plants that required replacement and their respective condition (newly found dead/poor health plants during this inspection are marked-up in a different colour for ease of reference);</li> </ul> </li> </ul>	Noted
1.2	<ul> <li>While the primary objective of the Trial Nursery is to review suitability of different native tree species, the planting trial contains both exotic nurse species and native species.</li> <li>Planting programmes and monitoring to be carried out are summarised as follows: <ul> <li>Exotic tree species and shrubs are planted in the 1<sup>st</sup> year of the setup of Trial Nursery</li> <li>Monthly inspections to assess the maintenance needs and replacement of failed plants;</li> <li>Quarterly trial monitoring and data collection to capture plant performances.</li> </ul> </li> <li>Native tree species are planted in the 2<sup>nd</sup> year of the setup of Trial Nursery <ul> <li>Monthly inspections to assess the maintenance needs;</li> <li>Monthly trial monitoring and data collection to capture *plant performances, especially any plant mortality in early stage of establishment.</li> </ul> </li> <li>* It shall be noted that as per the agreed Monitoring Methodology for the Planting Trials, only failing or failed exotic trees and shrubs will be remediated or replaced, but failed native tree plants will not.</li> </ul>	Noted
1.3	<ul> <li>The following timeline briefly summarises the set-up and planting processes of the Trial Nursery:</li> <li>From March to May 2020, the general layout of the Trial Nursery and hydroseeding was done by GVL;</li> <li>From June to August 2020, the planting of exotic nurse tree seedlings and shrub seedlings was done by the soft landscape contractor – Hong Kong Landscaping Company Limited (hereafter referred to as HKL);</li> <li>As of Record of Site Inspection No. 4 (dated 12, 14 August 2020), the planting of exotic nurse tree seedlings and shrub seedlings was considered satisfactory and substantially completed. The commencement of the establishment period for the planted seedlings of exotic nurse trees and shrubs followed.</li> </ul>	Noted



Project	Job No.
Contract No. EP/SP/10/91	GVL16
South East New Territories Landfill Extension (SENTX)	
Trial Nursery	

em	Notes			Action
4	<ul> <li>HKL shall take note of the observed defects on planted seedlings and rectify them in due course. It is acknowledged that replacement is not ideal during winter/dry season. The contractor shall keep record of the previous and this report and prepare to start sourcing quality stocks for replacement before commencement of spring.</li> <li>A proposal of plant replacement indicating key date of the replacement programme shall be submitted for URBIS review before the end of January.</li> </ul>			
5	Several deciduous species were observed to have defoliated (e.g. <i>Melia azedarach</i> (E5), <i>Lespedeza formosa</i> (S10), <i>Vitex negundo</i> (S11)) Majority of the foliage were turning yellowish. The branches felt spongy to the touch, URB considered the overall health condition of the species to be fair and there is no immediate concern for replacement.			
1	Photos: 05, 18			
6	There is general o The worst 5 shru		h /increased death across the shrub species. nest increased in death/ worse health plant descending order in below.	Noted
	Ranking (in descending order)	Species Name	Increased in number of death/ worse health plants on 28 <sup>th</sup> December 2020 (compared to 27 <sup>th</sup> November 2020)	
		Buxus sinica (S1)	+90	
	1st			
	2 <sup>nd</sup>	Hamelia patens (S3)	+24	
			+24 +24	
	2 <sup>nd</sup>	Hamelia patens (S3)		
	2nd 2nd	Hamelia patens (S3) Rhododendron simsii (S5)	+24	
	2nd 2nd 3rd 4th A significant numb <i>sinica</i> (S1) during had died in a sub- During November health is <i>Rhodode</i>	Hamelia patens (S3) Rhododendron simsii (S5) Vitex rotundifolia (S12) Vitex negundo (S11) Der of increased in dead plants this inspection. It is not uncor area. inspection, The shrub species v endron simsii (S5). In Decemb	+24 +17	



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Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery

ltem	Notes					
1.7	Shrubs species with good/fair health performance           The current best 5 shrubs species with good performance (in terms of good/fair health plants on site) are in the descending order in below.					
	Ranking (in descending order)	Species Name	Number of good/fair health plants up to 28 <sup>th</sup> December 2020			
	1 st	Calliandra haematocephala (S2)	234			
	2 <sup>nd</sup>	Rhodomyrtus tomentosa (S8)	228			
	3rd	Rhaphiolepis indica (S7)	225			
	4 <sup>th</sup>	lpomoea pes-caprae (S4)	212			
	5 <sup>th</sup>	Pittosporum tobira (S6)	209			
	after a significant its ranking from pr	number of <i>Buxus sinica</i> plants were evious top 4 of November 2020.	tering the top 5 during December 2020, found dead in December and dropped			
1.8	after a significant its ranking from pr Photos: 08, 12, 1 Performance of ex It shall be noted th There are 2 nos. siamea plants wer	number of <i>Buxus sinica</i> plants were evious top 4 of November 2020. 5, 10 and 14 <u>sotic tree seedlings</u> nat the performance of exotic tree see more <i>Cassia nodosa</i> , 1 no. more <i>Da</i> re found to be dead/ in poor health ar	found dead in December and dropped edlings is relatively stable. Nevertheless, <i>Ibergia odorifera</i> and 1 no. more <i>Senna</i> and shall be replaced respectively.	Noted		
1.8	after a significant its ranking from pr Photos: 08, 12, 1 Performance of ex It shall be noted th There are 2 nos. siamea plants wer The current perfor	number of <i>Buxus sinica</i> plants were evious top 4 of November 2020. 5, 10 and 14 <u>sotic tree seedlings</u> nat the performance of exotic tree see more <i>Cassia nodosa</i> , 1 no. more <i>Da</i> re found to be dead/ in poor health ar	found dead in December and dropped edlings is relatively stable. Nevertheless, <i>Ibergia odorifera</i> and 1 no. more <i>Senna</i>	Noted		
1.8	after a significant its ranking from pr Photos: 08, 12, 1 Performance of ex It shall be noted th There are 2 nos. siamea plants wer The current perfor	number of <i>Buxus sinica</i> plants were evious top 4 of November 2020. 5, 10 and 14 <u>cotic tree seedlings</u> nat the performance of exotic tree see more <i>Cassia nodosa</i> , 1 no. more <i>Da</i> re found to be dead/ in poor health ar mance (in terms of number of good/	found dead in December and dropped edlings is relatively stable. Nevertheless, <i>Ibergia odorifera</i> and 1 no. more <i>Senna</i> and shall be replaced respectively.	Noted		
1.8	after a significant its ranking from pr Photos: 08, 12, 1 Performance of ex It shall be noted th There are 2 nos. siamea plants wer The current perfor tree species are ir Ranking (in descending	number of <i>Buxus sinica</i> plants were evious top 4 of November 2020. 5, 10 and 14 <u>xotic tree seedlings</u> nat the performance of exotic tree see more <i>Cassia nodosa</i> , 1 no. more <i>Da</i> re found to be dead/ in poor health ar mance (in terms of number of good/ in the descending order in below.	found dead in December and dropped edlings is relatively stable. Nevertheless, <i>Ibergia odorifera</i> and 1 no. more <i>Senna</i> ad shall be replaced respectively. fair health plants on site) of these exotic Number of good/fair health plants up	Noted		
1.8	after a significant its ranking from pr Photos: 08, 12, 1 Performance of ex It shall be noted th There are 2 nos. <i>siamea</i> plants wer The current perfor tree species are ir Ranking (in descending order)	number of <i>Buxus sinica</i> plants were evious top 4 of November 2020. 5, 10 and 14 <u>xotic tree seedlings</u> nat the performance of exotic tree see more <i>Cassia nodosa</i> , 1 no. more <i>Da</i> re found to be dead/ in poor health ar rmance (in terms of number of good/ n the descending order in below. Species Name	found dead in December and dropped edlings is relatively stable. Nevertheless, <i>Ibergia odorifera</i> and 1 no. more <i>Senna</i> ad shall be replaced respectively. fair health plants on site) of these exotic Number of good/fair health plants up to 28 <sup>th</sup> December 2020	Noted		
.8	after a significant its ranking from pr Photos: 08, 12, 1 Performance of ex It shall be noted th There are 2 nos. <i>siamea</i> plants wer The current perfor tree species are ir Ranking (in descending order) 1 <sup>st</sup>	number of <i>Buxus sinica</i> plants were evious top 4 of November 2020. 5, 10 and 14 <u>sotic tree seedlings</u> nat the performance of exotic tree see more <i>Cassia nodosa</i> , 1 no. more <i>Da</i> re found to be dead/ in poor health ar mance (in terms of number of good/ in the descending order in below. Species Name <i>Melia azedarach</i> (E5)	found dead in December and dropped edlings is relatively stable. Nevertheless, <i>lbergia odorifera</i> and 1 no. more <i>Senna</i> ad shall be replaced respectively. fair health plants on site) of these exotic Number of good/fair health plants up to 28 <sup>th</sup> December 2020 16	Noted		
1.8	after a significant its ranking from pr Photos: 08, 12, 1 Performance of ex It shall be noted th There are 2 nos. <i>siamea</i> plants wer The current perfor tree species are ir Ranking (in descending order) 1 <sup>st</sup> 2 <sup>nd</sup>	number of <i>Buxus sinica</i> plants were evious top 4 of November 2020. 5, 10 and 14 <u>xotic tree seedlings</u> nat the performance of exotic tree see more <i>Cassia nodosa</i> , 1 no. more <i>Da</i> re found to be dead/ in poor health ar rmance (in terms of number of good/ n the descending order in below. Species Name <u>Melia azedarach (E5)</u> <i>Dalbergia odorifera</i> (E3)	found dead in December and dropped edlings is relatively stable. Nevertheless, <i>Ibergia odorifera</i> and 1 no. more <i>Senna</i> ad shall be replaced respectively. fair health plants on site) of these exotic Number of good/fair health plants up to 28 <sup>th</sup> December 2020 16 14	Noted		
1.8	after a significant its ranking from pr Photos: 08, 12, 1 Performance of ex It shall be noted th There are 2 nos. It siamea plants wer The current perfor tree species are ir Ranking (in descending order) 1 <sup>st</sup> 2 <sup>nd</sup> 2 <sup>nd</sup>	number of <i>Buxus sinica</i> plants were evious top 4 of November 2020. 5, 10 and 14 <u>sotic tree seedlings</u> nat the performance of exotic tree see more <i>Cassia nodosa</i> , 1 no. more <i>Da</i> re found to be dead/ in poor health ar mance (in terms of number of good/ in the descending order in below. Species Name <u>Melia azedarach (E5)</u> Dalbergia odorifera (E3) Acacia auriculiformis (E4)	found dead in December and dropped edlings is relatively stable. Nevertheless, <i>lbergia odorifera</i> and 1 no. more <i>Senna</i> ad shall be replaced respectively. fair health plants on site) of these exotic Number of good/fair health plants up to 28 <sup>th</sup> December 2020 16 14 14	Noted		

Job No. GVL16

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Project	Job No.
Contract No. EP/SP/10/91	GVL16
South East New Territories Landfill Extension (SENTX)	an a
Trial Nursery	

N	Notes							Action
The conditions of seedlings in Sub-Area A1 are summarised below: Planted seedlings in Sub-Area A1							GVL/ Hł	
li		Exoti	c Trees	Shi	rubs	Тс	otal	
	Total		48	7	20	7	68	
	Acceptable							
á	<ul> <li>a) In fair conditions / seedlings to be monitored</li> </ul>	36	(75%)	519	(72%)	555	(72%)	
	Rejected		신문 영화					
	<ul> <li>b) In very poor conditions / dead seedlings to be replaced</li> </ul>	2	(4%)	148	(21%)	150	(20%)	
	c) Empty pits / seedlings not planted	10	(21%)	52	(7%)	62	(8%)	s - 20 P.
	<ul> <li>Seedlings of wrong species to be replaced</li> </ul>	0	(0%)	1	(0%)	1	(0%)	
r F F	In total, the Contractor shall replace / cor course for Sub-area A1, compared to 96 plants in sub-area A1. Refer to Appendix C for the Marked-up I respective condition. As stated in item 1.4, HKL shall submit URBIS review before the end of January.	nos. fr	om last mo	onth, tha that req	at represe	nts <b>28%</b> acemen	of overall t and their	GVL/ HI
C F F L L	course for Sub-area A1, compared to 96 plants in sub-area A1. Refer to Appendix C for the Marked-up I respective condition. As stated in item 1.4, HKL shall submit URBIS review before the end of January. <b>Photos: 21</b> The conditions of seedlings in Sub-Area A	nos. frocation a deta	om last mo of plants iled propo	onth, tha that req sal rega	at represe	nts <b>28%</b> acemen	of overall t and their	GVL/ HI GVL/ HI
C F F L L	course for Sub-area A1, compared to 96 plants in sub-area A1. Refer to Appendix C for the Marked-up I respective condition. As stated in item 1.4, HKL shall submit URBIS review before the end of January. <b>Photos: 21</b>	nos. fr ocation a deta A2 are s	om last mo of plants iled propo	onth, tha that req sal rega d below	at represe	nts 28%	of overall t and their	
C F F I I I I I I I I I I I I I I I I I	course for Sub-area A1, compared to 96 plants in sub-area A1. Refer to Appendix C for the Marked-up I respective condition. As stated in item 1.4, HKL shall submit URBIS review before the end of January. <b>Photos: 21</b> The conditions of seedlings in Sub-Area A	nos. fr ocation a deta A2 are s Exoti	om last mo of plants iled propos	onth, tha that req sal rega d below <b>Sh</b>	at represe	nts 28%	of overall t and their cement for	
	course for Sub-area A1, compared to 96 plants in sub-area A1. Refer to Appendix C for the Marked-up I respective condition. As stated in item 1.4, HKL shall submit URBIS review before the end of January. <b>Photos: 21</b> The conditions of seedlings in Sub-Area A <b>Planted seedlings in Sub-Area A2</b>	nos. fr ocation a deta A2 are s Exoti	om last mo of plants iled propos summarise <b>c Trees</b>	onth, tha that req sal rega d below <b>Sh</b>	at represe uired repla arding plar	nts 28%	of overall t and their cement for	
	course for Sub-area A1, compared to 96 plants in sub-area A1. Refer to Appendix C for the Marked-up I respective condition. As stated in item 1.4, HKL shall submit URBIS review before the end of January. <b>Photos: 21</b> The conditions of seedlings in Sub-Area A <b>Planted seedlings in Sub-Area A2</b>	nos. fr ocation a deta A2 are s Exoti	om last mo of plants iled propos summarise <b>c Trees</b>	onth, tha that req sal rega d below <b>Sh</b>	at represe uired repla arding plar	nts 28%	of overall t and their cement for	
	course for Sub-area A1, compared to 96 plants in sub-area A1. Refer to Appendix C for the Marked-up I respective condition. As stated in item 1.4, HKL shall submit URBIS review before the end of January. <b>Photos: 21</b> The conditions of seedlings in Sub-Area A2 <b>Planted seedlings in Sub-Area A2</b> <b>Total</b> <b>Acceptable</b> a) In fair conditions / seedlings to be	nos. fr ocation a deta A2 are s Exoti	om last mo of plants iled propos summarise c Trees 48	onth, tha that req sal rega d below Sh 7	at represe uired repla arding plar : rubs '20	nts 28% acemen nt replac	of overall t and their cement for otal	
	course for Sub-area A1, compared to 96 plants in sub-area A1. Refer to Appendix C for the Marked-up I respective condition. As stated in item 1.4, HKL shall submit URBIS review before the end of January. Photos: 21 The conditions of seedlings in Sub-Area A Planted seedlings in Sub-Area A2 Total Acceptable a) In fair conditions / seedlings to be monitored	nos. fr ocation a deta A2 are s Exoti	om last mo of plants iled propos summarise c Trees 48	onth, tha that req sal rega d below Sh 7	at represe uired repla arding plar : rubs '20	nts 28% acemen nt replac	of overall t and their cement for otal	
	course for Sub-area A1, compared to 96 plants in sub-area A1. Refer to Appendix C for the Marked-up I respective condition. As stated in item 1.4, HKL shall submit URBIS review before the end of January. <b>Photos: 21</b> The conditions of seedlings in Sub-Area A <b>Planted seedlings in Sub-Area A2</b> <b>Total</b> <b>Acceptable</b> a) In fair conditions / seedlings to be monitored <b>Rejected</b> b) In very poor conditions / dead	nos. fr ocation a deta A2 are s Exoti	om last mo of plants iled propos summarise c Trees 48 (90%)	onth, tha that req sal rega d below 7 562	at represe uired repla arding plar rubs 20 (78%)	nts 28% acemen ht replac 7 605	of overall t and their cement for <b>otal</b> <b>/68</b> (79%)	

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Project	Job No.
Contract No. EP/SP/10/91	GVL16
South East New Territories Landfill Extension (SENTX)	
Trial Nursery	

ltem	Notes			Action		
	In total, the Contractor shall replace / complete the plantic course for Sub-area A2, compared to 126 nos. from last plants in sub-area A2. Refer to Appendix C for the Marked-up location of plant respective condition. As stated in item 1.4, HKL shall submit a detailed prop URBIS review before the end of January.	month, that represe s that required repl	nts 21% of overall acement and their	GVL/ HKL		
	Photos: 22 - 23					
1.11	The conditions of seedlings in Sub-Area B1 are summaris Planted seedlings in Sub-Area B1	sed below:		GVL/ HKL		
		Shrubs	Total			
	Total 720 720					
	Acceptable					
	a) In fair conditions / seedlings to be monitored	625 (87%)	625 (87%)			
	Rejected					
	<ul> <li>b) In very poor conditions / dead seedlings to be replaced</li> </ul>	59 (8%)	59 (8%)			
	c) Empty pits / seedlings not planted	26 (4%)	26 (4%)			
	d) Seedlings of wrong species to be replaced	10 (1%)	10 (1%)			
	In total, the Contractor shall replace / complete the planting of <b>95 nos.</b> rejected plants in due course for Sub-area B1, compared to 80 nos. from last month, that represents <b>13%</b> of overall plants in sub-area B1.					
	Refer to Appendix C for the Marked-up location of plants that required replacement and their respective condition					
	As stated in item 1.4, HKL shall submit a detailed prop URBIS review before the end of January.	oosal regarding pla	ant replacement for	GVL/ HKL		
	Photos: 24 - 25					



Record of Site Inspection No. 8	准
	Nurbis 1
Project	Job No.
Project Contract No. EP/SP/10/91	Job No. <b>GVL16</b>

	Notes					Action
1.12	The conditions of seedlings in Sub-Area B2 are summarised below: Planted seedlings in Sub-Area B2					GVL/ HKL
		Sh	rubs	Total		
	Total	720 720		20		
	Acceptable					
	a) In fair conditions / seedlings to be monitored <b>Rejected</b>	627	(87%)	627	(87%)	
	b) In very poor conditions / dead seedlings to be replaced	73	(10%)	73	(10%)	
	c) Empty pits / seedlings not planted	20	(3%)	20	(3%)	
	d) Seedlings of wrong species to be replaced	0	(0%)	0	(0%)	
	Refer to Appendix C for the Marked-up location of plants that required replacement and their respective condition. As stated in item 1.4, HKL shall submit a detailed proposal regarding plant replacement for URBIS review before the end of January.					GVL/ HKL
1.13	Photos: 26 - 27					5 - 1 <sup>0</sup> - 1 <sup>0</sup>
1.13	Photos: 26 - 27 The entrance gates of the Sub-Areas A1, A2, B1 and collapsed.	B2 of th	e Trial Nu	irsery a	re partially	GVL
1.13	The entrance gates of the Sub-Areas A1, A2, B1 and	B2 of th	e Trial Nu	irsery a	re partially	GVL
1.13	The entrance gates of the Sub-Areas A1, A2, B1 and collapsed.					GVL
	The entrance gates of the Sub-Areas A1, A2, B1 and collapsed.         The collapsed entrance gates shall be repaired.         The planting locations of all S9 seedlings ( <i>Stachytarpulater Stachytarpulater)</i>	heta jam swappin	<i>aicensis</i> ∦ g of these	<sub>叚馬鞭</sub> two sp	) and S11 becies was	
	<ul> <li>The entrance gates of the Sub-Areas A1, A2, B1 and collapsed.</li> <li>The collapsed entrance gates shall be repaired.</li> <li>The planting locations of all S9 seedlings (<i>Stachytarph</i> seedlings (<i>Vitex negundo</i> 黃荊) have swapped.</li> <li>As mentioned in Record of Site Inspection No. 3, the</li> </ul>	heta jam swappin port have <b>2020):</b> ngs were	aicensis ∦ g of these e been upd flowering,	段馬鞭 two sp lated ac	) and S11 becies was cordingly.	



Project	Job No.
Contract No. EP/SP/10/91	GVL16
South East New Territories Landfill Extension (SENTX)	
Trial Nursery	- 10

ltem	Notes	Action
	in ecological and botanical aspects. They also have similar requirements for growth and possibly a similar life cycle. Based on such similarity, we suggest the planted <i>Verbena rigida</i> (顯脈馬鞭草) could be retained on-site for onward monitoring in Trial Nursery; but if <i>Verbena rigida</i> (顯脈馬鞭草) significantly fails later during the establishment period, the original species <i>Stachytarpheta jamaicensis</i> (假馬鞭) shall be planted.	

Prepared by:

Kevin SIN

Certified Arborist / Horticulturist

Approved by: David Morkel Director

APPENDIX A

Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery Job No.: GVL16 Inspection Date: 28 December 2020





APPENDIX A



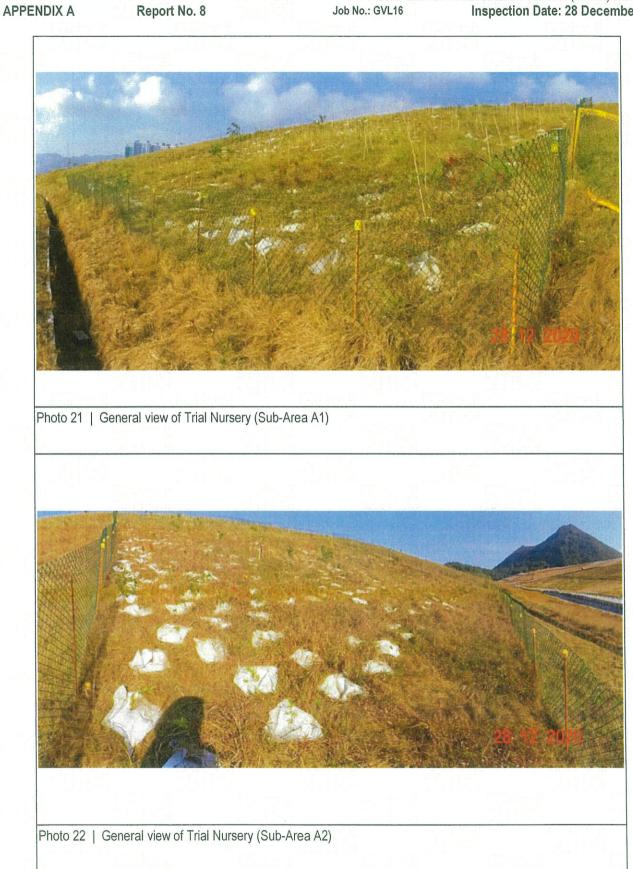


APPENDIX A

Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery Job No.: GVL16 Inspection Date: 28 December 2020

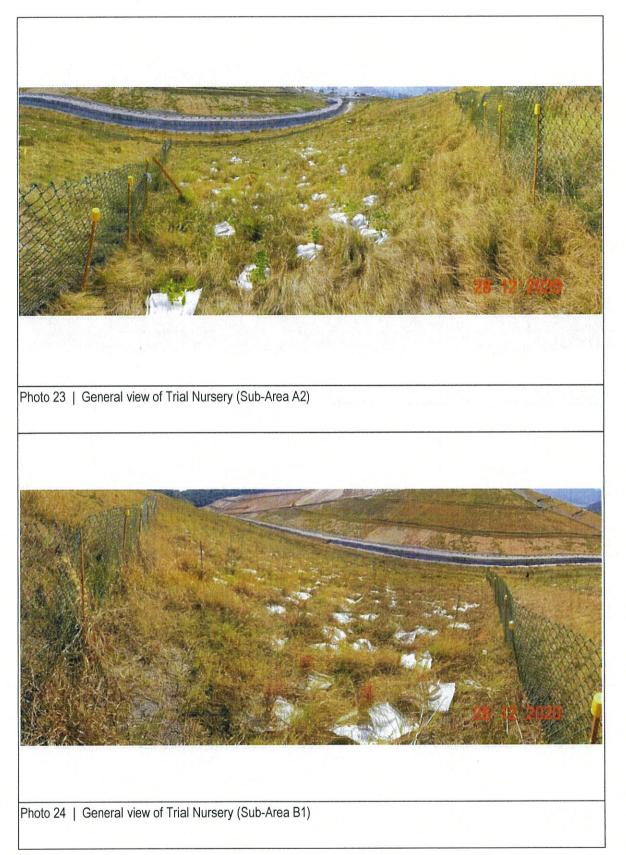


#### Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery Job No.: GVL16 Inspection Date: 28 December 2020



APPENDIX A

Report No. 8



Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery APPENDIX A Report No. 8 Job No.: GVL16 Inspection Date: 28 December 2020

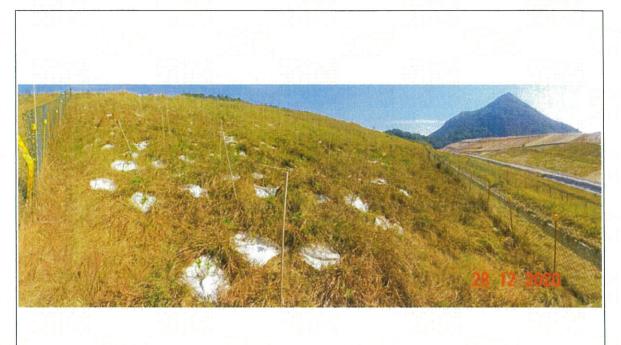


Photo 25 | General view of Trial Nursery (Sub-Area B1)

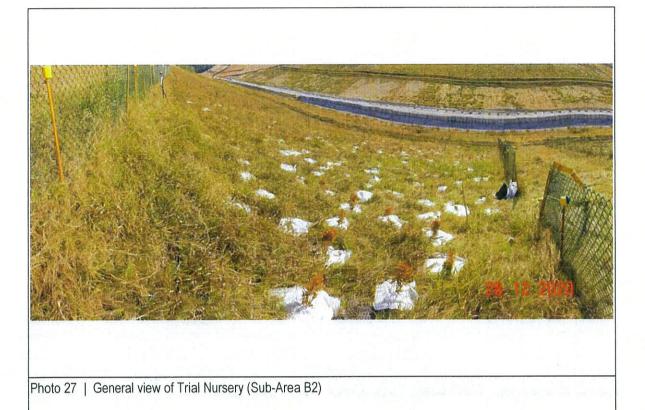


Photo 26 | General view of Trial Nursery (Sub-Area B2)

APPENDIX A

Report No. 8

Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery Job No.: GVL16 Inspection Date: 28 December 2020



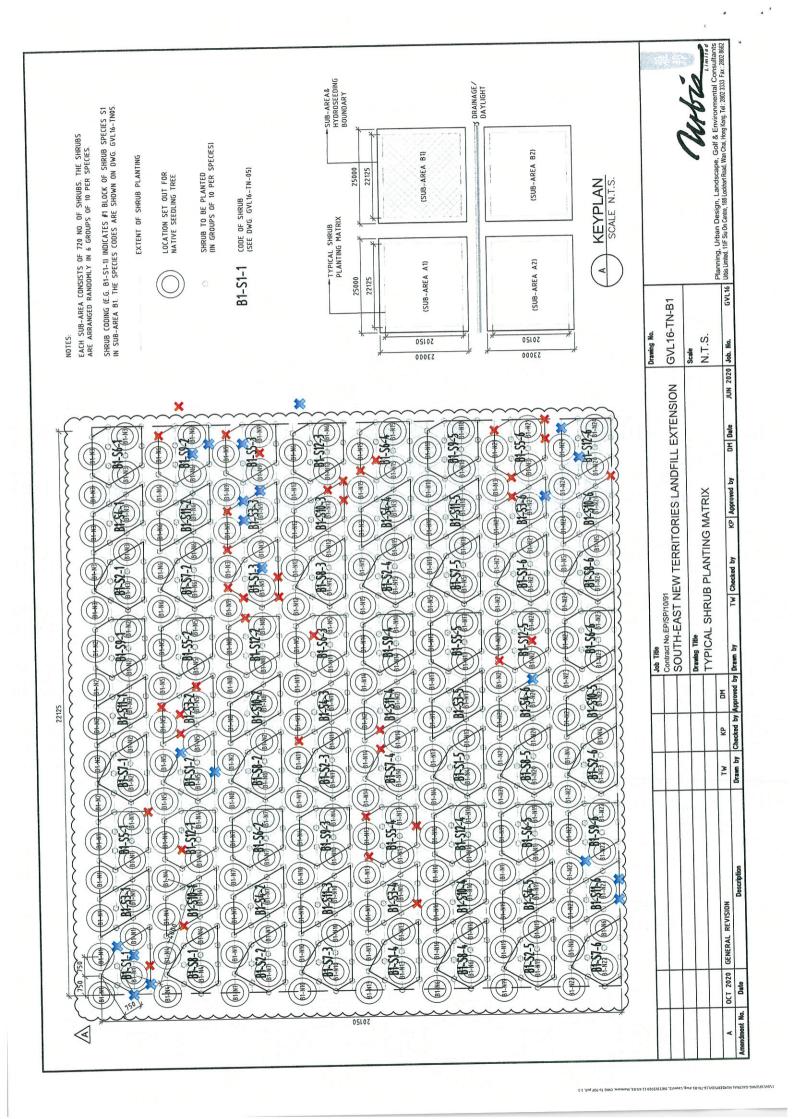
Appendix B - Detail breakdown of planting statistics by locations and species (updated on 28 Dec 2020)

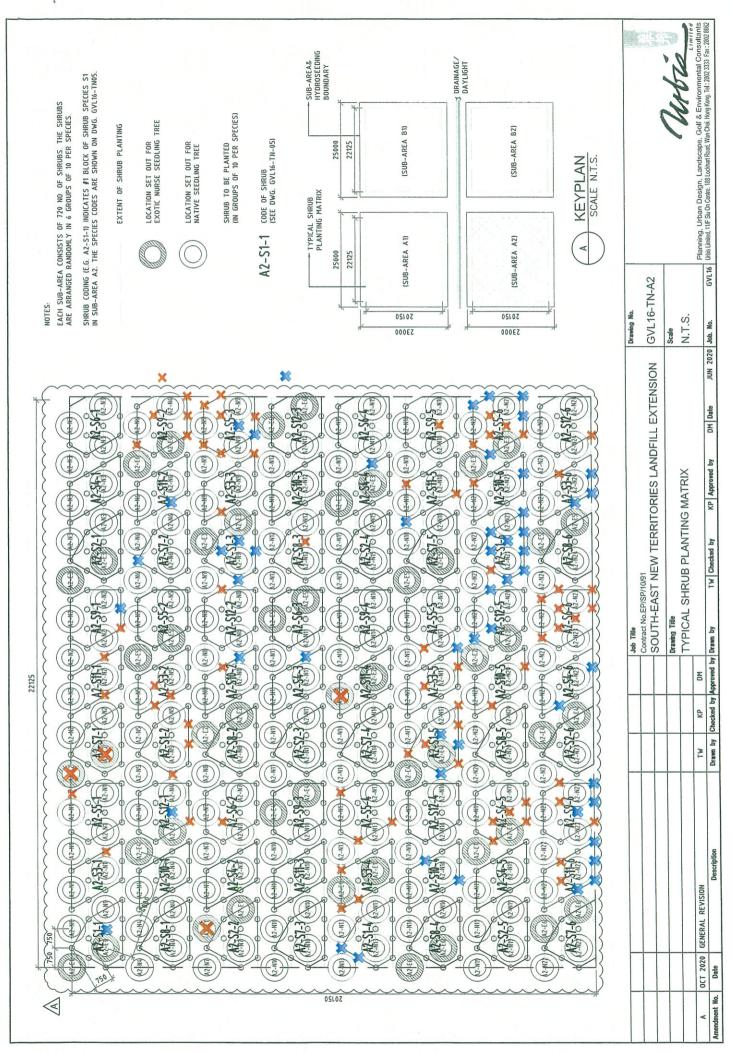
Exotic Trees Seedlings

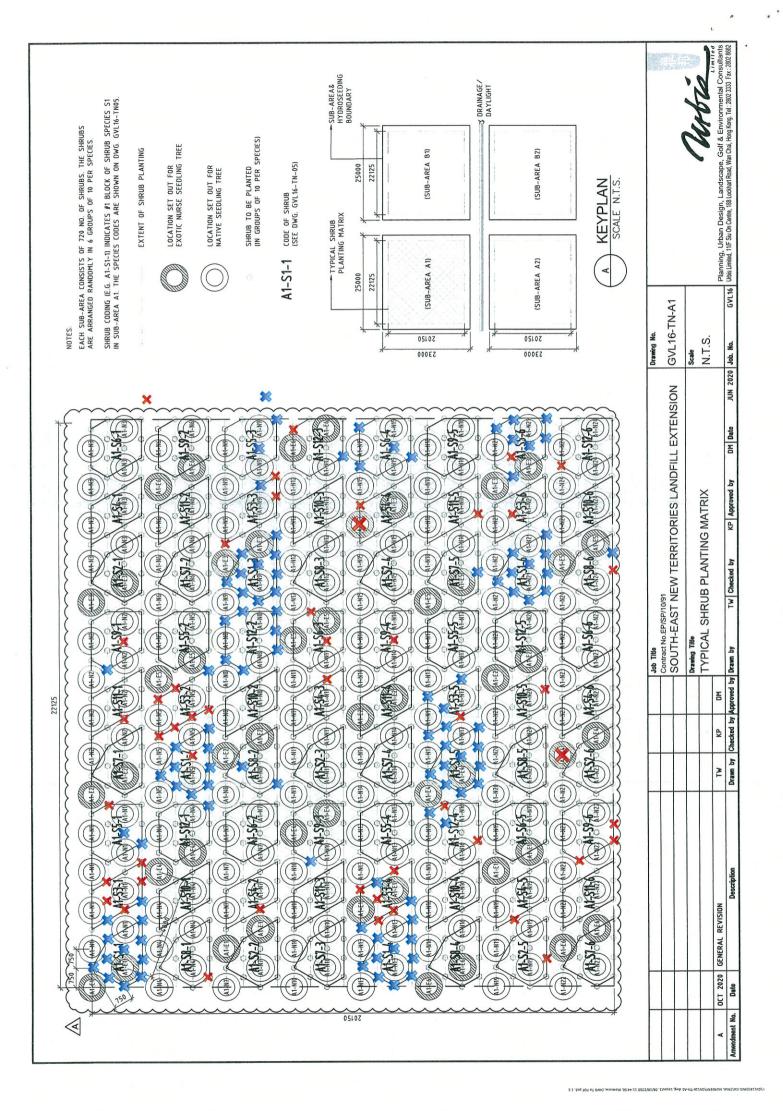
salbade		lotal	2	TH Pare-duc	TH		anc	Sub-area Az			Sub-area B1	ea B1	-	~1	Sub-area B2	a B2	-		Total		Difference	Difference in Lomnared		Ducaledan	
	Total			48			4	48			0				0		I		96		to last	to last inspection		breakdo	MM
Exotic Trees			>	×	•	>	×	0	•	>	×	0	-	>	×	-	-	1	,		(Dec 2020	(Dec 2020 No Nov 2020			
Acacia confusa	台灣相思	16	9	0	2	0	7	1 0	0			,	1			)		5	< '				×	0	•
Cassia nodosa	節果決明	16	m	0	5	0	5	0	0									9 0		n -	and the second s	0	1	2	0
E3 Dalbergia odorifera	除否英情	16	9	1	1	0	00	0	0								i i	0	~ (	0		-2	m	5 275	0
E4 Acacia auriculiformis	耳果相思	16	9	1	1	0	00	0	0				-				N.	**	4 (	N	大学的大学	-1	1	т. с. <b>г</b>	0
Melia azedarach	法标	16	00	0	0	0	00	0	0									16	4 6			0	1	1	0
Senna siamea	鐵刀木	16	7	0	1	0	7	0	1			-						0T			N. MENDER	0	0	0	0
	Sub-total	96	36	2	10	0	43 4	4 0	F	0	0	C	C	C	•	C	-	70	4		and		0	-	1
				- 1							,	,	>	>	>	>	2		Ì			-4	9	10	H 14
													-		-										

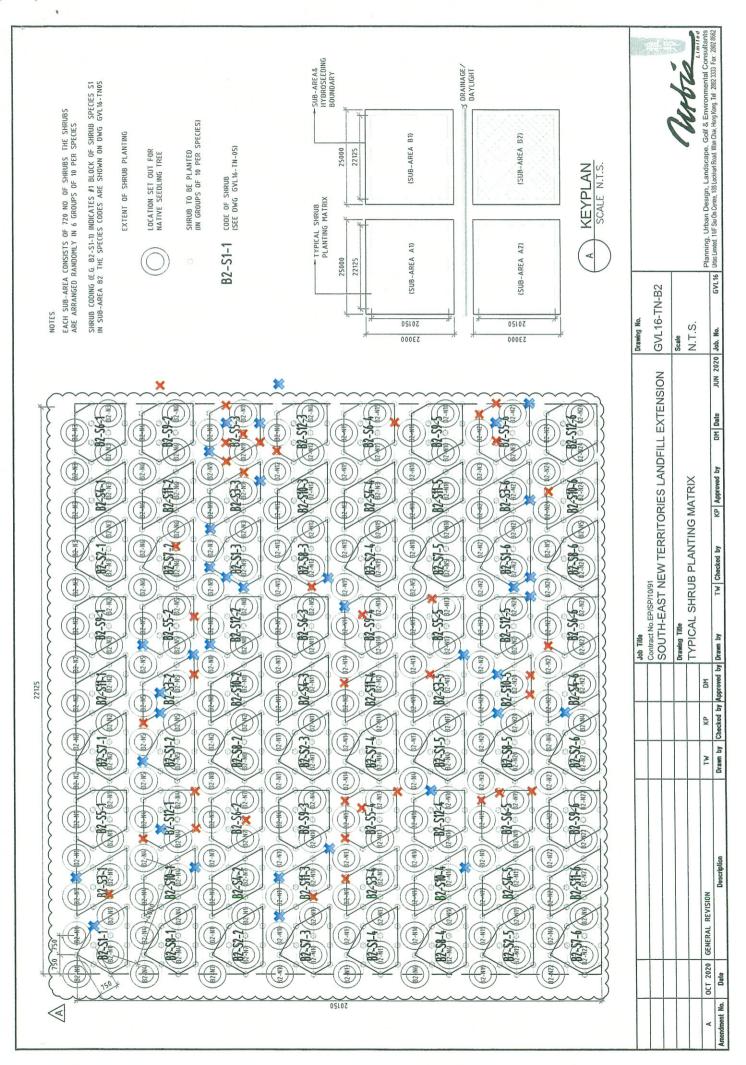
		Total		Sub-area A1	ea A1		S	Sub-area A2	A2		Sub	Sub-area B1	1		Sub-	Sub-area B2				Total	-	Difference in	Difference in Compared		Dunnlad	
	Total			720				720		_	720	0			720					0000		to last inspection	chection		Dreakdown	UMU
Shrubs			>	×	0	4	>	o x	•	>	×	0	-	>	×	0	-		>	1	· · · · · · · · · · · · · · · · · · ·	(Dec 2020 No	(Dec 2020 No Nov 2020			-
Buxus sinica	拉橋	240	0	60	0	0	33	27	0	7	45 1	0		53		0	1	101		-	-	1		×	0	4
Calliandra haematocephala 215455	ala statek	240	57	-	6	0	28		0 0			4 0		1			50	121			60T	-	-90	106	m	-
Hamelia natens	学道会	UVC	VE	1 00	4 1		00		4 1	2 0					3		0	234			9	-1		1	S	-
Inomoso per server	1175511	04-7	1	°.	3 :	5	41	ΔT	n	0		12 (	0	0 38	8 14	00	0	141			66	-24	4	75	24	0
anidny-sad naniindi	上京教会	240	45	4	11	0	54	4	2	0	54	2	4	0 59	9 1	0	0	212			28	°,		11	17	
Rhododendron sumsu	名工作出版	240	44	13	m	0	37	23	0	0	47 1.	1	2	0 40	0 20	0	0	168			72	PC-	A State State	13	1	
Pittosporum tobira	海桐	240	54	9	0	0	45	14	1	0	56	m	1	0 54	4 6	0	0	209			31			-	n (	
Rhaphiolepis indica	石斑木	240	55	1	4	0	58	1	1	0	55	1 4	4	0 57		0	0	375			11			57	7	_
Rhodomyrtus tomentosa	桃金娘	240	55	5	0	0	59	-	0	0	58		:		1 0	1 0		010			9	7-		4	11	_
Verbena rigida	關脈馬鞭草	ĭ 240	49	7	4	0	36	14	10		52		1 4		0 ··	1 0	5 0	977			17			00	4	-
Lespedeza formosa	主帮钻错主	240	52	-	9	-	20	00	c		D VV				1 1	0 0		761			48	9		27	21	
Vitex negundo	時期		15	0	2		5	0 0	1 1							7	5	161			43	9-		21	11	11
	10 TU	04.7		1		5	43	71	0		24	~	2	0 55	2	0	0	203			37	-12	2	22	15	0
vitex rotunatjoila	中系受刑			CI I	2	0			5				1	0 49	8	3	0	193	×		47	-17	7	36	11	0
	Sub-total	1 2880	519	148	52	H	562 ]	127	31	0 625	59	9 26	5 10	0 627	73	20	0	2333			547	-196	9	407	129	11

LEGEND ✓ Acceptable × Dead / Poor health O Empty planting pit ▲ Wrong species









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#### Project Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery – Establishment Inspection

Job No. GVL16

Date: 25 & 28 Jan 2021	Report No.: 9	Present:
Photos Taken: Yes	Weather: Fine	URBIS : Anny LI, Kevin SIN, Freddy WAN

ltem	Notes	Action
1.1	The conditions of the planted seedlings and the general set-up of the Trial Nursery were inspected on 25 <sup>th</sup> and 28 <sup>th</sup> Jan 2021. This report records all notable observation and serves as the <u>fifth</u> monthly inspection report for the plants during the establishment period.	Note
	<ul> <li>Supplement information is provided in Appendices:</li> <li>Appendix A – Photo record;</li> <li>Appendix B – Detail breakdown of planting statistics by locations and species;</li> <li>Appendix C – Marked-up location of plants that required replacement and their</li> </ul>	
	<ul> <li>Appendix C = Marked-up location of plants that required replacement and then respective condition (newly found dead/poor health plants during this inspection are marked-up in a different colour for ease of reference);</li> <li>Appendix D – Marked-up location of noxious weeds, and missing weed mats for GVL's maintenance reference</li> </ul>	
1.2	While the primary objective of the Trial Nursery is to review suitability of different native tree species, the planting trial contains both exotic nurse species and native species.	Note
	Planting programmes and monitoring to be carried out are summarised as follows:	
	<ul> <li>Exotic tree species and shrubs are planted in the 1<sup>st</sup> year of the setup of Trial Nursery</li> <li>Monthly inspections to assess the maintenance needs and replacement of failed plants;</li> </ul>	
	<ul> <li>Quarterly trial monitoring and data collection to capture plant performances.</li> <li>Native tree species are planted in the 2<sup>nd</sup> year of the setup of Trial Nursery</li> <li>Monthly inspections to assess the maintenance needs;</li> </ul>	
	<ul> <li>Monthly inspections to assess the maintenance needs,</li> <li>Monthly trial monitoring and data collection to capture *plant performances, especially any plant mortality in early stage of establishment.</li> </ul>	
	* It shall be noted that as per the agreed Monitoring Methodology for the Planting Trials, only failing or failed exotic trees and shrubs will be remediated or replaced, but failed native tree plants will not.	
1.3	The following timeline briefly summarises the set-up and planting processes of the Trial Nursery:	Note
	<ul> <li>From March to May 2020, the general layout of the Trial Nursery and hydroseeding was done by GVL;</li> </ul>	
	<ul> <li>From June to August 2020, the planting of exotic nurse tree seedlings and shrub seedlings was done by the soft landscape contractor – Hong Kong Landscaping Company Limited (hereafter referred to as HKL);</li> </ul>	
	<ul> <li>As of Record of Site Inspection No. 4 (dated 12, 14 August 2020), the planting of exotic nurse tree seedlings and shrub seedlings was considered satisfactory and substantially completed. The commencement of the establishment period for the planted seedlings of exotic nurse trees and shrubs followed.</li> </ul>	



Project	Job No.
Contract No. EP/SP/10/91	GVL16
South East New Territories Landfill Extension (SENTX)	-1.1.
Trial Nursery – Establishment Inspection	

ltem	Notes	Action
1.4	<ul> <li>HKL shall take note of the observed defects on planted seedlings and rectify them in due course. It is acknowledged that replacement is not ideal during winter/dry season. The contractor shall keep record of the previous and this report and prepare to start sourcing quality stocks for replacement before commencement of spring.</li> <li>A proposal of plant replacement indicating key dates of the replacement programme was previously requested to be submitted for URBIS review before the end of January.</li> </ul>	GVL/ HKL (1 <sup>st</sup> reminder)
	This programme is pending as of today – GVL and HKL shall follow up and the replacement programme shall be ready by <u>10 Feb.</u>	
1.5	Several deciduous species were observed to have defoliated (e.g. <i>Melia azedarach</i> (E5), <i>Lespedeza formosa</i> (S10), <i>Vitex negundo</i> (S11)). No of very few foliage remained The branches felt elastic to the touch, URB considered the overall health condition of the species to be fair and there is no immediate concern for replacement.	Note
	Photos: 01-03	
1.6	Some evergreen species (e.g. <i>Hamelia patens</i> (S3) and <i>Senna siamea</i> (E6)) had no or very few foliage during this inspection, potentially stressed by the chilled local climate at the exposed Site. Green tissue observed under bark upon scratching test.	HKL
	The Contractor shall keep up maintenance of the plants and apply fertilizer before onset of spring to promote foliage regrowth. The plants will be kept under monitoring. Photos: 04-07	
1.7	<ul> <li>Buxus sinica (S1) is primarily an evergreen native shrub species. During the last inspection in Dec 2020, majority of the foliage were found to be yellowish or rusty in colour – a sign that the plants were under severe stress and potential for recovery was assessed to be low.</li> <li>During this inspection, URBIS had undertaken scratching test on a large number of the poor health-looking <i>Buxus</i>, green tissues were observed under bark on some of the plants – an indication that the plants were still alive. It is one of the responses of plants under stressed condition to shed leaves, transfer energy back to the root system and regrow foliage in optimum conditions.</li> </ul>	Note
	URBIS decided to keep the <i>Buxus</i> with green tissues – and would suggest GVL or HKL to apply fertilizer to the plants before onset of spring and observe if the plants could revive in spring. Those with no green tissue under bark are being rejected and replacement is required.	GVL/ HKL
	Photos: 08-11	
	이 사람들은 것이 아니는 것은 것이 있는 것이 아니는 것이 가지 않는 것이 없는 것이 같이 있다.	



Project

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Contract No. EP/SP/10/91

#### South East New Territories Landfill Extension (SENTX) Trial Nursery – Establishment Inspection

Job No. GVL16

ltem	Note	es							Action
1.8		conditions of seedlings in Sub-Area A	1 are s	ummarise	d below	:			GVL/ HKL
	Plan	nted seedlings in Sub-Area A1	Exoti	c Trees	Sh	rubs	То	otal	
	Tota	al		48	7	20	7	68	
	Acc	ceptable							
	a)	In fair conditions / seedlings to be monitored	37	(77%)	523	(73%)	560	(73%)	
	Rej	ected							
	b)	In very poor conditions / dead seedlings to be replaced	0	(4%)	133	(18%)	133	(17%)	
	c)	Empty pits / seedlings not planted	11	(23%)	65	(9%)	76	(10%)	
	d)	Seedlings of wrong species to be replaced	0	(0%)	0	(0%)	0	(0%)	
	cour repr	otal, the Contractor shall replace / corrise for Sub-area A1, compared to 21 resents <b>0.5%</b> of overall plants in sub-a er to Appendix C for the Marked-up pective condition.	3 nos. area A1	from last n	nonth, a	n insignifio	cant dec	crease that	
		stated in item 1.4, HKL shall submit BIS review <b>before 10 Feb</b> .	a deta	iled propo	sal rega	arding pla	nt replac	cement for	GVL/ HKL
	Pho	oto: 12							



ProjectJob No.Contract No. EP/SP/10/91GVL16South East New Territories Landfill Extension (SENTX)Trial Nursery – Establishment Inspection

tem	Notes		elan ar					Action
1.9	The conditions of seedlings in Sub-Area A Planted seedlings in Sub-Area A2	∖2 are s	summarise	d below:				GVL/ HKL
		Exoti	c Trees	Shi	rubs	Тс	otal	and and a second second
	Total		48	7	20	7	68	
	Acceptable							
	a) In fair conditions / seedlings to be monitored	44	(92%)	593	(82%)	637	(83%)	
	Rejected							
	b) In very poor conditions / dead seedlings to be replaced	2	(4%)	80	(11%)	82	(11%)	
	c) Empty pits / seedlings not planted	1	(2%)	47	(7%)	48	(6%)	
	d) Seedlings of wrong species to be replaced	1	(2%)	0	(0%)	1	(0%)	
	In total, the Contractor shall replace / cor course for Sub-area A2, compared to 1 plants in sub-area A2. Refer to Appendix C for the Marked-up respective condition. As stated in item 1.4, HKL shall submit	63 nos	n of plants	t month that rea	, a <b>4%</b> de	acement	of overall t and their	
	course for Sub-area A2, compared to 1 plants in sub-area A2. Refer to Appendix C for the Marked-up respective condition.	63 nos	n of plants	t month that rea	, a <b>4%</b> de	acement	of overall t and their	
1.10	<ul> <li>course for Sub-area A2, compared to 1 plants in sub-area A2.</li> <li>Refer to Appendix C for the Marked-up respective condition.</li> <li>As stated in item 1.4, HKL shall submit URBIS review before 10 Feb.</li> </ul>	63 nos locatior a deta	, from las	t month that rea	, a <b>4%</b> de	acement	of overall t and their	
1.10	<ul> <li>course for Sub-area A2, compared to 1 plants in sub-area A2.</li> <li>Refer to Appendix C for the Marked-up respective condition.</li> <li>As stated in item 1.4, HKL shall submit URBIS review before 10 Feb.</li> <li>Photo: 13</li> </ul>	63 nos locatior a deta	, from las	t month that rea	, a <b>4%</b> de	acement	of overall t and their	GVL/ HKI
1.10	<ul> <li>course for Sub-area A2, compared to 1 plants in sub-area A2.</li> <li>Refer to Appendix C for the Marked-up respective condition.</li> <li>As stated in item 1.4, HKL shall submit URBIS review before 10 Feb.</li> <li>Photo: 13</li> <li>The conditions of seedlings in Sub-Area I</li> </ul>	63 nos locatior a deta	, from las	t month that rea sal rega d below	, a <b>4%</b> de	acement nt replac	of overall t and their	GVL/ HKI
1.10	<ul> <li>course for Sub-area A2, compared to 1 plants in sub-area A2.</li> <li>Refer to Appendix C for the Marked-up respective condition.</li> <li>As stated in item 1.4, HKL shall submit URBIS review before 10 Feb.</li> <li>Photo: 13</li> <li>The conditions of seedlings in Sub-Area I</li> </ul>	63 nos locatior a deta	, from las	t month that rea sal rega d below	, a <b>4%</b> de	acement at replac	of overall t and their cement for	GVL/ HKI
1.10	<ul> <li>course for Sub-area A2, compared to 1 plants in sub-area A2.</li> <li>Refer to Appendix C for the Marked-up respective condition.</li> <li>As stated in item 1.4, HKL shall submit URBIS review before 10 Feb.</li> <li>Photo: 13</li> <li>The conditions of seedlings in Sub-Area B1</li> </ul>	63 nos locatior a deta	, from las	t month that rea sal rega d below	, a <b>4%</b> de quire repla arding plar : <b>rubs</b> <b>'20</b>	acement at replac	of overall t and their cement for otal '20	GVL/ HKI
1.10	<ul> <li>course for Sub-area A2, compared to 1 plants in sub-area A2.</li> <li>Refer to Appendix C for the Marked-up respective condition.</li> <li>As stated in item 1.4, HKL shall submit URBIS review before 10 Feb.</li> <li>Photo: 13</li> <li>The conditions of seedlings in Sub-Area B1</li> <li>Planted seedlings in Sub-Area B1</li> <li>Total</li> </ul>	63 nos locatior a deta 31 are s	s from las	t month that rea sal rega d below	, a <b>4%</b> de quire repla arding plar : <b>rubs</b>	acement at replac	of overall t and their cement for	GVL/ HKI
1.10	<ul> <li>course for Sub-area A2, compared to 1 plants in sub-area A2.</li> <li>Refer to Appendix C for the Marked-up respective condition.</li> <li>As stated in item 1.4, HKL shall submit URBIS review before 10 Feb.</li> <li>Photo: 13</li> <li>The conditions of seedlings in Sub-Area B1</li> <li>Planted seedlings in Sub-Area B1</li> <li>Total</li> <li>Acceptable</li> <li>a) In fair conditions / seedlings to be not seedlings</li></ul>	63 nos location a deta 31 are s	s from las	t month that rea sal rega d below	, a <b>4%</b> de quire repla arding plar : <b>rubs</b> <b>'20</b>	acement at replac	of overall t and their cement for otal '20	GVL/ HKI
1.10	<ul> <li>course for Sub-area A2, compared to 1 plants in sub-area A2.</li> <li>Refer to Appendix C for the Marked-up respective condition.</li> <li>As stated in item 1.4, HKL shall submit URBIS review before 10 Feb.</li> <li>Photo: 13</li> <li>The conditions of seedlings in Sub-Area B1</li> <li>Total</li> <li>Acceptable <ul> <li>a) In fair conditions / seedlings to be n</li> <li>Rejected</li> <li>b) In very poor conditions / dead seed</li> </ul> </li> </ul>	63 nos location a deta 31 are s	s from las	t month that rea sal rega d below <b>Sh</b> 7 545	, a <b>4%</b> de quire repla arding plar : rubs 20 (76%)	acement nt replac	of overall t and their cement for <b>otal</b> <b>/20</b> (76%)	GVL/ HKI

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Contract No. EP/SP/10/91

Job No. GVL16

### South East New Territories Landfill Extension (SENTX)

Trial Nursery – Establishment Inspection

Item	Notes					Action
1.11	In total, the Contractor shall replace / complete the plantir course for Sub-area B1, compared to 95 nos. from last moverall plants in sub-area B1. Refer to Appendix C for the Marked-up location of plants respective condition. As stated in item 1.4, HKL shall submit a detailed proposa URBIS review <b>before 10 Feb</b> . <b>Photo: 14</b> The conditions of seedlings in Sub-Area B2 are summaris	onth, that r that require	epresents e replacer g plant rep	s <b>11%</b> in	crease of d their	GVL/ HKL GVL/ HKL
	Planted seedlings in Sub-Area B2					
		Shr	ubs	То	otal	
	Total	7:	20	7	20	
	Acceptable					
	a) In fair conditions / seedlings to be monitored	546	(76%)	546	(76%)	
	Rejected					
	b) In very poor conditions / dead seedlings to be replaced	156	(22%)	156	(22%)	
	c) Empty pits / seedlings not planted	18	(3%)	18	(3%)	
	d) Seedlings of wrong species to be replaced	0	(0%)	0	(0%)	
	In total, the Contractor shall replace / complete the plant course for Sub-area B2, compared to 93 nos. from last m overall plants in sub-area B2. Refer to Appendix C for the Marked-up location of plant respective condition. As stated in item 1.4, HKL shall submit a detailed prop URBIS review <b>before 10 Feb</b> .	nonth, that ts that req	represent uired repl	is 11% i acemen	ncrease of t and their	GVL/ HKL
	Photo: 15					
1.12	The entrance gates of the Sub-Areas A1, A2, B1 and collapsed.	B2 of the	e Trial Nu	ursery a	re partially	GVL



Project	Job No.
Contract No. EP/SP/10/91	GVL16
South East New Territories Landfill Extension (SENTX)	Market and the Market Market
Trial Nursery – Establishment Inspection	

ltem	Notes	Action
1.13	The planting locations of all S9 seedlings (Stachytarpheta jamaicensis 假馬鞭) and S11 seedlings (Vitex negundo 黃荊) have swapped.	Note
	As mentioned in Record of Site Inspection No. 3, the swapping of these two species was deemed acceptable. The drawings accompanying this report have been updated accordingly.	
	Update as of Site Inspection No. 5 (24, 28 September 2020):	
	As revealed during the inspection as some of the seedlings were flowering, the shrub species S9 planted on-site was found to be <i>Verbena rigida</i> (顯脈馬鞭草).	
	Both Verbena rigida (顯脈馬鞭草) and Stachytarpheta jamaicensis (假馬鞭) are exotic species and both belong to the same plant family Verbenaceae, they share a lot of similarities in ecological and botanical aspects. They also have similar requirements for growth and possibly a similar life cycle. Based on such similarity, we suggest the planted Verbena rigida (顯脈馬鞭草) could be retained on-site for onward monitoring in Trial Nursery; but if Verbena rigida (顯脈馬鞭草) significantly fails later during the establishment period, the original	
	species Stachytarpheta jamaicensis (假馬鞭) shall be planted.	
1.14	Detailed data of individual nurse and shrub species' health and growth condition is prepared in the separate quarterly monitoring report – Nov 2020 to Jan 2021.	Note

Prepared by:

Approved by: /

David Morkel Director

Anny Ll Certified Arborist / Horticulturist

Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery ob No.: GVL16 Inspection Date: 21th & 28th Jan 2021

#### APPENDIX A

Report No. 9

Job No.: GVL16 Inspection Date: 21th & 28th Jan 2021

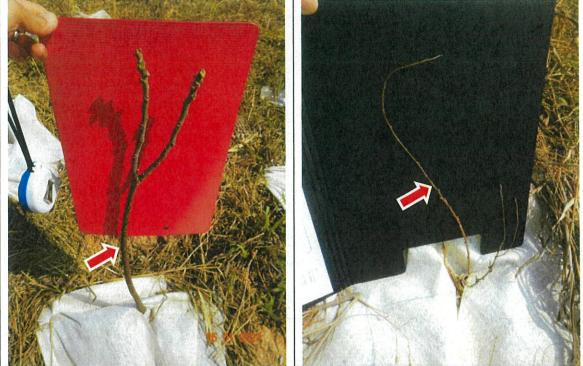


Photo 01 | Example of E5 – *Melia azedarach*, a Photo 02 | Example of S10 – *Lespedeza formosa*, a deciduous species with no foliage during this inspection

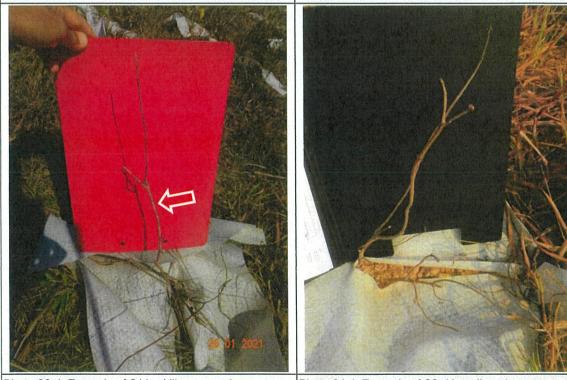
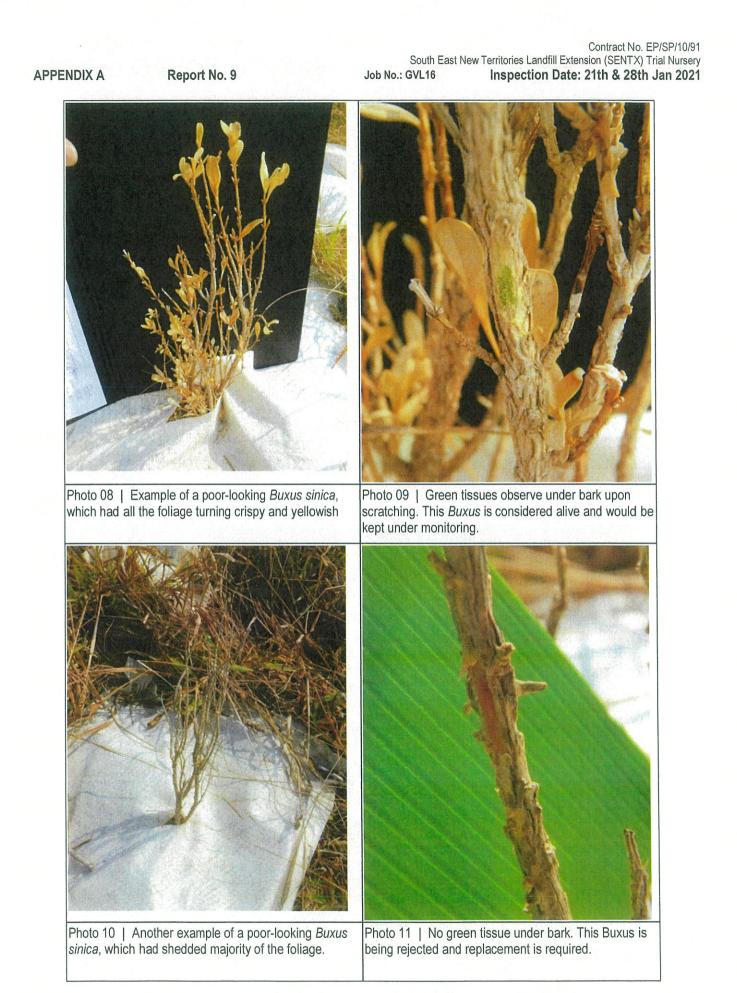


Photo 03 | Example of S11 - Vitex negundo, a<br/>deciduous species with no foliage during this inspectionPhoto 04 | Example of S3: Hamelia patens, an<br/>evergreen species with very few foliage

Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery Inspection Date: 21th & 28th Jan 2021 Job No.: GVL16 Report No. 9 APPENDIX A Photo 05 | Branches of the Hamelia patens felt elastic Photo 06 | Example of E6: Senna siamea, , an evergreen species with diebacks and no foliage to the touch, and new foliage emerged (BLANK) Photo 07 | Green tissue under bark observed upon scratching test of the Senna siamea



Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery Job No.: GVL16 Inspection Date: 21th & 28th Jan 2021

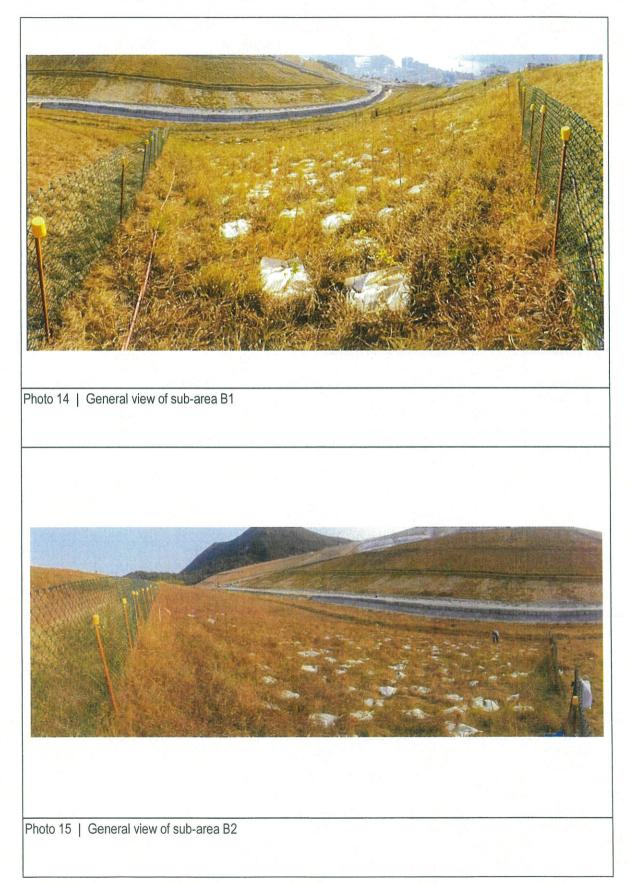
#### APPENDIX A

Report No. 9



#### APPENDIX A

### Report No. 9



Appendix B - Detail breakdown of planting statistics by locations and species (updated on 3 Feb 2021)

	1

		lotal	Suk	Sub-area A1 (updated Jan) Sub-area A2	(update	(uer p	Sub-are.	1 A2	-	Sub	Sub-area B1	-	~	Sub-area B2	82			Total				Comparison of acceptable		Breakdown	
	Total			48			48		-		0			0				96				plants (" <") compared to			
Exotic Trees			×	0	•	>	×	0	-	×	0	•	>	o ×	•		`		×	0	•	last inspection	×	0	4
E1 Acacia confusa	台灣相思	16	9	0 2	0	2	1	0	0							13	1	(91%)	1	2	0	0	1 (6%)	2	0 (0.5)
E2 Cassia nodosa	節果決明	16	e	0 5	0	7	1	0	0							10		(9) 29	1	S	0	2	1 (6%)	5 225	•
E3 Dalbergia odorifera	降香黃檀	16	9	0 2	0	7	0	1	0							T		81%)	•	m	0	I-	0 (0)	3 221	•
E4 Acacia auriculiformis	耳果相思	16	9	0 2	0	00	0	0	0							14		88%)	•	2	0	0	0.00	2 525	•
E5 Melia azedarach	苦棟	16	60	0 0	0 0	00	0	0	0							16		100%)	•	0	0	0	0 (0)50	0.055	•
E6 Senna siamea	鐵刀木	16	8	0 0	0 0	7	0	0	1	3				_		15		34%)	•	•	1	1	0.00%	0.075	1 165
	Sub-total	96	37	0 11	0 1	44	2	F	F 1982	0	0 0	(0%)	0 (20)	0	0	0 81		8.4%)	2	12	н	2	2 (2%)	12 222	1 13

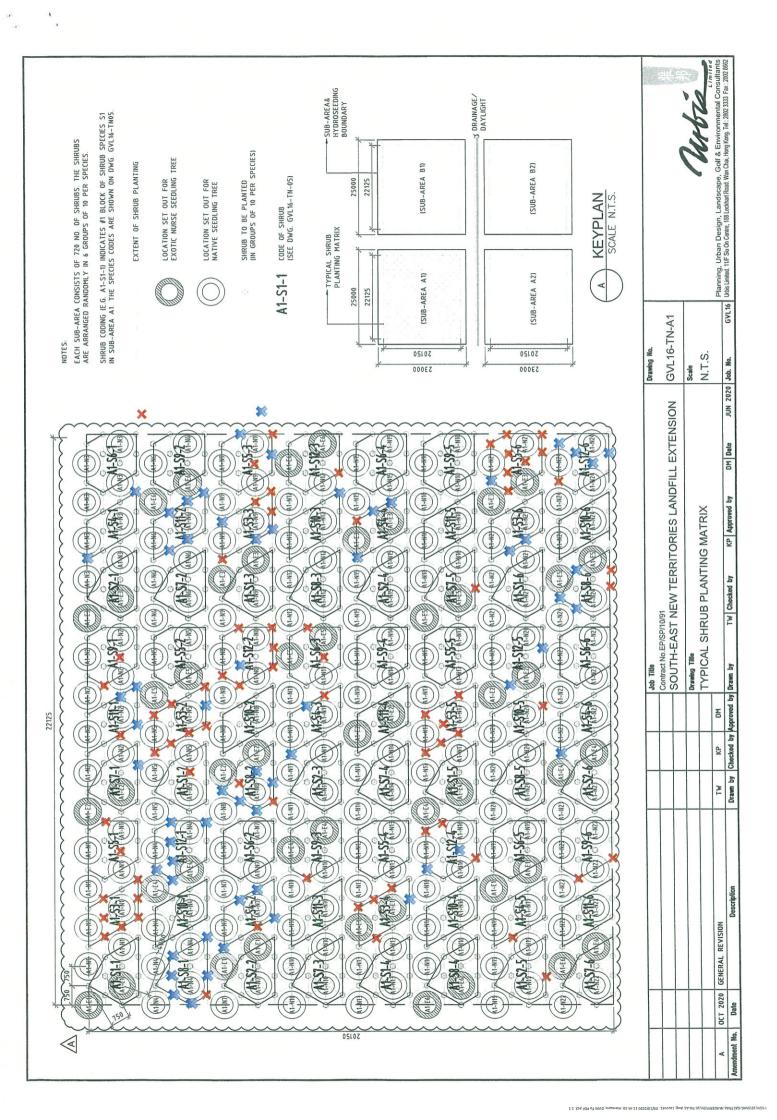
Species		Total		Sub-are	a A1 (u)	Sub-area A1 (updated Jan) Sub-area A2	Jan) S	ub-area	AZ		Sub	Sub-area B1			Sub-a	Sub-area B2		State of the		lotal			Comparison of acceptable		Breakdown	'n
	Total			720	12	-	inter and	720			720	0			720			ALL ST	2880	0			plants (" / ") compared to			
Shrubs			>	×	0	•	>	×	•	>	×	0	4	>	×	0	4			×	0	•	last inspection	×	0	•
Buxus sinica	黃楊	241	60	1	0	0	51	16	0	0	0 5	57 3	3 0	0	60	0	0	111		127	m	•	-20	127 ==	3 1 5	0
Calliandra haematocephala	cephala 紅絨球	240	57	1	2	0	58	0	2	0	59	0	1 0	09 00	0	0	0	234		-	5	0	0	1.05	5 (2%	0 0
Hamelia patens	希美利	240	10	35	15	0	40	16	4	0	37 2	23 0	0	34	18	00	0	121		92	27	•	-20	92 555	27 222	0
Ipomoea pes-caprae	海灘牽牛	240	32	15	13	0	49	8	ŝ	0	52	4 4	4 0	52	00	0	0	185		35	20	0	-27	35 222	20	0
Rhododendron simsii	11 紅杜鵑	240	40	16	4	0	43	15	2	0	47 1	13 0	0 0	34	1 26	0	0	164		70	9	•	-4	70	9	0 0
Pittosporum tobira	海雹	240	58	2	0	0	45	13	2	0	57	3	0 0	54	H. 6	0	0	214	(%68)	24	2	0	5	24 #22	2 (1)%	0
Rhaphiolepis indica	石斑木	240	52	S	5	0	58	0	2	0	56	1	0	58	1	1	0	224	(93%)	5	11	•		5 (2%)	11 (5%	0
Rhodomyrtus tomentosa	tosa 桃金娘	240	39	19	2	0	59	-	0	0	58	0 2	2 0	53	5	2	0	209	(87%)	25	9	•	-19	25 772	9	0
Verbena rigida	顕脈馬鞭草	240	48	S	7	0	39	9	15	0	40 2	20 0	0 0	54	m	m	0	181	(75%)	34	1 25	•	11-	34 248	25 ====	0.0
S10 Lespedeza formosa	美麗胡枝子	240	51	2	7	0	52	m	5	0	44	5	1 10	51	00	1	0	198	(83%)	18	14	10	1	18 85-	14 6%	10
S11 Vitex negundo	黃荊	240	45	6	9	0	49	ŝ	00	0	46 1	11 3	0	55	5	0	0	195		28	17	•	89	28 ###	17	0
S12 Vitex rotundifolia	單葉虁荊	240	31	25	4	0	50	9	4	0	49 1	10 1	1 0	1 41	16	3	0	171	(71%)	57	12	•	-22	57 ====	12	0
	Sub-total	2881	523	133	65	0	593	80	47	0 5	45 14	147 18	8 10	546	156	18	0	2207		516	148	10	-126	516 224	148	10
			172CM		10001	10001	1 10808	1198	7951 2 10	911 - 155	164 (200	1821 1835	180	1 (76%)	1 07%	1462)	(20)									

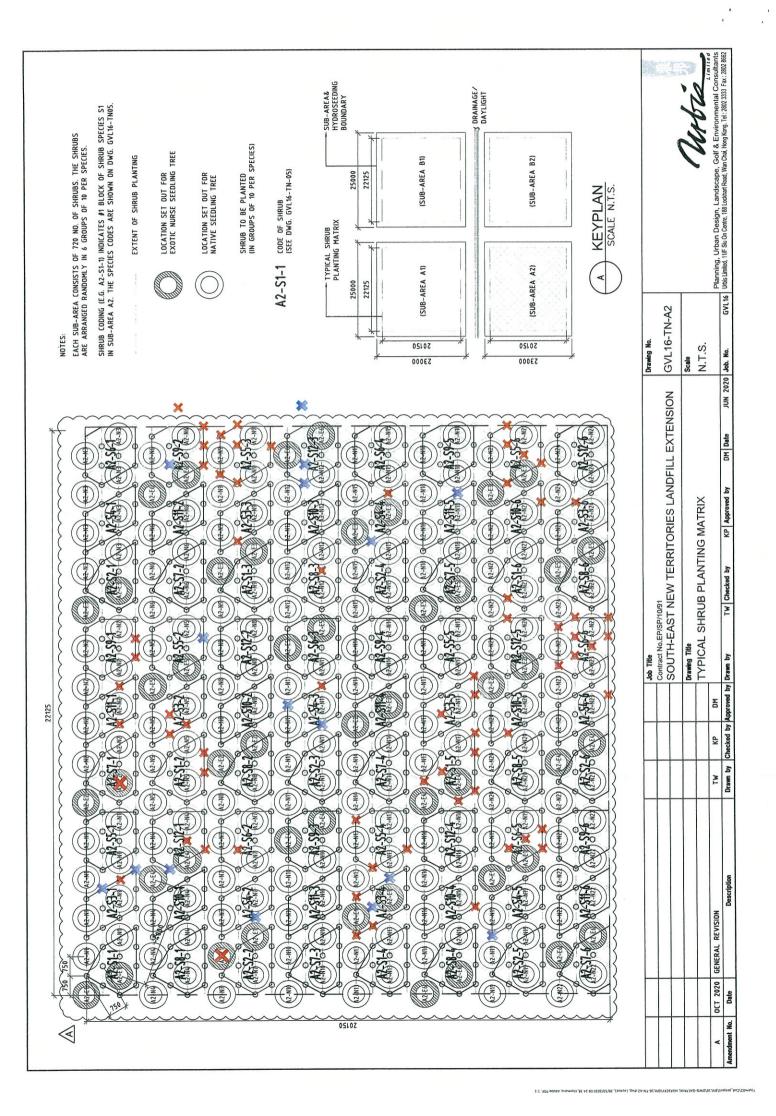
LEGEND ✓ Acceptable ★ Dead / Poor health O Empty planting pit ▲ Wrong species

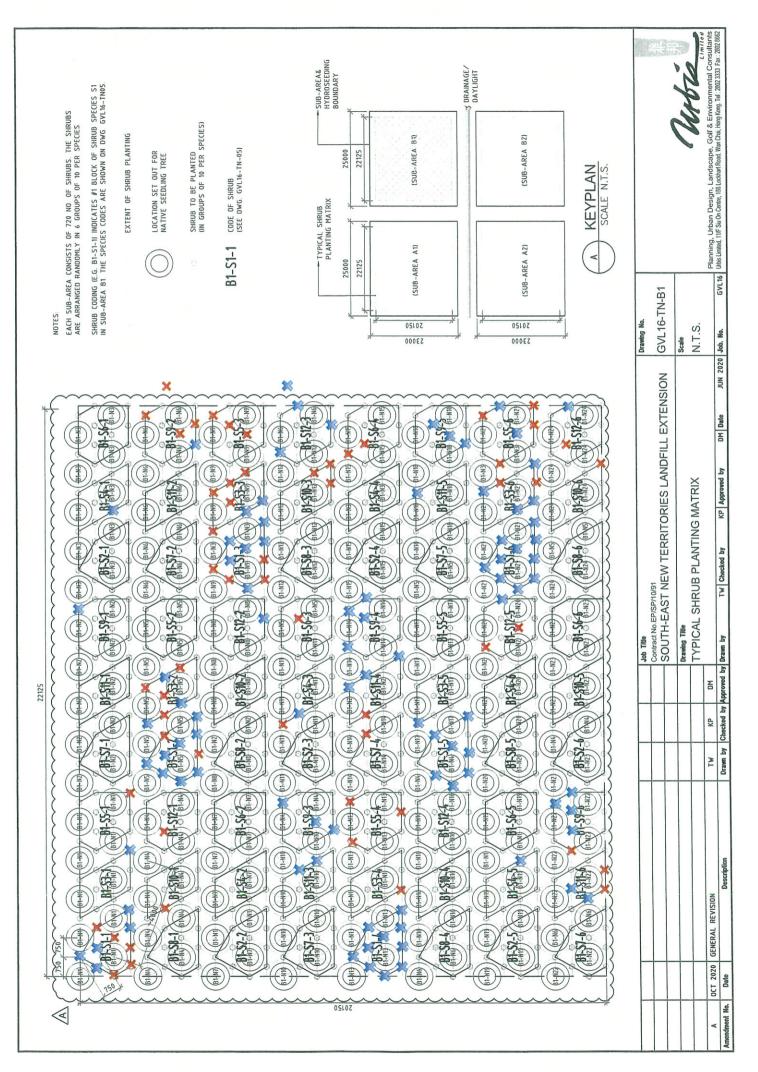
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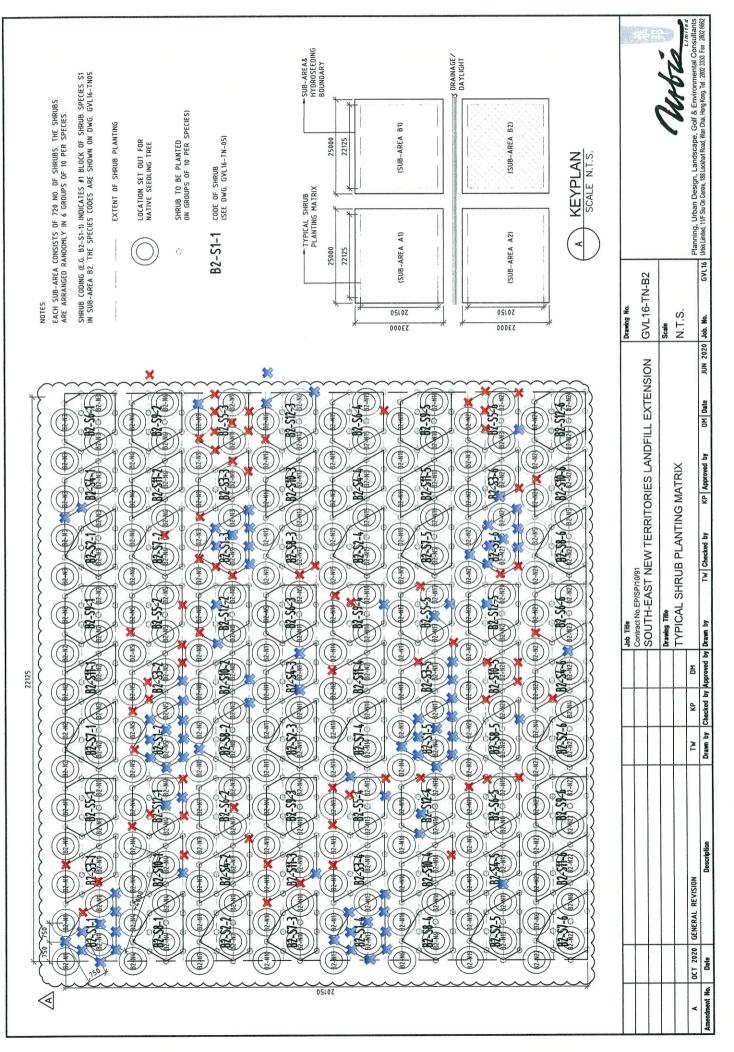






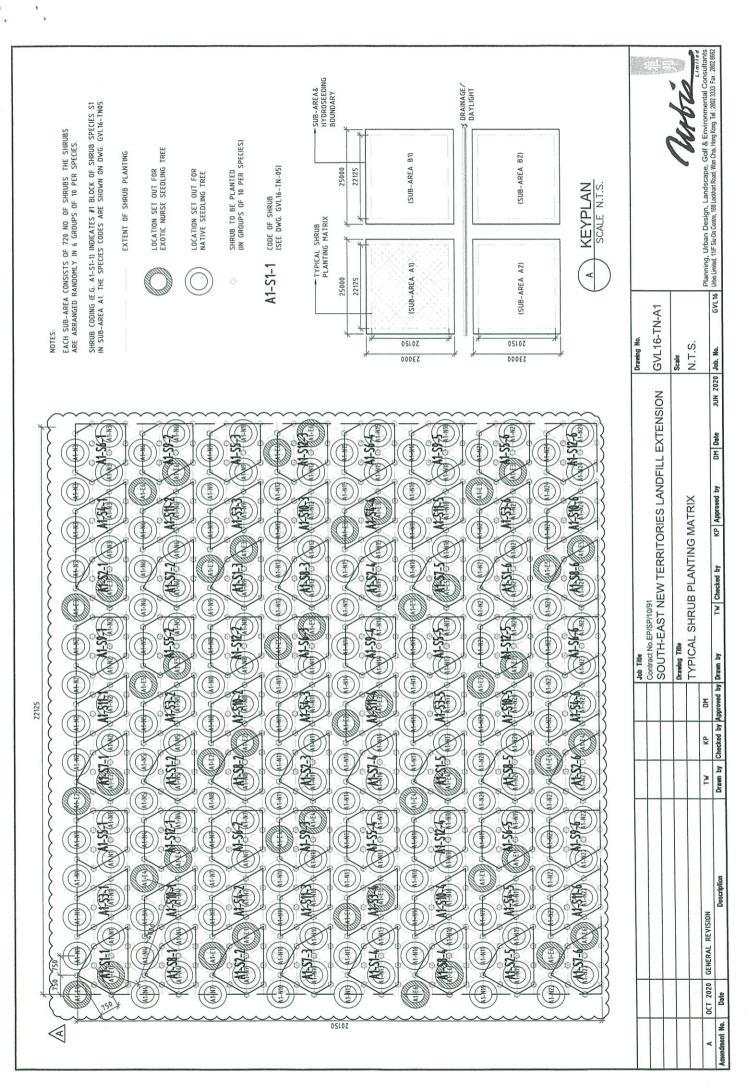
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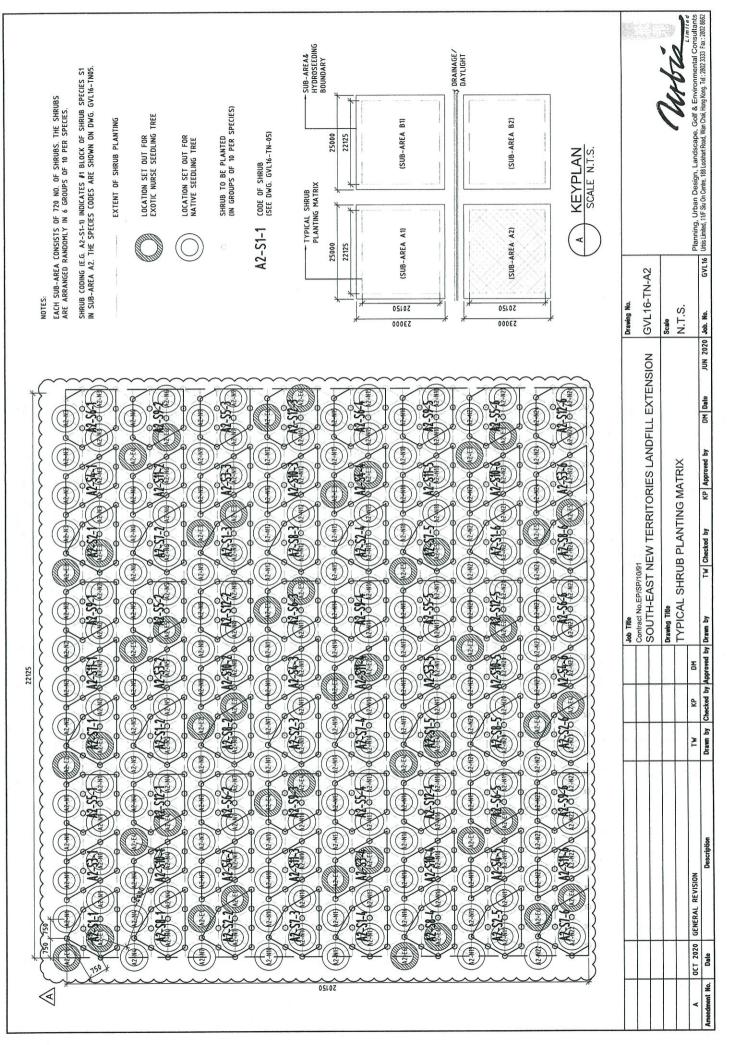
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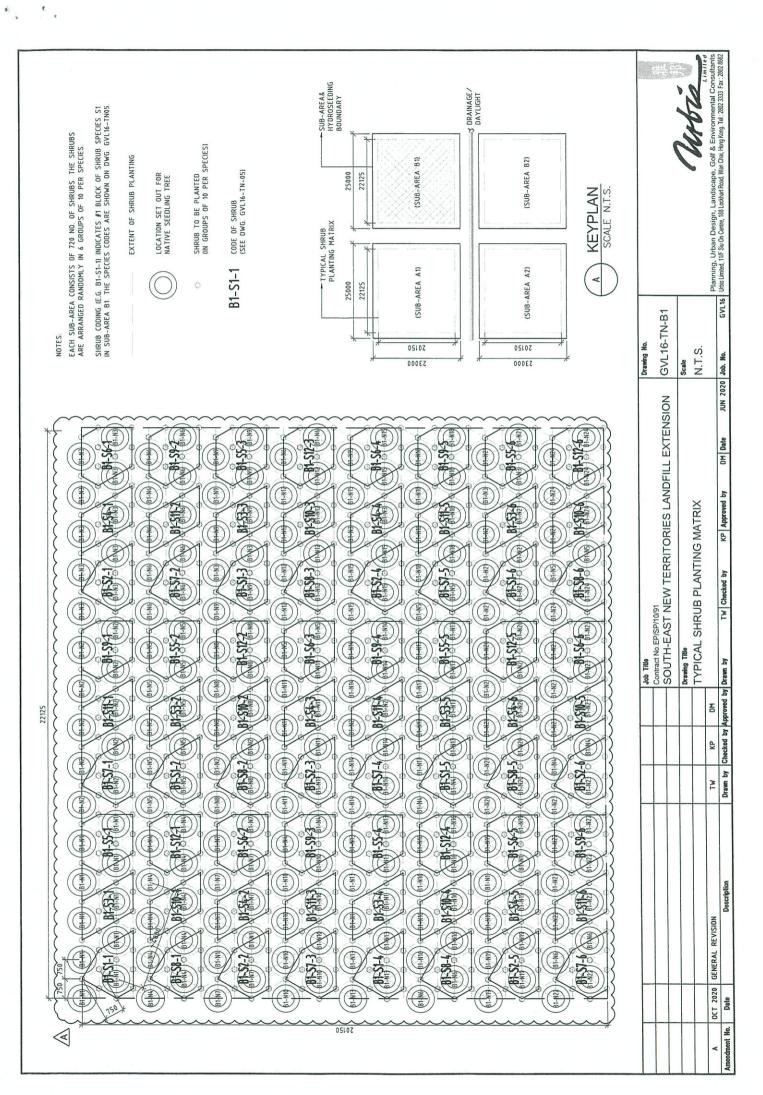


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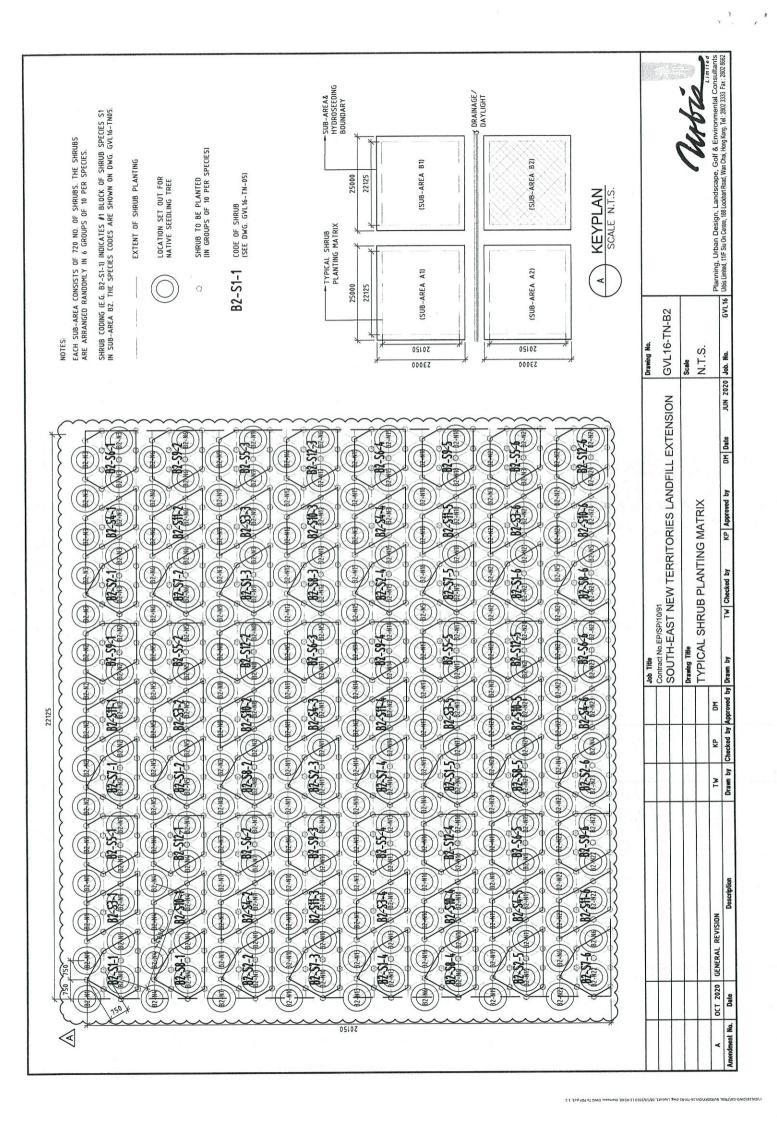
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# Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX)

# Trial Nursery Planting Monitoring Data Collection Report No. 1

(Doc. Ref.: GVL16-TN-DOC001)

Prepared by: URBIS Limited

Prepared by:

nec

15 December 2020 Date

Freddy Wan / Anny Li / Kevin Sin / Kity Pang

Tran Tuan Huy

15 December 2020 Date

Checked by:

Approved for issue by:

bavid Morkel

15 December 2020 Date

Notic

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2	CONTRACT REQUIREMENTS AND METHODOLOGY	1
3	KEY OBSERVATIONS IN THIS REPORTING PERIOD	3
4	SUMMARY OF RESULTS	4

#### APPENDICES

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	Drawing No. GVL16-TN_A1
	Drawing No. GVL16-TN_A2
	Drawing No. GVL16-TN_B1
	Drawing No. GVL16-TN_B2
Appendix B	SENTX Trial Planting Monitoring Data Collection Forms
	• Form No. 2020-10_A1
	• Form No. 2020-10_A2
	• Form No. 2020-10_B1
	• Form No. 2020-10_B2
Appendix C	Landscape Works Maintenance Report Forms
	Maintenance Period (June 2020)
	Maintenance Period (July 2020)
	Maintenance Period (August 2020)
	Maintenance Period (September 2020)
•	Maintenance Period (October 2020)



### 1 INTRODUCTION

- 1.1 This report provided the planting monitoring data obtained at the Trial Nursery of the South East New Territories Landfill Extension (SENTX), Tseung Kwan O, Hong Kong.
- 1.2 The reporting period of this report is from June 2020 (the commencement of planting at Trial Nursery) to October 2020.
- 1.3 The Trial Nursery was sub-divided into four Sub-Areas for the monitoring of the native seedling trees against two pairs of different trial variables:
  - Variable Condition 1 the use of either type of Microclimatic Growth Tubes (MGT), "Sunflex Greenhouse Grow Tube" or "Rigid Corflute";
  - Variable Condition 2 the existence or non-existence of exotic seedling trees as nurse species for the establishment of native seedling trees.
- 1.4 The treatments of Sub-Areas are shown below:
  - **Sub-Area A1**: native seedling trees with MGT "SunFlex Greenhouse Grow Tube" and exotic nurse seedling trees;
  - Sub-Area A2: native seedling trees with MGT "Rigid Corflute" and exotic nurse seedling trees;
  - **Sub-Area B1**: native seedling trees with MGT "SunFlex Greenhouse Grow Tube" and without exotic nurse seedling trees;
  - **Sub-Area B2**: native seedling trees with MGT "Rigid Corflute" and without exotic nurse seedling trees.

### 2 CONTRACT REQUIREMENTS AND METHODOLOGY

- 2.1 According to Contract Document EP\_SP\_10\_91-SA2\_Volume 2, the monitoring of the trial nursery should meet the requirements of the following clauses:
  - (i) <u>Clause 36.3.5.19</u>: the Contractor shall be responsible for carrying out periodic monitoring inspections of the trial plantings throughout the period of the Contract, and to submit each periodic trial planting monitoring report within 5 working days after each monitoring inspection to the Independent Consultants.
  - (ii) <u>Clause 36.3.5.20</u>: monitoring inspections shall be carried out at monthly intervals, unless otherwise directed by the Independent Consultants.
  - (iii) <u>Clause 36.3.5.22</u>: the Contractor shall submit details of the personnel responsible to carry out the monitoring and sought approval from the Employer. Unless otherwise agreed, the personnel responsible to carry out the monitoring shall have the following minimum requirements:
    - Have a bachelor's degree or higher in horticulture, or a related field such as botany, biology, forestry, arboriculture, landscape studies, landscape architecture, landscape management, landscape science, from a Hong Kong university, or equivalent; and
    - Have a minimum of two years of proven full-time practical experience in soft landscaping, or a related field such as horticulture, arboriculture.

Auto

- (iv) <u>Clause 36.3.5.23</u>: detailed and accurate records of all establishment works and any other works related to the trial planting shall be kept, so as to facilitate the studying of the management intensity required for proper establishment of the trial planting.
- (v) <u>Clause 36.3.5.24</u>: monitoring shall be carried out in a consistent and scientific manner. Information to be recorded for each monitoring session shall include, but not limited to, the items as listed in the sample worksheets as included in Part B of Appendix 36.3.3 of Contract Document EP\_SP\_10\_91-SA2\_Volume 2.
- (vi) <u>Clause 36.3.5.25</u>: the monitoring reports shall be in a format approved by the Independent Consultants, and should include items specified in the clause.
- 2.2 The monitoring of the trial nursery is in compliance with the methodology illustrated in the approved Trial Nursery Proposal (Rev. 1) and subsequent Technical Queries, and is recapitulated as follows.
  - (i) Periodic monitoring inspections of the trial plantings will be carried out throughout the period of the Contract.
  - (ii) With regard to the frequency of monitoring, as the primary objective of the Trial Nursery is to review suitability of different native tree species to be used in the landfill restoration, we believe it is a practical proposal to focus more on the performances of the native tree species while the exotic tree species and shrubs are still adequately monitored and maintained. Therefore, through the use of the Technical Query system, we proposed appropriate monitoring programmes for native tree species, exotic tree species and shrubs correspondingly, and are summarised as follows:
    - for exotic tree species and shrubs which are planted in the first year of the setup of the Trial Nursery, monthly inspections will be carried out to assess the maintenance needs and replacement of failed plants, while quarterly monitoring and data collection will be carried out to capture the plant performances;
    - following the planting of native tree species in the second year of the setup of the Trial Nursery, monthly inspections will be carried out to assess maintenance needs, as well as monthly monitoring and data collection to capture the plant performances, especially any plant mortality in early stage of establishment; (it should be noted that failed native tree plants will not be replaced).
    - thereafter, plants are less likely to fail and there will not be noticeable change in plant growth or development over a 30-day period. We therefore proposed to carry out monitoring inspections four times a year.

We believe that this is a practical proposal that will actually capture mortality in early phases as well as noticeable changes in the plant development in later years.

- 2.3 Based on previous experience and landscape restoration monitoring results from SENT, it is suggested that the MGTs be removed after 1 year to allow sufficient space for established plants' growth.
- 2.4 Monitoring inspections of the trial plantings will be carried out by a Certified Arborist who meets the requirements specified in Clause 36.3.5.22 of Contract Document EP\_SP\_10\_91-SA2\_Volume 2. Details of the arborist responsible to carry out the monitoring have been submitted separately for approval by the Employer.



- 2.5 Monitoring will be carried out in a consistent and objective manner to observe and record the survival, health and growth conditions of the trial plants. Information to be recorded at each monitoring visit will include the items listed in the sample worksheets as included in Part B of Appendix 36.3.3 of Contract Document EP\_SP\_10\_91-SA2\_Volume 3. The version in the Contract has been amended to include MGT and exotic nurse species variables and is included in Appendix B.
- 2.6 In order to act as a constant variable, establishment works for all trial plots / quadrants will be the same. Detailed and accurate records of all establishment works and any other works related to the trial planting will be kept, so as to facilitate the studying of the management intensity required for proper establishment of the trial planting. The approved template of the establishment work record is included in Appendix C.
- 2.7 Analysis of data will consist of analysis of data for each of the following combinations of variables:
  - With "SunFlex Greenhouse Grow Tube" MGTs and with Exotic Nurse species;
  - With "Rigid Corflute" MGTs and with Exotic Nurse species;
  - With "SunFlex Greenhouse Grow Tube" MGTs and without Exotic Nurse species;
  - With "Rigid Corflute" MGTs and without Exotic Nurse species.
- 2.8 For each of these combinations, then the following will be recorded:
  - % survival of all plants in plot;
  - % growth of all plants in plot;
  - % survival of each species in plot;
  - % growth of each species in plot;
  - Hydroseed cover;
  - Observations on plant health generally and by species;
  - Observations on pest and weed infestation;
  - Observations on condition of nursery;
  - Establishment works carried out;
  - Photographic record generally and by species;
  - Observations on abnormal weather conditions;
  - Other relevant observations.
- 2.9 Using this data, at the end of each year, meaningful or significant correlations between variables will be identified and conclusions will be drawn with regard to the optimal combinations of establishment techniques and plant species for use in the final SENTX restoration.

### 3 KEY OBSERVATIONS IN THIS REPORTING PERIOD

- 3.1 The planting of the exotic seedling trees and blocks of shrubs commenced in June 2020.
- 3.2 During the planting process, some of the blocks of shrubs were found to have swapped with each other. As the swapping of planting locations with each other does not have a fundamental influence on the quantification of the trial planting, it was deemed acceptable. Updated drawings



for the Sub-Areas of the Trial Nursery are provided in Appendix A of this report to reflect the changes.

- 3.3 At the landscape works inspection on 14 August 2020, the majority of the planted seedlings and the shrubs were found to be satisfactory and the setup of the Trial Nursery was considered substantially completed.
- Stachytarpheta jamaicensis were originally specified as the S9 shrub species for monitoring. All 3.4 the planted individuals of this species were found dead during the inspections in June 2020 and hence the dead plants were required to be replaced. During the inspections on 24 and 28 September 2020 for checking the condition of the trial planting, as some of the seedlings were flowering, the replaced S9 shrub species planted on-site were identified to be Verbena rigida instead of Stachytarpheta jamaicensis. Since the majority of the trial plants except Stachytarpheta jamaicensis had been properly planted by that time, and the trial monitoring should have started, replacement would mean that the S9 shrub species would be incomparable with other plants onsite due to the difference in timing of planting. Considering both Verbena rigida and Stachytarpheta jamaicensis are exotic species and belong to the same plant family (Verbenaceae), they share a lot of similarities in their ecological and botanical characteristics. They also have similar requirements for growth and a similar life cycle. The planted Verbena rigida are therefore considered acceptable as the substitute for the S9 shrub species for onward monitoring in the Trial Nursery.
- 3.5 Updated drawings for SENTX Trial Planting are provided in Appendix A.
- 3.6 Details of trial planting monitoring data are provided in Appendix B.
- 3.7 Records of landscape maintenance works in this reporting period are provided in Appendix C.
- 88
- 3.8 It is noted that the Technical Query (TQ) ref. No. SENTX-GVL-L-TQ-ZZ-0007-I01 submitted for substituting *Keteleeria fortunei* with *Artocarpus hypargyreus* was rejected on 22 May 2020. The IC has opined that the landscape sub-contractor should try to source seeds and propagate into seedlings with the sufficient time provided, while the Contractor should also provide evidence of all efforts to procure the required small amount of seeds in order to substantiate the substitution. GVL is reminded to communicate closely with the landscape sub-contractor Hong Kong Landscaping (HKL) to secure the relevant native seedlings supply.

#### 4 SUMMARY OF RESULTS

4.1 The general performances of the trial seedlings in this reporting period (June 2020 to October 2020) are tabulated below:

Code of Species	Sub	Area A	1	Sub-	Area Az	2	Sub-Area B1	Sub-Area B2
E1	6/8,	Fair,	43cm	7/8,	Fair,	50cm	211 - 11 - 11	- 1
E2	4/8,	Poor,	36cm	8/8,	Poor,	33cm	a da si se 🗝 da si s	
E3	8/8,	Fair,	32cm	8/8,	Fair,	48cm	-	
E4	6/8,	Good,	83cm	8/8,	Good,	74cm		
E5	8/8,	Fair,	53cm	8/8,	Fair,	74cm		
E6	8/8,	Fair,	36cm	7/8,	Fair,	65cm	त्र संदेखी <b>म</b>	



Code of	Sula	Aug A1		Cule /			Cul	A D'		Cul		
Species		Area A1			Area A2			Area B		A CONTRACT A CONTRACT	Area B2	
N1 to N24	(Note	: Native s	eedling tr	ees to be	e planteo	d 1 year af	ter initia	I plantin	g of exotic	seedling	g trees ar	nd shrub
						seed	lings)					
S1	98%,	Fair,	34cm	85%,	Fair,	39cm	90%,	Poor,	42cm	100%,	Fair,	36cm
S2	97%,	Fair,	38cm	97%,	Good,	51cm	98%,	Fair,	47cm	100%,	Good,	46cm
S3	52%,	V.Poor,	20cm	80%,	Poor,	37cm	90%,	Poor,	29cm	80%,	Fair,	23cm
S4	82%,	Fair,	28cm	97%,	Good,	48cm	90%,	Fair,	41cm	100%,	Good,	29cm
S5	93%,	Fair,	31cm	93%,	Fair,	41cm	88%,	Fair,	48cm	95%,	Good,	40cm
S6	98%,	Poor,	29cm	75%,	Fair,	34cm	92%,	Poor,	38cm	98%,	Fair,	32cm
S7	93%,	Fair,	31cm	98%,	Fair,	37cm	90%,	Fair,	38cm	95%,	Fair,	40cm
S8	98%,	Fair,	30cm	100%,	Fair,	29cm	97%,	Fair,	34cm	95%,	Fair,	33cm
S9	97%,	Fair,	22cm	70%,	Fair,	29cm	90%,	Fair,	25cm	93%,	Good,	29cm
S10	88%,	Fair,	51cm	92%,	Fair,	54cm	78%,	Fair,	51cm	95%,	Fair,	57cm
S11	90%,	Fair,	29cm	88%,	Fair,	38cm	93%,	Fair,	47cm	98%,	Good,	39cm
S12	95%,	Poor,	33cm	83%,	Poor,	44cm	90%,	Fair,	38cm	93%,	Fair,	31cm

Note: the format of the tabulated data is as follows:

• (Survival rate), (General health), (Average height)

4.2 This is the first monitoring and data collection inspection for the Trial Nursery. The data collected will serve as the baseline for future comparisons. Detailed analysis with the collected data will be carried out at the end of each year.

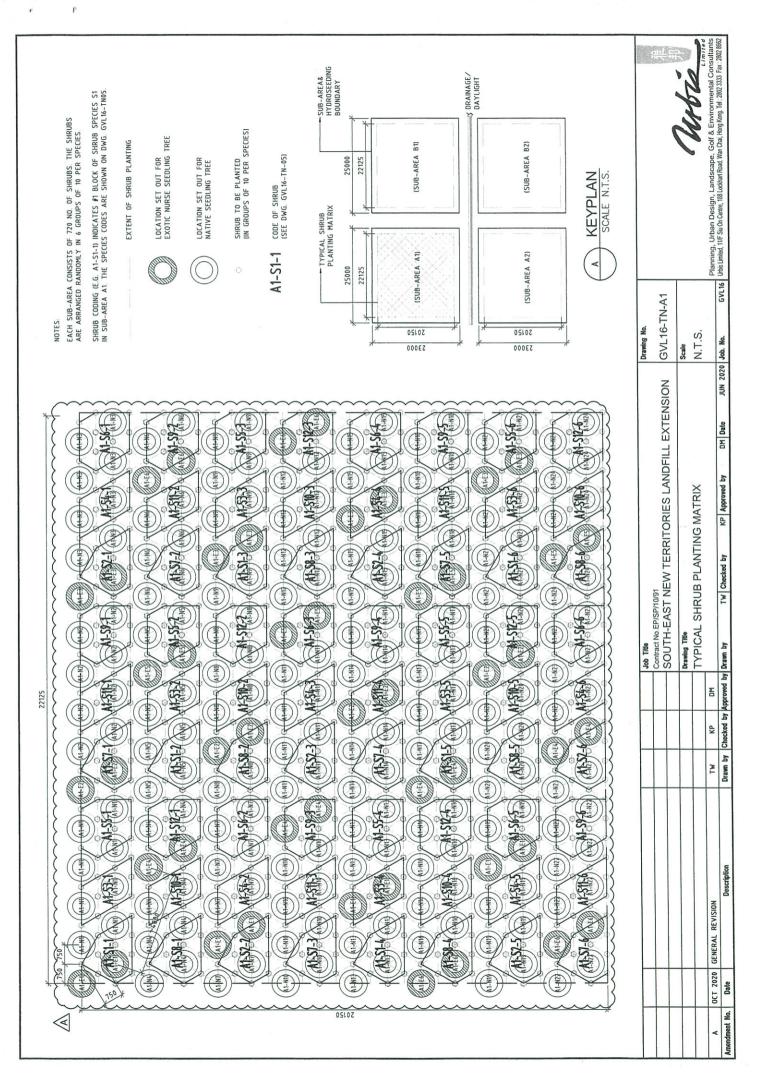
Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery Planting Monitoring Data Collection Report No. 1

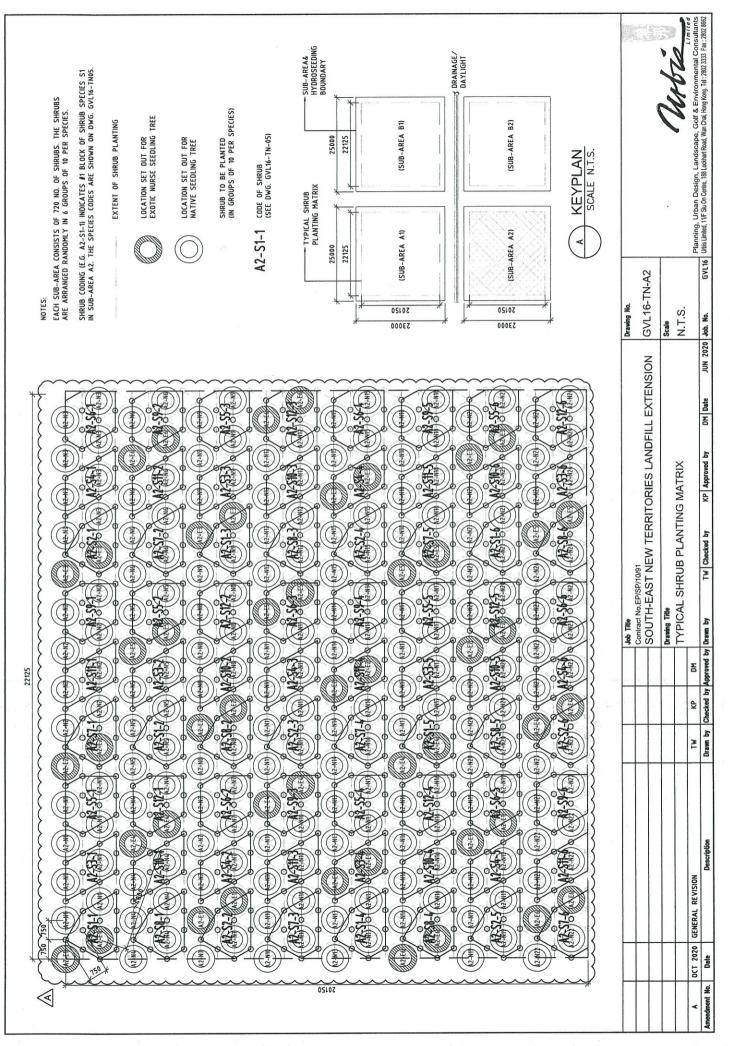
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## Appendix A

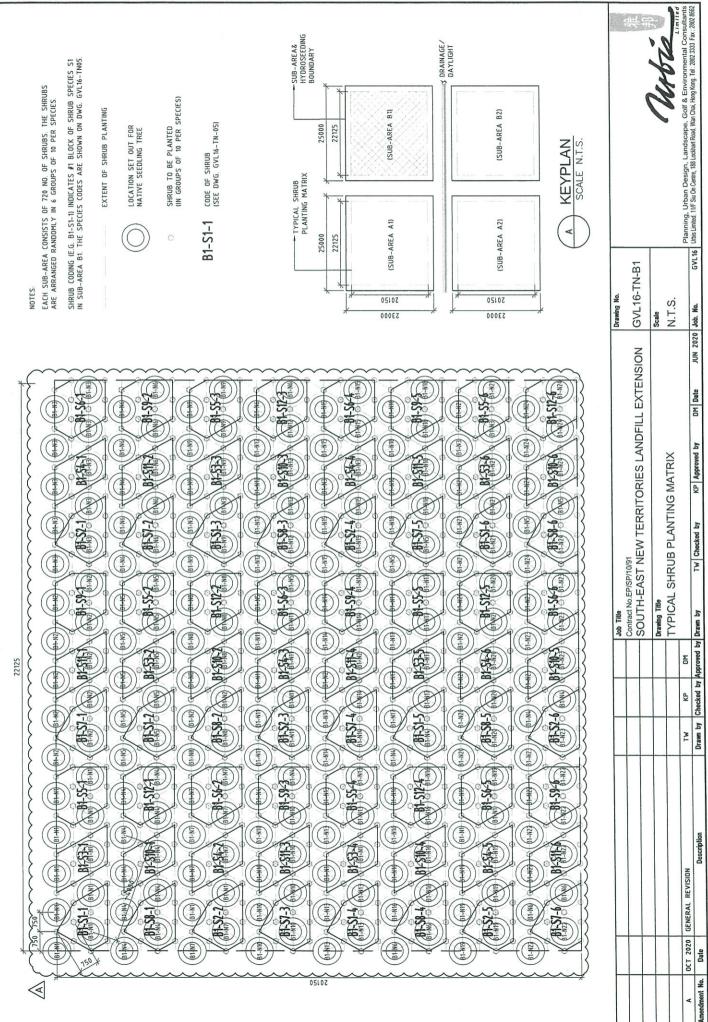
### **Updated Drawings for SENTX Trial Planting**

- Drawing No. GVL16-TN\_A1
- Drawing No. GVL16-TN\_A2
- Drawing No. GVL16-TN\_B1
- Drawing No. GVL16-TN\_B2



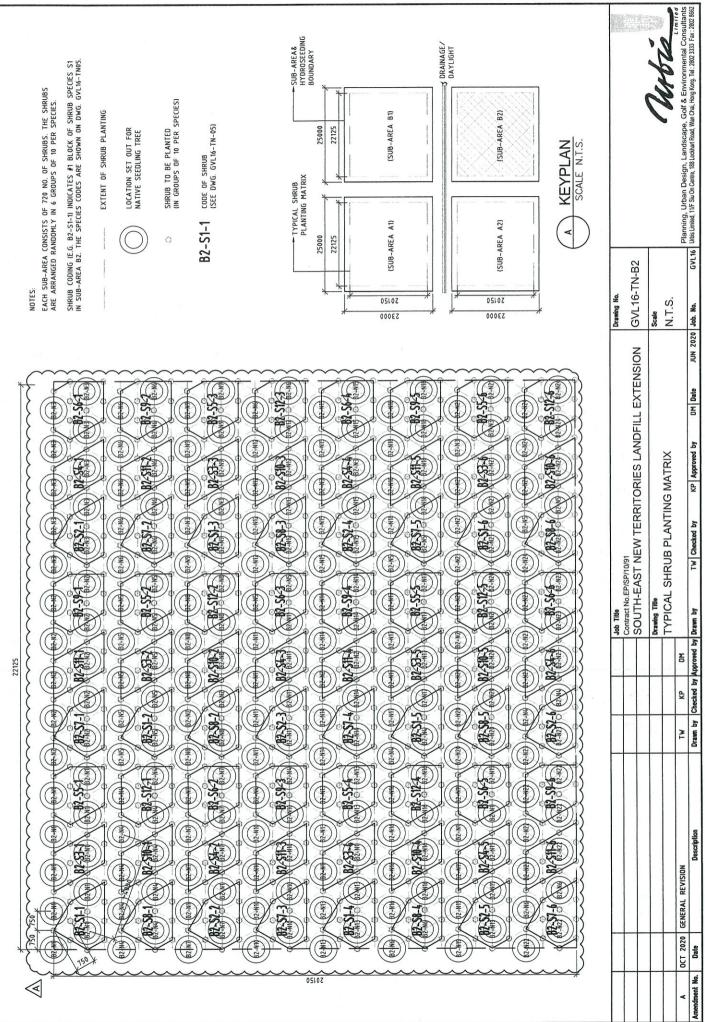


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#### **Appendix B**

#### **SENTX Trial Planting Monitoring Data Collection Forms**

- Form No. 2020-10\_A1
- Form No. 2020-10\_A2
- Form No. 2020-10\_B1
- Form No. 2020-10\_B2

te or moi	Date of Monitoring Inspection:	28 October 2020		Job No.: GVL16	Sub-area:	A1 (native seedli	(native seedling trees with MGT "SunFlex Greenhouse	use Define trees with MGT "SunFlex Greenhouse
Present: K	Kevin SIN						Grow Tube" & exotic nurse seedling trees) (native seedling trees with MGT "Rigid Corflute" & exotic nurse seedling trees)	
Exotic Trees								
Code Sci	Scientific Name	Chinese Name	Original Planted Ouantity	Survived Quantity	#Mean Height at Planting (cm)	<ul> <li>Mean Height at Monitoring (cm)</li> </ul>	^General Health (*-V.Poor, *****-V.Good)	Additional Description / Remarks
-	Acacia confusa	台灣相思	8	9	52cm	43cm	***	
1	Cassia nodosa	節果決明	8	4	61cm	36cm	<del>**</del>	
	Dalbergia odorifera	降香黃檀	8	0	39cm	32cm	***	
E4 Acc	Acacia auriculiformis	耳果相思	00	9	63cm	83cm	****	
-	Melia azedarach	苦棟	00	00	65cm	53cm	****	
E6 Ser	Senna siamea	鐵刀木	8	80	36cm	36cm	***	•
Notes: ^ For Native Trees	<ul> <li>For survived plants only, # Recorded in June 2020.</li> <li>Trees</li> </ul>	Recorded in June 202	20.					
-		_	Original Planted		Mean Height at	^Mean Height at	A General Health	
0	Scientific Name	Chinese Name	Quantity	Survived Quantity	Planting (cm)	Monitoring (cm)	(*-V.Poor, *****-V.Good)	Additional Description / Remarks
N1 Bri	Bridelia tomentosa	土蜜樹			•			
N2 Cel	Celtis sinensis	朴樹	•	1	•	-		
N3 Cin	Cinnamomum camphora	樟	1		•			
N4 Aqi	Aquilaria sinensis	土沉香		1				
N5 Fic	Ficus virens	黃葛樹	-		10 10			
N6 Hit	Hibiscus tiliaceus	黄槿	1	•			4	
N7 Ilex	llex rotunda var. microcarpa	pa 小果鐵冬青					1	
	Liquidambar formosana		-				-	
N9 Lits	Litsea glutinosa	屠稿樹		• • •	•		1	•
N10 Ma	Machilus chekiangensis	浙江潤楠	-		•			
N11 Ma	Macaranga tanarius	血桐			•			
N12 My	Myrica rubra	楊梅						
N13 Rh	Rhodoleia championi	紅苞木			-		-	
N14 Po	Polyspora axillaris	大頭茶	-			-		•
N15 Poi	Pongamia pinnata	水黃皮	•			1		
N16 Pyr	Pyrus calleryana	豆梨	•					
N17 Ree	Reevesia thursoidea	核羅樹	•			-	1	
N18 Rh	Rhus succedanea	野漆樹	•				1	
N19 Sal	Sapium discolor	山鳥柏			•			
N20 Saj	Sapium sebiferum	烏伯					-	•
N21 Kei	Keteleeria fortunei	油杉						
N22 Ste	Sterculia lanceolata	假蘋婆		1 1	,	-	1	•
1	Syzygium hancei	韓氏蒲桃	•	1			T.	
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2020-10\_A1 Form No.:

1         Buous striter         被領令         Nature         9%         34m         ************************************		Chinese Name	Origin	Approx. Survival %	Average Height at Monitoring (cm)	^General Health (*-V.Poor, ****-V.Good)	Additional Description / Remarks
6         前接張         Exotic         9%         36.m         ····           前茶竹         Exotic         5%         2%         0.m         ····           前茶竹         Exotic         5%         2%         0.m         ····           前茶竹         Exotic         95%         31cm         ····         ····           前松村         Native         95%         31cm         ····         ····           前松村         Native         95%         31cm         ····         ····           市松松         Native         95%         31cm         ····         ····           前板松         Native         95%         33cm         ····         ····           前板松         Native         95%         33cm         ····         ····           前板板市         95%         33cm         ····         ····         ····           前板板市         95%         33cm         ····         ····         ····           前板板市         95%         33cm         ····         ····         ····           小         Native         95%         33cm         ····         ····           小         Native         95%         33cm	+	遺楊	Native	98%	34cm	***	Generally yellowish foliage.
新美利         Exotic         22%         2000         *           消洗洗中         Native         22%         25000         ****           消洗洗中         Native         93%         31000         ****           前所         Native         93%         31000         ****           前所         Native         93%         31000         ****           前所         Native         93%         31000         ****           前期         Native         93%         3000         ****           前期         Native         95%         3000         ****           前期         Native         95%         3500         ****           Native         95%         3500         ****           Native         95%         3500         ****           Native<	1	紅絨球	Exotic	97%	38cm	***	
海腦粥牛         Native         82%         28cm (length)         ***           1000000000000000000000000000000000000	1	希美利	Exotic	52%	20cm	*	Condition seems to have generally declined since the last inspection (a month ago).
転転         三本(1)         310m         11           市田木         98%         30m         10m           市田木         Native         98%         30m         10m           市田木         Native         98%         31m         10m           市田木         Native         98%         31m         10m           東海田秋         Native         98%         51m         10m           東北市         Native         88%         51m         10m           東北市         Native         90%         32m         10m           東北市         Native         90%         33m         10m           東北市         Native         95%         33m         10m           小田村         Native         95%         33m         10m           小田         Native         95%         33m         10m           Nodelia trilobata         Stania splatin         10mon         10mon           Medelia trilobata         <	-	海灘牽牛	Native	82%	28cm (Length)	***	Some in flowering. (Note: length instead of height of the species is measured as it is more indicative to the performance due to its prostrate growth form.)
海病         5000         3000         ***           「豆形木」         Native         93%         3100         ***           「豆形木」         Native         93%         3100         ***           「飯金飯」         Native         98%         510         ***           「飯金飯」         Native         98%         510         ***           「飯飯飯飯都下」         Native         90%         2500         ***           「飯飯飯飯都丁」         Native         90%         2500         ***           「飯畑<	+	紅杜鵑	Native	93%	31cm	***	
百班卡         Native         93%         31cm         ***           桃金娘         Native         98%         30cm         ***           桃金娘         Native         98%         51cm         ***           柳蕊胡枝子         Native         98%         51cm         ***           東蕊胡枝子         Native         96%         33cm         ***           東淡湖         Native         95%         33cm         ***           東淡湖         Native         95%         33cm         ***           東湖         Native         95%         33cm         ***           「夏翁山         Native         95%         33cm         ***           「「「「」」」         Native         95%         33cm         ***           「「「」」」         Native         95%         33cm         ***           「「「」」         Native         95%         33cm         ***           「「「」」         Native         95%         33cm         ***           「「」」         Native         95%         33cm         ***           「「」」         「」」」         Native         ***         ***           「「」」         「」」」         「」」」         ***         <		海桐	Exotic	98%	29cm	**	Generally yellowish foliage.
航金板         Native         98%         300m         ****	1.1	石斑木	Native	93%	31cm	***	Majority of plants have only foliage concentrated at the tip of shoots.
回販店販売         Exotic         97%         22cm         ····           美麗坊状子         Native         88%         51cm         ····           黄嶺道秋子         Native         80%         23cm         ····           黄嶺道秋         Native         90%         23cm         ····           丁田菜Ğ前         Native         95%         33cm         ····		桃金娘	Native	98%	30cm	***	
実能的技手         Native         88%         51cm         ***           資気         Native         90%         29cm         ***           資気         Native         95%         33cm         ***           「東浜変通」         Native         95%         33cm         ***           「Cynodon dactyton (Good), Paspolum notatum (Good) etc.         **         **         **           Cynodon dactyton (Good), Paspolum notatum (Good) etc.         **         **         **           Indition:         Leucoend leucocephala (Minor), Mikania micrantha (Minor)         **         **           Ni.         Ni.         *         *         **           Ni.         *         *         *         *           Addition:         Leucoena leucocephala (Minor), Mikania micrantha (Minor)         *         *           Ni.         *         *         *         *           Ni.         *         *         *         *           Ition of the Trial Planting and Trial Nursery         *         *         *           Ition of the Trial Planting and rading from very poor to fait.         *         *         *           Ition of the Trial Planting are ranging from very poor to fait.         *         *         *		顯脈馬鞭草	Exotic	97%	22cm	***	
黄油     Native     90%     29cm     ***       東菜菱油     Native     95%     33cm     **       「Cynodon dacty/on (Good), Paspalum notatum (Good) etc.     ***     ***       Cynodon dacty/on (Good), Paspalum notatum (Good) etc.     **     **       Wedelia trilobata, Setaria spp. Bidens alba etc.     ***     ***       Indition:     Leucaena leucocephala (Minor), Mikania micrantha (Minor)     **       Nil.     **     **       Nil.     **     **       Itian of the Trial Planting and Trial Nursery     **       Itian of the Trial Planting and Trial Nursery     **       Itian of the Trial Planting and Trial Nursery     **       Itian of the Trial Planting and Trial Nursery     **       Itian of the Trial Planting and Trial Nursery     **       Itian of the Trial Planting and Trial Nursery     **       Itian of the Trial Planting and Trial Nursery     **       Itian of the Trial Planting and Trial Nursery     **       Itian of the Trial Planting and Trial Nursery     **       Itian of the Trial Planting and Trial Nursery     **       Itian of the Trial Planting and Trial Nursery     **		美麗胡枝子	Native	88%	51cm	***	Relatively varied size and health condition were observed among individuals of this species.
		護期	Native	%06	29cm	****	
Cynodo Cynodo Nil. Nil. S Carried C	+	單葉蔓荊	Native	95%	33cm -	*	All seedling stocks were supplied in topped form.
Cymodo Cymodo ndition: Nii. Nii. S Carried C	Notes: ^ For survived plants only.						
Cynodo Cynodo Wedelti Nil. Nil. S Carried C	Hvdroseedina						
Cynodo Wedelic ndition: Nil. Nil. S Carried C							
Wedelic ndition: Nil. Nil. S Carried C		Cynodon dactylon (C	sood), Paspalum	notatum (Good)	etc.		
Wedelic ndition: Nii. Nii. S Carried S s Carried C							
Wedelic ndition: Nii. Nii. e planted s s Carried C	Others						
	18	Wedelia trilobata, Sé	taria spp., Bider	rs alba etc.			
Additional Description / Remarks: NI. General Description of the Condition of the Trial Planting and Trial Nursery General Description of the Conditions of the Planted seedlings are ranging from very poor to fair. • Overall health conditions of the planted seedlings are ranging from very poor to fair. Special Observations • Indiant of Establishment Works Carried Out during Last Monitoring Session • Indiant of Establishment Works Carried Out during Last Monitoring Session	Noxious Weeds Present & Their Condi	120.00	ucocephala (Min	vor), Mikania micro	antha (Minor)		
General Description of the Trial Planting and Trial Nursery         • Overall health conditions of the planted seedlings are ranging from very poor to fair.         • Descriptions         Special Observations         • Infigation with automatic infigation system on timer control:		U.					
Overall health conditions of the planted seedlings are ranging from very poor to fait.     Special Observations     immary of Establishment Works Carried Out during Last Monitoring Session     Irrigation with automatic irrigation system on timer control;	General Description of the Condition	n of the Trial Planti	ng and Trial Nu	irsery			
Special Observations         Summary of Establishment Works Carried Out during Last Monitoring Session         • Irrigation with automatic irrigation system on timer control;	Overall health conditions of the p	lanted seedlings are	ranging from vi	ery poor to fair.			
<ul> <li>Special Observations</li> <li>Inigation Works Carried Out during Last Monitoring Session</li> <li>Inigation with automatic inigation system on timer control;</li> </ul>							
Summary of Establishment Works Carried Out during Last Monitoring Session         • Irrigation with automatic irrigation system on timer control;	Special Observations						
Irrigation with automatic irrigation system on timer control;	Summary of Establishment Works C	arried Out during L	ast Monitoring	Session			
	<ul> <li>Irrigation with automatic irrigation system on timer</li> <li>Installation of weed mat for each planted seedlings.</li> </ul>	n system on timer co planted seedlings.	introl;				





Sub-area Code: A1 Site Tree Photographs – Native Species	cles				
(Not applicable)	(Not applicable)	(Not applicable)	(Not applicable)	(Not applicable)	(Not applicable)
N1 Bridelia tomentosa	N2 Celtis sinensis	N3 Cinnamomum camphora	N4 Aquilaria sinensis	NS Ficus virens	NG Hibiscus tiliaceus
(Not applicable)	(Not applicable)	(Not applicable)	(Not applicable)	(Not applicable)	(Not applicable)
N7 Ilex rotunda vai. microcarpa	N8 Liquidambar formosana	N9 Litsea alutinosa	N10 Machilus chekiangensis	N11 Macaranaa tanarius	N12 Myrica rubra

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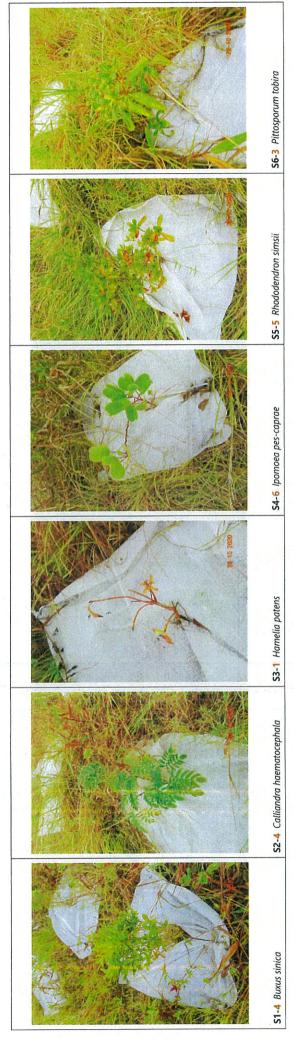
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Sub-area Code: A1 Site Tree Photographs – Native Species	:ies				
(Not applicable)	(Not applicable)	(Not applicable)	(Not applicable)	(Not applicable)	(Not applicable)
N13 Rhodoleia championi	N14 Polyspora axillaris	N15 Pongamia pinnata	N16 Pyrus calleryana	N17 Reevesia thyrsoidea	N18 Rhus succedanea
(Not applicable)	(Not applicable)	(Not applicable)	(Not applicable)	(Not applicable)	(Not applicable)
N10 Canitum discolar	N20 Sanium sehiferum	N21 Keteleeria fortunei	N22 Sterculia lanceolata	N23 Syzygium hancei	N24 Viburnum odoratissimum

Page 6 of 8

Sub-area Code: A1

Site Shrub Photographs





\* For instance, S1-1 represents 1# block of shrub species S1 within the corresponding Sub-area.

Form No.: 2020-10\_A1

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	Date of Monitoring Inspection:	28 October 2020		Job No.: GVL16	Sub-area:	<b>A1</b> (native seed Grow Tube	(native seedling trees with MGT "SunFlex Greenhouse Grow Tube" & exotic nurse seedling trees)	Greenhouse	B1 (native seedling trees with MGT "SunFlex Greenhouse Grow Tube" & WITHOUT exotic nurse seedling trees)
Present:	Freddy WAN					A2 (native seedling trees nurse seedling trees)	(native seedling trees with MGT "Rigid Corflute" & exotic nurse seedling trees)	flute" & exotic 🛛	B2 (native seedling trees with MGT "Rigid Corflute" & WITHOUT exotic nurse seedling trees)
Exotic Trees	ces								
Code	Scientific Name	Chinese Name	Original Planted Quantity	Survived Quantity	#Mean Height at Planting (cm)	<ul> <li>Mean Height at Monitoring (cm)</li> </ul>	^General Health (*-V.Poor, ****-V.Good)		Additional Description / Remarks
EI	Acacia confusa	台灣相思	∞	7	43cm	50cm	***	3	
E2	Cassia nodosa	節果決明	œ	80	42cm	33cm	**		
B	Dalbergia odorifera	降香黃檀	œ	8	41cm	48cm	***		
E4	Acacia auriculiformis	耳果相思	œ	8	53cm	74cm	****		
ES	Melia azedarach	苦棟	8	8	63cm	74cm	***		
E6	Senna siamea	鐵刀木	00	7	32cm	65cm	***		•
Notes: A For Native Trees	^ For survived plants only. # Kecorded in June ∠UZU Trees	Kecorded in June 20.	0						
Code	Scientific Name	Chinese Name	Original Planted Quantity	Survived Quantity	Mean Height at Planting (cm)	^Mean Height at Monitoring (cm)	^General Health (*-V.Poor, ****-V.Good)		Additional Description / Remarks
١	Bridelia tomentosa	土蜜樹							
N2	Celtis sinensis	朴樹	•	•	•	,			•
N3	Cinnamomum camphora	樟	•		•		1		
N4	Aquilaria sinensis	土沉香		1	-				E
N5	Ficus virens	黃葛樹	•			-			-
N6	Hibiscus tiliaceus	黄槿	-		1				
N7	llex rotunda var. microcarpa	a 小果鐵冬青	•			1			
N8	Liquidambar formosana	楓香		-		1			
6N	Litsea glutinosa	潺禞樹		-			-		
N10	Machilus chekiangensis	浙江潤楠					•		
N11	Macaranga tanarius	血桐	-						1
N12	Myrica rubra	楊梅	1	1	-	ł	•		•
N13	Rhodoleia championi	紅苞木	-	-		•	•		
N14	Polyspora axillaris	大頭茶					•	-	
N15	Pongamia pinnata	水黄皮				•	•		
N16	Pyrus calleryana	豆梨				•			
N17	Reevesia thyrsoidea	棱羅樹		-		•	1		
N18	Rhus succedanea	野漆樹	-	-	-	1			•
N19	Sapium discolor	山烏桕				•			
NZO	Sapium sebiferum	烏伯							
N21	Keteleeria fortunei	油杉	-	-		ı			•
N22	Sterculia lanceolata	假頻婆	-	-			•		•
N23	Syzygium hancei	韓氏蒲桃	•	•	•	•	•		
P CIN		THE TAT LAL							

Contract No. EP/SP/10/91 – South East New Territories Landfill Extension (SENTX)	
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erritories La	Collectio
New 7	Data
1 – South East	SENTX Trial Planting Monitoring Data Collection Form
EP/SP/10/9	Planting
Contract No.	SENTX Tria

# 2020-10\_A2 Form No.:

Code	Scientific Name	Chinese Name	Origin	Approx. Survival %	Average Height at Monitoring (cm)	^General Health (*-V.Poor, *****-V.Good)	Additional Description / Remarks
S1	-	黄楊	Native	85%	39cm	***	Leaves generally turning brown at tips and edges.
S2	Calliandra haematocephala	紅絨球	Exotic	81%	51cm	****	
S3	Hamelia patens	希美利	Exotic	80%	37cm	*	Foliage density turned lower since planting on-site.
S4	Ipomoea pes-caprae	海灘牽牛	Native	%16	48cm (Length)	****	(Note: length instead of height of the species is measured as it is more indicative to the performance due to its prostrate growth form.)
SS	Rhododendron simsii	紅杜鵑	Native	93%	41cm	***	
S6	Pittosporum tobira	海桐	Exotic	75%	34cm	***	Generally yellowish foliage.
S7	Rhaphiolepis indica	石斑木	Native	98%	37cm	***	
S8	Rhodomyrtus tomentosa	桃金娘	Native	100%	29cm	***	
S9	Verbena rigida	顯脈馬鞭草	Exotic	%02	29cm	***	Generally only one shoot per plant and most tended to be covered by surrounding grasses and self-seeded plants.
S10	Lespedeza formosa	美麗胡枝子	Native	92%	54cm	***	Contrasting performances among individuals of this species.
S11	Vitex negundo	漢刑	Native	88%	38cm	***	Contrasting performances among individuals of this species.
S12	Vitex rotundifolia	單葉藝荊	Native	83%	44cm	**	All seedling stocks were supplied in topped form.

Grass Cover %: 100%	
Species Present & Their Condition: Cynodon dactylon (Good), Paspalum notatum (Good) etc.	
Others	
Naturally Regenerated Vegetation: Wedelia trilobata, Setaria spp., Bidens alba etc.	
Noxious Weeds Present & Their Condition: Leucaena leucocephala (Minor), Mikania micrantha (Minor)	
Additional Description / Remarks: Nil.	
General Description of the Condition of the Trial Planting and Trial Nursery	
<ul> <li>Overall health conditions of the planted seedlings are ranging from poor to good;</li> <li>In some areas the hydroseeded grasses had grown taller than 500mm, which covered and suppressed the growth of some seedlings of the trial plants.</li> <li>Gate of the sub-area is deformed and requires maintenance.</li> </ul>	
Special Observations	
Some notable self-seeded plants are found, such as Mimosa pudica which might form dense groundcover and sometimes suppress trial plants. Some nests of Red Imported Fire Ant are found.	
Summary of Establishment Works Carried Out during Last Monitoring Session	
Irrigation with automatic irrigation system on timer control;	

Page 2 of 10



Installation of weed mat for each planted seedlings (~50% completion as of the date of this inspection).

,



Form No.: 2020-10\_A2

Photographs – General Conditions of the Trial Nursery

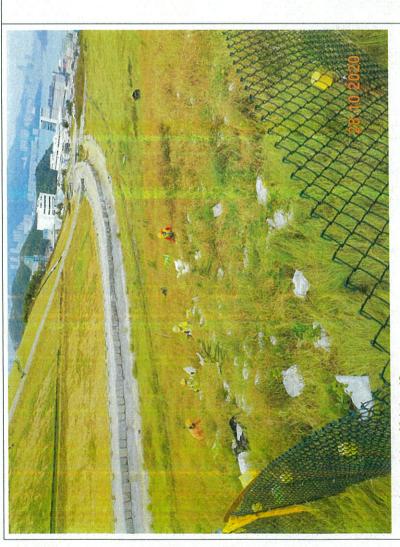


Photo 1 | General view of Sub-Area A2

Form No.: 2020-10\_A2

Sub-area Code: A2

Site Tree Photographs – Exotic Species



Page 5 of 10

Sub-area Code: A2

Site Tree Photographs – Native Species

setter (* 1997) Se Statistical (* 1997) Statistical (* 1997)		
(Not applicable)	N6 Hibiscus tiliaceus	(Not applicable)
	NG Hibis	
(Not applicable)	2	(Not applicable)
2 	N5 Ficus virens	2
(Not applicable)	N4 Aquilaria sinensis	(Not applicable)
(Not applicable)	N3 Cinnamomum camphora N4	(Not applicable)
(Not applicable)	N2 Celtis sinensis	(Not applicable)
(Not applicable)	N1 Bridelia tomentosa	(Not applicable)

Form No.: 2020-10\_A2

Page 6 of 10

N12 Myrica rubra

N11 Macaranga tanarius

N10 Machilus chekiangensis

N9 Litsea glutinosa

N8 Liquidambar formosana

N7 Ilex rotunda var. microcarpa

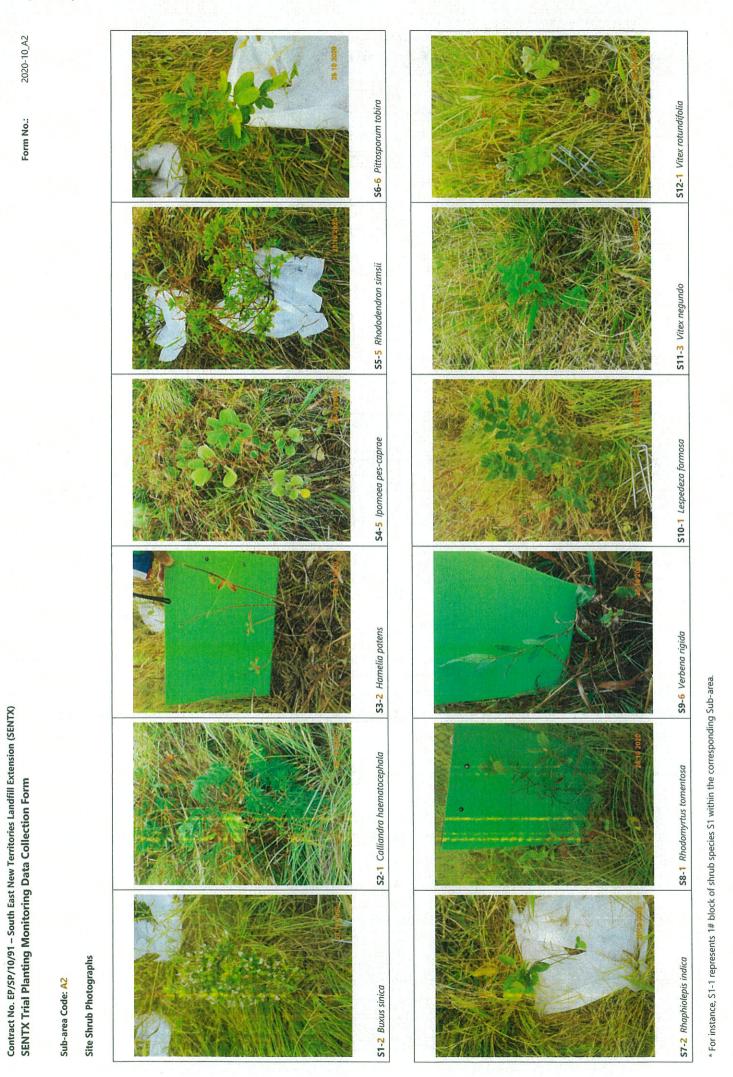
Form No.: 2020-10\_A2

Sub-area Code: A2

Site Tree Photographs – Native Species

ble) N16 Pyrus N22 Stercu	(Not applicable) (Not	N14 Polyspora axillaris N15 Pongamia pinnata	(Not applicable)	N20 Sapium sebiferum N21 Keteleeria fortunei
	(Not applicable) (Not applicable)		(Not applicable) (Not applicable)	ortunei NZZ Sterculia lanceolata
	(Not applicable)	N18 Rhus succedanea	(Not applicable)	N24 Viburnum odoratissimum

Page 7 of 10



Page 8 of 10

Form No.: 2020-10\_A2



Page 9 of 10





Page 10 of 10

	Date of Monitoring Inspection:	28 October 2020		Job No.: GVL16	Sub-area:	□ A1 (native seedl Grow Tube"	A1 (native seedling trees with MGT "SunFlex Greenhouse Grow Tube" & exotic nurse seedling trees)	D	<b>B1</b> (native seedling trees with MGT "SunFlex Greenhouse Grow Tube" & WITHOUT exotic nurse seedling trees)
Present:	Anny Li					□ A2 (native seedling trees nurse seedling trees)	native seedling trees with MGT "Rigid Corflute" & exotic nurse seedling trees)	<b>D</b> B2	(native seedling trees with MGT "Rigid Conflute" & WITHOUT exotic nurse seedling trees)
Exotic Trees	38								
Code	Scientific Name	Chinese Name	Original Planted Quantity	Survived Quantity	Mean Height at Planting (cm)	AMean Height at Monitoring (cm)	^General Health (*-V.Poor, *****-V.Good)	Additional	Additional Description / Remarks
	Acacia confusa	台灣相思							· · · · · · · · · · · · · · · · · · ·
	Cassia nodosa	節果決明							
B	Dalbergia odorifera	降香黃檀				9			
E4	Acacia auriculiformis	耳果相思	-		- 11 - 11 - 11 - 11 - 11 - 11 - 11 - 1	4	-		1
ES	Melia azedarach	苦棟					-		1
E6	Senna siamea	鐵刀木	1						
Notes: ^ For s Native Trees	<ul> <li>For survived plants only.</li> </ul>								
			Original Planted		Mean Height at	- William	AGeneral Health		
0	Scientific Name	Chinese Name	Quantity	Survived Quantity	Planting (cm)	Monitoring (cm)	("-V.Poor, """-V.Good)	Additional D	Additional Description / Remarks
1	Bridelia tomentosa	工筆例			•		1		
-	Celtis sinensis	朴樹				1	•		
	Cinnamomum camphora	樟	1- 1-		•				
N4	Aquilaria sinensis	土沉香			•				
N5	Ficus virens	黃葛樹	2		-	-			
N6	Hibiscus tiliaceus	黄槿					1		
N7	Ilex rotunda var. microcarpa	pa 小果鐵冬青	•						
	Liquidambar formosana		1	•		4			
6N	Litsea glutinosa	瀑稿樹					-		
N10	Machilus chekiangensis	浙江潤楠							
N11	Macaranga tanarius	血桐			11		-		
N12	Myrica rubra	楊梅					1		
N13	Rhodoleia championi	紅苞木					1		
N14	Polyspora axillaris	大頭茶				-			
N15	Pongamia pinnata	水黄皮			-	· · · · · · · · · · · · · · · · · · ·			
N16	Pyrus calleryana	豆梨				1			1
N17	Reevesia thyrsoidea	梭羅樹					1		
1.74	Rhus succedanea	野漆樹		1.1					
	Sapium discolor	山鳥柏			1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	1	•		
1.1	Sapium sebiferum	烏柏							
	Keteleeria fortunei	油杉							
	Sterculia lanceolata	假蘋婆		199			-		-
1	Svzvaium hancei	韓氏蒲桃							
1	Vihurnum odoratissimum					•	-		

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Contract No. EP/SP/10/91 – South East New Territories Landfill Extension (SENTX)	SENTX Trial Planting Monitoring Data Collection Form		

2020-10\_B1 Form No.:

Condition seems to have generally declined since the last inspection (a month ago). Additional Description / Remarks Appear to be adaptive to Site. Some in flowering. Performance varies from group to group. Fast growing, some in flowering. Appear to be adaptive to Site. Generally yellowish foliage. All topped. All topped. (\*-V.Poor, \*\*\*\*-V.Good) General Health ŧ \*\*\* \*\*\* \*\*\* \*\*\* \*\*\* ŧ \*\*\* \*\*\* ‡ \* \$ Average Height at Monitoring (cm) 41cm (Length) 38cm 47cm 29cm 38cm 34cm 25cm 47cm 38cm 42cm 48cm 51cm Approx. Survival % 98% %06 -%06 %06 80% %06 88% 92% 80% 97% 78% 93% Native Native Native Native Native Native Native Origin Native Exotic Exotic Exotic Exotic Chinese Name 美麗胡枝子 顯脈馬鞭草 單葉蔓荊 海灘牽牛 石斑木 桃金娘 希美利 紅杜鵑 紅絨球 海桐 造荊 遺楊 Calliandra haematocephala Rhodomyrtus tomentosa Rhododendron simsii Ipomoea pes-caprae Rhaphiolepis indica Pittosporum tobira Lespedeza formosa S12 Vitex rotundifolia Hamelia patens Scientific Name Verbena rigida Vitex negundo Buxus sinica Code Shrubs S11 S10 S6 S7 S8 S1 S2 S3 S4 S5 S9

Notes: ^ For survived plants only. Hydroseeding Grass Cover %: 100% Species Present & Their Condition: <i>Cynodon dactylon</i> (Good), <i>Paspalum notatum</i> (Good) etc.								
Hydroseeding Grass Cover %: 100% Species Present & Their Condition: Cynodon dactylon (Good								
Hydroseeding Grass Cover %: 100% Species Present & Their Condition: Cynodon dactylon (Good								
Grass Cover %: 100% Species Present & Their Condition: Cynodon dactylon (Good								
Species Present & Their Condition: Cynodon dactylon (Good								
	d), Paspalum notat	um (Good) etc.						
Others								
Naturally Regenerated Vegetation: Wedelia trilobata, Setaria spp., Bidens alba etc.	ia spp., Bidens alba	etc.						
Noxious Weeds Present & Their Condition: Leucaena leucocephala (Minor), Mikania micrantha (Minor)	cephala (Minor), M	ikania micranth	a (Minor)					
Additional Description / Remarks: Nil.								
General Description of the Condition of the Trial Planting and Trial Nursery	and Trial Nursery							
Overall health conditions of the planted seedlings are ranging from poor to fair.	iging from poor to	fair.						

Summary of Establishment Works Carried Out during Last Monitoring Session

Watering (frequency and volume not reported), weed mats have been installed to suppress weeds grown around the seedlings.

Page 2 of 9



2020-10\_B1 Form No.:

Photographs – General Conditions of the Trial Nursery



Form No.: 2020-10\_B1

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Sub-area Code: 81

Site Tree Photographs – Exotic Species

(Not applicable)	E6 Senna siamea
(Not applicable)	E5 Melia azedarach
(Not applicable)	E4 Acacia auriculiformis
(Not applicable)	E3 Dalbergia odorifera
(Not applicable)	E2 Cassia nodosa
(Not applicable)	E1 Acacia confusa

Page 4 of 9

Form No.: 2020-10\_B1

Sub-area Code: 81

Site Tree Photographs – Native Species

(Not applicable)	N6 Hibiscus tiliaceus
(Not applicable)	N5 Ficus virens
(Not applicable)	N4 Aquilaria sinensis
(Not applicable)	N3 Cinnamomum camphora
(Not applicable)	N2 Celtis sinensis
(Not applicable)	N1 Bridelia tomentosa

1-1-1		<u></u>
	(Not applicable)	bra
	NZ)	N12 Myrica rubra
	cable)	rius
	(Not applicable)	N11 Macaranga tanarius
	(Not applicable)	kiangensis
	(Not a	<ul><li>N10 Machilus chekiangensis</li></ul>
		N10
	(Not applicable)	nosa
	Ž	N9 Litsea glutinosa
	(Not applicable)	N8 Liquidambar formosana
		N8 Liqui
	sa san Péranta	
	(Not applicable)	N7 llex rotunda var. microcarpa
		N7 I

Page 5 of 9

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2020-10\_B1

Form No.:

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Sub-area Code: 81

(Not applicable)	N18 Rhus succedanea	(Not applicable)
(Not applicable)	N17 Reevesia thyrsoidea	(Not applicable)
(Not applicable)	N16 Pyrus calleryana	(Not applicable)
(Not applicable)	N15 Pongamia pinnata	(Not applicable)
(Not applicable)	N14 Polyspora axillaris	(Not applicable)
(Not applicable)	N13 Rhodoleia championi	(Not applicable)

N24 Viburnum odoratissimum

N23 Syzygium hancei

N22 Sterculia lanceolata

N21 Keteleeria fortunei

N20 Sapium sebiferum

N19 Sapium discolor

Sub-area Code: B1

Site Shrub Photographs





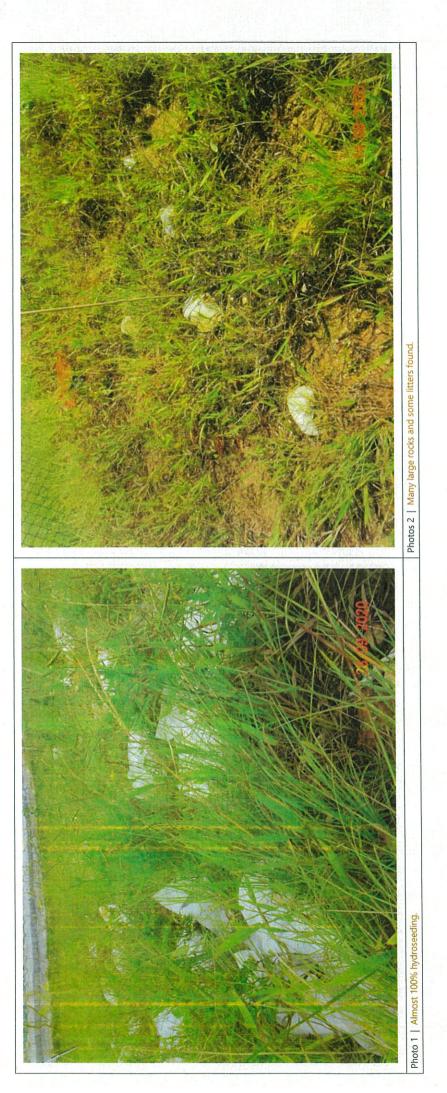
\* For instance, S1-1 represents 1# block of shrub species S1 within the corresponding Sub-area.

2020-10\_B1 Form No.:

Page 7 of 9



Photographs – Hydroseeding and Ground Conditions



Page 8 of 9

2020-10\_B1 Form No.:



Date of Montoling Inspection.	000 rodoto 000		Inh No . GVI 16	Suh-aroa.	A1 (mation	A1 (antine coolline trace with MCT "CunElow Groothours	20 Di Instino cooding troce with MCT "CunElay Greenhouse
	28 UCTODEL 2020			oup-aiea.		native seedling trees with Mol ' SunFlex Greenhou Grow Tube" & exotic nurse seedling trees)	2
Present: Kity PANG					□ A2 (native seedling trees nurse seedling trees)	(native seedling trees with MGT "Rigid Corflute" & exotic nurse seedling trees)	exotic I B2 (native seedling trees with MGT "Rigid Corflute" & WITHOUT exotic nurse seedling trees)
Exotic Trees							
Code Scientific Name	Chinese Name	Original Planted Ouantity	Survived Quantity	Mean Height at Planting (cm)	^Mean Height at Monitoring (cm)	^General Health (*-V.Poor, *****-V.Good)	Additional Description / Remarks
	台灣相思				1		
	節果決明				•		
	降香黃檀		•				
	耳果相思	14					
	苦棟			•			
E6 Senna siamea	鐵刀木					1	
Notes: ^ For survived plants only.							
Native Trees							
Code Scientific Name	Chinese Name	Original Planted Quantity	Survived Quantity	Mean Height at Planting (cm)	^Mean Height at Monitoring (cm)	^General Health (*-V.Poor, *****-V.Good)	Additional Description / Remarks
-	土蜜樹						
N2 Celtis sinensis	朴樹			•	-		
N3 Cinnamomum camphora	樟			•		•	
N4 Aquitaria sinensis	上沉香	•					
N5 Ficus virens	黃葛樹				-		
N6 Hibiscus tiliaceus	黃槿	•			•	•	
N7 Ilex rotunda var. microcarpa	rpa 小果鐵冬青						
N8 Liquidambar formosana	楓香						
N9 Litsea glutinosa	<b>泽稿街</b>			•			•
N10 Machilus chekiangensis	浙江潤楠		2	•		•	
N11 Macaranga tanarius	血桐			•			
	楊梅				•		
	紅苞木	•					
	大頃余						
	小現以						
-	立米						
N11 Rhis succedanea	野茶樹						
-	山烏柏					1	
	烏柏					1	
N21 Keteleeria fortunei	油杉				1		
N22 Sterculia lanceolata	假頻婆	•	1	1			
N23 Syzygium hancei	韓氏蒲桃				•		
	and the second s						

(SENTX)	
Extension	
andfill I	n Earn
rritories l	"allocatio
New Te	Dated
uth East	idonino bi
/91 - So	a Mon
:P/SP/10/9	Dismein
ct No. El	V Tuin
Contra	CENTY

	Origin Native Exotic Exotic Exotic Native Native Native Native Native Native Native Native Native A	Approx. Survival % 100% 80% 95% 95% 95% 95% 95% 95% 93% 93%	Average Height at Monitoring (cm) 36cm 46cm	AGeneral Health	
	Native Exotic Exotic Native Native Exotic Native Exotic Native Native Native Native Native Native Native	100% 80% 95% 95% 95% 93% 93% 93% 93%	36cm 46cm 23cm	(*-V.Poor; ****-V.Good)	Additional Description / Remarks
	Exotic Exotic Exotic Exotic Altive Native Exotic Native Exotic Native Exotic Native Native Native Native Native Altive Altive Native Altive Statute Altive Exotic Exotic Exotic Exotic Altive Native Altive Native Native Exotic E	100% 80% 95% 98% 95% 93% 93% 93%	46cm 23cm	***	Generally yellowish foliage.
	Exotic Native Native Exotic Exotic Exotic Exotic Native Native Native Native Native Native Native Ative Native Nat	80% 100% 98% 95% 95% 95% 93%	23cm	****	
	Native Native Exotic Exotic Exotic Native Native Native Native Native Native Native Native Native Al, Pospalum n	100% 95% 95% 95% 95% 93%		***	Foliage turned red or orange.
	Native Exotic Native Exotic Native Native Native Native Native	95% 95% 95% 95% 93% 93%	29cm (Length)	****	Some in flowering.
	Exotic Exotic Native Native Exotic Other Native Exotic Other Native Native Other Native Other Native Other Paspalum n	98% 95% 93% 98% 93%	40cm	****	
	Native Native Exotic Exotic Native Native Native Native Othe Native Othe Native Othe Native Othe Pospalum n	95% 93% 98% 93%	32cm	***	
	Native Exotic Native Native Native d), Pospalum n	95% 98% 93%	40cm	***	
	Exotic Exotic Native Native O, Pospalum n	93% 98% 93%	33cm	***	
	Native Native Native d), Pospalum n	95% 93%	29cm	****	
	Native Native d), <i>Pospalum n</i>	98% 93%	57cm	***	Generally growing fast. Some in flowering.
	Native d), Pospalum n		39cm	****	
	d), Paspalum n		31cm	***	All seedling stocks were supplied in topped form.
and the state of the second se	d), Paspalum n	، بالله (۱۹۹۰) در ۱۹۹۹			
n	d), Pospalum n	. A.			
a series and the series of the	d), Paspalum n				
and which we have	d), Paspalum n				
	d), Paspalum n				
		notatum (Good) et	U.		
Naturally Kegenerated Vegetation: Wegelig triloogtg, Setorig Spp., Bigens glog etc.	ia spp., Bidens	alba etc.			
Noxious Weeds Present & Their Condition: Leucaena leucoce	cephala (Minor	Leucaena leucocephala (Minor), Mikania micrantha (Minor)	ntha (Minor)		
Additional Description / Remarks: Nil.					
	and Thirt burn				
General Description of the Condition of the Irial Planting and Irial Nursery	and Irial Nur	sery			
<ul> <li>Overall health conditions of the planted seedlings are ranging from fair to good.</li> <li>Grass coverage reaches 100%, whereas in some areas the grasses are grown higher than ~500mm and covered the trial species and could hinder their growth and exposure to sunlight.</li> <li>Gate of the sub-area is deformed and requires maintenance.</li> </ul>	nging from fair 9 grasses are gr nce.	r to good. rown higher than	~500mm and covered	the trial species and coul	ld hinder their growth and exposure to sunlight.
Snarial Obsenvations					
Invasive species are found on site: 3 nos. of <i>Leucoena leucocephala</i> , some patches of <i>Mikania micrantha</i> ; and some nests of Red Imported Fire Ant.	hala, some pat	atches of Mikania	micrantha; and some r	ests of Red Imported Fire	e Ant.

# Summary of Establishment Works Carried Out during Last Monitoring Session

Irrigation with automatic irrigation system on timer control;
Installation of weed mat for each planted seedlings.

Page 2 of 8

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2020-10\_82

Form No.:

Photographs - General Conditions of the Trial Nursery

Photo 1 | Looking towards sub-area B2, weed mats are installed to majority of the seedlings.



Photo 2 | Wire fence are installed around sub-area B2.



Page 3 of 8

Form No.: 2020-10\_B2

Sub-area Code: 82

Site Tree Photographs – Exotic Species

Rui un ui Rui un ui Rui un ui Rui un ui		
	(Not applicable)	E6 Senna siamea
	(Not applicable)	E5 Melia azedarach
	(Not applicable)	E4 Acacia auriculiformis
	(Not applicable)	E3 Dalbergia odorifera
	(Not applicable)	E2 Cassia nodosa
	(Not applicable)	E1 Acacia confusa

Page 4 of 8

Form No.: 2020-10\_B2

4

Sub-area Code: B2

Site Tree Photographs – Native Species

(Not applicable)	NG Hibiscus tiliaceus
(Not applicable)	N5 Ficus virens
(Not applicable)	N4 Aquilaria sinensis
(Not applicable)	N3 Cinnamomum camphora
(Not applicable)	N2 Celtis sinensis
(Not applicable)	N1 Bridelia tomentosa

(Not applicable)	N12 Myrica rubra
(Not applicable)	N11 Macaranga tanarius
(Not applicable)	N10 Machilus chekiangensis
(Not applicable)	N9 Litsea glutinosa
(Not applicable)	N8 Liquidambar formosana
(Not applicable)	N7 llex rotunda var. microcarpa

	(Not applicable)	N18 Rhus succedanea	(Not applicable)	N24 Viburnum odoratissimum
	(Not applicable)	N17 Reevesia thyrsoidea	(Not applicable)	N23 Syzygium hancei
	(Not applicable)	N16 Pyrus calleryana	(Not applicable)	N22 Sterculia lanceolata
	(Not applicable)	N15 Pongamia pinnata	(Not applicable)	N21 Keteleeria fortunei
ie	(Not applicable)	N14 Polyspora axillaris	(Not applicable)	N20 Sapium sebiferum
Sub-area Code: <mark>B2</mark> Site Tree Photographs – Native Species	(Not applicable)	N13 Rhodoleia championi	(Not applicable)	N19 Sapium discolor

Sub-area Code: 82

Site Shrub Photographs





\* For instance, S1-1 represents 1# block of shrub species S1 within the corresponding Sub-area.

Page 7 of 8



Contract No. EP/SP/10/91 South East New Territories Landfill Extension (SENTX) Trial Nursery Planting Monitoring Data Collection Report No. 1

Notis

# Appendix C

## Landscape Works Maintenance Report Forms

- Maintenance Period (June 2020)
- Maintenance Period (July 2020)
- Maintenance Period (August 2020)
- Maintenance Period (September 2020)
- Maintenance Period (October 2020)

Establishment Work Period:	June		202	0				Job	No.:								Sul	o-ar	ea: Ti	int.	New	in	
	(J.S.C.S.C	<sup>1</sup>																	ea: Tí Al,	A2,	BI, B	2	
Present:	and a second	*******											******		euroladoreu	* 10* 100 10 10	Anto-leadered						
					E	stabl	ishm	nent	Nor	(5	( 1	使予	ŧТ.	们间	)						4++>e#***		
Month (月)					Ju	ne	2	02	0														
Day (日) '		,					10	71 1	. 13	1.	15	16	17	14	19	20	21 22		24	2.9 2	- 25	24	22 2
Watering (淋水)		- The Property is		J	1	/				V					V	V	V		~	V	M	V	1
Weeding(除雜草)	$\checkmark$	V	$\checkmark$			V					V	$\checkmark$	V	$\checkmark$									_
Grass cutting(剪章)				$\checkmark$									V	$\checkmark$									
Fertilizing (施肥)															V	V	V						
Pruning / Thinning(修剪)																							
Firming up (扎結)																							
Pest Control (除害虫)											V												
Soil Aeration (翻土)			10 A												V	$\checkmark$	V						
Mulching (蓋土)									10 11				1000		$\checkmark$		V						
Labour on Site No.(工数)	4	12	4	2	2	4	ГТ	T		1	4	4	4	4	6	6	6	T	11	1	1		1
Start Time (開工時間)	055		1	1 1	300	085					500		-	-	-	>	in	1	or	e	spas		in
	135			3	1250	125					35		-	-	2	2	195	-	170	13			nan
Finish Time (收工時間)		I				<u> </u>	<u> </u>		1	1					L	L	1	1	<u>1 1</u>			<b></b>	
No. of Staff (護養工作人數	) /	~	7	6					Si	gnat	ture	s	(3	负名	()		5	-	_	-			
Contractor Sign at Start ([#]_T_)	4	50	51	4	51	4				· · · · ·	4	£	Se	R	4	2	R		8	5	28		8
Contractor Sign at Finish  (收工)	4	51	51	Se	51	51					V	X	5	51	31	F	×		50	Y.	xx		×
Witness (GVL) (證人)	4	70	50	50	40	50					50	A	51	Se	5	5	50		8	4	ise		5

Estate staff to sign the appropriate column on day of inspection, which should be carried out once per week. Should the Contractor fail to carry out the work, estate staff are to indicate in REMARKS below.

REMARKS (if any): 18 Jun Pit excavition 19~22 planting tree seedlings and shubs,

Signed:

Date:

Contract No. EP/SP/10/91 - South East New Territories Landfill Ex Establishment Work Record	tension (SENTX)	Record no.:
Establishment Work Period: July 2000	Job No.:	Sub-area: Al, AZ, BI, B2
Present:		

Month (月)						Tu	du	12	202	>										and to be one						ing particular and	-
Day (日)	1		1	S			1	16	"S	2 1	1	15	16	17	18	S	20	21 3	3 27	14	14	5	27	14	13	H.C.	Γ
Watering (淋水)	V	V	V		V	$\vee$		$\vee$		V			V	V	V		5	V		V			v	v	V	1	V
Woeding (除雜草)										V	V	V		1	V												
Grass cutting (剪章)																			-								
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Estate staff to sign the appropriate column on day of inspection, which should be carried out once per week. Should the Contractor fail to carry out the work, estate staff are to indicate in REMARKS below.

REMARKS (if any):

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No. of Staff (護養工作人數)	2-4	Signatures (簽名)	
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Witness (GVL) (證人)			

Estate staff to sign the appropriate column on day of inspection, which should be carried out once per week. Should the Contractor fail to carry out the work, estate staff are to indicate in REMARKS below.

REMARKS (if any):

Signed: 1775 2 Date:

Contract No. EP/SP/10/91 - South East New Territories Landfill Exten Establishment Work Record	sion (SENTX)	Record no.:
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Contractor Sign at Finish  (收工)	20 3 20	5 50	Sa The	48
Witness (GVL) (證人)				

Estate staff to sign the appropriate column on day of inspection, which should be carried out once per week. Should the Contractor fail to carry out the work, estate staff are to indicate in REMARKS below.

REMARKS (if any):

Signed:	SC
Date:	2100-200

Annex F

Correspondence



翠谷工程有限公司 Green Valley Landfill, Limited

02 April 2019 *GM E<sup>2</sup>* Our Ref: JC/EZ/RC/60716/19/tt

Ove Arup & Partners Hong Kong Limited SENTX Site Office by Hand & Email

Attn: Mr. Cliff Ko

Dear Sirs,

Contract No EP/SP/10/91 South-East New Territories (SENT) Landfill Extension **Trees Removal at SENT Infrastructure Area** 

We write to seek ER and IC's approval with respect to SA2 Appendix C Pat A Clause 26.4.3 that we plan to remove all the remaining trees at SENT infrastructure area within the next two years except those were labelled and fenced off for transplantation. A location plan is enclosed for your reference. We propose the trees fell exercise to be commenced tentatively by this month.

By the copy of this letter, we would be grateful if IC could also return us their approval. We are looking forward to both ER and IC's favourable return.

Should you have any queries, please contact Mr. Ray Chung at 2706 8851.

Yours faithfully For an on behalf of **GREEN VALLEY LANDFILL LIMITED** 

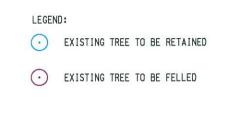
Gary Barnicott General Manager

Enc. Location plan

CC: Vincent Woo – EPD (1 copy and email) Helen Cochrane / John Steaton – MIEL (2 copies) GB, CL, RC, EZ, JC, VC – GVL









翠谷工程有限公司 Green Valley Landfill, Limited

08 April 2019 Our Ref: JC/RC/60918/19/tt

Ove Arup & Partners Hong Kong Limited SENTX Site Office

by Hand & Email

Attn: Mr. Cliff Ko

Dear Sirs,

Contract No EP/SP/10/91 South-East New Territories (SENT) Landfill Extension **Trees removed before Site Hand-over** 

Please find enclosed the tables and location plan listing and indicating the trees removed before site hand-over.

Should you have any queries, please contact Mr. Ray Chung at 2706 8851.

Yours faithfully For and on behalf of **GREEN VALLEY LANDFILL LIMITED** 

Gary Barnicott General Manager

- Enc. Tables and location plan of tress removed before site hand-over
- CC: Helen Cochrane / John Steaton MIEL (2 copies) GB, RC, EZ, JC, VC, HL – GVL



																		Trees within GLA-SK 425 Survey Date: Aug 2015 - Mar 2016	
Appendix	Tree No.	Species			Measureme	nts	Tree	Condition (C	Good / Fair / I	Poor)	Suita	bility for Transplanting Conservatio	How the Tree is Affected	Recommen- dation	Departmen	t to Provide	Expert Advice to LandsD	Additional Remarks	Status
B2	T-0033	Ficus virens	黄葛樹	7	0.3	7	Fair	Fair	Fair	Fair	High		A	Transplant	AFCD	A2	GLA-SK 425 (TLA to EPD)	-	Assigned to be transplanted Fell during typhoon in 2018
B2	T-0043	Acacia auriculiformis	耳果相思	9	0.35	4	Poor	Poor	Fair	Poor	Low	Species of low transplant survival rate	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Moderately leaning; Heavily bent trunk	Tree is not on site anymore
B2	T-0047	Acacia auriculiformis	耳果相思	13	0.46	5	Fair	Fair	Fair	Fair	Low	Species of low transplant	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Slightly leaning	Tree is not on site anymore
B2	T-0052	Hibiscus tiliaceus	黄槿	8	0.57	6	Fair	Poor	Fair	Poor	Low	Poor form & structure -	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Overall messy form	Tree is not on site anymore
B2	T-0054	Hibiscus tiliaceus	黄槿	8	0.38	8	Poor	Poor	Fair	Poor	Low	Poor amenity value, form &	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Heavily leaning; Partially	Tree is not on site anymore
B2	T-0056	Hibiscus tiliaceus	黄槿	8	0.82	8	Fair	Poor	Fair	Poor	Low	Poor form & structure -	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	uprooted; Overall messy form Multi-trunk; Overall messy form	Tree is not on site anymore
B2	T-0058	Hibiscus tiliaceus	黄槿	8	0.28	5	Poor	Poor	Fair	Poor	Low	Poor amenity value, form &	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Large wound on trunk base;	Tree is not on site anymore
02015				470	00000		N. Jakona	1.02.03	100000	10000	1000	structure Next to concrete footpath,						Overall messy form	
B2	T-0059	Ficus virens	黄葛樹	7	0.32	7	Fair	Fair	Fair	Fair	Low	impractical to prepare - rootball	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Next to concrete footpath	Tree is not on site anymore
B2	T-0062	Melaleuca cajuputi subsp. cumingiana	白千層	5	0.14	3	Poor	Poor	Poor	Poor	Low	Poor amenity value, form, health & structure	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Moderately leaning; Poor taper; Low live crown ratio; Truncated form	Tree is not on site anymore
B2	T-0071	Cinnamomum camphora	樟	7	0.25	4	Fair	Poor	Fair	Poor	Low	Poor form & structure -	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning	Tree is not on site anymore
B2	T-0359	Leucaena leucocephala	銀合歡	9	0.17	4	Poor	Poor	Fair	Poor	Low	Undesirable invasive	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Poor taper	Tree is not on site anymore
B3	T-4921	Leucaena leucocephala	銀合歡	7	0.19	6	Poor	Poor	Fair	Poor	Low	Species Undesirable invasive	A	Fell	AFCD	A3	Within CWBCP	Multi-trunk; Poor taper; Low live crown	Tree is not on site anymore
B3	T-4922	Ficus microcarpa	榕樹	7	0.32	9	Poor	Poor	Fair	Poor	Low	Poor amenity value, form &	A	Fell	AFCD	A3	Within CWBCP	ratio Multi-trunk; Moderately asymmetric crown	Tree is not on site anymore
B3	T-4923	Sapium sebiferum	烏桕	5	0.17	3	Poor	Poor	Fair	Poor	Low	Poor amenity value, form &	Δ	Fell	AFCD	A3	Within CWBCP	Heavily leaning; Low live crown ratio	Tree is not on site anymore
B3	T-4924	Acacia auriculiformis	耳果相思	6	0.24	8	Poor	Poor	Fair			structure Species of low transplant	Δ	Fell	AFCD	A3	Within CWBCP		
B3	T-4925		耳果相思	5	0.1	2		200		Poor	Low	survival rate	^				and Providences	Heavily leaning	Tree is not on site anymore
2010	21 200000	Acacia auriculiformis		5	22.55		Poor	Poor	Fair	Poor	Low	survival rate	A	Fell	AFCD	A3	Within CWBCP	Poor taper; Low live crown ratio	Tree is not on site anymore
B2	T-8655	Leucaena leucocephala	銀合歡	8	0.20	7	Poor	Poor	Fair	Fair	Low	species - Undesirable invasive	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Severe asymmetric crown	Tree is not on site anymore
B2	T-8656	Leucaena leucocephala	銀合歡	1	0.16	5	Fair	Poor	Fair	Poor	Low	species	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems Multi-trunk; 2 out of 3 trunks removed; Poo	Tree is not on site anymore
B2	T-8657	Leucaena leucocephala	銀合歡	6	0.11	3	Poor	Poor	Fair	Poor	Low	species	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	taper	Tree is not on site anymore
B2	T-8658	Leucaena leucocephala	銀合歡	7	0.13	5	Poor	Poor	Fair	Fair	Low	species	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Moderately leaning	Tree is not on site anymore
B2	T-8659	Macaranga tanarius var. tomentosa	血桐	3	0.10	5	Poor	Poor	Fair	Poor	Low	Species of poor amenity value	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Heavily leaning	Tree is not on site anymore
B2	T-8660	Litsea glutinosa	潺槁樹	5	0.24	3	Poor	Fair	Fair	Poor	Low	Poor amenity value &	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Closely spaced co-dominant stems	Tree is not on site anymore
B2	T-8661	Macaranga tanarius var. tomentosa	血桐	5	0.15	5	Poor	Poor	Fair	Poor	Low	Species of poor amenity value	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Poor taper	Tree is not on site anymore
B2	T-8662	Leucaena leucocephala	銀合歡	8	0.19	4	Poor	Poor	Fair	Poor	Low	Undesirable invasive	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems	Tree is not on site anymore
B2	T-8663	Macaranga tanarius var. tomentosa	血桐	5	0.12	3	Poor	Poor	Fair	Poor	Low	Species of poor amenity -	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Moderately leaning; Severe asymmetric crown	Tree is not on site anymore
B2	T-8664	Macaranga tanarius var. tomentosa	nn 桐	6	0.11	4	Poor	Poor	Fair	Poor	Low	Species of poor amenity -	Α.	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper	Tree is not on site anymore
B2	T-8665	Celtis sinensis	朴樹	7	0.10	3	Poor	Poor	Fair	Poor	Low	Poor amenity value, form &	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Slightly leaning; Poor taper; Low live crown ratio	Tree is not on site anymore
B2	T-8666	Macaranga tanarius var. tomentosa	血桐	5	0.11	3	Poor	Poor	Fair	Poor	Low	Species of poor amenity value	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Severe asymmetric crown; Poor taper	Tree is not on site anymore
B2	T-8667	Macaranga tanarius var. tomentosa	m桐	5	0.10	3	Poor	Poor	Fair	Poor	Low	Species of poor amenity	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Moderately leaning; Moderately asymmetric crown	Tree is not on site anymore
B2	T-8668	Ficus microcarpa	榕樹	5	0.13	3	Poor	Poor	Fair	Poor	Low	Poor amenity value, form &	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Heavily leaning; Severe asymmetric crown	Tree is not on site anymore
B2	T-8677	Leucaena leucocephala	銀合歡	7	0.16	6	Poor	Poor	Fair	Fair	Low	Undesirable invasive -	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems	Tree is not on site anymore Removed by CEDD
B2	T-8678	Macaranga tanarius var.	fin相同	9	0.38	9	Poor	Poor	Poor	Poor	Low	Species of poor amenity	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multiple broken trunks and branches	Tree is not on site anymore
B2	T-8679	tomentosa Leucaena leucocephala	銀合歡	7	0.12	3	Poor	Poor	Fair	Poor	Low	Value Undesirable invasive	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily bent trunk; Poor taper	Removed by CEDD Tree is not on site anymore
B2	T-8680	Leucaena leucocephala	銀合歡	6	0.11	4	Poor	Poor	Fair	Poor	Low	Undesirable invasive	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Poor taper	Removed by CEDD Tree is not on site anymore
B2	T-8684	Leucaena leucocephala	銀合歡	8	0.13	3	Poor	Poor	Fair	Poor	Low	species Undesirable invasive	Δ.	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Heavily leaning; Poor taper	Removed by CEDD Tree is not on site anymore
B2	T-8685	Leucaena leucocephala	Company and	6	0.10	3				501		species Undesirable invasive		1	a and a contract of the	- 12-12-12-12-12-12-12-12-12-12-12-12-12-1			Removed by CEDD Tree is not on site anymore
B2 B2	T-8686		銀合歡			4	Poor	Poor	Fair	Poor	Low	species Undesirable invasive		Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning	Removed by CEDD Tree is not on site anymore
		Leucaena leucocephala	銀合歡		0.10	4	Poor	Poor	Fair	Poor	Low	species - Undesirable invasive	A .	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Heavily leaning; Poor taper	Removed by CEDD Tree is not on site anymore
B2	T-8687	Leucaena leucocephala	銀合歡	1	0.11	3	Poor	Poor	Fair	Poor	Low	species - Undesirable invasive	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Poor taper	Removed by CEDD Tree is not on site anymore
B2	T-8688	Leucaena leucocephala	銀合歡	6	0.10	3	Poor	Poor	Fair	Poor	Low	species -	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily bent trunk; Poor taper	Removed by CEDD Tree is not on site anymore
B2	T-8689	Leucaena leucocephala	銀合歡	7	0.10	3	Poor	Poor	Fair	Poor	Low	species	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning	Removed by CEDD
B2	T-8690	Leucaena leucocephala	銀合歡	8	0.11	3	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Heavily leaning	Tree is not on site anymore Removed by CEDD
B2	T-8692	Leucaena leucocephala	銀合歡	8	0.10	3	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily bent trunk; Poor taper	Tree is not on site anymore Removed by CEDD
B2	T-8693	Leucaena leucocephala	銀合歡	8	0.10	3	Poor	Poor	Fair	Poor	Low	Undesirable invasive -	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Poor taper	Tree is not on site anymore Removed by CEDD

																			Trees within GLA-SK 42 Survey Date: Aug 2015 - Mar 201	
Appendix	Tree No.	Species			Measureme	nts	Tree	e Condition (	Good / Fair /	Poor)	Suita	bility for Transplanting	Conservatio n Status	How the Tree	Recommen- dation	Departmen	nt to Provide	Expert Advice to LandsD	Additional Remarks	Status
B2	T-8694	Leucaena leucocephala	銀合歡	6	0.10	2	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Poor taper	Tree is not on site anymore Removed by CEDD
B2	T-8696	Leucaena leucocephala	銀合歡	10	0.19	5	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning	Tree is not on site anymore Removed by CEDD
B2	T-8697	Leucaena leucocephala	銀合歡	6	0.10	4	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper	Tree is not on site anymore Removed by CEDD
B2	T-8698	Leucaena leucocephala	銀合歡	7	0.11	3	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	2	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily bent trunk	Tree is not on site anymore Removed by CEDD
B2	T-8699	Macaranga tanarius var.	血桐	5	0.12	6	Poor	Poor	Fair	Poor	Low	Species of poor amenity	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk	Tree is not on site anymore Removed by CEDD
B2	T-8701	tomentosa Leucaena leucocephala	銀合歡	7	0.10	3	Poor	Poor	Fair	Poor	Low	Value Undesirable invasive	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning	Tree is not on site anymore Removed by CEDD
B2	T-8703	Leucaena leucocephala	銀合歡	7	0.12	5	Poor	Poor	Poor	Poor	Low	species Undesirable invasive	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Heavily vined	Tree is not on site anymore
B2	T-8704	Leucaena leucocephala	銀合歡	5	0.10	3	Poor	Poor	Fair	Poor	Low	species Undesirable invasive	-	Α	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning	Removed by CEDD Tree is not on site anymore
B2	T-8705	Macaranga tanarius var.	血桐	4	0.11	4	Poor	Poor	Fair	Poor	Low	species Species of poor amenity	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Low leaf density	Removed by CEDD Tree is not on site anymore
B2	T-8706	tomentosa Leucaena leucocephala	銀合歡	7	0.11	4	Poor	Poor	Fair	Poor	Low	Value Undesirable invasive		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Poor taper	Removed by CEDD Tree is not on site anymore
B2	T-8710	Leucaena leucocephala	銀合歡	7	0.13	5	Poor	Poor	Poor	Poor	Low	species Undesirable invasive		Δ	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Heavily vined	Removed by CEDD Tree is not on site anymore
	2012/02/02/02			,	0.10	2				0	-	species Undesirable invasive			Fell	AFCD	2.55	GLA-SK 425 (TLA to EPD)		Removed by CEDD Tree is not on site anymore
B2	T-8711	Leucaena leucocephala	銀合歡	5		2	Poor	Poor	Poor	Poor	Low	species Undesirable invasive		A .			A2		Heavily leaning; Heavily vined	Removed by CEDD Tree is not on site anymore
B2	T-8713	Leucaena leucocephala	銀合歡	8	0.10	3	Poor	Poor	Poor	Poor	Low	species Undesirable invasive		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Heavily vined	Removed by CEDD Tree is not on site anymore
B2	T-8714	Leucaena leucocephala	銀合歡	6	0.12	3	Poor	Poor	Poor	Poor	Low	species Undesirable invasive		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Heavily vined	Removed by CEDD Tree is not on site anymore
B2	T-8715	Leucaena leucocephala	銀合歡	7	0.11	4	Poor	Poor	Poor	Poor	Low	species Undesirable invasive	1.	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Low live crown ratio; Heavily vined	Removed by CEDD Tree is not on site anymore
B2	T-8716	Leucaena leucocephala	銀合歡	8	0.11	3	Poor	Poor	Poor	Poor	Low	species		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Heavily vined	Removed by CEDD
B2	T-8717	Leucaena leucocephala	銀合歡	7	0.10	2	Poor	Poor	Poor	Poor	Low	Undesirable invasive species	0=1	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Heavily vined	Tree is not on site anymore Removed by CEDD
B2	T-8720	Leucaena leucocephala	銀合歡	7	0.11	4	Poor	Poor	Poor	Poor	Low	Undesirable invasive species		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily bent trunk; Heavily vined	Tree is not on site anymore Removed by CEDD
B2	T-8721	Macaranga tanarius var. tomentosa	血桐	6	0.22	6	Poor	Poor	Fair	Poor	Low	Species of poor amenity value	e 🗵	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Low branching height	Tree is not on site anymore Removed by CEDD
B2	T-8723	Macaranga tanarius var. tomentosa	血桐	6	0.25	8	Poor	Poor	Fair	Poor	Low	Species of poor amenity value	-	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning	Tree is not on site anymore Removed by CEDD
B2	T-8724	Leucaena leucocephala	銀合歡	6	0.12	4	Poor	Poor	Poor	Poor	Low	Undesirable invasive species		А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Heavily vined	Tree is not on site anymore Removed by CEDD
B2	T-8725	Leucaena leucocephala	銀合歡	5	0.10	4	Poor	Poor	Poor	Poor	Low	Undesirable invasive species		А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Heavily vined	Tree is not on site anymore Removed by CEDD
B2	T-8726	Leucaena leucocephala	銀合歡	7	0.12	3	Poor	Poor	Poor	Fair	Low	Undesirable invasive species	•	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily vined	Tree is not on site anymore Removed by CEDD
B2	T-8727	Macaranga tanarius var. tomentosa	血桐	5	0.26	7	Poor	Poor	Poor	Poor	Low	Species of poor amenity value	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Cracked bark; Heavily vined	Tree is not on site anymore Removed by CEDD
B2	T-8728	Leucaena leucocephala	銀合歡	6	0.12	8	Poor	Poor	Poor	Poor	Low	Undesirable invasive species	-	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Heavily vined	Tree is not on site anymore Removed by CEDD
B2	T-8729	Macaranga tanarius var. tomentosa	血桐	6	0.14	7	Poor	Poor	Poor	Poor	Low	Species of poor amenity value	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Heavily bent trunk; Heavily vined	Tree is not on site anymore Removed by CEDD
B2	T-8730	Leucaena leucocephala	銀合歡	5	0.10	3	Poor	Poor	Poor	Poor	Low	Undesirable invasive species	12	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Fallen down	Tree is not on site anymore Removed by CEDD
B2	T-8731	Celtis sinensis	朴樹	6	0.11	4	Poor	Poor	Fair	Poor	Low	Poor amenity value, form & structure	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning	Tree is not on site anymore Removed by CEDD
B2	T-8732	Celtis sinensis	朴樹	8	0.15	4	Poor	Poor	Poor	Poor	Low	Poor amenity value, form, health & structure	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Heavily vined	Tree is not on site anymore Removed by CEDD
B2	T-8733	Leucaena leucocephala	銀合歡	6	0.10	3	Poor	Poor	Poor	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily bent trunk; Poor taper; Heavily vined	Tree is not on site anymore Removed by CEDD
B2	T-8734	Celtis sinensis	朴樹	6	0.10	4	Poor	Poor	Poor	Poor	Low	Poor amenity value, form,		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily bent trunk; Heavily vined	Tree is not on site anymore
B2	T-8735	Leucaena leucocephala	銀合歡	9	0.18	7	Poor	Poor	Poor	Poor	Low	health & structure Undesirable invasive	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Heavily vined	Removed by CEDD Tree is not on site anymore
B2	T-8736	Leucaena leucocephala	銀合歡	6	0.12	5	Poor	Poor	Fair	Poor	Low	species Undesirable invasive	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning	Removed by CEDD Tree is not on site anymore
B2	T-8737	Leucaena leucocephala	銀合歡	6	0.12	3	Poor	Poor	Poor	Poor	Low	species Undesirable invasive		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Heavily vined	Removed by CEDD Tree is not on site anymore
B2	T-8738	Macaranga tanarius var.	血桐	7	0.12	4	Poor	Poor	Poor	Poor	Low	species Species of poor amenity		Δ	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Topped	Removed by CEDD Tree is not on site anymore
	1003074545454	tomentosa	-	7	5	61 201	September 200	54202011	63 - KONEK 1990-53-5-11	43 - HANNEY	All an and a second	value Undesirable invasive					111115			Removed by CEDD Tree is not on site anymore
B2	T-8742	Leucaena leucocephala Macaranga tanarius var.	銀合歡		0.10	3	Poor	Poor	Poor	Poor	Low	species Species of poor amenity		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Heavily vined	Removed by CEDD Tree is not on site anymore
B2	T-8743	tomentosa Macaranga tanarius var.	血桐	6	0.13	5	Poor	Poor	Poor	Poor	Low	value Species of poor amenity		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Severe dieback	Removed by CEDD Tree is not on site anymore
B2	T-8744	tomentosa	血桐	7	0.18	6	Poor	Poor	Fair	Poor	Low	value Undesirable invasive		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Low live crown ratio	Removed by CEDD Tree is not on site anymore
B2	T-8745	Leucaena leucocephala	銀合歡	7	0.10	4	Poor	Poor	Fair	Poor	Low	species Poor amenity value, form &	~	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Poor taper	Removed by CEDD Tree is not on site anymore
B2	T-8746	Celtis sinensis	朴樹	8	0.12	4	Poor	Poor	Fair	Poor	Low	structure	~	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily bent trunk; Low live crown ratio	Removed by CEDD
B2	T-8747	Leucaena leucocephala	銀合歡	8	0.11	3	Poor	Poor	Fair	Poor	Low	Undesirable invasive species		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily bent trunk; Poor taper; Low live crown ratio	Tree is not on site anymore Removed by CEDD
B2	T-8748	Celtis sinensis	朴樹	6	0.12	4	Poor	Poor	Fair	Poor	Low	Poor amenity value, form & structure	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Low live crown ratio	Tree is not on site anymore Removed by CEDD
B2	T-8749	Leucaena leucocephala	銀合歡	8	0.10	4	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Poor taper	Tree is not on site anymore Removed by CEDD
B2	T-8750	Celtis sinensis	朴樹	8	0.12	4	Poor	Poor	Poor	Poor	Low	Poor amenity value, form, health & structure		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Heavily vined	Tree is not on site anymore Removed by CEDD

																			Trees within GLA-SK 42: Survey Date: Aug 2015 - Mar 2010	and the second of the second se
Appendix	Tree No.	Species		1223	Measuremen	nts	Tree	Condition (C	Good / Fair / F	Poor)	Suita	bility for Transplanting	and the second se	How the Tree	Recommen-	Departmen	nt to Provide	Expert Advice to LandsD	Additional Remarks	Status
B2	T-8751	Leucaena leucocephala	銀合歡	7	0.11	4	Poor	Poor	Poor	Poor	Low	Undesirable invasive species	n Status	Affected	dation Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Heavily vined	Tree is not on site anymore Removed by CEDD
B2	T-8752	Macaranga tanarius var. tomentosa	血桐	5	0.18	6	Poor	Poor	Fair	Poor	Low	Species of poor amenity value	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Heavily leaning	Tree is not on site anymore Removed by CEDD
B2	T-8753	Leucaena leucocephala	銀合歡	7	0.10	3	Poor	Poor	Poor	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Heavily vined	Tree is not on site anymore Removed by CEDD
B2	T-8754	Celtis sinensis	朴樹	6	0.10	7	Poor	Poor	Poor	Poor	Low	Poor amenity value, form, health & structure	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Heavily vined	Tree is not on site anymore Removed by CEDD
B2	T-8755	Leucaena leucocephala	銀合歡	7	0.12	4	Poor	Poor	Poor	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Heavily vined	Tree is not on site anymore Removed by CEDD
B2	T-8756	Leucaena leucocephala	銀合歡	7	0.13	3	Poor	Poor	Poor	Poor	Low	Undesirable invasive species	-	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Heavily vined	Tree is not on site anymore Removed by CEDD
B2	T-8758	Leucaena leucocephala	銀合歡	4	0.10	3	Poor	Poor	Poor	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily vined	Tree is not on site anymore Removed by CEDD
B2	T-8759	Leucaena leucocephala	銀合歡	4	0.10	3	Poor	Poor	Poor	Poor	Low	Undesirable invasive species	-	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily vined	Tree is not on site anymore Removed by CEDD
B2	T-8760	Leucaena leucocephala	銀合歡	6	0.11	4	Poor	Poor	Poor	Poor	Low	Undesirable invasive species	-	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Heavily vined	Tree is not on site anymore Removed by CEDD
B2	T-8762	Leucaena leucocephala	銀合歡	7	0.14	3	Poor	Poor	Poor	Poor	Low	Undesirable invasive species	-	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily bent trunk; Heavily vined	Tree is not on site anymore Removed by CEDD
B2	T-8763	Leucaena leucocephala	銀合歡	8	0.10	4	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	÷.	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Heavily leaning; Poor taper	Tree is not on site anymore Removed by CEDD
B2	T-8764	Leucaena leucocephala	銀合歡	7	0.15	5	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning	Tree is not on site anymore Removed by CEDD
B2	T-8766	Morus alba	桑	6	0.24	5	Poor	Poor	Poor	Poor	Low	Poor amenity value, form, health & structure	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Split trunk; Heavily vined	Tree is not on site anymore Removed by CEDD
B2	T-8768	Macaranga tanarius var. tomentosa	血相	5	0.10	3	Poor	Poor	Poor	Poor	Low	Species of poor amenity value		А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Moderately leaning; Low leaf density	Tree is not on site anymore Removed by CEDD
B2	T-8771	Leucaena leucocephala	銀合歡	9	0.11	3	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	÷	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Poor taper	Tree is not on site anymore Removed by CEDD
B2	T-8774	Leucaena leucocephala	銀合歡	7	0.10	4	Poor	Poor	Poor	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Heavily vined	Tree is not on site anymore Removed by CEDD
B2	T-8775	Leucaena leucocephala	銀合歡	9	0.13	5	Poor	Poor	Poor	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Fallen down	Tree is not on site anymore Removed by CEDD
B2	T-8776	Leucaena leucocephala	銀合歡	9	0.21	8	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	-	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk	Tree is not on site anymore Removed by CEDD
B2	T-8777	Leucaena leucocephala	銀合歡	8	0.10	3	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	÷	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Poor taper	Tree is not on site anymore Removed by CEDD
B2	T-8778	Leucaena leucocephala	銀合歡	11	0.23	9	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily bent trunk	Tree is not on site anymore
B2	T-8779	Leucaena leucocephala	銀合歡	10	0.24	10	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	-	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning	Tree is not on site anymore
B2	T-8781	Macaranga tanarius var. tomentosa	血桐	6	0.14	4	Poor	Poor	Poor	Poor	Low	Species of poor amenity value	-	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Low leaf density	Tree is not on site anymore Removed by CEDD
В3	T-8782	Leucaena leucocephala	銀合歡	4	0.10	3	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A3	Within CWBCP	Heavily leaning	Tree is not on site anymore
В3	T-8783	Leucaena leucocephala	銀合歡	9	0.12	3	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A3	Within CWBCP	Poor taper; Low live crown ratio	Tree is not on site anymore
B2	T-8784	Macaranga tanarius var. tomentosa	血桐	10	0.19	6	Poor	Poor	Poor	Poor	Low	Species of poor amenity value	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Low leaf density	Tree is not on site anymore
B2	T-8785	Macaranga tanarius var. tomentosa	血桐	8	0.15	8	Poor	Poor	Poor	Fair	Low	Species of poor amenity value	-	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Low leaf density	Tree is not on site anymore
B2	T-8786	Macaranga tanarius var. tomentosa	血桐	10	0.16	5	Poor	Poor	Poor	Poor	Low	Species of poor amenity value	1	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Low leaf density	Tree is not on site anymore
B3	T-8787	Leucaena leucocephala	銀合歡	12	0.23	6	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A3	Within CWBCP	Twin stems; Low live crown ratio	Tree is not on site anymore
B3	T-8788	Leucaena leucocephala	銀合歡	12	0.17	6	Poor	Poor	Poor	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A3	Within CWBCP	Poor taper; Heavily vined	Tree is not on site anymore
B3	T-8789	Macaranga tanarius var. tomentosa	血桐	7	0.15	3	Poor	Poor	Poor	Poor	Low	Species of poor amenity value	-	A	Fell	AFCD	A3	Within CWBCP	Heavily bent trunk; Poor taper; Low leaf density	Tree is not on site anymore
B3	T-8790	Leucaena leucocephala	銀合歡	12	0.14	5	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A3	Within CWBCP	Poor taper; Low live crown ratio	Tree is not on site anymore
B3	T-8791	Macaranga tanarius var. tomentosa	血桐	8	0.18	4	Poor	Poor	Fair	Poor	Low	Species of poor amenity value	-	A	Fell	AFCD	A3	Within CWBCP	Severe asymmetric crown	Tree is not on site anymore
B3	T-8792	Broussonetia papyrifera	構樹	7	0.10	3	Poor	Poor	Fair	Poor	Low	Poor amenity value, form & structure	-	A	Fell	AFCD	A3	Within CWBCP	Heavily leaning; Poor taper	Tree is not on site anymore
B3	T-8793	Leucaena leucocephala	銀合歡	10	0.17	5	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A3	Within CWBCP	Heavily bent trunk; Poor taper; Low live crown ratio	Tree is not on site anymore
B3	T-8794	Leucaena leucocephala	銀合歡	12	0.10	2	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A3	Within CWBCP	Poor taper; Low live crown ratio	Tree is not on site anymore
В3	T-8795	Macaranga tanarius var. tomentosa	血桐	9	0.15	3	Poor	Poor	Poor	Poor	Low	Species of poor amenity value	-	A	Fell	AFCD	A3	Within CWBCP	Heavily leaning; Poor taper; Low leaf density	Tree is not on site anymore
B3	T-8796	Leucaena leucocephala	銀合歡	12	0.13	4	Poor	Poor	Fair	Poor	Low	Undesirable invasive species Undesirable invasive	-	A	Fell	AFCD	A3	Within CWBCP	Poor taper; Low live crown ratio	Tree is not on site anymore
B3	T-8797	Leucaena leucocephala	銀合歡	11	0.12	3	Poor	Poor	Fair	Poor	Low	species Undesirable invasive		A	Fell	AFCD	A3	Within CWBCP	Poor taper; Low live crown ratio	Tree is not on site anymore
B3	T-8798	Leucaena leucocephala	銀合歡	12	0.12	2	Poor	Poor	Poor	Poor	Low	species Undesirable invasive	•	A	Fell	AFCD	A3	Within CWBCP	Heavily bent trunk; Heavily vined	Tree is not on site anymore
B3	T-8799	Leucaena leucocephala Macaranga tanarius var.	銀合歡	10	0.10	3	Poor	Poor	Poor	Poor	Low	species Species of poor amenity	*	A	Fell	AFCD	A3	Within CWBCP	Heavily bent trunk; Heavily vined	Tree is not on site anymore
B3	T-8800	tomentosa Macaranga tanarius var.	血桐	8	0.25	9	Poor	Poor	Poor	Poor	Low	value Species of poor amenity	*	A	Fell	AFCD	A3	Within CWBCP	Low leaf density	Tree is not on site anymore Tree is not on site anymore
B2	T-8882	tomentosa	血桐	4	0.13	6	Poor	Poor	Fair	Poor	Low	value Undesirable invasive	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning	Removed by CEDD Tree is not on site anymore
B2	T-8883	Leucaena leucocephala	銀合歡	9	0.13	6	Poor	Poor	Fair	Poor	Low	species Species of low transplant		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily bent trunk; Poor taper	Removed by CEDD
B3	T-9094	Acacia auriculiformis	耳果相思	6	0.10	2	Poor	Poor	Poor	Poor	Low	survival rate	•	A	Fell	AFCD	A3	Within CWBCP	Poor taper; Low leaf density	Tree is not on site anymore

																			Trees within GLA-SK 425 Survey Date: Aug 2015 - Mar 2016	And the second se
Appendix	Tree No.	Species			Measureme	ents	Tree	e Condition (	Good / Fair /	Poor)	Suit	ability for Transplanting	Conservatio n Status	How the Tree is Affected	Recommen- dation	Departme	nt to Provide	Expert Advice to LandsD	Additional Remarks	Status
B2	T-9095	Casuarina equisetifolia	木麻黄	7	0.16	4	Poor	Fair	Fair	Fair	Low	Species of low transplant survival rate	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Slightly leaning	Tree is not on site anymore
В3	T-9096	Litsea glutinosa	潺槁樹	6	0.11	3	Poor	Poor	Fair	Fair	Low	Poor amenity value & form	-	A	Fell	AFCD	A3	Within CWBCP	Low branching height	Tree is not on site anymore
В3	T-9097	Macaranga tanarius var. tomentosa	血桐	6	0.19	4	Poor	Poor	Poor	Poor	Low	Species of poor amenity value	-	A	Fell	AFCD	A3	Within CWBCP	Heavily leaning; Severe bark crack; Low leaf density	Tree is not on site anymore
B3	T-9098	Acacia auriculiformis	耳果相思	8	0.21	6	Poor	Poor	Poor	Poor	Low	Species of low transplant survival rate	-	A	Fell	AFCD	A3	Within CWBCP	Multi-trunk; Low leaf density	Tree is not on site anymore
В3	T-9099	Ficus variegata	青果榕	6	0.15	5	Poor	Poor	Poor	Poor	Low	Poor amenity value, form, health & structure	-	A	Fell	AFCD	A3	Within CWBCP	All leaves lost; Trunk crossed with other tree	Tree is not on site anymore
В3	T-9100	Acacia auriculiformis	耳果相思	8	0.17	5	Poor	Poor	Poor	Poor	Low	Species of low transplant	-	A	Fell	AFCD	A3	Within CWBCP	Multi-trunk; Low leaf density	Tree is not on site anymore
В3	T-9101	Acacia confusa	台灣相思	8	0.34	9	Poor	Poor	Fair	Poor	Low	survival rate Species of low transplant	-	A	Fell	AFCD	A3	Within CWBCP	Multi-trunk	Tree is not on site anymore
В3	T-9102	Acacia confusa	台灣相思	7	0.10	3	Poor	Poor	Fair	Poor	Low	survival rate Species of low transplant		A	Fell	AFCD	A3	Within CWBCP	Poor taper; Low live crown ratio	Tree is not on site anymore
В3	T-9103	Acacia confusa	台灣相思	7	0.10	3	Poor	Poor	Fair	Poor	Low	survival rate Species of low transplant		A	Fell	AFCD	A3	Within CWBCP	Multi-trunk; Moderately leaning	Tree is not on site anymore
B3	T-9104	Sapium sebiferum	烏桕	3	0.11	2	Poor	Poor	Fair	Poor	Low	Survival rate Poor amenity value, form &	-	A	Fell	AFCD	A3	Within CWBCP	Heavily leaning; Poor taper; Low live crown	
B3	T-9105	Acacia auriculiformis	耳果相思		0.14	4	Poor	Poor	Poor	Fair	Low	structure Species of low transplant		A	Fell	AFCD	A3	Within CWBCP	Low leaf density	Tree is not on site anymore
												survival rate Species of low transplant			Fell	AFCD		Within CWBCP		
B3	T-9108	Acacia auriculiformis	耳果相思	9	0.15	5	Poor	Poor	Poor	Poor	Low	survival rate Species of low transplant	-	A			A3		Multi-trunk; Low leaf density	Tree is not on site anymore
B3	T-9109	Acacia auriculiformis	耳果相思	8	0.27	6	Poor	Poor	Fair	Poor	Low	survival rate Undesirable invasive		A	Fell	AFCD	A3	Within CWBCP	Multi-trunk; Heavily leaning Heavily bent trunk; Poor taper; Low live	Tree is not on site anymore
B2	T-9114	Leucaena leucocephala	銀合歡	8	0.10	5	Poor	Poor	Fair	Poor	Low	species Undesirable invasive		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	crown ratio Heavily bent trunk; Poor taper; Low live	Tree is not on site anymore
B3	T-9115	Leucaena leucocephala	銀合歡	6	0.11	4	Poor	Poor	Fair	Poor	Low	species Undesirable invasive	1071	A	Fell	AFCD	A3	Within CWBCP	crown ratio	Tree is not on site anymore
B2	T-9116	Leucaena leucocephala	銀合歡	8	0.10	4	Poor	Poor	Fair	Poor	Low	species	12)	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning	Tree is not on site anymore
B2	T-9117	Ficus microcarpa	榕樹	8	0.26	5	Poor	Poor	Fair	Fair	Low	Poor amenity value & form	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Moderately leaning	Tree is not on site anymore
B2	T-9118	Acacia auriculiformis	耳果相思	10	0.25	7	Poor	Poor	Fair	Poor	Low	Species of low transplant survival rate		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning	Tree is not on site anymore
B2	T-9119	Machilus chekiangensis	浙江澗楠	6	0.19	5	Poor	Fair	Fair	Fair	Low	Poor amenity value		А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	-	Tree is not on site anymore
B2	T-9120	Leucaena leucocephala	銀合歡	8	0.10	3	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Low live crown ratio	Tree is not on site anymore
B2	T-9121	Acacia auriculiformis	耳果相思	9	0.13	3	Poor	Poor	Poor	Poor	Low	Species of low transplant survival rate	æ	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Low leaf density	Tree is not on site anymore
B2	T-9122	Leucaena leucocephala	銀合歡	8	0.12	5	Poor	Poor	Poor	Poor	Low	Undesirable invasive species		А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily vined; Low leaf density	Tree is not on site anymore
B2	T-9123	Macaranga tanarius var. tomentosa	血桐	6	0.18	6	Poor	Poor	Poor	Poor	Low	Species of poor amenity value	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Trunk crossed with other tree; Low leaf density	Tree is not on site anymore
B2	T-9124	Ficus microcarpa	榕樹	8	0.30	9	Poor	Poor	Fair	Poor	Low	Poor amenity value, form & structure	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Broken trunk; Heavily leaning	Tree is not on site anymore
B2	T-9125	Leucaena leucocephala	銀合歡	7	0.11	4	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Poor taper; Low live crown ratio	Tree is not on site anymore
B2	T-9126	Acacia auriculiformis	耳果相思	5	0.10	3	Poor	Poor	Poor	Poor	Low	Species of low transplant survival rate		А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily bent trunk; Heavily vined; Low leaf density	Tree is not on site anymore
B2	T-9127	Acacia auriculiformis	耳果相思	6	0.11	3	Poor	Poor	Poor	Poor	Low	Species of low transplant survival rate	-	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Low branching height; Heavily vined; Low leaf density	Tree is not on site anymore
B2	T-9128	Leucaena leucocephala	銀合歡	6	0.13	3	Poor	Poor	Poor	Poor	Low	Undesirable invasive species	-	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Low leaf density	Tree is not on site anymore
B2	T-9129	Leucaena leucocephala	銀合歡	7	0.12	6	Poor	Poor	Poor	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Moderately leaning; Low leaf density	Tree is not on site anymore
B2	T-9130	Acacia auriculiformis	耳果相思	7	0.10	3	Poor	Poor	Fair	Poor	Low	Species of low transplant survival rate		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning	Tree is not on site anymore
B2	T-9131	Acacia auriculiformis	耳果相思	4	0.14	5	Poor	Poor	Poor	Poor	Low	Species of low transplant	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Heavily vined; Low leaf density	Tree is not on site anymore
B2	T-9132	Macaranga tanarius var.	血桐	5	0.36	7	Poor	Poor	Poor	Poor	Low	survival rate Species of poor amenity		А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Severe asymmetric crown; Low	Tree is not on site anymore
B2	T-9133	tomentosa Litsea glutinosa	潺槁樹	4	0.12	3	Poor	Poor	Fair	Fair	Low	Poor amenity value & form		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	leaf density Heavily bent trunk	Tree is not on site anymore
B2	T-9134	Ficus subpisocarpa	筆管榕	3	0.12	4	Poor	Poor	Fair	Poor	Low	Poor amenity value, form &		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk	Tree is not on site anymore
B2	T-9135	Leucaena leucocephala	銀合歡	7	0.12	6	Poor	Poor	Poor	Fair		structure Undesirable invasive		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Low leaf density	Tree is not on site anymore
B2 B2	T-9136			6	0.10	3	1000	1923			Low	species Undesirable invasive	2 	152						
	9 - 12 Mar	Leucaena leucocephala	銀合歡	0		2223	Poor	Poor	Poor	Poor	Low	species Undesirable invasive	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily bent trunk; Low leaf density	Tree is not on site anymore
B2	T-9137	Leucaena leucocephala	銀合歡	9	0.16	5	Poor	Poor	Poor	Poor	Low	species Undesirable invasive	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Fallen down	Tree is not on site anymore
B2	T-9138	Leucaena leucocephala	銀合歡	7	0.13	5	Poor	Poor	Poor	Poor	Low	species Undesirable invasive		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Low leaf density	Tree is not on site anymore
B2	T-9139	Leucaena leucocephala	銀合歡	7	0.11	3	Poor	Poor	Poor	Poor	Low	species Undesirable invasive	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Low leaf density	Tree is not on site anymore
B2	T-9140	Leucaena leucocephala	銀合歡	8	0.10	3	Poor	Poor	Poor	Poor	Low	species	*	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Low leaf density	Tree is not on site anymore
B2	T-9141	Celtis sinensis	朴樹	6	0.10	4	Poor	Poor	Fair	Poor	Low	Poor amenity value, form & structure	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Poor taper; Low live crown ratio	Tree is not on site anymore
B2	T-9142	Leucaena leucocephala	銀合歡	7	0.12	3	Poor	Poor	Poor	Poor	Low	Undesirable invasive species	170	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Poor taper; Low live crown ratio	Tree is not on site anymore
B2	T-9143	Leucaena leucocephala	銀合歡	8	0.12	4	Poor	Poor	Poor	Poor	Low	Undesirable invasive species	2	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Poor taper; Low leaf density	Tree is not on site anymore
B2	T-9144	Leucaena leucocephala	銀合歡	7	0.11	4	Poor	Poor	Poor	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily bent trunk; Low leaf density	Tree is not on site anymore

																			Trees within GLA-SK 425 Survey Date: Aug 2015 - Mar 2016	
Appendix	Tree No.	Species		Press and	Measureme	nts	Tree	Condition (C	ood / Fair / F	Poor)	Suita	bility for Transplanting	the second s	How the Tree	Recommen-	Departmen	t to Provide	Expert Advice to LandsD	Additional Remarks	Status
B2	T-9145	Leucaena leucocephala	銀合歡	8	0.10	3	Poor	Poor	Poor	Poor	Low	Undesirable invasive	n Status	is Affected A	dation Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Low leaf density	Tree is not on site anymore
B2	T-9146	Leucaena leucocephala	銀合歡	8	0.11	3	Poor	Poor	Poor	Poor	Low	Species Undesirable invasive	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Low leaf density	Tree is not on site anymore
B2	T-9147	Acacia auriculiformis	耳果相思	8	0.31	8	Poor	Poor	Fair	Poor	Low	Species of low transplant	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Low branching height	Tree is not on site anymore
B2	T-9148	Leucaena leucocephala	銀合歡	8	0.10	2	Poor	Poor	Poor	Poor	Low	survival rate Undesirable invasive	2	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Low leaf density	Tree is not on site anymore
B2	T-9149	Leucaena leucocephala	銀合歡	8	0.10	3	Poor	Poor	Poor	Poor	Low	species Undesirable invasive	<u> </u>	Δ	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Low leaf density	Tree is not on site anymore
B2	T-9150	Leucaena leucocephala	銀合歡	5	0.10	4	Poor	Poor	Poor	Poor	Low	species Undesirable invasive		Δ	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Poor taper; Low leaf density	Tree is not on site anymore
	T-9151			0	0.27	7		Poor				species Species of low transplant			Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)		Tree is not on site anymore
B2		Acacia confusa	台灣相思	10			Poor		Fair	Poor	Low	survival rate Species of low transplant		^					Multi-trunk; Heavily leaning Multi-trunk; Poor taper; Low live crown	
B2	T-9152	Acacia confusa	台灣相思	10	0.12	4	Poor	Poor	Fair	Poor	Low	survival rate Species of low transplant	-	A .	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	ratio	Tree is not on site anymore
B2	T-9153	Acacia auriculiformis	耳果相思	6	0.19	5	Poor	Poor	Fair	Fair	Low	survival rate Undesirable invasive	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Low branching height	Tree is not on site anymore
B2	T-9154	Leucaena leucocephala	銀合歡	7	0.12	2	Poor	Poor	Fair	Poor	Low	species Species of low transplant	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Low live crown ratio	Tree is not on site anymore
B2	T-9155	Acacia confusa	台灣相思	10	0.18	7	Poor	Poor	Fair	Poor	Low	survival rate	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Heavily leaning; Poor taper	Tree is not on site anymore
B2	T-9156	Leucaena leucocephala	銀合歡	6	0.10	5	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning	Tree is not on site anymore
B2	T-9157	Acacia confusa	台灣相思	12	0.21	6	Poor	Poor	Fair	Poor	Low	Species of low transplant survival rate	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Poor taper	Tree is not on site anymore
B2	T-9158	Acacia confusa	台灣相思	11	0.21	6	Poor	Poor	Fair	Poor	Low	Species of low transplant survival rate	-	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Heavily leaning; Poor taper; Low live crown ratio	Tree is not on site anymore
B2	T-9159	Acacia auriculiformis	耳果相思	8	0.21	5	Poor	Poor	Poor	Poor	Low	Species of low transplant survival rate	-	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Fallen down and resprouted; Low leaf density	Tree is not on site anymore
B2	T-9160	Leucaena leucocephala	銀合歡	8	0.14	3	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	-	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Heavily leaning; Poor taper	Tree is not on site anymore
B2	T-9161	Acacia confusa	台灣相思	10	0.12	3	Poor	Poor	Fair	Poor	Low	Species of low transplant survival rate	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Heavily leaning; Poor taper; Low live crown ratio	Tree is not on site anymore
B2	T-9162	Acacia confusa	台灣相思	7	0.11	6	Poor	Poor	Fair	Poor	Low	Species of low transplant survival rate	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Dense epicormic growth	Tree is not on site anymore
B2	T-9163	Leucaena leucocephala	銀合歡	8	0.12	2	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Poor taper; Low live crown ratio	Tree is not on site anymore
B2	T-9164	Acacia confusa	台灣相思	10	0.19	5	Poor	Poor	Fair	Poor	Low	Species of low transplant survival rate	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Poor taper	Tree is not on site anymore
B2	T-9165	Acacia auriculiformis	耳果相思	6	0.12	3	Poor	Poor	Fair	Poor	Low	Species of low transplant survival rate	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Moderately leaning	Tree is not on site anymore
B2	T-9166	Leucaena leucocephala	銀合歡	8	0.14	3	Poor	Poor	Fair	Poor	Low	Undesirable invasive	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Low live crown ratio	Tree is not on site anymore
B2	T-9167	Bridelia tomentosa	土蜜樹	6	0.11	5	Poor	Poor	Fair	Poor	Low	species Poor amenity value, form &		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Poor taper	Tree is not on site anymore
B2	T-9168	Leucaena leucocephala	銀合歡	8	0.12	4	Poor	Poor	Fair	Poor	Low	Structure Undesirable invasive	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Low live crown ratio	Tree is not on site anymore
B2	T-9169	Leucaena leucocephala	銀合歡	8	0.14	6	Poor	Poor	Fair	Poor	Low	species Undesirable invasive		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Poor taper; Low live crown	Tree is not on site anymore
B2	T-9170	Leucaena leucocephala	銀合歡	11	0.14	4	Poor	Poor	Fair	Poor	Low	species Undesirable invasive		Δ	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	ratio Heavily leaning; Poor taper; Low live crown	Tree is not on site anymore
			Carlos Al Carlos Alexandre	9		2					Distribution of the second sec	species Undesirable invasive	-	A	Fell				ratio	Tree is not on site anymore
B2	T-9171	Leucaena leucocephala	銀合歡		0.10		Poor	Poor	Fair	Poor	Low	species Undesirable invasive	-	A		AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Low live crown ratio	
B2	T-9172	Leucaena leucocephala	銀合歡	8	0.16	5	Poor	Poor	Fair	Poor	Low	species Species of low transplant		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk Heavily leaning; Poor taper; Low live crown	Tree is not on site anymore
B2	T-9173	Acacia auriculiformis	耳果相思	11	0.10	2	Poor	Poor	Fair	Poor	Low	survival rate Species of low transplant	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	ratio	Thee is not on site anymore
B2	T-9174	Acacia auriculiformis	耳果相思	9	0.11	4	Poor	Poor	Fair	Poor	Low	survival rate Undesirable invasive	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning	Tree is not on site anymore
B2	T-9175	Leucaena leucocephala	銀合歡	8	0.11	2	Poor	Poor	Fair	Poor	Low	species	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Low live crown ratio	Tree is not on site anymore
B2	T-9176	Melia azedarach	楝	9	0.18	5	Poor	Poor	Fair	Poor	Low	Poor amenity value, form 8 structure	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Co-dominant stems	Tree is not on site anymore
B2	T-9177	Melia azedarach	楝	9	0.17	6	Poor	Poor	Fair	Poor	Low	Poor amenity value, form 8 structure	× -	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Heavily bent trunk	Tree is not on site anymore
B2	T-9178	Acacia auriculiformis	耳果相思	7	0.11	3	Poor	Poor	Fair	Poor	Low	Species of low transplant survival rate		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Moderately leaning; Poor taper	Tree is not on site anymore
B2	T-9179	Leucaena leucocephala	銀合歡	9	0.16	5	Poor	Poor	Fair	Poor	Low	Undesirable invasive species		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Poor taper	Tree is not on site anymore
B2	T-9180	Leucaena leucocephala	銀合歡	7	0.12	5	Poor	Poor	Fair	Poor	Low	Undesirable invasive species		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily bent trunk	Tree is not on site anymore
B2	T-9181	Acacia auriculiformis	耳果相思	8	0.13	4	Poor	Poor	Fair	Fair	Low	Species of low transplant survival rate	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Moderately leaning	Tree is not on site anymore
B2	T-9182	Ficus subpisocarpa	筆管榕	6	0.12	4	Poor	Poor	Poor	Poor	Low	Poor amenity value, form, health & structure	) <b>a</b> s	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Fallen down	Tree is not on site anymore
B2	T-9183	Leucaena leucocephala	銀合歡	6	0.10	3	Poor	Poor	Fair	Fair	Low	Undesirable invasive species	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Moderately leaning	Tree is not on site anymore
B2	T-9184	Leucaena leucocephala	銀合歡	9	0.12	5	Poor	Poor	Fair	Poor	Low	Undesirable invasive species		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning	Tree is not on site anymore
B2	T-9185	Acacia auriculiformis	耳果相思	7	0.11	3	Poor	Fair	Fair	Fair	Low	Species of low transplant	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	-	Tree is not on site anymore
B2	T-9186	Acacia auriculiformis	耳果相思	7	0.12	4	Poor	Poor	Poor	Poor	Low	Species of low transplant		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Low leaf density	Tree is not on site anymore
B2	T-9187	Acacia auriculiformis	耳果相思	6	0.12	3	Poor	Poor	Fair	Fair	Low	Species of low transplant		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily bent trunk	Tree is not on site anymore
B2	T-9189	Acacia auriculiformis	耳果相思	6	0.12	3	Poor	Poor	Fair	Poor	Low	survival rate Species of low transplant		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Low live crown ratio	Tree is not on site anymore
02	1-0100		中不用心	0	0.10		1001	1001	( all	FUU	LOW	survival rate			101	A OD	12			

																			<u>Trees within GLA-SK 425</u> Survey Date: Aug 2015 - Mar 2016	
Appendix	Tree No.	Species			Measureme	nts	Tree	Condition (	Good / Fair / F	Poor)	Suit	bility for Transplanting	Conservatio		Recommen-	Departmer	nt to Provide	Expert Advice to LandsD	Additional Remarks	Status
B2	T-9201	Litsea glutinosa	瀑槁樹	6	0.10	2	Poor	Poor	Poor	Poor	Low	Poor amenity value, form, health & structure	n Status -	is Affected A	dation Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily bent trunk; Heavily vined	Tree is not on site anymore
B2	T-9202	Macaranga tanarius var.	血桐	8	0.26	7	Poor	Poor	Poor	Poor	Low	Species of poor amenity		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily bent trunk; Heavily vined	Tree is not on site anymore
B2	T-9203	tomentosa Ficus hispida	對葉榕	7	0.10	3	Poor	Poor	Fair	Poor	Low	Value Species of poor amenity	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Low live crown ratio	Tree is not on site anymore
B2	T-9204	Macaranga tanarius var.	血桐	7	0.12	3	Poor	Poor	Fair	Poor	Low	Value Species of poor amenity	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Poor taper	Tree is not on site anymore
B2	T-9205	tomentosa Sterculia lanceolata	假蘋婆	5	0.10	3	Poor	Poor	Fair	Fair	Low	Value Poor amenity value & form	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Heavily vined	Tree is not on site anymore
B2	T-9206	Ficus hispida	對葉榕	7	0.10	3	Poor	Poor	Poor	Poor	Low	Species of poor amenity		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Heavily vined	Tree is not on site anymore
B2	T-9207	Macaranga tanarius var.	血桐	8	0.17	3	Poor	Poor	Poor	Poor	Low	value Species of poor amenity			Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Heavily vined	Tree is not on site anymore
B2	T-9208	tomentosa	對葉榕	7	0.13	5	Poor	Poor	Poor	Poor	Low	value Species of poor amenity		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Heavily vined	Tree is not on site anymore
		Ficus hispida Macaranga tanarius var.	-	,								value Species of poor amenity			Fell	AFCD				
B2	T-9209	tomentosa Macaranga tanarius var.	血桐	0	0.19	5	Poor	Poor	Poor	Poor	Low	value Species of poor amenity	-	A .	12002029		A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Heavily vined	Tree is not on site anymore
B2	T-9210	tomentosa	血桐	(	0.24	9	Poor	Poor	Poor	Poor	Low	value Undesirable invasive	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Heavily vined	Tree is not on site anymore
B2	T-9211	Leucaena leucocephala	銀合歡	12	0.27	10	Poor	Poor	Fair	Fair	Low	species Poor amenity value, form,	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems	Tree is not on site anymore
B2	T-9212	Melia azedarach	棟	9	0.13	3	Poor	Poor	Poor	Poor	Low	health & structure		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Heavily leaning: Low leaf	Tree is not on site anymore
B2	T-9213	Macaranga tanarius var. tomentosa	血桐	5	0.15	6	Poor	Poor	Poor	Poor	Low	Species of poor amenity value	•	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Heavily leaning; Low leaf density	Tree is not on site anymore
B2	T-9214	Macaranga tanarius var. tomentosa	血桐	4	0.10	4	Poor	Poor	Poor	Poor	Low	Species of poor amenity value	<b></b>	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Low leaf density	Tree is not on site anymore
B2	T-9215	Leucaena leucocephala	銀合歡	8	0.14	7	Poor	Poor	Poor	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Low leaf density	Tree is not on site anymore
B2	T-9216	Acacia auriculiformis	耳果相思	13	0.45	11	Poor	Fair	Fair	Fair	Low	Species of low transplant survival rate		А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Low branching height; Slight dieback	Tree is not on site anymore
B2	T-9217	Sapium sebiferum	烏桕	10	0.22	6	Poor	Poor	Fair	Fair	Low	Poor amenity value & form	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Moderately leaning	Tree is not on site anymore
B2	T-9218	Macaranga tanarius var. tomentosa	血桐	5	0.14	4	Poor	Poor	Poor	Poor	Low	Species of poor amenity value	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Heavily leaning; Low leaf density	Tree is not on site anymore
B2	T-9219	Ficus microcarpa	榕樹	5	0.15	6	Poor	Poor	Poor	Poor	Low	Poor amenity value, form, health & structure	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily bent trunk; Heavily vined	Tree is not on site anymore
В3	T-9220	Ficus microcarpa	榕樹	7	0.27	9	Poor	Poor	Poor	Poor	Low	Poor amenity value, form, health & structure	11771	A	Fell	AFCD	A3	Within CWBCP	Multi-trunk; Heavily leaning; Heavily vined	Tree is not on site anymore
В3	T-9221	Ficus virens	黄葛樹	6	0.29	7	Poor	Poor	Poor	Poor	Low	Poor amenity value, form, health & structure	12	A	Fell	AFCD	A3	Within CWBCP	Multi-trunk; Heavily leaning; Heavily vined	Tree is not on site anymore
В3	T-9222	Ficus microcarpa	榕樹	7	0.14	2	Poor	Poor	Poor	Poor	Low	Poor amenity value, form, health & structure		A	Fell	AFCD	A3	Within CWBCP	Heavily leaning; Heavily vined	Tree is not on site anymore
В3	T-9223	Ficus microcarpa	榕樹	4	0.14	5	Poor	Poor	Poor	Poor	Low	Poor amenity value, form, health & structure		A	Fell	AFCD	A3	Within CWBCP	Heavily leaning; Heavily vined	Tree is not on site anymore
В3	T-9224	Ficus hispida	對葉榕	4	0.13	4	Poor	Poor	Poor	Poor	Low	Species of poor amenity		A	Fell	AFCD	A3	Within CWBCP	Heavily leaning; Heavily vined	Tree is not on site anymore
В3	T-9225	Litsea glutinosa	潺槁樹	5	0.13	3	Poor	Poor	Poor	Poor	Low	Poor amenity value, form,	12	A	Fell	AFCD	A3	Within CWBCP	Heavily leaning; Heavily vined	Tree is not on site anymore
В3	T-9226	Sterculia lanceolata	假蘋婆	6	0.10	4	Poor	Poor	Poor	Poor	Low	health & structure Poor amenity value, form,	-	A	Fell	AFCD	A3	Within CWBCP	Heavily leaning; Heavily vined	Tree is not on site anymore
B3	T-9227	Sterculia lanceolata	假蘋婆	3	0.10	3	Poor	Poor	Poor	Poor	Low	health & structure Poor amenity value, form,		A	Fell	AFCD	A3	Within CWBCP	Poor taper; Heavily vined	Tree is not on site anymore
B3	T-9228	Sterculia lanceolata	假蘋婆	5	0.11	3	Poor	Poor	Poor	Poor	Low	Poor amenity value, form,		A	Fell	AFCD	A3	Within CWBCP	Heavily leaning; Heavily vined	Tree is not on site anymore
В3	T-9229			5		2						health & structure Poor amenity value, form,					A3			Tree is not on site anymore
		Sterculia lanceolata	假蘋婆	5	0.10		Poor	Poor	Poor	Poor	Low	health & structure Poor amenity value, form,	-	A .	Fell	AFCD		Within CWBCP	Twin stems; Poor taper; Heavily vined	
B3	T-9230	Sterculia lanceolata	假蘋婆	5	0.12	2	Poor	Poor	Poor	Poor	Low	health & structure Poor amenity value, form,		A	Fell	AFCD	A3	Within CWBCP	Twin stems; Poor taper; Heavily vined	Tree is not on site anymore
B3	T-9231	Sterculia lanceolata	假蘋婆	5	0.14	3	Poor	Poor	Poor	Poor	Low	health & structure Poor amenity value, form,		A	Fell	AFCD	A3	Within CWBCP	Twin stems; Heavily leaning; Heavily vined	2 0 10 12 12
B3	T-9232	Sterculia lanceolata	假蘋婆	3	0.12	3	Poor	Poor	Poor	Poor	Low	health & structure Poor amenity value, form,		A	Fell	AFCD	A3	Within CWBCP	Heavily leaning; Heavily vined	Tree is not on site anymore
B2	T-9233	Bridelia tomentosa	土蜜樹	5	0.14	6	Poor	Poor	Poor	Poor	Low	health & structure	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Poor taper; Heavily vined	Tree is not on site anymore
B2	T-9234	Leucaena leucocephala	銀合歡	6	0.10	4	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	•	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning	Tree is not on site anymore
B2	T-9235	Leucaena leucocephala	銀合歡	7	0.10	4	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	1991 -	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning	Tree is not on site anymore
B2	T-9236	Acacia confusa	台灣相思	8	0.40	8	Poor	Poor	Fair	Poor	Low	Species of low transplant survival rate		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Heavily leaning	Tree is not on site anymore
B2	T-9237	Celtis sinensis	朴樹	10	0.29	6	Poor	Poor	Poor	Poor	Low	Poor amenity value, form, health & structure	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Moderately leaning; Heavily vined	Tree is not on site anymore
B2	T-9238	Celtis sinensis	朴樹	4	0.10	3	Poor	Poor	Poor	Poor	Low	Poor amenity value, form, health & structure		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Heavily vined	Tree is not on site anymore
В3	T-9239	Leucaena leucocephala	銀合歡	6	0.10	4	Poor	Poor	Fair	Poor	Low	Undesirable invasive species		A	Fell	AFCD	A3	Within CWBCP	Twin stems; Heavily leaning	Tree is not on site anymore
B2	T-9240	Celtis sinensis	朴樹	3	0.10	2	Poor	Poor	Fair	Poor	Low	Poor amenity value, form & structure		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Poor taper	Tree is not on site anymore
B2	T-9241	Bridelia tomentosa	土蜜樹	2	0.10	3	Poor	Poor	Poor	Poor	Low	Poor amenity value, form, health & structure	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Heavily vined	Tree is not on site anymore
В3	T-9242	Celtis sinensis	朴樹	4	0.10	3	Poor	Poor	Poor	Poor	Low	Poor amenity value, form, health & structure		A	Fell	AFCD	A3	Within CWBCP	Twin stems; Heavily leaning; Heavily vined	Tree is not on site anymore
B2	T-9243	Bridelia tomentosa	土蜜樹	3	0.13	5	Poor	Poor	Fair	Poor	Low	Poor amenity value, form & structure		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems; Heavily leaning	Tree is not on site anymore
B2	T-9244	Celtis sinensis	朴樹	4	0.10	3	Poor	Poor	Fair	Poor	Low	Poor amenity value, form & structure	121	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Poor taper	Tree is not on site anymore
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																			Trees within GLA-SK 425 Survey Date: Aug 2015 - Mar 2016	STATUS UPDATED Feb-19 By GVL
Appendix	Tree No.	Species			Measureme	nts	Tree	Condition (	Good / Fair /	Poor)	Suita	bility for Transplanting	Conservatio n Status	How the Tree is Affected	Recommen- dation	Departmen	nt to Provide	Expert Advice to LandsD	Additional Remarks	Status
B3	T-9245	Ficus subpisocarpa	筆管榕	6	0.30	8	Poor	Poor	Fair	Poor	Low	Poor amenity value, form & structure		A	Fell	AFCD	A3	Within CWBCP	Multi-trunk; Heavily leaning	Tree is not on site anymore
B3	T-9246	Macaranga tanarius var.	血桐	5	0.12	3	Poor	Poor	Fair	Poor	Low	Species of poor amenity	-	A	Fell	AFCD	A3	Within CWBCP	Heavily leaning; Poor taper; Low live crown	Tree is not on site anymore
B3	T-9247	tomentosa Litsea glutinosa	漏稿樹	5	0.11	6	Poor	Poor	Fair	Poor	Low	Poor amenity value, form &	-	A	Fell	AFCD	A3	Within CWBCP	ratio Heavily leaning	Tree is not on site anymore
B3	T-9248	Bridelia tomentosa	土蜜樹	6	0.10	2	Poor	Poor	Poor	Poor	Low	Poor amenity value, form,		Α	Fell	AFCD	A3	Within CWBCP	Multi-trunk; Heavily leaning; Severe	Tree is not on site anymore
B3	T-9249	Macaranga tanarius var.	血桐	7	0.15	3	Poor	Poor	Fair	Poor	Low	health & structure Species of poor amenity		Δ	Fell	AFCD	A3	Within CWBCP	dieback Heavily leaning; Low live crown ratio	Tree is not on site anymore
B2	T-9250	tomentosa Ficus virens	黄葛樹	7	0.10	3	Poor	Poor	Fair	Poor	Low	value Poor amenity value, form &		<u>^</u>	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Rooted on rock cliff	Tree is not on site anymore
B2	T-9251		與 80 個 朴樹	8	0.10	6			Fair	Fair		structure	-	A	Fell	AFCD	A2 A2			
		Celtis sinensis	and the second second	7		5	Poor	Fair			Low	Poor amenity value Poor amenity value, form &	-					GLA-SK 425 (TLA to EPD)	Next to rock cliff	Tree is not on site anymore
B3	T-9252	Litsea glutinosa	潺槁樹	/	0.13	5	Poor	Poor	Fair	Poor	Low	structure Poor amenity value, form &	-	~	Fell	AFCD	A3	Within CWBCP	Heavily leaning	Tree is not on site anymore
B3	T-9253	Celtis sinensis	朴樹	8	0.18	5	Poor	Poor	Fair	Poor	Low	structure Undesirable invasive	-	A	Fell	AFCD	A3	Within CWBCP	Heavily leaning	Tree is not on site anymore
B3	T-9254	Leucaena leucocephala	銀合歡	10	0.15	5	Poor	Poor	Fair	Poor	Low	species	-	A	Fell	AFCD	A3	Within CWBCP	Heavily leaning; Poor taper	Tree is not on site anymore
B3	T-9255	Litsea glutinosa	漏槁樹	4	0.10	4	Poor	Poor	Poor	Poor	Low	Poor amenity value, form, health & structure	-	A	Fell	AFCD	A3	Within CWBCP	Heavily leaning; Heavily vined	Tree is not on site anymore
B3	T-9256	Litsea glutinosa	潺槁樹	5	0.10	4	Poor	Poor	Poor	Poor	Low	Poor amenity value, form, health & structure	÷	A	Fell	AFCD	A3	Within CWBCP	Heavily leaning; Heavily vined	Tree is not on site anymore
B3	T-9257	Litsea glutinosa	漏槁樹	4	0.11	3	Poor	Poor	Poor	Poor	Low	Poor amenity value, form, health & structure	-	A	Fell	AFCD	A3	Within CWBCP	Co-dominant stems; Heavily vined	Tree is not on site anymore
B3	T-9258	Leucaena leucocephala	銀合歡	10	0.22	9	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A3	Within CWBCP	Twin stems; Heavily leaning; Heavily vined	Tree is not on site anymore
B2	T-9259	Leucaena leucocephala	銀合歡	9	0.14	5	Poor	Poor	Fair	Fair	Low	Undesirable invasive species	-	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning	Tree is not on site anymore
B2	T-9260	Leucaena leucocephala	銀合歡	6	0.12	8	Poor	Poor	Poor	Poor	Low	Undesirable invasive species	-	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Fallen down	Tree is not on site anymore
B2	T-9261	Celtis sinensis	朴樹	8	0.14	4	Poor	Poor	Poor	Poor	Low	Poor amenity value, form, health & structure	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Poor taper; Heavily vined	Tree is not on site anymore
B2	T-9262	Celtis sinensis	朴樹	9	0.19	6	Poor	Poor	Fair	Fair	Low	Poor amenity value & form	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Slightly leaning; Next to rock cliff	Tree is not on site anymore
B2	T-9263	Leucaena leucocephala	銀合歡	9	0.14	4	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	-	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Partially uprooted; Heavily bent trunk; Poor taper	Tree is not on site anymore
B2	T-9264	Bridelia tomentosa	土蜜樹	8	0.12	4	Poor	Poor	Fair	Fair	Low	Poor amenity value & form	÷	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Poor taper; Next to rock cliff	Tree is not on site anymore
B2	T-9265	Leucaena leucocephala	銀合歡	11	0.18	8	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning	Tree is not on site anymore
B2	T-9266	Leucaena leucocephala	銀合歡	10	0.18	8	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Partially uprooted; Poor taper	Tree is not on site anymore
B3	T-9267	Leucaena leucocephala	銀合歡	10	0.15	7	Poor	Poor	Fair	Poor	Low	Undesirable invasive	-	A	Fell	AFCD	A3	Within CWBCP	Low live crown ratio	Tree is not on site anymore
B2	T-9268	Leucaena leucocephala	銀合歡	9	0.11	4	Poor	Poor	Fair	Poor	Low	species Undesirable invasive	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Poor taper	Tree is not on site anymore
B2	T-9269	Leucaena leucocephala	銀合歡	9	0.13	6	Poor	Poor	Fair	Poor	Low	Undesirable invasive		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Low live crown ratio	Tree is not on site anymore
В3	T-9270	Macaranga tanarius var.	血桐	7	0.18	6	Poor	Poor	Poor	Poor	Low	species Species of poor amenity		A	Fell	AFCD	A3	Within CWBCP	Multi-trunk; Heavily leaning; Low leaf	Tree is not on site anymore
B3	T-9271	tomentosa Leucaena leucocephala	銀合歡	12	0.19	9	Poor	Poor	Poor	Poor	Low	value Undesirable invasive		A	Fell	AFCD	A3	Within CWBCP	density Heavily leaning; Low leaf density	Tree is not on site anymore
B2	T-9272	Leucaena leucocephala	銀合歡	10	0.13	5		Poor	Poor	Fair		species Undesirable invasive		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Low leaf density	Tree is not on site anymore
	-Corestinated		Construction of the later		20 1800	5	Poor		120		Low	species Undesirable invasive			-3550-00					
B3	T-9273	Leucaena leucocephala	銀合歡	9	0.12	4	Poor	Poor	Poor	Poor	Low	species Undesirable invasive	-	A	Fell	AFCD	A3	Within CWBCP	Heavily leaning; Low leaf density	Tree is not on site anymore
B3	T-9274	Leucaena leucocephala	銀合歡	11	0.19	6	Poor	Poor	Poor	Poor	Low	species Undesirable invasive	-	A	Fell	AFCD	A3	Within CWBCP	Multi-trunk; Low leaf density	Tree is not on site anymore
B3	T-9275	Leucaena leucocephala	銀合歡	12	0.15	6	Poor	Poor	Poor	Poor	Low	species		A	Fell	AFCD	A3	Within CWBCP	Heavily leaning; Low leaf density Rooted on rock cliff; Partially uprooted;	Tree is not on site anymore
B3	T-9276	Glochidion zeylanicum	香港算盤子	5	0.14	5	Poor	Poor	Fair	Poor	Low	Poor amenity value, form & structure	5	A	Fell	AFCD	A3	Within CWBCP	Heavily leaning	Tree is not on site anymore
B3	T-9277	Sterculia lanceolata	假蘋婆	6	0.12	3	Poor	Poor	Fair	Fair	Low	Poor amenity value & form	-	A	Fell	AFCD	A3	Within CWBCP	Rooted on rock cliff; Moderately asymmetric crown	Tree is not on site anymore
В3	T-9278	Ficus hispida	對葉榕	6	0.13	4	Poor	Poor	Fair	Poor	Low	Species of poor amenity value	-	A	Fell	AFCD	A3	Within CWBCP	Rooted on rock cliff; Twin stems; Heavily leaning	Tree is not on site anymore
В3	T-9279	Ficus microcarpa	榕樹	10	0.22	6	Poor	Poor	Fair	Poor	Low	Poor amenity value, form & structure	-	A	Fell	AFCD	A3	Within CWBCP	Rooted on rock cliff; Multi-trunk	Tree is not on site anymore
В3	T-9280	Leucaena leucocephala	銀合歡	8	0.13	7	Poor	Poor	Poor	Poor	Low	Undesirable invasive species		А	Fell	AFCD	A3	Within CWBCP	Heavily leaning; Poor taper; Low leaf density	Tree is not on site anymore
В3	T-9281	Macaranga tanarius var. tomentosa	血桐	7	0.23	5	Poor	Poor	Poor	Poor	Low	Species of poor amenity value		A	Fell	AFCD	A3	Within CWBCP	Low branching height; Heavily bent trunk; Low leaf density	Tree is not on site anymore
В3	T-9282	Celtis sinensis	朴樹	12	0.23	8	Poor	Poor	Fair	Poor	Low	Poor amenity value, form & structure	-	A	Fell	AFCD	A3	Within CWBCP	Rooted on rock cliff; Heavily bent trunk; Poor taper	Tree is not on site anymore
В3	T-9283	Celtis sinensis	朴樹	10	0.20	7	Poor	Poor	Fair	Poor	Low	Poor amenity value, form & structure	- 1	А	Fell	AFCD	A3	Within CWBCP	Heavily leaning; Heavily bent trunk; Poor taper	Tree is not on site anymore
В3	T-9284	Mimosa bimucronata	光莢含羞草	7	0.16	4	Poor	Poor	Fair	Poor	Low	Species of poor amenity value		A	Fell	AFCD	A3	Within CWBCP	Multi-trunk; Shrubby form	Tree is not on site anymore
В3	T-9285	Celtis sinensis	朴樹	6	0.12	3	Poor	Poor	Fair	Poor	Low	Poor amenity value, form & structure	-	A	Fell	AFCD	A3	Within CWBCP	Poor taper; Low live crown ratio	Tree is not on site anymore
В3	T-9286	Sterculia lanceolata	假蘋婆	5	0.11	3	Poor	Poor	Fair	Poor	Low	Poor amenity value, form & structure	1 <u>1</u> 12	A	Fell	AFCD	A3	Within CWBCP	Poor taper; Low live crown ratio	Tree is not on site anymore
В3	T-9287	Bridelia tomentosa	土蜜樹	4	0.14	3	Poor	Poor	Fair	Poor	Low	Poor amenity value, form &	-	A	Fell	AFCD	A3	Within CWBCP	Multi-trunk; Moderately leaning; Heavily	Tree is not on site anymore
B3	T-9288	Acacia auriculiformis	耳果相思	11	0.28	10	Poor	Poor	Poor	Poor	Low	Species of low transplant	-	A	Fell	AFCD	A3	Within CWBCP	Low branching height; Heavily vined; Low	Tree is not on site anymore
			-TAIS (1476)		0.20		1.001	1.551	1.5.51	1.001	2.511	survival rate							leaf density	

																			Trees within GLA-SK 425 Survey Date: Aug 2015 - Mar 2016	
Appendix	Tree No.	Species		194	Measureme	nts	Tree	Condition (C	Good / Fair /	Poor)	Suita	bility for Transplanting	Conservatio	How the Tree	Recommen-	Departme	nt to Provide	Expert Advice to LandsD	Additional Remarks	Status
В3	T-9289	Glochidion zeylanicum	香港算盤子	4	0.15	5	Poor	Poor	Fair	Poor	Low	Poor amenity value, form & structure	n Status	is Affected A	dation Fell	AFCD	A3	Within CWBCP	Low branching height; Heavily bent trunk; Poor taper	Tree is not on site anymore
B3	T-9292	Leucaena leucocephala	銀合歡	11	0.11	5	Poor	Poor	Poor	Poor	Low	Undesirable invasive	-	A	Fell	AFCD	A3	Within CWBCP	Multi-trunk; Fallen down and resprouted;	Tree is not on site anymore
В3	T-9293	Leucaena leucocephala	銀合歡	10	0.15	6	Poor	Poor	Poor	Poor	Low	species Undesirable invasive	S=)	A	Fell	AFCD	A3	Within CWBCP	Low leaf density Heavily bent trunk; Low leaf density	Tree is not on site anymore
B3	T-9294	Leucaena leucocephala	銀合歡	12	0.13	5	Poor	Poor	Poor	Poor	Low	species Undesirable invasive	-	A	Fell	AFCD	A3	Within CWBCP	Multi-trunk; Fallen down and resprouted;	Tree is not on site anymore
B3	T-9295	Leucaena leucocephala	銀合歡	• 10	0.13	6	Poor	Poor	Poor	Poor	Low	species Undesirable invasive		Δ	Fell	AFCD	A3	Within CWBCP	Poor taper Multi-trunk; Fallen down and resprouted;	Tree is not on site anymore
B3	T-9296	Leucaena leucocephala	a constantin	13	0.13	5	Poor	Poor	Fair	Poor	Low	species Undesirable invasive		Δ	Fell	AFCD	A3	Within CWBCP	Poor taper Heavily leaning; Poor taper; Low live crown	
B3	T-9298		銀合歡	7	VILLENSE	8	1722	1425	Lange of the second sec			species Poor amenity value, form &		^	Fell	AFCD	A3	Within CWBCP	ratio Multi-trunk	Tree is not on site anymore
		Ficus virens	黄葛樹	1	0.24		Poor	Poor	Fair	Poor	Low	structure Undesirable invasive	-	^	312522394				Heavily leaning; Poor taper; Low leaf	
B2	T-9290	Leucaena leucocephala	銀合歡	8	0.11	P	Poor	Poor	Poor	Poor	Low	species Undesirable invasive	•	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	density	Tree is not on site anymore
B2	T-9291	Leucaena leucocephala Macaranga tanarius var.	銀合歡	1	0.10	4	Poor	Poor	Fair	Poor	Low	species Species of poor amenity		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Low live crown ratio Heavily leaning; Poor taper; Low leaf	Tree is not on site anymore
B2	T-9297	tomentosa	血桐	6	0.10	5	Poor	Poor	Poor	Poor	Low	value Species of low transplant		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	density	Tree is not on site anymore
B2	T-9299	Acacia confusa	台灣相思	10	0.49	9	Poor	Poor	Fair	Poor	Low	survival rate	1.	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk; Low live crown ratio	Tree is not on site anymore
B2	T-9300	Macaranga tanarius var. tomentosa	血桐	8	0.15	5	Poor	Poor	Poor	Poor	Low	Species of poor amenity value		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Heavily leaning; Poor taper; Low leaf density	Tree is not on site anymore
B2	T-9316	Macaranga tanarius var. tomentosa	血桐	5	0.18	6	Poor	Poor	Fair	Fair	Low	Species of poor amenity value	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	On rock slope; Heavily leaning; Low branching height	Tree is not on site anymore
B2	T-9317	Macaranga tanarius var. tomentosa	血桐	4	0.11	5	Poor	Poor	Fair	Fair	Low	Species of poor amenity value		А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	On rock slope; Heavily leaning; Low branching height	Tree is not on site anymore
B2	T-9318	Macaranga tanarius var. tomentosa	血桐	3	0.11	4	Poor	Poor	Poor	Poor	Low	Species of poor amenity value	-	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	On rock slope; Heavily leaning; Low leaf density	Tree is not on site anymore
B2	T-9319	Celtis sinensis	朴樹	6	0.18	6	Poor	Poor	Fair	Poor	Low	Poor amenity value, form & structure		А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	On rock slope; Heavily leaning; Low branching height	Tree is not on site anymore
B2	T-9320	Acacia auriculiformis	耳果相思	8	0.20	6	Poor	Poor	Poor	Poor	Low	Species of low transplant survival rate	-	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	On rock slope; Heavily leaning; Low leaf density	Tree is not on site anymore
B2	T-9321	Leucaena leucocephala	銀合歡	7	0.10	5	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	-	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	On rock slope; Heavily leaning	Tree is not on site anymore
B2	T-9322	Acacia auriculiformis	耳果相思	8	0.15	4	Poor	Poor	Fair	Fair	Low	Species of low transplant survival rate	-	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	On rock slope; Moderately leaning; Heavily vined	Tree is not on site anymore
B2	T-9323	Sterculia lanceolata	假蘋婆	6	0.11	4	Poor	Poor	Fair	Fair	Low	Poor amenity value & form	. <del></del>	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	On rock slope; Heavily vined	Tree is not on site anymore
B2	T-9438	Mangifera indica	杧果	6	0.17	5	Fair	Fair	Fair	Poor	Low	Poor structure	-	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Closely spaced co-dominant stems	Tree is not on site anymore
B2	T-9439	Leucaena leucocephala	銀合歡	6	0.14	5	Poor	Poor	Fair	Fair	Low	Undesirable invasive species	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Low branching height	Tree is not on site anymore
B2	T-9440	Melia azedarach	楝	9	0.25	7	Poor	Poor	Fair	Fair	Low	Poor amenity value & form	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Slightly leaning; Moderately asymmetric crown	Tree is not on site anymore
B2	T-9441	Melia azedarach	楝	9	0.40	7	Poor	Poor	Fair	Poor	Low	Poor amenity value, form &		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Multi-trunk	Tree is not on site anymore
B2	T-9442	Melia azedarach	棟	7	0.15	4	Poor	Poor	Fair	Poor	Low	Poor amenity value, form &	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems	Tree is not on site anymore
B2	T-9443	Leucaena leucocephala	銀合歡	5	0.11	4	Poor	Poor	Fair	Poor	Low	Structure Undesirable invasive		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems	Tree is not on site anymore
B2	T-9444	Leucaena leucocephala	銀合歡	6	0.11	2	Poor	Poor	Fair	Poor	Low	Species Undesirable invasive	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Twin stems	Tree is not on site anymore
B2	T-9447	Acacia confusa	台灣相思	8	0.28	7	Poor	Poor	Fair	Poor	Low	species Species of low transplant		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	At edge of concrete ditch; Heavily bent	Tree is not on site anymore
B2	T-9448			2	-							survival rate Species of low transplant		2	Fell	AFCD		GLA-SK 425 (TLA to EPD)	trunk At edge of concrete ditch; Heavily bent	Tree is not on site anymore
		Acacia confusa	台灣相思	3	0.10		Poor	Poor	Fair	Poor	Low	survival rate Species of low transplant	-	A			A2		trunk At edge of concrete ditch; Heavily bent	
B2	T-9449	Acacia confusa	台灣相思	6	0.14	3	Poor	Poor	Fair	Poor	Low	survival rate Species of low transplant	-	A .	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	trunk At edge of concrete ditch; Twin stems;	Tree is not on site anymore
B2	T-9450	Acacia confusa	台灣相思	8	0.19	6	Poor	Poor	Fair	Poor	Low	survival rate Species of low transplant		A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Moderately leaning At edge of concrete ditch; Moderately	Tree is not on site anymore
B2	T-9451	Acacia confusa	台灣相思	9	0.16	5	Poor	Poor	Fair	Poor	Low	survival rate Species of low transplant	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	leaning; Poor taper At edge of concrete ditch; Moderately	Tree is not on site anymore
B2	T-9452	Acacia confusa	台灣相思	8	0.15	5	Poor	Poor	Fair	Poor	Low	survival rate Species of low transplant	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	leaning; Poor taper	Tree is not on site anymore
B2	T-9453	Acacia confusa	台灣相思	5	0.15	3	Poor	Poor	Fair	Poor	Low	survival rate	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	At edge of concrete ditch; Heavily leaning; Heavily bent trunk	Tree is not on site anymore
B2	T-9454	Acacia confusa	台灣相思	8	0.17	5	Poor	Poor	Fair	Poor	Low	Species of low transplant survival rate	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	At edge of concrete ditch; Heavily leaning; Low live crown ratio	Tree is not on site anymore
B2	T-9455	Acacia confusa	台灣相思	8	0.25	7	Poor	Poor	Fair	Poor	Low	Species of low transplant survival rate	-	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	At edge of concrete ditch; Multi-trunk	Tree is not on site anymore
B2	T-9456	Acacia confusa	台灣相思	8	0.22	7	Poor	Poor	Fair	Poor	Low	Species of low transplant survival rate	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	At edge of concrete ditch; Low branching height; Poor taper	Tree is not on site anymore
B2	T-9457	Acacia confusa	台灣相思	8	0.19	6	Poor	Poor	Fair	Poor	Low	Species of low transplant survival rate		А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	At edge of concrete ditch; Heavily leaning; Poor taper	Tree is not on site anymore
B2	T-9458	Acacia confusa	台灣相思	9	0.28	6	Poor	Poor	Fair	Poor	Low	Species of low transplant survival rate	#3	А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	At edge of concrete ditch; Twin stems; Moderately leaning	Tree is not on site anymore
B2	T-9459	Leucaena leucocephala	銀合歡	9	0.34	11	Poor	Poor	Poor	Poor	Low	Undesirable invasive species	÷.	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	At edge of concrete ditch; Low leaf density	Tree is not on site anymore
B2	<b>T-9460</b>	Acacia confusa	台灣相思	9	0.33	10	Poor	Poor	Fair	Poor	Low	Species of low transplant survival rate	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	At edge of concrete ditch; Twin stems; Moderately leaning	Tree is not on site anymore
B2	T-9461	Acacia confusa	台灣相思	9	0.25	6	Poor	Poor	Fair	Poor	Low	Species of low transplant survival rate	-	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	At edge of concrete ditch; Heavily leaning	Tree is not on site anymore
B2	T-9462	Leucaena leucocephala	銀合歡	11	0.17	6	Poor	Poor	Fair	Poor	Low	Undesirable invasive species	e.	A	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	At edge of concrete ditch; Low live crown ratio	Tree is not on site anymore
B2	T-9464	Acacia confusa	台灣相思	4	0.12	4	Poor	Poor	Fair	Fair	Low	Species of low transplant survival rate		А	Fell	AFCD	A2	GLA-SK 425 (TLA to EPD)	Moderately bent trunk	Tree is not on site anymore
					l		l					Sal Yiyai Tato								l

By Status	Additional Remarks	Expert Advice to LandsD	nt to Provide	Departmen	Recommen-	Conservatio How the Tree	bility for Transplanting	Suital	oor)	ood / Fair / P	Condition (G	Tree	nts	Measuremen	1		Species	Tree No.	Appendix
Tree is not on site anymore		GLA-SK 425 (TLA to EPD)	A2	AFCD	dation Fell	n Status is Affected	Species of low transplant survival rate	Low	Poor	Fair	Poor	Poor	7	0.33	10	台灣相思	Acacia confusa	T-9465	B2
Tree is not on site anymo	Heavily leaning; Poor taper	GLA-SK 425 (TLA to EPD)	A2	AFCD	Fell	- A	Species of low transplant survival rate	Low	Poor	Fair	Poor	Poor	4	0.15	10	台灣相思	Acacia confusa	T-9466	B2
Tree is not on site anymo	Heavily leaning; Poor taper	GLA-SK 425 (TLA to EPD)	A2	AFCD	Fell	- A	Species of low transplant survival rate	Low	Poor	Fair	Poor	Poor	4	0.10	6	台灣相思	Acacia confusa	T-9467	B2
Tree is not on site anymo	Multi-trunk	GLA-SK 425 (TLA to EPD)	A2	AFCD	Fell	- A	Species of low transplant survival rate	Low	Poor	Fair	Poor	Poor	8	0.26	8	台灣相思	Acacia confusa	T-9468	B2
Tree is not on site anymo	Heavily leaning	GLA-SK 425 (TLA to EPD)	A2	AFCD	Fell	- A	Species of low transplant survival rate	Low	Poor	Fair	Poor	Poor	2	0.11	3	台灣相思	Acacia confusa	T-9469	B2
Tree is not on site anymo	At edge of concrete ditch	GLA-SK 425 (TLA to EPD)	A2	AFCD	Fell	- A	Undesirable invasive species	Low	Fair	Fair	Poor	Poor	4	0.10	6	銀合歡	Leucaena leucocephala	T-9471	B2
Tree is not on site anymo	Heavily leaning; Poor taper; Low leaf density	GLA-SK 425 (TLA to EPD)	A2	AFCD	Fell	- A	Undesirable invasive species	Low	Poor	Poor	Poor	Poor	6	0.18	8	銀合歡	Leucaena leucocephala	T-9501	B2
Tree is not on site anymo	Heavily bent trunk; Poor taper; Low leaf density	GLA-SK 425 (TLA to EPD)	A2	AFCD	Fell	- A	Undesirable invasive species	Low	Poor	Poor	Poor	Poor	8	0.18	9	銀合歡	Leucaena leucocephala	T-9502	B2
Tree is not on site anymo	Heavily leaning; Poor taper; Low leaf density	GLA-SK 425 (TLA to EPD)	A2	AFCD	Fell	- A	Undesirable invasive species	Low	Poor	Poor	Poor	Poor	5	0.15	9	銀合歡	Leucaena leucocephala	T-9503	B2
Tree is not on site anymo	Heavily bent trunk; Low leaf density	GLA-SK 425 (TLA to EPD)	A2	AFCD	Fell	- A	Undesirable invasive species	Low	Poor	Poor	Poor	Poor	4	0.17	11	銀合歡	Leucaena leucocephala	T-9504	B2
Tree is not on site anymo	Heavily vined; Low leaf density	GLA-SK 425 (TLA to EPD)	A2	AFCD	Fell	- A	Species of low transplant survival rate	Low	Poor	Poor	Poor	Poor	5	0.17	8	台灣相思	Acacia confusa	T-9505	B2
Tree is not on site anymo	Broken leader; Heavily vined; Low leaf density	GLA-SK 425 (TLA to EPD)	A2	AFCD	Fell	- A	Species of low transplant survival rate	Low	Poor	Poor	Poor	Poor	3	0.13	6	台灣相思	Acacia confusa	T-9506	B2
Tree is not on site anymo	Poor taper; Low leaf density	Within CWBCP	A3	AFCD	Fell	- A	Species of poor amenity value	Low	Poor	Poor	Poor	Poor	4	0.18	9	血桐	Macaranga tanarius var. tomentosa	T-9507	В3
Tree is not on site anymo	Heavily bent trunk; Poor taper; Low leaf density	Within CWBCP	A3	AFCD	Fell	- A	Undesirable invasive species	Low	Poor	Poor	Poor	Poor	6	0.16	11	銀合歡	Leucaena leucocephala	T-9509	В3
Tree is not on site anymo	Heavily leaning; Poor taper; Low leaf density	Within CWBCP	A3	AFCD	Fell	- A	Species of poor amenity value	Low	Poor	Poor	Poor	Poor	6	0.17	6	血桐	Macaranga tanarius var. tomentosa	T-9510	В3
Tree is not on site anymo	Fallen down	Within CWBCP	A3	AFCD	Fell	- A	Undesirable invasive species	Low	Poor	Poor	Poor	Poor	5	0.18	11	銀合歡	Leucaena leucocephala	T-9511	В3
Tree is not on site anymo	On rock slope; Heavily vined	Within CWBCP	A3	AFCD	Fell	- A	On slope, impractical to prepare a proper rootball	Low	Fair	Fair	Poor	Poor	7	0.29	12	朴樹	Celtis sinensis	T-9512	B3
Tree is not on site anymo	On rock slope; Multiple broken branches; Almost dead	Within CWBCP	A3	AFCD	Fell	- A	Species of poor amenity value	Low	Poor	Poor	Poor	Poor	5	0.13	4	血桐	Macaranga tanarius var. tomentosa	T-9513	В3
Tree is not on site anymo	On rock slope; Heavily bent trunk; Poor taper; Heavily vined	Within CWBCP	A3	AFCD	Fell	- A	Poor amenity value, form, health & structure	Low	Poor	Poor	Poor	Poor	5	0.15	6	朴樹	Celtis sinensis	T-9514	В3
Tree is not on site anymo	On rock slope; Heavily bent trunk; Low live crown ratio; Heavily vined	Within CWBCP	A3	AFCD	Fell	- A	Poor amenity value, form, health & structure	Low	Poor	Poor	Poor	Poor	3	0.10	5	朴樹	Celtis sinensis	T-9515	B3
Tree is not on site anymo	Twin stems; Heavily leaning; Low live crown ratio	Within CWBCP	A3	AFCD	Fell	- A	Poor amenity value, form & structure	Low	Poor	Fair	Poor	Poor	4	0.12	7	土蜜樹	Bridelia tomentosa	T-9516	В3
Tree is not on site anymo	On rock slope; Heavily leaning; Poor taper	Within CWBCP	A3	AFCD	Fell	- A	Undesirable invasive species	Low	Poor	Fair	Poor	Poor	3	0.10	8	銀合歡	Leucaena leucocephala	T-9517	В3
Tree is not on site anymo	Heavily bent trunk; Low leaf density	GLA-SK 425 (TLA to EPD)	A2	AFCD	Fell	- A	Species of poor amenity value	Low	Poor	Poor	Poor	Poor	6	0.16	8	血桐	Macaranga tanarius var. tomentosa	T-9518	B2
Tree is not on site anymo	On rock slope; Heavily leaning; Poor taper; Low leaf density	Within CWBCP	A3	AFCD	Fell	- A	Species of poor amenity value	Low	Poor	Poor	Poor	Poor	4	0.15	8	血桐	Macaranga tanarius var. tomentosa	T-9519	B3

Tree removed: Removal % 375 4.1





翠谷工程有限公司 Green Valley Landfill, Limited

29 April 2019 *EV* Our Ref: GB/EZ/VC/60976/19/tt

Ove Arup & Partners Hong Kong Limited SENTX Site Office

Attn: Mr. Cliff Ko

Dear Sirs,

Contract No EP/SP/10/91 South-East New Territories (SENT) Landfill Extension **Trees Removal at SENT Infrastructure Area** 

We write to respond to your letter dated 8 April 2019 (ARUP letter ref: 243618/99/SENTX/C60/100/(0100)) with same numbering as below:

- 1. Comment noted.
- 2. Comment noted.
- 3. Comment noted.
- 4. The trees felling for SENT infrastructure will be conducted within two years according to the Master Programme.
- 5. Comment noted.
- 6. Comment noted.
- 7. It is not anticipated that the trees felling exercise along the slope of north side of SENT infrastructure would affect DP3. The trees to be felled are away from the exposed part of DP3 channel. We will closely monitor the felling exercise and implement measures, if needed, to avoid DP3 being affected.
- 8. Comment noted.
- 9. Comment noted.
- 10. Comment noted.

Should you have any questions, please do not hesitate to contact our Mr. Carl Lai at 2706 8829.





Page TWO Our Ref: GB/EZ/VC/60976/19/tt

Yours faithfully For an on behalf of **GREEN VALLEY LANDFILL LIMITED** 

Gary Barnicott General Manager

CC: Vincent Woo – EPD (1 copy) Helen Cochrane / John Steaton – MIEL (2 copies) GB, CL, RC, EZ, JC, VC – GVL



翠谷工程有限公司 Green Valley Landfill, Limited

21 May 2019 Our Ref: JC/CL/SC/61188/19/tt

Agriculture, Fisheries and Conservation Department 6/F Cheung Sha Wan Government Offices 303 Cheung Sha Wan Road, Kowloon

Attn: Mr. Lau Yin Pong

Dear Sirs,

Contract No. EP/SP/10/91 South-East New Territories (SENT) Landfill Extension Commencement of Tree Removal at SENT Infrastructure Area for SENT Landfill Extension (SENTX)

Please be advised that, GVL will be commencing Stage 1 tree removal for SENTX at SENT existing infrastructure area (see attached mark up plan).

The dates for commencement of Stage 2 tree removal at the "Piggy back" area and transplantation of the existing trees will be advised later.

This proposed work is under the approval Tree preservation and Removal Application (ref: 243618/16/001 to 12) submitted on 21 July 2017.

Should you have any questions, please do not hesitate to contact our Mr Carl Lai on (852) 2706 8829 or (852) 9789 3831.

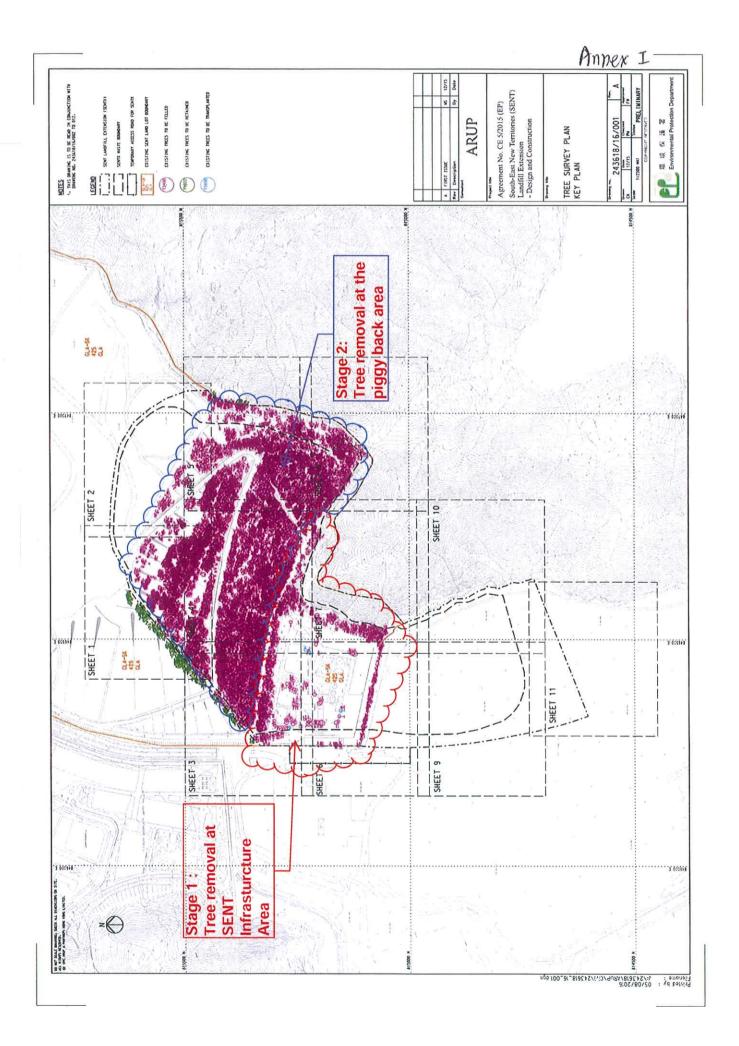
Yours faithfully For an on behalf of GREEN VALLEY LANDFILL LIMITED

Gary Barnicott General Manager

Encl.

cc: Vincent Woo / Yu Pui Shan / Chan Lai Mei – EPD (3 copies) Helen Cochrane / John Steaton – MIEL (2 copies) Cliff Ko – Arup (1 copy) Frank Wan – ERM (1copy) JC, EZ, GB, FL, CL, RC, RL – GVL







翠谷工程有限公司 Green Valley Landfill, Limited

28 May 2019

Our Ref: JC/CL/61236/19/tt

Ove Arup & Partners Hong Kong Limited SENTX Site Office

Attn: Mr. Cliff Ko

Dear Sirs,

Contract No EP/SP/10/91 South-East New Territories (SENT) Landfill Extension **Trees Removal at SENT Infrastructure Area** 

With reference to your letter dated 9 May 2019 (your ref: 243618/99/SENTX/C60/1008/(0139)), please find below our responses to your comments:

### Comment

1. Please notify the Country and Marine Parks Authority on your commencement of the proposed works of tree removal according to AFCD's approval condition No.2 in Annex II of the Appendix 26.4.5 "Approval to Tree Preservation and Removal Application" under SA2.

### Response

Thanks for your reminder, we have tried many times contacting Mr Cheong Kwok Wah – Andy, Country Park Ranger on Tel: 2791 6413 as per condition no.2 in Annex II of the Appendix 26.4.5, but to no avail. As per your email recommendation on 20 May 2019, we have formally notified AFCD, Mr Lau Yin Pong (Please refer to GVL letter ref: JC/CL/SC/61188/19/tt dated 21 May 2019).

### Comment

2. Please check and verify to ensure that all works in connection to the proposed works of tree removal and reinstatement are not within the existing country parks.

### Response

We have checked and confirmed that all works in connection to the proposal works of tree removal and reinstatement are inside SENTX and not within the existing country park.





### Page TWO Our Ref: JC/CL/61236/19/tt

### Comment

3. Please submit proposal to temporarily reinstate the area of any phased completion of the proposal tree removal in the existing SENT infrastructure area.

### Response

Our intention is to chop down the trees leaving the roots in situ at the infrastructure area hence not disturbing the surrounding ground. The in situ roots would be removed during demolition of the infrastructure area and formation of base cell #4.

### Comment

4. Tree felling should be conducted progressively. One-off massive felling of trees should be avoided. Please provided a details works programme for the proposal tree removal works in the existing SENT infrastructure area.

### Response

Comments noted. For the infrastructure area the trees to be removed are scattered whereas at the piggy back areas they are move concentrated. For the piggy black area, the felling rate will be dictated by a number of factors but we will try to adopt a progressive approach whenever possible. For you information we target to commence trees removal (stage 1) at the infrastructure area in 2019 and follow by the piggy back area (stage 2). For detail please refer to attached mark up plan. The rate of removal will be dictated by market demand for wood chips produced from the trees removal. As mentioned in Response #3, GVL will remove the trees leaving the roots insitu and the surrounding ground undisturbed so it is less visually intrusive and minimise muddy surface water. At the piggy back slopes, the insitu tree roots together with the soil layers would be removed progressively for landfilling.

### Comment

5. Method statement and risk assessment and risk for tree removal shall be submitted to the IC for review and certification.

### Response

GVL have responded to IC's comments on our method statement and risk assessment submission for tree felling on 7 May 2019 (our ref: JC/EZ/CL/61066/19/tt).



Page THREE Our Ref: JC/CL/61236/19/tt

Comment

6. Noted.

Response

N/A

Comment

7. Construction phase impact monitoring should be conducted as per the requirements stipulated in the EM&A manual and Contract specifications. Please elaborate and clarify whether your proposal tree removal works will induce discharge to DP3 in connection to your proposed deferment of the baseline monitoring at this discharge point.

### Response

Stage 1 of trees removal (see attached mark-up plan) at SENT infrastructure area is nowhere near DP3. Same as response #3, we will remove the trees leaving the roots in situ not disturbing the surround area hence it should not affect the water quality discharge to DP3.

### Comment

8. Please conduct necessary landscape and visual monitoring and review according to the EM&A manual. In this connection, please seek the view of the ETL and IEC on the proposed tree removal works in the existing SENT infrastructure area.

### Response

ET has been conducting the monthly site inspection to monitor the implementation of the landscape and visual (L&V) mitigation measures during construction phase as per the updated EM&A Manual. Monthly L&V observation forms verified by Registered Landscape Architect have been issued for January to April 2019 and ET will continue to conduct the monthly L&V site inspection. The ETL and IEC are both cc copied on this submission and they welcome to provide their comments. We will also provide them copies of the previous correspondence.



Page FOUR Our Ref: JC/CL/61236/19/tt

### Comment

9. Please clarify the status of the submission of the Restoration and Ecological Enhancement Plan which shall be submitted for the approval of EPD within six months after the commencement of construction of the project according to the Special Condition of the EP. You such submission is outstanding.

### Response

Noted. We are still preparing the Restoration and Ecological Enhancement Plan and target to submit by end June 2019 as per the EP.

### Comment

10. Your tree compensation plan shall be submitted for the approval of the Country and Marine Parks Authority within six months after the commencement of construction of the proposed works. This tree compensation plan shall conform to the information, requirements and recommendations give in the Restoration and Ecological Enhancement Plan approval by EPD. Your such submission is outstanding.

### Response

The Landscape Master plan will include compensation planting proposal as per the contract Appendix 26.4.5 (see attached advance copy of the Landscape Master Plan drawing). The Landscape Master Plan will be submitted with the Restoration and Ecological Enhancement Plan after review by ETL and IEC by end June 2019.

Should you have any questions, please do not hesitate to contact our Mr. Carl Lai at 2706 8829.

Yours faithfully For an on behalf of **GREEN VALLEY LANDFILL LIMITED** 

Gary Barnicott General Manager

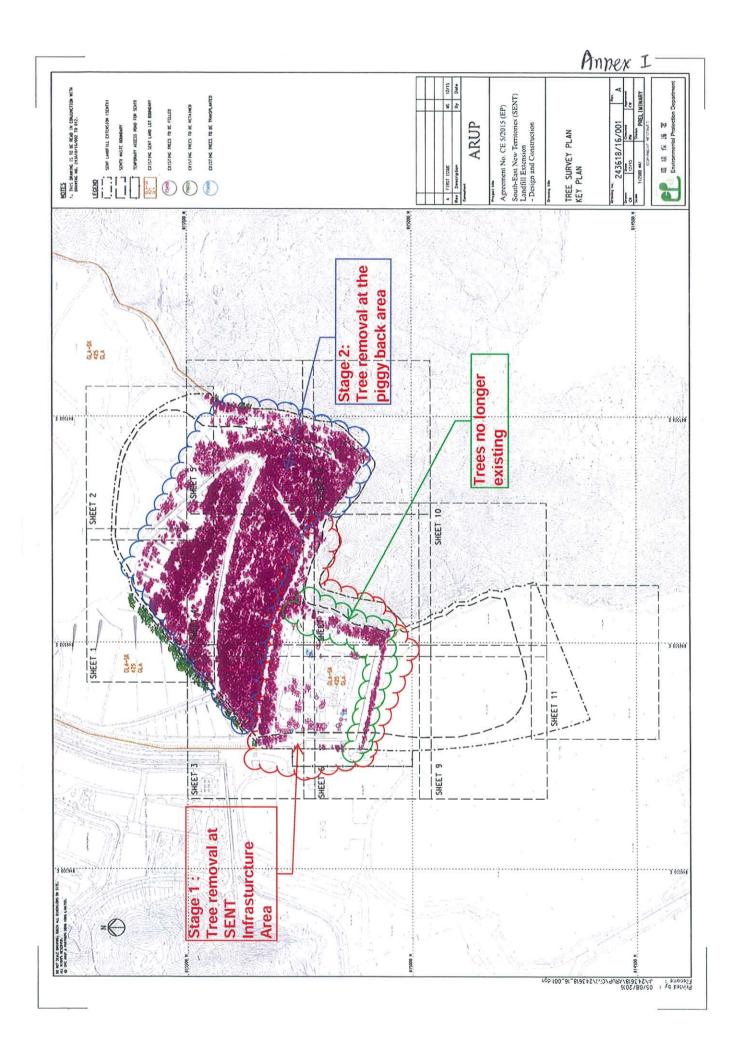


Page FIVE Our Ref: JC/CL/61236/19/tt

Enc.

CC: Vincent Woo – EPD (1 copy & by email) KT Wong / Charles Leung – EPD (by email only) Helen Cochrane / John Steaton – MIEL (2 copies & by email) Polly Mok – ARUP (by email only) Frank Wan – ERM (1 copy) JC, EZ, CL, FL, RC, VC - GVL







30 May 2019 Our Ref: JC/EZ/CL/61253/19/tt

Meinhardt Infrastructure and Environment Limited 10/F Genesis 33-35 Wong Chuk Hang Road Hong Kong

Attn: Ms. Helen Cochrane

Dear Sirs,

Contract No EP/SP/10/91 South-East New Territories (SENT) Landfill Extension Revised Risk Assessments for Tree Felling and Operation of the Wood Chipper

With reference to our previous submission (ref: JC/EZ/CL/SC/60996/19/tt) dated 23 April 2019, please find the attached risk assessments endorsed/signed by our safety officer for your record and information.

Should you have any questions, please do not hesitate to contact our Mr. Sam Chan at 2706 8810.

Yours faithfully For an on behalf of **GREEN VALLEY LANDFILL LIMITED** 

Gary Barnicott General Manager

Encl.

CC: Vincent Woo – EPD (1 copy & email) KT Wong / Charles Leung – EPD (by email only) John Steaton – MIEL (1 copy) Cliff Ko - Arup (1 copy & email) JC, EZ, FL, CL, SC – GVL



	GVL ENGINEERING DEPARTMENT	EPARTMENT	RISK ASSESSMENT (RA)	NT (RA)		
Re	Ref: RA-OWC Rev: Apr-19 $51 \text{ kc}$	Prepared by: SCC HON Activity:	Operation of Wood Chipper	/ood Chipper		
No.	RISK RANKING TABLE	and the second s	RISK = PROBABILITY × CONSEQUENCE	NCE		
				CONSEQUENCE		
	Probability	PROBABILITY	People		Environment	
	Consequence A B C D	E A Common or repeating occurrence	1 Fatality / permanent disability	1 Long term damage		
	1 11 2 4 7	11 B Known to occur or has happened	2 Serious Lost Time Injury or illness	2 Soil/water/air adverse affects in long term	ffects in long term	
	2 3 5 8 12	16 C Can occur, heard of it happening	3 Moderate Lost Time Injury or illness	3 Soil/water/air adverse affects in short term	ffects in short term	
	6 9 13			4 Could effect the environment	ment	
	4         10         14         18         21           5         15         19         22         24	23 E Practically impossible	5 No lost time	5 No environment affects		
	Hazardous materials proposed for use during the activity:	uring the activity:	Personal Protective Equipment required for the Activity:	Activity:		
			Helmet, Safety shoes, Reflective vest, Goggle, Mask, Gloves	ik, Gloves		
	Static Plant and Equipment		Mobile Plant and Equipment			
			Grab truck, Wood Chipper, Telehandler, Hand tools, Reciprocate saws, Chainsaw and Winch	s, Reciprocate saws, Chainsaw	and Winch	
No.	o. WORK SEQUENCE	POTENTIAL HAZARDS	PREVENTIVE MEASURES	ASURES	RISK SCORE BEFORE CONTROL MEASURE	RISK SCORE AFTER CONTROL MEASURE
		Heat stroke	Pay attention to weather warning. Drink plenty of water during hot days and report to your supervisor if feeling unwell.	hk plenty of water during hot eling unwell.	13	23
-	פעונגנמ	Irritation / Injury caused by mosquito and fire ants	Workers will use appropriate PPE and repellent; report to supervisors if feeling unwell	epellent; report to	14	23
2	Weather Condition	Workers getting struck by thunder (in thunder storm) when working on the Personnel must never in contact with metallic structures during a site and operating wood chipper thunder storm (e.g. metal scaffolding, light pole and wood chipper	working on the Personnel must never in contact with metallic structures during a thunder storm (e.g. metal scaffolding, light pole and wood chipper)	retallic structures during a ight pole and wood chipper)	90	24
		Injury cause by reciprocate saw / hacksaw (handsaw)	Ensure correct holding gesture is used; <b>never</b> place the blade on top of hands and preliminary training of using such tool is required	<b>never</b> place the blade on f using such tool is required	6	21
ñ	Cutting trees / branches		Only cumanifere and anaroual narconnal (under cumanifere) zon	al lunder cunervicion) can		

12

Only supervisors and approved personnel (under supervision) can use chainsaw to cut down trees / overgrown weed when necessary; tools will be inspected before use

Injury cause by chainsaw

	GVL ENGINEERING I	DEPARTMENT		RISK ASSESSMENT (RA)	RA)		
Ret	Ref: RA-OWC Rev: Apr-19	Prepared by: SC X Activity:		Operation of Wood Chipper	d Chipper		
	RISK RANKING TABLE		8	RISK = PROBABILITY × CONSEQUENCE			
				CONSE	CONSEQUENCE		
	Probability	L KOBABILI I		People		Environment	
	Consequence A B C D	< m (			<ol> <li>Long term damage</li> <li>Soil/water/air adverse affects in long term</li> </ol>	ffects in long term	
	6 9 13 10 14 18 11 10 14		<ul> <li>Model access time injury or illness</li> <li>No lost time</li> </ul>	6	<ul> <li>5 No environment affects</li> </ul>	ment	
	5 19 22 24	22					
	Hazardous materials proposed for use during the activity:	during the activity:	Personal Protec	Personal Protective Equipment required for the Activity:			
			Helmet, Safety s	Helmet, Safety shoes, Reflective vest, Goggle, Mask, Gloves	sa		
	Static Plant and Equipment		Mobile Plant and Equipment Grah truck Wood Chinner Tel	Mobile Plant and Equipment Grah truck - Wood Chimeer Telehandler Hand tools Recinerate sows. Chainsow and Winch	procepte sams Chainsaw	and Minch	
			DIAD LINCK, WOO	ום כוווףףכו, וכוכוומושכו, וומוום נטטוא, אכנוף	ILOCALE SUMS, CITUTISUM		
No.	WORK SEQUENCE	POTENTIAL HAZARDS		PREVENTIVE MEASURES	s	RISK SCORE BEFORE CONTROL MEASURE	RISK SCORE AFTER CONTROL MEASURE
4	Manual handling	Straining while pulling felled trees to stockpile area for further handling		Some trees are very heavy to be handled by a personnel or two. In such occasion, trees can be chopped into smaller pieces / request more personnel to provide assistance and transfer them from one place to another	personnel or two. In ler pieces / request isfer them from one	13	21
		Workers get scratched by sharp / protruding objects (e.g. tree branches, rocks on the slope etc.)	1000	Always wear protective gloves and other associated PPEs; pay attention to ground for any sharp objects	ciated PPEs, pay	10	23
'n	Using grab truck to remove yard waste	Workers can be hit by the extendable arm of the grab truck when in operation		Every personnel will clear from the grab truck lifting zone while in operation; grab truck and the driver will be checked for relevant certificates (lifting; machine will be inspected before use	lifting zone while in ecked for relevant before use	77	21
		Workers straining (and cause muscular injury) when loading the logs into the wood chipper		If the logs are heavy, multiple workers will need to involve in the process, assistance from mechanical devices such as grab trucks, winch and forklift can also be used	ed to involve in the uch as grab trucks,	13	24

24

12

Ensure workers will use appropriate PPE to protect themselves against sharp objects

Workers getting scratched by the logs and branches when feeding them into the chipper

Loading materials into wood chipper

9

	GVL ENGINEERING DEPARTMEN	DEPARTMENT			RISK ASSESSMENT (RA)	T (RA)		
<u> </u>	Ref: RA-OWC Rev: Apr-19	Prepared by: SC	Activity:		Operation of Wood Chipper	od Chipper		
1	RISK RANKING TABLE				RISK = PROBABILITY × CONSEQUENCE	ļ		
					0	CONSEQUENCE		
_	Probability		PROBABILITY		People		Environment	
	Consequence         A         B         C         D           1         1         2         4         7           2         2         2         3         12           3         6         9         13         17           4         10         14         18         21           4         10         21         21         23           5         15         19         22         24	E A Coi 11 B Kind 16 C Car 20 D No 23 E Pra	Common or repeating occurrence Known to occur or has happened Can occur, heard of it happening Not likely to occur Practically impossible	1 Fatality / per 2 Serious Lost 3 Moderate Lo 4 Minor Lost T 5 No lost time	Fatality / permanent disability Serious Lost Time Injury or illness Moderate Lost Time Injury or illness Minor Lost Time Injury or illness No lost time	<ol> <li>Long term damage</li> <li>Soil/water/air adverse affects in long term</li> <li>Soil/water/air adverse affects in short term</li> <li>Could effect the environment</li> <li>No environment affects</li> </ol>	affects in long term siffects in short term iment	
	Hazardous materials proposed for use during the activity:	during the activity:		Personal Pr	Personal Protective Equipment required for the Activity:	iivity:		
				Helmet, Saf	Helmet, Safety shoes, Reflective vest, Goggle, Mask, Gloves	Gloves		
	Static Plant and Equipment			Mobile Plau Grab truck,	Mobile Plant and Equipment Grab truck, Wood Chipper, Telehandler, Hand tools, Reciprocate sows, Chainsaw and Winch	Reciprocate saws, Chainsaw	and Winch	
ž	No. WORK SEQUENCE		POTENTIAL HAZARDS		PREVENTIVE MEASURES	URES	RISK SCORE BEFORE CONTROL	RISK SCORE AFTER CONTROL
							MEASURE	MEASURE
P	7 Operating the Wood Chipper	Personnel get pulled- severe injury	Personnel get pulled-in into the chipper by the bough of the tree and cause severe injury		The wood chipper has a safety 'push bar' and it will stop the machine when it is pressed. Additionally, another worker who handles the control panel and remote control can immediate stop the device; use of 'extension' methods to feed logs (e.g. using rods to feed materials)	and it will stop the another worker who trol can immediate stop 'eed logs (e.g. using rods	4	18
		Unauthorised person of properties	Unauthorised personnel operate the Wood Chipper and cause injury / loss of properties		Only well trained personnel (with certificates from the manufacturer) can operate the machine	ites from the	4	18
~	8 Discharging the chipped wood	Member of staff hit t	Member of staff hit by the wood chips from the discharge port		An exclusion zone of 6m x 8m will be allocated, no personnel are allow to enter it during the operation	ated, no personnel are	13	22

6

All workers will stay clear from the lifting zone to avoid injury

Workers can be hit by the extendable arm of the grab truck while handling the material

Inhaling of dust and cause respirator diseases

Operating the wood chipper

6

Removal of chipped material

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Member of staff who involve in the wood chipper operation will need to wear N95 masks

	GVL ENGINEERING DEPARTMENT	DEPARTMENT		RISK ASSESSMENT (RA)	T (RA)		
Ref	Ref: RA-OWC Rev: Apr-19	Prepared by: Sc K Activity:		Operation of Wood Chipper	ood Chipper		
10	RISK RANKING TABLE			RISK = PROBABILITY × CONSEQUENCE	3		
				Ŭ	CONSEQUENCE		
_	Probability			People		Environment	
	Consequence A B C D	A 1		Fatality / permanent disability	1 Long term damage		
	1 1 2 4 / 2 3 5 8 12	II         B         Known to occur or has happened           16         C         Can occur, heard of it happening	3 6	serious Lost Time injury or iliness Moderate Lost Time Injury or illness	2 Soil/water/air adverse affects in long term 3 Soil/water/air adverse affects in short term	affects in long term affects in short term	
	3 6 9 13 17	20 D Not likely to occur	4	Minor Lost Time Injury or illness	4 Could effect the environment	nment	
	10 14 15 10	23 E Practically impossible	5 No lost time		5 No environment affects	(2)	
	13 22	22					
	Hazardous materials proposed for use during the activity:	luring the activity:	Personal Pr	Personal Protective Equipment required for the Activity:	tivity:		
			Helmet, Saf,	Helmet, Safety shoes, Reflective vest, Goggle, Mask, Gloves	Gloves		
	Static Plant and Equipment		Mobile Plar	Mobile Plant and Equipment			
			Grab truck,	Grab truck, Wood Chipper, Telehandler, Hand tools, Reciprocate saws, Chainsaw and Winch	Reciprocate saws, Chainsaw	, and Winch	
No.	WORK SEQUENCE	POTENTIAL HAZARDS	tos	PREVENTIVE MEASURES	sures	RISK SCORE BEFORE CONTROL MEASURE	RISK SCORE AFTER CONTROL MEASURE

Topple of Wood Chipper	CONTROL MEASURE	23	21
WORK SEQUENCE     POTENTIAL HAZARDS       York     POTENTIAL HAZARDS       York     When the winch is used for feeding wood to the chipper, if the wood log is excessive heavy (beyond the capacity of the winch), the machine can topple and cause damage and injury.	BEFORE CONTROL MEASURE	×	9
Topple of Wood Chipper	PREVENTIVE MEASURES	Winch will only be used for feeding logs when individual of them is less than 500kg as certified; personnel could also use external devices (e.g. excavator with grippe attachment) for loading wood logs. Additional support can also be placed for the wood chipper on both sides	Ensure the outriggers of the grab truck are extended during operation
	POTENTIAL HAZARDS	When the winch is used for feeding wood to the chipper, if the wood log is excessive heavy (beyond the capacity of the winch), the machine can topple and cause damage and injury.	Grab truck could overturn when lifting heavy logs
	WORK SEQUENCE	Topple of Wood Chipper	Overturning of Grab Truck
ž A	No.	11	12

Approved: Raymond Yau (Senior Safety Officer)

her Signature:

	GVL ENGINEERING DEPARTMENT	DEPARTMENT	RISK ASSESSMENT (RA)	T (RA)		
Re	Ref: RA-TR Rev: Apr-19	Prepared by: SC Activity:	Tree Removal	noval		
	RISK RANKING TABLE		RISK = PROBABILITY x CONSEQUENCE	щ		
	,	PROBABILITY		CONSEQUENCE	Facilitation	
	ence A B C C S S S S S S S S S S S S S S S S S	Common or repeating occurrence Known to occur or has happened Can occur, heard of it happening	1 Fatality / permanent disability 2 Serious Lost Time Injury or illness 3 Moderate Lost Time Injury or illness	<ol> <li>Long term damage</li> <li>Soil/water/air adverse affects in short term</li> <li>Soil/water/air adverse affects in short term</li> </ol>	affects in long term affects in short term	
	3         b         9         13         1/           4         10         14         18         21           5         15         19         22         24	U Not likely to occur E Practically impossible	<ul> <li>Minior Loss Lime injury or liness</li> <li>No lost time</li> </ul>	<ol> <li>4 Louid effect the environment</li> <li>5 No environment affects</li> </ol>	s	
	Hazardous materials proposed for use during the activity:	during the activity:	Personal Protective Equipment required for the Activity:	tivity:		
			Helmet, Safety shoes, Reflective vest, Goggle, Mask, Gloves	Gloves		
	Static Plant and Equipment		Mobile Plant and Equipment Grab truck, Wood Chipper, Telehandler, Hand tools, Reciprocate saws and Chainsaw	Reciprocate saws and Chain	MDS	
No.	WORK SEQUENCE	POTENTIAL HAZARDS	PREVENTIVE MEASURES	URES	RISK SCORE BEFORE CONTROL MEASURE	RISK SCORE AFTER CONTROL MEASURE
		Heat stroke	Pay attention to weather warning. Drink plenty of water during hot days and report to the supervisor if feeling unwell.	plenty of water during hot g unwell.	13	23
-	General	Danger from Mosquitoes and red ants	Apply insect repellent to your exposed skin and avoid ant hill. Notify supervisor for the application of biokill to terminate the ants	n and avoid ant hill. Notify terminate the ants	14	22
		Slipped on slope and cause injury in rain	If the weather condition is inclement (e.g. heavy/pouring rain), it is advised not to work on slopes.	heavy/pouring rain), it is	14	23
7	Weather Condition	Workers getting struck by thunder (in thunder storm) when working on the site and operating wood chipper	Personnel must never in contact with metallic structures during a thunder storm signal is in effect (e.g. metal scaffolding, light pole and wood chipper)	allic structures during a al scaffolding, light pole	8	24
		Injury cause by reciprocate saw / hacksaw (handsaw)	Ensure correct holding gesture is used; <b>never</b> place the blade on top of hands and preliminary training of using such tool is required	ever place the blade on sing such tool is required	6	21
â	Cutting down unwanted trees / weed	Injury cause by chainsaw	Only supervisors and approved personnel (under supervision) can use chainsaw to cut down trees / overgrown weed when necessary; tools will be inspected before use	(under supervision) can wn weed when necessary;	12	77
		Workers hit by falling trees	When cutting down trees, notify the personnel in the proximity and ensure the falling path of the trees has nobody in the way	onnel in the proximity and body in the way	13	24

23

14

Workers will use appropriate PPE for protection against sharp objects

Workers scratched by protrusion of the trees/branches

L							
	GVL ENGINEERING DEPARTMENT	DEPARTMENT		RISK ASSESSMENT (RA)	- (RA)		
Re	Ref: RA-TR Rev: Apr-19	Prepared by: SC 22		Tree Removal	oval		
1	RISK RANKING TABLE		RISK	RISK = PROBABILITY × CONSEQUENCE			
				CON	CONSEQUENCE		
_	Probability		đ	People		Environment	
	Consequence         A         B         C         D           1         1         2         6         7         7           2         3         6         9         13         17           4         10         14         18         21         7           5         15         19         22         24	E     A     Common or repeating occurrence       11     B     Known to occur or has happened       16     C     Can occur, heard of it happening       20     D     Not likely to occur       23     E     Practically impossible	1       Fatality / permanent disability         2       Serious Lost Time Injury or illness         3       Moderate Lost Time Injury or illness         4       Minor Lost Time Injury or illness         5       No lost time	lisability ry or illness njury or illness r/ or illness	<ol> <li>Long term damage</li> <li>Soil/water/air adverse affects in long term</li> <li>Soil/water/air adverse affects in short term</li> <li>Could effect the environment</li> <li>No environment affects</li> </ol>	iffects in long term iffects in short term iment	
	Hazardous materials proposed for use during the activity:	during the activity:	Personal Protective Helmet, Safety shoe	Personal Protective Equipment required for the Activity: Helmet, Safety shoes, Reflective vest, Gaggle, Mask, Gloves	<b>vity:</b> ioves		
	Static Plant and Equipment		Mobile Plant and Equipment Grab truck, Wood Chipper, Tei	Mobile Plant and Equipment Grab truck, Wood Chipper, Telehandler, Hand tools, Reciprocate saws and Chainsaw	eciprocate saws and Chains	Saw	
	-		-				
No.	o. WORK SEQUENCE	POTENTIAL HAZARDS		PREVENTIVE MEASURES	IRES	RISK SCORE BEFORE CONTROL MEASURE	RISK SCORE AFTER CONTROL MEASURE
4	Manual handling	Straining while pulling felled trees to designated area for further handling		Some trees are very heavy to be handled by a personnel or two. In such occasion, trees can be chopped into smaller pieces / request more personnel to provide assistance and transfer them from one place to another under supervision	ı a personnel or two. In naller pieces / request ransfer them from one	13	21
		Workers get injured by sharp / protruding objects (e.g. tree branches, rocks Always wear protective gloves and other associated PPEs; pay on the slope etc.) when stockpiling the materials	e branches, rocks Always w attention	Always wear protective gloves and other as attention to ground for any sharp objects	ssociated PPEs; pay	10	23

Approved by: Raymond Yau (Senior Safety Officer) 2 Signature:

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21

12

Every personnel will clear from the grab truck lifting zone while in operation; grab truck and the driver will be checked for relevant

certificates (lifting)

5 Using grab truck to remove yard waste Workers can be hit by the extendable arm of the grab truck when in operation

Page 2 of 2



翠谷工程有限公司 Green Valley Landfill, Limited

27 July 2019 Our Ref: JC/CL/RC/61617/19/tt

Meinhardt Infrastructure and Environment Limited 10/F Genesis 33-35 Wong Chuk Hang Road Hong Kong

Attn: Ms. Helen Cochrane

Dear Sirs,

Contract No EP/SP/10/91 South-East New Territories (SENT) Landfill Extension **Tree Felling Schedule at SENT Infrastructure Area** 

In order to facilitate the construction of SENTX and remove unsafe trees identified in the report produced by ERM. GVL would like to start Stage 1 of tree felling procedure at the infrastructure area in the coming week as advised in our letter dated 28 May 2019 (our ref: JC/CL/61236/19/tt), please see the attached plans.

Please note the priority of tree removal will be given to the high-risk trees and the remaining will be felled in stages around the infrastructure area.

The felled trees will be handled and shredded by using the wood chipper located in GVL.

Should you have any questions, please do not hesitate to contact our Mr. Sam Chan at 2706 8810.

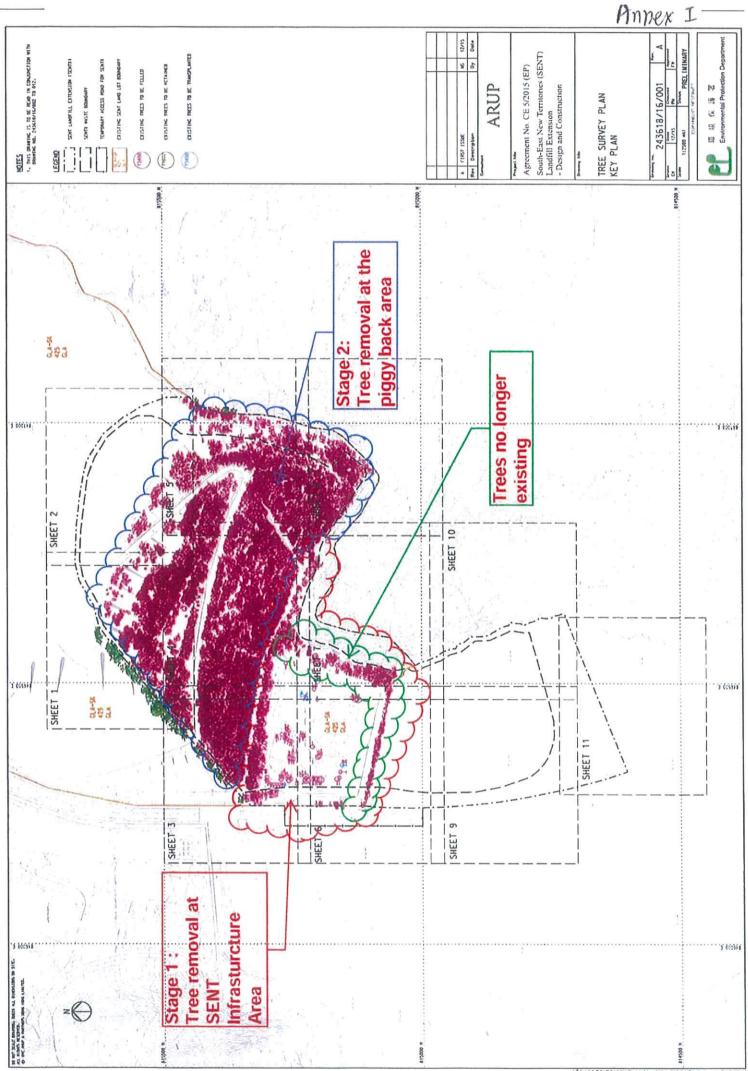
Yours faithfully For and on behalf of **GREEN VALLEY LANDFILL LIMITED** 

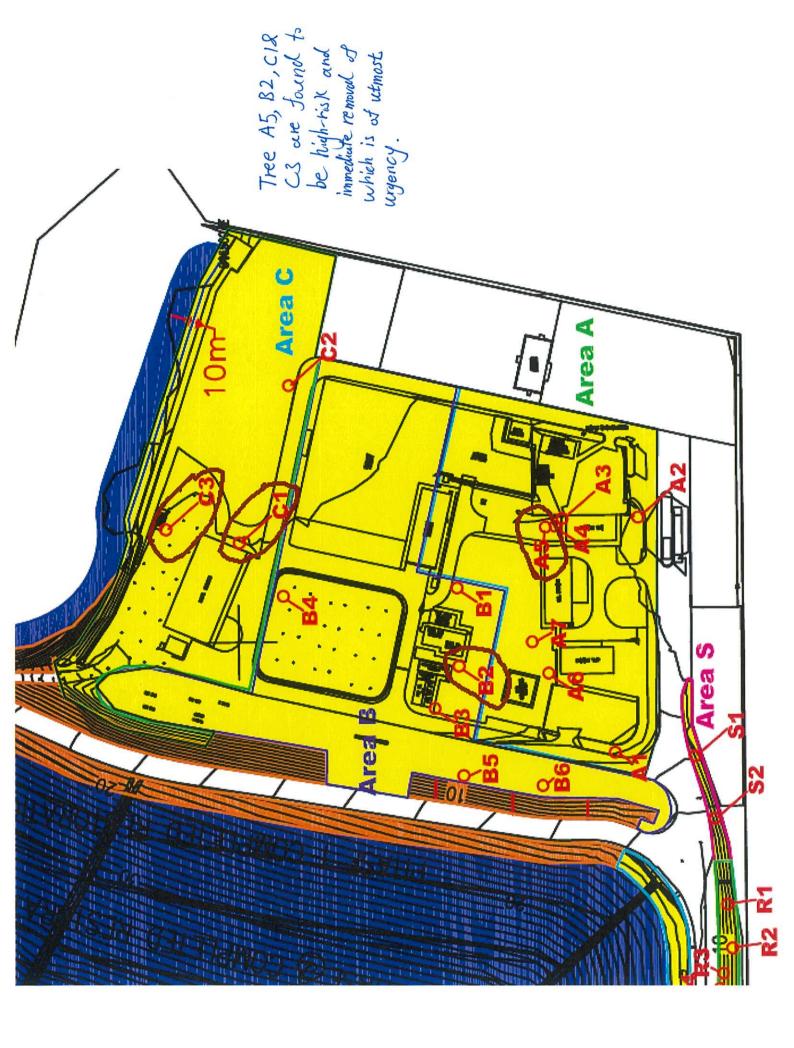
Gary Barnicott General Manager

Encl.

CC: Vincent Woo – EPD (1 copy) John Steaton – MIEL (1 copy) Cliff Ko - Arup (1 copy) Frank Wan – ERM (1 copy) JC, EZ, CL, SC –GVL









A5\_\_WholeView



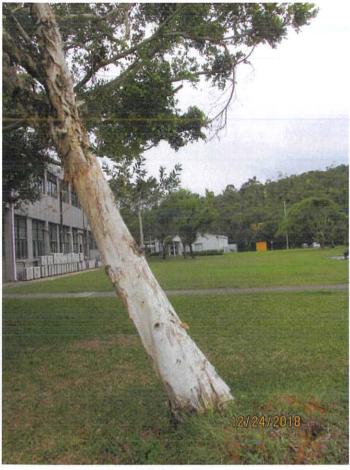
A5\_Root-PlateMovement (1)



A5\_Root-PlateMovement (2)



A5\_Root-PlateMovement\_CloseUp



A5\_Leaning



A5\_CrossBranchesWithNearbyTree



A5\_CrossBranchesWithNearbyTree\_CloseUp



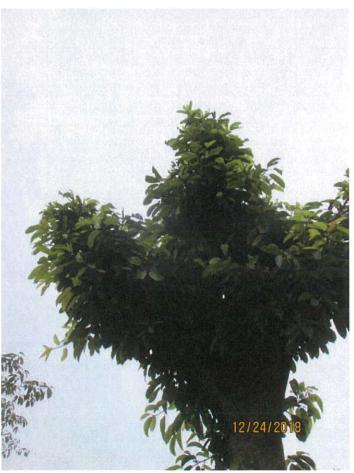
A5\_CrownCondition\_CodominantBranches



B2\_WholeView



B2\_BrokenMainBranches



B2\_BrokenMainBranches\_CloseUp



B2\_Epicormics



B2\_ExposedRoot

B2\_TrunkCondition



C1\_\_WholeView



C1\_Root-PlateMovement



C1\_Root-PlateMovement\_CloseUp



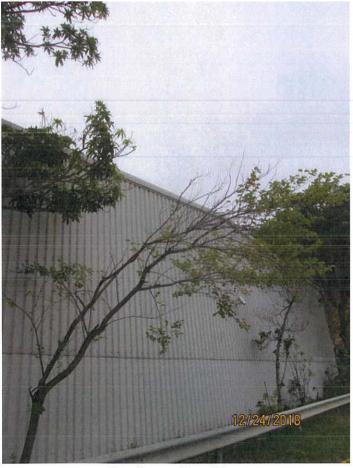
C1\_SoilCrack



C1\_TrunkCondition



C1\_TrunkWound



C1\_CrownCondition





C3\_RootCondition



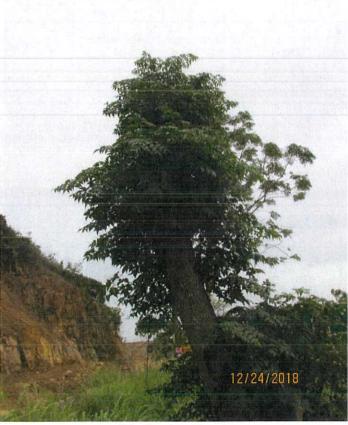
C3\_Root-PlateMovement



C3\_Root-PlateMovement\_CloseUp



C3\_TrunkCondition





C3\_Topped

C3\_BrokenTrunk