

# **Expansion of Hong Kong International Airport into a Three-Runway System**

Construction Phase Annual EM&A Report No.8

July 2024

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# **Expansion of Hong Kong International Airport into a Three-Runway System**

Construction Phase Annual EM&A Report No.8

July 2024

# This Construction Phase Annual EM&A Report No. 8 has been reviewed and certified by

#### the Environmental Team Leader (ETL) in accordance with

#### Section 15.5 of the Updated EM&A Manual

Certified by:

Terence Kong

Environmental Team Leader (ETL) Mott MacDonald Hong Kong Limited

Date: 15 July 2024



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#### By Email

Airport Authority Hong Kong HKIA Tower, 1 Sky Plaza Road Hong Kong International Airport Lantau, Hong Kong

Attn: Mr. Lawrence Tsui, Principal Manager, Environmental Compliance

16 July 2024

Dear Sir,

Contract No. 3102 3RS Independent Environmental Checker Consultancy Services

#### Submission of Construction Phase Annual EM&A Report No.8

Reference is made to the Environmental Team's submission of the Construction Phase Annual EM&A Report No.8 under Condition 15.5 of the Updated EM&A Manual certified by the ET Leader on 15 July 2024.

We would like to inform you that we have no adverse comment on the captioned submission. Therefore, we write to verify the captioned submission in accordance with the requirement stipulated in Condition 2.3 of EP-489/2014.

Should you have any query, please feel free to contact the undersigned at 37290380.

Yours faithfully, AECOM Asia Co. Ltd.

Roy Man

Independent Environmental Checker

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# **Abbreviations**

Three-Runway System Airport Authority Hong Kong		
AECOM Asia Company Limited		
Architectural, Builder's Work and Finishing Works		
Advisory Council on the Environment		
Agriculture, Fisheries and Conservation Department		
Automatic Information System		
Encounter Rate of Number of Dolphins		
Automated People Mover		
Airport West		
Baggage Handling System		
Control		
Contamination Assessment Plan		
Contamination Assessment Report		
Conventional Distance Sampling		
Community Liaison Groups		
Coronavirus Disease		
Coral Translocation Plan		
Chinese White Dolphin		
Coefficient of Variation		
Deep Cement Mixing		
Dolphin Exclusion Zone		
Dissolved Oxygen		
Detection Positive Days		
Detection Positive Minutes		
Number of Dolphins per 100 Units of Survey Effort		
Ecological Acoustic Recorder		
Environmental Impact Assessment		
Environmental Monitoring & Audit		
Environmental Permit		
Environmental Protection Department		
Eastern Vehicular Tunnel		
Environmental Team		
Fish Culture Zone		
Horizontal Directional Drilling		
Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary		
Crossing Facilities		
Hong Kong International Airport		
The Hong Kong Laboratory Accreditation Scheme		
High Speed Ferry		
Hong-Kong-Zhuhai-Macao Bridge		
Interim Two Runway System		
Independent Environmental Checker		
Impact Station		
Lung Kwu Chau		
Multiple Covariate Distance Sampling		
Marine Traffic Control Centre		
Mott MacDonald Hong Kong Limited		
Marine Mammal Watching Plan		
Maritime Surveillance System		

MTRMP-CAV	Marine Travel Routes and Management Plan for		
I WITKINF-CAV	Construction and Associated Vessel		
NEL	Northeast Lantau		
NWL	Northwest Lantau		
PAM	Passive Acoustic Monitoring		
PM	Partial Mortality		
PVD	Prefabricated Vertical Drain		
RBRGs	Risk Based Remediation Goals		
SC	Sha Chau		
SCLKCMP	Sha Chau and Lung Kwu Chau Marine Park		
SCZ	Speed Control Zone		
SPSE	Number of On-effort Sightings per 100 Units of Survey Effort		
SPS-1	Sewage Pumping Station 1		
SR Sensitive Receiver			
SS	Suspended Solids		
STG Encounter Rate of Number of Dolphin Sightings			
SWL Southwest Lantau			
The Project	The Expansion of Hong Kong International Airport into a		
	Three-Runway System		
The SkyPier Plan	Marine Travel Routes and Management Plan for High		
	Speed Ferries of SkyPier		
T2	Terminal 2		
T2C	Terminal 2 Concourse		
TCLP Toxicity Characteristics Leaching Procedure			
TCSPS Tung Chung Sewage Pumping Station			
TSP	Total Suspended Particulates		
UCS Unconfined Compressive Strength			
WL West Lantau			
WMP	Waste Management Plan		
WVT	Western Vehicular Tunnel		

# **Executive summary**

The "Expansion of Hong Kong International Airport into a Three-Runway System" (the Project) serves to meet the future air traffic demands at Hong Kong International Airport (HKIA). On 7 November 2014, the Environmental Impact Assessment (EIA) Report (Register No.: AEIAR-185/2014) for the Project was approved and an Environmental Permit (EP) (Permit No.: EP-489/2014) was issued for the construction and operation of the Project.

Airport Authority Hong Kong (AAHK) commissioned Mott MacDonald Hong Kong Limited (MMHK) to undertake the role of Environmental Team (ET) for carrying out the Environmental Monitoring & Audit (EM&A) works during the construction phase of the Project in accordance with the Updated EM&A Manual (the Manual).

This is the 8<sup>th</sup> Construction Phase Annual EM&A Report for the Project which summarizes the monitoring results and audit findings of the EM&A programme during the reporting period from 1 January 2023 to 31 December 2023.

During the reporting period, the project is in the Interim Two Runway System (I-2RS) stage, in which the new North Runway and the associated taxiway and facilities were in operation together with the South Runway and existing airport facilities, with the Centre Runway closed down for modification works.

#### **Key Activities in the Reporting Period**

Key activities of the Project carried out in the reporting period were related to the following contracts:

#### **Reclamation Works:**

#### **Contract 3206 Main Reclamation Works**

- Armour rock laying and temporary platform construction; and
- Filling materials delivery & backfilling.

#### **Airfield Works:**

#### **Contract 3302 Eastern Vehicular Tunnel Advance Works**

- Tunnel construction and defect fixing;
- Pipe, stormwater drainage diversion and underground utilities works; and
- Stockpiling and backfilling works.

#### **Contract 3305 Airfield Ground Lighting System**

- Enhanced vehicular warning light hardware installation;
- Rectification work for airfield ground lighting system; and
- Cable containment & power supply system installation.

#### Contract 3306 Observation Facility Control System Supporting Interim 2RS and 3RS

- Equipment installation; and
- Structured cabling.

#### **Contract 3307 Fire Training Facility**

- Architectural, builder's work and finishing works;
- Drainage and utilities works;
- Building construction; and
- Pavement work.

#### **Contract 3308 Foreign Object Debris Detection System**

- Rectification work for handover sensor system;
- Construction of foundation; and
- Tower modification works.

#### **Contract 3310 North Runway Modification Works**

- Architectural, builder's work and finishing works;
- Land-based ground improvement works (Transition layer and backfilling);
- Excavation, lateral support, installation of pipe pile and pilings;
- Seawall, box culvert construction and rock armour laying;
- Construction of vehicular tunnel, walls, slabs and backfilling;
- Jet grouting and pavement works for runway; and
- Aviation fuel pipe and construction of stormwater drainage.

#### **Terminal 2 Concourse and Apron Works:**

#### Contract 3403 New Integrated Airport Centres Building and Civil Works

- Builder's work for cable conduit and architectural, builder's work and finishing works;
- Trench backfilling and demolition of antenna tower;
- Mechanical ventilation, air-conditioning, fire services and electrical works; and
- Roofing installation of covered walkway.

#### **Contract 3404 Integrated Airport Control System**

Cable laying works and system maintenance.

#### Contract 3405 Three Runway Concourse Foundation and Substructure Works

- Bored piling, excavation and structure works;
- Setup of temporary drainage system;
- Marine sediment treatment works; and
- Road formation, tunnel concreting & backfilling.

#### Contract 3408 Third Runway Concourse and Apron Works

- Reinforced concrete, building services and architectural, builder's work and finishing works;
- Excavation, cable laying, utilities and fuel pipe installation;
- Erection works for concrete batching plant; and
- Marine sediment treatment works.

#### **Terminal 2 Expansion:**

#### **Contract 3508 Terminal 2 Expansion Works**

- Excavation and footing construction;
- Viaduct pier and temporary road construction;
- Bridge demolition and hoarding erection;
- Drainage construction and crossroad duct laying;
- Roof, deck, beams and columns construction;
- Pump, electrical stations works; and
- Electrical and mechanical works and architectural, builder's work and finishing works.

#### **Automated People Mover and Baggage Handling System:**

#### Contract 3601 New Automated People Mover System (TRC Line)

Guidebeam installation.

#### **Contract 3602 Existing APM System Modification Works**

Concrete plinth construction and defect rectification works; and

Erection and fixing of power rail.

#### Contract 3603 3RS Baggage Handling System

BHS and steel works installation.

#### **Airport Support Infrastructure:**

#### Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Hoarding, formworks erection and excavation;
- Duct installation, rebar fixing and retaining wall construction;
- Casted walkway structure, concreting, coring works at bulkhead wall and pipe pile trimming;
- Installation of steel decking formworks, backfilling and dismantling;
- Drainage and road base works; and
- Castle cable trench, gas main pipe laying and utilities installation works.

#### Contract 3802 APM and BHS Tunnels and Related Works

- Excavation and lateral supports;
- APM & BHS Tunnel superstructure and box culvert construction;
- Demolition works: and
- Electrical and mechanical works and architectural, builder's work and finishing works.

#### **Contract 3804 East and Landside Fire Stations**

- Site setup formation and ground investigation;
- Bored pile, concreting, excavation, pile cap construction and underground utilities works;
- Interface coring works for complete bored pile;
- · Precast erection; and
- Raft foundation and superstructure.

#### **Contract 3805 New Airport District Police Operational Base**

- Ground Investigation works; and
- Construction of temporary working platform and bored pile.

#### **Construction Support:**

#### **Contract 3721 Construction Support Infrastructure Works**

- Additional and outstanding works of sewage manholes;
- Maintenance of temporary sewage pump and control panel;
- Watermain connection and laying of road works;
- Sewage phasing works for fire training facility; and
- Provision of backup services.

#### Contract 3722 Western Support Area - Construction Support Facilities

Operation of Western Support Area sewage treatment plant.

#### Contract 3723 Eastern Support Area - Construction Support Facilities

Operation of Eastern Support Area sewage treatment plant.

#### **Contract 3901A Concrete Batching Facility**

Operation of concrete batching plant, and material conveyor belt.

#### **Contract 3901B Concrete Batching Facility**

Operation of concrete batching plant and material conveyor belt.

#### **Contract 3908 Quay Management Services**

- Provision of services of site management and logistic control of 3RS quays; and
- Provision of flat top barge and vehicle delivery services between the launching point in Hong Kong and 3RS quays.

#### **Contract 3913 Asphalt Batching Plant**

Operation of asphalt batching plant.

#### **Utilities:**

#### 132kV Cable

- Cable trenching, draw pit opening, cable laying and duct installation;
- · Cold milling and cable duct mandrill test; and
- Backfilling and resurfacing.

#### **EM&A Activities Conducted in the Reporting Period**

The EM&A programme was undertaken in accordance with the Manual. Summary of monitoring activities during this reporting period is presented as below:

Monitoring/ Audit Activities	<b>Number of Sessions</b>
Air Quality Monitoring	378
Noise Monitoring	206
General Impact Water Quality Monitoring	128
Post-construction Phase Water Quality Monitoring	12
Vessel line-transect Surveys for Chinese White Dolphin (CWD) Monitoring	24
Land-based Theodolite Tracking Survey Effort for CWD Monitoring	24

Environmental auditing works, including weekly site inspections of construction works conducted by the ET and bi-weekly site inspections conducted by the Independent Environmental Checker (IEC), audit of SkyPier High Speed Ferries (HSF), audit of construction and associated vessels, and audit of implementation of Marine Mammal Watching Plan (MMWP) and Dolphin Exclusion Zone (DEZ) Plan, were conducted in the reporting period. Based on the information including ET's observations, records of Maritime Surveillance System (MSS), and contractors' site records, it is noted that the environmental pollution control and mitigation measures were properly implemented and the construction activities of the Project in the reporting period did not introduce adverse impact to the environment.

The annual sewage flow monitoring has been started since June 2021 and completed in December 2022. As the purpose of the sewage flow monitoring is to inform the timing of commencement of planning for the sewer upgrading works, and considering that AAHK has initiated to start planning its construction, the annual monitoring was completed in 2022. The daily average flows data can be referred to the previous Annual EM&A Report No.7.

In accordance with Section 6.2.1.2 of the Manual, it was recommended to start routine monitoring of hydrogen sulphide ( $H_2S$ ) levels for the sewerage system of 3RS upon commencement of operation of the project. During the reporting period, the  $H_2S$  monitoring proposal was submitted to EPD in April 2023 and accepted by EPD in June 2023.

#### **Summary Findings of the EM&A Programme**

The monitoring works for construction dust, construction noise, general impact water quality, post-construction phase water quality, construction waste, landscape & visual, and CWD were conducted during the reporting period in accordance with the Manual.

Monitoring results of construction dust, construction noise, construction waste and CWD did not trigger the corresponding Action and Limit Levels in the reporting period. No non-conformity was recorded for landscape & visual monitoring in the reporting period.

The general impact water quality monitoring results for all parameters, except dissolved oxygen (DO) and suspended solid (SS) obtained during the reporting period were within the corresponding Action and Limit Levels stipulated in the EM&A programme. Relevant investigation and follow-up actions were conducted according to the EM&A programme if the corresponding Action and Limit Levels were triggered. For dissolved oxygen (DO) and suspended solids (SS), some of the monitoring results triggered the relevant Action or Limit Levels, and corresponding investigations were conducted accordingly. The investigation findings concluded that all cases were not related to the Project. To conclude, the construction activities in the monitoring period did not introduce adverse impact to all water quality sensitive receivers.

With the completion of land formation works in the first quarter of 2023, termination of the construction phase water quality impact monitoring was proposed to EPD with approval granted on 30 October 2023 and the general impact water quality monitoring was terminated after 31 October 2023. Post-construction phase water quality monitoring exercise was carried from 14 November 2023 to 9 December 2023. The detailed monitoring results and analysis are presented in **Appendix D** and **Section 2.4** respectively.

The construction phase CWD impact monitoring did not stop together with the construction phase water quality impact monitoring. The construction phase CWD monitoring was continued until the end of December 2023 to collect a full-year set of monitoring data to facilitate the evaluation of CWD abundance on an annual basis. This arrangement was agreed upon by Agriculture, Fisheries and Conservation Department (AFCD) and EPD in December 2023. A total of around 5384.9 km survey effort was conducted for the vessel line-transect monitoring for CWDs during the 12-month monitoring period. A total of 160 groups of 542 CWDs were sighted in NWL, AW, WL and SWL survey areas. No CWDs were recorded in the NEL survey area. The combined encounter rates by number of dolphin sightings and by number of dolphins were 3.06 and 10.35 respectively. No triggering of Action and Limit Levels for encounter rates were recorded during the construction phase during 2023. Overall abundance of CWD in Hong Kong western waters was estimated at 40 dolphins in 2023 from line-transect analysis. CWD occurrence from landbased surveys around Lung Kwu Chau was only recorded during winter and summer seasons. Waters off Lung Kwu Chau continue to be habitat used primarily for travelling and foraging. Passive acoustic monitoring provides evidence that dolphins continued using the area around south of Sha Chau in 2023, especially in winter, and then primarily at night. A post-construction phase CWD monitoring includes vessels line-transect survey would be carried out for 12 months. The post-construction phase CWD monitoring would be commenced in January 2024.

#### **Summary Table**

The Key findings of the EM&A programme during the reporting period are summarised as below:

	Yes	No	Details	Analysis / Recommendation / Remedial Actions
Breach of Limit Level^		√	No exceedance of project-related Limit Level was recorded.	Nil
Breach of Action Level <sup>^</sup>		√	No exceedance of project-related Limit Level was record.	Nil.
Complaints Received	<b>√</b>		Twelve complaints were received in 2023: 9 Jun, 4 Oct, 9 Oct, 16 Oct, 20 Oct, 30 Oct, 21 Nov (3 complaints), 27 Nov, 12 Dec & 18 Dec	The complaint investigations were carried out in accordance with the Complaint Management Plan. Details are presented in S3.2.1.
Notification of any summons and status of prosecutions		√	No notification of summons nor prosecution was received.	Nil
Changes that affect the EM&A		√	There was no change to the construction works that may affect the EM&A.	Nil

Remarks: ^ Only triggering of Action or Limit Level found related to Project works is counted as Breach of Action or Limit Level.

In accordance with Condition 2.6 of EP, AAHK assisted AFCD in taking forward the statutory procedures for the designation of the North Lantau Marine Park (NLMP). A gazette notice regarding the approved map was published by the Government on 29 September 2023 with a Draft Designation Order and a relevant Executive Council paper was prepared. The NLMP will come into effect on 1 November 2024 and shall tie in with the commissioning of the 3RS.

### 1 Introduction

#### 1.1 Background

On 7 November 2014, the Environmental Impact Assessment (EIA) Report (Register No.: AEIAR-185/2014) for the "Expansion of Hong Kong International Airport into a Three-Runway System" (the Project) was approved and an Environmental Permit (EP) (Permit No.: EP-489/2014) was issued for the construction and operation of the Project.

Airport Authority Hong Kong (AAHK) commissioned Mott MacDonald Hong Kong Limited (MMHK) to undertake the role of Environmental Team (ET) for carrying out the Environmental Monitoring & Audit (EM&A) works during the construction phase of the Project in accordance with the Manual<sup>1</sup> submitted under EP Condition 3.1. AECOM Asia Company Limited (AECOM) was employed by AAHK as the Independent Environmental Checker (IEC) for the Project.

The Project covers the expansion of the existing airport into a three-runway system (3RS) with key project components comprising land formation of about 650 hectares and all associated facilities and infrastructure including taxiways, aprons, aircraft stands, a passenger concourse, an expanded Terminal 2, all related airside and landside works and associated ancillary and supporting facilities. The existing submarine aviation fuel pipelines and submarine power cables also require diversion as part of the works.

Construction of the Project is to proceed in the general order of diversion of the submarine aviation fuel pipelines, diversion of the submarine power cables, land formation, and construction of infrastructure, followed by construction of superstructures.

The summary of construction works programme can be referred to the corresponding Monthly EM&A Reports. Description of relevant contracts in the reporting period is presented in **Appendix A**.

#### 1.2 Scope of this Report

This is the 8<sup>th</sup> Construction Phase Annual EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 January 2023 to 31 December 2023.

#### 1.3 Project Organization

The Project's organization structure and the contact details of the key personnel are provided in **Appendix B** and **Table 1.1** respectively.

<sup>&</sup>lt;sup>1</sup> The Manual is available on the Project's dedicated website (accessible at: http://env.threerunwaysystem.com/en/index.html).

Party	Position	Name	Telephone
Project Manager's Representative (Airport Authority Hong Kong)	Principal Manager, Environmental Compliance, Sustainability	Lawrence Tsui	2183 2734
Environmental Team (ET)	Environmental Team Leader	Terence Kong	2828 5919
(Mott MacDonald Hong	Deputy Environmental	Heidi Yu	2828 5704
Kong Limited)	Team Leader	Ken Wong	2828 5817
Independent Environmental Checker	Independent Environmental Checker	Roy Man	3729 0380
(IEC) (AECOM Asia Company Limited)	Deputy Independent Environmental Checker	Jackel Law	3856 5312
Reclamation Works:			
Party	Position	Name	Telephone
Contract 3206 Main Reclamation Works	Project Manager	Alan Mong	3763 1352
(ZHEC-CCCC-CDC Joint Venture)	Environmental Officer	Zhang Bin Wang	3763 1451

# **Airfield Works:**

Party	Position	Name	Telephone
Contract 3302 Eastern Vehicular Tunnel	Project Manager	Dickey Yau	5699 4503
Advance Works (China Road and Bridge Corporation)	Environmental Officer	Dennis Ho	5645 0563
Contract 3305 Airfield Ground Lighting System	Project Manager	Allam Al-Turk	2944 9725
(ADB Safegate Hong Kong Limited)	Environmental Officer	Ivan Ting	9222 9490
Contract 3306 Observation Facility	Project Director	Dennis Yam	9551 9920
Control System Supporting Interim 2RS and 3RS	Environmental Officer	Richard Liu	9216 8990
(Chinney Alliance Engineering Limited)			
Contract 3307 Fire Training	Project Manager	Ken Tang	9640 5397
Facility (Paul Y. Construction Company Limited)	Environmental Officer	Ferddy Leung	5585 6746
Contract 3308 Foreign Object Debris Detection System (DAS Aviation Services Group)	Project Manager	Jeffrey Yau	9873 7422
Contract 3310 North Runway Modification Works	Project Manager	Kingsley Chiang	9424 8437
(China State Construction Engineering (Hong Kong) Ltd.)	Environmental Officer	Federick Wong	9842 2703

#### **Terminal 2 Concourse and Apron Works:**

Party	Position	Name	Telephone
Contract 3402 New Integrated Airport Centres Enabling Works	Project Manager	Wyman Lau	6112 9753
(Wing Hing Construction Co., Ltd.)	Health Safety Environmental Manager	Mike Leung	6625 2550
Contract 3403 New Integrated Airport Centres Building and Civil Works	Project Manager	Alice Leung	9220 3162
(Sun Fook Kong Construction Limited)	Environmental Officer	Ray Cheung	9785 1566
Contract 3404 Integrated	Project Manager	Andy Ng	9102 2739
Airport Control System (Shun Hing Systems Integration Co., Ltd.)	Environmental Officer	Michael Lo	6228 3926
Contract 3405 Third Runway Concourse Foundation and Substructure Works	Project Manager	Francis Choi	9423 3469
(China Road and Bridge Corporation – Bachy Soletanche Group Limited – LT Sambo Co., Ltd. Joint Venture)	Environmental Officer	Jacky Lai	9028 8975
Contract 3408	Assistant Project Manager	Qian Zhang	5377 7976
Third Runway Concourse and Apron Works (Beijing Urban Construction Group Company Limited and Chevalier (Construction) Company Limited Joint Venture)	Environmental Officer	Malcolm Leung	7073 7559

#### **Terminal 2 Expansion:**

Party	Position	Name	Telephone
Contract 3508 Terminal 2 Expansion Works (Gammon Engineering & Construction Company Limited)	Project Manager	Richard Ellis	6201 5637
	Environmental Officer	Endy Tse	6228 7768

#### **Automated People Mover and Baggage Handling System:**

Party	Position	Name	Telephone
Contract 3601 New Automated People Mover System (TRC Line)	Project Manager	Hongdan Wei	158 6180 9450
(CRRC Puzhen Bombardier Transportation Systems Limited and CRRC Nanjing Puzhen Co., Ltd. Joint Venture)	Environmental Officer	H Y Yue	9185 8186
Contract 3602 Existing APM System Modification	Project Manager	Xia Bo	6586 4950
Works (Niigata Transys Co., Ltd.)	Environmental Officer	Y M Tong	5316 9801
Contract 3603 3RS Baggage Handling System (VISH Consortium)	Project Manager	K C Ho	9272 9626
	Environmental Officer	Richard Ng	9802 9577

#### **Airport Support Infrastructure:**

Party	Position	Name	Telephone
Contract 3801 APM and BHS Tunnels on Existing Airport Island	Project Manager	Kingsley Chiang	9424 8437
(China State Construction Engineering (Hong Kong) Ltd.)	Environmental Officer	Eunice Kwok	9243 1331
Contract 3802 APM and BHS Tunnels and Related Works	Project Manager	John Adams	6111 6989
(Gammon Engineering & Construction Company Limited)	Environmental Officer	Yan Ng	5345 8555
Contract 3804 East and Landside Fire Stations (Beijing Urban Construction Group Company Limited -	Project Manager	Mr. Zhang Xianda	4661 6818
Beijing Urban Construction International Company Limited - Kin Shing (Leung's) General Contractors Ltd Joint Venture)	Environmental Officer	Ms. Kimberly Wong	5542 1669
Contract 3805 New Airport District Police Operational Base	Project Manager	Cheuk Wing Wai	9339 8321
(Chinney Construction Co., Ltd.)	Environmental Officer	Mike Li	6306 8547

#### **Construction Support:**

Party	Position	Name	Telephone
Contract 3721 Construction Support Infrastructure Works	Site Agent	Thomas Lui	9011 5340
(China State Construction Engineering (Hong Kong) Ltd.)	Environmental Officer	John Mak	6273 8703
Contract 3722 Western Support Area – Construction Support	Deputy Project Director	Philip Kong	9337 8700
Facilities (Tapbo Construction Company Limited and Konwo Modular House Ltd. Joint Venture.)	Environmental Officer	Eddie Suen	6338 8862
Contract 3723 Eastern Support Area – Construction Support	Deputy Project Director	Philip Kong	9337 8700
Facilities (Tapbo Construction Company Limited and Konwo Modular House Ltd. Joint Venture.)	Environmental Officer	Eddie Suen	6338 8862
Contract 3728 Minor Site Works (Shun Yuen Construction Company Limited)	Contract Manager	C K Liu	9194 8739
	Environmental Officer	Dan Leung	6856 5899
Contract 3733 Emergency Repair Service	Project Manager	Michael Kan	9206 0550

Party	Position	Name	Telephone
(Wing Hing Construction Co., Ltd.)	Health Safety Environmental Manager	Mike Leung	6625 2550
Contract 3901A Concrete Batching Facility (K. Wah	Project Manager	Benedict Wong	9553 2806
Concrete Company Limited)	Environmental Officer	C P Fung	9874 2872
Contract 3901B Concrete Batching Facility (Gammon	Project Manager	Gabriel Chan	2435 3260
Construction Limited)	Environmental Officer	Rex Wong	2695 6319
Contract 3908 Quay	Project Manager	Mr. lan Li	9750 6438
Management Services (Gitanes – Crown Asia Joint Venture)	Environmental Officer	Mr. Tang Kai Fun	9406 3526
Contract 3913 Asphalt	Project Manager	Xie Yi Sheng	6580 6005
Batching Plant (SPR Joint Venture)	Environmental Officer	Kenneth Chan	9300 2182

#### **Utilities:**

Party	Position	Name	Telephone
132kV Cable (CLP Power	Engineer	Ken Fung	6391 9087
Hong Kong Limited / Kum Shing (K.F.) Construction Company Limited)	Project Engineer	Ivan Shek	9822 5836

#### 1.4 Contact Information for the Project

The contact information for the Project is provided in **Table 1.2**. The public can contact us through the following channels if they have any queries and comments on the environmental monitoring data and project related information.

**Table 1.2: Contact Information of the Project** 

Channels	Contact Information	
Hotline	3908 0354	
Email	env@3rsproject.com	
Fax	3747 6050	
Postal Address	Airport Authority Hong Kong	
	HKIA Tower	
	1 Sky Plaza Road	
	Hong Kong International Airport	
	Lantau	
	Hong Kong	
	Attn: Environmental Team Leader Mr Terence Kong	
	c/o Mr Lawrence Tsui (TRD)	

#### 1.5 Summary of Construction Works

During the reporting period, the project is in the Interim Two Runway System (I-2RS) stage, in which the new North Runway and the associated taxiway and facilities were operated together with the South Runway and existing airport facilities, with the Centre Runway closed down for modification works.

The key activities of the Project carried out in the reporting period are located in reclamation areas and existing airport island respectively. Works in the reclamation areas included seawall construction, rock armour laying works, filling and land-based ground improvement works,

pavement works, Terminal 2 concourse foundation and superstructure works, tunnel works for Automated People Mover (APM) and Baggage Handling System (BHS) and associated works. Land-based works on existing airport island involved mainly centre runway modification works, Terminal 2 expansion works, modification and tunnel works for APM and BHS systems, and preparation works for utilities, with activities including road and drainage works, cable ducting, demolition, piling, pile cap and excavation works and 132kV cable laying.

The locations of the works areas are presented in Figure 1.1.

#### 1.6 Summary of EM&A Programme Requirements

The status for all environmental aspects is presented in **Table 1.3**.

Table 1.3: Summary of Status for All Environmental Aspects under the Manual

Parameters	EM&A Requirements	Status
Air Quality		
Baseline Monitoring	At least 14 consecutive days before commencement of construction work	The baseline air quality monitoring results were reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	At least 3 times every 6 days	On-going
Noise		
Baseline Monitoring	Daily for a period of at least two weeks prior to the commencement of construction works	The baseline noise monitoring results were reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	Weekly	On-going
Water Quality		
General Baseline Water Quality Monitoring for reclamation, water jetting and field joint works	Three days per week, at mid-flood and mid-ebb tides, for at least four weeks prior to the commencement of marine works.	The baseline water quality monitoring results were reported in Baseline Water Quality Monitoring Report and submitted to EPD under EP Condition 3.4.
General Impact Water Quality Monitoring for reclamation, water jetting and field joint works	Three days per week, at mid-flood and mid-ebb tides.	General impact water quality monitoring for water jetting works was completed on 23 May 2017. The general impact water quality monitoring was terminated after 31 October 2023.
Initial Intensive Deep Cement Mixing (DCM) Water Quality Monitoring	At least four weeks	The Initial Intensive DCM Monitoring Report was submitted and approved by EPD in accordance with the Detailed Plan on DCM.
Regular DCM Water Quality Monitoring	Three times per week until completion of DCM works.	Due to the completion of all marine- based DCM works within April 2022, regular DCM monitoring was ceased at all monitoring stations starting from 28 April 2022.
Post-construction Phase Water Quality Monitoring	Three days per week, at mid-flood and mid-ebb tides for four weeks	The four-week post-construction phase water quality monitoring exercise was commenced on 14 November 2023 and completed on 9 December 2023.
Sewerage and Sewage Treatment		
Methodology for carrying out annual sewage flow monitoring for concerned gravity sewer	Methodology to be prepared and submitted to EPD at least one year before commencement of the operation of 3RS	The proposed methodology of the annual sewage flow monitoring was approved by EPD. The annual flow monitoring was started from June 2021 and completed in December 2022.

Parameters	EM&A Requirements	Status
Details of the routine $H_2S$ monitoring system for the sewerage system of 3RS	Details to be prepared and submitted to EPD at least one year before commencement of the operation of 3RS	The H₂S monitoring proposal was accepted by EPD in June 2023.
Waste Management		
Waste Monitoring	At least weekly	On-going
Land Contamination		
Supplementary Contamination Assessment Plan (CAP)	At least 3 months before commencement of any soil remediation works.	The Supplementary CAP was submitted and approved by EPD pursuant to EP condition 2.20.
Site Re-appraisal Summary Report for Fire Training Facility	Site Re-appraisal Summary Report for Fire Training Facility	Site Re-appraisal Summary Report for Fire Training Facility was submitted and accepted by EPD.
Contamination Assessment Report (CAR)	CAR to be submitted for golf course	The CAR for Golf Course was submitted and accepted by EPD.
	CAR to be submitted for Terminal 2 Emergency Power Supply Systems	The CARs for Terminal 2 Emergency Power Supply Systems were submitted and accepted by EPD.
Terrestrial Ecology		
Pre-construction Egretry Survey Plan	Once per month in the breeding season between April and July, prior to the commencement of HDD drilling works.	The revised Egretry Survey Plan was submitted and approved by EPD under EP Condition 2.14.
Ecological Monitoring	Monthly monitoring during the HDD construction works period from August to March.	The terrestrial ecological monitoring at Sheung Sha Chau was completed in January 2019.
Marine Ecology		
Pre-Construction Phase Coral Dive Survey	Prior to marine construction works	The Coral Translocation Plan was submitted and approved by EPD under EP Condition 2.12.
Coral Translocation	-	The coral translocation was completed on 5 January 2017.
Coral Post-translocation Monitoring	As per an enhanced monitoring programme based on the Coral Translocation Plan	The post-translocation monitoring programme according to the Coral Translocation Plan was completed in April 2018.
Chinese White Dolphins (CWD)		
Baseline Monitoring	6 months of baseline surveys before the commencement of land formation related construction works.  Vessel line transect surveys: Two	Baseline CWD results were reported in the CWD Baseline Monitoring Report and submitted to EPD in accordance with EP Condition 3.4.
	full surveys per month; Land-based theodolite tracking surveys: Two days per month at the Sha Chau station and two days per month at the Lung Kwu Chau station; and Passive Acoustic Monitoring (PAM): For the whole duration of baseline period.	
Impact Monitoring	Vessel line transect surveys: Two full surveys per month; Land-based theodolite tracking surveys: One day per month at the Sha Chau station and one day per month at the Lung Kwu Chau station; and	The construction phase CWD monitoring was completed in December 2023.

Parameters	EM&A Requirements	Status
	PAM: For the whole duration for land formation related construction works.	
Post-construction Phase Monitoring	12 months of post monitoring upon the completion of marine construction works; and Vessel line transect survey: Two	Post-construction phase monitoring would be commenced from January 2024.
	full surveys per month.	
Landscape and Visual		
Landscape and Visual Plan	At least 3 months before the commencement of construction works on the formed land of the Project.	The Landscape & Visual Plan was submitted to EPD under EP Condition 2.18.
Baseline Monitoring	One-off survey within the Project site boundary prior to commencement of any construction works	The baseline landscape & visual monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	Weekly	On-going
Establishment Works Monitoring	Bi-monthly	On-going
Long Term Management (10 years) monitoring	Annually	On-going
Environmental Auditing		
Regular site inspection	Weekly	On-going
Marine Mammal Watching Plan (MMWP) implementation measures	Monitor and check	On-going
Dolphin Exclusion Zone (DEZ) Plan implementation measures	Monitor and check	On-going
SkyPier High Speed Ferries (HSF) implementation measures	Monitor and check	On-going
Construction and Associated Vessels implementation measures	Monitor and check	On-going
Complaint Hotline and Email channel	Construction phase	On-going
Environmental Log-book	Construction phase	On-going
Silt Curtain Deployment Plan implementation measures	Monitor and check	Silt Curtain Deployment Plan was implemented at C7a during this reporting period.
Spill Response Plan implementation measures	Monitor and check	On-going

Taking into account the construction works in the reporting period, impact monitoring of air quality, noise, water quality, waste management, landscape and visual, CWD and post-construction phase water quality monitoring were carried out in the reporting period.

The EM&A programme also involved weekly site inspections and related auditing conducted by the ET for checking the implementation of the required environmental mitigation measures as recommended in the approved EIA Report. To promote the environmental awareness and enhance the environmental performance of the contractors, environmental briefings, environmental trainings, and regular environmental management meetings were conducted during the reporting period which are summarized as below:

- 2 skipper trainings provided by ET;
- 2 environmental briefings on EP and EM&A requirements of the 3RS provided by ET; and
- 202 environmental management meetings for EM&A review with works contracts.

The EM&A programme has been undertaken in accordance with the recommendations presented in the approved EIA Report and the Manual. A summary of implementation status of the

environmental mitigation measures for the construction phase of the Project during the reporting period is provided in **Appendix C**.

# 2 Environmental Monitoring and Auditing

#### 2.1 Air Quality Monitoring

Impact 1-hour Total Suspended Particulates (TSP) monitoring was conducted three times every six days at two representative monitoring stations during the reporting period. The locations of monitoring stations are described in **Table 2.1** and presented in **Figure 2.1**.

#### 2.1.1 Action and Limit Levels

The Action and Limit Levels of the air quality monitoring stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programme are provided in **Table 2.1**.

**Table 2.1: Impact Air Quality Monitoring Stations** 

Monitoring Station	Location	Action Level (μg/m³)	Limit Level (µg/m³)
AR1A	Man Tung Road Park	306	500
AR2	Village House at Tin Sum	298	

#### 2.1.2 Monitoring Results

The graphical plots of impact air quality monitoring results during the reporting period are presented in **Appendix D**. Percentage of monitoring results within their corresponding Action and Limit Levels in the reporting period are presented in **Table 2.2.** 

Table 2.2: Percentage of Air Quality Monitoring Results within Action and Limit Levels

	AR1A	AR2
Jan 2023	100%	100%
Feb 2023	100%	100%
Mar 2023	100%	100%
Apr 2023	100%	100%
May 2023	100%	100%
Jun 2023	100%	100%
Jul 2023	100%	100%
Aug 2023	100%	100%
Sep 2023	100%	100%
Oct 2023	100%	100%
Nov 2023	100%	100%
Dec 2023	100%	100%
Overall	100%	100%

Note:

The percentages are calculated by dividing the number of monitoring results within their corresponding Action and Limit Level by the total number of monitoring results.

All monitoring results at AR1A and AR2 were within their corresponding Action and Limit Levels.

General meteorological conditions throughout the impact monitoring period were recorded and summarized in **Table 2.3**.

Table 2.3: General Meteorological Condition during Impact Air Quality Monitoring

	Weather	Wind Direction
Jan – Mar 2023	Sunny to Cloudy	Northwest or Northeast
Apr – Jun 2023	Sunny to Drizzle	Northwest or Southeast
Jul – Sep 2023	Sunny to Drizzle	Northwest or East
Oct – Dec 2023	Sunny to Cloudy	Northwest or East

#### 2.1.3 Conclusion

No dust emission source was observed at the monitoring stations during the monitoring sessions. As the sensitive receivers were far away from the construction activities, with the implementation of dust control measures, there was no adverse impact at the sensitive receivers attributable to the works of the Project.

#### 2.2 Noise Monitoring

Impact noise monitoring was conducted at four representative monitoring stations once per week during 0700 and 1900 in the reporting period. The locations of monitoring stations are described in **Table 2.4** and presented in **Figure 2.1**.

#### 2.2.1 Action and Limit Levels

The Action and Limit levels of the noise monitoring stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programme are provided in **Table 2.4**.

**Table 2.4: Impact Noise Monitoring Stations** 

<b>Monitoring Station</b>	Location	<b>Action Level</b>	Limit Level
NM1A	Man Tung Road Park	When one documented	75 dB(A)
NM4	Ching Chung Hau Po Woon Primary School	complaint is received from any one of the sensitive receivers	65dB(A) / 70 dB(A) <sup>(i)</sup>
NM5	Village House in Tin Sum	30113itive receivers	75 dB(A)
NM6	House No. 1, Sha Lo Wan		75 dB(A)

Note:

#### 2.2.2 Monitoring Results

The graphical plots of impact noise quality monitoring results during the reporting period are presented in **Appendix D**. Percentage of monitoring results within their corresponding Action and Limit Levels in the reporting period are presented in **Table 2.5**.

Table 2.5: Percentage of Noise Monitoring Results within Action and Limit Levels

	NM1A	NM4	NM5	NM6
Jan 2023	100%	100%	100%	100%
Feb 2023	100%	100%	100%	100%
Mar 2023	100%	100%	100%	100%
Apr 2023	100%	100%	100%	100%
May 2023	100%	100%	100%	100%
Jun 2023	100%	100%	100%	100%
Jul 2023	100%	100%	100%	100%
Aug 2023	100%	100%	100%	100%

<sup>(1)</sup> The Limit Level for NM4 is reduced to 70dB(A) for being an educational institution. During school examination period, the Limit Level is further reduced to 65dB(A).

	NM1A	NM4	NM5	NM6
Sep 2023	100%	100%	100%	100%
Oct 2023	100%	100%	100%	100%
Nov 2023	100%	100%	100%	100%
Dec 2023	100%	100%	100%	100%
Overall	100%	100%	100%	100%

Note: The percentages are calculated by dividing the number of monitoring results within their corresponding Action and Limit Level by the total number of monitoring results.

No complaints were received from any sensitive receiver that triggered the Action Level.

General weather conditions throughout the impact monitoring period were recorded and summarized in **Table 2.6**.

Table 2.6: General Weather Condition during Impact Noise Monitoring

	Weather
Jan – Mar 2023	Sunny to Cloudy
Apr – Jun 2023	Sunny to Drizzle
Jul – Sep 2023	Sunny to Drizzle
Oct – Dec 2023	Sunny to Cloudy

#### 2.2.3 Conclusion

Major sources of noise dominating the monitoring stations observed during the construction noise impact monitoring were road traffic noise near NM1A, school activities at NM4, and aircraft noise near NM6. As the sensitive receivers were far away from the construction activities, with the implementation of noise control measures, there was no adverse impact at the sensitive receivers attributable to the works of the Project.

#### 2.3 Water Quality Monitoring

Impact water quality monitoring of the Project had commenced since 4 August 2016. The monitoring was first conducted three days per week, at mid-ebb and mid-flood tides, at 23 water quality monitoring stations, comprising 12 impact (IM) stations, 8 sensitive receiver (SR) stations, and 3 control (C) stations in the vicinity of the water quality sensitive receivers around the existing airport island in accordance with the Updated EM&A Manual. The purpose of water quality monitoring at the IM stations is to promptly capture any potential water quality impacts from the Project before the impacts could become apparent at sensitive receivers (represented by the SR stations). In view of the progress of 3RS land formation with majority of seawall completion, reduction of IM and SR stations for impact water quality monitoring was proposed to EPD with approval granted on 22 December 2021. The reduction of IM and SR stations was effective from 25 January 2022, in which the remaining IM stations were relocated back to their original locations according to coordinates provided in Table 5.2 of the Updated EM&A Manual, with slight modifications to the location of IM2. After the reduction of monitoring stations, there was a total of 14 water quality monitoring stations, comprising 6 impact (IM) stations, 5 sensitive receiver (SR) stations and 3 control (C) stations. The land formation works including seawall construction and all marine filling works was completed in the first quarter of 2023. However, as a precautionary measure, water quality impact monitoring continued until the end of the rainy season. Subsequently, a proposal for terminating the general impact water quality monitoring during the construction phase was submitted to the EPD and received approval on 30 October 2023. The general water quality impact monitoring was terminated after 31 October 2023 and the postconstruction phase water quality monitoring exercise was then carried out for four weeks afterwards. Table 2.7 describes the details of the monitoring stations during the reporting period and their locations are shown in Figure 2.2a.

Table 2.7: Monitoring Locations and Parameters for General Impact Water Quality Monitoring

Monitoring Stations	<b>Description</b> Coordinates		Parameters	
		Easting	Northing	
C1	Control Station	804247	815620	General Parameters
C2	Control Station	806945	825682	DO, pH, Temperature,
C3 <sup>(2)</sup>	Control Station	817803	822109	<ul> <li>Salinity, Turbidity, SS</li> </ul>
IM1 <sup>(3)</sup>	Impact Station	806458	818351	
IM2 <sup>(3)(4)</sup>	Impact Station	806236	819183	<del></del>
IM7 <sup>(3)</sup>	Impact Station	806835	821349	<del></del>
IM10 <sup>(3)</sup>	Impact Station	809838	822240	
IM11 <sup>(3)</sup>	Impact Station	810545	821501	
IM12 <sup>(3)</sup>	Impact Station	811519	821162	<del></del>
SR1A <sup>(1)</sup>	Hong Kong-Zhuhai- Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) Seawater Intake for cooling	812660	819977	General Parameters DO, pH, Temperature, Salinity, Turbidity, SS
SR2	Planned marine park / hard corals at The Brothers / Tai Mo To	814166	821463	General Parameters DO, pH, Temperature, Salinity, Turbidity, SS
SR3	Sha Chau and Lung Kwu Chau Marine Park / fishing and spawning grounds in North Lantau	807571	822147	General Parameters DO, pH, Temperature, Salinity, Turbidity, SS
SR4A	Sha Lo Wan	807810	817189	<del>_</del>
SR8	Seawater Intake for cooling at Hong Kong International Airport (East)	811623	820390	_

#### Notes:

- (1) With the operation of HKBCF, water quality monitoring at SR1A station was commenced on 25 October 2018. To better reflect the water quality in the immediate vicinity of the intake, the monitoring location of SR1A was shifted closer to the intake starting from 5 January 2019.
- (2) According to the Baseline Water Quality Monitoring Report, C3 station is not adequately representative as a control station of impact/ SR stations during the flood tide. The control reference was changed from C3 to SR2 from 1 September 2016 onwards.
- (3) With the seawall completion and removal of enhanced open sea silt curtains, these monitoring stations were relocated back to their original locations.
- (4) The reduction of IM and SR stations was effective from 25 January 2022, in which the remaining IM stations were relocated back to their original locations according to coordinates provided in Table 5.2 of the Updated EM&A Manual, with slight modifications to the location of IM2. For IM2, there was minor adjustment which was shifted 334m northwards from original location to improve coverage of the remaining marine works after 25 January 2022 to promptly capture any potential water quality impacts from the Project before the impacts could become apparent during the reporting period.

#### 2.3.1 Action and Limit Levels

The Action and Limit Levels for general impact water quality monitoring stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programme are presented in **Table 2.8**. The control and impact stations during flood tide and ebb tide for general impact water quality monitoring are presented in **Table 2.9**. The weather and sea conditions during the reporting period were recorded and are summarized in **Table 2.10**.

Table 2.8: Action and Limit Levels for General Impact Water Quality Monitoring

	Parameters	Action Level (AL)		Limi	it Level (LL)
Action and Limi (excluding SR1/	t Levels for general impact wate A & SR8)	er quality mo	nitoring		
Quality Monitoring	DO in mg/l (Surface, Middle & Bottom)	Surface and Middle 4.5mg/l		Surface an 4.1mg/l	d Middle
		Bottom 3.4mg/l		Bottom 2.7mg/l	
	Suspended Solids (SS) in mg/l	23	or 120% of upstream	37	or 130% of upstream control
	Turbidity in NTU	22.6	control station at the same tide of the same day, whichever is higher	36.1	station at the same tide of the same day, whichever is higher
Action and Limi	t Levels SR1A				
SS (mg/l))		33		42	
Action and Limi	t Levels SR8				
SS (mg/l)		52		60	

Notes:

Table 2.9: The Control and Impact Stations during Flood Tide and Ebb Tide for General Impact Water Quality Monitoring

<b>Control Stations</b>	Impact Stations
Flood Tide	
C1	IM1, IM2, IM7, SR3
SR2 <sup>(1)</sup>	IM7, IM10, IM11, IM12, SR1A, SR3, SR4A, SR8
Ebb Tide	
C1	SR4A
C2	IM1, IM2, IM7, IM10, IM11, IM12, SR1A, SR2, SR3, SR8
Notes:	

<sup>(1)</sup> As per findings of Baseline Water Quality Report, the control reference was changed from C3 to SR2 from 1 September 2016 onwards.

Table 2.10: General Weather Condition and Sea Condition during General Impact Water Quality Monitoring

	Weather	Sea Condition
Jan – Mar 2023	Sunny to Rainy	Calm to Rough
Apr – Jun 2023	Sunny to Rainy	Calm to Rough
Jul – Sep 2023	Sunny to Rainy	Calm to Rough
Oct 2023	Sunny to Rainy	Calm to Rough

#### 2.3.2 Monitoring Results

Percentage of monitoring results within their corresponding Action and Limit Levels in the reporting period are presented in **Table 2.11**. It should be noted that Hong Kong was under the effect of tropical cyclones from 15 to 18, 26 to 28 July, 30 to 31 August, 1 to 2, 4 to 5 September, 4 to 9 October 2023 respectively, and the water quality monitoring results during the said periods might be affected by the inclement weather.

<sup>(1)</sup> For DO measurement, Action or Limit Level is triggered when the monitoring result is lower than the limits.

<sup>(2)</sup> For parameters other than DO, Action or Limit Level of water quality results is triggered when monitoring results is higher than the limits.

<sup>(3)</sup> Depth-averaged results are used unless specified otherwise.

Table 2.11: Percentage of General Impact Water Quality Monitoring Results within Action and Limit Levels

	<b>General Impact Water Quality Monitoring</b>			
	DO (Surface and Middle)	DO (Bottom)	SS	Turbidity
Jan 2023	100.0%	100.0%	100.0%	100%
Feb 2023	100.0%	100.0%	99.6%	100%
Mar 2023	100.0%	100.0%	99.6%	100%
Apr 2023	100.0%	100.0%	100.0%	100%
May 2023	100.0%	100.0%	100.0%	100%
Jun 2023	100.0%	96.8%	100.0%	100%
Jul 2023	99.5%	97.7%	100.0%	100%
Aug 2023	94.5%	97.5%	100.0%	100%
Sep 2023	100.0%	100.0%	100.0%	100%
Oct 2023	100.0%	100.0%	99.6%	100%
Overall	99.4%	99.2%	99.9%	100%

The monitoring results for turbidity obtained in the reporting period were within their corresponding Action and Limit Levels.

For DO and SS, some of the testing results triggered the corresponding Action or Limit Levels in the reporting period. Investigations were conducted accordingly and the details were presented in the corresponding Construction Phase Monthly EM&A Reports. The status of each water quality parameter collected in the reporting period are presented graphically in **Appendix D**. Some of these cases were recorded at monitoring stations located upstream of the Project based on dominant tidal flow and were considered not affected by the Project. Investigations focusing on the cases which occurred at monitoring stations located downstream of the Project were carried out and the details were presented in the corresponding Construction Phase Monthly EM&A Reports. Investigations confirmed that construction works were conducted with proper implementation of mitigation measures during concerned monitoring days. Based on respective investigation findings, cases triggering Action or Limit Level located upstream and downstream were found not related to the Project.

#### 2.3.3 Conclusion

During the reporting period, it was noted that the vast majority of monitoring results (from 99.2% for DO (Bottom), 99.4% for DO (Surface and Middle) and 99.9 % for SS, to 100% for turbidity as presented in **Table 2.11**) were within their corresponding Action and Limit Levels, while only a minor number of results triggered their corresponding Action or Limit Level, and investigations were conducted. Based on the findings of the investigations presented in the Construction Phase Monthly EM&A Reports for 2023, all results that triggered the corresponding Action or Limit Level were not related to the Project. Therefore, the Project did not cause adverse impact at the water quality sensitive receivers. All required actions under the Event and Action Plan were followed. These cases were considered due to natural fluctuation or other sources not related to the Project.

#### 2.4 Post-construction Phase Water Quality Monitoring

A post-construction phase water quality monitoring exercise was carried out for four weeks according to Section 5.1.10.1 of the Updated EM&A Manual, in the same manner as the impact monitoring at all monitoring stations during construction phase, from 14 November 2023 to 9 December 2023.

Post-construction phase water quality monitoring of DO, pH, temperature, salinity, turbidity, suspended solids (SS), total alkalinity, Chromium, and Nickel has been conducted three days per week, at mid-ebb and mid-flood tides, at a total of 23 water quality monitoring stations, comprising 12 impact (IM) stations, 8 sensitive receiver (SR) stations and 3 control (C) stations in the vicinity of water quality sensitive receivers around the airport island in accordance with the Updated EM&A Manual. The details of the monitoring stations are shown in **Table 2.12** and the control and impact stations during ebb tide and flood tide for post-construction phase water quality monitoring are presented in **Table 2.13**. **Figure 2.2b** shows the locations of the monitoring stations for post-construction phase water quality monitoring.

Table 2.12: Monitoring Locations for Post-construction Phase Water Quality Monitoring

<b>Monitoring Stations</b>	Description	Coor	dinates	Parameters	
monitoring otations	Description	Easting	Northing	i didilictors	
C4	Control Station	804247		Canaral Daramatara	
C1			815620	General Parameters DO, pH, Temperature Salinity, Turbidity, SS	
C2	Control Station	806945	825682		
C3 <sup>(2)</sup>	Control Station	817803	822109		
IM1	Impact Station	806458	818351	DCM Parameters	
IM2	Impact Station	806193	818852	Total Alkalinity, Heavy Metals	
IM3	Impact Station	806019	819411	•	
IM4	Impact Station	805039	819570	-	
IM5	Impact Station	804924	820564		
IM6	Impact Station	805828	821060	-	
IM7	Impact Station	806835	821349	-	
IM8	Impact Station	807838	821695		
IM9	Impact Station	808811	822094		
IM10	Impact Station	809838	822240	_	
IM11	Impact Station	810545	821501		
IM12	Impact Station	811519	821162		
SR1A <sup>(1)</sup>	Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) Seawater Intake for cooling	812660	819977	General Parameters DO, pH, Temperature, Salinity, Turbidity, SS	
SR2	Planned marine park / hard corals at The Brothers / Tai Mo To	814166	821463	General Parameters DO, pH, Temperature, Salinity, Turbidity, SS  DCM Parameters Total Alkalinity, Heavy Metals	
SR3	Sha Chau and Lung Kwu Chau Marine Park / fishing and spawning grounds in North Lantau	807571	822147	General Parameters DO, pH, Temperature, Salinity, Turbidity, SS	
SR4A	Sha Lo Wan	807810	817189		
SR5A	San Tau Beach SSSI	810696	816593	•	
SR6 <sup>(3)</sup>	Tai Ho Bay, Near Tai Ho Stream SSSI	814663	817899	•	
SR7	Ma Wan Fish Culture Zone (FCZ)	823742	823636	•	
SR8	Seawater Intake for cooling at Hong Kong International Airport (East)	811623	820390	•	

Notes:

<sup>(1)</sup> With the operation of HKBCF, water quality monitoring at SR1A station was commenced on 25 October 2018. To better reflect the water quality in the immediate vicinity of the intake, the monitoring location of SR1A was shifted closer to the intake starting from 5 January 2019.

- (2) According to the Baseline Water Quality Monitoring Report, C3 station is not adequately representative as a control station of impact/ SR stations during the flood tide. The control reference was changed from C3 to SR2 from 1 September 2016 onwards.
- (3) As the access to SR6 was obstructed by the construction activities and temporary structures for Tung Chung New Town Extension, the monitoring location was relocated to SR6A starting from 8 August 2019. Since construction activities and temporary structures for Tung Chung New Town Extension no longer exist, monitoring location of SR6 was adopted according to the Baseline Water Quality Monitoring Report.

Table 2.13: The Control and Impact Stations during Flood Tide and Ebb Tide for Postconstruction Phase Water Quality Monitoring

Control Stations	Impact Stations
Flood Tide	
C1	IM1, IM2, IM3, IM4, IM5, IM6, IM7, IM8, SR3
SR2 <sup>(1)</sup>	IM7, IM8, IM9, IM10, IM11, IM12, SR1A, SR3, SR4A, SR5A, SR6, SR8
Ebb Tide	
C1	SR4A, SR5A, SR6
C2	IM1, IM2, IM3, IM4, IM5, IM6, IM7, IM8, IM9, IM10, IM11, IM12, SR1A, SR2, SR3, SR7, SR8
d-t-	

Note:

(1) As per findings of Baseline Water Quality Monitoring Report, the control reference has been changed from C3 to SR2 from 1 September 2016 onwards.

#### 2.4.1 Summary of Monitoring Results

Summary of the post-construction phase water quality monitoring results is presented in Part II of **Appendix D**. The water quality monitoring results for the entire monitoring period, i.e., baseline monitoring (from 3 to 14 May, from 19 to 30 July, from 4 to 30 August and from 1 to 29 September 2016); general impact water quality monitoring (from 1 October 2016 to 31 October 2023) and post-construction monitoring (from 14 November to 9 December 2023), are also graphically presented in Part III of **Appendix D**.

The distributions of all monitoring results over the entire water quality monitoring period are illustrated in Graphs D.1 to D.14 in Part IV of **Appendix D.** These graphs are presented in Boxand-Whisker diagrams which show the distribution of monitoring results in terms of their mean, median (Q2), interquartile range (IQR), quartile 1 (Q1), quartile 3 (Q3), minimum (lower bound), maximum (upper bound) and outlier values. The definitions of these descriptors are presented below:

- Mean: Arithmetic average of the data
- Median (Q2): 50<sup>th</sup>-percentile of the data
- Quartile 1(Q1): 25<sup>th</sup>-percentile of the data
- Quartile 3 (Q3): 75<sup>th</sup>-percentile of the data
- Interquartile Range (IQR): Q3 Q1
- Minimum (Lower bound): Q1 1.5 x IQR
- Maximum (Upper bound): Q3 + 1.5 x IQR
- Outliers: Data beyond the upper bound or below the lower bound.

Analysis of each water quality monitoring parameter is provided in subsequent paragraphs.

#### **Dissolved Oxygen:**

According to Graphs D.1 to D.4, the following observations were made for the distribution of DO monitoring results during the entire monitoring period:

- The mean and median values of DO during post-construction phase monitoring are higher than the corresponding values during baseline water quality monitoring.
- The interquartile ranges of DO during post-construction phase were found to be generally higher than the corresponding ranges during baseline water quality monitoring.

 During general impact water quality monitoring, while outliers of low DO values were observed, investigations had been carried out according to the relevant requirements of the Updated EM&A Manual whenever such outliners triggered the Action or Limit Levels, and the investigation findings concluded that such low DO levels were not due to the Project but could be attributed to natural fluctuation/ seasonal variations/ external factors in the vicinity. Details of the investigation findings have been documented in the relevant Construction Phase Monthly EM&A Reports.

Based on the above analysis, it can be concluded that the marine works of the Project during construction phase did not cause deterioration in the DO levels of the marine water surrounding the Project site.

#### **Turbidity:**

According to Graphs D.5 and D.6, for following observations were made for the distribution of turbidity monitoring results during the entire monitoring period:

- The mean and median values of turbidity during post-construction phase monitoring are lower than the corresponding values during baseline water quality monitoring.
- The interquartile ranges of turbidity during post-construction phase were found to be generally lower than the corresponding ranges during baseline water quality monitoring.
- During general impact water quality monitoring, while outliers of high turbidity were observed, investigations had been carried out according to the relevant requirements of the Updated EM&A Manual whenever such outliners triggered the Action or Limit Levels, and the investigation findings concluded that such high turbidity levels were not due to the Project but could be attributed to natural fluctuation/ seasonal variations/ external factors in the vicinity. Details of the investigation findings have been documented in the relevant Construction Phase Monthly EM&A Reports.

Based on the above analysis, it can be concluded that the marine works of the Project during construction phase did not cause deterioration in the turbidity levels of the marine water surrounding the Project site.

#### Suspended Solid (SS):

According to Graphs D.7 and D.8, the following observations were made for the distribution of SS monitoring results during the entire monitoring period:

- The mean and median values of SS during post-construction phase monitoring are lower than the corresponding values during baseline water quality monitoring.
- The interquartile ranges of SS during post-construction phase were found to be generally lower than the corresponding ranges during baseline water quality monitoring.
- During general impact water quality monitoring, while outliers of high SS values were observed, investigations had been carried out according to the relevant requirements of the Updated EM&A Manual whenever such outliners triggered the Action or Limit Levels, and the investigation findings concluded that such high SS levels were not due to the Project but could be attributed to natural fluctuation/ seasonal variations/ external factors in the vicinity. Details of the investigation findings have been documented in the relevant Construction Phase Monthly EM&A Reports.

Based on the above analysis, it can be concluded that the marine works of the Project during construction phase did not cause deterioration in the SS levels of the marine water surrounding the Project site.

#### Alkalinity:

According to Graphs D.9 and D.10, the following observations were made for the distribution of alkalinity monitoring results during the entire monitoring period:

- The mean and median values of alkalinity during post-construction phase monitoring are lower than the corresponding values during baseline water quality monitoring.
- The interquartile ranges of alkalinity during post-construction phase were found to be generally lower than the corresponding ranges during baseline water quality monitoring.
- During general impact water quality monitoring, while outliers of high alkalinity values were observed, no exceedances of the relevant Action or Limit Levels were recorded as documented in all the previous Construction Phase Monthly EM&A Reports.

Based on the above analysis, it can be concluded that the marine works of the Project during construction phase did not cause deterioration in the alkalinity levels of the marine water surrounding the Project site.

#### **Chromium:**

According to Graphs D.11 and D.12, the following observations were made for the distribution of chromium monitoring results during the entire monitoring period:

- The mean and median values of chromium during post-construction phase monitoring are close to the corresponding value during baseline water quality monitoring.
- The interquartile ranges of chromium during post-construction phase were found to be close to the corresponding ranges during baseline water quality monitoring.
- During general impact water quality monitoring, while outliers of high chromium values were observed, investigations had been carried out according to the relevant requirements of the Updated EM&A Manual whenever such outliners triggered the Action or Limit Levels, and the investigation findings concluded that such high chromium levels were not due to the Project but could be attributed to natural fluctuation/ seasonal variations/ external factors in the vicinity. Details of the investigation findings have been documented in the relevant Construction Phase Monthly EM&A Reports.

Based on the above analysis, it can be concluded that the marine works of the Project during construction phase did not cause deterioration in the chromium levels of the marine water surrounding the Project site.

#### Nickel:

According to Graphs D.13 and D.14, the following observations were made for the distribution of nickel monitoring results during the entire monitoring period:

- The mean and median values of nickel during post-construction phase monitoring are lower than the corresponding values during baseline water quality monitoring.
- The interquartile ranges of nickel during post-construction phase were found to be lower than the corresponding ranges during baseline water quality monitoring.
- During general impact water quality monitoring, while outliers of high nickel were observed, investigations had been carried out according to the relevant requirements of the Updated EM&A Manual whenever such outliners triggered the Action or Limit Levels, and the investigation findings concluded that such high nickel levels were not due to the Project but could be attributed to natural fluctuation/ seasonal variations/ external factors in the vicinity. Details of the investigation findings have been documented in the relevant Construction Phase Monthly EM&A Reports.

Based on the above analysis, it can be concluded that the marine works of the Project during construction phase did not cause deterioration in the nickel levels of the marine water surrounding the Project site.

#### 2.4.2 Conclusion

Based on the above analysis, the post-construction phase water quality monitoring did not reveal significant changes of the water quality when comparing with baseline water quality monitoring, and it can be concluded that the marine works of the Project during construction phase did not cause deterioration in or adverse impacts on the marine water quality surrounding the Project site.

#### 2.5 Waste Monitoring

In accordance with the Manual, the waste generated from construction activities was audited once per week to determine if waste was being managed in accordance with the Waste Management Plan (WMP) prepared for the Project, contract specific WMP, and any statutory and contractual requirements. All aspects of waste management including waste generation, storage, transportation, and disposal were reviewed during the audits.

#### 2.5.1 Action and Limit Levels

The Action and Limit Levels of the construction waste are provided in **Table 2.14**.

Table 2.14: Action and Limit Levels for Construction Waste

Monitoring Stations	Action Level	Limit Level
Construction Area	When one valid documented complaint is received	Non-compliance of the WMP, contract-specific WMPs, any statutory and contractual requirements

#### 2.5.2 Summary of Monitoring Results

Weekly monitoring on all works contracts were carried out by the ET in the reporting period to check and monitor the implementation of proper waste management practices.

Recommendations made included provision and maintenance of proper chemical waste storage area, as well as proper handling, segregation, and regular disposal of general refuse. Paper, plastics, and metals were recycled in the reporting period. The contractors implemented the recommended measures to improve waste management issues. Waste management audits were carried out by ET according to the requirement of the WMP, the Manual, and the implementation schedule of the waste management mitigation measures in **Appendix C**.

The construction waste generated in the reporting period is summarized in Table 2.15.

Table 2.15: Statistics of Construction Waste Generated in the Reporting Period

	Construction and Demolition Material Stockpiled for Reuse or Recycle <sup>(1)</sup> (m³)	Construction and Demolition Material Reused in the Project <sup>(2)</sup> (m³)	Construction and Demolition Material Reused in other Projects <sup>(2)</sup> (m <sup>3</sup> )	Construction and Demolition Material Transferred to Public Fill (m³)	Chemical Waste (kg)	Chemical Waste (L)	General Refuse (tonne)
Jan 2023	1,051	3,484	534	5,066	1,500	2,600	2187
Feb 2023	623	1,527	788	7,639	0	0	2833
Mar 2023	1,549	219	1,546	11,641	3,500	2,406	3385
Apr 2023	2,037	2,494	605	10,665	0	0	2781
May 2023	124	11,000	795	10,613	0	0	3006
Jun 2023	45	10,031	718	4,750	2,000	0	3216
Jul 2023	848	6,614	1,301	5,319	0	0	3304
Aug 2023	210	11,050	1,632	6,849	0	0	3580
Sep 2023	0	1,640	1,216	5,439	1,300	0	3143
Oct 2023	0	2,440	64	6,902	0	0	3958
Nov 2023	0	4,170	0.000	7,731	1,200	7,200	5029
Dec 2023	0	3,498	0.000	4,467	450	940	4135
Total	6,487	58,167	9,199	87,081	9,950	13,146	40557

#### Notes:

- 1. The excavated materials were temporarily stored at stockpiling area and would be reused in the Project.
- 2. According to latest update by Contractor, the values in Construction and Demolition Material Reused in the Projects and Construction and Demolition Material Reused in other Projects in 2023 are updated.

Starting from the year of 2018, the Project began to reuse numerous inert Construction and Demolition (C&D) materials from Government's Public Fill Banks including Tuen Mun Area 38 and Tseung Kwan O Area 137 for land formation work. This practice is considered beneficial for maximizing the use of suitable public fill materials from Government's Public Fill Banks for the Project. The quantity of public fill import for the year of 2023 was 2,296,962.06 tonnes. The accumulative amount of public fill import up to the year of 2023 was 24,986,761.69 tonnes.

There was no complaint, non-compliance of the WMP, contract-specific WMPs, statutory and contractual requirements that triggered Action and Limit Levels in this reporting period.

# 2.5.3 Marine Sediment Management

Marine sediment was managed according to the EIA Report, Updated EM&A Manual and WMP and the proposal of Further Development on Treatment Level / Details and the Reuse Mode for Marine Sediment (hereinafter referred to as "Further Development Proposal") of the Project. Based on EIA requirements, marine sediments would be treated using cement mixing and stabilisation/solidification method. All these treated sediments would be reused on-site as backfilling materials. The sampling process, storage conditions of the excavated marine sediment, treatment process, final backfilling location as well as associated records were inspected and checked by ET and verified by IEC to ensure they were in compliance with the requirements as stipulated in the WMP and Further Development Proposal.

The treatment and backfilling works for all marine sediment excavated from the areas without ground improvement works by Deep Cement Mixing (Refer to Section 2.5.3.2) were deemed to be completed in 2022.

## 2.5.3.1 Reclaimed Land Area with Ground Improvement Works by Deep Cement Mixing

With reference to the Further Development Proposal approved on 17 January 2020, the marine sediment generated from the areas with ground improvement works of the 3RS Project was treated in-situ with cement by DCM, and the excavated materials would be reused on-site without disposal to sea, it was considered more appropriate to have the excavated materials tested against Risk Based Remediation Goals (RBRGs). Therefore, as an alternative to the testing arrangement presented in the 3RS EIA Report, the assessment approach provided in the EPD's Practice Guide for Investigation and Remediation of Contaminated Land (hereafter referred to as "Practice Guide") was adopted and the quality of excavated marine sediment was assessed against the most stringent RBRG limits (for Rural Residential Land Use) for eight heavy metals including Arsenic, Cadmium, Chromium, Lead, Mercury, Nickel, Zinc and Copper.

If the testing results were below the RBRGs limits, no further environmental treatment would be required for the marine sediment materials excavated from the sampling grid. However, geotechnical treatment might require for marine sediment to improve the quality as backfilling materials. If there was RBRGs exceedance in a particular heavy metal at a certain sampling depth, only excavated sediment material from such sampling depth of the concerned sampling grid, would undergo further cement stabilization, before testing against the Toxicity Characteristics Leaching Procedure (TCLP) limit of the concerned heavy metal (heavy metal parameter exceeded RBRGs) before reuse. For TCLP limits, please refer to Table 2.16 (Table 4.6 of the Practice Guide). The excavated sediment materials from such sampling depth with exceedance of RBRGs, would be tested against Unconfined Compressive Strength (UCS) after treatment. The UCS was defined based on respective engineering requirements. The testing frequency for TCLP was the same as that described in Section 10.5.1.14 of the approved EIA Report, i.e. one sample per 50 m<sup>3</sup> for the first 1,000 m<sup>3</sup> batch of excavated sediment materials. Provided that the samples meet the TCLP limit(s), the subsequent testing frequency would be reduced to be at least two samples per 10,000 m<sup>3</sup> batch. In the event that the required level was not achieved, the concerned whole batch should be crushed and the material would be further handled and treated as necessary. The testing frequency should be revised to one sample per 50 m<sup>3</sup> batch (with two further samples kept for contingency) and treated samples should be taken for laboratory testing. Once the concerned heavy metal complied with the particular TCLP limit, the previous sampling frequency of at least two samples per 10,000 m<sup>3</sup> batch should be resumed.

Table 2.16: Universal Treatment Standards for On-site Reuse of Sediment Treated by Cement Mixing and Stabilization

Parameters <sup>(1)(2)</sup>	TCLP Limit (mg/L)
Arsenic	5
Cadmium	0.11
Total Chromium	0.6
Lead	0.75
Mercury	0.025
Nickel	11
Zinc	4.3

#### Notes:

- 1. Universal Treatment Standard US 40 CFR 268.48
- 2. For copper, it must be reduced by at least 90% in mobility for copper through cement stabilization/solidification remedial treatment. The reduction of mobility of copper (leachable metals contaminant) should be confirmed through TCLP tests (i.e. to carry out TCLP test for the untreated sediment and for the sediment after treatment and to compare the concentrations of copper in the leachates).

A sampling grid size of 100 m x 100 m was adopted for locating sampling points for areas where marine sediment to be excavated from the newly reclaimed area. One marine sediment sample was taken if the depth of marine sediment to be excavated was less than or equalled to 3 m. If

the depth of marine sediment to be excavated was less than or equalled to 6 m, a sample was taken from the depth of 0 - 3 m, and 3 - 6 m. If the marine sediment to be excavated was more than 6 m, a sample was taken from three different depths including one in the depth of 0 - 3 m, 3 - 6 m, and 6 m to the bottom of the marine sediment to be excavated. All above testing were carried out by HOKLAS laboratory, and the results were checked by ET and IEC.

The tentative location of sampling grids where marine sediment is to be excavated from the newly reclaimed area land was presented in Appendix A of the Further Development Proposal. **Figure 2.3** all the sampling grids covering all the areas where marine sediment was excavated from the newly reclaimed land up to the end of the reporting period. The sampling grid for each area is denoted by specific colour, the sampling grids with light green and light red shaded represent all sampling layer(s) passed RBRGs limit(s) and sampling layer(s) with parameter(s) exceeding RBRGs limit(s), respectively. Details of sampling ID and sampling depths are also presented in each sampling grid. The number of grids for sampling for each area, the number of grids with pass and fail of the RBRGs results, the number of grids with marine sediment not encountered within the final excavation level and the number of grids to be sampled in future reporting period are all summarised in **Table 2.17**.

Table 2.17: Summary of Marine Sediment Testing Results for Sampling Grids within the Reclaimed Land Area with Excavation

Sampling Area	Western Vehicular Tunnel	Eastern Vehicular Tunnel	Airport North Fire Station	Terminal 2 Concourse	APM/BHS Tunnel and Ancillary Building with Piled Foundation
Grid Sampling and Testing					
Total No. of Grids for Areas where Marine Sediment was Excavated (a)+(b)+(c)	15	11	1	36	34
No. of Grids with "Pass" RBRGs Results (a)	14	7	1	34	30
No. of Grids with "Fail" RBRGs Results (b)	0	0	0	2	3
No. of Grids with Marine Sediment Not Encountered within the Final Excavation Level (c)	1	4 <sup>(1)</sup>	0	0	1
Total No. of Grids for Areas where Marine Sediment is not Required for Excavation under Current Status	0	0	0	14 <sup>(2)</sup>	0

Note:

## 2.5.3.1.1 Western Vehicular Tunnel and Airport North Fire Station

The Western Vehicular Tunnel (WVT) and Airport North Fire Station were covered by Contracts 3303 and 3310. There were total 16 numbers of sampling grids and all the testing results passed the RBRGs limits, and the excavation of marine sediment in WVT and North Fire Station were completed.

## Western Vehicular Tunnel

Construction of WVT was covered by Contracts 3303 and 3310. For Contract 3310, there was 1 sampling grid and the testing result indicated no marine sediment encounter within final excavation level. Therefore, no marine sediment was generated from Contract 3310 up to December 2023. For Contract 3303, there were 14 sampling grids and all passed the RBRGs limits. Up to this reporting period, a total of 295,283 m³ treated marine sediment was backfilled and the backfilling locations are shown in **Figure 2.4**. Remaining excavated marine sediment was

<sup>(1)</sup> RBRG testing was conducted for one of the sampling grids and the testing results exceeded the RBRG limits. However, the contractor re-confirmed that the marine sediment excavation will not reach the "fail" RBRG level.

<sup>(2)</sup> There is no schedule that excavation will be required at the western portion of the T2C until the completion of the works. Therefore, no marine sediment sampling or excavation is required for this area under current status.

stockpiled properly at 3RS project site area and awaited for geotechnical treatment and backfilling by other contractor.

#### **North Fire Station**

Construction of North Fire Station was covered by Contract 3303, there was 1 sampling grid and the result passed the RBRGs limits. Up to this reporting period, 9,269 m³ treated marine sediment was backfilled and the backfilling location is shown in **Figure 2.4**.

#### 2.5.3.1.2 Eastern Vehicular Tunnel and Terminal 2 Concourse

The Eastern Vehicular Tunnel (EVT) and Terminal 2 Concourse (T2C) were covered by Contracts 3405, 3310 and 3408. Out of the total 47 numbers of sampling grids for EVT and T2C, 2 sampling grids with Arsenic exceeding RBRGs limit were recorded and reported in the previous Annual Report.

#### **Terminal 2 Concourse**

T2C was covered by Contract 3405. Out of 36 numbers of sampling grids, 2 sampling grids were recorded with Arsenic exceeding the RBRGs limit and the remaining 34 sampling grids passed all the RBRG limits. The Contractor was carrying out (1) the marine sediment excavation works; (2) geotechnical treatment for excavated marine sediment which passed RBRG limits; (3) environmental treatment and TCLP testing sampling works for excavated marine sediment which exceeded RBRG limits; and (4) treated marine sediment backfilling works during the reporting period. Up to this reporting period, all marine sediment within final excavation levels at T2C was excavated. All marine sediment that exceeded RBRGs limit was treated and backfilled. A total of 103,181 m³ treated marine sediment including marine sediment which passed and exceeded RBRGs limit was backfilled. The backfilling locations are shown in **Figure 2.4**. The remaining excavated marine sediment that passed RBRGs limit was stockpiled properly at 3RS project site area and awaited for geotechnical treatment before backfilling.

No marine sediment sampling or excavation works at the western portion of T2C were undertaken in the reporting period and will be subject to future development programme at this area.

#### **Eastern Vehicular Tunnel**

EVT was covered by Contracts 3310 and 3408. For Contract 3310, there was 1 sampling grid and the testing result indicated no marine sediment encounter within final excavation level. Therefore, no marine sediment was generated from Contract 3310 up to December 2023. For Contract 3408, out of 10 numbers of sampling grids, 3 sampling grids were recorded with marine sediment not encountered within the final excavation level and the remaining of 7 sampling grids passed all the RBRG limits. The Contractor was carrying out (1) marine sediment excavation works and (2) geotechnical treatment for excavated marine sediment which passed RBRGs limit during this reporting period. The excavated marine sediment was stockpiled properly at 3RS project site area and awaited for geotechnical treatment before backfilling. The treated marine sediment was stockpiled properly on site and no marine sediment backfilling works was conducted in the reporting period.

# 2.5.3.1.3 APM / BHS Tunnel and Ancillary Buildings with Piled Foundations

The APM / BHS Tunnel and Ancillary Buildings with Piled Foundations was covered by Contracts 3802, 3804 and 3805. Contract 3804 conducted one newly sampling grid at Grid 34 during the reporting period as shown in **Figure 2.3**, and the testing result passed all RBRGs limits as shown in **Appendix E**. Out of 34 numbers of sampling grids, three sampling grids were recorded with Arsenic exceeding the RBRGs limit, one sampling grid was recorded with marine sediment not encountered within the final excavation level and the remaining 30 sampling grids passed all the RBRGs limits.

#### **APM / BHS Tunnel**

Construction of APM/ BHS Tunnel was covered by Contract 3802. There were total 33 numbers of sampling grids and three sampling grids exceeded RBRGs limits. During the reporting period, Contractor 3802 was carrying out (1) the marine sediment excavation works; (2) geotechnical treatment for excavated marine sediment which passed RBRGs limits; and (3) backfilling works for treated marine sediment. Up to this reporting period, 1,599m³ treated marine sediment was backfilled and the backfilling locations are shown in **Figure 2.4**. The remaining excavated marine sediment was stockpiled properly at 3RS project site area and awaited for geotechnical treatment before backfilling. Up to December 2024, all excavated marine sediment with exceedance in RBRGs limit was treated to meet the TCLP limits and stockpiled on 3RS project site separately from the treated marine sediment that passed RBRGs limits, and awaiting for backfilling.

#### **Ancillary Buildings with Piled Foundations**

Construction of East Fire station and Landside Fire Station were covered by Contract 3804. Out of 6 numbers of sampling grids (refer to **Figure 2.3**, 3802-BHS/APM-Grid 6, 18, 19, 20, 21 & 3804-EFS-Grid 1), 1 sampling grid was recorded with Arsenic exceeding the RBRGs limit and the remaining five sampling grids passed all the RBRGs limits. During the reporting period, the Contractor was carrying out marine sediment excavation works for bored piling works, and all the excavated marine sediment was stockpiled properly at 3RS project site area and awaited for geotechnical treatment/ environmental treatment. Their TCLP sampling results and backfilling location would be reported in the next Annual EM&A Report.

Construction of the New Airport District Police Operational Base was covered by Contract 3805. All four numbers of sampling grids passed all the RBRGs limit. During the reporting period, the Contractor was carrying out (1) marine sediment excavation works for bored piled works; (2) geotechnical treatment for the excavated marine sediment which passed RBRGs limit; and (3) backfilling works for treated marine sediment. Up to this reporting period, 3,798m³ treated marine sediment was backfilled and backfilling location is shown in **Figure 2.4**. The remaining excavated and treated marine sediment was stockpiled properly at 3RS project site area and awaited for geotechnical treatment and backfilling, respectively.

#### 2.5.3.2 Area without Ground Improvement Works by Deep Cement Mixing

For the excavated marine sediment generated from the areas without ground improvement works by DCM (i.e. construction berth at Area C5 of the reclaimed land area, existing airport island area and approach light area), the excavated marine sediment was treated with cement and tested against the TCLP limits as provided in **Table 2.16**. The testing frequency was the same as that described in Section 10.5.1.14 of the approved EIA Report, which has been provided in **Section 2.5.3.1**. The treated marine sediment was tested against relevant engineering requirements to confirm their suitability as backfilling material for respective areas of different future uses. The UCS was also tested and defined based on respective engineering requirements. The backfilling works for all marine sediment excavated from the areas without ground improvement works by DCM were completed and there was no update during the reporting period. The following sections provide a summary on the volume of marine sediment excavated and treated for different areas.

### 2.5.3.2.1 Construction Berth at Area C5 of the Reclaimed Land Area

A construction berth was constructed at the eastern portion of newly reclamation area by Contract 3206. During the installation of casing, approximately 99m³ of marine sediment was generated and treated with cement stabilisation. The treated marine sediment was then tested against the TCLP limits and no exceedance was found. The backfilling of treated marine sediment was completed in 2022 and the backfilling location (a total of 117m³ treated marine sediment) is shown in **Figure 2.4**. The sediment treatment and backfilling works were deemed to be completed.

#### 2.5.3.2.2 T2 Foundation and Substructure Works

Approximately 60m³ of marine sediment was excavated and treated with cement stabilisation by Contract 3503. The treated marine sediment samples were collected and tested against the criteria for reuse of treated marine sediments with reference to the Universal Treatment Standards, which specify the TCLP test limits and passed the TCLP limits. All the marine sediment generated was treated and treated marine sediment backfilling work was completed in 2022. The backfilling locations of the treated marine sediment (a total of 72m³) are shown in **Figure 2.4**. The sediment treatment and backfilling works were deemed to be completed.

# 2.5.3.2.3 Approach Light Area

The marine sediment generated from Approach Light Area was covered by Contract 3303. The sampling works, treatment works, TCLP testing work and backfilling of the treated marine sediment were completed. The excavated marine sediment was about 2,251 m³ and treated with cement stabilisation. The treated marine sediment samples were collected and tested against the TCLP limits and no exceedance was found. The backfilling was completed in 2022 and backfilling location of treated marine sediment (a total of 2,404m³) is shown in **Figure 2.4**. The sediment treatment and backfilling works were deemed to be completed.

## 2.6 Chinese White Dolphins

According to Sections 10.2.1.2 and 10.2.1.3 of the Updated EM&A Manual, CWD monitoring is required during the baseline, construction, post-construction and operation phases of the project. The construction phase monitoring of CWDs ended in December 2023 while the 12 months post-construction phase monitoring commenced on 1 January 2024. The construction phase CWD impact monitoring did not stop together with the construction phase water quality impact monitoring to collect a full-year set of monitoring data to facilitate the evaluation of CWD abundance on an annual basis. This arrangement was agreed upon by AFCD and EPD in December 2023. The commencement of CWD post-construction phase monitoring was approved by the EPD on 20 December 2023.

The aims of CWD monitoring during the construction period are:

- to monitor the potential shift in the CWD travelling areas and habitat use;
- to monitor the effectiveness of the HSF speed and routing restrictions to the CWDs;
- to provide a dataset compatible with the AFCD long-term monitoring, stratified in such a way
  as to allow the calculation of density and abundance for the different phases and to calculate
  the trends from these estimates; and
- to provide an assessment of how the project and cumulative effects may be impacting the CWDs.

This section summarises the results of the CWD construction phase monitoring effort over a 12-month period from January 2023 through December 2023, to gather information on the spatial and temporal distribution patterns as well as calculate density and abundance of CWD in western Hong Kong waters. Supplementary information collected focusing on northwestern Lantau waters, including habitat use and behaviours of CWD during the construction phase of the Project, has also been reviewed.

This reporting period is effectively the seventh full year of construction phase monitoring of CWDs. The overall monitoring programme commenced in August 2016, although there were no marine construction works in August and September 2016, and only localised sand blanket laying and DCM trial works from October to December 2016. This annual report reviews the construction phase monitoring data for 2023 and compares it with the construction phase monitoring data for the previous years.

CWD monitoring was conducted by undertaking vessel line-transect surveys, supplemented by land-based theodolite tracking surveys and Passive Acoustic Monitoring (PAM). The vessel line transects covered Northeast Lantau (NEL), Northwest Lantau (NWL), Airport West (AW), West Lantau (WL) and Southwest Lantau (SWL) at a frequency of two full surveys per month as proposed in Section 10.2.3.2 of the Updated EM&A Manual, which is consistent with the AFCD long-term monitoring programme (except AW). The locations of the CWD vessel survey transects are shown in **Figure 2.5**. Additional survey effort was collected on a voluntary basis at the same frequency of two surveys per month from Deep Bay (DB) (refer to **Appendix F** for the location of this additional survey), which is an area that historically had CWDs in the outer bay, to establish a full understanding of CWD abundance. All the DB data were considered supplemental and were only used for density and abundance estimation.

Density and abundance analysis made use of both conventional distance sampling (CDS) and a more sophisticated approach – multiple covariate distance sampling (MCDS) to estimate CWD abundance for the waters of Hong Kong. The additional analysis using MCDS is more time-consuming and labour-intensive than CDS as it uses information on environmental factors that are likely to affect detection probability (such as variables describing sighting conditions) and generally produces estimates with higher precision (i.e., lower variances and CVs) (Marques and Buckland, 2003 & 2004). However, datasets with small sample sizes (not unusual in marine mammal studies) can make it difficult or impossible to achieve model "convergence" in some MCDS analyses, and thus it is critical to always start each analysis with CDS methods (this also helps to determine the appropriate truncation distance and overall modelling approach).

Based on the vessel survey data, seasonal differences in dolphin density and use of the study area were examined, using the solar seasons (Winter: December-February, Spring: March-May, Summer: June-August, Autumn: September-November) and/or oceanographic seasons (Dry: October-March, Wet: April-September).

The travelling patterns in different areas were reviewed by using photo-identification of individual dolphins and their re-sighting locations, depicting the range use and cross-area movement of resighted individuals, where practicable. Travelling of CWDs in the north of Lung Kwu Chau were particularly supplemented with information from land-based theodolite tracking survey findings.

For the land-based theodolite tracking surveys, the monitoring frequency during the construction phase for marine works was one day per month at both the Lung Kwu Chau (LKC) station and Sha Chau (SC) station, as stipulated in Section 10.2.3.4 of the EM&A Manual. PAM was also deployed for the construction phase with data supplementing the results of both vessel and land-based surveys. For details on CWD monitoring and data analysis methodologies refer to Section 10.2.4 of the EM&A Manual. The locations of land-based survey stations are described in **Table 2.18** and depicted in **Figure 2.6**. The location of the Passive Acoustic Monitoring device at A5 (with the coordinates of 22° 20.299' N, 113° 53.871' E) is shown in **Figure 2.7**.

**Table 2.18: Land-based Survey Station Details** 

Stations	Location	Geographical Coordinates	Station Height (m)	Approximate Tracking Distance (km)
D	Sha Chau (SC)	22° 20′ 43.5″ N 113° 53′ 24.66″ E	45.66	2
Е	Lung Kwu Chau (LKC)	22° 22' 44.83" N 113° 53' 0.2" E	70.40	3

## 2.6.1 Action and Limit Levels

The Action Level and Limit Level for CWD monitoring were formulated by an action response approach using the running quarterly dolphin encounter rates (Encounter Rate by Number of Dolphin Sightings 'STG' and Encounter Rate by Number of Dolphins 'ANI') derived from baseline

monitoring data covering six months from mid-December 2015 to June 2016, as presented in the CWD Baseline Monitoring Report. The derived values of Action and Limit Levels for CWD monitoring are shown in **Table 2.19**. Running quarterly encounter rates STG and ANI have been determined for each month since August 2016 to compare with the derived Action/limit levels for construction phase monitoring of CWDs. If persisting declines in the CWD running quarterly encounter rate values are determined month on month, an appropriate short-term response is then possible if the decline is shown to be related to 3RS construction activity.

Table 2.19: Derived Values of Action Level and Limit Level for Chinese White Dolphin Monitoring

	NEL, NWL, AW, WL and SWL as a Whole
Action Level <sup>(1)</sup>	Running quarterly STG < 1.86 & ANI < 9.35
Limit Level <sup>(1)</sup>	Two consecutive running quarterly (3-month) STG < 1.86 & ANI < 9.35

Notes: (1) Action Level and/or Limit Level will be triggered if both STG and ANI fall below the criteria

# 2.6.2 Summary of Monitoring Results

# **2.6.2.1** Summary of Vessel Line-transect Survey Monitoring Results

#### 2.6.2.1.1 Survey Effort

During the reporting period from January 2023 through December 2023, surveys were completed in Northeast Lantau (NEL), Northwest Lantau (NWL), Airport West (AW), West Lantau (WL), and Southwest Lantau (SWL) survey areas. A total of around 5384.9 km survey effort was collected in this reporting period.

Around 97.2% (5234.8 km) of the survey effort was collected under favourable weather conditions (i.e. Beaufort 0-3 and visibility of approximately 1200 m or beyond), and can be utilised in analyses of encounter rates, density and abundance.

The breakdown of the survey effort by survey areas is tabulated in Table 1 of **Appendix F**. A detailed record of the survey effort data is also provided in **Appendix F**.

## 2.6.2.1.2 Sighting Distribution

During the reporting period, a total of 160 groups consisting of 542 CWDs were sighted in NWL, AW, WL and SWL survey areas during on-effort surveys. Apart from that, there was one off-effort sighting recorded. All 160 groups with 542 CWDs were sighted during on-effort surveys under favourable weather conditions (Beaufort 0-3 and visibility of approximately 1200 m or beyond). The off-effort sighting was excluded from analysis in the following sections. Breakdown of the sightings by survey areas are tabulated in Table 2 of **Appendix F**.

In NWL (including AW transects), CWDs were mainly sighted within and around the SCLKCMP, particularly in waters around Lung Kwu Chau. Compared to 2022, there were fewer sightings recorded in water around SCLKCMP. Several sightings were also recorded at the west of the existing Hong Kong International Airport. No sighting was recorded within the 3RS temporary works area.

In WL, CWD sightings were recorded on all transects. The sightings were distributed quite evenly over the entire survey area between Tai O and Fan Lau.

In SWL, sightings of CWD were scattered at most of the survey area except the waters to the east of the Soko Islands. There was a cluster of CWD sightings near Fan Lau while the number of CWD sighting declined significantly toward the Soko Islands and further to the eastern water.

No CWDs were recorded in NEL survey area. The sighting locations of CWDs during this reporting period are depicted in Figure 1 of **Appendix F**.

## 2.6.2.1.3 Encounter Rates

Two types of dolphin encounter rates were calculated based on the data collected during the reporting period. They included the number of dolphin sightings per 100 kilometers survey effort (STG) and total number of dolphins per 100 kilometers survey effort (ANI). The dolphin encounter rates were calculated by using survey data collected under favorable weather conditions only (Beaufort sea state 3 or below with favorable visibility). Encounter rate provides a short to medium term frequency method for monitoring and responding appropriately to changes in CWD abundance as project works progress (referring to Section 10.5.2.3 of the EM&A Manual). The two types of encounter rates provide an overall indication of changes in CWD numbers over time in western Hong Kong waters.

During the reporting period, the overall combined STG and ANI of CWDs (from NEL, NWL, AW, WL and SWL) in 2023 were 3.06 and 10.35 respectively. Dolphin encounter rates by survey area and a summary of monthly encounter rates are presented in Table 3 and Table 4 of **Appendix F** respectively. Compared by area, WL had the highest encounter rates STG and ANI amongst the survey areas, followed by SWL.

The temporal trends in 2023 fluctuated throughout the year and exhibited no distinctive seasonal patterns. The peak monthly STG and ANI occurred in February and March. This trend is rather different to previous years (e.g. 2019-2022) that the peak of monthly STG and ANI usually occurred in July. The trends of both monthly STG and ANI are presented in Figure 2 and Figure 3 of **Appendix F** respectively.

Running quarterly encounter rates STG and ANI data were determined for each month for comparison with the Action/Limit levels for construction phase monitoring of CWD. Although the running quarterly ANI has fallen below the Action Level in January, February, October, November, and December 2023, the overall Action Level was not triggered in this reporting period because the running quarterly STG of those months remained above the Action Level. However, it should be noted that the running quarterly STG of January 2023 has reached the lowest of the year (1.92) and it was very close to the Action Level. The Limit Level was not triggered during this reporting period as there were not any two consecutive running quarterly STG and ANI falling below the Action Level. The running quarterly STG and ANI from January to December 2023 are summarised in Table 4 of **Appendix F.** The graphical plots of running quarterly encounter rates of the current reporting year and the past reporting years are presented in Figure 2 and Figure 3 of **Appendix F** respectively.

## 2.6.2.1.4 Density and Abundance Estimation

Line-transect analyses to estimate the density and abundance of CWDs in Hong Kong waters during the reporting period were conducted using the same basic methods as in previous analyses. Although we experimented with Beaufort sea state as a co-variate, for 2023 the best estimate of abundance was obtained using Conventional Distance Sampling and a half-normal model with a cosine adjustment (effective strip width = 343 m). The detection function of 3RS CWD monitoring data of this reporting period is shown in Figure 4 of **Appendix F** and the various parameters of the 2023 estimates are shown in Table 5 of **Appendix F**. The overall abundance estimated for this reporting period (incorporating an entire year of data from all four seasons) was 40 CWDs (CV = 14.4%, indicating a good level of precision of <20%). This is somewhat above the estimate from the last three years from 2020 to 2022. For comparison, the 2022 estimate was 35 CWDs (CV = 15.8%), the 2021 abundance was 34 CWDs (CV = 16.5%) and the 2020 abundance was 32 CWDs (CV = 12.8%). As in all recent years, the area with the highest abundance and highest density in 2023 was WL (N=30; this has been consistent over the AFCD long-term records). NWL showed a very similar number of dolphins from the previous year (4 in

2023 and 3 in 2022), though SWL showed a decrease (from 10 to 5). NEL registered an abundance of zero, which has been the case in most of the last 10-12 years observed from both AFCD's and 3RS's monitoring. Overall, the number of dolphins was similar, though up somewhat, from last year. Though this may be indicative of the beginnings of a recovery, after dolphins moved away from the works area in past years, we are not yet seeing signs of a strong recovery in numbers. The drop in numbers since about 2010 is thought to be partly related to the impacts from the construction of the Hong-Kong-Zhuhai-Macao Bridge (HZMB). The HZMB impacts on dolphins would be expected to have been most severe between 2013-2016 (when the brunt of construction was occurring), and in fact, this time period saw a significant drop in numbers of dolphins in Hong Kong (see Jefferson 2018; Jefferson et al. 2023). Though this will require further examination, an increase since the completion of 3RS marine works is consistent with what was predicted in the 3RS EIA that further drops in CWD numbers during the 3RS construction, followed by a likely rebound towards pre-3RS construction levels in the period after completion of 3RS marine works.

It is worth noting that the 3RS EIA predicted significant impacts on CWDs (Mott MacDonald 2014), and a drop in numbers of dolphins in the area during the most intensive part of the 3RS construction phase was expected. Reclamation filling works were substantially completed in 2021 and some recovery after the main marine filling and reclamation works are finished was anticipated. However, this issue will need to be examined with more data over several years, as recovery may take some time. Cumulative impacts due to the 3RS project with other concurrent projects (e.g., reclamation works near Tung Chung in recent years, for instance) will become clearer as research progresses, and datasets grows.

In addition to estimating year-round abundance for each of the survey areas, a seasonal analysis was also conducted (the pooled dataset from all survey areas was used, as stratifying by both survey area and season would reduce the sample sizes that result in estimates with unacceptably low levels of precision) (refer to Table 5 of **Appendix F**). The autumn estimate was the lowest (N=31 dolphins), which is different from what has traditionally been the case for dolphin numbers in Hong Kong. The spring estimate showed the highest numbers (N=65 dolphins). Based on historical records, autumn has usually been the high season and spring the low season, so what we saw in 2023 was the opposite of this. This suggests that the environment is changing to the point that traditional patterns are being disrupted. The 2023 seasonal analysis shows that there was a marked influx of dolphins into Hong Kong during the transition from dry to wet seasons (especially in spring and summer months).

#### 2.6.2.1.5 Quantitative Grid Analysis on Habitat Use

Quantitative grid analysis was conducted to examine the habitat use amongst the survey areas, both SPSE (no. of on-effort sightings per 100 units of survey effort) and DPSE (no. of dolphins per 100 units of survey effort) values for each 1 km² grid were calculated in all grids amongst all survey areas for the period from January 2023 to December 2023. SPSE and DPSE of the current reporting year and the previous reporting years are depicted in Figure 5 of **Appendix F**.

CWDs' usage of waters in NWL in 2023 looks rather similar to that of 2022 with more usage of southwestern waters off Lung Kwu Chau, north to SCLKCMP and the west of existing HKIA. The most obvious difference in CWD's usage in NWL compared to previous years is the first time that CWDs were absent from the western boundary of HKSAR in NWL.

The important dolphin habitats in WL survey area in 2023 are largely similar to 2022 with an increase in use around Peaked Hill. Grids with high SPSE and/or DPSE value(s) in WL were near Tai O, Yi O, Peaked Hill and Fan Lau.

In SWL, there was a decrease of CWDs' usage at Soko Islands and Lo Kei Wan in 2023 again after a mild rebound last year (i.e. 2022), while the waters around Fan Lau and Fan Lau Tung Wan remained frequently used by CWDs.

Cumulative SPSE and DPSE values were also calculated by using the 3RS CWD monitoring data since mid-December 2015 and are depicted in Figure 6 of **Appendix F**. Grids in western waters of Hong Kong with higher dolphin density are restricted to waters off West Lantau, at Tai O, Yi O, Peaked Hill and Fan Lau.

#### 2.6.2.1.6 Group Size

During the reporting period from January 2023 to December 2023, group size of CWDs ranged from one to 16 dolphins, with an average of 3.39, taking into account of all on-effort CWD sightings recorded. The average group sizes of NWL, AW, WL and SWL were 3.79, 2.33, 3.47 and 3.03 respectively. By four solar seasons, the average group size of CWDs was the highest in spring (4.38) but the lowest in winter (2.90). The summaries of the average group size of CWDs by survey area and by season are presented in Table 6 and Table 7 of **Appendix F**.

CWD sightings with small group size (i.e. 1 to 2 dolphins per group) and medium group size (i.e. 3 to 9 dolphins per group) were dominant in 2023 with around 48.8% and 48.1% of all on-effort sightings respectively. Five sightings, which accounted for 3.1% of all sightings, were large CWD groups with 10 or more dolphins per group.

Both small and medium CWD groups were generally sighted throughout the distribution range of dolphins in NWL, WL and SWL waters, except the observation that medium-sized groups were absent from the coastal waters of Tai Long Wan, Tong Wan near Shek Pik, and the eastern SWL survey area. Large-sized CWD groups were recorded in WL and SWL survey areas, particularly near Fan Lau. The sighting distribution of CWDs with different group sizes is illustrated in Figure 7 of **Appendix F**.

## 2.6.2.1.7 Activities and Association with Fishing Boats

Although vessel surveys do not provide the most unbiased information on the behaviour and activities of dolphins (due to the potentially disturbing presence of the vessel itself, and also the low vantage point of small vessels), nonetheless behaviour and activity data are still useful and are being collected from the vessel surveys.

During the reporting period, a total of 49, 9, 27 and 2 groups of CWDs were observed engaging in foraging, travelling, socialising and resting/milling activities, comprising of 31%, 6%, 17% and 1% of all on-effort CWD sightings respectively. The sighting locations of CWD groups engaged in different types of activities are depicted in Figure 8 of **Appendix F** while the percentages of different activities for each of the survey areas are shown in Table 8 of **Appendix F**.

In NWL, both foraging and socialising activities occurred within and outside SCLKCMP, and at the southwestern corner of the survey area.

In WL, foraging and socialising activities of CWDs occurred throughout the entire survey area. CWD sightings engaged in those activities occurred mainly at waters between Yi O and Peaked Hill, and also at Fan Lau. Travelling activities were mainly clustered between Yi O and Fan Lau, while one CWD sighting engaged in milling/resting activities was recorded at Yi O.

In SWL, the sightings with observed activities were scattered in the western water of the survey area, between Soko Islands and Fan Lau. Travelling activities mainly occurred near Soko Islands with one sighting occurring in the southern water of Fan Lau Tung Wan.

A total of 11 sightings of CWDs were observed associating with operating fishing boats, including gill netters (one group), pair trawler (one group), shrimp trawler (one group), and purse seiners (eight groups), accounting for 6.9% of all on-effort sightings in 2023. CWDs' association with operating fishing boats in 2023 showed a minor drop compared to that of last year (8.1% in 2022).

Observations of CWD association with operating fishing boats were scattered in WL, SWL and NWL. Association with gill netters and a shrimp trawler were observed near Tai O and Peaked

Hill respectively in WL. The four sightings in association with purse seiners in WL were observed in water between Tai O and Peaked Hill. While in SWL, associations with operating purse seiners were mainly observed in coastal water between Fan Lau and Tong Wan. Another sighting in association with pair trawlers was observed in the northeast water of SCLKCMP in NWL. The sighting locations of CWD groups associated with operating fishing boats are depicted in Figure 9 of **Appendix F**.

#### 2.6.2.1.8 Mother-calf / Mother-unspotted Juvenile Pairs

During the reporting period, a total of 30 sightings were observed of mother-and-unspotted calf (UC), mother-and-unspotted juvenile (UJ) and/or mother-and-mottled pairs, which accounted for about 18.8% of all on-effort sightings of 2023. The sighting number was similar to that of 2022 (31 sightings). For different survey areas, the percentages of sightings with mother-calf pairs in NWL, AW, WL and SWL were 35.7%, 33.3%, 18.9% and 9.4% respectively. These percentages were calculated by dividing the number of sightings with mother-calf pairs of a survey area by the total number of on-effort sightings of that survey area.

The abovementioned 30 sightings included five pairs of mother-and-UC and 31 pairs of mother-and-UJ. According to the results of photo-identification, a total of six mother-calf pairs were successfully identified from these 30 sightings.

Most of the sightings with a mother-calf pair were recorded in WL between Tai O and Fan Lau. In NWL, one sighting with mother-calf pairs was recorded in SCLKCMP while other sightings were recorded to the west of the existing airport. In SWL, three sightings with the presence of mother-calf pairs scattered in waters between Fan Lau and the Soko Islands. The sighting distribution of mother-calf pairs is depicted in Figure 10 of **Appendix F**.

#### 2.6.2.1.9 Photo Identification – Summary

In 2023, a total of 18 newly identified CWD individuals were added to the photo-identification catalogues, including four animals added to NL catalogue and 14 animals added to WL catalogue. One animal, namely SLMM075 was confirmed to be a duplicate of another individual (i.e. NLMM041), which had already been identified previously. Therefore, all records under this duplicate were transferred to the records under NLMM041.

In 2023, a total of 116 CWD individuals were identified for altogether 359 times from all sightings. Amongst these 116 CWD individuals, 26, 62 and 28 belonged to NL, WL and SL catalogues respectively. There were 69 individuals (around 59.5%) that were sighted more than once. Twenty-six of these 66 re-sighted individuals were sighted five times or more.

The most frequently re-sighted animals in 2023 were SLMM003, SLMM037, SLMM044 and WLMM056. They were all sighted 11 times, followed by WLMM007 and SLMM010 (being resighted 10 times and 9 times respectively). SLMM037 was also the most frequently re-sighted animal of the previous reporting year (i.e. being sighted for 12 times in 2022). Since the establishment of the photo-identification catalogue, the most frequently re-sighted animal is SLMM014 which has been sighted 70 times, followed by SLMM003 and SLMM037 (each being sighted 64 times), SLMM010 (sighted 57 times) and WLMM001 (sighted 56 times). There are a few more animals including NLMM013, WLMM007, WLMM027, WLMM028, WLMM043, WLM056, WLMM071, WLMM079, WLMM114, WLMM131, SLMM002, SLMM007, SLMM012, SLMM023, SLMM031, SLMM049 and SLMM052, that have been sighted 30 times or more.

Twenty-eight animals that were frequently using Hong Kong waters in previous years (with 10 or more re-sighting records since the commencement of the monitoring in mid-December 2015) have disappeared from our sighting records in 2023 (note that these dolphins may still be using Hong Kong waters, but may have not been detected from our surveys). These animals are NLMM002, NLMM004, NLMM006, NLMM010, NLMM018, NLMM019, NLMM043, SLMM011, SLMM012, SLMM015, SLMM017, SLMM028, SLMM045, SLMM053, WLMM006, WLMM008,

WLMM009, WLMM013, WLMM049, WLMM052, WLMM054, WLMM060, WLMM076, WLMM078, WLMM081, WLMM090, WLMM107 and WLMM131. Some of these individuals (i.e. NLMM002, NLMM004, NLMM006, NLMM010, NLMM018, NLMM019, NLMM043, SLMM011, SLMM015, SLMM017 SLMM028, SLMM045, SLMM053, WLMM006, WLM008, WLMM009, WLMM054, WLMM060, WLMM078, WLMM090 and WLMM107) have not been seen in Hong Kong waters for two or more years. We could not confirm if these animals were occurring elsewhere in mainland waters, or if some of them have already passed away.

On the other hand, some dolphins (with 10 or more re-sighting records since the commencement of the monitoring in 2015) that disappeared from previous years have returned to Hong Kong waters in 2023. These dolphins include NLMM001, NLMM020, NLMM021, SLMM022, WLMM030, WLMM062 and WLMM086. Amongst these animals, NLMM041 showed the most noticeable return to Hong Kong waters in 2023. This animal was first identified in 2016 and was regularly seen every year between 2016 and 2019, then disappeared from our sightings between 2020 and 2022, followed by the return in 2023 with six re-sightings.

In previous years, special attention had been given to SLMM028, which had a severe injury in 2018. It showed good signs of recovery from its serious injury with normal foraging behaviour recorded 2019 and 2020, however, it was not sighted during vessel surveys for three years since 2021. Continuous attention will be given to SLMM028 in 2024.

A summary of the photo-identification records of CWDs is presented in Table 9 of Appendix F.

#### 2.6.2.1.10 Photo Identification – Range Use of Identified CWD individuals

SLMM003, the most frequently re-sighted animal in 2023 and also the 2<sup>nd</sup> most frequently resighted animal since mid-December 2015, continued to occur frequently in WL and SWL waters. Following the shrinking range use in both areas observed in 2022, SLMM003's range use remained similar to that of 2022, ranging from Yi O in WL to Fan Lau Tung Wan in SWL.

SLMM037, the most frequently re-sighted animal in 2023 and also the 2<sup>nd</sup> most frequently resighted animal since mid-December 2015, continued to occur frequently in WL and SWL waters like SLMM003. It continued to occur from Yi O in WL to Soko Islands in SWL.

SLMM044, another most frequently re-sighted animal in 2023, continued to occur in WL and SWL waters. The range use of SLMM044 remained similar to 2022 with a mild eastward extension in SWL.

WLMM056, another most frequently re-sighted animal in 2023, continued to occur in WL and SWL waters. The range use of WLMM054 in northern part of WL shrank to waters between Tai O and Yi O when compared to the range use of 2022.

WLMM007, the 2<sup>nd</sup> most frequently re-sighted animal in 2023 occurred in WL and SWL waters much more frequently than in 2022. Its range use shrank a bit from Tai O to Yi O in WL and from Fan Lau Tung Wan to Fan Lau in SWL compared to earlier years (i.e. 2015 to 2021)

SLMM010, the 3<sup>rd</sup> most frequently re-sighted animal in 2023 and the 3<sup>rd</sup> most frequently sighted animal overall, occurred much more in WL and SWL waters than in 2022. Its range use in NWL and WL shrank from the waters between Sham Wat to Fan Lau in earlier years (i.e. 2015 to 2021), to the waters between Peaked Hill to Fan Lau in 2023.

The sighting locations of SLMM003, SLMM037, SLMM044, WLMM056, WLMM007 and SLMM010 are depicted in location maps under Figure 11 of **Appendix F**, which provide the indicative distribution range use of representative individuals recorded for the 3RS CWD monitoring.

#### 2.6.2.1.11 Photo Identification – Cross-area Movement

Amongst the 69 individuals that were re-sighted more than once in 2023, 40 individuals showed cross-area movement between survey areas. This accounted for about 34.5% of all 116 identified animals in 2023. Amongst these 40 animals, 12 animals (30.0%) were re-sighted in both NWL (including AW) and WL, 25 animals (62.5%) were recorded in both WL and SWL. There were three animals (7.5%) namely NLMM016, NLMM027and WLMM028 which were recorded occurring in all three main survey areas (WL, SWL and NWL) in 2023.

## 2.6.2.1.12 Photo Identification – Residency Pattern

The residency patterns of the dolphin individuals identified under this monitoring programme have been examined. For residency pattern analysis, both seasonal and annual occurrence patterns of identified CWD individuals with 15 or more re-sighting records (since the establishment of the photo-identification database) were carefully examined. "Residents" are defined as individual dolphins that were regularly sighted for at least three consecutive years, while "Visitors" are individuals that were intermittently sighted during the past years since the establishment of the photo-identification database. Seasonal occurrence patterns were also examined to distinguish individuals that occurred year-round (i.e. individual dolphins sighted in all four seasons of a year in at least one of the last two years) or seasonally (i.e. individual dolphins that occurred only in certain season(s) of a year). Therefore, there are four combined classifications of the residency pattern of an individual dolphin theoretically. These four classifications are:

- "Year-round resident" dolphin which appears in Hong Kong waters in all four seasons of a
  year in at least one of the two last years and it was sighted for at least three consecutive years
- "Seasonal resident" dolphin which appears in Hong Kong waters only in certain season(s)
  of a year and it was sighted for at least three consecutive years
- "Year-round visitor" dolphin which appears in Hong Kong waters in four seasons of a year in at least one of the two last years and it was NOT sighted for at least three consecutive years
- "Seasonal visitor" dolphin which appears in Hong Kong waters only in certain season(s) of a year and it was NOT sighted for at least three consecutive years

Up to year 2023, photo-identification records of 64 dolphin individuals that have at least 15 resightings since the establishment of the database were examined. There are 14 animals namely SLMM002, SLMM003, SLMM007, SLMM010, SLMM014, SLMM023, SLMM037, SLMM044, SLMM052, WLMM001, WLMM007, WLMM043, WLMM056 and WLMM079 being defined as year-round residents while 49 animals were considered as seasonal residents. Only one individual, namely SLMM011, out of these 64 individuals is considered as a visitor to Hong Kong waters. However, it should be noted that the low number of dolphins being classified as visitors at present is mainly because of difficulty for visitor dolphins to meet the minimum requirement of at least 15 re-sightings with their intermittent sighting records. The details of the residency pattern of these 64 animals are shown in **Appendix F**.

# **2.6.2.2** Summary of Land-based Theodolite Tracking Monitoring Results

In this reporting period, land-based surveys commenced on 17 January 2023, and concluded on 27 December 2023. A total of 24 days and 144 hours of land-based theodolite survey effort were accomplished, including 12 days and 72 hours from LKC and 12 days and 72 hours from SC (Table 10 of **Appendix F** for summary). A total of 7 CWD groups were tracked from land, for a total of 2.45 hours, all from the LKC station (Table 10, Figure 12 **Appendix F**). CWD sightings were all within 3.3 km of the LKC tracking station. The number of CWD groups sighted from LKC per survey hour was 0.10, compared to 0.07 in 2022, 0.22 in 2021, 0.29 in 2020, 0.33 in 2019, 0.77 in 2018, and 0.89 in 2017. No CWDs were observed from SC. No calves were recorded off LKC during theodolite tracking surveys.

After raw data were filtered, 6 CWD group tracks off LKC fit criteria for movement pattern analyses. From the tracks that fit the criteria, 10 10-minute short-track segments could be

extracted for potential analyses. Based on this information, sample sizes were simply too low for appropriate statistical analyses, and therefore the present data are summarised to show potential trends. Due to low sample size, all data were used to summarise diurnal, annual, and group size patterns and behavioural state activity. Filtered standardised short-track segments were used to summarise movement patterns, similar to 2020, 2021 and 2022 data analysis.

#### 2.6.2.2.1 Time of Day

The diurnal pattern of CWDs was calculated by dividing the total tracking time of CWD groups (prior to filtering short-track data) by the total effort per hour block, and depicted in Figure 13 of **Appendix F**. Off LKC, the highest proportion of CWD tracking time per hour of effort was recorded during the 1100 hour block (9.5%) and the 1200 hour block (10.4%). A small proportion of tracking time per hour of effort was recorded during the 1300 hour block (0.5%). CWDs were not tracked during the 0800, 0900, 1000, 1400, or 1500 hour blocks.

#### 2.6.2.2.2 Time of Year

CWDs were observed from LKC during winter (January and December) and summer (July and August) months, and during both dry and wet seasons of 2023, as depicted in Figure 14 of **Appendix F**. In 2022, 2021 and 2020, CWDs were observed most often during the dry season and during winter; however, CWDs were observed during more months and also observed during the wet season in previous years.

#### 2.6.2.2.3 Group Size

The mean group size of CWDs off LKC prior to filtering tracks was 2.7±2.2, ranging from singletons to a maximum group size of 7 dolphins (Table 11 of **Appendix F**). In comparison, the group size was 2.2±1.6 (range 1-5) in 2022, 3.0±1.8 (range 1-7) in 2021, 1.8±0.9 (range 1-4) in 2020, 1.9±1.2 (range 1-6) in 2019, and 2.6±1.5 in 2018 (range 1-8).

Based on proximity to the SCLKCMP boundary, the mean CWD group size was 3.8±2.5 (n=4, range 1-7) when crossing the marine park boundary. A single group of 2 individuals was observed outside the SCLKCMP boundary and two separate single individuals were observed inside the marine park. The sighting distribution of CWDs relative to group sizes within the SCLKCMP, crossing the SCLKCMP boundary and outside the SCLKCMP are represented in Figure 15, Figure 16 and Figure 17 of **Appendix F** respectively.

After filtering tracks to assign vessel presence/absence, the mean group size of CWDs was  $2\pm1$  (range 1-3) when no vessels were present and  $4\pm3$  (range 1-7) when vessels were present (Table 11 of **Appendix F**).

#### 2.6.2.2.4 Behavioural State

The unknown behavioural category (22%, n=39) was excluded from the following summary of behavioural states. CWDs were recorded foraging (62%) and travelling (38%) during theodolite tracking time, prior to filtering tracks (Figure 18 of **Appendix F**). Milling, resting and socialising behaviour were not recorded off LKC in 2023. Milling and socialising were also not observed off LKC in 2022.

Within the boundary of the SCLKCMP, observed CWD behavioural states included foraging (94%) and travelling (6%) (Figure 19 of **Appendix F**). Outside of the SCLKCMP, the only observed CWD behavioural state was foraging (100%), whereas the only observed behavioural state observed outside of the park in 2022 was travelling. CWDs crossing the SCLKCMP boundary were recorded foraging (57%) and travelling (43%).

#### 2.6.2.2.5 Movement Patterns and Vessel Activity

Plots of vessels, including high-speed ferries, and CWDs continue to show overlap in habitat off LKC throughout the year (Figure 20 of **Appendix F**).

Off LKC in 2023, 206 vessels were recorded during theodolite tracking surveys. Three vessels, including a construction boat, a government boat, and a fishing boat were recorded within 500m of dolphins (based on filtered short-track segments). Mean speed, reorientation rate and linearity for CWDs in the presence and absence of vessels are detailed in Table 12 of **Appendix F**. Due to extremely small sample sizes (no vessel = 3; high speed ferry = 0; other vessels =7), statistical analyses were not possible; and it is cautioned that the apparent high CWD swim speed of "no vessel" vs. the much lower speed of "other vessel" cannot be assessed as a meaningful difference.

## 2.6.2.2.6 Summary of findings of Land-based Theodolite Tracking Monitoring in 2023

- Similar to 2020 through 2022, 2023 provided few samples and the inability to conduct robust statistical analyses as low numbers make most statistical analyses impossible. There is a slight increase in the number of CWDs observed per hour of effort in 2023 compared to 2022, but numbers of CWDs are still lower compared to years prior to 2019. The overall statistics of number of animals in Hong Kong waters showed a slight increase (see section 2.6.2.1.4).
- The number of CWD groups sighted from LKC per survey hour was 0.10, compared to 0.07 in 2022, 0.22 in 2021, 0.29 in 2020, 0.33 in 2019, 0.77 in 2018, and 0.89 in 2017.
- CWDs were observed most often during the late morning and early noon hours (1100, and 1200 hour blocks). This pattern was similar to 2022 and 2021, during which CWDs were observed in the late morning and early afternoon hours (1100, 1300, and 1400 hour blocks) but differed from 2020, when CWDs were observed most often during the 0900 morning hour block and almost none observed after noon. Again, it is cautioned that with so few data in recent years, such hourly sightings cannot be assessed as true diurnal patterns.
- CWDs were observed only during the winter and summer seasons, compared to the highest percentages of CWDs observed during the autumn and winter seasons in 2022 (similar to 2021, 2020, and 2019).
- In 2023, CWDs were recorded in both dry and wet seasons, compared to only the dry season in 2022. In 2021 and 2020, although CWDs were recorded during both oceanographic seasons, they were observed most often during the dry season.
- The maximum CWD group size in 2023 was 7 individuals, the same as 2021, compared to a maximum of 5 individuals in 2022, 4 individuals in 2020, 6 individuals in 2019, and 8 individuals in 2018.
- Overall, waters off Lung Kwu Chau were primarily used for travelling and foraging, which is similar to the high percentages of travelling and foraging observed in 2022, 2021 and 2020.
- CWD groups were observed inside, outside, and crossing the SCLKCMP boundary, and group sizes were larger crossing the park boundary, which differs from recent years when group sizes were larger outside of the park boundary (2022) and larger inside the park boundary (2021). The earlier caveat holds of small sample sizes making statistically-valid comparisons not possible.
- Foraging and travelling were observed for CWDs within and crossing the SCLKCMP boundary, while only foraging was observed outside the SCLKCMP boundary.
- Only three vessels were recorded within 500m of CWD groups in 2023, based on filtered shorttrack segments, which is probably in large part due to low sample size, but could also reflect potential CWD avoidance of vessels off LKC, as noted previously.
- There were no sightings of CWDs off Sha Chau during land-based theodolite surveys in 2023 (the same as 2022, 2021 and 2020).

# **2.6.2.3** Summary of Passive Acoustic Monitoring (PAM) Results

## 2.6.2.3.1 Dolphin Detection per Day

During 30 December 2022 to 4 January 2024, there were five deployment periods of F-POD and C-POD at position A5 for PAM (with the coordinates of 22° 20.299' N, 113° 53.871' E). During the deployment period, CWDs were detected at Location A5 with a total of 116 true dolphin Detection Positive Minutes (DPM), as summarised in Table 13 of **Appendix F**. Dolphins were detected on 43 of 375 days with recording effort (Figure 21 of **Appendix F**).

The activity of CWDs was represented by the percentage of Detection Positive Days (DPD) over total logged days (i.e. DPD %). Over the five deployment periods, DPD % ranged from 4.61% to 27.94%, while the presence of CWD was detected in overall 11.47% of the logged days (as summarised in Table 13 of **Appendix F**). Low dolphin activity was generally recorded from PAM at Location A5 throughout deployment periods in 2023. While comparing with the previously reported values, the overall dolphin occurrence during this reporting period represents a slight decrease in detection rates compared to year 2022 (Table 14 of **Appendix F**).

In terms of solar season, as illustrated in Figure 21 of **Appendix F**, the DPM recorded at winter months were the greatest among all seasons, which accounted for more than half of the total DPM recorded throughout the deployment periods. In spring, the CWD detections dropped and accounted for around a quarter of the total DPM. The CWD detections further decreased in summer and remained low throughout the season. Similar level of CWD detections remained throughout the autumn until the winter in late 2023, with DPM only recorded occasionally on a few days.

## 2.6.2.3.2 Dolphin Diel Pattern

Dolphin detection rates at A5 were overall greater at night than during daytime, with a peak in detections in the 0300 time block and remaining high in the hour block 2100 (as indicated in Figure 22 of **Appendix F**). Relatively high dolphin acoustic detections were also recorded during 1700 to 2300 comparing to mid-night hours (except hour 0300) and daytime hours. The higher night-time detection rate observed during this monitoring period is similar to the diel pattern in dolphin detections observed throughout Hong Kong waters, with higher numbers of detections during night-time and fewest detections in the middle of the day (Munger et al. 2016). In spring, the peak detection hour was at 1900 while peak detection hour in summer was 2300 (Figure 23 of **Appendix F**). In autumn, there was a peak detection at hour 0300 while peak detection hours in winter were 1700 and 2300. A similar diel pattern of more night-time detections than daytime detections was observed throughout the four solar seasons, but it was less apparent in summer when only few detections were recorded.

#### 2.6.3 Discussion on CWD Monitoring Results

CWD monitoring by vessel surveys has been conducted as required during the construction phase from 2015 to 2023, with substantive marine works largely completed since 2021. Supplementary surveys including land-based theodolite tracking and underwater passive acoustic monitoring have provided additional information (such as habitat use of CWDs during day and night) for facilitating a review of the effectiveness of mitigation measures proposed and any need for adaptive management measures. Although the scaled back theodolite monitoring has provided interesting supplemental information, there is lack of adequate survey data for conducting robust analysis. In addition to interpreting monitoring data in relation to identifying any project impacts, the interpretation of data from all three monitoring types can also assist in examining the kinds of issues that need to be considered for management and conservation of CWD in Hong Kong.

## **2.6.3.1** Vessel Line-transect Survey and Photo-identification

From the CWD vessel-based monitoring data, the estimate of overall abundance for 2023 was 40 dolphins, which is somewhat higher than the year before, with a CV of 14.4% (which indicates a good level of precision). It is not surprising to see that the estimate of total dolphin numbers in Hong Kong was a bit higher than the previous year's estimate (35 dolphins in 2022, CV = 15.8%), though a change from one year to the next should never be taken as an indication of long-term trends. Although CWD estimates in Hong Kong were relatively stable or increased somewhat from 2016 to 2018 (Jefferson 2018; Jefferson et al. 2023; 3RS Annual EM&A Report 2018), Hong Kong waters have been showing an overall declining trend in dolphin numbers over much of the last dozen years or so (see Jefferson 2018; Jefferson et al. 2023), and the 3RS EIA predicted shifting of dolphins away to waters outside Hong Kong and a significant effect on numbers in Hong Kong during intensive periods of construction (EIA Report Section 13.9.2). From 2018-2021, there was seawall construction and marine filling in the 3RS works area, as well as reclamation works for the Tung Chung New Town Extension concurrently in North Lantau waters (note that the changes in the size of the different survey areas over the past few decades have been taken into account in the line-transect analysis for this year, with the total area of the NWL area being reduced to account for this loss of potential habitat). Year 2021 was still in the phase of construction that had the most impact on dolphins, though 2022-2023 is now beyond that period. Since the major reclamation work for the 3RS project concluded in 2021, some level of recovery would be expected, and some early signs of that appear to be evident in the data. However, several additional years of similar survey effort will be needed to examine this issue thoroughly. and we should not yet conclude that recovery has begun. In fact, some time delay in seeing an increase in dolphin numbers would be reasonable to expect. In particular, significant recovery would not be expected until after the NLMP comes into effect, which is scheduled to happen in the near future.

Within NWL waters, CWDs have recently been mostly found around the Castle Peak and Lung Kwu Chau areas. A total of 17 dolphin sightings were made (in favourable weather conditions) in NWL including AW transects in 2023, indicating that, while dolphins largely moved away from this area in 2020-2021, they may be starting to return. The seasonal analysis showed that during spring/summer, dolphin numbers are somewhat higher in Hong Kong waters. The 2023 seasonal range is 31 to 65 dolphins. The autumn estimate was the lowest (31 dolphins), while the spring estimate was the highest (65 dolphins), and this indicates that, despite the overall reduction in the average number of dolphins using Hong Kong waters in recent years, there are well over 60 dolphins estimated to be present in Hong Kong in the spring months. The main concern is that dolphin numbers in NWL have decreased quite significantly in the past decade, from around 100 to less than 20 (see Jefferson 2018; Jefferson et al. 2023). Some good news is that in WL and SWL dolphin numbers have remained similar to those in previous years. Past decreases suggested that construction activities in other areas of western Hong Kong waters (which, besides the 3RS works, includes IWMF works at Shek Kwu Chau) and other factors that are affecting dolphins north of Lantau Island may also be affecting their use of the waters south and west of Lantau Island. The potential for cumulative and far-ranging impacts from projects in specific areas is not well understood, and should be investigated in future monitoring efforts (including both those in relation to this project, and other studies outside the 3RS monitoring effort). This would be a particularly acute concern for the West Lantau area, which is known to represent the highestdensity area for CWDs (and has since monitoring efforts began in the mid-1990s) and although not heavily impacted by marine construction in the past few years, the area has nonetheless shown evidence of a decrease in CWD numbers.

In earlier years, concerns had been expressed by some interested stakeholders that dolphin numbers in NWL may have decreased specifically due to hypothesized negative impacts from the re-routing of high-speed ferries (HSFs) to the Speed Control Zone (SCZ) north of Lung Kwu Chau. The analysis covering the entire first year post-SCZ (2016) provided an estimated abundance of 15 dolphins for NWL (refer to the 2016 annual report). The estimate for 2017 for the same area was 14 dolphins. The 2018 estimate was substantially higher at 22 dolphins. Therefore, the drop

in 2019 to 8 dolphins was not likely due to the effects of the SCZ, which had been in operation for several years, but was more likely due to relatively more construction works for the 3RS and concurrent activities (such as changes in overall vessel traffic) in NL waters, or due to other unknown reasons. This belief is further bolstered by the fact that daily HSF trips were down substantially to single-digits in 2020 to 2022 due to COVID-19 impacts, and yet CWD numbers continued to decrease. Whatever the reasons for the fluctuations in numbers of dolphins in the NWL area, there is still no evidence that the SCZ has had any negative impacts on the dolphins.

Concerns were expressed in the 3RS EIA about the potential impacts on the travel corridor/area between both the 3RS Project Area and SCLKCMP, and between CWD hotspots in NWL, NEL and WL, and the concern on the effectiveness of implementing the SkyPier HSF route diversion in alleviating the impacts on CWD travelling areas. Increased CWD sightings from vessel surveys in NEL area during 2018 suggested that a slight rebound in the use of these travel areas by CWDs may have occurred, however this increase has not continued in 2019-2023. HZMB impacts were likely most severe during the period from 2013 to 2016 when construction works were ongoing (a period which saw an overall decline in CWD numbers in Hong Kong - Jefferson 2018), and the increase in CWD numbers seen in 2018 may have been the initial stages of recovery from that period of more intensive HZMB construction impacts. It is likely that the 3RS construction works and other concurrent activities in NL waters in 2019 onwards may have caused dolphins to again move away from these areas, as predicted in the 3RS EIA (Section 13.9.2). Nevertheless, it is noted that previous experience suggests that when construction is completed, and the new marine park goes into effect, a rebound in numbers can again be expected (see Jefferson 2018). Data since 2018 indicate that the travelling areas are still being used, although at a lower level. It should also be kept in mind that dolphins tend to move through these areas relatively quickly and do not generally spend as much time milling as they do in the main foraging/socialising areas, which may further reduce the chance of dolphin sightings.

Regarding the results of photo-identification work, a total of 116 CWD individuals were identified for altogether 359 times from all sightings in 2023, with 69 individuals (around 59.5%) sighted more than once. Amongst the 69 individuals that were re-sighted more than once in 2023, 40 individuals showed cross-area movement between survey areas. This accounted for about 34.5% of all 116 identified animals in 2023. Three animals were recorded occurring in all three main survey areas (WL, SWL and NWL). After a remarkable increase in cross-area movement involving NWL from eight individuals in 2020 to 21 individuals in 2021 followed by a drop to 12 individuals in 2022, the number of identified individuals with cross-area movement involving NWL slightly increased to 15 individuals in 2023. The most frequently re-sighted animals in 2023 were SLMM003, SLMM037, SLMM044 and WLMM056, which were all sighted 11 times. Fourteen identified dolphins were considered as year-round residents of Hong Kong waters in view of their occurrence pattern in all seasons for consecutive years.

#### **2.6.3.2** Land-based Theodolite Tracking

In the accumulation of 12 days and 72 hours of theodolite surveys at the station on LKC in 2023, a total of 7 CWD groups were tracked, and ten groups fit the criteria for movement pattern summary. Due to low sample sizes, as in 2022, 2021 and 2020, we were unable to conduct robust statistical analyses. While there are not enough data for robust statistical analyses of behaviours of CWDs relative to group sizes, presence of vessels, etc., it is clear that habitat use off LKC continues to be less when compared to pre-2019 activity. The present data are summarised to show the apparent present situation and potential trends. During the total of 12 days and 72 hours of theodolite surveys off SC in 2023, no dolphins were observed or tracked, similar to previous years (2018 to 2022).

The sighting rate (CWD groups observed per survey hour) off LKC in 2023 (0.10) reflects a slight increase compared to 2022 (0.07), which is congruent with the small apparent increase in overall numbers based on 2023 vessel surveys. We caution that this potential increase is so small that it is not likely to be biologically significant when comparing this and recent years. However, if the

apparent increase in trend continues for several more years, we may be able to assess that dolphins are indeed using the described area more than in recent years. We also caution that shore-based and acoustic-based (see below) data do not supply estimates of numbers of animals using a certain area. They are instead valuable for assessments of group sizes, behaviors, and movement patterns. See Section 2.6.4.3 (below) for further discussion.

In 2023, all dolphin records were within 3.3 km of the LKC station. Survey data show that the heaviest use of waters north of the SCLKCMP by CWDs was in the late morning and noon hour blocks. CWDs were tracked during both the dry and wet seasons, and in summer and winter seasons. Maximum CWD group size was 7 dolphins, and no calves were observed.

Overall, waters off Lung Kwu Chau continue to be important habitat used for foraging and travelling. Only three vessels were recorded within 500m of CWD groups, which may be due to low sample size or reflect potential CWD avoidance of vessels off LKC. It is hoped that dolphins will return to this former CWD "hotspot" area north of the SCLKCMP as 3RS marine activities have wound down, and yet the shore-based monitoring for use of habitat in this important area is not going to continue in post-construction phase monitoring, which has been agreed by the EPD and fulfilled the requirements under the EM&A Manual.

#### **2.6.3.3** Passive Acoustic Monitoring

The PAM data continue to provide useful information on patterns of dolphin vocalization at night, which has previously been unavailable to us and could not be recorded during the land-based survey conducted during daytime at south of Sha Chau. The diurnal detection of clicks showed a consistent pattern of higher levels in late evening and at night compared with the day, which may be indicative of increased use of echolocation by dolphins during hours of darkness.

The PAM data provide evidence that dolphins are still using the area around south of Sha Chau. In 2023, dolphins were present with especially high incidence during winter (January to February), and less so in other seasons. This lack of detections may represent a reduction or absence of dolphin usage, but it could also be related to high ambient noise levels that reduced the detectability of dolphin signals.

Dolphins were detected more frequently during night-time hours than during the day, and this may be related to nocturnal foraging behaviour. This has been a general trend throughout PAM monitoring in most parts of Hong Kong (Munger et al. 2016). It is also possible that at least a portion of this diel trend is related to dolphins utilising this area more intensively at night than in daytime, because of decreased industrial activity at night.

The PAM in 2023 represents a slight decrease in overall dolphin detection from 2022 (i.e. 11% of days with dolphin in 2023 and 14% of days with dolphins in 2022) but is higher than that in 2021 (i.e. 7% of days with dolphins in 2021). However, it is still relatively lower than the previous years in terms of percentage of days with dolphin detections (i.e. 22% of days with dolphins in 2020 and 38% of days with dolphins in 2019), echoing with the overall decrease of CWD occurrence in North Lantau waters as mentioned above. Nevertheless, the seasonal and diel detection patterns observed in 2023 suggest that dolphins continue to use the Sha Chau area especially in winter, and then primarily at night and in conditions when visual observation is not feasible. This also supplements the land-based theodolite tracking result where no CWD groups have been tracked from Sha Chau theodolite station since 2020.

#### 2.6.4 Conclusions of CWD Monitoring Results

With reference to the aims of construction phase CWD monitoring described in the EM&A Manual (Section 10.2.1.2-4), the key findings of CWD monitoring in 2023 are summarised as follows.

## **2.6.4.1** Effects on the Potential Shift in CWD Travelling Areas and Habitat Use

The latest monitoring data indicate an increase in overall numbers, but mixed trends in use of areas within Hong Kong waters in 2023, as compared to the previous year. The main area of increased use was West Lantau, which showed a substantial increase from the previous year (from 22 to 30 CWDs). As expected and predicted in the 3RS EIA, dolphins likely shifted their activities away from the 3RS construction activities as well as increasing marine works for the Tung Chung New Town Extension project in 2019-2021. Nevertheless, they still used Hong Kong's western waters (primarily SWL and WL) for important ecological activities like foraging and resting, despite the disturbance. Whether a possible increase observed in 2021-2023 is indicative of the start of a long-term dolphin recovery in Hong Kong remains to be seen. An important question now is how much recovery there will be when the marine construction activities end in this area, and the new marine park comes into effect. Future monitoring efforts beyond the construction phase will help to track this.

### **2.6.4.2** Effectiveness of the HSF Speed and Routing Restrictions to the CWDs

As detailed above, we now have eight years of data from the period since the SCZ was implemented, and the information available from both the vessel-based and land-based monitoring indicates that dolphin use of the NWL area has fluctuated from year to year (ranging from 1 to 22 dolphins), with a period of initial increase after the SCZ was put into effect. Due to COVID-19 effects, 2020, 2021 and 2022 were years of significantly decreased HSF activity in general, including in the SCZ area, and yet there was still a reduction in the use of NWL. Therefore, the evidence suggests that the SCZ is not impacting dolphin use of this area, and at the same time, is likely reducing the chances of dolphins being hit by vessels travelling at high speed. Daily SkyPier HSF trips were down substantially from 2020 to 2022 due to COVID-19 (refer to **Section 2.7** and **Table 2.27**), thus there was no substantive new data on CWDs tracked near HSFs over the monitoring period. Observations in 2021-2023 are line with those previous assessments.

Waters around Lung Kwu Chau have historically been a significant year-round habitat, especially for foraging, though 2020 saw a very large decline in use of this area by CWDs. There is no evidence that the observed decline in dolphin use of the HSF SCZ around Lung Kwu Chau was due to ferries being re-routed to that area with slower speeds at the end of 2015. The decline in numbers of dolphins in NWL area is not considered to be linked to HSF re-routings and the SCZ, and the apparent increase in 2021-2023 is considered encouraging.

# **2.6.4.3** Trends in Long Term Monitoring Data

From vessel surveys conducted, though there appears to be a continuous uptick in 2022-2023 following 2021, CWD use of Hong Kong waters was down significantly from the early 2000s. West Lantau waters are still being used as the most important habitat in Hong Kong, as has been the case since CWD monitoring in Hong Kong first started in 1995/1996. It is estimated that 40 dolphins (on average) were found within Hong Kong waters in 2023, which is up somewhat from the last three years (i.e. 35 CWDs in 2022, 34 CWDs in 2021 and 32 CWDs in 2020). Seasonally, the CWD numbers within Hong Kong ranged from about 31-65 in 2023.

Land-based observations and theodolite tracking do not present overall estimates of numbers of dolphins. However, while the 2020, 2021, and 2022 data from LKC showed a reduction in CWD groups sighted and tracked compared to earlier years of 2017-2019, the 2023 data indicate a slight increase in numbers seen and tracked. It is possible that the data from the three years before 2020 represent a partial rebound of dolphin use of waters north of Lantau Island due to cessation of the intensive HZMB construction activities of 2013-2016 (see also Jefferson 2018). In 2022, continuing from 2020, and 2021, the ongoing 3RS Project marine construction activities reduced dolphin use in North Lantau waters in the way that was predicted in the 3RS EIA (Section 13.9.2). Although the major reclamation work for the 3RS project concluded in 2021 and some level of localized CWD rebound may be anticipated, a time delay in rebound could reasonably be expected. As stated above (Section 2.5.3.2), the apparent slight increase in 2023 should not be

taken as unequivocally good news unless the trend continues. Theodolite tracking data will not be gathered in the next several years due to the low detection of CWD by such monitoring method, resulting in a lack of adequate survey data for conducting robust analysis, so the situation remains to be monitored by line transect and dolphin sound data, but without assessment of behavior or fine-scale movement patterns in this former hotspot of dolphin activity. Such arrangement has been agreed by the EPD and fits the requirements under the EM&A Manual.

It is important to remember that dolphins shift around within their habitat from year to year, due to both natural and anthropogenic factors. Thus, evidence of a decrease or increase in numbers from one year to the next should not necessarily be taken as indication of an overall population decline or recovery. Dolphins live for many decades and thus long-term monitoring using consistent methods is needed over an extended period of time in order to evaluate the true conservation status of the CWD population and how its use of Hong Kong waters is being affected.

The CWD construction phase monitoring data so far appear to be generally consistent with findings of the ecological assessments completed during the 3RS EIA, which predicted significant negative impacts during construction, including from the physical loss of habitat due to the reclamation (EIA Report Section 13.9.1). No unexpected ecological impacts on CWDs have been identified, while the increase in abundance in 2021-2023, though small, is encouraging nonetheless. However, it should be noted that dolphins shifting away from NL and nearby waters was anticipated during 3RS construction works, due to activities such as intensive seawall construction and marine filling activities, as had occurred in 2020 and early 2021, and this is broadly in line with EIA predictions.

In the 3RS EIA and as reported in the last several Annual EM&A Reports, it was predicted that dolphins would shift away from portions of their home range that are experiencing intense human activities and that appears to have been the case in 2020 as seawall works and marine filling activities intensified. These impacts are anthropogenic disturbances and therefore are of conservation concern; however, they are likely temporary and reversible and previous studies have supported that dolphin numbers can be expected to recover over the long-term, after completion of works (assuming that the habitat is properly protected and still of adequate quality – Jefferson 2018). EM&A monitoring for the 3RS will continue in 2024 as post-construction monitoring and then a further 12 months operation phase monitoring after the designation of NLMP, with the goal being to continue the examination of the trend of dolphin abundance after the completion of 3RS construction.

Monitoring of dolphins must continue in order to allow us to evaluate the full extent of impacts and any recovery that occurs in the future, and stabilization or an increase in abundance of Hong Kong CWDs is desirable for the long-term health of this population. As dolphin numbers in Hong Kong appeared to be going down in 2020, and remained much lower than in the past in 2021-2023, though with a slight increase compared with 2020, diligent monitoring will continue as post-construction monitoring and operation phase monitoring under the 3RS EM&A programme, and under Rebound Survey initiated by AA as an additional initiative for the monitoring of CWD. At this stage of 3RS construction, all recommended mitigations have been implemented and although impacts were occurred, these were temporary and within previously predicted patterns. As land formation is completed in the first quarter of 2023, and the proposed NLMP will come into effect on 1 November 2024, the situation should be improved. The effectiveness of the mitigation measures will be kept under review over the next few years, as post-construction phase CWD monitoring continues.

# 2.6.4.4 International Cetacean Expert's Observation and Recommendations from the 3RS Project Long-term Monitoring Effort

In terms of the long-term conservation and management of the CWD population and specifically that portion that uses Hong Kong waters, it is important for numbers to stabilize now that marine construction has substantially completed, as the evidence suggests both that dolphins are using

Hong Kong waters less intensively and that the overall population is declining (see Huang et al. 2012; Jefferson 2018; Jefferson et al. 2023). The intensive evaluation of construction methods that was undertaken in the EIA process for this project (which resulted in methods that are less harmful to dolphins, such the use of Deep Cement Mixing for site stabilization) should be seen as an example and should be emulated in future impact assessments. Importantly, there is also ongoing evaluation of the impacts, and the ability to re-evaluate, if any significant, unexpected impacts appear to be occurring. One issue of note for managers and enforcement personnel is that land-based tracking data identified 11 instances where HSF were going >15knots in the designated Vessel SCZ (Figure 20 of **Appendix F**) although monitoring the speed of HSF is not an objective of land-based theodolite tracking.

A major goal for Hong Kong (primarily the Agriculture, Fisheries and Conservation Department) and mainland management authorities should be to establish effective measures including, but not limited to, protection of critical foraging and breeding habitat, as well as important travel routes for the dolphins. Most importantly, the area along the entire west coast of Lantau Island has consistently been used as prime habitat by CWDs for the past several decades, but unfortunately numbers there have declined recently. This region has been confirmed by the current 3RS Project monitoring efforts to remain as the most important habitat for dolphins in Hong Kong, based on densities of CWD use. This has also been confirmed by the recent computer modeling study of dolphin habitat in Hong Kong (Jefferson et al. 2023), but most of the area still remains unprotected. The formation of Marine Parks/ Reserves for CWDs in this area should be seen as an extremely high priority for protecting critical dolphin habitat for the future of CWDs in Hong Kong. If it is used properly, the knowledge learned from the 3RS project, as well as the funding support and attention given the CWDs from this project (e.g., through the Marine Ecology Enhancement Fund), can be very helpful for management authorities in achieving the important long-term goal of stabilizing the CWD population, and ensuring its long-term health and survival.

# 2.6.5 Site Audit for CWD-related Mitigation Measures

During the reporting period, silt curtains were in place by the contractors for marine filling and dolphin observers were deployed by contractors in accordance with the Marine Mammal Watching Plan. Teams of at least two dolphin observers were deployed by contractors for continuous monitoring of the Dolphin Exclusion Zone (DEZ) for seawall construction and armour rock laying works in accordance with the DEZ Plan. Training for the dolphin observers on the implementation of MMWP and DEZ monitoring was provided by the ET prior to the aforementioned works, with the training records kept by the ET. From the contractors' MMWP observation records, no dolphins or other marine mammals were observed within or around the silt curtains during the reporting period. As for DEZ monitoring records, no dolphins or other marine mammals were observed within the DEZs in this reporting period. These contractors' records were audited by the ET during site inspection.

# 2.7 Sewage Flow Monitoring

The annual sewage flow monitoring has been started since June 2021 and completed in December 2022. As the purpose of the sewage flow monitoring is to inform the timing of commencement of planning for the sewer upgrading works, and considering that AAHK has initiated to start planning its construction, the annual monitoring was completed in 2022. The daily average flows data can be referred to the previous Annual EM&A Report No.7.

In accordance with Section 6.2.1.2 of the Manual, it was recommended to start routine monitoring of hydrogen sulphide ( $H_2S$ ) levels for the sewerage system of 3RS upon commencement of operation of the project. During the reporting period, the  $H_2S$  monitoring proposal was submitted to EPD in April 2023 and accepted by EPD in June 2023.

# 2.8 Landscape and Visual Mitigation Measures

Implementation of applicable landscape and visual mitigation measures (reference to the environmental protection measures CM1 – CM10 in **Appendix C**) was monitored in accordance with the Manual and the Landscape & Visual Plan. All measures undertaken by both the contractor and the landscape contractor during the construction phase and first year of the operation phase are audited by a landscape architect, as a member of the ET, on a regular basis to ensure compliance with the intended aims of the measures.

Site inspection and audit are undertaken as necessary in the construction and operation phase in accordance with the Monitoring Programme for Landscape and Visual as shown in **Table 2.20**. In case of non-conformity, specific recommendations will be made, and actions will be proposed in accordance with the Event and Action Plan as shown in **Table 2.21**. No non-conformity was recorded during the reporting period.

Table 2.20: Monitoring Programme for Landscape and Visual

		•		
Stage	Monitoring Task	Monitoring Report	Form of Approval	Frequency
Detailed Design	Checking of design works against the recommendations of the landscape and visual impact assessments within the EIA shall be undertaken during detailed design and tender stage, to ensure that they fulfil the intention of the mitigation measures. Any changes to the design, including design changes on site shall also be checked.	Report by AAHK / PM confirming that the design conforms to requirements of EP.	Approved by Client	At the end of the Detailed Design Phase
Construction	Checking of the contractor's operations during the construction period.	Report on Contractor's compliance, by ET	Counter signature of report by IEC	Weekly
Establishment Works	Checking of the planting works during the twelve-month Establishment Period after completion of each batch of transplanting works.	Report on Contractor's compliance, by ET	Counter signature of report by IEC	Every two months
Long Term Management (10 year)	Monitoring of the long-term management of the planting works in the period up to 10 years after completion of each batch of transplanting works.	Report on Compliance by ET or Maintenance Agency as appropriate	Counter signature of report by Management Agency	Annually

Table 2.21: Event and Action Plan for Landscape and Visual

Action Level				
	ET	IEC	AAHK / PM	Contractor
Design Check	Check final design conforms to the requirements of EP and prepare report.	Check report. Recommend remedial design if necessary.	Undertake remedial design if necessary.	
Non- conformity on one occasion	Identify source. Inform IEC and AAHK / PM. Discuss remedial actions with IEC.	Check report. Check Contractor's working method. Discuss with ET and Contractor on	Notify Contractor. Ensure remedial measures are properly implemented.	Amend working methods to prevent recurrence of non-conformity.

**Action** 

**Event** 

Event Action Level		Action		
	AAHK / PM and Contractor. Monitor remedial actions until rectification has been completed.	possible remedial measures. Advise AAHK / PM on effectiveness of proposed remedial measures. Check implementation of remedial measures.		Rectify damage and undertake additional action necessary.
Repeated Non- conformity	Identify source. Inform IEC and AAHK / PM. Increase monitoring frequency. Discuss remedial actions with IEC, AAHK / PM and Contractor. Monitor remedial actions until rectification has been completed. If non-conformity stops, cease additional monitoring.	Check monitoring report. Check Contractor's working method. Discuss with ET and Contractor on possible remedial measures. Advise AAHK / PM on effectiveness of proposed remedial measures. Supervise implementation of remedial measures.	Notify Contractor. Ensure remedial measures area properly implemented.	Amend working methods to prevent recurrence of non-conformity. Rectify damage and undertake additional action necessary.

Note:

(1) For PM in **Table 2.20**, refers to Project Manager only.

# 2.8.1 The Implementation Status of the Environmental Protection Measures

The implementation status of the environmental protection measures is summarised below in **Table 2.22**. For trees which were managed by the Project during the reporting period, relevant measures have been implemented by Contracts 3302, 3508, and 3801.

Table 2.22: Implementation Status of the Environmental Protection Measures

Landscape and Visual Mitigation Measures during Construction Implementation Status	Implementation Status	Relevant Contract(s) in the Reporting Period
CM1- The construction area and contractor's temporary works areas shall be minimised to avoid impacts on adjacent landscape.	The implementation of mitigation measures were checked by ET during weekly site inspection and clarified by the Contractors during the monthly Environmental	All works contracts
CM2 – Reduction of construction period to practical minimum.	Management Meetings. Implementation of the measures CM5, CM6 and CM7 by Contractors was observed.	
CM3 – Phasing of the construction stage to reduce visual impacts during the construction phase.		
CM4 – Construction traffic (land and sea) including construction plants, construction vessels and barges shall be kept to a practical minimum.		
CM5 – Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours.	-	

Landscape and Visual Mitigation Measures during Construction Implementation Status	Implementation Status	Relevant Contract(s) in the Reporting Period
CM6 – Avoidance of excessive height and bulk of site buildings and structures	-	
CM7 – Control of night-time lighting by hooding all lights and through minimisation of night working periods		
CM8 – All existing trees shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas	Tree Protection Specifications have been provided in the relevant Contract Specifications respectively for implementation by the Contractors under the Project.  The Contractors' performance on the implementation of the trees maintenance and protection measures were observed and checked by the ET weekly during construction period.	3302, 3508, 3801
CM9 – Trees unavoidably affected by the works shall be transplanted where practical. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, if applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme	Tree Transplanting Specifications have been provided in the relevant Contract Specifications respectively for implementation by the Contractors under the Project where trees will unavoidably be affected by the construction works.  The Contractors were required to submit Method Statements for tree transplanting prior to the transplanting works. Tree inspections were conducted by ET to check the tree transplanting works implemented by the Contractors on site.  The Contractors' performance on the implementation of trees maintenance and protection measures on transplanted trees were observed and checked by the ET bimonthly during the 12-month establishment period after the completion of each batch of transplanting works.  Long term management of the transplanted trees were currently monitored by ET annually.	3508
CM 10 – Land formation works shall be followed with advanced hydroseeding around taxiways and runways as soon as practical	The advanced hydroseeding works around taxiways and runways were partially completed at this stage and would resume in next phase.	To be implemented
OM7- Compensatory tree planting for all felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under the relevant technical circulars. (1)	The two batches of compensatory trees were planted and the bi-monthly site inspection for the 12-month establishment period was commenced. During the reporting period, the bi-monthly site inspection was undertaken in June, August, October and December 2023.	ААНК

Note:

(1) AAHK is the management and maintenance agency of the compensatory trees. Tree Felling Application is not required for 3RS project.

The 3RS Project is a mega project covering a number of detailed design contracts and many construction works contracts in different design and construction stages. Works areas would be taken up by different 3RS works contracts in stages with the commencement of construction, and the landscape and visual elements of these contract of the 3RS Project also designed and implemented at various stages of the Project.

Broad-brush tree survey and assessment were undertaken for the entire 3RS Project during EIA stage. After that, detailed design consultants had conducted more detailed tree surveys and assessments so that the landscape and visual elements were refined and aligned with their respective design areas. With the award of specific 3RS construction works contracts, the respective contractors would conduct their own detailed tree survey and assessment as necessary, to confirm the tree status at the time of their possession of the site. The tree survey and assessment from the respective contractors were taken as the baseline of that particular piece of works area before being affected by 3RS Project. Some of the tree group areas as identified in approved EIA report were affected by 3RS construction works as of 2023. Environmental monitoring and audit work which included the auditing of contractor's work in landscape and visual aspects such as tree preservation, protection and transplantation was implemented in accordance with the updated construction programme, the relevant requirements of the EP, the Updated EM&A Manual and the Landscape & Visual Plan.

The total number of retained trees, transplanted trees and to-be-transplanted trees under the management of Project are summarized in **Table 2.23**. The tree schedule updated as of end 2023 is shown in **Appendix H**.

Table 2.23: Summary of the Number of Retained, Transplanted and To-be-transplanted Trees as of December 2023

Contract No.	Retained (nos.)	Transplanted (nos.)		To-be-transplanted
		Establishment Period	Maintenance Period	(nos.)
3302 <sup>(1)</sup>	0	0	0	0
3503 <sup>(2)</sup>	0	0	9	0
3508	34	0	12	0
3801 <sup>(3)</sup>	3	0	5	0
Grand Total	37	0	26	0

Note:

- (1) A work area of Contract 3302 including 9 retained trees was handed over to AAHK in September 2023.
- (2) Contract 3503 was completed and the 9 transplanted trees, including T835, T836, T838, T812, T814, T815, T829, T830 and T831, were handed over to AAHK in February 2022.
- (3) The 5 transplanted trees, including CT276, CT1253, CT1194, CT1794 and CT1795, were handed over to other management agencies. Details of the management agency are presented in **Table 2.25**.

**Table 2.24** lists the affected tree ID together with the reasons for change of tree status between the tree schedules as of end 2022 and end 2023.

The total number of retained trees of the Project as of end 2023 was 37. Compared to 49 nos. of retained trees for existing works contracts reported in the tree schedule as of end 2022, the change in number was due to the following reasons:

- A tree under Contract 3508 was found fallen due to structural problem. (-1 no).
- Some trees under Contract 3302 were handed over to AAHK. (-9 nos).
- The trees under Contract 3508 were confirmed dead due to unrecoverable health problems.
   (-2 nos)

Table 2.24: Summary of the Tree Status Changes between end 2022 and end 2023

Tree ID(s)	Contract	Status as of end 2022	Status as of end 2023	Remarks	Impacts to Total Tree Number
T1381A	3508	Retain	Fell	1 no. of tree was found fallen due to structural problem.	Retain: - 1 no.
T01, T03, T04, T07, T08, T09, T10, T11, T12	3302	Retain	Retain	9 nos. of trees were handed over to AAHK.	Retain: - 9 nos.
T1382A, T1391A	3508	Retain	Fell	2 nos. of trees were confirmed dead and then removed due to unrecoverable health condition.	Retain: - 2 nos.

In this reporting period, the cumulative total number of transplanted trees under the Project remained unchanged (i.e., 26) comparing to the previous reporting period. The details of transplanted trees are summarised in **Table 2.25**. Photos of the transplanted trees are presented in **Table 2.26**.

During the reporting period, the compensatory trees bi-monthly site inspections for 12-month establishment period were undertaken in June, August, October and December 2023.

Table 2.25: Details of the Transplanted Trees

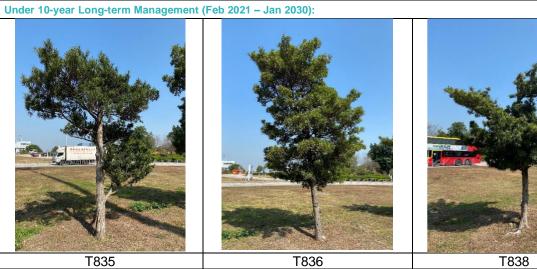
Tree ID	Transplant Date	Management Stage	Management Agency	Remarks				
CT276	3 May 2018	Long Term Management period Jun 2019 – May 2028	Southern Landside Petrol Filling Station	Establishment Period was completed. Next inspection will be conducted in February 2024.				
CT1253	4 May 2018	Long Term Management period Jun 2019 – May 2028	1 0010day 2027.					
T835	22 Jan 2020	Long Term Management period Feb 2021 – Jan 2030	Establishment Period was completed. Next inspection will be conducted in February 2024.					
T836	13 Dec 2019	Long Term Management period Feb 2021 – Jan 2030						
T838	22 Jan 2020	Long Term Management period Feb 2021 – Jan 2030						
T812	21 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	Establishment Period was completed. Next inspection will be conducted in December 2024.					
T814	20 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	Long Term Management AAHK period					
T815	15 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	ААНК					
T829	18 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	AAHK	_				

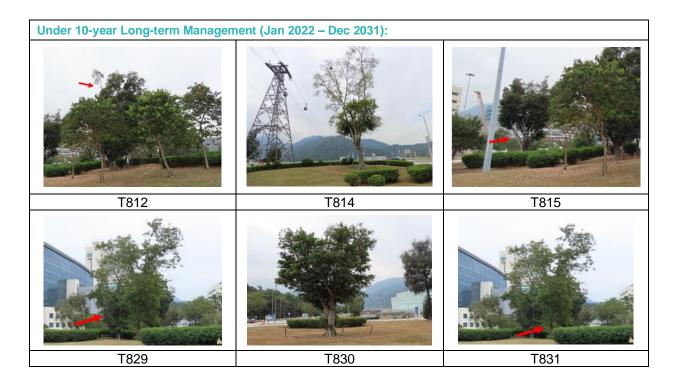
Tree ID	Transplant Date	Management Stage	Management Agency	Remarks			
T830	14 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	ААНК				
T831	19 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	ААНК	_			
T1493	6 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	Establishment Period was completed. Next inspection will be conducted in July 2024.			
T1494	6 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508				
T1495	10 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	_			
T1496	5 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	_			
T1497	5 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	_			
T1498	29 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	_			
T1499	29 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	_			
T1500	30 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	_			
T1501	30 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	_			
T1502	5 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	_			
T1503	6 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	_			
T1504	24 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508				
CT1194	4 May 2018	Long Term Management period Jun 2019 – May 2028	Southern Landside Petrol Filling Station	Establishment Period was completed. Uprooted and collapsed due to Typhoon Higos on 18 August 2020. Tree removal was conducted as recommended by tree specialist of the contractor of Southern Landside Petrol Filing Station.			

Tree ID	Transplant Date	Management Stage	Management Agency	Remarks
CT1794	3 May 2018	Long Term Management period Jun 2019 – May 2028	AsiaWorld-Expo	Establishment Period was completed. The tree within the land parcel was acquired by the government for construction of emergency hospital to handle COVID19 pandemic at AsiaWorld-Expo. The tree was felled in late 2020.
CT1795	3 May 2018	Long Term Management period Jun 2019 – May 2028	AsiaWorld-Expo	Establishment Period was completed. The tree within the land parcel was acquired by the government for construction of emergency hospital to handle COVID19 pandemic at AsiaWorld-Expo. The tree was felled in late 2020.

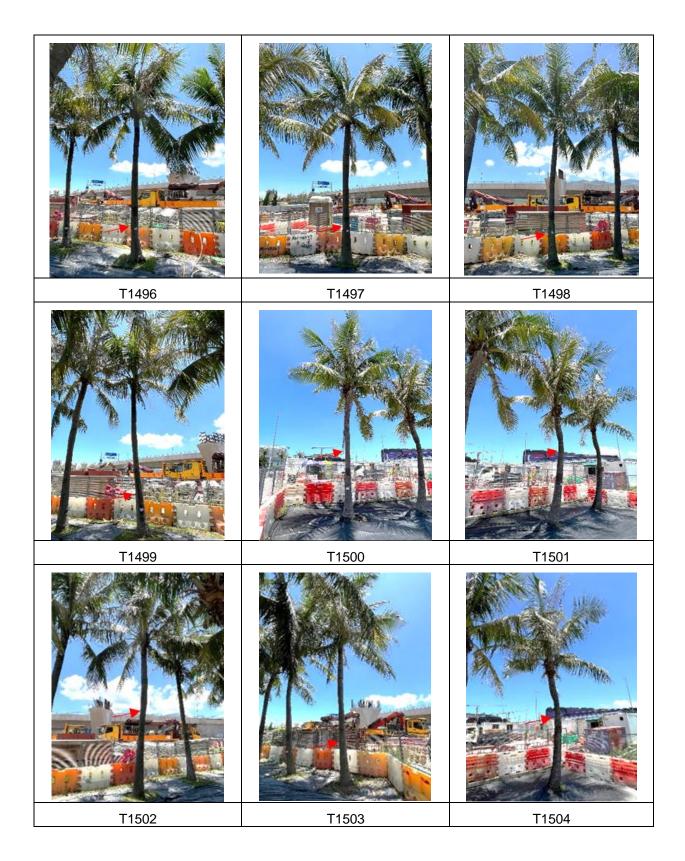
Table 2.26: Photos of the Existing Transplanted Trees in the Reporting Period











# 2.9 Environmental Site Inspection

Site inspections of the construction works were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Project. Bi-weekly site inspections were also conducted by the IEC. Besides, *ad-hoc* site inspections were

conducted by ET and IEC if environmental problems were identified, or subsequent to receipt of an environmental complaint, or as part of the investigation work. During the reporting period, ET conducted 900 sessions of site inspection and 79 sessions of ah-hoc site inspections. These site inspections provided a direct means to reinforce the specified environmental protection requirements and pollution control measures in construction sites.

During site inspections, environmental situation, status of implementation of pollution control and mitigation measures were observed both within the site area as well as outside the project sites which was likely to be affected, directly or indirectly, by the site activities. Environmental documents and site records, including waste disposal record, maintenance record of environmental equipment, and relevant environmental permit and licences, were also checked on site. Observations were recorded in the site inspection checklist and passed to the contractor together with the appropriate recommended mitigation measures where necessary in order to advise contractors on environmental improvement, awareness and on-site enhancement measures. The observations were made with reference to the following information during the site inspections:

- The EIA and EM&A requirements;
- Relevant environmental protection laws, guidelines, and practice notes;
- The EP conditions and other submissions under the EP;
- Monitoring results of EM&A programme;
- Works progress and programme;
- Proposal of individual works;
- Contract specifications on environmental protection; and
- Previous site inspection results.

Good site practices were observed in site inspections during the reporting period. Advice was given when necessary to ensure the construction workforce were familiar with relevant procedures, and to maintain good environmental performance on site. Regular toolbox talks on environmental issues were organized for the construction workforce by the contractors to ensure understanding and proper implementation of environmental protection and pollution control mitigation measures. Environmental briefings on EP and EM&A requirements were also provided to the new contracts by ET.

Summary of implementation status of the environmental mitigation measures for the construction phase of the Project during the reporting period is provided in **Appendix C**.

## 2.10 Audit of the SkyPier High Speed Ferries

The Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier (the SkyPier Plan) was submitted to the Advisory Council on the Environment (ACE) for comment and subsequently submitted to and approved by EPD in November 2015 under EP Condition 2.10. The approved SkyPier Plan is available on the dedicated website of the Project. In the SkyPier Plan, AAHK has committed to implementing the mitigation measure of requiring HSFs of SkyPier travelling between HKIA and Zhuhai / Macau to start diverting the route with associated speed control across the area, i.e. SCZ, with high CWD abundance. The route diversion and speed restriction at the SCZ have been implemented since 28 December 2015. The IEC has also performed audit on the compliance of the requirements as part of the EM&A programme. The latest summary of key audit findings in the reporting period is presented in **Table 2.27**.

According to the approved SkyPier Plan, dolphin habitat index has been reviewed in the reporting period based on findings of the AFCD's marine mammals monitoring report 2022-23 and historical dolphin density records. Grids for dolphin hotspot remained largely unchanged, thus the HSF route diversion arrangement remained unchanged.

Due to the operational needs, the SkyPier HSF services to/from Zhuhai has been suspended. In total, 285 ferry movements HKIA SkyPier and Macau were audited in the reporting period. The daily movements of all SkyPier HSFs in the reporting period, including those not using the diverted route, ranged between 5 and 54, which falls within the maximum daily cap number of 125. The annual daily average of all SkyPier HSF movements in the reporting period was 37, which falls within the annual daily average cap of 99 SkyPier HSF movements.

The 285 ferry movements audited were all travelled through the SCZ with average speeds at or below 15 knots, which complied with the SkyPier Plan. Two deviation cases were recorded during the reporting period. One deviation case regarding the ferry movement not entered/ left the SCZ through the gate access points was recorded in May 2023. The case was due to strong tidal wave and current. The other deviation case was recorded in July 2023. It was related to a ferry movement with deviation from the diverted route. An investigation was carried out and it was found that the deviation was due to safety reason to avoid hitting a number of floating objects.

Insufficient AIS data were received from some HSFs during the reporting period. After investigation, it was found that the data missing due to (1) signal interference; and (2) AIS equipment malfunction. Ferry operators were requested to provide the radar track photo / video which indicated the vessel entered the SCZ through the gate access points and there was no speeding in the SCZ. Ferry operators' explanations were accepted. The ferry operators were reminded to maintain good condition of the AIS transponders.

Table 2.27: Summary of Key Audit Findings against the SkyPier Plan

Key Audit Findings	Jan -23	Feb -23	Mar -23	Apr -23	May -23	Jun -23	Jul -23	Aug -23	Sep -23	Oct -23	Nov -23	Dec -23
Total number of HSF movements recorded and audited for HSF to/from Macau	17	16	24	24	28	26	24	26	24	26	26	24
Use diverted route and enter / leave SCZ through Gate Access Points	17	15	24	24	27	26	24	26	24	26	26	24
No. of SkyPier HSFs in compliance with average speed within 15 knots in SCZ	17	16	24	24	28	26	24	26	24	26	26	24
Range of daily movement (capped daily average of 99 for all SkyPier HSFs)	5- 24	22- 25	23- 29	26- 36	35- 38	37- 40	33- 48	16- 50	42- 54	6- 52	49- 52	44- 54

Source: Excerpted from Monthly and Quarterly EM&A Reports

#### 2.11 Audit of the Construction and Associated Vessels

The audit of construction and associated vessels in accordance with the Marine Travel Route and Management Plan for Construction and Associated Vessel (MTRMP-CAV) has started since August 2016. ET has audited relevant information including AIS data, vessel tracks and other relevant records provided by the contractors to ensure that the contractors were fully complied with the requirements of the MTRMP-CAV. The Maritime Surveillance System (MSS) was launched in March 2017. The MSS automatically recorded deviation cases such as speeding, entering no entry zone, and not travelling through designated gates. ET conducted checking to ensure the MSS records all deviation cases accurately. The 3-month rolling programme submitted by contractors for construction vessel activities were also checked every month to ensure the

logistic of construction vessels were well planned to achieve a practicable minimum. The IEC has also performed audit on the compliance of the requirements as part of the EM&A programme.

A total of 2 skipper training workshops were held by ET during the reporting period with 3 captains of construction vessels associated with the 3RS contracts to familiarise them with the predefined routes, general education on local cetaceans, guidelines for avoiding adverse water quality impact, the required environmental practices / measures while operating construction and associated vessels under the Project, and guidelines for operating vessels safely in the presence of CWDs. Another 11 skipper training workshops were held with 15 captains by contractors' Environmental Officers and competency tests were conducted subsequently with the trained captains by ET. In addition, ET participated Marine Management Liaison Group meetings to assist and resolve any marine issues which might be encountered under the Project.

# 2.12 External Stakeholder Engagement

In accordance with the EP's requirements of setting up Community and Professional Liaison Groups, the AAHK has been continuing to proactively reach out to a wide spectrum of external stakeholders to update them on the environmental aspects of the Project and to seek their insights and views. There were continuous exchanges with the local communities, relevant professionals, experts, and other stakeholders. Below are highlights of the engagement activities held in 2023.

#### 2.12.1 Community Liaison Groups

In order to enhance transparency and communication with the community in a proactive way, five Community Liaison Groups (CLGs) were set up in 2012 in the neighbouring districts of HKIA, namely Islands, Kwai Tsing, Shatin, Tsuen Wan and Tuen Mun. The CLGs are comprehensive platforms for the AAHK to update the community leaders about the detailed design, progress of construction and operation, and environmental monitoring and audit results of the Project, and listen to their views on various topics related to HKIA and the Project, including environmental matters. The AAHK also leverages on the CLGs to exchange views with the community on the latest airport developments, hence enhancing airport services and helping to contribute to the betterment of these districts. The CLGs have a total of about 130 members involving district councillors and community leaders. In 2023, two meetings cum airport visits were held in February and August respectively. Project information including the latest development of the 3RS Project, environmental monitoring and audit results, and details on the implementation of environmental and ecological enhancement measures were presented in the meeting.

#### 2.12.2 Professional Liaison Group and Green Non-Governmental Organizations

The Professional Liaison Group, comprising 19 members of relevant professionals and experts, was set up to enhance transparency and communication, as well as enquiries and complaints-handling on all environmental issues related to the Project; and to promote community cooperation and participation and implementation of suitable local environmental enhancement works that are included in the Environmental Permit. In 2023, two meetings cum airport visits were held in April and November respectively. Project information including the latest development of the 3RS Project, environmental monitoring and audit results, and details on the implementation of environmental and ecological enhancement measures were presented in the meeting.

Roundtable meetings with Green Non-Governmental Organizations (NGOs) were proactively arranged to facilitate exchanges on environmental issues related to the Project. Updates of the Project, including environmental monitoring and audit results and details on the implementation of environmental and ecological enhancement measures were shared with the participants. In 2023, two meetings cum airport visits were held in April and November respectively.

## 2.12.3 Fishermen Liaison

In an effort to deepen outreach to the fishermen community, a dedicated Fishermen Liaison Group was set up in November 2016 to share updates on environmental matters and progress of construction and operation with the chairmen and leaders of fishermen groups and associations. In 2023, one meeting cum airport visit was held in June.

#### 2.12.4 Other Stakeholders

The AAHK attended a Legislative Council Panel on Economic Development meeting in July 2023 to share with members updates on the development of the 3RS Project and submitted another update paper in December 2023. Furthermore, the AAHK submitted a paper to the Advisory Council on the Environment (ACE) in July 2023 reporting an update on the implementation of the environmental mitigation and enhancement measures in association with the 3RS Project.

To encourage two-way communications with stakeholders and the community, a dedicated telephone hotline and email has been set up since December 2015. No enquiry was received via the telephone hotline and sixteen enquiries were received via the dedicated email in 2023.

## 2.13 Review of the Key Assumptions Adopted in the EIA Report

With reference to Appendix E of the Manual, it is noted that the key assumptions adopted in approved EIA report for the construction phase are still valid and no major changes are involved. The environmental mitigation measures recommended in the approved EIA Report remain applicable and shall be implemented in undertaking construction works for the Project.

# 2.14 Key Environmental Issues for the Coming Reporting Period

The key environmental issues for the Project in the coming reporting period are expected to be associated with construction activities including:

- Generation of dust from construction works and stockpiles;
- Noise from operating equipment and machinery on-site;
- Generation of site surface runoffs and wastewater from activities on-site;
- Sorting, recycling, storage and disposal of general refuse and construction waste;
- Reuse of treated marine sediments from piling and excavation works; and
- Management of chemicals and avoidance of oil spillage on-site.

The implementation of required mitigation measures by the contractors will be monitored by the ET.

## 3 Report on Non-compliance, Complaints, Notifications of Summons and Prosecutions

#### 3.1 Compliance with Other Statutory Environmental Requirements

During the reporting period, environmental related licenses and permits required for the construction activities were checked. No non-compliance with environmental statutory requirements was recorded.

### 3.2 Analysis and Interpretation of Complaints, Notification of Summons and Status of Prosecutions

#### 3.2.1 Complaints

Twelve environmental complaints were received in the reporting period. Ten environmental complaints were related to air quality and one environmental complaint was related to noise and one environmental complaint was related to air quality and noise. The environmental complaints were attended and investigations were conducted by the ET in accordance with the Manual and the Complaint Management Plan. The summary of the complaints and analysis is presented in **Appendix G**.

#### 3.2.2 Notifications of Summons or Status of Prosecution

No notification of summons or prosecution was received in the reporting period.

#### 3.3 Cumulative Statistics

Cumulative statistics on exceedance, non-compliance, complaints, notifications of summons and status of prosecutions are summarized in **Appendix G**.

#### 4 Conclusion and Recommendation

In the reporting period from 1 January 2023 to 31 December 2023, the EM&A programme has been implemented in accordance with the Manual of the Project. The EM&A works carried out during the reporting period include construction dust and noise measurements, general impact water quality monitoring, post-construction phase water quality monitoring, vessel line-transect surveys, land-based theodolite tracking surveys supplemented with passive acoustic monitoring for CWD monitoring, waste monitoring, as well as environmental site inspections and landscape and visual monitoring for the Project's construction works.

The monitoring results in relation to the construction dust, construction noise, construction waste and CWD did not trigger their corresponding Action or Limit Levels during the reporting period. No non-conformity was recorded for landscape and visual monitoring in the reporting period.

For general impact water quality monitoring, the monitoring results for turbidity obtained during the reporting period complied with the corresponding Action and Limit Levels stipulated in the EM&A programme. For DO and SS, some of the monitoring results triggered the relevant Action or Limit Levels during the reporting period. Relevant investigation and follow-up procedures were conducted according to the EM&A programme. The investigation findings concluded that the cases were not related to the Project. To conclude, the construction activities in the reporting period did not introduce adverse impact to all water quality sensitive receivers.

With the completion of land formation works in the first quarter of 2023, termination of the construction phase water quality impact monitoring was proposed to EPD with approval granted on 30 October 2023 and the general impact water quality monitoring was terminated after 31 October 2023. Post-construction phase water quality monitoring exercise was carried from 14 November 2023 to 9 December 2023. The overall post-construction phase water quality monitoring result did not reveal significant changes of the water quality when comparing with baseline water quality monitoring. Besides, during general impact water quality monitoring, while outliers were observed, investigations had been carried out according to the relevant requirements of the Updated EM&A Manual whenever such outliners triggered the Action or Limit Levels, and the investigation findings concluded that these outliers were not due to the Project but could be attributed to natural fluctuation/ seasonal variations/ external factors in the vicinity. Details of the investigation findings have been documented in the relevant Construction Phase Monthly EM&A Reports. Therefore, it can be concluded that the marine works of the Project during construction phase did not cause deterioration in or adverse impacts on the marine water quality surrounding the Project site.

A total of around 5384.9 km survey effort was conducted for the vessel line-transect monitoring for CWDs during the 12-month monitoring period. A total of 160 groups of 542 CWDs were sighted in NWL, AW, WL and SWL survey areas. No CWDs were recorded in the NEL survey area. The combined encounter rates by number of dolphin sightings and by number of dolphins were 3.06 and 10.35 respectively. No triggering of Action and Limit Levels for encounter rates were recorded during the construction phase during 2023. Overall abundance of CWD in Hong Kong western waters was estimated at 40 dolphins in 2023 from line-transect analysis. CWD occurrence from land-based surveys around Lung Kwu Chau was only recorded during winter and summer seasons. Waters off Lung Kwu Chau continue to be habitat used primarily for travelling and foraging. Passive acoustic monitoring provides evidence that dolphins continued using the area around south of Sha Chau in 2023, especially in winter, and then primarily at night.

The construction phase CWD monitoring was continued until the end of December 2023 so as to collect a full-year set of monitoring data to facilitate evaluation of CWD abundance on an annual

basis. A post-construction phase CWD monitoring includes vessels line-transect survey would be carried out for 12 months, starting from January 2024.

The treatment and backfilling works for all marine sediment excavated from the areas without ground improvement works by Deep Cement Mixing were deemed to be completed in 2022. On the other hand, excavation, treatment and backfilling works for marine sediment excavated from reclaimed land areas with ground improvement works by Deep Cement Mixing were still undergoing during the reported period.

The annual sewage flow monitoring has been started since June 2021 and completed in December 2022. As the purpose of the sewage flow monitoring is to inform the timing of commencement of planning for the sewer upgrading works, and considering that AAHK has initiated to start planning its construction, the annual monitoring was completed in 2022. The daily average flows data can be referred to the previous Annual EM&A Report No.7.

In accordance with Section 6.2.1.2 of the Manual, it was recommended to start routine monitoring of hydrogen sulphide ( $H_2S$ ) levels for the sewerage system of 3RS upon commencement of operation of the project. During the reporting period, the  $H_2S$  monitoring proposal was submitted to EPD in April 2023 and accepted by EPD in June 2023.

Site inspections and audits were undertaken in accordance with the monitoring programme for landscape and visual impacts during construction and establishment works phases. No non-conformity was recorded during the reporting period.

In total, 285 HSF movement between HKIA SkyPier and Macau was recorded in the reporting period. The daily movements of all SkyPier HSFs in the reporting period, including those not using the diverted route, ranged between 5 and 54, which falls within the maximum daily cap number of 125. The annual daily average of all SkyPier HSF movements in the reporting period was 37, which falls within the annual daily average cap of 99 SkyPier HSF movements.

The audit of construction and associated vessels has started since August 2016. ET has conducted audit to ensure that the contractors were fully complied with the requirements of the MTRMP-CAV. The MSS was launched in March 2017. The MSS automatically recorded the deviation case such as speeding, entering no entry zone, not travelling through the designated gate. ET conducted checking to ensure the MSS records all deviation cases accurately. A total of 2 skipper training workshops were conducted by the ET during the reporting period with captains of construction vessels associated with 3RS contracts. Another 11 skipper training workshops were held by contractors' Environmental Officers and competency tests were conducted subsequently with the trained captains by ET.

On the implementation of MMWP, silt curtains were in place by the contractors for marine filling and dolphin observers were deployed in accordance with the MMWP. On the implementation of DEZ Plan, dolphin observers were deployed by the contractors for continuous monitoring of the DEZ for seawall construction and armour rock laying works in accordance with the DEZ Plan. Trainings for the dolphin observers on the implementation of MMWP and DEZ monitoring were provided by the ET prior to the aforementioned works. From the contractors' MMWP observation records, no dolphins or other marine mammals were observed within or around the silt curtains during the reporting period. As for DEZ monitoring records, no dolphins or other marine mammals were observed within the DEZs in this reporting period.

AAHK strives to be highly transparent in its works and continues to engage with stakeholders through meetings and communications. Having said that, the dedicated 3RS Project website provides up-to-date information including EM&A results, updated plans and submissions in accordance with requirements in the EP, materials of the liaison group meetings, flyers introducing the environmental initiatives of the 3RS Project, as well as information on the status and operation of the Marine Ecology Enhancement Fund and the Fisheries Enhancement Fund.

Overall, the recommended environmental mitigation measures, as included in the EM&A programme, have been effectively implemented during the reporting period. Also, the EM&A programme implemented by the ET has effectively monitored the construction activities and ensured the proper implementation of mitigation measures.

### **Figures**

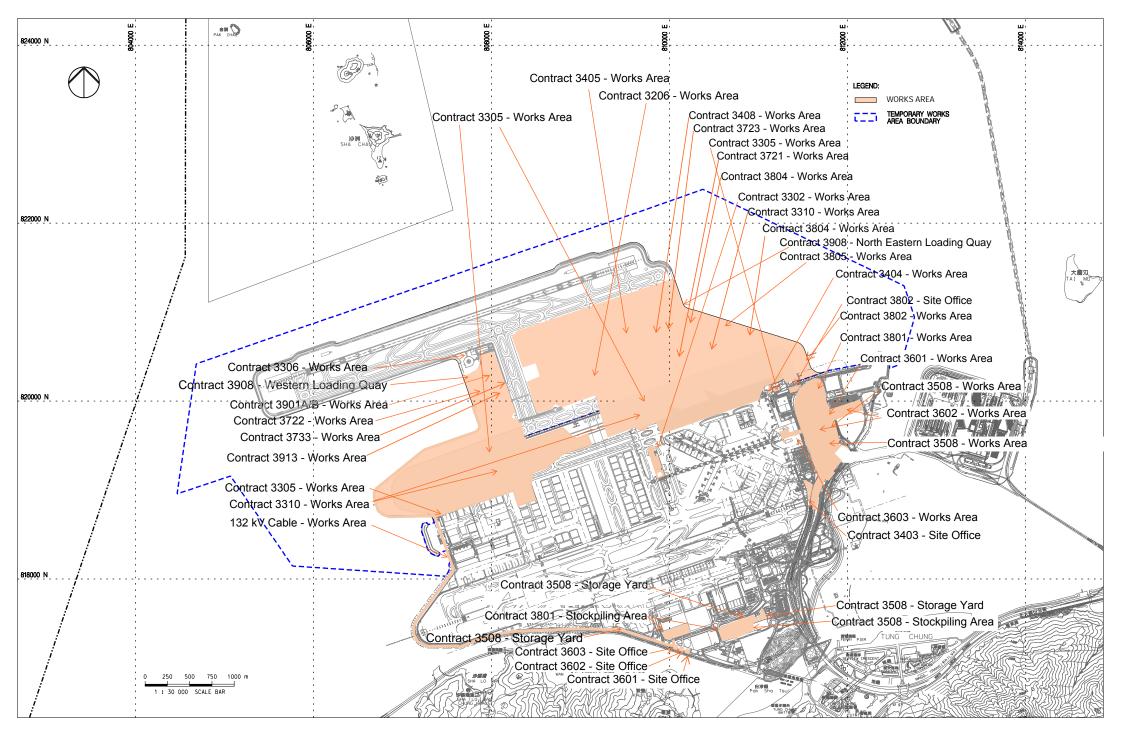
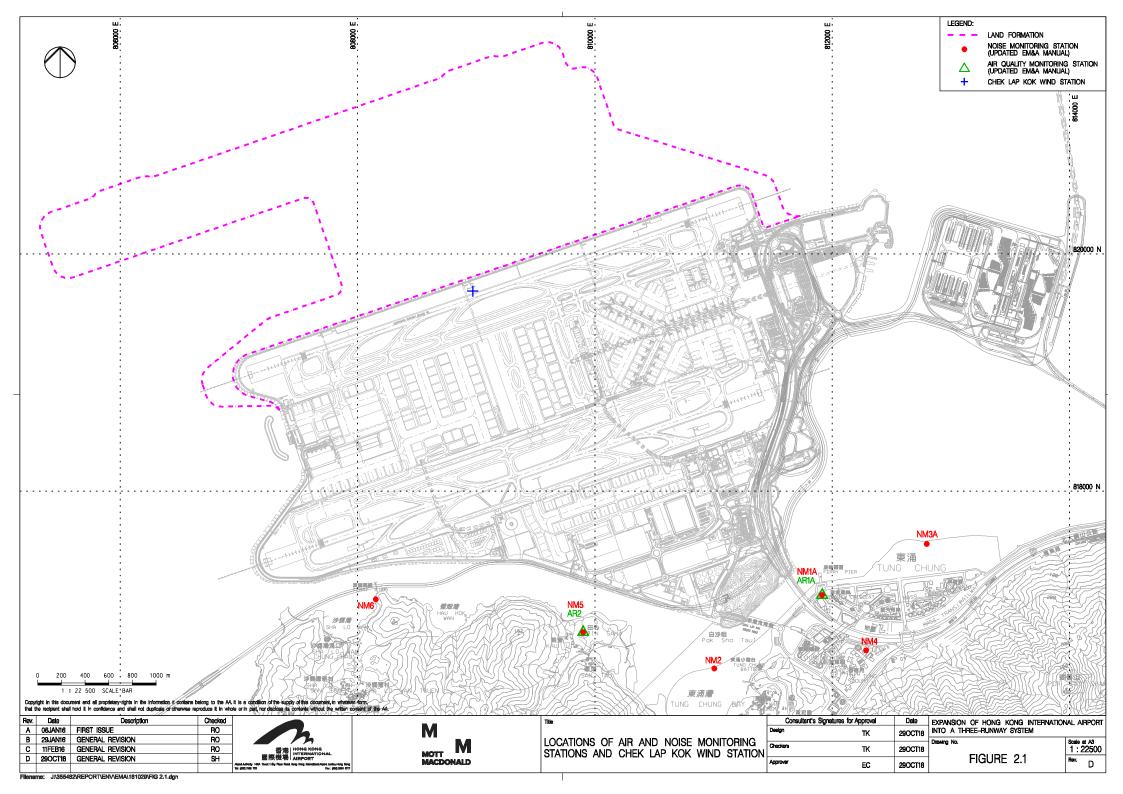
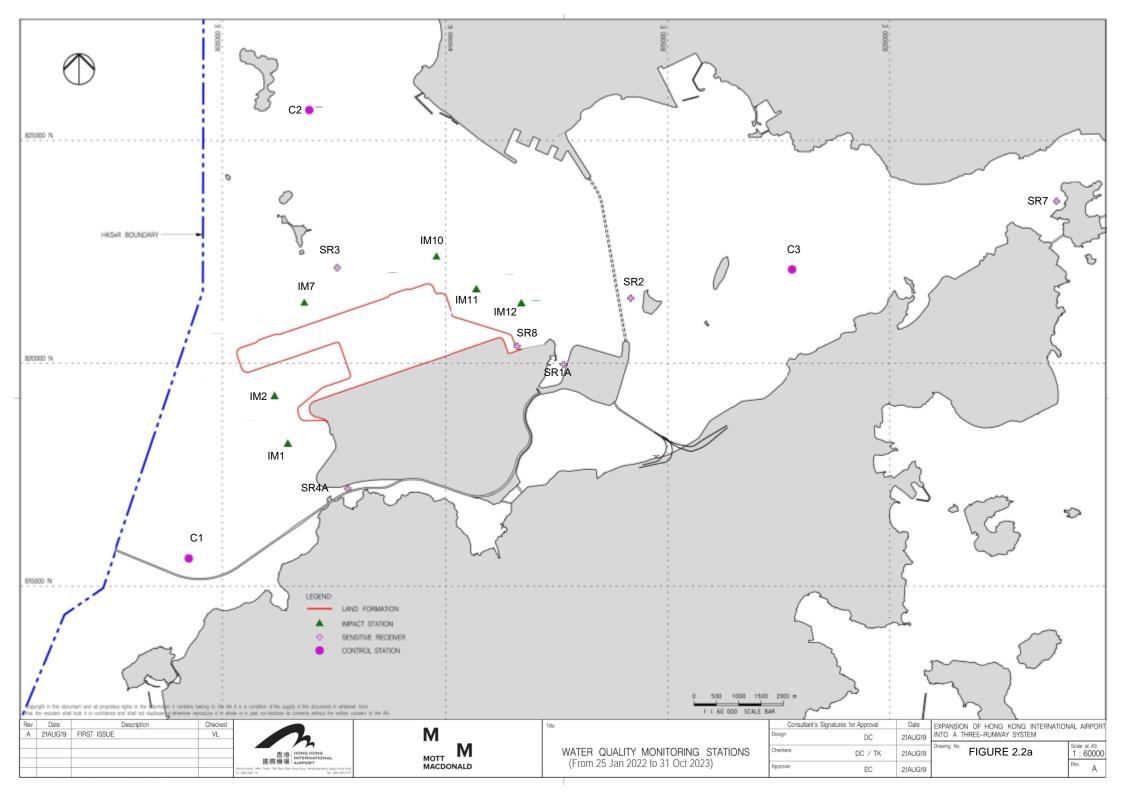
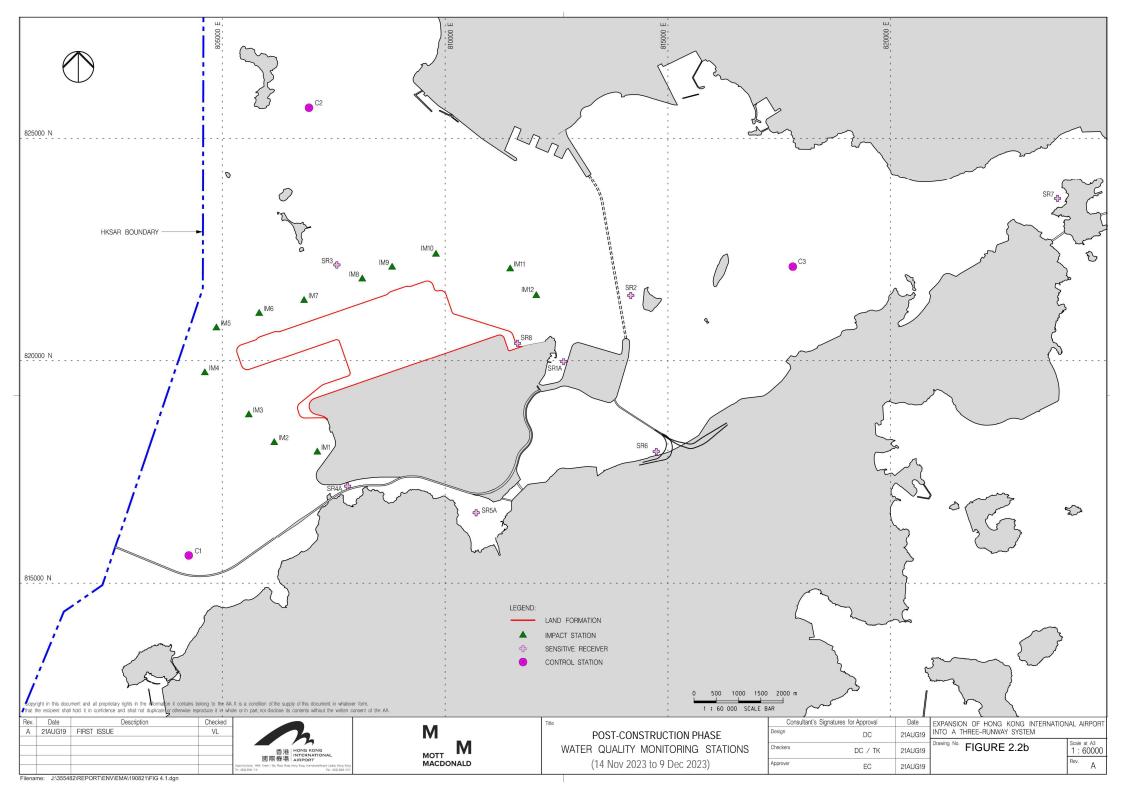
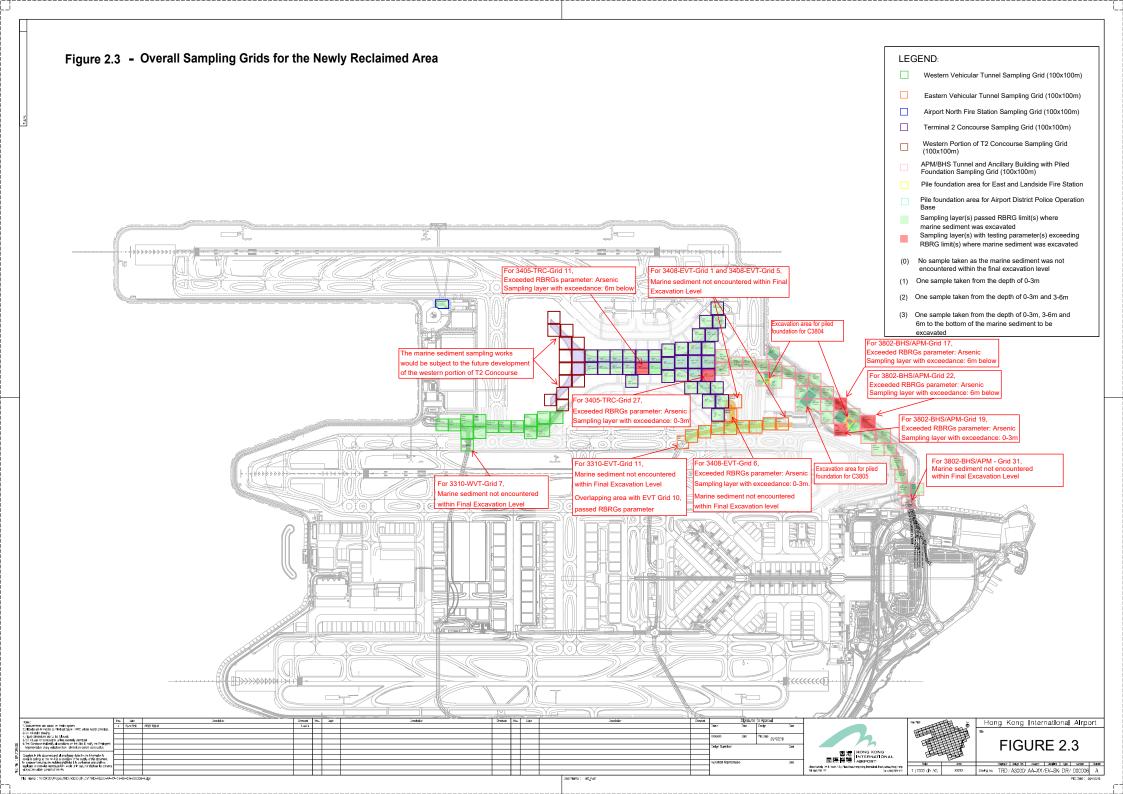


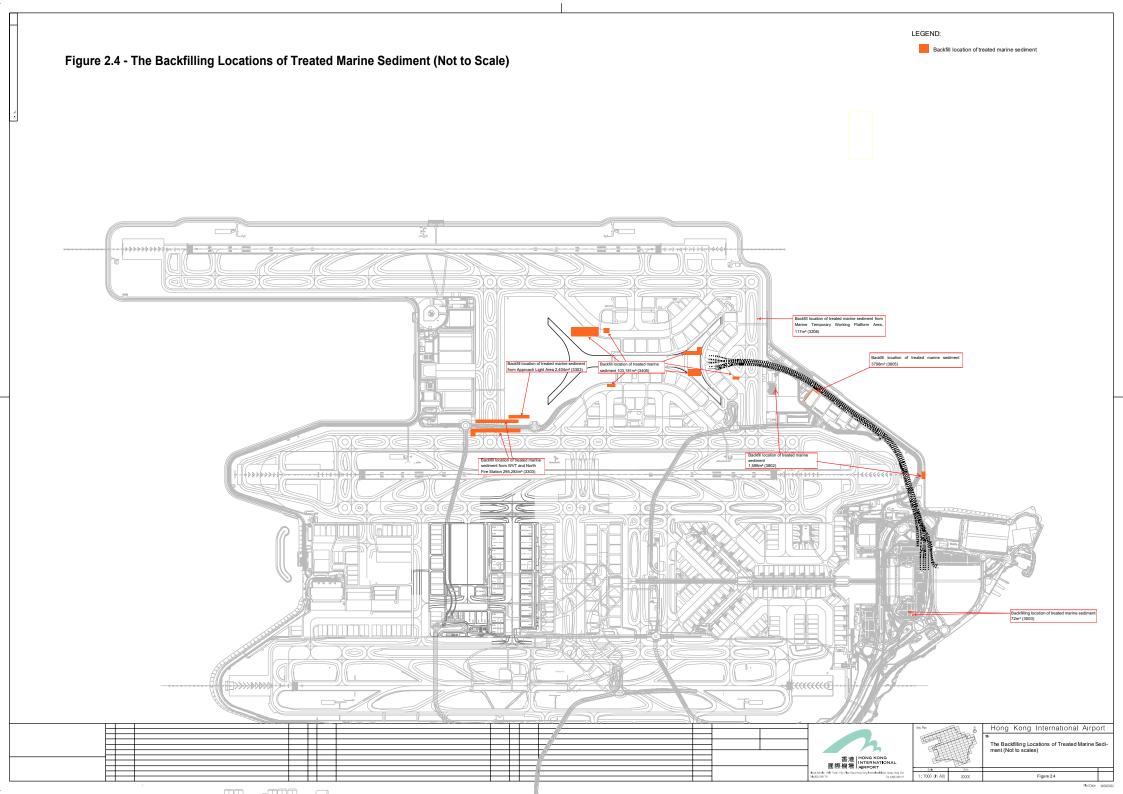
FIGURE 1.1 LOCATIONS OF KEY CONSTRUCTION ACTIVITIES

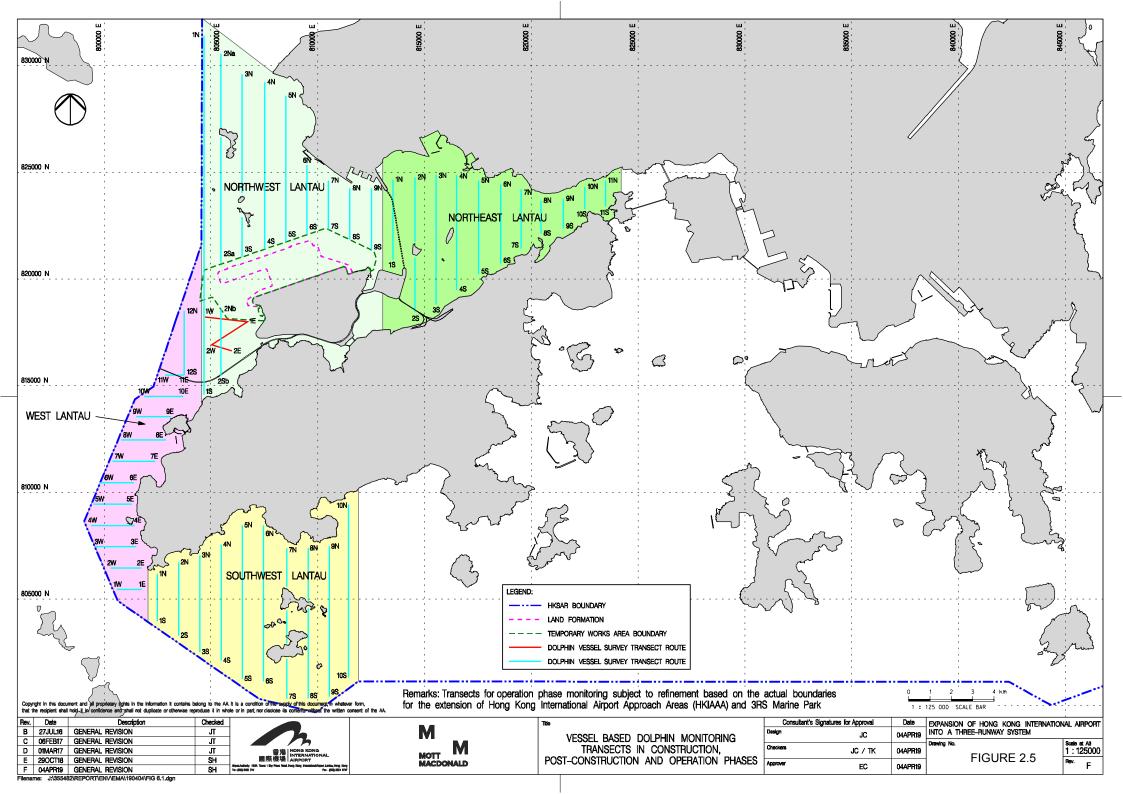


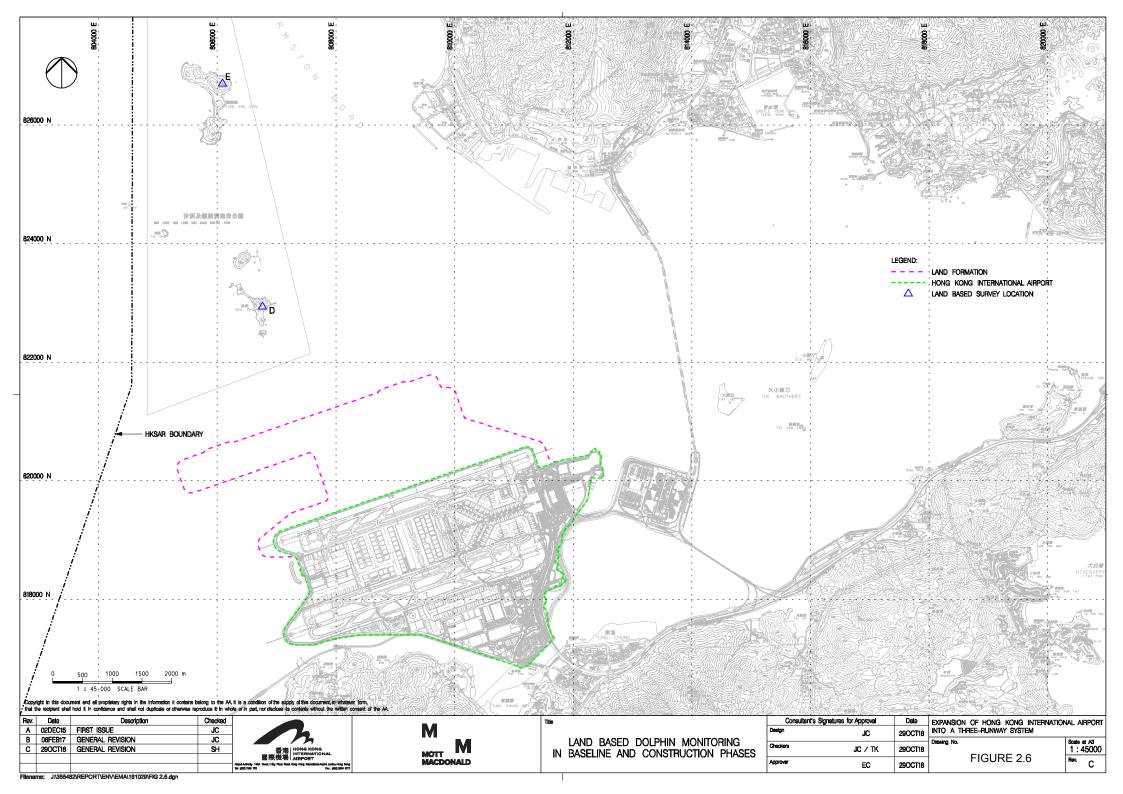


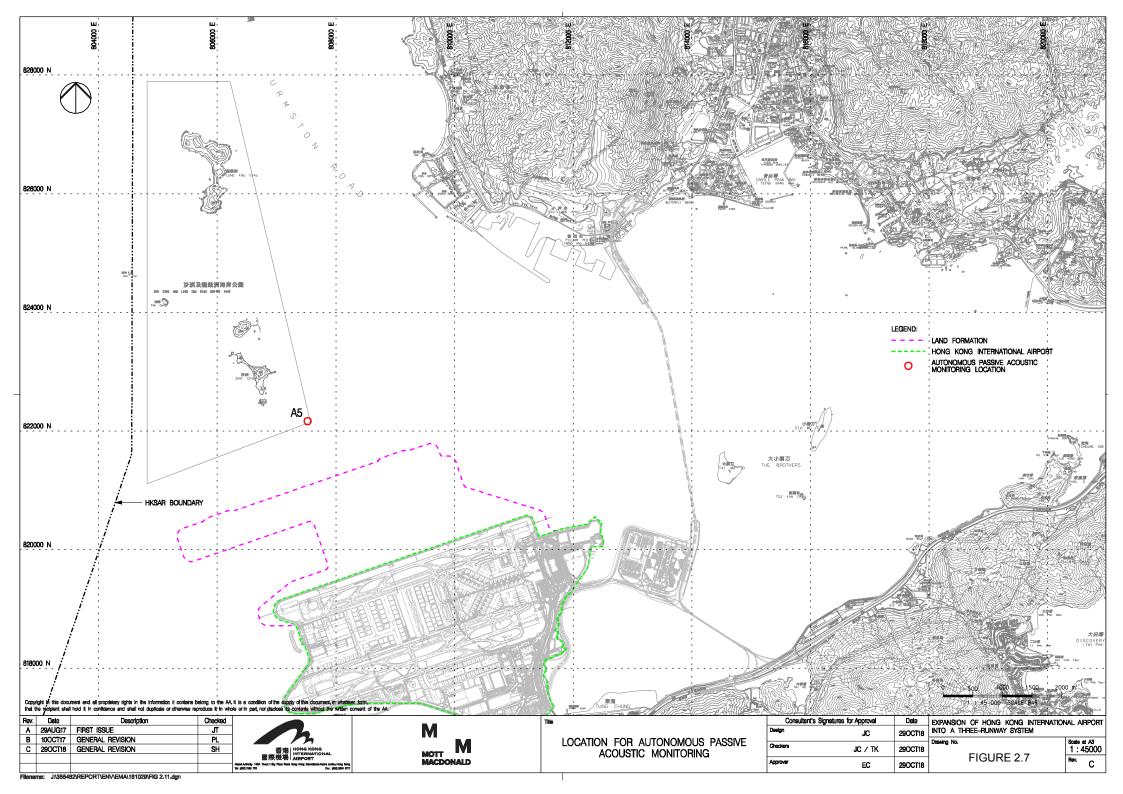












## **Appendix A. Contract Description**

## **Contract Description**

Contract No.	Contract Title	Contractor	Key Construction Activities
3206	Reclamation Contract	Zhen Hua Engineering Company LtdChina Communications Construction Company LtdCCCC Dredging (Group) Company Ltd. Joint Venture	The works covered by the Contract 3206 comprise the formation of approximately 650 hectares of land north of the existing airport island for the project, the major construction activities including without limitation the following  • Geotechnical and ground improvement works;  • Seawall construction;  • Marine and land filling works; and  • Civil works.
3302	Eastern Vehicular Tunnel Advance Works	China Road and Bridge Corporation	The works covered by the Contract 3302 comprise the design and construction of the first section of the new Eastern Vehicular Tunnel and a Road Tunnel Plant Building. The major construction activities include without limitation the following:  • Foundation and structural works;  • Cast-in / Underground electrical & mechanical works and utility services; and  • All associated testing and commissioning works.
3305	Airfield Ground Lighting System	ADB Safegate Hong Kong Limited	The works covered by the Contract 3305 comprise the design, manufacture, installation and handover of the Airfield Ground Lighting (AGL) System. The major construction activities include without limitation the following: <ul> <li>Light fittings works;</li> <li>Power Supply System installation;</li> <li>Fibre optic cables and data cables supply and connection;</li> <li>Set up Control and Communication system;</li> <li>All associated testing and commissioning works.</li> </ul>
3306	Observation Facility Control Systems Supporting Interim 2RS and 3RS	Chinney Alliance Engineering Limited	The works covered by the Contract 3306 comprise the design, procurement, manufacture, supply, installation, testing and commissioning of the Observation Facility Control Systems and Airfield Network for the interim Two-Runway System and Three-Runway System respectively. The major construction activities include without limitation the following:  • Power Supply System installation;

Contract No.	Contract Title	Contractor	Key Construction Activities
			<ul> <li>Fibre optic cables and data cables supply and connection;</li> <li>Set up Control and Communication system;</li> <li>Minor building work and accessories; and</li> <li>All associated testing and commissioning works.</li> </ul>
3307	Fire Training Facility	Paul Y. Construction Company Limited	The works covered by the Contract 3307 comprise the construction of a Fire Training Facility on the new reclamation area to replace the existing facility at the Airport Island. The major construction activities include without limitation the following:  Building services works; Civil works; and All associated testing and temporary works.
3308	Foreign Object Debris Detection System	DAS Aviation Services Group	The works cover by the Contract 3308 comprise the entire expanded Foreign Object Debris (FOD) detection system required for the operation of new Three-Runway System at Hong Kong International Airport. The major construction activities include without limitation the following:  • Excavation works;  • Construction of FOD sensor towers;  • Set up FOD detection system;  • Civil and structural works; and  • All associated electrical and mechanical works.
3310	North Runway Modification Works	China State Construction Engineering (Hong Kong) Ltd.	The works cover by the Contract 3310 comprise the modification of north runway and the connections of taxiways to the modified north runway on existing airport island. The major construction activities include without limitation the following:  • Modification works for existing north runway;  • Connections works for new taxiways;  • Construction of ancillary buildings/ facilities;  • Building services and airport systems;  • Infrastructure Works;  • Underground utilities and services; and  • All associated asphalt pavement work and earthwork.

Contract No.	Contract Title	Contractor	Key Construction Activities
3402	New Integrated Airport Centers Enabling Works	Wing Hing Construction Co., Ltd.	The works covered by the Contract 3402 comprise the enabling works for the new Integrated Airport Centers. The major construction activities include without limitation the following:  • Site clearance and demolition;  • Building services works;  • Utilities diversion and installation works;  • Roadworks including associated facilities; and  • All associated testing and commissioning works.
3403	New Integrated Airport Centres – Building and Civil Works	Sun Fook Kong Construction Limited	The works covered by the Contract 3403 comprise the construction of a new Integrated Airport Centre (IAC) and a number of ancillary facilities and Additions and Alteration (A&A) works for converting the existing IAC into a back-up IAC, including without limitation the following:  • Site clearance and demolition;  • Building structure and envelope;  • Building Services and Airport Systems; and  • Utilities division and installations.
3404	Integrated Airport Control System	Shun Hing Systems Integration Co., Ltd.	The works covered by the Contract 3404 comprise the design, supply, manufacture, delivery, installation, testing and commissioning of Integrated Airport Control System and conversion of the existing Integrated Airport Centre (IAC) into a Back-up IAC for the operation of interim Two-Runway System and Three-Runway System. The major construction activities include without limitation the following: <ul> <li>Cabling works</li> <li>System configuration and programming works;</li> <li>Set up Control and Communication system;</li> <li>Decommissioning works; and</li> <li>All associated testing and commissioning works.</li> </ul>

Contract No.	Contract Title	Contractor	Key Construction Activities
3405	Third Runway Concourse Foundation and Substructure Works	China Road and Bridge Corporation - Bachy Soletanche Group Limited - LT Sambo Co., Ltd. Joint Venture	The works covered by the Contract 3405 comprise without limitation the following:  • Piled foundation works;  • Basement and tunnel structure works;  • Associated internal reinforced concrete structures;  • Backfilling and compaction of works area; and  • Associated testing and temporary works.
3408	Third Runway Concourse and Apron Works	Beijing Urban Construction Group Company Limited and Chevalier (Construction) Company Limited Joint Venture	The works covered by the Contract 3408 comprise the design and construction of the Third Runway Concourse (TRC), the TRC Apron, two cross-field taxiways, Ancillary Buildings, specific section of the Eastern Vehicular Tunnel (EVT), and the associated infrastructure, testing, and commissioning works. The major construction activities include without limitation the following: <ul> <li>Superstructure, interior landscaping, building services and airport system of TRC and ancillary buildings;</li> <li>Structural works of specific section of the EVT;</li> <li>Utility services and roadworks around TRC;</li> <li>Asphalt pavements works of cross-field taxiways; and</li> <li>Frontal and remote stands, taxilanes and associated airport system of TRC Apron</li> </ul>
3508	Terminal 2 Expansion Works	Gammon Engineering and Construction Co., Ltd	The works covered by the Contract 3508 comprise the construction of T2, North Annex Building (NAB) and South Annex Building (SAB) with interconnecting bridges, landside transport infrastructure including viaducts and at grade roads, underground utility services, one sewage pumping station with the associated electrical building, footbridges, external works and modification works to existing facilities. The major construction activities include without limitation the following:  • Superstructure, interior landscaping, building services and airport system of T2, NAB, SAB and associated footbridges;  • Additions and Alteration (A&A) works of the HKIA Commercial Building;  • Modification of the existing APM and BHS tunnels;  • External works and road networks around T2; and

Contract No.	Contract Title	Contractor	Key Construction Activities
			Utilities.
3601	New Automated People Mover System (TRC Line)	CRRC Puzhen Bombardier Transportation Systems Limited and CRRC Nanjing Puzhen Co., Ltd. Joint Venture	The works covered by the Contract 3601 comprise the initial phase of the Automated People Mover (APM) system connecting the Third Runway Concourse (TRC) and the APM Interchange Station in the modified T2, and extension of the new APM system into the new APM Depot east of T2. The major construction activities include without limitation the following:  • New 3-guideway APM system between TRC and T2;  • Extension of the TRC Line into the new APM Depot;  • APM associated sub-systems (communications, signalling, etc.)  • Associated civil works; and  • All associated testing, commissioning works.
3602	Existing APM System Modification Works	Niigata Transys Co., Ltd.	The works covered by the Contract 3602 comprise the detailed design, supply, manufacture, fabrication, implementation, testing and commissioning of the following modification works of the existing APM systems:  • Modification of existing APM depot and APM cars;  • Modification of existing T1 & T2 tunnels; and  • Preparation of new APM depot.
3603	3RS Baggage Handling System	Vanderlande Industries Hong Kong Limited and Shun Hing Systems Integration Company Limited	The works covered by the Contract 3603 comprise the design, supply, manufacture, delivery, installation, testing and commissioning of the high-speed baggage handling system.
3721	Construction Support Infrastructure Works	China State Construction Engineering (Hong Kong) Limited	The works covered by the Contract 3721 comprise the construction of the infrastructure works and building facilities on the reclaimed land formation. The major construction activities include without limitation the following:  • Project site road;  • Utilities;  • Cargo loading quays; and  • Security fencing and hoarding.
3722	Western Support Area – Construction	Tapbo Construction Company Limited and	The works covered by the Contract 3722 comprise the design and construction of support facilities, including site office, sewage treatment

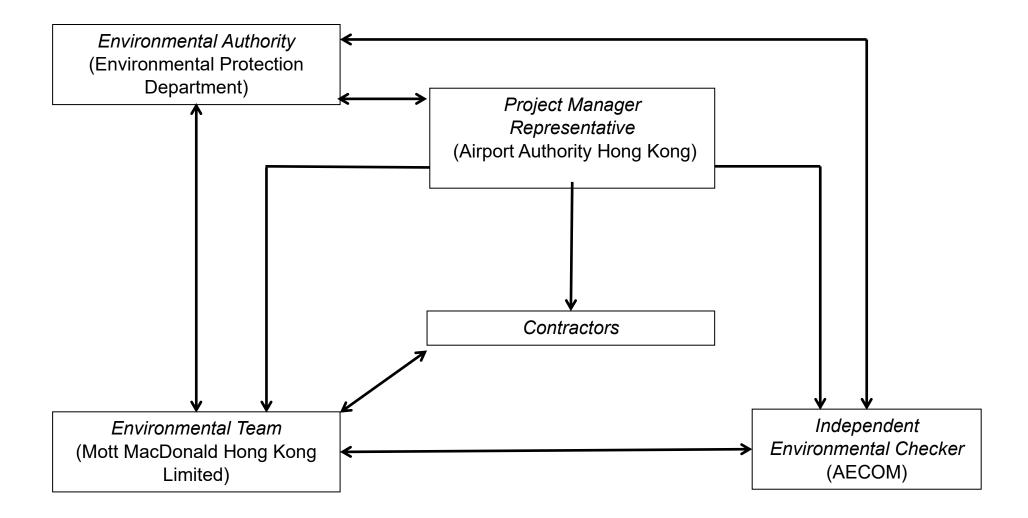
Contract No.	Contract Title	Contractor	Key Construction Activities
	Support Facilities	Konwo Modular House Ltd. Joint Venture	facility, canteen, and centralised power supply building. The major construction activities include without limitation the following:
3723	Eastern Support Area – Construction Support Facilities	Tapbo Construction Company Limited and Konwo Modular House Ltd. Joint Venture	The works covered by the Contract 3723 comprise the design and construction of support facilities, including site office, sewage treatment facility, canteen, and centralised power supply building. The major construction activities include without limitation the following: <ul> <li>Construction of support facilities;</li> <li>Foundation, structural and superstructure works;</li> <li>Sewage pipe network and connection works; and</li> <li>Building services works.</li> </ul>
3728	Minor Site Works	Shun Yuen Construction Company Limited	The works to be executed by the Contract 3728 comprise minor works within the Airside and Landside areas of the existing airport island to support the Project.
3733	Emergency Repair Service	Wing Hing Construction Co., Ltd.	The works to be executed by the Contract 3733 comprise the provision of emergency repair service for Three Runway System (3RS) Project construction. The major construction activities include without limitation the following: <ul> <li>Construction of support facilities;</li> <li>Building services works;</li> <li>Security fencing and hoarding; and</li> <li>Ground pavement works.</li> </ul>
3801	APM and BHS Tunnels on Existing Airport Island	China State Construction Engineering (Hong Kong) Limited	The works covered by the Contract 3801 comprise the construction of the APM and Baggage Handling System (BHS) tunnels on existing airport island. The major construction activities include without limitation the following: <ul> <li>Construction of APM and BHS tunnels;</li> <li>Construction of ventilation building and associated infrastructure; and</li> <li>Construction, testing and commissioning of sewerage pumping station; and</li> <li>Civil and structural engineering works.</li> </ul>

Contract No.	Contract Title	Contractor	Key Construction Activities
3802	APM and BHS Tunnels and Related Works	Gammon Construction Limited	The works covered by the Contract 3802 comprise the construction of the APM and BHS tunnels on existing airport island. The major construction activities include without limitation the following:  • Construction of APM/ BHS Tunnels;  • Construction of ancillary buildings/ facilities;  • Building services and airport systems;  • Infrastructure Works;  • Underground utilities and services; and  • All associated testing and commissioning works.
3804	East and Landside Fire Stations	Beijing Urban Construction Group Construction Limited - Beijing Urban Construction International Construction Limited - Kin Shing (Leung's) General Contractors Ltd Joint Venture	The works covered by the Contract 3804 comprise the construction of the East Fire Station (EFS) and Landside Fire Station (LFS), which are three-storey and four storey facilities for supporting firefighting and emergency rescue services at the airport. The major construction activities include without limitation the following: <ul> <li>Construction of EFS and LFS;</li> <li>Building services and airport systems;</li> <li>Handling, treatment and reuse of the marine deposit, contaminated mud and treated soil;</li> <li>All associated testing and commissioning works.</li> </ul>
3805	New Airport District Police Operational Base	Chinney Construction Co., Ltd.	The works covered by the Contract 3805 comprise the construction of the New Airport District Police Operational Base (NPOB), which is a seven-storey high building for provision of operational facilities such as a forward holding area and dog kennel for counter terrorism related units, training facilities such as a firing range and a tactics training centre and offices, facilities for district operation and ancillary facilities. The major construction activities include without limitation the following:  • Piled foundation works;  • Handling, treatment and reuse of the marine deposit, contaminated mud and treated soil;  • Associated testing and commissioning works; and  • Associated temporary works.
3901A	Concrete Batching Facility	K. Wah Concrete Company Limited	The works covered by the Contract 3901A comprise the establishment, operation and maintenance of a concrete batching facility at the Project Site

Contract No.	Contract Title	Contractor	Key Construction Activities
			<ul> <li>and the supply of concrete products. The major construction activities include without limitation the following:         <ul> <li>Supply of all equipment for the installation of the Facility to the Site; and</li> <li>Supply of all raw materials required for the production of ready mixed concrete products and the continual operation of the Facility.</li> </ul> </li> </ul>
3901B	Concrete Batching Facility	Gammon Construction Limited	The works covered by the Contract 3901B comprise the establishment, operation and maintenance of a concrete batching facility at the Project Site and the supply of concrete products. The major construction activities include without limitation the following: <ul> <li>Supply of all equipment for the installation of Facility to the Site; and</li> <li>Supply of all raw materials required for the production of ready mixed concrete products and the continual operation of the Facility.</li> </ul>
3908	Quay Management Services	Gitanes – Crown Asia Joint Venture	The works to be executed by the Contract 3908 comprise the provision of quay management services at the Western Loading Quay, Eastern Loading Quay and North Eastern Loading Quay and roll-on roll-off marine cargo transport service (RORO services) for 3RS Project construction. The major construction activities include without limitation the following: <ul> <li>Operation and maintenance of the quays;</li> <li>Logistics and storage control management for arrival and departure cargo; and</li> <li>Provision of RORO services</li> </ul>
3913	Asphalt Batching Plant	Sinohydro Corporation Limited, Powerchina Airport Construction Company Limited, and Rock-One Engineering Company Limited Joint Venture	The works covered the Contract 3913 comprise the takeover of existing asphalt batching facilities at the Western Support Area, the provision of all other associated facilities, plant and equipment such as bitumen and polymer modified binder blending units (collectively called the Facility) and the operation and maintenance of the Facility. The major construction activities include without limitation the following: <ul> <li>Supply of licenced products required for asphalt pavement work;</li> <li>Decommissioning and returning works; and</li> <li>All associated testing and commissioning works.</li> </ul>
	132 kV Cable	CLP Power Hong Kong Limited / Kum Shing (K.F.)	The works covered the 132kV Cable layering at the Project Site. The major construction activities include without limitation the following:

Contract No.	Contract Title	Contractor	Key Construction Activities
		Construction Company	Dust installation works; and
		Limited	Cable trenching and laying works

## **Appendix B. Project Organization Chart**



# Appendix C. Environmental Mitigation Implementation Schedule (EMIS) for Construction Phase



## Environmental Mitigation Implementation Schedule (EMIS) for Construction Phase

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Air Quality Impact – Construction Phase		
5.2.6.2	2.1	-	Dust Control Measures ■ Water spraying for 12 times a day or once every two hours for 24-hour working at all active works area.	Within construction site / Duration of the construction phase	1
5.2.6.3	2.1	-	<ul> <li>Covering of at least 80% of the stockpiling area by impervious sheets. Water spraying of all dusty materials immediately prior to any loading transfer operation so as to keep the dusty material wet during material handling.</li> </ul>	Within construction site / Duration of the construction phase	1
5.2.6.4 2.1	2.1	-	Dust control practices as stipulated in the Air Pollution Control (Construction Dust) Regulation should be adopted. These practices include:  Good Site Management  Good site management is important to help reducing potential air quality impact down to an acceptable level. As a general guide, the Contractor should maintain high standard of housekeeping to prevent emission of fugitive dust. Loading, unloading, handling and storage of raw materials, wastes or byproducts should be carried out in a manner so as to minimise the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be cleaned up regularly. Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning.	Within construction site / Duration of the construction phase	I
			Disturbed Parts of the Roads  Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or  Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet.  Exposed Earth	Within construction site / Duration of the construction phase	1
			<ul> <li>Exposed Earth</li> <li>Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating with latex, vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies.</li> </ul>	site / Duration of the construction phase	•



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Loading, Unloading or Transfer of Dusty Materials  • All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet.	Within construction site / Duration of the construction phase	1
			Debris Handling  • Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides; and	Within construction site / Duration of the construction phase	1
			<ul> <li>Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped.</li> <li>Transport of Dusty Materials</li> <li>Vehicle used for transporting dusty materials/spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards.</li> </ul>	Within construction site / Duration of the construction phase	1
			Wheel washing  Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels.	Within construction site / Duration of the construction phase	I
			Use of vehicles  The speed of the trucks within the site should be controlled to about 10km/hour in order to reduce adverse dust impacts and secure the safe movement around the site;	Within construction site / Duration of the construction phase	1
			<ul> <li>Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels; and</li> <li>Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle.</li> </ul>		
			Site hoarding  Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit.	Within construction site / Duration of the construction phase	ı
5.2.6.5	2.1	-	Best Practices for Concrete Batching Plant  The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Cement Works (Concrete Batching Plant) BPM 3/2 as well as in the future Specified Process licence should be adopted. The best practices are recommended to be applied to both the land based and floating concrete batching plants. Best practices include:  Cement and other dusty materials	Within Concrete Batching Plant / Duration of the construction phase	I



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?
			■ The loading, unloading, handling, transfer or storage of cement, pulverised fuel ash (PFA) and/or other equally dusty materials shall be carried in a totally enclosed system acceptable to EPD. All dust-laden air or waste gas generated by the process operations shall be properly extracted and vented to fabric filtering system to meet the required emission limit;		
			• Cement, PFA and/or other equally dusty materials shall be stored in storage silo fitted with audible high-level alarms to warn of over-filling. The high-level alarm indicators shall be interlocked with the material filling line such that in the event of the silo approaching an overfilling condition, an audible alarm will operate, and after 1 minute or less the material filling line will be closed;		
			<ul> <li>Vents of all silos shall be fitted with fabric filtering system to meet the required emission limit;</li> </ul>		
			<ul> <li>Vents of cement/PFA weighing scale shall be fitted with fabric filtering system to meet the required emission limit; and</li> </ul>		
			<ul> <li>Seating of pressure relief valves of all silos shall be checked, and the valves re-seated if necessary, before each delivery.</li> </ul>		
			Other raw materials	Within Concrete	I
			• The loading, unloading, handling, transfer or storage of other raw materials which may generate airborne dust emissions such as crushed rock, sand, stone aggregate, shall be carried out in such a manner to prevent or minimize dust emissions;	Batching Plant / Duration of the construction phase	
			• The materials shall be adequately wetted prior to and during the loading, unloading and handling operations. Manual or automatic water spraying system shall be provided at all unloading areas, stockpiles and material discharge points;		
			<ul> <li>All receiving hoppers for unloading relevant materials shall be enclosed on three sides up to 3 m above the unloading point. In no case shall these hoppers be used as the material storage devices;</li> </ul>		
			• The belt conveyor for handling materials shall be enclosed on top and two sides with a metal board at the bottom to eliminate any dust emission due to wind-whipping effect. Other type of enclosure will also be accepted by EPD if it can be demonstrated that the proposed enclosure can achieve same performance;		
			<ul> <li>All conveyor transfer points shall be totally enclosed. Openings for the passage of conveyors shall be fitted with adequate flexible seals;</li> </ul>		
			<ul> <li>Scrapers shall be provided at the turning points of all conveyors to remove dust adhered to the belt surface;</li> </ul>		
			<ul> <li>Conveyors discharged to stockpiles of relevant materials shall be arranged to minimize free fall as far as practicable. All free falling transfer points from conveyors to stockpiles shall be enclosed with chute(s) and water sprayed;</li> </ul>		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion	Mitigation Measures Implemented?
				of measures	
			<ul> <li>Aggregates with a nominal size less than or equal to 5 mm should be stored in totally enclosed structure such as storage bin and should not be handled in open area. Where there is sufficient buffer area surrounding the concrete batching plant, ground stockpiling may be used;</li> </ul>		
			• The stockpile shall be enclosed at least on top and three sides and with flexible curtain to cover the entrance side;		
			• Aggregates with a nominal size greater than 5 mm should preferably be stored in a totally enclosed structure. If open stockpiling is used, the stockpile shall be enclosed on three sides with the enclosure wall sufficiently higher than the top of the stockpile to prevent wind whipping; and		
			■ The opening between the storage bin and weighing scale of the materials shall be fully enclosed.		
			Loading of materials for batching	Within Concrete	I
			Concrete truck shall be loaded in such a way as to minimise airborne dust emissions. The following control measures shall be implemented:	Batching Plant / Duration of the	
			(a) Pre-mixing the materials in a totally enclosed concrete mixer before loading the materials into the concrete truck is recommended. All dust-laden air generated by the pre-mixing process as well as the loading process shall be totally vented to fabric filtering system to meet the required emission limit; and	construction phase	
			(b) If truck mixing batching or other types of batching method is used, effective dust control measures acceptable to EPD shall be adopted. The dust control measures must have been demonstrated to EPD that they are capable to collect and vent all dust-laden air generated by the material loading/mixing to dust arrestment plant to meet the required emission limit.		
			The loading bay shall be totally enclosed during the loading process.		
			Vehicles  All practicable measures shall be taken to prevent or minimize the dust emission caused by vehicle movement; and  All access and route roads within the premises shall be paved and adequately wetted.	Within Concrete Batching Plant / Duration of the construction phase	I
			Housekeeping	Within Concrete	I
			A high standard of housekeeping shall be maintained. All spillages or deposits of materials on ground, support structures or roofs shall be cleaned up promptly by a cleaning method acceptable to EPD. Any dumping of materials at open area shall be prohibited.	Batching Plant / Duration of the construction phase	
.2.6.6	2.1	-	Best Practices for Asphaltic Concrete Plant	Within Asphaltic	1
			The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Tar and Bitumen Works (Asphaltic Concrete Plant) BPM 15 (94) as well as in the future Specified Process licence should be adopted. These include:	Concrete Plant / Duration of the construction phase	



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures on	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Design of Chimney		
			■ The chimney shall not be less than 3 metres plus the building height or 8 metres above ground level, whichever is the greater;		
			■ The efflux velocity of gases from the main chimney shall not be less than 12 m/s at full load condition;		
			The flue gas exit temperature shall not be less than the acid dew point; and		
			<ul> <li>Release of the chimney shall be directed vertically upwards and not be restricted or deflected.</li> </ul>		
			Cold feed side	Within Asphaltic	1
			<ul> <li>The aggregates with a nominal size less than or equal to 5 mm shall be stored in totally enclosed structure such as storage bin and shall not be handled in open area;</li> </ul>	Concrete Plant / Duration of the	
			• Where there is sufficient buffer area surrounding the plant, ground stockpiling may be used. The stockpile shall be enclosed at least on top and three sides and with flexible curtain to cover the entrance side. If these aggregates are stored above the feeding hopper, they shall be enclosed at least on top and three sides and be wetted on the surface to prevent wind-whipping;	construction phase	
			• The aggregates with a nominal size greater than 5 mm should preferably be stored in totally enclosed structure. Aggregates stockpile that is above the feeding hopper shall be enclosed at least on top and three sides. If open stockpiling is used, the stockpiles shall be enclosed on three sides with the enclosure wall sufficiently higher than the top of the stockpile to prevent wind whipping;		
			<ul> <li>Belt conveyors shall be enclosed on top and two sides and provided with a metal board at the bottom to eliminate any dust emission due to the wind-whipping effect. Other type of enclosure will also be accepted by EPD if it can be demonstrated that the proposed enclosure can be achieve the same performance;</li> </ul>		
			<ul> <li>Scrapers shall be provided at the turning points of all belt conveyors inside the chute of the transfer points to remove dust adhered to the belt surface;</li> </ul>		
			<ul> <li>All conveyor transfer points shall be totally enclosed. Openings for the passages of conveyors shall be fitted with adequate flexible seals; and</li> </ul>	Within Asphaltic Concrete Plant / Duration of the construction phase	
			<ul> <li>All materials returned from dust collection system shall be transferred in enclosed system and shall be stored inside bins or enclosures.</li> </ul>		
			Hot feed side		1
			• The inlet and outlet of the rotary dryer shall be enclosed and ducted to a dust extraction and collection system such as a fabric filter. The particulate and gaseous concentration at the exhaust outlet of the dust collector shall not exceed the required limiting values;		
			• The bucket elevator shall be totally enclosed and the air be extracted and ducted to a dust collection system to meet the required particulates limiting value;		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			<ul> <li>All vibratory screens shall be totally enclosed and dust tight with close-fitted access inspection opening.</li> <li>Gaskets shall be installed to seal off any cracks and edges of any inspection openings;</li> </ul>		
			<ul> <li>Chutes for carrying hot material shall be rigid and preferably fitted with abrasion resistant plate inside.</li> <li>They shall be inspected daily for leakages;</li> </ul>		
			• All hot bins shall be totally enclosed and dust tight with close-fitted access inspection opening. Gaskets shall be installed to seal off any cracks and edges of any inspection openings. The air shall be extracted and ducted to a dust collection system to meet the required particulates limiting value; and		
			<ul> <li>Appropriate control measures shall be adopted in order to meet the required bitumen emission limit as well as the ambient odour level (2 odour units).</li> </ul>		
			Material transportation	Within Asphaltic	1
			• The loading, unloading, handling, transfer or storage of other raw materials which may generate airborne dust emissions such as crushed rocks, sands, stone aggregates, reject fines, shall be carried out in such a manner as to minimize dust emissions;	Concrete Plant / Duration of the construction phase	
			<ul> <li>Roadways from the entrance of the plant to the product loading points and/or any other working areas where there are regular movements of vehicles shall be paved or hard surfaced; and</li> </ul>		
			<ul> <li>Haul roads inside the Works shall be adequately wetted with water and/or chemical suppressants by water trucks or water sprayers.</li> </ul>		
			Control of emissions from bitumen decanting	Within Asphaltic	1
			■ The heating temperature of the particular bitumen type and grade shall not exceed the corresponding temperature limit of the same type listed in Appendix 1 of the Guidance Note;	Concrete Plant / Duration of the	
			<ul> <li>Tamper-free high temperature cut-off device shall be provided to shut off the fuel supply or electricity in case the upper limit for bitumen temperature is reached;</li> </ul>	construction phase	
			<ul> <li>Proper chimney for the discharge of bitumen fumes shall be provided at high level;</li> </ul>		
			<ul> <li>The emission of bitumen fumes shall not exceed the required emission limit; and</li> </ul>		
			• The air-to-fuel ratio shall be properly controlled to allow complete combustion of the fuel. The fuel burners, if any, shall be maintained properly and free from carbon deposits in the burner nozzles.	Within Asphaltic	
			Liquid fuel		1
			• The receipt, handling and storage of liquid fuel shall be carried out so as to prevent the release of emissions of organic vapours and/or other noxious and offensive emissions to the air.	Concrete Plant / Duration of the construction phase	
			Housekeeping	Within Asphaltic Concrete Plant /	1



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			A high standard of housekeeping shall be maintained. Waste material, spillage and scattered piles gathered beneath belt conveyors, inside and around enclosures shall be cleared frequently. The minimum clearing frequency is on a weekly basis.	Duration of the construction phase	
5.2.6.7	2.1	-	Best Practices for Rock Crushing Plants	Within Rock Crushing Plant / Duration of the construction phase	N/A as there was no rock crushing plant at this stage
			The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Mineral Works (Stone Crushing Plant) BPM 11/1 (95) as well as in the future Specified Process licence should be adopted. These include:		
			Crushers		
			• The outlet of all primary crushers, and both inlet and outlet of all secondary and tertiary crushers, if not installed inside a reasonably dust tight housing, shall be enclosed and ducted to a dust extraction and collection system such as a fabric filter;		
			• The inlet hopper of the primary crushers shall be enclosed on top and 3 sides to contain the emissions during dumping of rocks from trucks. The rock while still on the trucks shall be wetted before dumping;		
			<ul> <li>Water sprayers shall be installed and operated in strategic locations at the feeding inlet of crushers; and</li> </ul>		
			<ul> <li>Crusher enclosures shall be rigid and be fitted with self-closing doors and close-fitting entrances and exits.</li> <li>Where conveyors pass through the crusher enclosures, flexible covers shall be installed at entries and exits of the conveyors to the enclosure.</li> </ul>		
			Vibratory screens and grizzlies	Within Rock Crushing	N/A as there was no rock crushing plant at this stage
			• All vibratory screens shall be totally enclosed in a housing. Screenhouses shall be rigid and reasonably dust tight with self-closing doors or close-fitted entrances and exits for access. Where conveyors pass through the screenhouse, flexible covers shall be installed at entries and exits of the conveyors to the housing. Where containment of dust within the screenhouse structure is not successful then a dust extraction and collection system shall be provided; and	Plant / Duration of the construction phase	
			<ul> <li>All grizzlies shall be enclosed on top and 3 sides and sufficient water sprayers shall be installed at their feeding and outlet areas.</li> </ul>		
			Belt conveyors	Within Rock Crushing	N/A as there was
			<ul> <li>Except for those conveyors which are placed within a totally enclosed structure such as a screenhouse or those erected at the ground level, all conveyors shall be totally enclosed with windshield on top and 2 sides;</li> </ul>	Plant / Duration of the construction phase	no rock crushing plant at this stage
			• Effective belt scraper such as the pre-cleaner blades made by hard wearing materials and provided with pneumatic tensioner, or equivalent device, shall be installed at the head pulley of designated conveyor as required to dislodge fine dust particles that may adhere to the belt surface and to reduce carry-back of fine materials on the return belt. Bottom plates shall also be provided for the conveyor unless it has been		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			demonstrated that the corresponding belt scraper is effective and well maintained to prevent falling material from the return belt; and		
			Except for those transfer points which are placed within a totally enclosed structure such as a screenhouse, all transfer points to and from conveyors shall be enclosed. Where containment of dust within the enclosure is not successful, then water sprayers shall be provided. Openings for any enclosed structure for the passage of conveyors shall be fitted with flexible seals.		
			Storage piles and bins	Within Rock Crushing	N/A as there was no rock crushing plant at this stage
			<ul> <li>Where practicable, free falling transfer points from conveyors to stockpiles shall be fitted with flexible curtains or be enclosed with chutes designed to minimize the drop height. Water sprays shall also be used where required.</li> </ul>	Plant / Duration of the construction phase	
			<ul> <li>The surface of all surge piles and stockpiles of blasted rocks or aggregates shall be kept sufficiently wet by water spraying wherever practicable;</li> </ul>		
			<ul> <li>All open stockpiles for aggregates of size in excess of 5 mm shall be kept sufficiently wet by water spraying where practicable; or</li> </ul>		
			• The stockpiles of aggregates 5 mm in size or less shall be enclosed on 3 sides or suitably located to minimize wind-whipping. Save for fluctuations in stock or production, the average stockpile shall stay within the enclosure walls and in no case the height of the stockpile shall exceed twice the height of the enclosure walls; and		
			• Scattered piles gathered beneath belt conveyors, inside and around enclosures shall be cleared regularly.		
			Rock drilling equipment	Within Rock Crushing	
			<ul> <li>Appropriate dust control equipment such as a dust extraction and collection system shall be used during rock drilling activities.</li> </ul>	Plant / Duration of the construction phase	no rock crushing plant at this stage
			Hazard to Human Life – Construction Phase		
Table 6.40	3.2	-	<ul> <li>Precautionary measures should be established to request barges to move away during typhoons.</li> </ul>	Construction Site / Construction Period	1
Table 6.40	3.2	-	<ul> <li>An appropriate marine traffic management system should be established to minimize risk of ship collision.</li> </ul>	Construction Site / Construction Period	1
Table 6.40	3.2	-	<ul> <li>Location of all existing hydrant networks should be clearly identified prior to any construction works.</li> </ul>	Construction Site / Construction Period	1
			Noise Impact – Construction Phase		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion	Mitigation Measures Implemented?^		
				of measures			
7.5.6	4.3	3 -	Good Site Practice Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during each phase of construction:	Within the Project site / During construction phase / Prior to commencement of operation	I		
			<ul> <li>only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works;</li> </ul>				
			<ul> <li>machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum;</li> </ul>				
			plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs;				
			<ul> <li>mobile plant should be sited as far away from NSRs as possible; and</li> </ul>				
						<ul> <li>material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> </ul>	
7.5.6	4.3	-	Adoption of QPME	Within the Project site /	1		
			<ul> <li>QPME should be adopted as far as applicable.</li> </ul>	During construction phase / Prior to commencement of operation			
7.5.6	4.3	3 -	Use of Movable Noise Barriers	Within the Project site /	1		
			<ul> <li>Movable noise barriers should be placed along the active works area and mobile plants to block the direct line of sight between PME and the NSRs.</li> </ul>	During construction phase / Prior to commencement of operation			
7.5.6	4.3	- 1.3	Use of Noise Enclosure/ Acoustic Shed	Within the Project site /	1		
			Noise enclosure or acoustic shed should be used to cover stationary PME such as air compressor and generator.	During construction phase / Prior to commencement of operation			
			Water Quality Impact – Construction Phase				
			· ·				



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
8.8.1.2 and 8.8.1.3	5.1	2.26	<ul> <li>Marine Construction Activities</li> <li>General Measures to be Applied to All Works Areas</li> <li>Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation;</li> <li>Use of Lean Material Overboard (LMOB) systems shall be prohibited;</li> <li>Excess materials shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessels are moved;</li> <li>Plants should not be operated with leaking pipes and any pipe leakages shall be repaired quickly;</li> <li>Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action;</li> <li>All vessels shall be sized such that adequate clearance is maintained between vessels and the seabed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash;</li> </ul>	Within construction site / Duration of the construction phase	C – Completed in Apr 2022
			<ul> <li>The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site; and</li> <li>For ground improvement activities including DCM, the wash water from cleaning of the drilling shaft should be appropriately treated before discharge. The Contractor should ensure the wastewater meets the WPCO/TM requirements before discharge. No direct discharge of contaminated water is permitted.</li> </ul>		
			<ul> <li>Specific Measures to be Applied to All Works Areas</li> <li>The daily maximum production rates shall not exceed those assumed in the water quality assessment in the EIA report;</li> <li>A maximum of 10 % fines content to be adopted for sand blanket and 20 % fines content for marine filling below +2.5 mPD prior to substantial completion of seawall (until end of Year 2017) shall be specified in the works contract document;</li> </ul>	Within construction site / Duration of the construction phase	C – Marine filling works completed in March 2023
			• An advance seawall of at least 200m to be constructed (comprising either rows of contiguous permanent steel cells completed above high tide mark or partially completed seawalls with rock core to high tide mark and filter layer on the inner side) prior to commencement of marine filling activities;		C – Completed in May 2018
			<ul> <li>Closed grab dredger shall be used to excavate marine sediment;</li> <li>Silt curtains surrounding the closed grab dredger shall be deployed in accordance with the Silt Curtain Deployment Plan; and</li> </ul>		C – Marine filling works completed in March 2023 (The arrangement of silt curtain has been modified. The details



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
					Curtain Deployment Plan)
			■ The Silt Curtain Deployment Plan shall be implemented.	•	I – For C7a and localised silt curtains
					(All enhanced silt curtain removed since March 2023)
			Specific Measures to be Applied to Land Formation Activities prior to Commencement of Marine Filling  Works  Double layer 'Type III' silt curtains to be applied around the active eastern works areas prior to	Within construction site / Duration of the construction phase	C – Marine filling works completed in March 2023
			commencement of sand blanket laying activities. The silt curtains shall be configured to minimise SS release during ebb tides. A silt curtain efficiency test shall be conducted to validate the performance of the silt curtains;		(The arrangement of silt curtain has been modified. The details can be referred to Sil Curtain Deployment Plan)
			<ul> <li>Double layer silt curtains to enclose WSRs C7a and silt screens installed at the intake points for both WSR C7a and C8 prior to commencement of construction; and</li> </ul>		I – For C7a
					C – Completed in Dec 2021 for C8
					*(The requirement of silt curtain / screen has been modified. The details can be referred to Silt Curtai Deployment Plan)
			■ The silt curtains and silt screens should be regularly checked and maintained.		I – For C7a and localised silt curtains
					(All enhanced silt curtain removed sinc March 2023)
			Specific Measures to be Applied to Land Formation Activities during Marine Filling Works	Within construction	C – Marine filling
			<ul> <li>Double layer 'Type II' or 'Type III' silt curtains to be applied around the eastern openings between partially completed seawalls prior to commencement of marine filling activities. The silt curtains shall be configured to minimise SS release during ebb tides;</li> </ul>	site / Duration of the construction phase	works completed in March 2023



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?^
				Timing of completion of measures	implemented?
					(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			<ul> <li>Double layer silt curtains to be applied at the south-western opening prior to commencement of marine filling activities;</li> </ul>		C – Marine filling works completed in March 2023
					(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			<ul> <li>Double layer silt curtain to enclose WSR C7a and silt screens installed at the intake points for both WSR C7a and C8 prior to commencement of marine filling activities; and</li> </ul>		I – For C7a
					C – Completed in Dec 2021 for C8
					(The requirement of silt curtain / screen has been modified. The details can be referred to Silt Curtain Deployment Plan)
			■ The silt curtains and silt screens should be regularly checked and maintained.		I – For C7a and localised silt curtains
				Within construction site / Duration of the construction phase	(All enhanced silt curtain removed since March 2023)
			Specific Measures to be Applied to the Field Joint Excavation Works for the Submarine Cable Diversion		N/A – the field
			<ul> <li>Only closed grabs designed and maintained to avoid spillage shall be used and should seal tightly when operated. Excavated materials shall be disposed at designated marine disposal area in accordance with the Dumping at Sea Ordinance (DASO) permit conditions; and</li> </ul>		joint excavation works for the submarine cable diversion will no
			Silt curtains surrounding the closed grab dredger to be deployed as a precautionary measure.		longer be



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
				- Through the second se	conducted anymore
8.8.1.4	5.1	-	Modification of the Existing Seawall     Silt curtains shall be deployed around the seawall modification activities to completely enclose the active works areas, and care should be taken to avoid splashing of rockfill / rock armour into the surrounding marine environment. For the connecting sections with the existing outfalls, works for these connection areas should be undertaken during the dry season in order that individual drainage culvert cells may be isolated for interconnection works.	At the existing northern seawall / Duration of the construction phase	N/A – no marine- based seawall modification works undertaken after land formation.
8.8.1.5	5.1	-	Construction of New Stormwater Outfalls and Modifications to Existing Outfalls     During operation of the temporary drainage channel, runoff control measures such as bunding or silt fence shall be provided on both sides of the channel to prevent accumulation and release of SS via the temporary channel. Measures should also be taken to minimise the ingress of site drainage into the culvert excavations.	Within construction site / Duration of the construction phase	I
8.8.1.6 8.8.1.7	5.1	2.27	Piling Activities for Construction of New Runway Approach Lights and HKIAAA Marker Beacons Silt curtains shall be deployed around the piling activities to completely enclose the piling works and care should be taken to avoid spillage of excavated materials into the surrounding marine environment.	Within construction site / Duration of the construction phase	C – For approach lights  N/A for marker beacons as  HKIAAA Marker Beacons would be replaced by buoys
			<ul> <li>For construction of the eastern approach lights at the CMPs</li> <li>Ground improvement via DCM using a close-spaced layout shall be completed prior to commencement of piling works;</li> <li>Steel casings shall be installed to enclose the excavation area prior to commencement of excavation;</li> <li>The excavated materials shall be removed using a closed grab within the steel casings;</li> <li>No discharge of the cement mixed materials into the marine environment will be allowed; and</li> <li>Excavated materials shall be treated and reused on-site.</li> </ul>	-	C – Completed in Oct 2021
8.8.1.8	5.1	-	Construction of Site Runoff and Drainage  The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended:	Within construction site / Duration of the construction phase	



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?
			• Install perimeter cut-off drains to direct off-site water around the site and implement internal drainage, erosion and sedimentation control facilities. Channels, earth bunds or sandbag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site drainage system should be undertaken by the Contractors prior to the commencement of construction (for works areas located on the existing Airport island) or as soon as the new land is completed (for works areas located on the new landform);		I
			Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM-DSS standards under the WPCO. The design of efficient silt removal facilities should make reference to the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the Contractors prior to the commencement of construction;		I
			• All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly;		1
			• Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities;		ı
			■ In the event that contaminated groundwater is identified at excavation areas, this should be treated onsite using a suitable wastewater treatment process. The effluent should be treated according to the requirements of the TM-DSS standards under the WPCO prior to discharge to foul sewers or collected for proper disposal off-site. No direct discharge of contaminated groundwater is permitted; and		ı
			• All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facility should be provided at construction site exits. Wash-water should have sand and silt settled out and removed regularly to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains. All washwater should be treated according to the requirements of the TM-DSS standards under the WPCO prior to discharge.		I
			<ul> <li>Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the construction materials, soil, silt or debris from washing away into the drainage system;</li> </ul>		1



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			<ul> <li>Manholes (including newly constructed ones) should be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and to prevent stormwater runoff being directed into foul sewers; and</li> </ul>		1
			Precautionary measures should be taken at any time of the year when rainstorms are likely. Actions to be taken when a rainstorm is imminent or forecasted are summarized in Appendix A2 of ProPECC Note PN 1/94. This includes actions to be taken during and/or after rainstorms. Particular attention should be paid to the control of silty surface runoff during storm events.		I
8.8.1.9	5.1	-	Sewage Effluent from Construction Workforce	Within construction	1
			Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	site / During construction phase	
8.8.1.10	5.1		General Construction Activities	Within construction	1
8.8.1.11			<ul> <li>Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain. Stockpiles of cement and other construction materials should be kept covered when not being used; and</li> </ul>	site / During construction phase	
			Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event.		
8.8.1.12	5.1	2.28	Drilling Activities for the Submarine Aviation Fuel Pipelines	Within construction	C – Completed in
8.8.1.13			To prevent potential water quality impacts at Sha Chau, the following measures shall be applied:	site / During	Jan 2019
			<ul> <li>A 'zero-discharge' policy shall be applied for all activities to be conducted at Sha Chau;</li> </ul>	construction phase	
			<ul> <li>No bulk storage of chemicals shall be permitted; and</li> </ul>		
			• A containment pit shall be constructed around the drill holes. This containment pit shall be lined with impermeable lining and bunded on the outside to prevent inflow from off-site areas.		
			At the airport island side of the drilling works, the following measures shall be applied for treatment of wastewater:	Within construction site / During construction phase	C – Completed in Jan 2019
			<ul> <li>During pipe cleaning, appropriate desilting or sedimentation device should be provided on site for treatment before discharge. The Contractor should ensure discharge water from the sedimentation tank meet the WPCO/TM requirements before discharge; and</li> </ul>		
			<ul> <li>Drilling fluid used in drilling activities should be reconditioned and reused as far as possible. Temporary enclosed storage locations should be provided on-site for any unused chemicals that needs to be</li> </ul>		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?
			Timing of completion of measures	implemented?*	
			transported away after all the related construction activities are completed. The requirements in ProPECC Note PN 1/94 should be adhered to in the handling and disposal of bentonite slurries.		
			Waste Management Implication - Construction Phase		
10.5.1.1	7.1	-	Opportunities to minimise waste generation and maximise the reuse of waste materials generated by the project have been incorporated where possible into the planning, design and construction stages, and the following measures have been recommended:		
			■ The relevant construction methods (particularly for the tunnel works) and construction programme have been carefully planned and developed to minimise the extent of excavation and to maximise the on-site reuse of inert C&D materials generated by the project as far as practicable. Temporary stockpiling areas will also be provided to facilitate on-site reuse of inert C&D materials;	During design and	1
			<ul> <li>Priority should be given to collect and reuse suitable inert C&amp;D materials generated from other concurrent projects and the Government's PFRF as fill materials for the proposed land formation works;</li> </ul>		1
			<ul> <li>Only non-dredged ground improvement methods should be adopted in order to completely avoid the need for dredging and disposal of marine sediment for the proposed land formation work;</li> </ul>	•	1
			<ul> <li>Excavation work for constructing the APM tunnels, BHS tunnels and airside tunnels will not be down to the CMPs beneath the fill materials in order to avoid excavating any sediments; and</li> </ul>	_	1
			• For the marine sediments expected to be excavated from the piling works of TRC, APM & BHS tunnels, airside tunnels and other facilities on the proposed land formation area, piling work of marine sections of the approach lights and HKIAAA beacons, basement works for some of T2 expansion area and excavation works for the proposed APM depot should be treated and reused on-site as backfilling materials, although required treatment level / detail and the specific re-use mode are under development.		ı
10.5.1.1	7.1	-	The following good site practices should be performed during the construction activities include:	Project Site Area /	ı
			<ul> <li>Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site;</li> </ul>	Construction Phase	
			<ul> <li>Training of site personnel in proper waste management and chemical waste handling procedures;</li> </ul>		
			<ul> <li>Provision of sufficient waste disposal points and regular collection for disposal;</li> </ul>		
			<ul> <li>Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks by tarpaulin/similar material or by transporting wastes in enclosed containers. The cover should be extended over the edges of the sides and tailboards;</li> </ul>		
			<ul> <li>Stockpiles of C&amp;D materials should be kept wet or covered by impervious sheets to avoid wind-blown dust;</li> </ul>		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion	Mitigation Measures Implemented?^
			<ul> <li>All dusty materials including C&amp;D materials should be sprayed with water immediately prior to any loading transfer operation so as to keep the dusty material wet during material handling at the barging points/ stockpile areas;</li> </ul>	of measures	
			<ul> <li>C&amp;D materials to be delivered to and from the project site by barges or by trucks should be kept wet or covered to avoid wind-blown dust;</li> </ul>		
			■ The speed of the trucks including dump trucks carrying C&D or waste materials within the site should be controlled to about 10 km/hour in order to reduce the adverse dust impact and secure the safe movement around the site; and		
			To avoid or minimise dust emission during transport of C&D or waste materials within the site, each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials. Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet.		
10.5.1.3	7.1	-	The following practices should be performed to achieve waste reduction include:	Project Site Area /	I
			<ul> <li>Use of steel or aluminium formworks and falseworks for temporary works as far as practicable;</li> </ul>	Construction Phase	
			<ul> <li>Adoption of repetitive design to allow reuse of formworks as far as practicable;</li> </ul>		
			<ul> <li>Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;</li> </ul>		
			<ul> <li>Encourage collection of aluminium cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force;</li> </ul>		
			<ul> <li>Any unused chemicals or those with remaining functional capacity should be collected for reused as far as practicable;</li> </ul>		
			<ul> <li>Proper storage and site practices to minimise the potential for damage or contamination of construction materials; and</li> </ul>		
			Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.		
10.5.1.5	7.1		Inert and non-inert C&D materials should be handled and stored separately to avoid mixing the two types of materials.	Project Site Area / Construction Phase	1
10.5.1.5	7.1	-	Any recyclable materials should be segregated from the non-inert C&D materials for collection by reputable licensed recyclers whereas the non-recyclable waste materials should be disposed of at the designated landfill site by a reputable licensed waste collector.	Project Site Area / Construction Phase	1
10.5.1.6	7.1	-	A trip-ticket system promulgated shall be developed in order to monitor the off-site delivery of surplus inert C&D materials that could not be reused on-site for the proposed land formation work at the PFRF and to control fly tipping.	Project Site Area / Construction Phase	I



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?^		
				Timing of completion of measures			
10.5.1.6	7.1	2.32	The Contractor should prepare and implement a Waste Management Plan detailing various waste arising and waste management practices.	Construction Phase	1		
10.5.1.16	7.1	-	The following mitigation measures are recommended during excavation and treatment of the sediments:	Project Site Area /	1		
		<ul> <li>On-site remediation should be carried out in an enclosed area in order to minimise odour/dust emissions;</li> </ul>	Construction Phase				
			<ul> <li>The loading, unloading, handling, transfer or storage of treated and untreated sediment should be carried out in such a manner to prevent or minimise dust emissions;</li> </ul>	_	ı		
			<ul> <li>All practical measures, including but not limited to speed control for vehicles, should be taken to minimise dust emission;</li> </ul>	_	I		
			• Good housekeeping should be maintained at all times at the sediment treatment facility and storage area;	_	1		
			<ul> <li>Treated and untreated sediment should be clearly separated and stored separately; and</li> </ul>	_	1		
			<ul> <li>Surface runoff from the enclosed area should be properly collected and stored separately, and then properly treated to levels in compliance with the relevant effluent standards as required by the Water Pollution Control Ordinance before final discharge.</li> </ul>		I		
10.5.1.18	7.1	7.1	7.1	-	The marine sediments to be removed from the cable field joint area would be disposed of at the designated disposal sites to be allocated by the MFC. The following mitigation measures should be strictly followed to minimise potential impacts on water quality during transportation of the sediments requiring Type 1 disposal:	Project Site Area / Construction Phase	N/A – the field joint excavation works for the
			<ul> <li>Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material;</li> </ul>		submarine cable		
			<ul> <li>Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by EPD; and</li> </ul>		diversion will no longer be conducted anymore		
			<ul> <li>Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation.</li> </ul>		anymore		
10.5.1.19	7.1	-	Contractor should register with the EPD as a chemical waste producer and to follow the relevant guidelines. The following measures should be implemented:	Project Site Area / Construction Phase	1		
			<ul> <li>Good quality containers compatible with the chemical wastes should be used;</li> </ul>				
			<ul><li>Incompatible chemicals should be stored separately;</li></ul>				
			<ul> <li>Appropriate labels must be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc.; and</li> </ul>				
			<ul> <li>The contractor will use a licensed collector to transport and dispose of the chemical wastes at the approved Chemical Waste Treatment Centre or other licensed recycling facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.</li> </ul>				



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
10.5.1.20	7.1	-	General refuse should be stored in enclosed bins or compaction units separated from inert C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site for disposal at designated landfill sites. An enclosed and covered area should be provided to reduce the occurrence of 'windblown' light material.	Project Site Area / Construction Phase	I
10.5.1.21	7.1	-	The construction contractors will be required to regularly check and clean any refuse trapped or accumulated along the newly constructed seawall. Such refuse will then be stored and disposed of together with the general refuse.	Project Site Area / Construction Phase	I
			Land Contamination – Construction Phase		
11.10.1.2 to 11.10.1.3	8.1	2.32	For areas inaccessible during site reconnaissance survey  Further site reconnaissance would be conducted once the areas are accessible in order to identify any land contamination concern for the areas.	Project Site Area inaccessible during site reconnaissance / Prior to Construction Phase	I
			<ul> <li>Subject to further site reconnaissance findings, a supplementary Contamination Assessment Plan (CAP) for additional site investigation (SI) (if necessary) may be prepared and submitted to EPD for endorsement prior to the commencement of SI at these areas.</li> </ul>	-	C – Completed in Jan 2018
			<ul> <li>After completion of SI, the Contamination Assessment Report (CAR) will be prepared and submitted to EPD for approval prior to start of the proposed construction works at the golf course, the underground and above-ground fuel storage tank areas, emergency power generation units, airside petrol filling station and fuel tank room.</li> </ul>	-	I *(CAR for golf course and Terminal 2 emergency power supply system nos.1, 2, 3, 4 and 5 were submitted to EPD)
			Should remediation be required, Remediation Action Plan (RAP) and Remediation Report (RR) will be prepared for EPD's approval prior to commencement of the proposed remediation and any construction works respectively.	-	N/A as no remediation was required.
11.8.1.2	8.1	-	If contaminated soil is identified, the following mitigation measures are for the excavation and transportation of contaminated materials (if any):  To minimize the incidents of construction workers coming in contact with any contaminated materials, bulk earth-moving excavation equipment should be employed;	Project Site Area / Construction Phase	N/A as no contaminated soil was found.
			<ul> <li>Contact with contaminated materials can be minimised by wearing appropriate clothing and personal protective equipment such as gloves and masks (especially when working directly with contaminated material), provision of washing facilities and prohibition of smoking and eating on site;</li> </ul>		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion	Mitigation Measures Implemented?^
			Charles line of contaminated evaporated materials an aits should be avaided as favor possible.	of measures	
			Stockpiling of contaminated excavated materials on site should be avoided as far as possible;		
			<ul> <li>The use of any contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out;</li> </ul>		
			<ul> <li>Vehicles containing any excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater;</li> </ul>		
			<ul> <li>Truck bodies and tailgates should be sealed to prevent any discharge;</li> </ul>		
			<ul> <li>Only licensed waste haulers should be used to collect and transport contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping;</li> </ul>		
			<ul> <li>Speed control for trucks carrying contaminated materials should be exercised. 8km/h is the recommended speed limit;</li> </ul>		
			<ul> <li>Strictly observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap 354) and obtain all necessary permits where required; and</li> </ul>		
			<ul> <li>Maintain records of waste generation and disposal quantities and disposal arrangements.</li> </ul>		
			Terrestrial Ecological – Construction Phase		
12.10.1.1	9.2	2.14	Pre-construction Egretry Survey	Breeding season (April	C – Completed in
			<ul> <li>Conduct ecological survey for Sha Chau egretry to update the latest boundary of the egretry.</li> </ul>	- July) prior to commencement of HDD drilling works at HKIA	Jan 2019
12.7.2.3	9.1	2.30	Avoidance and Minimisation of Direct Impact to Egretry	During construction	C – Completed in
and 12.7.2.6			The daylighting location will avoid direct encroachment to the Sheung Sha Chau egretry. The daylighting location and mooring of flat top barge, if required, will be kept away from the egretry;	phase at Sheung Sha Chau Island	Jan 2019
			• In any event, controls such as demarcation of construction site boundary and confining the lighting within the site will be practised to minimise disturbance to off-site habitat at Sheung Sha Chau Island; and		
			The containment pit at the daylighting location shall be covered or camouflaged.		
12.7.2.5	9.1	2.30	Preservation of Nesting Vegetation	During construction	C – Completed in
			<ul> <li>The proposed daylighting location and the arrangement of connecting pipeline will avoid the need of tree cutting, therefore the trees that are used by ardeids for nesting will be preserved.</li> </ul>	phase at Sheung Sha Chau Island	Jan 2019



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
12.7.2.4 and 12.7.2.6	9.1	2.30	Timing the Pipe Connection Works outside Ardeid's Breeding Season  All HDD and related construction works on Sheung Sha Chau Island will be scheduled outside the ardeids' breeding season (between April and July). No night-time construction work will be allowed on Sheung Sha Chau Island during all seasons.	During construction phase at Sheung Sha Chau Island	C – Completed in Jan 2019
12.10.1.1	9.3	-	<ul> <li>Ecological Monitoring</li> <li>During the HDD construction works period from August to March, ecological monitoring will be undertaken monthly at the HDD daylighting location on Sheung Sha Chau Island to identify and evaluate any impacts with appropriate actions taken as required to address and minimise any adverse impact found.</li> </ul>	at Sheung Sha Chau Island	C – Completed in Jan 2019
			Marine Ecological Impact – Pre-construction Phase		
13.11.4.1	10.2.2	-	■ Pre-construction phase Coral Dive Survey.	HKIAAA artificial seawall	C – Completed in Jan 2016
			Marine Ecological Impact – Construction Phase		
13.11.1.3 to 13.11.1.6	-	-	<ul> <li>Minimisation of Land Formation Area</li> <li>Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for marine resources, especially the CWD population.</li> </ul>	Land formation footprint / during detailed design phase to completion of construction	I
13.11.1.7 to 13.11.1.10	-	2.31	Use of Construction Methods with Minimal Risk/Disturbance  Use of non-dredge method for the main land formation and ancillary works including the diversion of the aviation fuel pipeline to the AFRF;	During construction phase at marine works area	C – Completed in Jan 2019 for diversion of aviation fuel pipeline
			<ul> <li>Use of Deep Cement Mixing (DCM) method instead of conventional seabed dredging for the land formation works to reduce the risk of negative impacts through the elevation of suspended solids and contaminants on CWDs, fisheries and the marine environment;</li> </ul>		C – Completed in Apr 2022
			<ul> <li>Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway;</li> </ul>		C – Completed in Oct 2021 for new approach lights
			<ul> <li>Avoid bored piling during CWD peak calving season (Mar to Jun);</li> </ul>	_	N/A for marker beacons as HKIAAA Marker Beacons would be replaced by buoys



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			■ Prohibition of underwater percussive piling; and		N/A as no water piling
			<ul> <li>Use of horizontal directional drilling (HDD) method and water jetting methods for placement of submarine cables and pipelines to minimise the disturbance to the CWDs and other marine ecological resources.</li> </ul>		C – Completed in Jan 2019 for HDD works
13.11.2.1	-	-	Mitigation for Indirect Disturbance due to Deterioration of Water Quality	All works area during the construction phase	
to 13.11.2.7			<ul> <li>Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices;</li> </ul>		1
			<ul> <li>Alternative construction methods including use of non-dredge methods for ground improvement (e.g. Deep Cement Mixing (DCM), prefabricated vertical drains (PVD), sand compaction piles, steel cells, stone columns and vertical sand drains);</li> </ul>		C – Completed in Apr 2022
			<ul> <li>Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and</li> </ul>		C – Completed in Oct 2021 for new approach lights
			<ul> <li>Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to the CWDs and other marine ecological resources.</li> </ul>	•	C – Completed in Jan 2019 for HDD works
13.11.1.12	! -	-	Strict Enforcement of No-Dumping Policy	All works area during	1
			<ul> <li>A policy prohibiting dumping of wastes, chemicals, oil, trash, plastic, or any other substance that would potentially be harmful to dolphins and/or their habitat in the work area;</li> </ul>	the construction phase	
			<ul> <li>Mandatory educational programme of the no-dumpling policy be made available to all construction site personnel for all project-related works;</li> </ul>		
			<ul> <li>Fines for infractions should be implemented; and</li> </ul>		
			<ul> <li>Unscheduled, on-site audits shall be implemented.</li> </ul>		
13.11.1.13	-	-	<ul> <li>Good Construction Site Practices</li> <li>Regular inspection of the integrity and effectiveness of all silt curtains and monitoring of effluents to ensure that any discharge meets effluent discharge guidelines;</li> <li>Keep the number of working or stationary vessels present on-site to the minimum anytime; and</li> <li>Unscheduled, on-site audits for all good site practice restrictions should be conducted, and fines or penalties sufficient to be an effective deterrent need to be levied against violators.</li> </ul>	All works area during the construction phase	I
13.11.1.3 to 13.11.1.6	-	-	Minimisation of Land Formation Area	Land formation footprint / during detailed design phase	I



EIA Ref.	EM&A Ref.	A EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
			• Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for marine resources, especially the CWD population.	to completion of construction	
13.11.5.4	10.3.1	-	SkyPier High Speed Ferries' Speed Restrictions and Route Diversions	Area between the	1
to 13.11.5.13			SkyPier HSFs operating to / from Zhuhai and Macau would divert north of SCLKC Marine Park with a 15 knot speed limit to apply for the part-journeys that cross high CWD abundance grid squares as indicatively shown in Drawing No. MCL/P132/EIA/13-023 of the EIA Report. Both the alignment of the northerly route and the portion of routings to be subject to the speed limit of 15 knots shall be finalised prior to commencement of construction based on the future review of up-to-date CWD abundance and EM&A data and taking reference to changes in total SkyPier HSF numbers; and	footprint and SCLKC Marine Park during construction phase	
			■ A maximum of 10 knots will be enforced through the designated SCLKC Marine Park area at all times.		
			Other mitigation measures  The ET will audit various parameters including actual daily numbers of HSFs, compliance with the 15-knot	Area between the footprint and SCLKC	1
			speed limit in the speed control zone and diversion compliance for SkyPier HSFs operating to / from Zhuhai and Macau; and	Marine Park during construction phase	C. Completed in
			• The effectiveness of the CWD mitigation measures after implementation of initial six month SkyPier HSF diversion and speed restriction will be reviewed.		C – Completed in Sep 2016
13.11.5.14 to 13.11.5.18	10.3.1		<ul> <li>Establishment of a 24 hr Dolphin Exclusion Zone (DEZ) with a 250 m radius around the land formation</li> </ul>	Marine waters around land formation works area during construction phase	1
			<ul> <li>A DEZ would also be implemented during ground improvement works (e.g. DCM), water jetting works for submarine cables diversion, open trench dredging at the field joint locations and seawall construction; and</li> </ul>	•	C – Completed in Apr 2022
			<ul> <li>A DEZ would also be implemented during bored piling work but as a precautionary measure only.</li> </ul>		C – Completed in Oct 2021 for the bored piling work of New approach lights
13.11.5.19	10.4	2.31	Acoustic Decoupling of Construction Equipment	Around coastal works	1
			<ul> <li>Air compressors and other noisy equipment that must be mounted on steel barges should be acoustically- decoupled to the greatest extent feasible, for instance by using rubber or air-filled tyres; and</li> </ul>	area during construction phase	
			<ul> <li>Specific acoustic decoupling measures shall be specified during the detailed design of the project for use during the land formation works.</li> </ul>		
13.11.5.20	10.6.1	2.29	Spill Response Plan	Construction phase	1



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			• An oil and hazardous chemical spill response plan is proposed to be established during the construction phase as a precautionary measure so that appropriate actions to prevent or reduce risks to CWDs can be undertaken in the event of an accidental spillage.		
13.11.5.21	10.6.1	-	Construction Vessel Speed Limits and Skipper Training	All areas north and	ı
to 13.11.5.23			<ul> <li>A speed limit of 10 knots should be strictly observed for construction vessels at areas with the highest CWD densities (as currently indicated by the 1x1km grid squares in Figure 6 of Appendix 13.2 of EIA report).</li> </ul>	west of Lantau Island during construction phase	
			<ul> <li>Vessels traversing through the work areas should be required to use predefined and regular routes (which would presumably become known to resident dolphins) to reduce disturbance to cetaceans due to vessel movements. Specific marine routes shall be specified by the Contractor prior to construction commencing.</li> </ul>		
			Fisheries Impact - Construction Phase		
14.9.1.2 to 14.9.1.5	-		<ul> <li>Minimisation of Land Formation Area</li> <li>Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for fisheries resources.</li> </ul>	Land formation footprint / during detailed design phase to completion of construction	I
14.9.1.6	-	-	Use of Construction Methods with Minimal Risk/Disturbance	During construction	C – Completed in
			<ul> <li>Use of non-dredge method for the main land formation and ancillary works including the diversion of the aviation fuel pipeline to the AFRF;</li> </ul>	phase at marine works area	Jan 2019 for diversion of aviation fuel pipeline
			<ul> <li>Use of Deep Cement Mixing (DCM) method instead of conventional seabed dredging for the land formation works to reduce the risk of negative impacts through the elevation of suspended solids and contaminants on fisheries and the marine environment;</li> </ul>		C – Completed in Apr 2022
			Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and		C – Completed in Oct 2021 for new approach lights N/A for marker beacons as HKIAAA Marker Beacons would be replaced by buoys



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			<ul> <li>Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to fisheries resources.</li> </ul>		C – Completed in Jan 2019 for HDD works
14.9.1.11	-		Strict Enforcement of No-Dumping Policy	All works area during the construction phase	I
			<ul> <li>A policy prohibiting dumping of wastes, chemicals, oil, trash, plastic, or any other substance that would potentially be harmful to dolphins and/or their habitat in the work area;</li> </ul>		
			<ul> <li>Mandatory educational programme of the no-dumpling policy be made available to all construction site personnel for all project-related works;</li> </ul>		
			<ul><li>Fines for infractions should be implemented; and</li></ul>		
			<ul> <li>Unscheduled, on-site audits shall be implemented.</li> </ul>		
14.9.1.12	-		Good Construction Site Practices	All works area during	1
			<ul> <li>Regular inspection of the integrity and effectiveness of all silt curtains and monitoring of effluents to ensure that any discharge meets effluent discharge guidelines;</li> </ul>	the construction phase	
			<ul> <li>Keep the number of working or stationary vessels present on-site to the minimum anytime; and</li> </ul>		
			<ul> <li>Unscheduled, on-site audits for all good site practice restrictions should be conducted, and fines or penalties sufficient to be an effective deterrent need to be levied against violators.</li> </ul>		
14.9.1.13	-	-	Mitigation for Indirect Disturbance due to Deterioration of Water Quality	All works area during the construction phase	1
to 14.9.1.18			<ul> <li>Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices;</li> </ul>		
			Alternative construction methods including use of non-dredge methods for ground improvement (e.g. Deep Cement Mixing (DCM), prefabricated vertical drains (PVD), sand compaction piles, steel cells, stone columns and vertical sand drains);		C – Completed in Apr 2022
			<ul> <li>Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and</li> </ul>		C – Completed in Oct 2021 for new approach lights N/A for marker beacons as HKIAAA Marker Beacons would be replaced by buoys
			<ul> <li>Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to fisheries resources.</li> </ul>		C – Completed on Jan 2019 for HDD work



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Landscape and Visual Impact – Construction Phase		
Table 15.6	12.3	-	<b>CM1</b> - The construction area and contractor's temporary works areas should be minimised to avoid impacts on adjacent landscape.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	CM2 - Reduction of construction period to practical minimum.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	CM3 - Phasing of the construction stage to reduce visual impacts during the construction phase.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	<b>CM4 -</b> Construction traffic (land and sea) including construction plants, construction vessels and barges should be kept to a practical minimum.	All works areas for duration of works; Upon handover and completion of works.	1
Table 15.6	12.3	-	CM5 - Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours.	All works areas for duration of works; Upon handover and completion of works. – may be disassembled in phases.	I
Table 15.6	12.3	-	CM6 - Avoidance of excessive height and bulk of site buildings and structures.	New passenger concourse, terminal 2 expansion and other proposed airport related buildings and structures under the project; Upon handover and completion of works.	1



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
Table 15.6	12.3	-	CM7 - Control of night-time lighting by hooding all lights and through minimisation of night working periods.	All works areas for duration of works;	I
				Upon handover and completion of works. – may be disassembled in phases.	
Table 15.6	12.3	-	, i	All existing trees to be retained:	1
				Upon handover and completion of works.	
Table 15.6	12.3	-	<b>CM9 -</b> Trees unavoidably affected by the works shall be transplanted where practical. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, if applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme.	All existing trees to be affected by the works:	1
				Upon handover and completion of works.	
Table 15.6	12.3	-	<b>CM10 -</b> Land formation works shall be followed with advanced hydroseeding around taxiways and runways as soon as practical.	All affected existing grass areas around runways and verges/Duration of works;	I
				Upon handover and completion of works.	
			Cultural Heritage Impact – Construction Phase		
			Not applicable to the construction stage of this project.		
			Health Impact – Aircraft Emissions		
			Not applicable to the construction stage of this project.		
			Health Impact – Aircraft Noise		
			Not applicable to the construction stage of this project.		

## Notes:

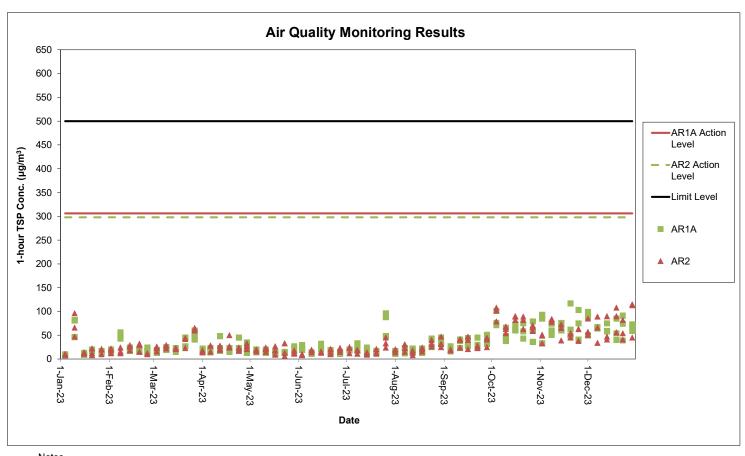
<sup>&</sup>quot; - " For items denoted as " - " provided under the columns of EM&A Ref. or EP Condition, environmental protection measures should be referred to the relevant paragraph(s) / table(s) in the approved EIA Report.



- "I" Implemented and on-going where applicable.
- " N/A" Not applicable to the construction works implemented during the reporting month.
- " ^ " Checked by ET through site inspection and record provided by the Contractor.
- "C" Construction works completed.

# **Appendix D. Monitoring Results**

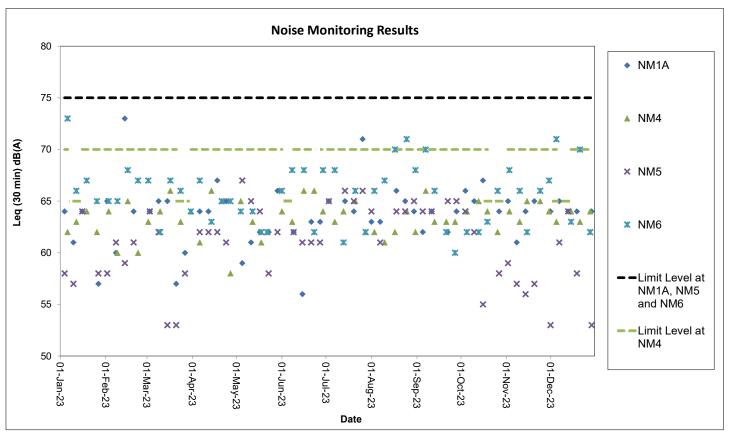
**Air Quality Monitoring Results** 



## Notes

- 1. The key activities of the Project carried out in the reporting period are located in reclamation areas and existing airport island respectively. Works in the reclamation areas included seawall construction, rock armour laying works, filling and land-based ground improvement works, pavement works, concourse superstructure works, tunnel work for Automated People Mover (APM) and Baggage Handling System (BHS) and associated works. Land-based works on existing airport island involved mainly airfield works, Terminal 2 expansion works, modification and tunnel work for APM and BHS systems, and preparation work for utilities, with activities include road and drainage works, cable ducting, demolition, piling, and excavation works and 132kV cable laying.
- 2. General weather condition during monitoring ranged from sunny to overcast. Detailed meteorological conditions should be referred to Table 2.3 of this Report and corresponding Monthly EM&A Reports.
- 3. QA/ QC requirements as stipulated in the EM&A Manual was carried out during measurement.

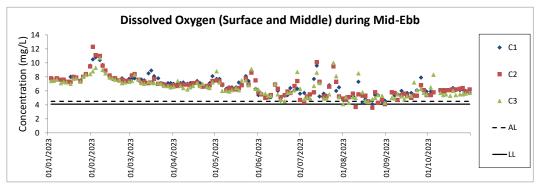
**Noise Monitoring Results** 

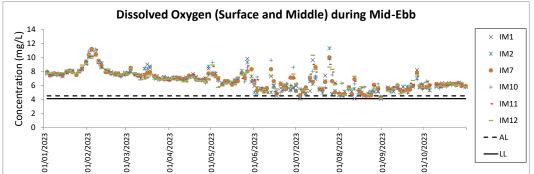


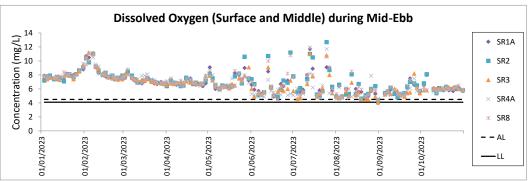
# Notes

- 1. The Limit Level is reduced to 70dB(A) for school and 65db(A) during school examination period at NM4. School examination took place from 9 to 13 January, 23 to 29 March, 2 to 3, 9 to 10, 30 to 31 May, 7 to 8 June, 18 July, 20 to 27 October, and 6 to 13 December during this reporting period.
- 2. Noise monitoring at NM3A was temporarily suspended starting from 1 Sep 2018 and would be resumed with the completion of the Tung Chung East Development.
- 3. The key activities of the Project carried out in the reporting period are located in reclamation areas and existing airport island respectively. Works in the reclamation areas included seawall construction, rock armour laying works, filling and land-based ground improvement works, pavement works, concourse superstructure works, tunnel work for Automated People Mover (APM) and Baggage Handling System (BHS) and associated works. Land-based works on existing airport island involved mainly airfield works, Terminal 2 expansion works, modification and tunnel work for APM and BHS systems, and preparation work for utilities, with activities include road and drainage works, cable ducting, demolition, piling, and excavation works and 132kV cable laying.
- 4. General weather condition during monitoring ranged from sunny to drizzle. Detailed meteorological conditions should be referred to Table 2.6 of this Report and corresponding Monthly EM&A Reports.
- 5. QA/ QC requirements as stipulated in the EM&A Manual was carried out during measurement.

Water Quality Monitoring:
Part I- General Impact Water
Quality Monitoring Results





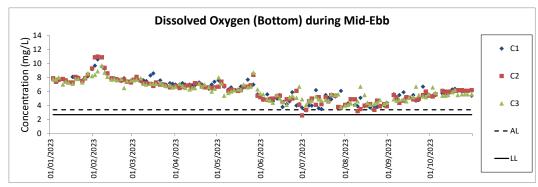


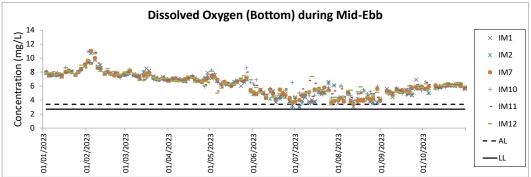
Notes:

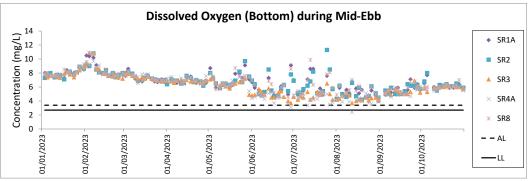
The key activities of the Project during monitoring included during monitoring included rock armour laying works, land improvement works and filling, together with taxiways, concourse and associated works on the reclamation areas; and land-based works involved tunnel work, utilities works, road and drainage works. General weather condition during monitoring ranged from sunny to rainy, with sea condition ranged from calm to rough. Detailed meteorological conditions can be referred to Table 2.10 of this Report and corresponding Monthly EM&A Reports.

QA/ QC requirements as stipulated in the EM&A Manual were carried out during measurement.

The water quality impact monitoring was terminated after 31 October 2023.







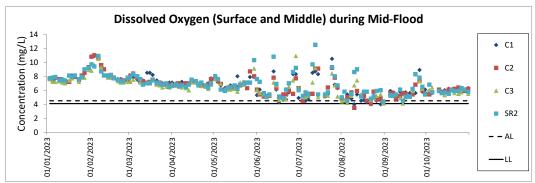
Notes:

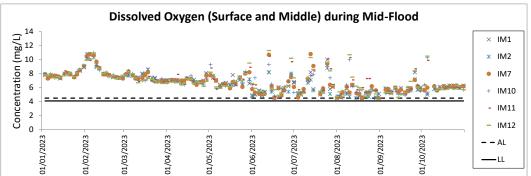
The key activities of the Project during monitoring included during monitoring included rock armour laying works, land improvement works and filling, together with taxiways, concourse and associated works on the reclamation areas; and land-based works involved tunnel work, utilities works, road and drainage works.

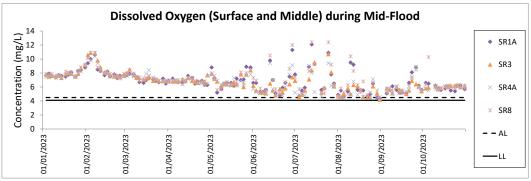
General weather condition during monitoring ranged from sunny to rainy, with sea condition ranged from calm to rough. Detailed meteorological conditions can be referred to Table 2.10 of this Report and corresponding Monthly EM&A Reports.

QA/ QC requirements as stipulated in the EM&A Manual were carried out during measurement.

The water quality impact monitoring was terminated after 31 October 2023.







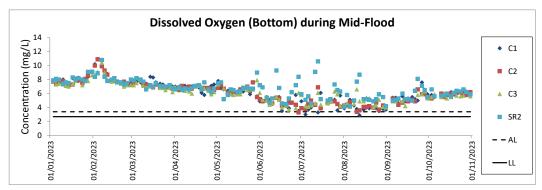
Notes:

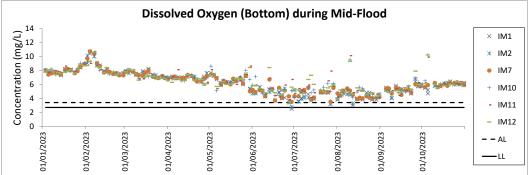
1. The key activities of the Project during monitoring included during monitoring included rock armour laying works, land improvement works and filling, together with taxiways, concourse and associated works on the reclamation areas; and land-based works involved tunnel work, utilities works, road and drainage works.

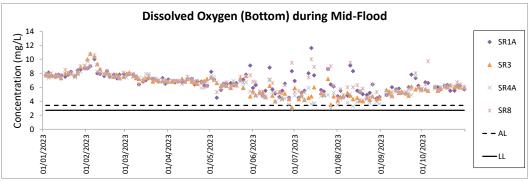
2. General weather condition during monitoring ranged from sunny to rainy, with sea condition ranged from calm to rough. Detailed meteorological conditions can be referred to Table 2.10 of this Report and corresponding Monthly EM&A Reports.

3. QA/ QC requirements as stipulated in the EM&A Manual were carried out during measurement.

4. The water quality impact monitoring was terminated after 31 October 2023.







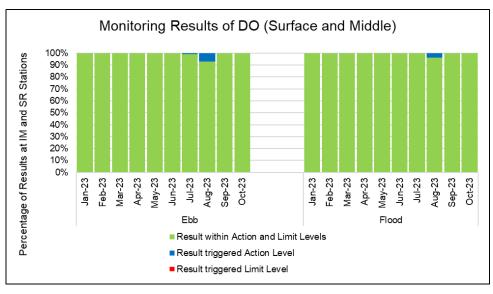
Notes:

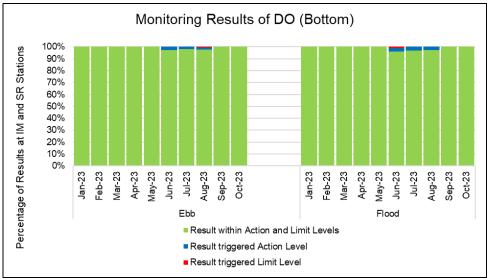
1. The key activities of the Project during monitoring included during monitoring included rock armour laying works, land improvement works and filling, together with taxiways, concourse and associated works on the reclamation areas; and land-based works involved tunnel work, utilities works, road and drainage works.

2. General weather condition during monitoring ranged from sunny to rainy, with sea condition ranged from calm to rough. Detailed meteorological conditions can be referred to Table 2.10 of this Report and corresponding Monthly EMSA Reports.

3. QA/ QC requirements as stipulated in the EMSA Manual were carried out during measurement.

4. The water quality impact monitoring was terminated after 31 October 2023.

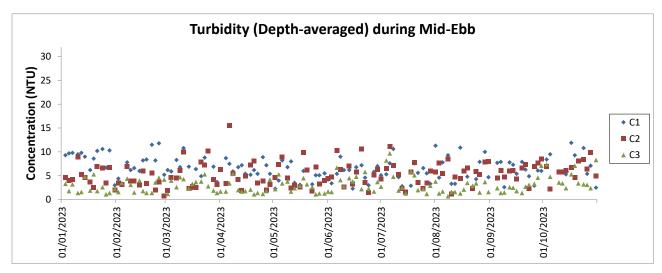


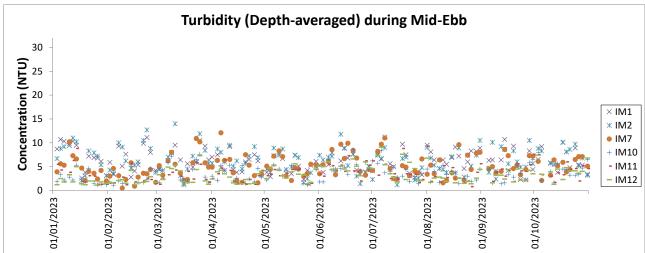


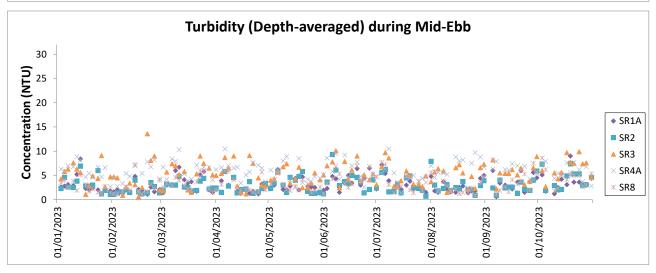
During January 2023 to October 2023, for ebb tide monitoring results of DO at surface and middle level, all DO monitoring results from January to June, September to October 2023 were observed within the Action and Limit Level. Besides, 99.2% of the monitoring results in July 2023 and 92.9% of monitoring results in August 2023 were within the Action or Limit Level. For flood tide monitoring of DO at surface and middle level, all DO monitoring results from January to July, September to October 2023 were observed within the Action and Limit Level, while 96.4% of the DO monitoring results in August 2023 were within the Action or Limit Level. Overall, 99.4% of the DO monitoring results at surface and middle water level from January to October 2023 were within the Action or Limit Level.

For ebb tide monitoring results of DO at bottom level, all DO monitoring results from January to May, September to October 2023 were found to be within the Action and Limit Level, while 97.4% of the monitoring results in June 2023, 98.3% of the results in July 2023 and 98.4% of the results in August 2023 were within the Action or Limit Level. For flood tide monitoring of DO at bottom level, all DO monitoring results from January to May, September to October 2023 were found to be within the Action and Limit Level, while 97.1% of the results in June 2023, 96.9% of the results in July 2023 and 97.3% of the results in August 2023 were within the Action or Limit Level. Overall, 99.2% of the DO monitoring results at bottom water level from January to October 2023 were within the corresponding Action or Limit Level.

All results triggering the corresponding Action or Limit level were collected during the wet season (June to September), particularly in June, July and August, which suggest the observation of seasonal effect on the DO monitoring results. Based on above observations, as well as the relevant investigation findings presented in the Construction Phase Monthly EM&A Reports, it is considered that the Project did not cause adverse impact on DO level at all water quality sensitive receivers.

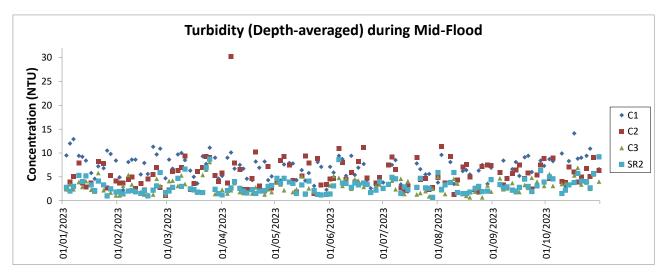


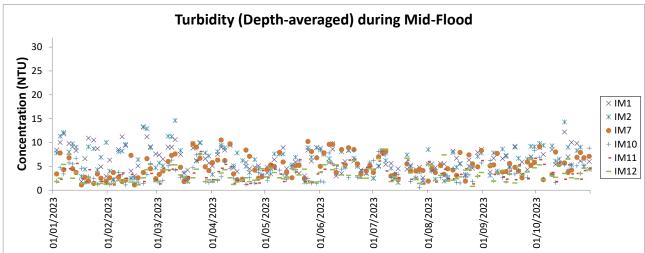


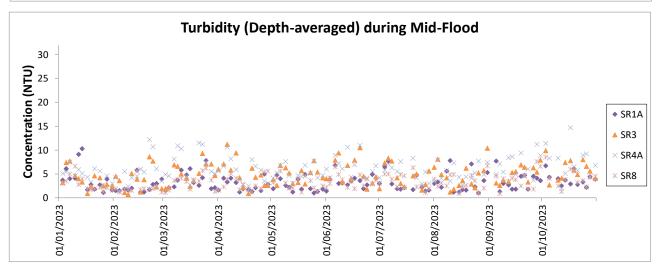


- 1. The Action and Limit Levels can be referred to Table 2.8 of this Report.
- 2. The key activities of the Project during monitoring included during monitoring included rock armour laying works, land improvement works and filling, together with taxiways, concourse and associated works on the reclamation areas; and land-based works involved tunnel work, utilities works, road and drainage works.

General weather condition during monitoring ranged from sunny to rainy, with sea condition ranged from calm to rough. Detailed meteorological conditions can be referred to Table 2.11 of this Report and corresponding Monthly EM&A Reports.
 QA/ QC requirements as stipulated in the EM&A Manual were carried out during measurement.
 The water quality impact monitoring was terminated after 31 October 2023.



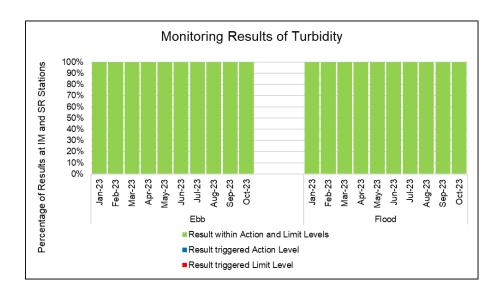




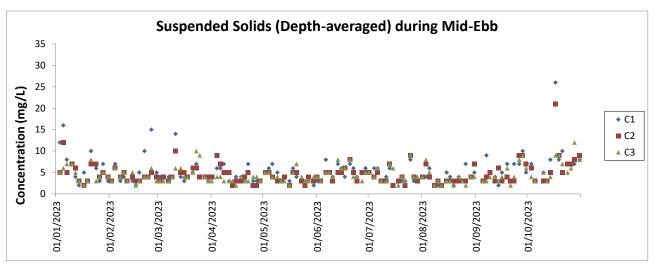
- 1. The Action and Limit Levels can be referred to Table 2.8 of this Report.
- The key activities of the Project during monitoring included during monitoring included rock armour laying works, land improvement works and filling, together with taxiways, concourse and associated works on the reclamation areas; and land-based works involved tunnel work, utilities works, road and drainage works.

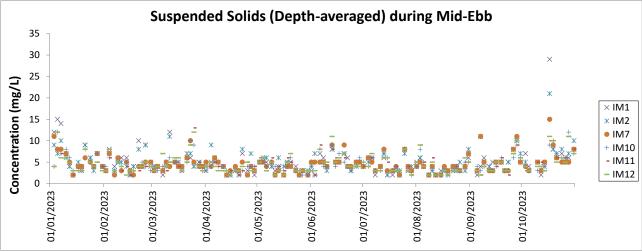
- 2.11 of this Report and corresponding Monthly EM&A Reports.
   QA/ QC requirements as stipulated in the EM&A Manual were carried out during measurement.
   The water quality impact monitoring was terminated after 31 October 2023.

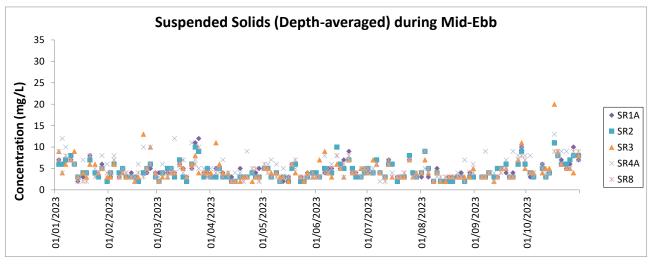
General weather condition during monitoring ranged from sunny to rainy, with sea condition ranged from calm to rough. Detailed meteorological conditions can be referred to Table



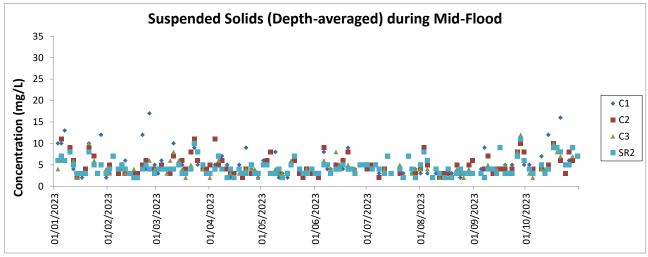
All turbidity monitoring results from January to October 2023 were within the corresponding Action and Limit Levels.

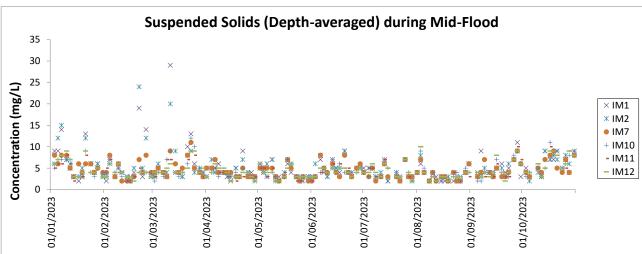


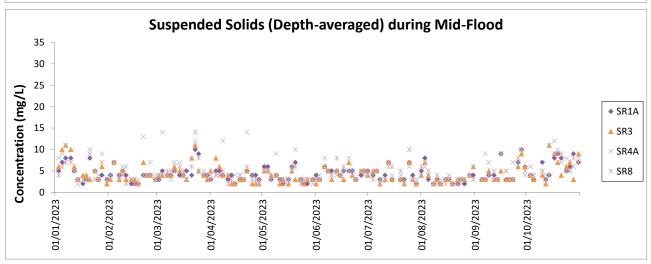




- 1. The Action and Limit Levels can be referred to Table 2.8 of this Report.
- The key activities of the Project during monitoring included during monitoring included rock armour laying works, land improvement works and filling, together with taxiways, concourse and associated works on the reclamation areas; and land-based works involved tunnel work, utilities works, road and drainage works.
- General weather condition during monitoring ranged from sunny to rainy, with sea condition ranged from calm to rough. Detailed meteorological conditions can be referred to Table Carto fithis Report and corresponding Monthly EM&A Reports.
   QA/ QC requirements as stipulated in the EM&A Manual were carried out during measurement.
   The water quality impact monitoring was terminated after 31 October 2023.

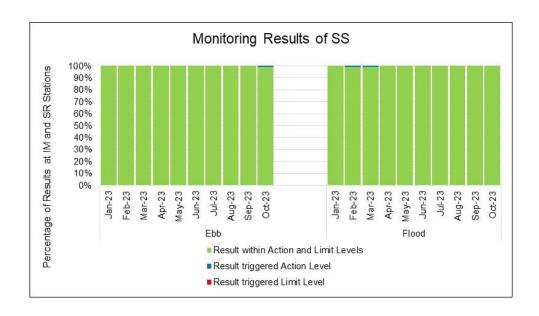






- 1. The Action and Limit Levels can be referred to Table 2.8 of this Report.
- The key activities of the Project during monitoring included during monitoring included rock armour laying works, land improvement works and filling, together with taxiways, concourse and associated works on the reclamation areas; and land-based works involved tunnel work, utilities works, road and drainage works.
- General weather condition during monitoring ranged from sunny to rainy, with sea condition ranged from calm to rough. Detailed meteorological conditions can be referred to Table 2.11 of this Report and corresponding Monthly EM&A Reports.

  QA/ QC requirements as stipulated in the EM&A Manual were carried out during measurement. The water quality impact monitoring was terminated after 31 October 2023.



During January 2023 to October 2023, for ebb tide monitoring results of SS, all SS monitoring results from January to September 2023 were found to be within the corresponding Action and Limit Level, while 99.2% of the monitoring results in October 2023 were within the Action or Limit Level. For flood tide monitoring SS, all SS monitoring results in January, and from April to October 2023 were within the Action and Limit Level, and 99.2% of the SS monitoring results in February 2023 and 99.2% of the results in March 2023 were within the Action or Limit Level. Overall, 99.9% of the SS monitoring results from January to October 2023 were within the Action or Limit Level.

Due to the small number of results triggering the Action or Limit Levels, and the relevant investigation findings presented in the Construction Phase Monthly EM&A Reports, it is considered that the Project did not cause adverse impact on SS level at all water quality sensitive receivers.

Water Quality Monitoring:
Part II- Summary of Post-construction Phase
Water Quality Monitoring Results

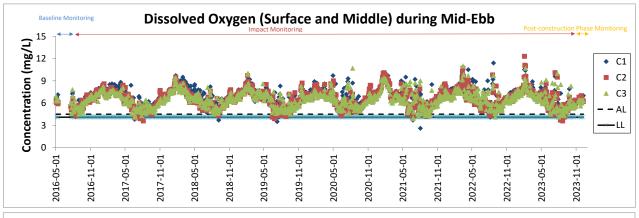
Summary of the Post-construction Phase Water Quality Monitoring Results

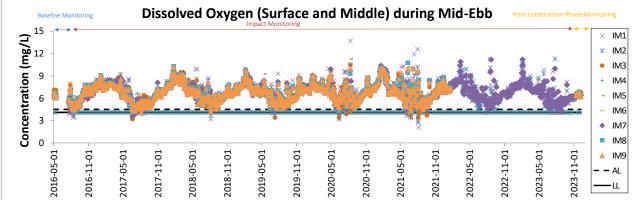
DOSUMER-MINISTRICE   DOSTRICE   MINISTRICE   DOSTRICE	Summary of the Post-construction Phase Water Quality Monitoring Results														
C1	Station	•	,, ,,	•	,, , ,		, ,								
Color   Colo															Flood Tide
(6.1-7.0)   (6.1-6.9)   (6.1-6.9)   (6.1-6.9)   (6.1-6.9)   (6.1-6.9)   (1.4-13.9)   (1.0-14.3)   (2.19)   (2.19)   (7.99)   (7.99)   (2.2-0.2)   (0.2-0.2)   (0.2-0.2)   (0.3-1.8)   (0.2-0.2)   (0.2-0.2)   (0.3-1.8)   (0.2-0.2)   (0.2-0.2)   (0.3-1.8)   (0.3-0.2)   (0.3-0.2)   (0	C1										-			_	0.7
CT		,	. ,	,	. ,				. ,		/	. ,	, ,	. ,	(0.4-1.1)
C2-71   C3   C3   C4   C5   C5   C5   C5   C5   C5   C5	C2		_		-		_	="	-		_	-	-		0.8
GS   GS   GS   GS   GS   GS   GS   GS	<u> </u>						. ,		(2-9)	, ,	· '				(0.6-1.3)
(65-66)   (65-66)   (65-67)   (65-	C3									-	-				0.8
Mart   (6.3-7.1)   (6.1-8.8)   (6.2-6.7)   (6.1-6.7)   (2.1-13.9)   (1.01-14.9)   (2.18)   (2.25)   (7.9-91)   (8.2-9.3)   (0.2-0.3)   (	-	(5.5-6.6)	(5.9-6.4)	(5.4-6.9)	(5.9-6.9)	(1.1-9.0)	. ,	(2-9)	(2-8)	. ,	(43-90)		(0.2-0.2)		(0.4-1.2)
(6.3-7.1)	IM1	6.4	6.4	6.4	6.4	6.3	6.1	6	6	85	87	0.2	0.2	0.7	0.7
MA		(6.3-7.1)	(6.1-6.8)	(6.2-6.7)	(6.1-6.7)	(2.1-13.9)	(1.0-14.9)	(2-18)	(2-25)	(73-91)	(82-93)	(0.2-0.3)	(0.2-0.3)	(0.4-0.9)	(0.4-0.9)
(6.1-6.5)   (6.2-6.8)   (6.1-6.6)   (6.1-6.7)   (1.9-11.8)   (1.7-13.0)   (2.16)   (2.22)   (48-94)   (46-92)   (0.2-0.2)   (0.2-0.2)   (0.4-0.9)	IM2	6.4	6.4	6.4	6.4	5.2	6.1	6	6	85	86	0.2	0.2	0.7	0.7
MA	IIVIZ	(6.1-6.9)	(6.2-6.8)	(6.1-6.6)	(6.1-6.7)	(1.9-11.8)	(1.7-13.0)	(2-16)	(2-22)	(45-94)	(46-92)	(0.2-0.2)	(0.2-0.2)	(0.4-0.9)	(0.4-1.1)
(6.1-6.8) (6.2-6.9) (6.1-6.7) (6.2-6.7) (1.9-15.4) (1.7-14.3) (2.22) (2.21) (4.6-03) (4.4-95) (0.2-0.3) (0.2-0.2) (0.4-0.9) (1.0-0.7) (1	IMO	6.4	6.4	6.4	6.4	5.7	6.0	6	5	86	87	0.2	0.2	0.7	0.7
MS   (6,2-7,0)   (6,1-7,0)   (6,3-6,7)   (6,1-6,6)   (1,6-13,8)   (1,3-13,9)   (2-16)   (2-19)   (79-93)   (82-95)   (0,2-0.2)   (0,2-0.3)   (0,4-0.9)   (1,1-13,8)   (1,1-13,8)   (1,1-13,8)   (2-21)   (2-27)   (69-91)   (46-92)   (0,2-0.2)   (0,2-0.3)   (0,4-0.9)   (1,1-13,8)   (1,1-13,8)   (1,1-13,8)   (2-21)   (2-27)   (69-91)   (46-92)   (0,2-0.2)   (0,2-0.3)   (0,4-0.9)   (1,1-13,8)   (	IIVIS	(6.1-6.8)	(6.2-6.9)	(6.1-6.7)	(6.2-6.7)	(1.9-15.4)	(1.7-14.3)	(2-22)	(2-21)	(46-93)	(44-95)	(0.2-0.3)	(0.2-0.2)	(0.4-0.9)	(0.4-1.0)
(62-7.0)   (63-6.7)   (63-6.7)   (63-6.8)   (61-6.8)   (1.6-13.8)   (1.3-13.9)   (2-16)   (2-19)   (79-93)   (82-95)   (0.2-0.2)   (0.2-0.2)   (0.2-0.3)   (0.4-0.9)   (0.2-0.8)   (0.6-6.8)   (6.1-6.6)   (6.1-6.7)   (6.1-6.1)   (6.1-1.0)   (6.1-	1844	6.5	6.4	6.5	6.4	5.6	5.7	5	6	86	88	0.2	0.2	0.7	0.7
	IIVI4	(6.2-7.0)	(6.1-7.0)	(6.3-6.7)	(6.1-6.6)	(1.6-13.8)	(1.3-13.9)	(2-16)	(2-19)	(79-93)	(82-95)	(0.2-0.2)	(0.2-0.3)	(0.4-0.9)	(0.4-1.0)
	IME		6.4		6.4	4.8	. ,	· '	` '	. ,				0.7	0.7
M6	IIVI5		(6.1-6.6)	(6.2-6.8)	(6.1-6.6)	(1.1-13.8)	(1.1-13.8)	(2-21)	(2-27)	(69-91)	(46-92)	(0.2-0.2)		(0.4-0.9)	(0.4-1.0)
MR									. ,						0.7
M7	IM6								-					_	(0.4-1.0)
MR		, ,	. ,	, ,		,		, ,	, ,		/	, ,	, ,	, ,	0.7
MB   6.5   6.5   6.6   6.6   6.6   4.2   4.5   5   3   80   79   0.2   0.2   0.2   0.8   (6.2-7.0)   (6.2-6.9)   (6.3-7.1)   (6.2-7.0)   (0.9-10.9)   (0.4-13.9)   (2-8)   (2-7)   (44-92)   (44-91)   (0.2-0.2)   (0.2-0.2)   (0.4-1.3)   (44-92)   (44-91)   (0.2-0.2)   (0.2-0.2)   (0.4-1.3)   (1.4-10.5)   (1.1-10.5)   (2-10)   (2-7)   (43-91)   (43-91)   (0.2-0.3)   (0.2-0.2)   (0.2-0.2)   (0.5-1.3)   (6.0-6.9)   (6.1-6.8)   (6.3-7.1)   (6.2-7.0)   (0.5-10.8)   (1.1-10.5)   (2-10)   (2-7)   (43-91)   (43-91)   (0.2-0.3)   (0.2-0.2)   (0.2-0.2)   (0.5-1.3)   (0.6-0.9)   (6.1-6.7)   (6.3-7.1)   (6.2-7.0)   (0.5-10.8)   (1.1-10.6)   (2-9)   (2-6)   (48-91)   (48-90)   (0.2-0.2)   (0.2-0.2)   (0.5-1.3)   (0.5-1.3)   (0.6-0.9)   (0.6-	IM7														(0.4-1.0)
MB   (6.2-7.0)   (6.2-6.9)   (6.3-7.1)   (6.2-7.0)   (0.9-10.9)   (0.4-13.9)   (2-8)   (2-7)   (44-92)   (44-91)   (0.2-0.2)   (0.2-0.2)   (0.4-1.3)   (1.9-0.1)		, ,				_ `	. ,	, ,	` '	, ,				, ,	0.8
MM9	IM8						-		-		-	-	-		(0.6-1.2)
M9   (6.0-6.9)   (6.1-6.8)   (6.3-7.1)   (6.2-7.0)   (0.7-8.2)   (1.1-10.5)   (2-10)   (2-7)   (43-91)   (43-91)   (0.2-0.3)   (0.2-0.2)   (0.5-1.3)   (0.6-1.3)   (0.6-8.9)   (6.1-6.7)   (6.2-7.0)   (0.5-1.0.8)   (1.1-10.6)   (2-9)   (2-6)   (48-91)   (48-90)   (0.2-0.2)   (0.2-0.2)   (0.5-1.3)   (0.2-0.2)   (0.5-1.3)   (0.6-0.9)   (0.6-0			. ,							_ ,				_ `	0.8
MM10	IM9					_		-	-			-	-		(0.6-1.2)
M10   (6.0-6.9)   (6.1-6.7)   (6.3-7.1)   (6.2-7.0)   (0.5-10.8)   (1.1-10.6)   (2-9)   (2-6)   (48-91)   (48-90)   (0.2-0.2)   (0.2-0.2)   (0.5-1.3															0.8
MM11	IM10														
M11			. ,												(0.6-1.2) 0.8
M12	IM11		_			_		•				-	-		
No.		. ,	. ,			. ,	. ,				· /				(0.4-1.2)
SR1A         6.5 (6.0-6.9)         6.4 (6.1-6.8)         6.7 (6.4-7.0)         6.6 (6.3-7.0)         3.1 (0.7-6.0)         4.1 (0.7-10.6)         5 (2-8)         4 (2-7)         1         2         2         2         1         2         1         2         1         2         <	IM12														0.8
SRTA         (6.0-6.9)         (6.1-6.8)         (6.4-7.0)         (6.3-7.0)         (0.7-6.0)         (0.7-10.6)         (2-8)         (2-7)         The control of the con										(45-91)	(45-90)	(0.2-0.2)	(0.2-0.2)	(0.4-1.2)	(0.4-1.2)
SR2         6.6 (6.0-6.9)         6.5 (6.3-6.8)         6.7 (6.4-7.0)         6.6 (0.9-8.7)         4.2 (0.9-12.0)         4.2 (2-9)         4.2 (2-9)         4.2 (2-9)         4.2 (2-9)         4.3 (2-9)<	SR1A		-			_				-	-	-	-	-	-
SR2         (6.0-6.9)         (6.3-6.8)         (6.0-7.2)         (6.4-7.0)         (0.9-8.7)         (0.5-12.0)         (2-9)         (2-6)         (43-102)         (43-102)         (0.2-0.2)         (0.2-0.2)         (0.5-1.3)           SR3         6.5         6.5         6.6         6.6         4.0         3.4         4			. ,												
SR3         (6.0-6.9)         (6.3-6.8)         (6.0-7.2)         (6.4-7.0)         (0.9-8.7)         (0.5-12.0)         (2-9)         (2-6)         (43-102)         (43-102)         (0.2-0.2)         (0.2-0.2)         (0.5-1.3)           SR3         6.5         6.5         6.6         6.6         4.0         3.4         4         4         -	SR2							="	-	_		-	-		0.8
SR3         (6.3-6.7)         (6.3-7.1)         (6.4-7.0)         (6.3-7.1)         (1.1-11.3)         (0.5-8.3)         (2-8)         (2-9)         (2-9)         (2-9)         (2-9)         (2-9)         (2-9)         (2-9)         (2-12)         (2-9)         (2-12)         (2-9)         (2-12)         (2-12)         (2-12)         (2-12)         (2-12)         (2-12)         (2-12)         (2-12)         (2-12)         (2-12)         (2-12)         (2-12)         (2-12)         (2-12)         (2-12)         (2-12)         (2-12)         (2-12)         (2-14)         (2-8)         (2-8)         (2-8)         (2-8)         (2-8)         (2-8)         (2-8)         (2-8)         (2-8)         (2-7)         (2-7)         (2-7)         (2-7)         (										(43-102)	(43-102)	(0.2-0.2)	(0.2-0.2)	(0.5-1.3)	(0.4-1.1)
SR4A         6.4 6.4 6.4 6.4 6.4 6.4 (5.9-7.1)         (6.3-6.7)         (1.1-11.3)         (0.5-8.3)         (2-8)         (2-9)         (2-9)         (2-9)         (2-9)         (2-9)         (2-9)         (2-9)         (2-9)         (2-9)         (2-9)         (2-10) </th <th>SR3</th> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td>=</td> <td></td> <td>_</td> <td>_</td> <td>_</td> <td>_</td> <td>_</td> <td>_</td>	SR3						_	=		_	_	_	_	_	_
SR4A         (5.9-7.1)         (6.0-6.8)         (5.9-6.8)         (6.0-6.6)         (1.1-13.9)         (1.1-10.5)         (2-15)         (2-9)         1         1         1         2         3.9         6         5         5         2<	0.10					_ `	. ,	. ,	_ ` /						
SR5A   6.4   6.4   6.4   6.4   6.6   (6.0-6.6)   (1.1-13.9)   (1.1-10.5)   (2-15)   (2-9)	SR4A	6.4	6.4	6.4	6.4	4.7	4.4	5	4	_	_	_	_	_	_
SR5A         (6.0-6.8)         (6.0-6.6)         (6.0-6.6)         (1.7-13.0)         (1.4-10.3)         (2-20)         (2-12)         1         1         1         2         3         4.1         4.2         6         4         2	OINTA	(5.9-7.1)	(6.0-6.8)	(5.9-6.8)	(6.0-6.6)	(1.1-13.9)	(1.1-10.5)	(2-15)	(2-9)						
SR6     6.3     6.4     6.3     6.3     4.1     4.2     6     4     -     -     -       SR7     6.1     6.1     6.3     6.3     3.1     3.3     4     4     -     -     -     -       SR8     6.4     6.4     6.6     6.6     4.1     4.4     4     4     -     -     -     -       SR8     6.4     6.4     6.6     6.6     4.1     4.4     4     4     4     -     -     -     -	SR5A	6.4	6.4	6.4	6.4	5.6	3.9	6	5		_		_		
SR6         (5.9-7.0)         (5.8-6.8)         (6.0-6.9)         (5.9-6.7)         (0.5-12.2)         (1.1-12.2)         (2-14)         (2-8)         1         2         1         1         1         2         1         1         2         1         2         1         2 <td>SKSA</td> <td>(6.0-6.8)</td> <td>(6.0-6.6)</td> <td>(6.0-6.8)</td> <td>(6.0-6.6)</td> <td>(1.7-13.0)</td> <td>(1.4-10.3)</td> <td>(2-20)</td> <td>(2-12)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	SKSA	(6.0-6.8)	(6.0-6.6)	(6.0-6.8)	(6.0-6.6)	(1.7-13.0)	(1.4-10.3)	(2-20)	(2-12)						
SR7     6.1     6.1     6.3     6.3     3.1     3.3     4     4     -     -     -     -       (5.5-6.5)     (5.8-6.5)     (5.4-6.9)     (5.8-6.9)     (0.5-9.3)     (1.4-7.1)     (2-9)     (2-7)     -     -     -       SP8     6.4     6.4     6.6     6.6     4.1     4.4     4     4     -     -     -	epe	6.3	6.4	6.3	6.3	4.1	4.2	6	4						
SR7     6.1     6.1     6.3     6.3     3.1     3.3     4     4       (5.5-6.5)     (5.8-6.5)     (5.4-6.9)     (5.8-6.9)     (0.5-9.3)     (1.4-7.1)     (2-9)     (2-7)       SP8     6.4     6.4     6.6     6.6     4.1     4.4     4     4	SKO	(5.9-7.0)	(5.8-6.8)	(6.0-6.9)	(5.9-6.7)	(0.5-12.2)	(1.1-12.2)	(2-14)	(2-8)	-	_	-	-	-	-
(5.5-6.5) (5.8-6.5) (5.4-6.9) (5.8-6.9) (0.5-9.3) (1.4-7.1) (2-9) (2-7) (5.8-6.9) (5.8	CD7	6.1	6.1	6.3	6.3	3.1	3.3	4	4						
SPR 6.4 6.4 6.6 6.6 4.1 4.4 4 4	5K/	(5.5-6.5)	(5.8-6.5)	(5.4-6.9)	(5.8-6.9)	(0.5-9.3)	(1.4-7.1)	(2-9)	(2-7)	-	_	-	-	-	_
	000						_ `								
(6.0-6.6) (6.0-6.7) (6.3-7.1) (6.2-7.0) (1.2-12.0) (1.0-8.0) (2-9) (2-7)	SR8									-	-	-	-	-	-

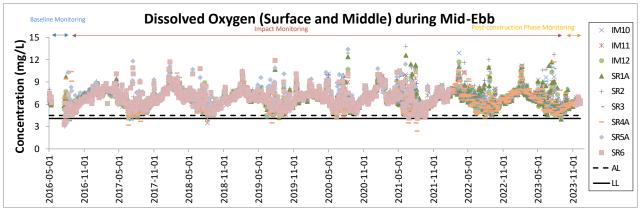
Note: (1) Mean values and the minimum and maximum values (in bracket) are presented in each cell.

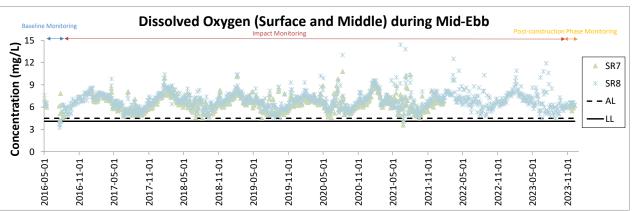
### **Water Quality Monitoring:**

Part III - Water Quality Monitoring Results from Baseline Water Quality Monitoring, General Impact Water Quality Monitoring and Post-construction Phase Water Quality Monitoring





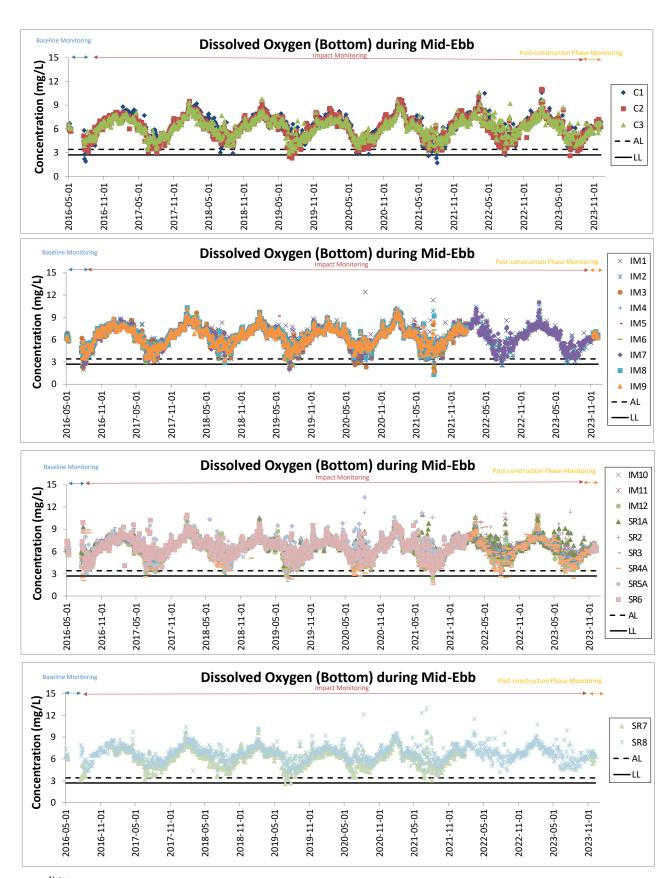




Notes:

1. The Action and Limit Levels can be referred to Table 5.5 and Table 5.6 of the Updated EM&A Manual.

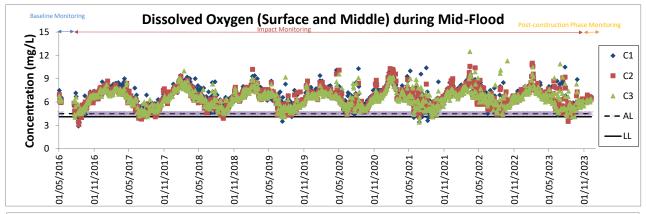
2. QA/ QC requirements as stipulated in the EM&A Manual was carried out during measurement.

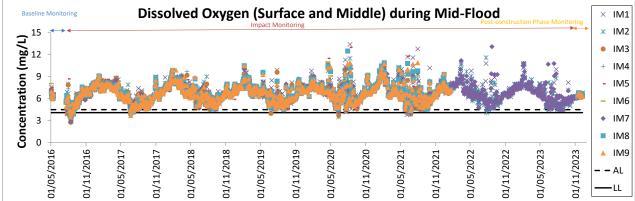


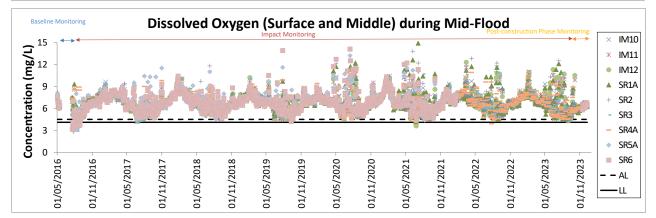
Notes:

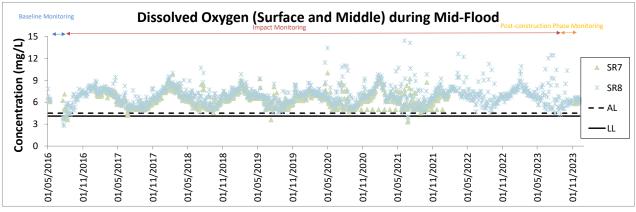
1. The Action and Limit Levels can be referred to Table 5.5 and Table 5.6 of the Updated EM&A Manual.

2. QA/ QC requirements as stipulated in the EM&A Manual was carried out during measurement.





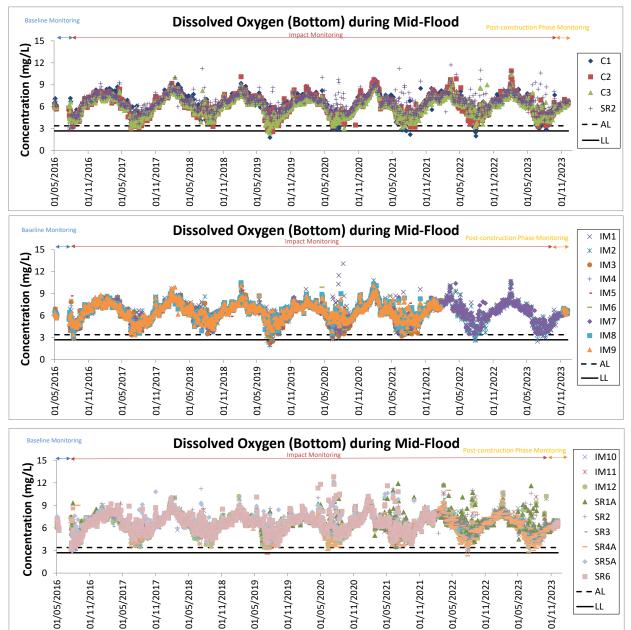


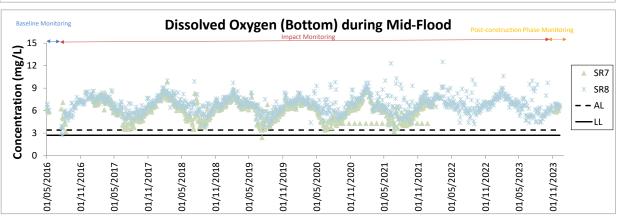


Notes:

1. The Action and Limit Levels can be referred to Table 5.5 and Table 5.6 of the Updated EM&A Manual.

2. QA/ QC requirements as stipulated in the EM&A Manual was carried out during measurement.

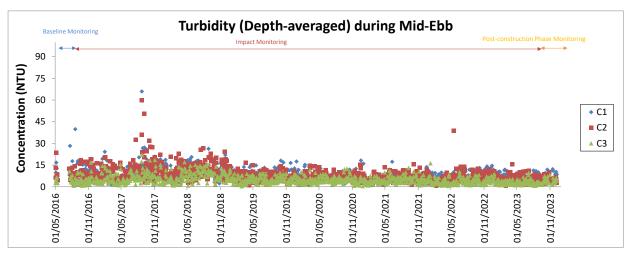


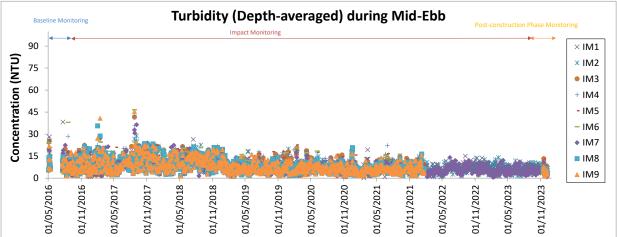


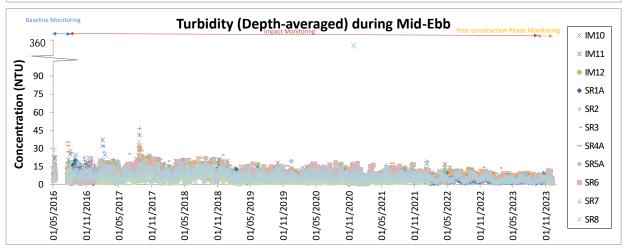
Notes:

1. The Action and Limit Levels can be referred to Table 5.5 and Table 5.6 of the Updated EM&A Manual.

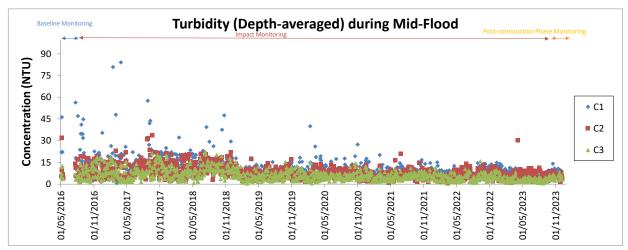
2. QA/ QC requirements as stipulated in the EM&A Manual was carried out during measurement.

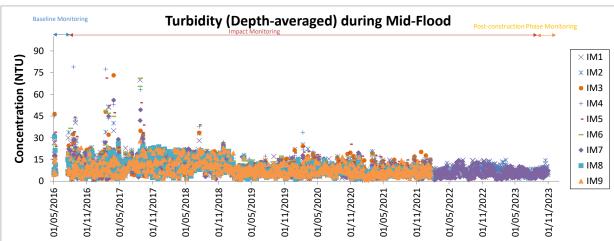


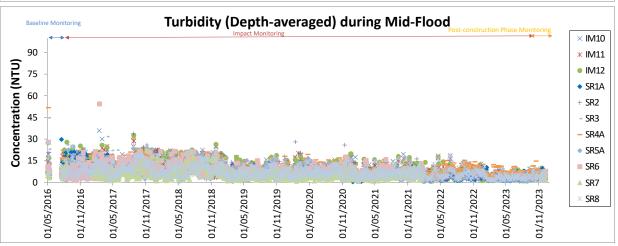




- Notes:
  1. The Action and Limit Levels can be referred to Table 5.5 and Table 5.6 of the Updated EM&A Manual.
- 2. QA/ QC requirements as stipulated in the EM&A Manual was carried out during measurement.

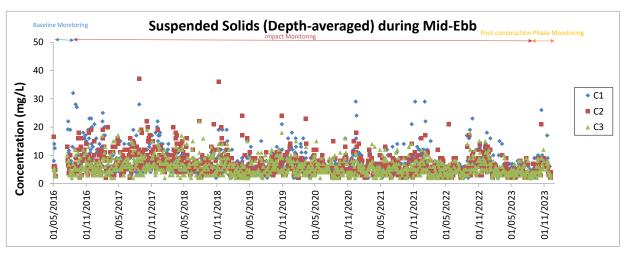


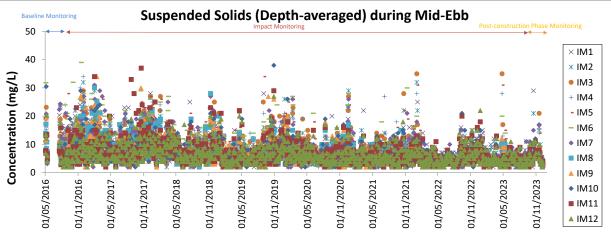


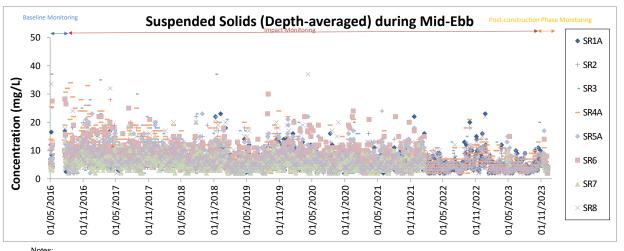


Notes:
1. The Action and Limit Levels can be referred to Table 5.5 and Table 5.6 of the Updated EM&A Manual

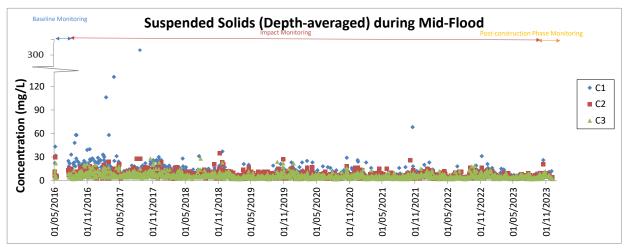
<sup>2.</sup> QA/ QC requirements as stipulated in the EM&A Manual was carried out during measurement.

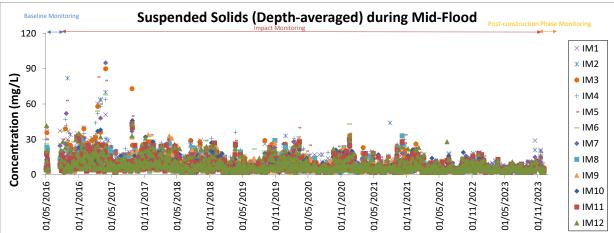


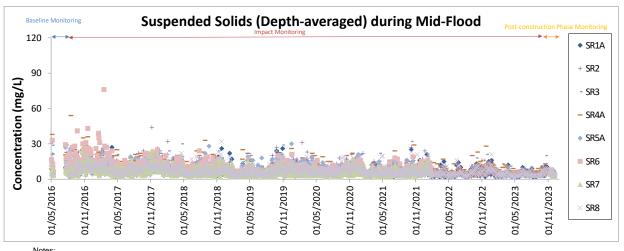




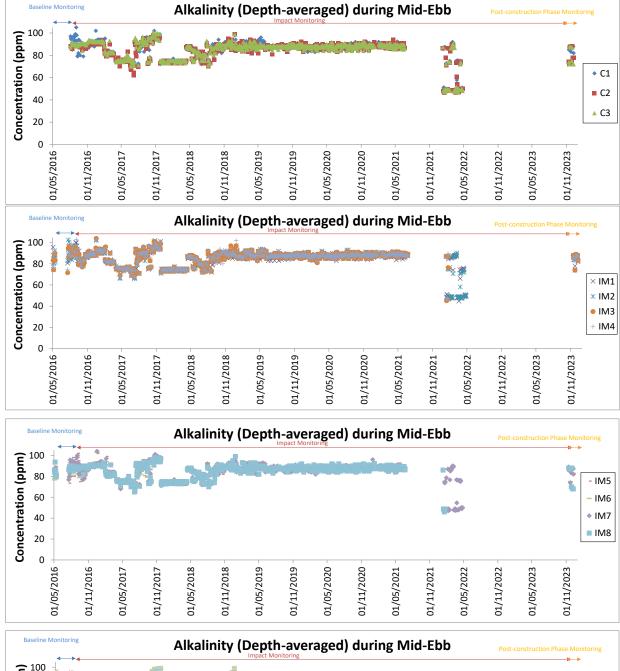
Notes:
1. The Action and Limit Levels can be referred to Table 5.5 and Table 5.6 of the Updated EM&A Manual.
2. QA/ QC requirements as stipulated in the EM&A Manual was carried out during measurement.

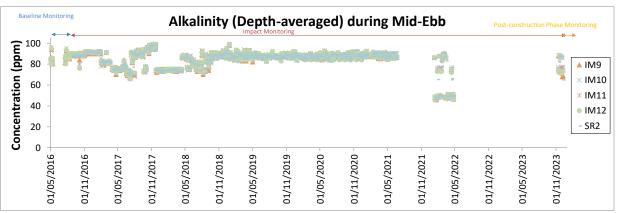




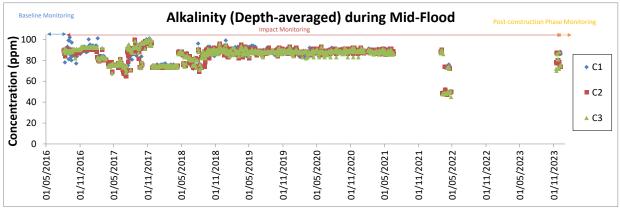


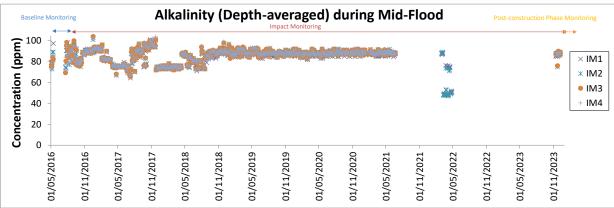
Notes:
1. The Action and Limit Levels can be referred to Table 5.5 and Table 5.6 of the Updated EM&A Manual.
2. QA/ QC requirements as stipulated in the EM&A Manual was carried out during measurement.

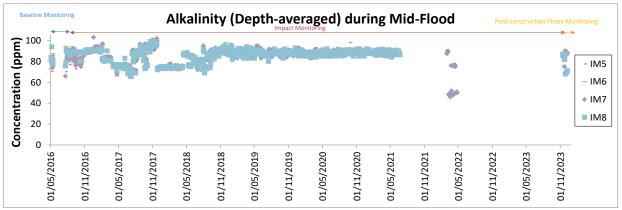


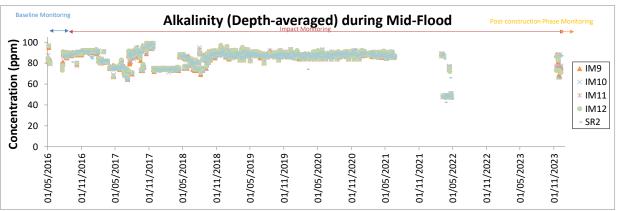


Notes:
1. The Action and Limit Levels can be referred to Table 5.5 and Table 5.6 of the Updated EM&A Manual.
2. QA/ QC requirements as stipulated in the Updated EM&A Manual was carried out during measurement.

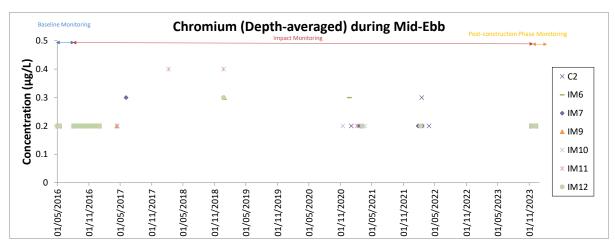


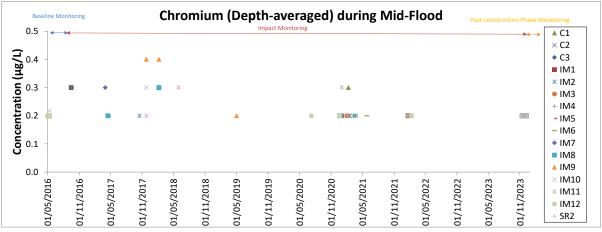






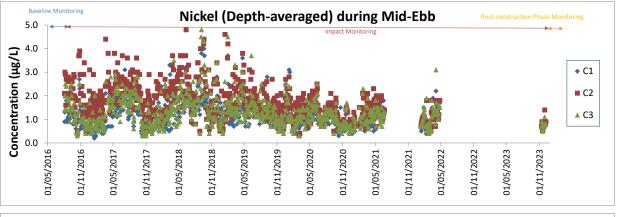
Notes:
1. The Action and Limit Levels can be referred to Table 5.5 and Table 5.6 of the Updated EM&A Manual.
2. QA/ QC requirements as stipulated in the Updated EM&A Manual was carried out during measurement.

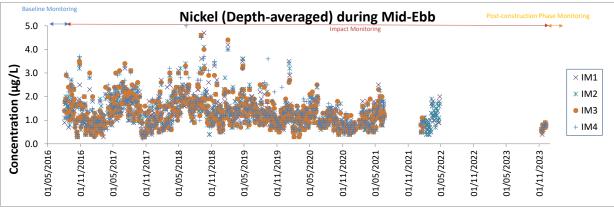


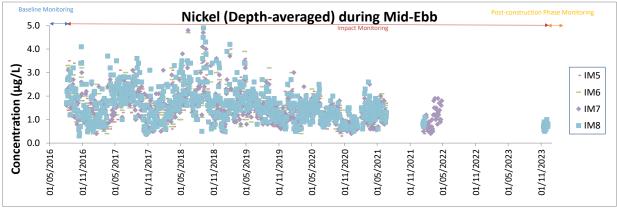


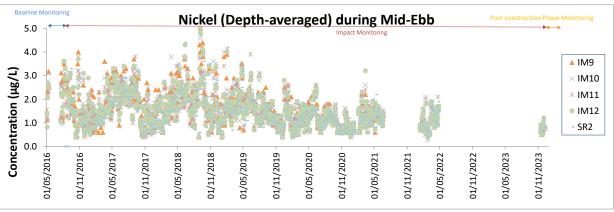
- For Chromium, the reporting limit is 0.2 µg/L and only monitoring results exceed 0.2 µg/L will be shown. According to the monitoring results over the monitoring period during Mid-Ebb, the monitoring results of chromium at all other monitoring stations were below the reporting limit of 0.2 µg/L.

  2. The Action and Limit Levels can be referred to Table 5.5 and Table 5.6 of the Updated EM&A Manual.
- QA/ QC requirements as stipulated in the Updated EM&A Manual was carried out during measurement.



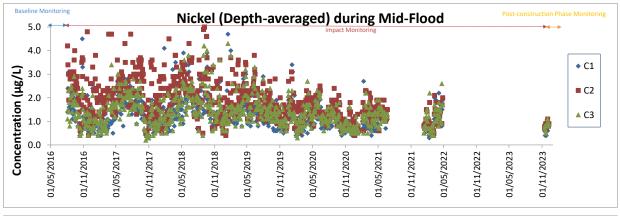


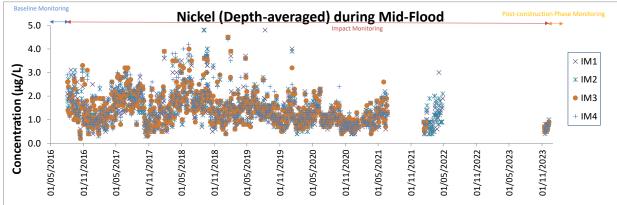


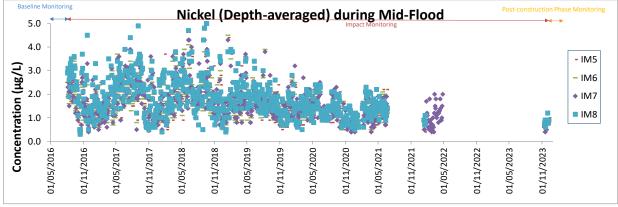


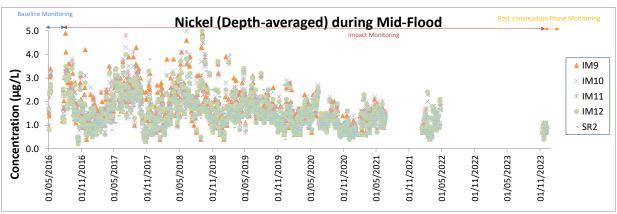
- Notes:

  1. The Action and Limit Levels can be referred to Table 5.5 and Table 5.6 of the Updated EM&A Manual.
- 2. QA/ QC requirements as stipulated in the Updated EM&A Manual was carried out during measurement.









Notes:

1. The Action and Limit Levels can be referred to Table 5.5 and Table 5.6 of the Updated EM&A Manual.

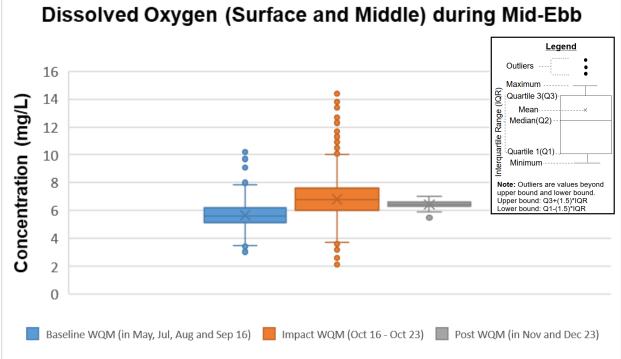
2. QA/ QC requirements as stipulated in the Updated EM&A Manual was carried out during measurement.

Water Quality Monitoring: Part IV-

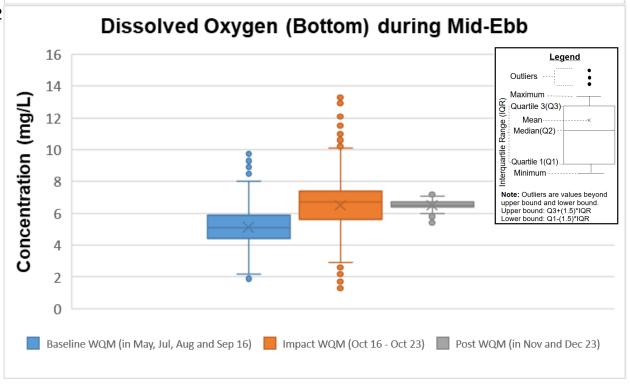
Illustration of Monitoring Results Distribution of Baseline Water Quality Monitoring,

General Impact Water Quality Monitoring and Post-construction Phase Water Quality Monitoring

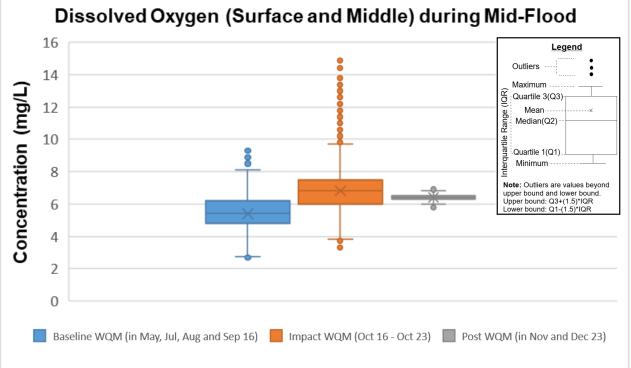




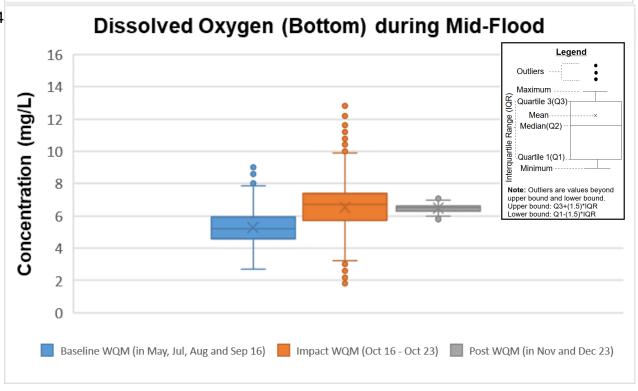
#### Graph D.2



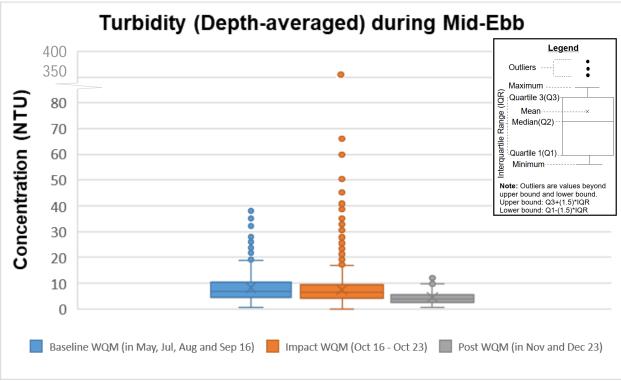


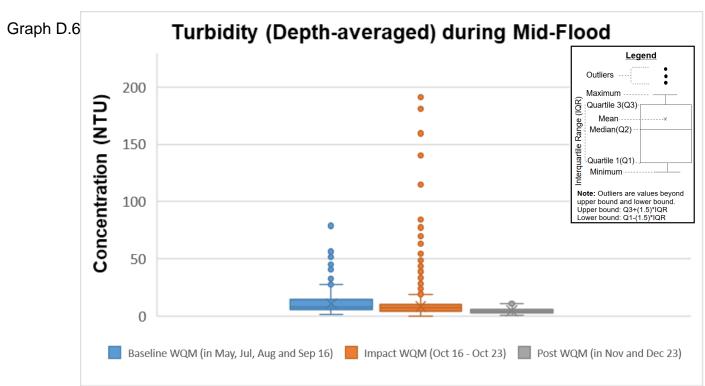


#### Graph D.4



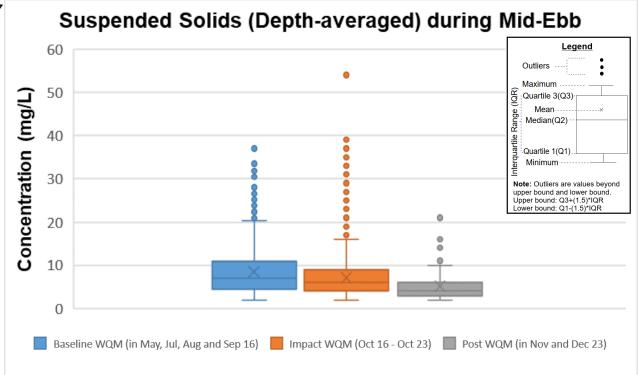




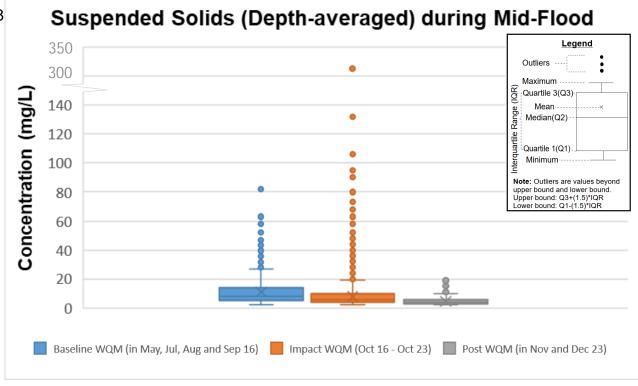


App D - Water - Part 4 - 3

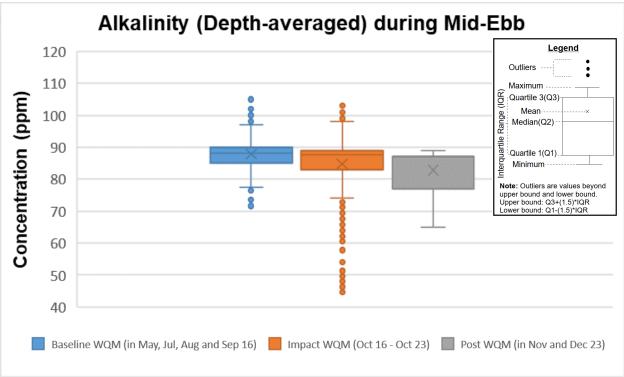




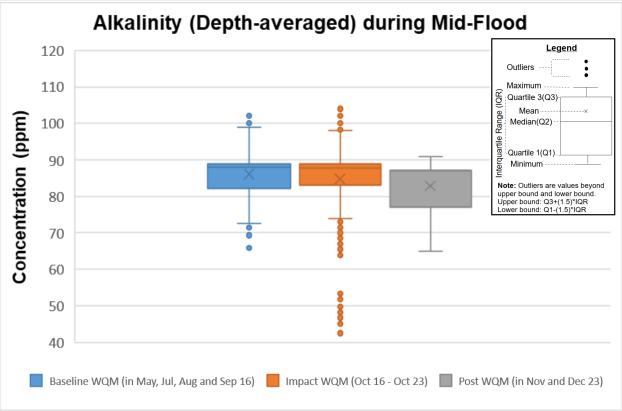




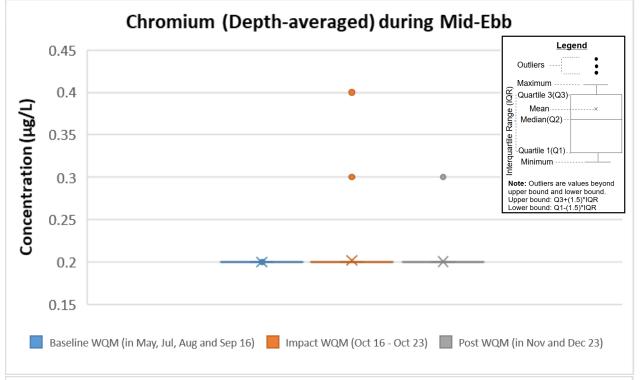




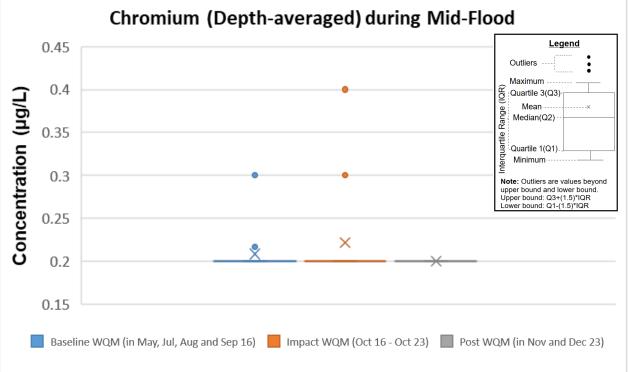






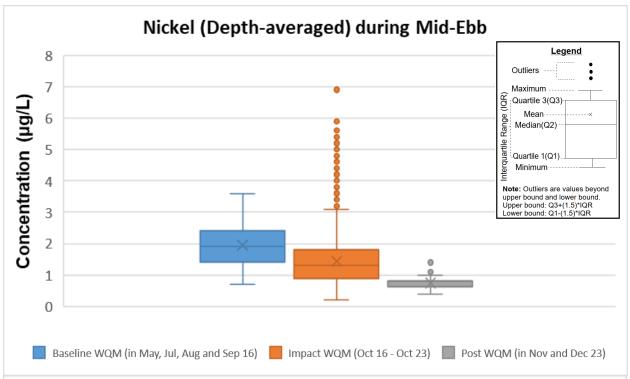




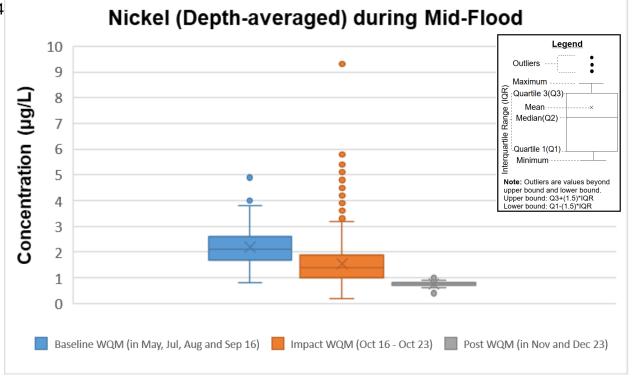


App D - Water - Part 4 - 6





### Graph D.14



## **Appendix E. Sampling Results for Marine Sediment Samples**

Location of sample (grid number)	Depth of sample*	Pass/Fail RBRG limit	Exceeded RBRG parameter(s)	Remarks					
APM/BHS Tunnel and Ancillary Building with piled foundation									
Grid 34	0 – 3 m	Pass	Nil						
	3 – 6 m	Pass	Nil						
	6m to bottom	Pass	Nil						

#### Note:

<sup>\*</sup> One marine sediment sample was taken if the depth of marine sediment to be excavated was less than or equal to 3 m. If the depth of marine sediment to be excavated was less than or equal to 6 m, a sample was taken from the depth of 0-3 m, and 3-6 m. If the marine sediment to be excavated was more than 6 m, a sample was taken from three different depths including one in the depth of 0-3 m, 3-6 m, and 6 m to the bottom of the marine sediment to be excavated.

# **Appendix F. Chinese White Dolphin Monitoring Results**

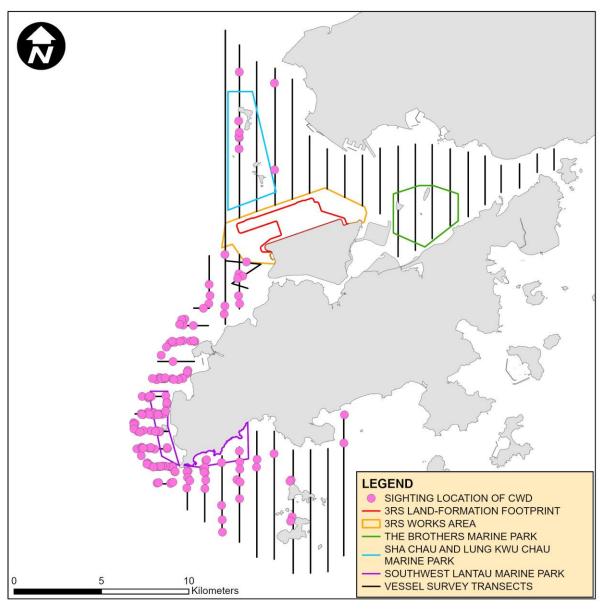
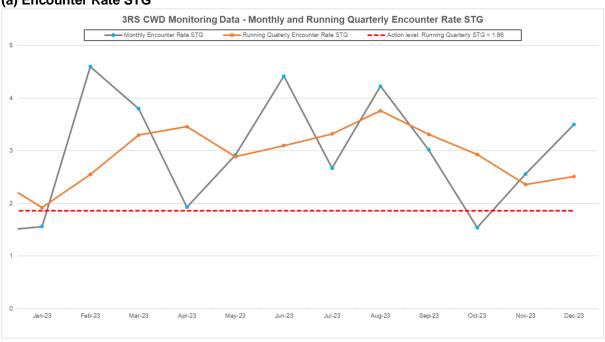
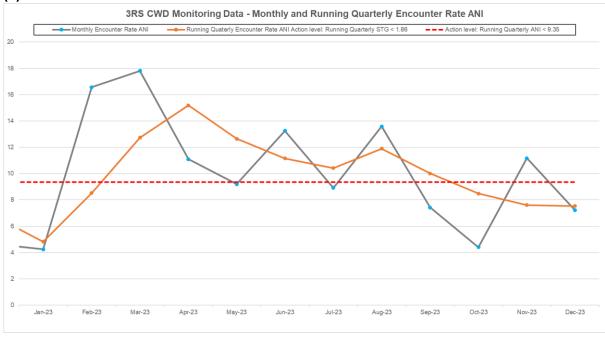


Figure 1: Sightings Distribution of Chinese White Dolphins in 2023

Figure 2: Graphical Presentation of Monthly and Running Quarterly Encounter Rates in the Reporting Period (January to December 2023)
(a) Encounter Rate STG



#### (b) Encounter Rate ANI

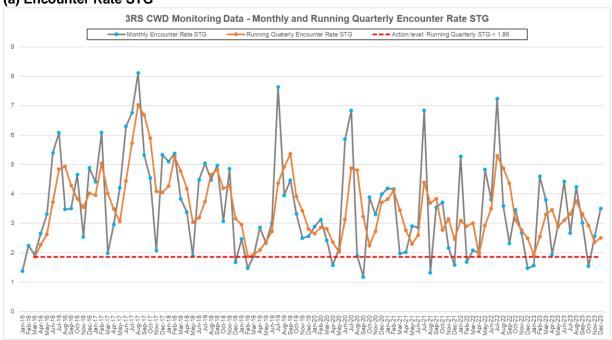


Notes: Limit Level = Two consecutive running quarterly STG <1.86 & ANI < 9.35.

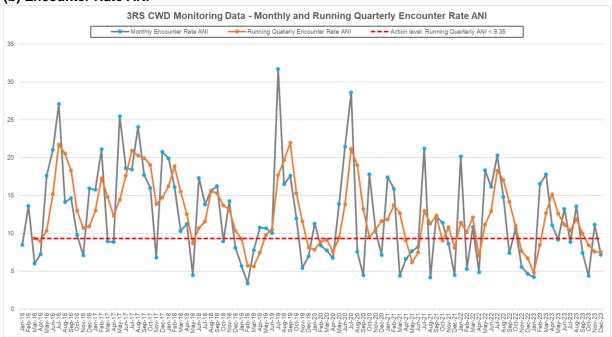
Action Level and/or Limit Level will be triggered if both STG and ANI fall below the criteria.

Figure 3: Graphical Presentation of Monthly and Running Quarterly Encounter Rates from January 2016 to December 2023





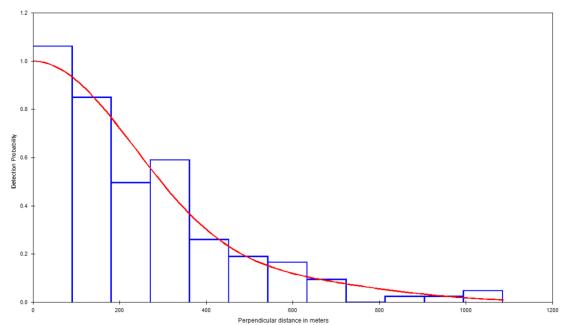
#### (b) Encounter Rate ANI



Notes: Limit Level = Two consecutive running quarterly STG <1.86 & ANI < 9.35.

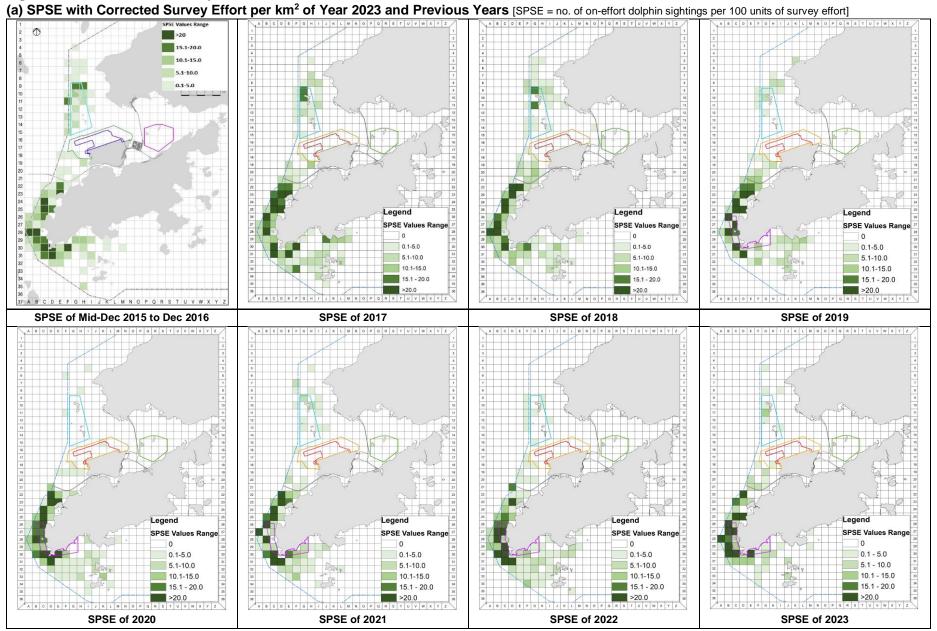
Action Level and/or Limit Level will be triggered if both STG and ANI fall below the criteria.

Figure 4: Fitted Detection Function of the 2023 CWD Sightings, Pooled from All Western Hong Kong Survey Areas (truncation distance = 1,200 m)



Note: Detection function used a Half-Normal model with a cosine adjustment.

Figure 5: Quantitative Grid Analysis for CWDs



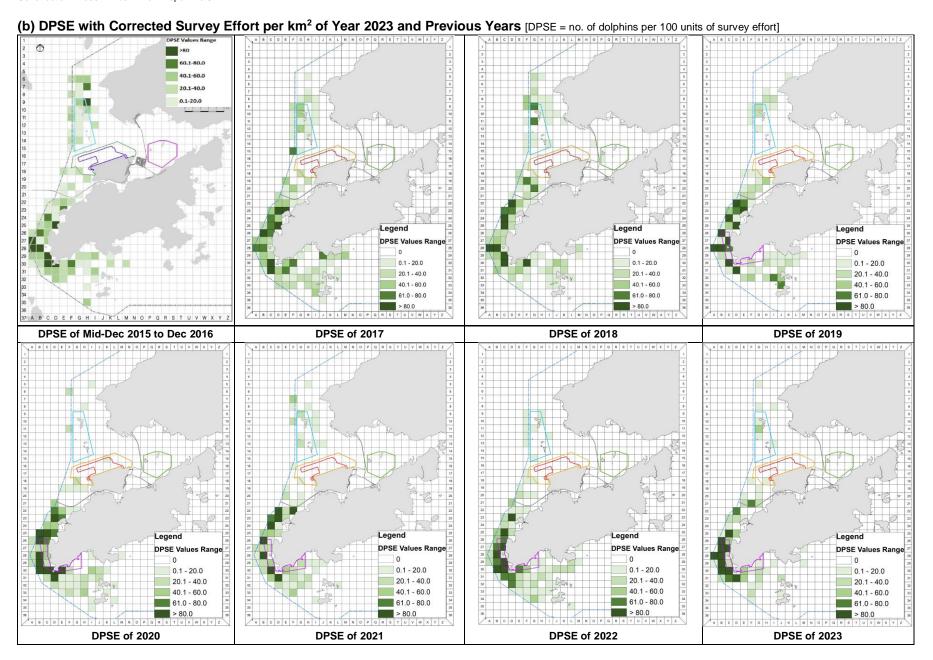


Figure 6: Cumulative SPSE and DPSE of CWDs with Corrected Survey Effort per km² from Dec 2015 to Dec 2023

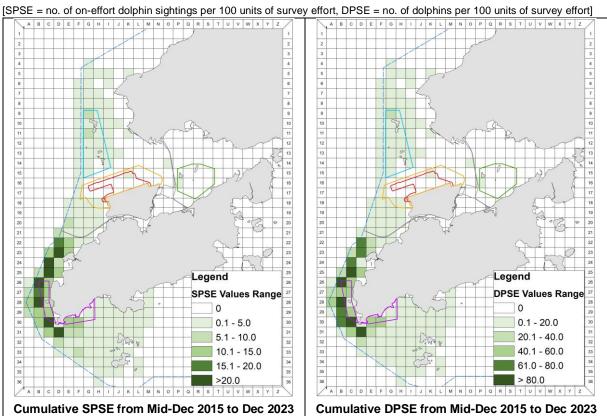
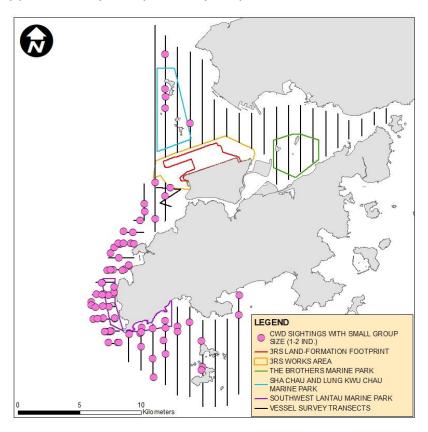
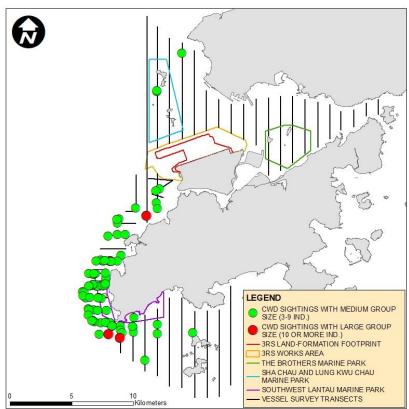


Figure 7: Sightings Distribution of Chinese White Dolphins with Different Group Sizes in 2023 (a) Small Group Size (1 to 2 dolphins)



#### (b) Medium Group Size (3 to 9 dolphins) and Large Group Size (10 or more dolphins)



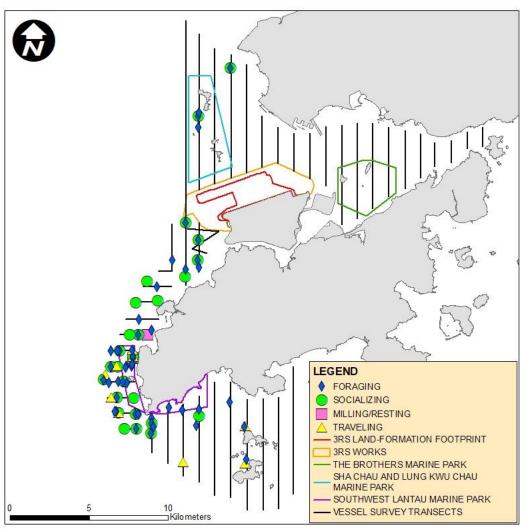


Figure 8: Sighting Locations of CWD Groups Engaged in Different Activities in 2023

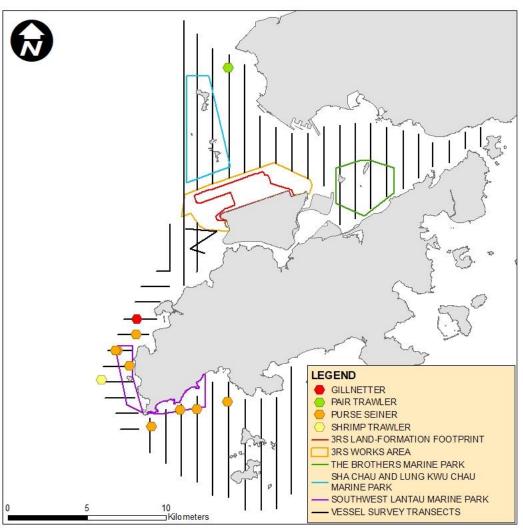


Figure 9: Sighting Locations of CWD Groups in Association with Fishing Boat in 2023

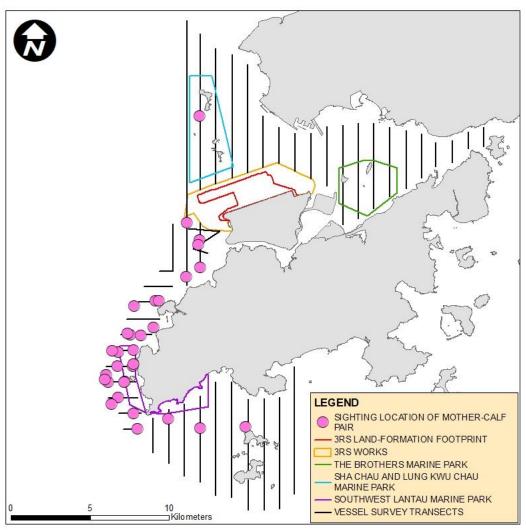
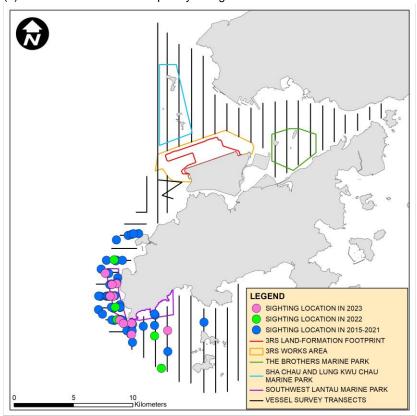


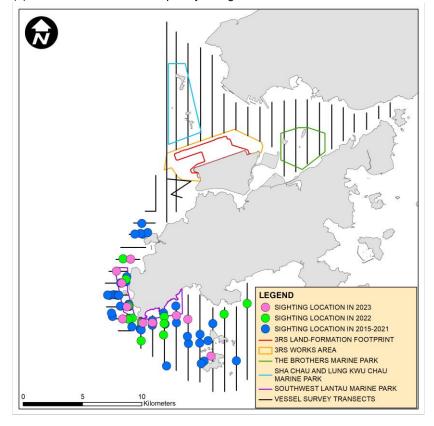
Figure 10: Sighting Locations of Mother-Calf Pairs in 2023

Figure 11: Photo Identification – Re-sighting Locations

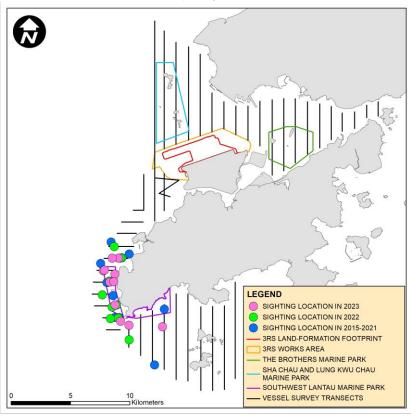
(a) SLMM003 - the most frequently re-sighted animal in 2023 and the 2<sup>nd</sup> most frequently sighted animal overall



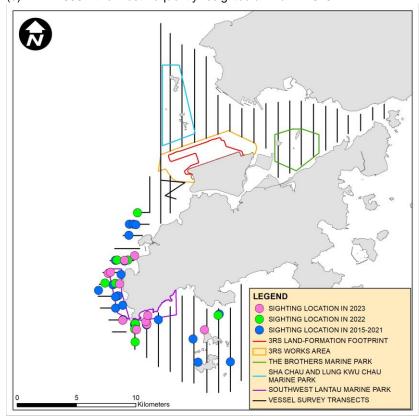
(b) SLMM037 - the most frequently re-sighted animal in 2023 and the 2<sup>nd</sup> most frequently sighted animal overall



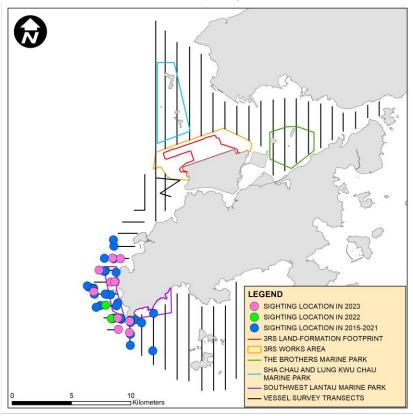
#### (c) SLMM044 – the most frequently resighted animal in 2023



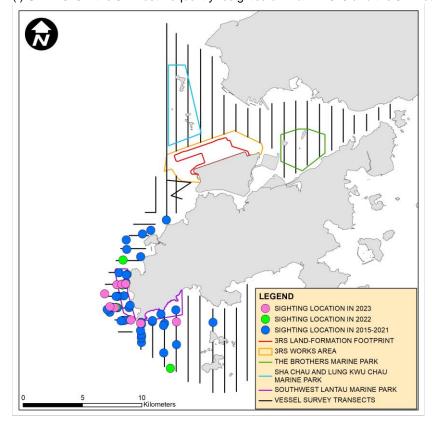
#### (d) WLMM056 – the most frequently resighted animal in 2023



## (e) WLMM007 – the $2^{\text{nd}}$ most frequently resighted animal in 2023



## (f) SLMM010 – the $3^{rd}$ most frequently resighted animal in 2023 and the $3^{rd}$ most frequently sighted animal overall



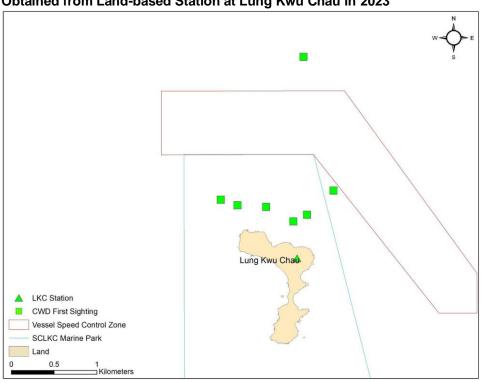


Figure 12: Plots of First Sightings of All CWD Groups (prior to filtering short-track data) Obtained from Land-based Station at Lung Kwu Chau in 2023

Figure 13: Proportion of CWD Total Track Time, per Total Effort Time, from Lung Kwu Chau (prior to filtering short-track data) Based on Time of Day in 2023

[The x-axis represents the hour block during which theodolite tracking surveys were conducted. The "n" in parentheses represents the number of days that survey effort was carried out during the associated hour block.]

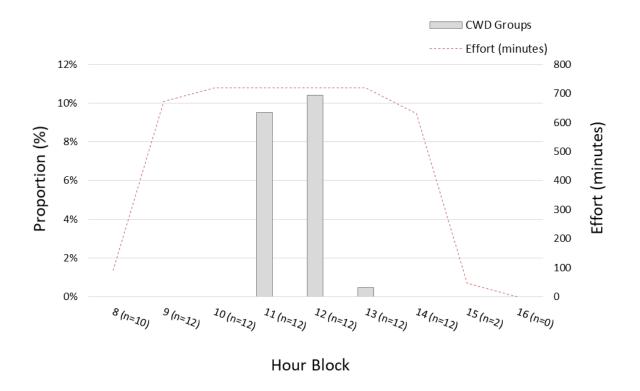


Figure 14: Total Number of CWD Groups Sighted and Tracked from Lung Kwu Chau Based on Month of the Year in 2023

[The grey bars represent the percentage of number of groups tracked per month, while the numbers above the bars indicate the total number of CWD groups tracked per study period (prior to filtering short-track data). The orange line represents the percentage of total time spent tracking dolphins per month. The 'wettest period' is based on total monthly rainfall that varies from year to year.]

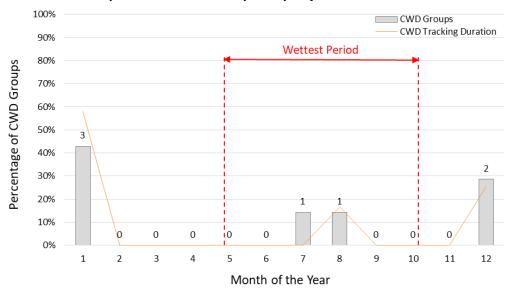
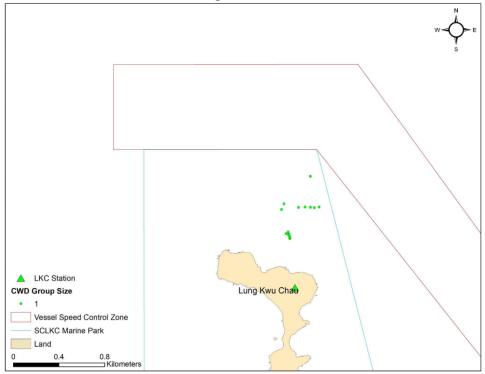


Figure 15: Plots of CWD Positions (prior to filtering short-track data) relative to Group Size tracked within Sha Chau and Lung Kwu Chau Marine Park in 2023



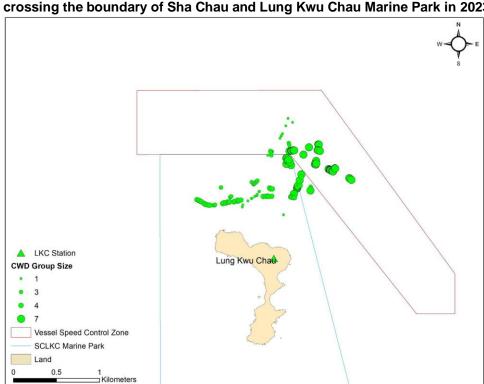


Figure 16: Plots of CWD Positions (prior to filtering short-track data) relative to Group Size crossing the boundary of Sha Chau and Lung Kwu Chau Marine Park in 2023



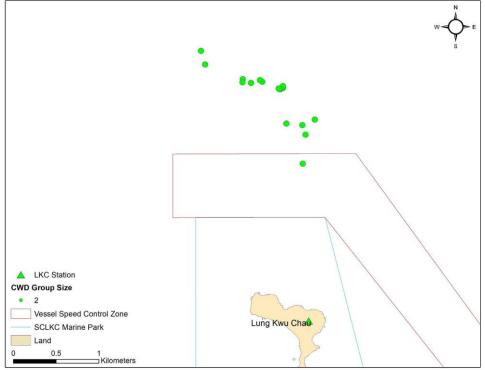


Figure 18: Percentages of CWD Behavioural States (prior to filtering short-track data), excluding Unknown Category, recorded from Lung Kwu Chau in 2023

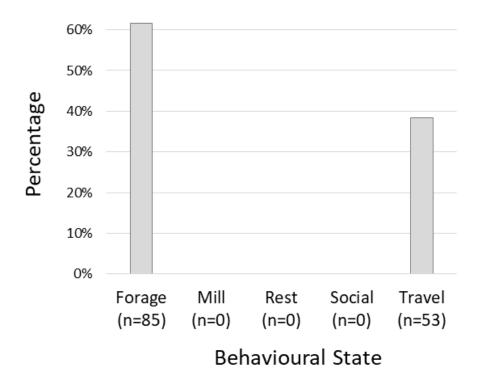


Figure 19: Stacked Bar Graph showing percentages of CWD Behavioural States (prior to filtering short-track data), excluding Unknown Category, relative to the Sha Chau and Lung Kwu Chau Marine Park Location, recorded from Lung Kwu Chau in 2023

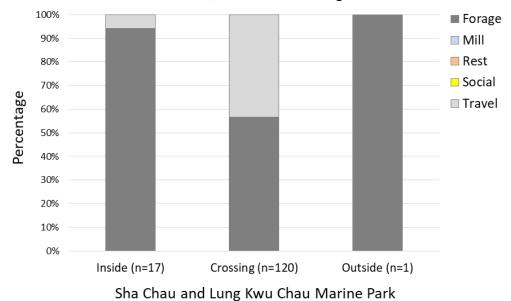


Figure 20: Plots of All Vessel Positions and All CWD Positions obtained from Lung Kwu Chau in 2023

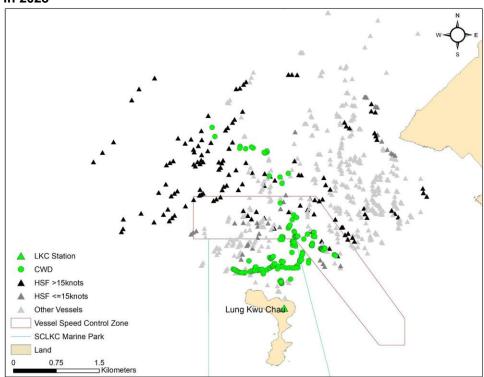
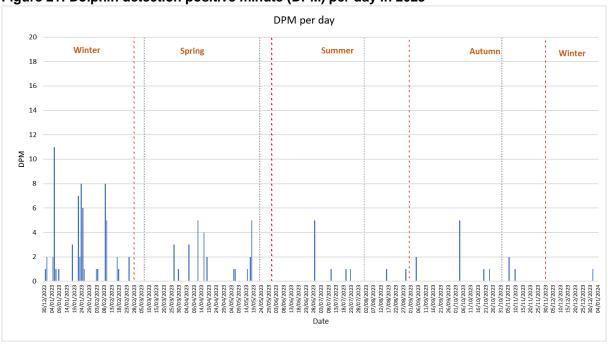


Figure 21: Dolphin detection positive minute (DPM) per day in 2023



[Grey dotted lines indicate deployment/retrieval of PAM device; red dotted lines indicate the solar seasons]

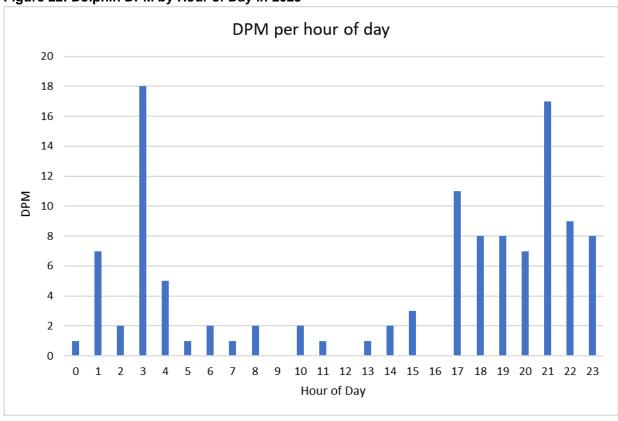
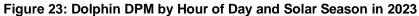
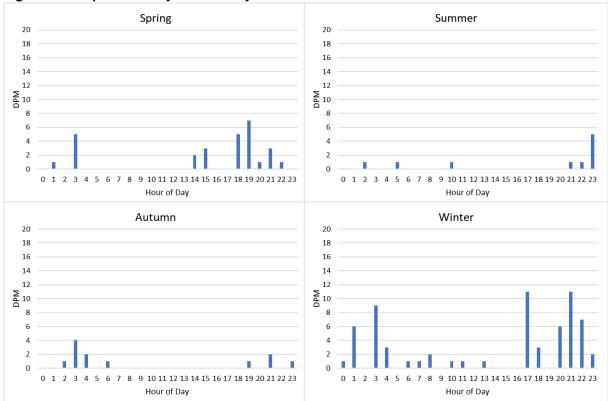


Figure 22: Dolphin DPM by Hour of Day in 2023





[Winter = Dec-Jan-Feb, Spring = Mar-Apr-May, Summer = Jun-Jul-Aug, Autumn = Sep-Oct-Nov]

Table 1: CWD Vessel Survey Effort by Survey Areas in 2023

Survey Area	Survey Effort (km)	Survey Effort under Favourable Weather Condition (km)
NEL	1130.0	1111.1
NWL	1799.6	1736.0
AW	114.4	114.4
WL	673.6	623.9
SWL	1667.3	1649.4
Combined	5384.9	5234.8

Table 2: CWD Sightings by Survey Areas in 2023

Survey Area	No. of Sighting (On-effort)	No. of Dolphin (On-effort)	No. of On-effort Sighting under Favourable Weather Condition	No. of On-effort Dolphin under Favourable Weather Condition
NEL	0	0	0	0
NWL	14	53	14	53
AW	3	7	3	7
WL	111	385	111	385
SWL	32	97	32	97
Combined	160	542	160	542

**Table 3: CWD Encounter Rates by Survey Areas** 

Survey Area	Encounter	Rate (STG)	Encounter Rate (ANI)	
	2022	2023	2022	2023
NEL	0	0	0	0
NWL	0.88	0.81	2.18	3.05
AW	0.94	2.62	0.94	6.12
WL	15.55	17.79	58.09	61.71
SWL	3.68	1.94	11.89	5.88
Combined	3.36	3.06	11.57	10.35

Table 4: Summary of Monthly and Running Quarterly Encounter Rates STG and ANI in 2023

Encounter	Wi	nter		Spring			Summe	r	1	Autumr	1	Winter
Rate	Jan 23	Feb 23	Mar 23	Apr 23	May 23	Jun 23	Jul 23	Aug 23	Sep 23	Oct 23	Nov 23	Dec 23
Monthly STG	1.56	4.60	3.80	1.93	2.92	4.42	2.67	4.23	3.02	1.54	2.56	3.50
Monthly ANI	4.24	16.56	17.81	11.10	9.20	13.25	8.91	13.58	7.43	4.41	11.17	7.22
Running Quarterly STG	1.92	2.55	3.30	3.46	2.89	3.10	3.32	3.76	3.31	2.93	2.36	2.51
Running Quarterly ANI	4.83	8.52	12.73	15.19	12.65	11.16	10.42	11.90	10.01	8.48	7.61	7.54

Table 5: CWD Line Transects Parameters and Estimates of Density and Abundance for Western Hong Kong, 2023

Time Period	Stratum	No. of Sight- ings*	Average Group Size	Trackline Detection Prob g(0)	Individual Density (no./100km²)	Abundance	95% CI (Abund.)	%CV
Jan-Dec 2023	AW	3	2.3	1.0	21.23	1	0-49	103.7
Jan-Dec 2023	DB	1	3.0	1.0	2.10	1	0-4	102.6
Jan-Dec 2023	NEL	0	0	1.0	0.00	0	N/A	N/A
Jan-Dec 2023	NWL	14	4.5	1.0	5.49	4	2-8	37.8
Jan-Dec 2023	SWL	32	2.4	1.0	7.23	5	2-10	34.7
Jan-Dec 2023	WL	111	3.5	1.0	93.17	30	22-42	16.2
Jan-Dec 2023	Pooled^	158	3.1	1.0	15.92	40	30-53	14.35
Jan-Dec 2023	Winter#	42	2.6	1.0	18.62	40	23-68	27.0
Jan-Dec 2023	Spring#	38	4.3	1.0	30.30	65	37-116	29.1
Jan-Dec 2023	Summer#	50	3.2	1.0	21.60	47	26-82	28.7
Jan-Dec 2023	Autumn#	31	3.5	1.0	14.54	31	18-55	29.0

<sup>\*</sup> After truncation

<sup>^</sup> Pooled abundance not including Airport West (AW). Note that the pooled estimates do not necessarily add up to the sum of the individual stratum estimates, as these are computed separately.

 $<sup>\</sup>ensuremath{\text{\#}}$  The seasonal estimates do not include AW.

Table 6: Average Group Sizes of CWDs by Survey Areas in 2023

Survey Area	Average Group Size of CWDs
NEL	0.00
NWL	3.79
AW	2.33
WL	3.47
SWL	3.03
Overall	3.39 ± 2.82

Table 7: Average Group Sizes of CWDs by Seasons in 2023

Solar Season	Average Group Size of CWDs
Spring	4.38
Summer	3.16
Autumn	3.23
Winter	2.90

Table 8: Percentage of CWD Groups recorded as Exhibiting Various Behaviours/Activities, and recorded as having Association with Fishing Boat

Survey		Activity			Fishing Boat	
Area	Year	Feeding	Travelling	Socialising	Resting/Milling	Association
A)A/	2022	-	-	-	-	-
AW	2023	-	-	-	-	-
NEL	2022	-	-	-	-	-
NEL	2023	-	-	-	-	-
N N A /I	2022	20%	7%	13%	-	7%
NWL	2023	64%	-	43%	-	7%
14/1	2022	27%	19%	21%	1%	6%
WL	2023	26%	5%	16%	2%	5%
CVA/I	2022	32%	13%	20%	2%	13%
SWL	2023	34%	9%	9%	-	13%
Overall	2022	28%	16%	20%	1%	8%
Overall	2023	31%	6%	17%	1%	7%

Table 9: Summary of Photo Identification in 2023

Individual ID	Date of sighting (dd-mmm-yy)	Sighting No.	Area
NLMM001	20-Feb-23	1	NWL
	9-Jun-23	2	WL
	21-Sep-23	2	WL
	15-Nov-23	2	WL
NLMM009	16-Feb-23	2	NWL
		3	NWL
NLMM013	21-Feb-23	1	WL
	13-Jun-23	1	NWL
NLMM015	16-Feb-23	3	NWL
NLMM016	16-Feb-23	3	NWL
	1-Mar-23	5	WL
	7-Mar-23	2	NWL
	13-Sep-23	1	SWL
NLMM020	16-Feb-23	1	NWL
	13-Apr-23	1	WL
		2	WL
	9-Jun-23	5	WL
NLMM021	6-Jan-23	2	NWL
	1-Mar-23	2	WL
	13-Apr-23	1	WL
NLMM023	20-Oct-23	1	WL
	6-Nov-23	8	SWL
NLMM027	16-Feb-23	4	NWL
	22-Feb-23	1	AW
	3-Mar-23	1	NWL
	13-Apr-23	1	WL
	2-Aug-23	10	SWL
NLMM028	6-Jan-23	2	NWL
	21-Sep-23	3	WL
NLMM040	9-Jan-23	1	NWL
		2	NWL
	16-Feb-23	1	NWL
	1-Mar-23	4	WL
	3-Mar-23	1	NWL
	2-Jun-23	3	WL
NLMM041	9-Jan-23	1	NWL
		2	NWL
	16-Feb-23	1	NWL
	1-Mar-23	4	WL
	3-Mar-23	1	NWL
	13-Oct-23	1	WL
NLMM052	16-Feb-23	2	NWL
		3	NWL
NLMM055	21-Feb-23	1	WL
	7-Jul-23	3	WL
NLMM058	20-Sep-23	2	WL
	6-Nov-23	8	SWL
NLMM060	16-Feb-23	1	NWL

Individual ID	Date of sighting (dd-mmm-yy)	Sighting No.	Area
NLMM063	2-Jun-23	8	WL
	21-Sep-23	3	WL
NLMM065	16-Feb-23	3	NWL
NLMM070	8-Aug-23	3	WL
NLMM078	22-Feb-23	9	WL
NLMM081	1-Mar-23	2	WL
	2-Mar-23	1	WL
NLMM085	6-Jan-23	2	NWL
NLMM086	6-Jan-23	1	NWL
NLMM087	6-Jan-23	1	NWL
NLMM088	20-Feb-23	1	NWL
NLMM089	7-Mar-23	1	NWL
SLMM002	22-Feb-23	7	WL
	1-Mar-23	6	WL
	2-Aug-23	10	SWL
	3-Aug-23	4	SWL
	21-Sep-23	5	WL
	27-Dec-23	7	WL
SLMM003	22-Feb-23	7	WL
	2-Mar-23	3	WL
	13-Apr-23	5	WL
	18-Apr-23	2	WL
	23-May-23	4	WL
	1-Jun-23	2	SWL
	2-Aug-23	4	SWL
	6-Nov-23	8	SWL
	13-Nov-23	1	WL
		2	WL
	27-Dec-23	5	WL
SLMM007	22-Feb-23	6	WL
	1-Mar-23	6	WL
	13-Apr-23	5	WL
	18-Apr-23	1	WL
	2-Jun-23	8	WL
	7-Jul-23	3	WL
	13-Oct-23	4	WL
SLMM010	22-Feb-23	9	WL
	1-Mar-23	6	WL
	2-Mar-23	2	WL
	18-Apr-23	3	WL
	1-Jun-23	2	SWL
	9-Jun-23	5	WL
	11-Jul-23	3	WL
	3-Aug-23	3	SWL
	13-Nov-23	1	WL
SLMM014	13-Jan-23	3	SWL
	22-Feb-23	10	WL
	1-Mar-23	7	WL
	2-Mar-23	3	WL
	9-Mar-23	9	SWL

Date of sighting (dd-mmm-yy)  18-Apr-23	Sighting No.	1 / / /
	_	WL
13-Jul-23	2	SWL
13-Oct-23	4	WL
2-Aug-23	9	SWL
	10	SWL
8-Aug-23	3	WL
15-Nov-23	5	WL
2-Mar-23	2	WL
	3	WL
4-May-23	4	WL
7-Jul-23	3	WL
11-Jul-23	1	WL
		WL
2-Mar-23		WL
		WL
, 25		WL
23-May-23		WL
25 may 25		WL
		WL
8-Aug-23		WL
		WL
		SWL
_		NWL
		SWL
		WL
		WL
		WL
		SWL
		WL
		WL
27 500 20		WL
18-May-23		SWL
		SWL
0 1404 23		SWL
11-Dec-23		SWL
11 500 23		SWL
13-Jan-23		SWL
		WL
22 1 00 20		WL
1-Mar-23		WL
		WL
		SWL
		WL
		WL
		SWL
	8-Aug-23 15-Nov-23 2-Mar-23 4-May-23 7-Jul-23	8-Aug-23 3 3 15-Nov-23 5 2 - Mar-23 2 2 3 3 4 4 - May-23 4 4 7 - Jul-23 3 4 4 7 - Jul-23 1 1 13-Oct-23 4 2 7 - Dec-23 9 2 1-Feb-23 4 2 - Mar-23 2 2 2 3 - May-23 1 1 - Jul-23 1 1 2 - May-23 2 2 - May-23 2 2 - May-23 2 2 - May-23 1 1 - Mar-23 3 3 - Aug-23 3 5 - Aug-23 3 3 - Aug-23 3 5 - Aug-2

Individual ID	Date of sighting (dd-mmm-yy)	Sighting No.	Area
	13-Apr-23	1	WL
		2	WL
	18-May-23	1	SWL
	2-Jun-23	9	SWL
	11-Jul-23	6	WL
	2-Aug-23	8	SWL
	27-Oct-23	2	SWL
	11-Dec-23	2	SWL
SLMM044	21-Feb-23	4	WL
	2-Mar-23	1	WL
		2	WL
	13-Apr-23	1	WL
		2	WL
	11-Jul-23	1	WL
	12-Jul-23	4	SWL
	2-Aug-23	10	SWL
	21-Sep-23	7	WL
	13-Nov-23	1	WL
	27-Dec-23	9	WL
SLMM049	1-Mar-23	6	WL
	2-Mar-23	2	WL
		3	WL
	13-Apr-23	2	WL
	4-May-23	4	WL
	3-Aug-23	3	SWL
	13-Sep-23	1	SWL
	21-Sep-23	7	WL
SLMM050	4-May-23	2	WL
CLIMINOCO	27-Dec-23	7	WL
SLMM052	13-Apr-23	5	WL
CLIMINOCE	2-Jun-23	3	WL
	2 0411 20	5	WL
	7-Jul-23	3	WL
	11-Jul-23	3	WL
	2-Aug-23	4	SWL
	8-Aug-23	4	WL
	13-Oct-23	4	WL
SLMM055	6-Nov-23	7	SWL
SLMM058	21-Feb-23	2	WL
CLIVIIVIOOO	22-Feb-23	3	WL
	1-Mar-23	5	WL
	2-Mar-23	1	WL
	2-10101-25	2	WL
	27-Dec-23	7	WL
SLMM059	21-Sep-23	4	WL
CLIVIIVIOUS	21-36ρ-23	6	WL
SLMM060	9-Mar-23	1	SWL
GLIVIIVIOOO	2-Aug-23	1	SWL
	13-Sep-23	1	SWL
	13-Sep-23	3	WL
	13-001-23	٥	VVL

Individual ID	Date of sighting (dd-mmm-yy)	Sighting No.	Area
SLMM064	13-Oct-23	4	WL
SLMM070	9-Jun-23	5	WL
	15-Nov-23	5	WL
SLMM071	16-Feb-23	1	NWL
SLMM073	22-Feb-23	6	WL
	1-Mar-23	6	WL
	13-Apr-23	5	WL
	2-Jun-23	8	WL
	7-Jul-23	3	WL
SLMM074	22-Feb-23	3	WL
	1-Mar-23	2	WL
WLMM001	1-Mar-23	5	WL
	4-May-23	3	WL
	2-Aug-23	8	SWL
	_ /g	10	SWL
	8-Aug-23	4	WL
	6-Nov-23	8	SWL
	27-Dec-23	7	WL
WLMM003	2-Mar-23	2	WL
VVLIVIIVIOOO	21-Sep-23	2	WL
	21 OCP 20	3	WL
	13-Nov-23	1	WL
WLMM004	7-Jul-23	3	WL
WLMM005	1-Mar-23	5	WL
VVLIVIIVIOOS	7-Jul-23	3	WL
WLMM007	22-Feb-23	6	WL
V V LIVIIVIOO I	2-Mar-23	2	WL
	Z-Wai-25	3	WL
	4-May-23	2	WL
	1-Jun-23	2	SWL
	7-Jul-23	3	WL
	11-Jul-23	3	WL
		4	WL
	13-Oct-23 6-Nov-23	8	SWL
	13-Nov-23		WL
WLMM018	4-May-23	1 2	WL
VVLIVIIVIOTO	8-Aug-23	5	WL
WLMM019	9-Jan-23	3	NWL
WLMM027	1-Mar-23	1	AW
WLMM028	16-Feb-23	1	NWL
	1-Mar-23	5	WL
	7-Jul-23	3	WL
	11-Jul-23	5	WL
\\/\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	3-Aug-23	4	SWL
WLMM029	22-Feb-23	3	WL
\A/I \A\A\A\OOO	3-Mar-23	1	NWL
WLMM030	2-Jun-23	8	WL
	7-Jul-23	3	WL
WLMM043	6-Jan-23	1	NWL
	9-Jan-23	3	NWL

Individual ID	Date of sighting (dd-mmm-yy)	Sighting No.	Area
	1-Mar-23	5	WL
	13-Apr-23	1	WL
	2-Jun-23	8	WL
	20-Sep-23	1	WL
	21-Sep-23	2	WL
WLMM056	22-Feb-23	7	WL
	2-Mar-23	3	WL
	9-Mar-23	9	SWL
	10-Mar-23	2	SWL
	13-Apr-23	1	WL
		2	WL
	4-May-23	1	WL
	3-Aug-23	4	SWL
	13-Sep-23	1	SWL
	6-Nov-23	7	SWL
	13-Nov-23	1	WL
WLMM058	8-Aug-23	5	WL
WLMM062	2-Jun-23	1	WL
WLMM063	16-Feb-23	1	NWL
VVLIVIIVIOOO	13-Apr-23	4	WL
	18-Apr-23	1	WL
WLMM065	22-Feb-23	7	WL
VVLIVIIVIOOS	4-May-23	6	WL
	6-Nov-23	7	SWL
	0-1107-23	8	SWL
WLMM067	9-Jan-23	3	NWL
VV LIVIIVIOO7	1-Mar-23	6	WL
	13-Apr-23	4	WL
	11-Jul-23	3	WL
WLMM068	27-Dec-23	4	WL
WLMM070	22-Feb-23	4	WL
WLMM071	6-Jan-23	1	NWL
VV LIVIIVIO7 I		6	WL
	2-Jun-23		WL
	9-Jun-23 15-Nov-23	1	
\\/\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		1	AW WL
WLMM073	4-May-23 23-May-23	6	
	23-Way-23	1	WL
	0. A	4	WL
\\(\( \) \\( \)	8-Aug-23	6	WL
WLMM077	2-Jun-23	3	WL
WLMM079	22-Feb-23	7	WL
	13-Apr-23	5	WL
	18-Apr-23	1	WL
	4-May-23	2	WL
	2-Jun-23	3	WL
		5	WL
	7-Jul-23	3	WL
	13-Nov-23	2	WL
WLMM080	21-Feb-23	1	WL
	2-Mar-23	2	WL

Individual ID	Date of sighting (dd-mmm-yy)	Sighting No.	Area
	11-Jul-23	1	WL
WLMM086	4-May-23	3	WL
	2-Jun-23	1	WL
WLMM093	3-Aug-23	4	SWL
	8-Aug-23	2	WL
WLMM102	7-Jul-23	3	WL
	3-Aug-23	4	SWL
	8-Aug-23	2	WL
WLMM103	1-Mar-23	4	WL
	2-Jun-23	5	WL
WLMM109	2-Mar-23	1	WL
	13-Oct-23	4	WL
	27-Dec-23	7	WL
WLMM111	4-May-23	5	WL
WLMM112	27-Dec-23	4	WL
WLMM113	27-Dec-23	4	WL
WLMM114	22-Feb-23	6	WL
	2-Mar-23	2	WL
	13-Apr-23	1	WL
	18-May-23	1	SWL
	23-May-23	4	WL
	9-Jun-23	5	WL
WLMM118	2-Mar-23	2	WL
	9-Jun-23	5	WL
	8-Aug-23	6	WL
	6-Nov-23	8	SWL
WLMM122	9-Jan-23	3	NWL
WLMM135	22-Feb-23	2	WL
WLMM141	21-Feb-23	1	WL
WLMM147	22-Feb-23	7	WL
	4-May-23	2	WL
	2-Jun-23	5	WL
	7-Jul-23	3	WL
WLMM149	13-Oct-23	1	WL
WLMM150	2-Mar-23	1	WL
	6-Nov-23	8	SWL
WLMM152	4-May-23	5	WL
WLMM159	4-May-23	2	WL
		6	WL
	9-Jun-23	5	WL
WLMM160	11-Jul-23	5	WL
WLMM162	27-Dec-23	4	WL
WLMM167	7-Jul-23	3	WL
WLMM168	9-Jun-23	1	WL
	6-Nov-23	8	SWL
WLMM174	2-Mar-23	1	WL
WLMM181	1-Mar-23	2	WL
	I Widi 20	3	WL
WLMM182	1-Mar-23	2	WL
WLMM183	1-Mar-23	4	WL

Individual ID	Date of sighting (dd-mmm-yy)	Sighting No.	Area
WLMM184	1-Mar-23	4	WL
WLMM185	1-Mar-23	4	WL
WLMM186	1-Mar-23	5	WL
WLMM187	4-May-23	6	WL
WLMM188	2-Jun-23	3	WL
WLMM189	11-Jul-23	5	WL
WLMM190	8-Aug-23	5	WL
WLMM191	20-Sep-23	2	WL
WLMM192	13-Oct-23	4	WL
WLMM193	15-Nov-23	1	AW
WLMM194	27-Dec-23	8	WL

Table 10: Land-based Survey, Theodolite Effort and CWD Group Summary in 2023

Land-based Station	# of Survey Sessions	Survey Effort (hh:mm)	# CWD Groups Sighted	CWD Group Sighting per Survey Hr	# Groups After Filtering	# of 10- minutes segments
Sha Chau	12	72:00	0	0	0	0
Lung Kwu Chau	12	72:00	7	0.10	6	10
TOTAL	24	144:00	7	0.05	6	10

Table 11: Land-based CWD Focal Group Size Summary in 2023

	•				
Category	n (sample size)	Minimum # Individuals	Maximum # Individuals	Mean Grp Size	Standard Deviation
Lung Kwu Chau Station Total	7	1	7	2.7	2.2
Winter	5	1	7	3.4	2.3
Spring	0	0	0	0	0
Summer	2	1	1	1	0
Autumn	0	0	0	0	0
Dry	5	1	7	3.4	2.3
Wet	2	1	1	1	0
Inside SCLKCMP boundary	2	1	1	1	0
Crossing SCLKCMP boundary	4	1	7	3.8	2.5
Outside SCLKCMP boundary	1	2	2	2	0
No vessel	4	1	3	1.8	1
High speed ferry within 500 m	0	0	0	0	0
Other vessels within 500 m	3	1	7	4	3

Table 12: CWD Mean Swimming Speed, Reorientation Rate, and Linearity based on Vessel Presence recorded from Lung Kwu Chau in 2023 (based on filtered short-track segments)

			Mean	
Vessel Type	Segment Sample Size	Mean Speed (Std. dev.)	Reorientation Rate (Std. dev.)	Mean Linearity (Std. dev.)
No vessel	3	5.79 (2.06)	29.19 (24.90)	0.75 (0.31)
High speed ferry	0	0	0	0
Other vessels	7	3.37 (1.07)	28.06 (25.84)	0.76 (0.22)

Table 13: Summary of PAM Deployments and Dolphin Detections, 30 Dec 2022 to 3 Jan 2024

Site	Dep#	Deployment date (dd/mm/yyyy)	Retrieval date (dd/mm/yyyy)	Dep days	Logged days	Dolphin DPM	Dolphin DPD	DPD % of days
A5	1	30/12/2022	07/03/2023	68	68.0	65	19	27.94%
A5	2	07/03/2023	23/05/2023	78	78.0	28	11	14.10%
A5	3	23/05/2023	01/08/2023	71	71.0	8	4	5.63%
A5	4	01/08/2023	01/11/2023	93	93.0	11	6	6.45%
A5	5	01/11/2023	04/01/2024	65	65.0	4	3	4.61%
A5	Total	30/12/2022	04/01/2024	375	374.99	116	43	11.47%

Remarks:

Dep = Deployment

DPD = detection positive days (days with one or more dolphin detections)

DPM = detection positive minutes (minutes with at least one dolphin click train detected)

DPD % = detection positive days as a percentage of total logged days

Table 14: Summary of PAM Deployments and Dolphin Detections in Previous Year (10 Jan 2022 to 30 Dec 2022)

Site	Dep #	Deployment date (dd/mm/yyyy)	Retrieval date (dd/mm/yyyy)	Dep days	Logged days	Dolphin DPM	Dolphin DPD	DPD % of days
A5	1	10/01/2022	08/03/2022	58	58.0	84	16	27.60%
A5	2	08/03/2022	16/05/2022	70	70.0	28	12	17.15%
A5	3	16/05/2022	11/08/2022	88	88.0	17	9	10.23%
A5	4	11/08/2022	20/10/2022	71	71.0	0	0	0%
A5	5	20/10/2022	30/12/2022	72	72.0	86	15	20.84%
A5	Total	10/01/2022	30/12/2022	359	358.9	215	52	14.49%

Remarks:

Dep = Deployment

DPD = detection positive days (days with one or more dolphin detections)

DPM = detection positive minutes (minutes with at least one dolphin click train detected)

DPD % = detection positive days as a percentage of total logged days

## **CWD Small Vessel Line-transect Survey**

# **Survey Effort Data**

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
06-Jan-23	NWL	2	27.910	WINTER	32166	3RS ET	Р
06-Jan-23	NWL	3	34.020	WINTER	32166	3RS ET	Р
06-Jan-23	NWL	2	5.290	WINTER	32166	3RS ET	S
06-Jan-23	NWL	3	6.780	WINTER	32166	3RS ET	S
09-Jan-23	NWL	2	22.370	WINTER	32166	3RS ET	Р
09-Jan-23	NWL	3	39.710	WINTER	32166	3RS ET	Р
09-Jan-23	NWL	2	3.350	WINTER	32166	3RS ET	S
09-Jan-23	NWL	3	8.820	WINTER	32166	3RS ET	S
10-Jan-23	SWL	2	56.930	WINTER	32166	3RS ET	Р
10-Jan-23	SWL	2	13.570	WINTER	32166	3RS ET	S
12-Jan-23	AW	2	2.890	WINTER	32166	3RS ET	Р
12-Jan-23	AW	3	1.690	WINTER	32166	3RS ET	Р
12-Jan-23	WL	2	17.170	WINTER	32166	3RS ET	Р
12-Jan-23	WL	3	2.500	WINTER	32166	3RS ET	Р
12-Jan-23	WL	2	9.830	WINTER	32166	3RS ET	S
12-Jan-23	WL	3	1.100	WINTER	32166	3RS ET	S
13-Jan-23	SWL	1	3.380	WINTER	32166	3RS ET	Р
13-Jan-23	SWL	2	50.173	WINTER	32166	3RS ET	Р
13-Jan-23	SWL	1	2.050	WINTER	32166	3RS ET	S
13-Jan-23	SWL	2	16.697	WINTER	32166	3RS ET	S
16-Jan-23	NEL	2	8.200	WINTER	32166	3RS ET	Р
16-Jan-23	NEL	3	28.750	WINTER	32166	3RS ET	Р
16-Jan-23	NEL	2	4.200	WINTER	32166	3RS ET	S
16-Jan-23	NEL	3	6.150	WINTER	32166	3RS ET	S
16-Jan-23	DB	3	7.660	WINTER	32166	3RS ET	Р
16-Jan-23	DB	3	3.940	WINTER	32166	3RS ET	S
17-Jan-23	DB	2	7.360	WINTER	32166	3RS ET	Р
17-Jan-23	DB	2	4.340	WINTER	32166	3RS ET	S
17-Jan-23	NEL	2	28.590	WINTER	32166	3RS ET	Р
17-Jan-23	NEL	3	8.380	WINTER	32166	3RS ET	Р
17-Jan-23	NEL	2	10.130	WINTER	32166	3RS ET	S
18-Jan-23	WL	3	15.140	WINTER	32166	3RS ET	Р
18-Jan-23	WL	4	5.200	WINTER	32166	3RS ET	Р
18-Jan-23	WL	3	7.360	WINTER	32166	3RS ET	S
18-Jan-23	WL	4	3.200	WINTER	32166	3RS ET	S
18-Jan-23	AW	2	4.760	WINTER	32166	3RS ET	Р
07-Feb-23	SWL	1	2.430	WINTER	32166	3RS ET	Р
07-Feb-23	SWL	2	43.158	WINTER	32166	3RS ET	Р
07-Feb-23	SWL	3	8.780	WINTER	32166	3RS ET	Р
07-Feb-23	SWL	2	12.322	WINTER	32166	3RS ET	S
07-Feb-23	SWL	3	3.000	WINTER	32166	3RS ET	S
08-Feb-23	DB	2	7.510	WINTER	32166	3RS ET	Р
08-Feb-23	DB	3	3.990	WINTER	32166	3RS ET	S
08-Feb-23	NEL	2	22.760	WINTER	32166	3RS ET	Р
08-Feb-23	NEL	3	14.500	WINTER	32166	3RS ET	Р
08-Feb-23	NEL	2	7.170	WINTER	32166	3RS ET	S
08-Feb-23	NEL	3	2.970	WINTER	32166	3RS ET	S
13-Feb-23	SWL	2	51.784	WINTER	32166	3RS ET	Р

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
13-Feb-23	SWL	3	1.500	WINTER	32166	3RS ET	Р
13-Feb-23	SWL	2	16.273	WINTER	32166	3RS ET	S
14-Feb-23	DB	3	7.590	WINTER	32166	3RS ET	Р
14-Feb-23	DB	3	4.010	WINTER	32166	3RS ET	S
14-Feb-23	NEL	2	26.770	WINTER	32166	3RS ET	Р
14-Feb-23	NEL	3	9.330	WINTER	32166	3RS ET	Р
14-Feb-23	NEL	4	1.180	WINTER	32166	3RS ET	Р
14-Feb-23	NEL	2	8.820	WINTER	32166	3RS ET	S
14-Feb-23	NEL	3	0.800	WINTER	32166	3RS ET	S
16-Feb-23	NWL	2	10.780	WINTER	32166	3RS ET	Р
16-Feb-23	NWL	3	51.368	WINTER	32166	3RS ET	Р
16-Feb-23	NWL	2	3.860	WINTER	32166	3RS ET	S
16-Feb-23	NWL	3	7.940	WINTER	32166	3RS ET	S
20-Feb-23	NWL	2	11.500	WINTER	32166	3RS ET	Р
20-Feb-23	NWL	3	50.750	WINTER	32166	3RS ET	Ρ
20-Feb-23	NWL	2	4.200	WINTER	32166	3RS ET	S
20-Feb-23	NWL	3	7.850	WINTER	32166	3RS ET	S
21-Feb-23	AW	2	4.700	WINTER	32166	3RS ET	Р
21-Feb-23	WL	2	4.530	WINTER	32166	3RS ET	Р
21-Feb-23	WL	3	12.181	WINTER	32166	3RS ET	Р
21-Feb-23	WL	4	2.220	WINTER	32166	3RS ET	Р
21-Feb-23	WL	5	0.370	WINTER	32166	3RS ET	Р
21-Feb-23	WL	2	5.229	WINTER	32166	3RS ET	S
21-Feb-23	WL	3	1.159	WINTER	32166	3RS ET	S
21-Feb-23	WL	4	3.810	WINTER	32166	3RS ET	S
22-Feb-23	AW	3	3.970	WINTER	32166	3RS ET	Р
22-Feb-23	WL	3	15.367	WINTER	32166	3RS ET	Р
22-Feb-23	WL	4	1.380	WINTER	32166	3RS ET	Р
22-Feb-23	WL	3	7.158	WINTER	32166	3RS ET	S
22-Feb-23	WL	4	2.670	WINTER	32166	3RS ET	S
01-Mar-23	AW	2	4.970	SPRING	32166	3RS ET	Р
01-Mar-23	WL	2	11.695	SPRING	32166	3RS ET	Р
01-Mar-23	WL	2	6.491	SPRING	32166	3RS ET	S
02-Mar-23	AW	2	1.190	SPRING	32166	3RS ET	Р
02-Mar-23	AW	3	3.880	SPRING	32166	3RS ET	Р
02-Mar-23	WL	2	3.848	SPRING	32166	3RS ET	Р
02-Mar-23	WL	3	15.030	SPRING	32166	3RS ET	Р
02-Mar-23	WL	4	1.200	SPRING	32166	3RS ET	Р
02-Mar-23	WL	2	2.520	SPRING	32166	3RS ET	S
02-Mar-23	WL	3	6.430	SPRING	32166	3RS ET	S
02-Mar-23	WL	4	1.030	SPRING	32166	3RS ET	S
03-Mar-23	NWL	2	41.440	SPRING	32166	3RS ET	Р
03-Mar-23	NWL	3	21.770	SPRING	32166	3RS ET	Р
03-Mar-23	NWL	2	11.390	SPRING	32166	3RS ET	S
06-Mar-23	NEL	2	5.820	SPRING	32166	3RS ET	Р
06-Mar-23	NEL	3	31.280	SPRING	32166	3RS ET	Р
06-Mar-23	NEL	2	3.950	SPRING	32166	3RS ET	S
06-Mar-23	NEL	3	5.650	SPRING	32166	3RS ET	S
06-Mar-23	DB	2	7.890	SPRING	32166	3RS ET	Р

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
06-Mar-23	DB	2	3.640	SPRING	32166	3RS ET	S
07-Mar-23	NWL	2	38.700	SPRING	32166	3RS ET	Р
07-Mar-23	NWL	3	23.095	SPRING	32166	3RS ET	Р
07-Mar-23	NWL	2	5.645	SPRING	32166	3RS ET	S
07-Mar-23	NWL	3	4.860	SPRING	32166	3RS ET	S
09-Mar-23	SWL	2	53.106	SPRING	32166	3RS ET	Р
09-Mar-23	SWL	2	15.716	SPRING	32166	3RS ET	S
10-Mar-23	SWL	2	6.340	SPRING	32166	3RS ET	Р
10-Mar-23	SWL	3	36.560	SPRING	32166	3RS ET	Р
10-Mar-23	SWL	4	10.900	SPRING	32166	3RS ET	Р
10-Mar-23	SWL	2	0.800	SPRING	32166	3RS ET	S
10-Mar-23	SWL	3	11.640	SPRING	32166	3RS ET	S
10-Mar-23	SWL	4	4.000	SPRING	32166	3RS ET	S
13-Mar-23	NEL	2	36.470	SPRING	32166	3RS ET	Р
13-Mar-23	NEL	2	10.830	SPRING	32166	3RS ET	S
13-Mar-23	DB	2	7.310	SPRING	32166	3RS ET	Р
13-Mar-23	DB	2	4.090	SPRING	32166	3RS ET	S
11-Apr-23	DB	2	7.790	SPRING	32166	3RS ET	Р
11-Apr-23	DB	2	4.310	SPRING	32166	3RS ET	S
11-Apr-23	NEL	2	26.630	SPRING	32167	3RS ET	Р
11-Apr-23	NEL	3	10.200	SPRING	32166	3RS ET	Р
11-Apr-23	NEL	2	7.570	SPRING	32166	3RS ET	S
11-Apr-23	NEL	3	2.300	SPRING	32166	3RS ET	S
12-Apr-23	SWL	1	22.368	SPRING	32166	3RS ET	Р
12-Apr-23	SWL	2	30.970	SPRING	32166	3RS ET	Р
12-Apr-23	SWL	1	10.270	SPRING	32166	3RS ET	S
12-Apr-23	SWL	2	5.460	SPRING	32166	3RS ET	S
13-Apr-23	WL	2	10.107	SPRING	32166	3RS ET	Р
13-Apr-23	WL	3	8.141	SPRING	32166	3RS ET	Р
13-Apr-23	WL	2	4.103	SPRING	32166	3RS ET	S
13-Apr-23	WL	3	6.578	SPRING	32166	3RS ET	S
13-Apr-23	AW	3	4.900	SPRING	32166	3RS ET	Р
14-Apr-23	SWL	2	44.965	SPRING	32166	3RS ET	Р
14-Apr-23	SWL	3	9.510	SPRING	32166	3RS ET	Р
14-Apr-23	SWL	2	13.425	SPRING	32166	3RS ET	S
14-Apr-23	SWL	3	2.000	SPRING	32166	3RS ET	S
18-Apr-23	AW	3	4.720	SPRING	32166	3RS ET	Р
18-Apr-23	WL	3	19.170	SPRING	32166	3RS ET	Р
18-Apr-23	WL	3	10.170	SPRING	32166	3RS ET	S
19-Apr-23	DB	3	6.860	SPRING	32166	3RS ET	Р
19-Apr-23	DB	4	0.300	SPRING	32166	3RS ET	Р
19-Apr-23	DB	3	1.860	SPRING	32166	3RS ET	S
19-Apr-23	DB	4	2.080	SPRING	32166	3RS ET	S
19-Apr-23	NEL	3	25.790	SPRING	32166	3RS ET	Р
19-Apr-23	NEL	4	10.700	SPRING	32166	3RS ET	Р
19-Apr-23	NEL	3	8.980	SPRING	32166	3RS ET	S
19-Apr-23	NEL	4	0.900	SPRING	32166	3RS ET	S
20-Apr-23	NWL	2	61.800	SPRING	32166	3RS ET	Р
20-Apr-23	NWL	2	13.600	SPRING	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
21-Apr-23	NWL	3	41.400	SPRING	32166	3RS ET	Р
21-Apr-23	NWL	4	22.400	SPRING	32166	3RS ET	Р
21-Apr-23	NWL	3	9.300	SPRING	32166	3RS ET	S
21-Apr-23	NWL	4	1.900	SPRING	32166	3RS ET	S
04-May-23	WL	2	9.370	SPRING	32166	3RS ET	Р
04-May-23	WL	3	5.924	SPRING	32166	3RS ET	Р
04-May-23	WL	2	4.130	SPRING	32166	3RS ET	S
04-May-23	WL	3	4.963	SPRING	32166	3RS ET	S
04-May-23	AW	2	4.790	SPRING	32166	3RS ET	Р
09-May-23	DB	2	7.470	SPRING	32166	3RS ET	Р
09-May-23	DB	2	4.230	SPRING	32166	3RS ET	S
09-May-23	NEL	2	20.000	SPRING	32166	3RS ET	Р
09-May-23	NEL	3	17.600	SPRING	32166	3RS ET	Р
09-May-23	NEL	2	6.500	SPRING	32166	3RS ET	S
09-May-23	NEL	3	3.100	SPRING	32166	3RS ET	S
10-May-23	DB	2	1.520	SPRING	32166	3RS ET	Р
10-May-23	DB	3	6.050	SPRING	32166	3RS ET	Р
10-May-23	DB	2	0.910	SPRING	32166	3RS ET	S
10-May-23	DB	3	3.120	SPRING	32166	3RS ET	S
10-May-23	NEL	2	2.640	SPRING	32166	3RS ET	Р
10-May-23	NEL	3	32.710	SPRING	32166	3RS ET	Р
10-May-23	NEL	4	1.700	SPRING	32166	3RS ET	Р
10-May-23	NEL	2	1.980	SPRING	32166	3RS ET	S
10-May-23	NEL	3	8.370	SPRING	32166	3RS ET	S
11-May-23	NWL	2	14.500	SPRING	32166	3RS ET	Р
11-May-23	NWL	3	48.500	SPRING	32166	3RS ET	Р
11-May-23	NWL	2	2.100	SPRING	32166	3RS ET	S
11-May-23	NWL	3	9.800	SPRING	32166	3RS ET	S
15-May-23	SWL	2	53.890	SPRING	32166	3RS ET	Ρ
15-May-23	SWL	2	16.110	SPRING	32166	3RS ET	S
16-May-23	NWL	2	29.700	SPRING	32166	3RS ET	Р
16-May-23	NWL	3	34.100	SPRING	32166	3RS ET	Р
16-May-23	NWL	2	6.400	SPRING	32166	3RS ET	S
16-May-23	NWL	3	5.000	SPRING	32166	3RS ET	S
18-May-23	SWL	2	48.250	SPRING	32166	3RS ET	Р
18-May-23	SWL	3	4.660	SPRING	32166	3RS ET	Р
18-May-23	SWL	2	15.050	SPRING	32166	3RS ET	S
18-May-23	SWL	3	1.060	SPRING	32166	3RS ET	S
23-May-23	AW	3	4.630	SPRING	32166	3RS ET	Р
23-May-23	WL	2	9.160	SPRING	32166	3RS ET	Р
23-May-23	WL	3	10.106	SPRING	32166	3RS ET	Р
23-May-23	WL	2	2.470	SPRING	32166	3RS ET	S
23-May-23	WL	3	7.890	SPRING	32166	3RS ET	S
01-Jun-23	SWL	1	6.440	SUMMER	32166	3RS ET	Р
01-Jun-23	SWL	2	34.380	SUMMER	32166	3RS ET	Р
01-Jun-23	SWL	3	12.900	SUMMER	32166	3RS ET	Р
01-Jun-23	SWL	2	15.380	SUMMER	32166	3RS ET	S
01-Jun-23	SWL	3	1.000	SUMMER	32166	3RS ET	S
02-Jun-23	WL	2	16.884	SUMMER	32166	3RS ET	Р

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
02-Jun-23	WL	2	8.320	SUMMER	32166	3RS ET	S
02-Jun-23	AW	1	4.790	SUMMER	32166	3RS ET	Р
05-Jun-23	NWL	2	3.480	SUMMER	32166	3RS ET	Р
05-Jun-23	NWL	3	49.220	SUMMER	32166	3RS ET	Р
05-Jun-23	NWL	4	10.900	SUMMER	32166	3RS ET	Р
05-Jun-23	NWL	3	9.600	SUMMER	32166	3RS ET	S
05-Jun-23	NWL	4	2.500	SUMMER	32166	3RS ET	S
08-Jun-23	SWL	2	0.700	SUMMER	32166	3RS ET	Р
08-Jun-23	SWL	3	51.824	SUMMER	32166	3RS ET	Р
08-Jun-23	SWL	4	1.013	SUMMER	32166	3RS ET	Р
08-Jun-23	SWL	2	1.800	SUMMER	32166	3RS ET	S
08-Jun-23	SWL	3	13.880	SUMMER	32166	3RS ET	S
09-Jun-23	AW	2	4.650	SUMMER	32166	3RS ET	Р
09-Jun-23	WL	1	1.930	SUMMER	32166	3RS ET	Р
09-Jun-23	WL	2	14.782	SUMMER	32166	3RS ET	Р
09-Jun-23	WL	1	2.240	SUMMER	32166	3RS ET	S
09-Jun-23	WL	2	5.948	SUMMER	32166	3RS ET	S
09-Jun-23	WL	3	0.300	SUMMER	32166	3RS ET	S
13-Jun-23	NWL	2	59.180	SUMMER	32166	3RS ET	Р
13-Jun-23	NWL	3	3.100	SUMMER	32166	3RS ET	Р
13-Jun-23	NWL	2	12.420	SUMMER	32166	3RS ET	S
14-Jun-23	DB	2	7.390	SUMMER	32166	3RS ET	Р
14-Jun-23	DB	2	3.710	SUMMER	32166	3RS ET	S
14-Jun-23	NEL	2	37.440	SUMMER	32166	3RS ET	Р
14-Jun-23	NEL	2	10.060	SUMMER	32166	3RS ET	S
20-Jun-23	NEL	2	33.080	SUMMER	32166	3RS ET	Р
20-Jun-23	NEL	3	4.120	SUMMER	32166	3RS ET	Р
20-Jun-23	NEL	2	10.200	SUMMER	32166	3RS ET	S
20-Jun-23	DB	3	1.500	SUMMER	32166	3RS ET	Р
20-Jun-23	DB	4	6.060	SUMMER	32166	3RS ET	Р
20-Jun-23	DB	3	2.020	SUMMER	32166	3RS ET	S
20-Jun-23	DB	4	1.820	SUMMER	32166	3RS ET	S
04-Jul-23	NEL	2	34.860	SUMMER	32166	3RS ET	Р
04-Jul-23	NEL	3	2.000	SUMMER	32166	3RS ET	Р
04-Jul-23	NEL	2	10.040	SUMMER	32166	3RS ET	S
04-Jul-23	DB	3	7.260	SUMMER	32166	3RS ET	Р
04-Jul-23	DB	3	4.340	SUMMER	32166	3RS ET	S
06-Jul-23	NWL	2	15.200	SUMMER	32166	3RS ET	Р
06-Jul-23	NWL	3	48.600	SUMMER	32166	3RS ET	Р
06-Jul-23	NWL	3	11.700	SUMMER	32166	3RS ET	S
07-Jul-23	AW	3	4.720	SUMMER	32166	3RS ET	Р
07-Jul-23	WL	3	18.416	SUMMER	32166	3RS ET	Р
07-Jul-23	WL	3	9.974	SUMMER	32166	3RS ET	S
07-Jul-23	WL	4	1.030	SUMMER	32166	3RS ET	S
10-Jul-23	DB	3	7.640	SUMMER	32166	3RS ET	Р
10-Jul-23	DB	3	3.960	SUMMER	32166	3RS ET	S
10-Jul-23	NEL	2	10.000	SUMMER	32166	3RS ET	Р
10-Jul-23	NEL	3	26.250	SUMMER	32166	3RS ET	Р
10-Jul-23	NEL	2	3.950	SUMMER	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
10-Jul-23	NEL	3	6.700	SUMMER	32166	3RS ET	S
11-Jul-23	WL	2	0.914	SUMMER	32166	3RS ET	Р
11-Jul-23	WL	3	16.632	SUMMER	32166	3RS ET	Р
11-Jul-23	WL	3	9.308	SUMMER	32166	3RS ET	S
11-Jul-23	AW	3	4.730	SUMMER	32166	3RS ET	Р
12-Jul-23	SWL	2	42.491	SUMMER	32166	3RS ET	Р
12-Jul-23	SWL	3	12.177	SUMMER	32166	3RS ET	Р
12-Jul-23	SWL	2	12.122	SUMMER	32166	3RS ET	S
12-Jul-23	SWL	3	3.070	SUMMER	32166	3RS ET	S
13-Jul-23	SWL	2	31.460	SUMMER	32166	3RS ET	Ρ
13-Jul-23	SWL	3	21.490	SUMMER	32166	3RS ET	Р
13-Jul-23	SWL	2	12.180	SUMMER	32166	3RS ET	S
13-Jul-23	SWL	3	4.500	SUMMER	32166	3RS ET	S
14-Jul-23	NWL	2	63.800	SUMMER	32166	3RS ET	Р
14-Jul-23	NWL	2	11.700	SUMMER	32166	3RS ET	S
02-Aug-23	SWL	2	35.924	SUMMER	32166	3RS ET	Р
02-Aug-23	SWL	3	14.605	SUMMER	32166	3RS ET	Р
02-Aug-23	SWL	2	13.071	SUMMER	32166	3RS ET	S
02-Aug-23	SWL	3	2.370	SUMMER	32166	3RS ET	S
03-Aug-23	SWL	2	50.260	SUMMER	32166	3RS ET	Р
03-Aug-23	SWL	3	3.500	SUMMER	32166	3RS ET	Р
03-Aug-23	SWL	2	14.140	SUMMER	32166	3RS ET	S
03-Aug-23	SWL	3	1.100	SUMMER	32166	3RS ET	S
08-Aug-23	AW	2	4.770	SUMMER	32166	3RS ET	Р
08-Aug-23	WL	2	5.650	SUMMER	32166	3RS ET	Р
08-Aug-23	WL	3	13.958	SUMMER	32166	3RS ET	Р
08-Aug-23	WL	2	3.236	SUMMER	32166	3RS ET	S
08-Aug-23	WL	3	6.443	SUMMER	32166	3RS ET	S
09-Aug-23	NWL	1	3.200	SUMMER	32166	3RS ET	Р
09-Aug-23	NWL	2	58.200	SUMMER	32166	3RS ET	Р
09-Aug-23	NWL	3	2.100	SUMMER	32166	3RS ET	Р
09-Aug-23	NWL	1	12.2	SUMMER	32166	3RS ET	S
16-Aug-23	NEL	2	19.31	SUMMER	32166	3RS ET	Р
16-Aug-23	NEL	3	17.6	SUMMER	32166	3RS ET	Р
16-Aug-23	NEL	2	8.19	SUMMER	32166	3RS ET	S
16-Aug-23	NEL	3	1.8	SUMMER	32166	3RS ET	S
16-Aug-23	DB	2	0.833	SUMMER	32166	3RS ET	Р
16-Aug-23	DB	3	6.787	SUMMER	32166	3RS ET	Р
16-Aug-23	DB	3	3.78	SUMMER	32166	3RS ET	S
17-Aug-23	NEL	2	37.41	SUMMER	32166	3RS ET	Р
17-Aug-23	NEL	2	9.99	SUMMER	32166	3RS ET	S
17-Aug-23	DB	2	7.39	SUMMER	32166	3RS ET	Р
17-Aug-23	DB	2	3.81	SUMMER	32166	3RS ET	S
22-Aug-23	NWL	2	63.5	SUMMER	32166	3RS ET	Р
22-Aug-23	NWL	2	12.2	SUMMER	32166	3RS ET	S
24-Aug-23	AW	2	4.8	SUMMER	32166	3RS ET	Р
24-Aug-23	WL	2	13.49	SUMMER	32166	3RS ET	Р
24-Aug-23	WL	3	6.15	SUMMER	32166	3RS ET	Р
24-Aug-23	WL	2	6.47	SUMMER	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
24-Aug-23	WL	3	3.42	SUMMER	32166	3RS ET	S
06-Sep-23	NEL	1	2.34	AUTUMN	32166	3RS ET	Р
06-Sep-23	NEL	2	34.54	AUTUMN	32166	3RS ET	Р
06-Sep-23	NEL	1	0.67	AUTUMN	32166	3RS ET	S
06-Sep-23	NEL	2	9.25	AUTUMN	32166	3RS ET	S
06-Sep-23	DB	2	7.29	AUTUMN	32166	3RS ET	Р
06-Sep-23	DB	2	3.91	AUTUMN	32166	3RS ET	S
13-Sep-23	SWL	3	55.03	AUTUMN	32166	3RS ET	Р
13-Sep-23	SWL	3	14.57	AUTUMN	32166	3RS ET	S
15-Sep-23	NEL	2	13.6	AUTUMN	32166	3RS ET	Р
15-Sep-23	NEL	3	23.82	AUTUMN	32166	3RS ET	Р
15-Sep-23	NEL	2	5.98	AUTUMN	32166	3RS ET	S
15-Sep-23	NEL	3	4.2	AUTUMN	32166	3RS ET	S
15-Sep-23	DB	2	7.27	AUTUMN	32166	3RS ET	Р
15-Sep-23	DB	2	4.23	AUTUMN	32166	3RS ET	S
18-Sep-23	SWL	2	17.1	AUTUMN	32166	3RS ET	Р
18-Sep-23	SWL	3	36.7	AUTUMN	32166	3RS ET	Р
18-Sep-23	SWL	2	2.74	AUTUMN	32166	3RS ET	S
18-Sep-23	SWL	3	13	AUTUMN	32166	3RS ET	S
20-Sep-23	WL	1	9.19	AUTUMN	32166	3RS ET	Р
20-Sep-23	WL	2	7.4	AUTUMN	32166	3RS ET	Р
20-Sep-23	WL	3	1.904	AUTUMN	32166	3RS ET	Р
20-Sep-23	WL	1	4.95	AUTUMN	32166	3RS ET	S
20-Sep-23	WL	2	4.11	AUTUMN	32166	3RS ET	S
20-Sep-23	WL	3	2.186	AUTUMN	32166	3RS ET	S
20-Sep-23	AW	1	4.63	AUTUMN	32166	3RS ET	Р
21-Sep-23	AW	2	4.56	AUTUMN	32166	3RS ET	Р
21-Sep-23	WL	1	3.93	AUTUMN	32166	3RS ET	Р
21-Sep-23	WL	2	12.869	AUTUMN	32166	3RS ET	Р
21-Sep-23	WL	2	11.546	AUTUMN	32166	3RS ET	S
22-Sep-23	NWL	2	63.9	AUTUMN	32166	3RS ET	Р
22-Sep-23	NWL	2	12	AUTUMN	32166	3RS ET	S
25-Sep-23	NWL	2	1.62	AUTUMN	32166	3RS ET	Р
25-Sep-23	NWL	3	43.48	AUTUMN	32166	3RS ET	Р
25-Sep-23	NWL	4	18.2	AUTUMN	32166	3RS ET	Р
25-Sep-23	NWL	3	8.9	AUTUMN	32166	3RS ET	S
25-Sep-23	NWL	4	3.2	AUTUMN	32166	3RS ET	S
06-Oct-23	DB	2	3.18	SUMMER	32166	3RS ET	Р
06-Oct-23	DB	3	4.27	SUMMER	32166	3RS ET	Р
06-Oct-23	DB	2	1.94	SUMMER	32166	3RS ET	S
06-Oct-23	DB	3	1.91	SUMMER	32166	3RS ET	S
06-Oct-23	NEL	2	26.24	AUTUMN	32166	3RS ET	P
06-Oct-23	NEL	3	10.33	AUTUMN	32166	3RS ET	P
06-Oct-23	NEL	4	0.77	AUTUMN	32166	3RS ET	Р
06-Oct-23	NEL	2	6.37	AUTUMN	32166	3RS ET	S
06-Oct-23	NEL	3	4.39	AUTUMN	32166	3RS ET	S
12-Oct-23	NWL	2	11.4	AUTUMN	32166	3RS ET	P
12-Oct-23	NWL	3	52.8	AUTUMN	32166	3RS ET	Р
12-Oct-23	NWL	2	4.3	AUTUMN	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
12-Oct-23	NWL	3	7.3	AUTUMN	32166	3RS ET	S
13-Oct-23	AW	2	1.7	AUTUMN	32166	3RS ET	Р
13-Oct-23	AW	3	3.03	AUTUMN	32166	3RS ET	Р
13-Oct-23	WL	2	11.126	AUTUMN	32166	3RS ET	Р
13-Oct-23	WL	3	7.776	AUTUMN	32166	3RS ET	Р
13-Oct-23	WL	2	4.944	AUTUMN	32166	3RS ET	S
13-Oct-23	WL	3	5.384	AUTUMN	32166	3RS ET	S
16-Oct-23	NWL	3	63.8	AUTUMN	32166	3RS ET	Р
16-Oct-23	NWL	3	11.8	AUTUMN	32166	3RS ET	S
17-Oct-23	DB	3	4.98	AUTUMN	32166	3RS ET	Р
17-Oct-23	DB	4	2.38	AUTUMN	32166	3RS ET	Р
17-Oct-23	DB	3	3.04	AUTUMN	32166	3RS ET	S
17-Oct-23	DB	4	1.1	AUTUMN	32166	3RS ET	S
17-Oct-23	NEL	2	1.7	AUTUMN	32166	3RS ET	Р
17-Oct-23	NEL	3	33.64	AUTUMN	32166	3RS ET	Р
17-Oct-23	NEL	2	4.5	AUTUMN	32166	3RS ET	S
17-Oct-23	NEL	3	7.26	AUTUMN	32166	3RS ET	S
20-Oct-23	AW	3	4.52	AUTUMN	32166	3RS ET	Р
20-Oct-23	WL	2	4.763	AUTUMN	32166	3RS ET	Р
20-Oct-23	WL	3	15.33	AUTUMN	32166	3RS ET	Р
20-Oct-23	WL	2	2.967	AUTUMN	32166	3RS ET	S
20-Oct-23	WL	3	7.67	AUTUMN	32166	3RS ET	S
26-Oct-23	SWL	3	53.33	AUTUMN	32166	3RS ET	Р
26-Oct-23	SWL	4	1.1	AUTUMN	32166	3RS ET	Ρ
26-Oct-23	SWL	3	14.97	AUTUMN	32166	3RS ET	S
26-Oct-23	SWL	4	0.9	AUTUMN	32166	3RS ET	S
27-Oct-23	SWL	2	8.81	AUTUMN	32166	3RS ET	Р
27-Oct-23	SWL	3	45.261	AUTUMN	32166	3RS ET	Р
27-Oct-23	SWL	2	3.59	AUTUMN	32166	3RS ET	S
27-Oct-23	SWL	3	12.389	AUTUMN	32166	3RS ET	S
06-Nov-23	SWL	2	35.185	AUTUMN	32166	3RS ET	Р
06-Nov-23	SWL	3	16.77	AUTUMN	32166	3RS ET	Р
06-Nov-23	SWL	2	12.371	AUTUMN	32166	3RS ET	S
06-Nov-23	SWL	3	3.57	AUTUMN	32166	3RS ET	S
07-Nov-23	DB	2	0.34	AUTUMN	32166	3RS ET	Р
07-Nov-23	DB	3	7.11	AUTUMN	32166	3RS ET	Р
07-Nov-23	DB	2	1	AUTUMN	32166	3RS ET	S
07-Nov-23	DB	3	2.85	AUTUMN	32166	3RS ET	S
07-Nov-23	NEL	2	12.86	AUTUMN	32166	3RS ET	Р
07-Nov-23	NEL	3	18.4	AUTUMN	32166	3RS ET	P
07-Nov-23	NEL	1	5	AUTUMN	32166	3RS ET	Р
07-Nov-23	NEL	2	7.64	AUTUMN	32166	3RS ET	S
07-Nov-23	NEL	3	1.1	AUTUMN	32166	3RS ET	S
07-Nov-23	NEL	1	1.7	AUTUMN	32166	3RS ET	S
09-Nov-23	NWL	2	0.9	AUTUMN	32166	3RS ET	P
09-Nov-23	NWL	3	59.3	AUTUMN	32166	3RS ET	Р
09-Nov-23	NWL	3	10.2	AUTUMN	32166	3RS ET	S
09-Nov-23	NWL	4	3.5	AUTUMN	32166	3RS ET	Р
09-Nov-23	NWL	4	1	AUTUMN	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
13-Nov-23	AW	3	6.49	AUTUMN	32166	3RS ET	Р
13-Nov-23	WL	3	9.799	AUTUMN	32166	3RS ET	Р
13-Nov-23	WL	3	8.121	AUTUMN	32166	3RS ET	S
13-Nov-23	WL	4	9.56	AUTUMN	32166	3RS ET	Р
13-Nov-23	WL	4	2.89	AUTUMN	32166	3RS ET	S
14-Nov-23	NWL	2	22.6	AUTUMN	32166	3RS ET	Р
14-Nov-23	NWL	3	41	AUTUMN	32166	3RS ET	Р
14-Nov-23	NWL	3	6	AUTUMN	32166	3RS ET	S
14-Nov-23	NWL	2	5.8	AUTUMN	32166	3RS ET	S
15-Nov-23	AW	2	1.34	AUTUMN	32166	3RS ET	Р
15-Nov-23	AW	3	2.96	AUTUMN	32166	3RS ET	Р
15-Nov-23	WL	2	0.25	AUTUMN	32166	3RS ET	Р
15-Nov-23	WL	3	18.362	AUTUMN	32166	3RS ET	Р
15-Nov-23	WL	2	1.13	AUTUMN	32166	3RS ET	S
15-Nov-23	WL	3	8.41	AUTUMN	32166	3RS ET	S
16-Nov-23	DB	4	7.53	AUTUMN	32166	3RS ET	Р
16-Nov-23	DB	4	3.67	AUTUMN	32166	3RS ET	S
16-Nov-23	NEL	4	3.6	AUTUMN	32166	3RS ET	Р
16-Nov-23	NEL	2	6.91	AUTUMN	32166	3RS ET	Р
16-Nov-23	NEL	3	26.11	AUTUMN	32166	3RS ET	Р
16-Nov-23	NEL	2	2.96	AUTUMN	32166	3RS ET	S
16-Nov-23	NEL	3	7.02	AUTUMN	32166	3RS ET	S
20-Nov-23	SWL	2	36.96	AUTUMN	32166	3RS ET	Ρ
20-Nov-23	SWL	3	15.97	AUTUMN	32166	3RS ET	Ρ
20-Nov-23	SWL	2	13.26	AUTUMN	32166	3RS ET	S
20-Nov-23	SWL	3	3.3	AUTUMN	32166	3RS ET	S
04-Dec-23	NWL	2	26.3	WINTER	32166	3RS ET	Р
04-Dec-23	NWL	3	37.6	WINTER	32166	3RS ET	Р
04-Dec-23	NWL	2	6.3	WINTER	32166	3RS ET	S
04-Dec-23	NWL	3	4.9	WINTER	32166	3RS ET	S
11-Dec-23	SWL	1	4.81	WINTER	32166	3RS ET	Р
11-Dec-23	SWL	2	48.72	WINTER	32166	3RS ET	Р
11-Dec-23	SWL	2	15.11	WINTER	32166	3RS ET	S
13-Dec-23	DB	2	7.64	WINTER	32166	3RS ET	Р
13-Dec-23	DB	2	3.66	WINTER	32166	3RS ET	S
13-Dec-23	NEL	3	36.57	WINTER	32166	3RS ET	Р
13-Dec-23	NEL	3	10.23	WINTER	32166	3RS ET	S
14-Dec-23	NWL	2	54	WINTER	32166	3RS ET	Р
14-Dec-23	NWL	3	9.8	WINTER	32166	3RS ET	Р
14-Dec-23	NWL	2	9.6	WINTER	32166	3RS ET	S
14-Dec-23	NWL	3	1.4	WINTER	32166	3RS ET	S
18-Dec-23	DB	3	7.42	WINTER	32166	3RS ET	Р
18-Dec-23	DB	3	3.98	WINTER	32166	3RS ET	S
18-Dec-23	NEL	2	29.453	WINTER	32166	3RS ET	P
18-Dec-23	NEL	3	7.597	WINTER	32166	3RS ET	Р
18-Dec-23	NEL	2	5.64	WINTER	32166	3RS ET	S
18-Dec-23	NEL	3	4.2	WINTER	32166	3RS ET	S
19-Dec-23	AW	3	4.89	WINTER	32166	3RS ET	Р
19-Dec-23	WL	3	8.79	WINTER	32166	3RS ET	Р

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19-Dec-23	WL	4	3.8	WINTER	32166	3RS ET	Р
19-Dec-23	WL	5	6.6	WINTER	32166	3RS ET	Р
19-Dec-23	WL	3	4.71	WINTER	32166	3RS ET	S
19-Dec-23	WL	4	1.8	WINTER	32166	3RS ET	S
19-Dec-23	WL	5	3	WINTER	32166	3RS ET	S
27-Dec-23	AW	2	4.74	WINTER	32166	3RS ET	Р
27-Dec-23	WL	2	11.071	WINTER	32166	3RS ET	Р
27-Dec-23	WL	3	3.212	WINTER	32166	3RS ET	Р
27-Dec-23	WL	2	9.414	WINTER	32166	3RS ET	S
27-Dec-23	WL	3	1.09	WINTER	32166	3RS ET	S
28-Dec-23	SWL	2	33.05	WINTER	32166	3RS ET	Р
28-Dec-23	SWL	3	20.81	WINTER	32166	3RS ET	Р
28-Dec-23	SWL	2	11.57	WINTER	32166	3RS ET	S
28-Dec-23	SWL	3	3.49	WINTER	32166	3RS ET	S

# **CWD Small Vessel Line-transect Survey**

# **Sighting Data**

DATE	STG#	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
06-Jan-23	1	1048	CWD	5	NWL	3	98	ON	3RS ET	22.2845	113.8776	WINTER	NONE	Р
06-Jan-23	2	1303	CWD	3	NWL	3	399	ON	3RS ET	22.3944	113.8973	WINTER	PAIR TRAWLER	Р
09-Jan-23	1	1013	CWD	2	NWL	2	51	ON	3RS ET	22.3058	113.8700	WINTER	NONE	Р
09-Jan-23	2	1056	CWD	2	NWL	2	19	ON	3RS ET	22.2958	113.8777	WINTER	NONE	Р
09-Jan-23	3	1144	CWD	4	NWL	3	351	ON	3RS ET	22.3661	113.8778	WINTER	NONE	Р
13-Jan-23	1	1106	FP	2	SWL	2	7	ON	3RS ET	22.1527	113.9276	WINTER	NONE	Р
13-Jan-23	2	1220	FP	1	SWL	2	64	ON	3RS ET	22.1579	113.8989	WINTER	NONE	S
13-Jan-23	3	1228	CWD	1	SWL	2	57	ON	3RS ET	22.1703	113.9076	WINTER	NONE	Р
13-Jan-23	4	1327	FP	2	SWL	2	60	ON	3RS ET	22.1494	113.8887	WINTER	NONE	S
13-Jan-23	5	1516	CWD	2	SWL	2	56	ON	3RS ET	22.1940	113.8498	WINTER	NONE	Р
07-Feb-23	1	1109	FP	3	SWL	2	143	ON	3RS ET	22.1557	113.9258	WINTER	NONE	Р
07-Feb-23	2	1200	FP	3	SWL	2	76	ON	3RS ET	22.1520	113.9175	WINTER	NONE	Р
07-Feb-23	3	1209	FP	7	SWL	2	47	ON	3RS ET	22.1418	113.9107	WINTER	NONE	S
07-Feb-23	4	1232	FP	2	SWL	2	64	ON	3RS ET	22.1770	113.9058	WINTER	NONE	Р
07-Feb-23	5	1258	FP	6	SWL	2	39	ON	3RS ET	22.1976	113.8973	WINTER	NONE	Р
07-Feb-23	6	1307	FP	1	SWL	2	380	ON	3RS ET	22.1823	113.8972	WINTER	NONE	Р
13-Feb-23	1	1034	FP	1	SWL	2	14	ON	3RS ET	22.1841	113.9358	WINTER	NONE	Р
13-Feb-23	2	1036	FP	5	SWL	2	10	ON	3RS ET	22.1815	113.9359	WINTER	NONE	Р
13-Feb-23	3	1254	FP	2	SWL	2	74	ON	3RS ET	22.1731	113.8965	WINTER	NONE	Р
13-Feb-23	4	1321	FP	1	SWL	2	109	ON	3RS ET	22.1754	113.8879	WINTER	NONE	Р
13-Feb-23	5	1335	FP	2	SWL	2	60	ON	3RS ET	22.2072	113.8878	WINTER	NONE	Р
13-Feb-23	6	1417	FP	2	SWL	2	17	ON	3RS ET	22.1751	113.8690	WINTER	NONE	Р
16-Feb-23	1	1036	CWD	16	NWL	3	38	ON	3RS ET	22.2750	113.8697	WINTER	NONE	Р
16-Feb-23	2	1151	CWD	2	NWL	3	56	ON	3RS ET	22.3604	113.8777	WINTER	NONE	Р
16-Feb-23	3	1202	CWD	7	NWL	3	87	ON	3RS ET	22.3668	113.8776	WINTER	NONE	Р
16-Feb-23	4	1325	CWD	2	NWL	3	129	ON	3RS ET	22.3496	113.8975	WINTER	NONE	Р
20-Feb-23	1	1118	CWD	2	NWL	3	120	ON	3RS ET	22.3748	113.8775	WINTER	NONE	Р
21-Feb-23	1	1020	CWD	4	WL	3	52	ON	3RS ET	22.2804	113.8611	WINTER	NONE	Р
21-Feb-23	2	1027	CWD	1	WL	3	109	ON	3RS ET	22.2780	113.8581	WINTER	NONE	Р
21-Feb-23	3	1036	CWD	3	WL	3	493	ON	3RS ET	22.2724	113.8478	WINTER	NONE	S
21-Feb-23	4	1126	CWD	2	WL	2	37	ON	3RS ET	22.2319	113.8284	WINTER	NONE	Р

DATE	STG#	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
21-Feb-23	5	1206	CWD	1	WL	3	97	ON	3RS ET	22.2055	113.8383	WINTER	NONE	Р
22-Feb-23	1	0941	CWD	3	AW	3	42	ON	3RS ET	22.2947	113.8799	WINTER	NONE	Р
22-Feb-23	2	1031	CWD	3	WL	3	284	ON	3RS ET	22.2693	113.8469	WINTER	NONE	Р
22-Feb-23	3	1050	CWD	3	WL	3	48	ON	3RS ET	22.2599	113.8395	WINTER	NONE	Р
22-Feb-23	4	1125	CWD	2	WL	3	70	ON	3RS ET	22.2443	113.8493	WINTER	NONE	S
22-Feb-23	5	1137	CWD	1	WL	3	217	ON	3RS ET	22.2420	113.8461	WINTER	NONE	Р
22-Feb-23	6	1150	CWD	4	WL	3	313	ON	3RS ET	22.2415	113.8352	WINTER	NONE	Р
22-Feb-23	7	1206	CWD	7	WL	3	270	ON	3RS ET	22.2316	113.8277	WINTER	NONE	Р
22-Feb-23	8	1221	CWD	2	WL	3	29	ON	3RS ET	22.2236	113.8368	WINTER	PURSE SEINER	S
22-Feb-23	9	1236	CWD	3	WL	3	361	ON	3RS ET	22.2230	113.8298	WINTER	NONE	Р
22-Feb-23	10	1308	CWD	4	WL	3	55	ON	3RS ET	22.2054	113.8381	WINTER	NONE	Р
01-Mar-23	1	1116	CWD	1	AW	2	384	ON	3RS ET	22.3020	113.8820	SPRING	NONE	Р
01-Mar-23	2	1202	CWD	7	WL	2	79	ON	3RS ET	22.2721	113.8461	SPRING	NONE	Р
01-Mar-23	3	1258	CWD	2	WL	2	852	ON	3RS ET	22.2537	113.8347	SPRING	NONE	S
01-Mar-23	4	1315	CWD	6	WL	2	569	ON	3RS ET	22.2422	113.8338	SPRING	NONE	Р
01-Mar-23	5	1343	CWD	7	WL	2	84	ON	3RS ET	22.2280	113.8379	SPRING	NONE	S
01-Mar-23	6	1420	CWD	7	WL	2	249	ON	3RS ET	22.2056	113.8281	SPRING	NONE	Р
01-Mar-23	7	1447	CWD	3	WL	2	345	ON	3RS ET	22.1962	113.8339	SPRING	NONE	Р
02-Mar-23	1	1039	CWD	6	WL	2	116	ON	3RS ET	22.2294	113.8379	SPRING	NONE	S
02-Mar-23	2	1051	CWD	14	WL	2	296	ON	3RS ET	22.2234	113.8338	SPRING	NONE	Р
02-Mar-23	3	1153	CWD	7	WL	3	156	ON	3RS ET	22.1960	113.8395	SPRING	NONE	Р
03-Mar-23	1	1050	CWD	5	NWL	3	167	ON	3RS ET	22.2804	113.8782	SPRING	NONE	Р
06-Mar-23	1	1307	CWD	3	DB	2	350	ON	3RS ET	22.4274	113.8774	SPRING	NONE	S
07-Mar-23	1	1034	CWD	1	NWL	3	597	ON	3RS ET	22.2792	113.8700	SPRING	NONE	Р
07-Mar-23	2	1140	CWD	1	NWL	2	122	ON	3RS ET	22.4001	113.8778	SPRING	NONE	Р
09-Mar-23	1	1036	CWD	1	SWL	2	701	ON	3RS ET	22.2231	113.9365	SPRING	NONE	Р
09-Mar-23	2	1112	FP	1	SWL	2	138	ON	3RS ET	22.1655	113.9358	SPRING	NONE	Р
09-Mar-23	3	1116	FP	1	SWL	2	21	ON	3RS ET	22.1619	113.9356	SPRING	NONE	Р
09-Mar-23	4	1121	FP	1	SWL	2	8	ON	3RS ET	22.1544	113.9359	SPRING	NONE	Р
09-Mar-23	5	1124	FP	1	SWL	2	6	ON	3RS ET	22.1526	113.9363	SPRING	NONE	Р
09-Mar-23	6	1232	FP	2	SWL	2	252	ON	3RS ET	22.1416	113.9120	SPRING	NONE	S
09-Mar-23	7	1259	FP	1	SWL	2	122	ON	3RS ET	22.1798	113.9040	SPRING	NONE	S
09-Mar-23	8	1345	FP	1	SWL	2	74	ON	3RS ET	22.1521	113.8976	SPRING	NONE	Р

DATE	STG#	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
09-Mar-23	9	1513	CWD	5	SWL	2	389	ON	3RS ET	22.1930	113.8593	SPRING	NONE	Р
10-Mar-23	1	1416	FP	2	SWL	2	29	ON	3RS ET	22.1643	113.8681	SPRING	NONE	Р
10-Mar-23	2	1438	CWD	2	SWL	3	211	ON	3RS ET	22.1951	113.8583	SPRING	NONE	Р
12-Apr-23	1	1042	FP	5	SWL	2	366	ON	3RS ET	22.1836	113.9358	SPRING	NONE	Р
12-Apr-23	2	1047	FP	1	SWL	2	20	ON	3RS ET	22.1789	113.9355	SPRING	NONE	Р
12-Apr-23	3	1050	FP	2	SWL	1	205	ON	3RS ET	22.1732	113.9358	SPRING	NONE	Р
12-Apr-23	4	1055	FP	4	SWL	1	95	ON	3RS ET	22.1660	113.9362	SPRING	NONE	Р
12-Apr-23	5	1100	FP	4	SWL	1	47	ON	3RS ET	22.1591	113.9364	SPRING	NONE	Р
12-Apr-23	6	1103	FP	1	SWL	1	78	ON	3RS ET	22.1554	113.9362	SPRING	NONE	Р
12-Apr-23	7	1109	FP	2	SWL	1	149	ON	3RS ET	22.1469	113.9315	SPRING	NONE	S
12-Apr-23	8	1119	FP	1	SWL	1	22	ON	3RS ET	22.1586	113.9276	SPRING	NONE	Р
12-Apr-23	9	1124	FP	4	SWL	1	54	ON	3RS ET	22.1661	113.9276	SPRING	NONE	Р
12-Apr-23	10	1218	FP	1	SWL	1	157	ON	3RS ET	22.1444	113.9080	SPRING	NONE	Р
12-Apr-23	11	1226	FP	4	SWL	1	205	ON	3RS ET	22.1563	113.9008	SPRING	NONE	S
12-Apr-23	12	1311	FP	3	SWL	1	53	ON	3RS ET	22.1824	113.8971	SPRING	NONE	Р
13-Apr-23	1	1057	CWD	10	WL	3	623	ON	3RS ET	22.2416	113.8409	SPRING	PURSE SEINER	Р
13-Apr-23	2	1127	CWD	9	WL	2	11	ON	3RS ET	22.2324	113.8294	SPRING	PURSE SEINER	Р
13-Apr-23	3	1146	CWD	2	WL	2	268	ON	3RS ET	22.2237	113.8286	SPRING	NONE	Р
13-Apr-23	4	1156	CWD	3	WL	3	11	ON	3RS ET	22.2188	113.8195	SPRING	NONE	S
13-Apr-23	5	1213	CWD	8	WL	3	355	ON	3RS ET	22.2148	113.8322	SPRING	NONE	Р
14-Apr-23	1	1400	FP	1	SWL	2	9	ON	3RS ET	22.1593	113.8730	SPRING	NONE	S
18-Apr-23	1	1049	CWD	7	WL	3	26	ON	3RS ET	22.2459	113.8496	SPRING	NONE	S
18-Apr-23	2	1148	CWD	3	WL	3	296	ON	3RS ET	22.2141	113.8340	SPRING	NONE	Р
18-Apr-23	3	1226	CWD	4	WL	3	282	ON	3RS ET	22.1962	113.8412	SPRING	NONE	Р
04-May-23	1	1054	CWD	1	WL	2	409	ON	3RS ET	22.2451	113.8491	SPRING	NONE	S
04-May-23	2	1117	CWD	7	WL	3	130	ON	3RS ET	22.2324	113.8242	SPRING	NONE	S
04-May-23	3	1138	CWD	2	WL	3	179	ON	3RS ET	22.2321	113.8278	SPRING	NONE	Р
04-May-23	4	1158	CMD	3	WL	3	335	ON	3RS ET	22.2241	113.8307	SPRING	NONE	Р
04-May-23	5	1219	CWD	3	WL	3	163	ON	3RS ET	22.2143	113.8218	SPRING	NONE	Р
04-May-23	6	1251	CWD	4	WL	3	212	ON	3RS ET	22.1968	113.8287	SPRING	NONE	S
04-May-23	7	1302	CWD	5	WL	3	379	ON	3RS ET	22.1962	113.8402	SPRING	NONE	Р
15-May-23	1	1115	FP	2	SWL	2	44	ON	3RS ET	22.1744	113.9284	SPRING	NONE	Р
18-May-23	1	1402	CWD	2	SWL	2	299	ON	3RS ET	22.1987	113.8785	SPRING	PURSE SEINER	Р

DATE	STG#	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
18-May-23	2	1512	CWD	1	SWL	2	366	ON	3RS ET	22.1993	113.8596	SPRING	NONE	S
23-May-23	1	1116	CWD	4	WL	3	162	ON	3RS ET	22.2227	113.8306	SPRING	NONE	Р
23-May-23	2	1145	CWD	1	WL	3	59	ON	3RS ET	22.2144	113.8338	SPRING	NONE	Р
23-May-23	3	1216	CWD	3	WL	3	31	ON	3RS ET	22.1960	113.8410	SPRING	NONE	Р
23-May-23	4	1231	CWD	5	WL	3	200	ON	3RS ET	22.1935	113.8425	SPRING	NONE	S
01-Jun-23	1	1318	FP	4	SWL	2	385	ON	3RS ET	22.1541	113.8882	SUMMER	NONE	Р
01-Jun-23	2	1505	CWD	3	SWL	2	79	ON	3RS ET	22.1936	113.8492	SUMMER	NONE	Р
02-Jun-23	1	1054	CWD	3	WL	2	591	ON	3RS ET	22.2417	113.8469	SUMMER	NONE	Р
02-Jun-23	2	1112	CWD	1	WL	2	698	ON	3RS ET	22.2410	113.8323	SUMMER	NONE	Р
02-Jun-23	3	1130	CWD	9	WL	2	30	ON	3RS ET	22.2327	113.8374	SUMMER	NONE	Р
02-Jun-23	4	1153	CWD	1	WL	2	336	ON	3RS ET	22.2247	113.8372	SUMMER	NONE	S
02-Jun-23	5	1206	CWD	4	WL	2	100	ON	3RS ET	22.2237	113.8276	SUMMER	NONE	Р
02-Jun-23	6	1217	CWD	4	WL	2	161	ON	3RS ET	22.2184	113.8204	SUMMER	NONE	S
02-Jun-23	7	1250	CWD	1	WL	2	1085	ON	3RS ET	22.2053	113.8213	SUMMER	NONE	Р
02-Jun-23	8	1259	CWD	5	WL	2	153	ON	3RS ET	22.1964	113.8373	SUMMER	NONE	Р
02-Jun-23	9	1332	CWD	2	SWL	2	N/A	OFF	3RS ET	22.1932	113.8510	SUMMER	PURSE SEINER	N/A
08-Jun-23	1	1446	CWD	1	SWL	3	223	ON	3RS ET	22.1958	113.8591	SUMMER	NONE	Р
08-Jun-23	2	1457	CWD	4	SWL	3	321	ON	3RS ET	22.1892	113.8596	SUMMER	NONE	Р
09-Jun-23	1	1058	CWD	2	WL	1	191	ON	3RS ET	22.2579	113.8376	SUMMER	NONE	S
09-Jun-23	2	1137	CWD	3	WL	2	105	ON	3RS ET	22.2325	113.8282	SUMMER	PURSE SEINER	Р
09-Jun-23	3	1154	CWD	1	WL	2	580	ON	3RS ET	22.2291	113.8379	SUMMER	NONE	S
09-Jun-23	4	1203	CWD	3	WL	2	1060	ON	3RS ET	22.2243	113.8275	SUMMER	NONE	Р
09-Jun-23	5	1253	CWD	6	WL	2	280	ON	3RS ET	22.2062	113.8240	SUMMER	NONE	Р
09-Jun-23	6	1315	CWD	4	WL	2	100	ON	3RS ET	22.1981	113.8271	SUMMER	NONE	S
09-Jun-23	7	1328	CWD	1	WL	2	22	ON	3RS ET	22.1879	113.8407	SUMMER	NONE	Р
13-Jun-23	1	1128	CWD	1	NWL	2	137	ON	3RS ET	22.3690	113.8779	SUMMER	NONE	Р
07-Jul-23	1	1101	CWD	1	WL	3	268	ON	3RS ET	22.241465	113.836801	SUMMER	NONE	Р
07-Jul-23	2	1200	CWD	1	WL	3	91	ON	3RS ET	22.196109	113.832519	SUMMER	NONE	Р
07-Jul-23	3	1215	CWD	15	WL	3	134	ON	3RS ET	22.187467	113.840116	SUMMER	NONE	Р
11-Jul-23	1	1056	CWD	3	WL	3	275	ON	3RS ET	22.241645	113.835777	SUMMER	NONE	Р
11-Jul-23	2	1133	CWD	4	WL	3	35	ON	3RS ET	22.223005	113.824736	SUMMER	NONE	Р
11-Jul-23	3	1142	CWD	5	WL	3	6	ON	3RS ET	22.216027	113.819765	SUMMER	NONE	S
11-Jul-23	4	1214	CWD	3	WL	3	390	ON	3RS ET	22.205179	113.831298	SUMMER	NONE	Р

DATE	STG#	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
11-Jul-23	5	1219	CWD	3	WL	3	170	ON	3RS ET	22.197487	113.827743	SUMMER	NONE	S
11-Jul-23	6	1248	CWD	1	WL	3	26	ON	3RS ET	22.196189	113.834526	SUMMER	NONE	Р
11-Jul-23	7	1307	CWD	2	WL	3	339	ON	3RS ET	22.188088	113.841400	SUMMER	NONE	S
12-Jul-23	1	1047	FP	3	SWL	2	46	ON	3RS ET	22.1590	113.9357	SUMMER	NONE	Р
12-Jul-23	2	1123	FP	2	SWL	2	39	ON	3RS ET	22.2022	113.9274	SUMMER	NONE	Р
12-Jul-23	3	1145	FP	1	SWL	2	211	ON	3RS ET	22.1711	113.9188	SUMMER	NONE	Р
12-Jul-23	4	1350	CWD	1	SWL	2	145	ON	3RS ET	22.189450	113.876910	SUMMER	NONE	Р
13-Jul-23	1	1054	FP	1	SWL	2	34	ON	3RS ET	22.1510	113.9363	SUMMER	NONE	Р
13-Jul-23	2	1227	CWD	1	SWL	2	61	ON	3RS ET	22.189361	113.906986	SUMMER	NONE	S
02-Aug-23	1	1023	CWD	1	SWL	2	477	ON	3RS ET	22.208496	113.936182	SUMMER	NONE	Р
02-Aug-23	2	1202	FP	11	SWL	2	94	ON	3RS ET	22.1441	113.91764	SUMMER	NONE	Р
02-Aug-23	3	1346	CWD	1	SWL	3	102	ON	3RS ET	22.199993	113.888076	SUMMER	NONE	Р
02-Aug-23	4	1416	CWD	4	SWL	3	171	ON	3RS ET	22.188207	113.878646	SUMMER	NONE	Р
02-Aug-23	5	1444	CWD	1	SWL	3	247	ON	3RS ET	22.162357	113.868907	SUMMER	NONE	Р
02-Aug-23	6	1458	CWD	8	SWL	3	523	ON	3RS ET	22.168728	113.868811	SUMMER	NONE	Р
02-Aug-23	7	1529	CWD	1	SWL	2	294	ON	3RS ET	22.198243	113.868397	SUMMER	PURSE SEINER	Р
02-Aug-23	8	1549	CWD	3	SWL	2	225	ON	3RS ET	22.193412	113.858655	SUMMER	NONE	Р
02-Aug-23	9	1605	CWD	2	SWL	2	202	ON	3RS ET	22.184851	113.859123	SUMMER	NONE	Р
02-Aug-23	10	1630	CWD	8	SWL	2	272	ON	3RS ET	22.190554	113.849472	SUMMER	NONE	Р
03-Aug-23	1	1152	FP	2	SWL	2	157	ON	3RS ET	22.1564	113.91727	SUMMER	NONE	Р
03-Aug-23	2	1310	FP	3	SWL	2	208	ON	3RS ET	22.1495	113.89398	SUMMER	NONE	S
03-Aug-23	3	1352	CWD	4	SWL	2	346	ON	3RS ET	22.194928	113.878481	SUMMER	NONE	Р
03-Aug-23	4	1523	CWD	5	SWL	3	343	ON	3RS ET	22.188937	113.850768	SUMMER	PURSE SEINER	Р
08-Aug-23	1	1111	CWD	1	WL	2	108	ON	3RS ET	22.223379	113.830134	SUMMER	NONE	Р
08-Aug-23	2	1131	CWD	2	WL	3	53	ON	3RS ET	22.214665	113.828900	SUMMER	NONE	Р
08-Aug-23	3	1155	CWD	3	WL	2	473	ON	3RS ET	22.205493	113.824258	SUMMER	NONE	Р
08-Aug-23	4	1213	CWD	3	WL	2	15	ON	3RS ET	22.201743	113.823813	SUMMER	NONE	S
08-Aug-23	5	1226	CWD	4	WL	3	23	ON	3RS ET	22.197417	113.826944	SUMMER	NONE	S
08-Aug-23	6	1256	CWD	6	WL	3	537	ON	3RS ET	22.187618	113.832602	SUMMER	NONE	Р
24-Aug-23	1	1118	CWD	2	WL	3	108	ON	3RS ET	22.217616	113.819630	SUMMER	NONE	S
24-Aug-23	2	1147	CWD	2	WL	3	204	ON	3RS ET	22.205600	113.828620	SUMMER	NONE	Р
13-Sep-23	1	1227	CWD	6	SWL	3	19	ON	3RS ET	22.188770	113.906269	AUTUMN	NONE	Р
18-Sep-23	1	1029	FP	2	SWL	2	365	ON	3RS ET	22.197349	113.93566	AUTUMN	NONE	Р

DATE	STG#	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
18-Sep-23	2	1037	FP	3	SWL	2	55	ON	3RS ET	22.184478	113.93564	AUTUMN	NONE	Р
18-Sep-23	3	1053	FP	6	SWL	2	198	ON	3RS ET	22.153702	113.93678	AUTUMN	NONE	Р
20-Sep-23	1	1030	CWD	2	WL	1	234	ON	3RS ET	22.261023	113.850934	AUTUMN	NONE	Р
20-Sep-23	2	1042	CWD	2	WL	1	265	ON	3RS ET	22.260349	113.842286	AUTUMN	NONE	Р
20-Sep-23	3	1112	CWD	1	WL	1	290	ON	3RS ET	22.241103	113.844249	AUTUMN	NONE	Р
20-Sep-23	4	1124	CWD	1	WL	1	236	ON	3RS ET	22.241593	113.834837	AUTUMN	NONE	Р
21-Sep-23	1	1034	CWD	3	WL	2	138	ON	3RS ET	22.261205	113.846830	AUTUMN	NONE	Р
21-Sep-23	2	1122	CWD	3	WL	2	297	ON	3RS ET	22.223088	113.835249	AUTUMN	NONE	Р
21-Sep-23	3	1156	CWD	6	WL	2	77	ON	3RS ET	22.214777	113.824979	AUTUMN	NONE	Р
21-Sep-23	4	1223	CWD	1	WL	2	163	ON	3RS ET	22.206057	113.829026	AUTUMN	NONE	Р
21-Sep-23	5	1231	CWD	2	WL	2	41	ON	3RS ET	22.205669	113.824873	AUTUMN	NONE	Р
21-Sep-23	6	1247	CWD	1	WL	2	22	ON	3RS ET	22.196451	113.835611	AUTUMN	NONE	Р
21-Sep-23	7	1254	CWD	3	WL	2	913	ON	3RS ET	22.193651	113.842627	AUTUMN	NONE	S
21-Sep-23	8	1319	CWD	1	WL	2	634	ON	3RS ET	22.187905	113.833459	AUTUMN	NONE	Р
13-Oct-23	1	1028	CWD	2	WL	2	243	ON	3RS ET	22.260779	113.853468	AUTUMN	NONE	S
13-Oct-23	2	1043	CWD	2	WL	2	34	ON	3RS ET	22.260956	113.840829	AUTUMN	NONE	Р
13-Oct-23	3	1058	CWD	1	WL	3	91	ON	3RS ET	22.250437	113.841275	AUTUMN	GILLNETTER	Р
13-Oct-23	4	1117	CWD	9	WL	2	126	ON	3RS ET	22.241167	113.841706	AUTUMN	NONE	Р
13-Oct-23	5	1149	CWD	3	WL	2	139	ON	3RS ET	22.241672	113.829845	AUTUMN	NONE	Р
20-Oct-23	1	1149	CWD	2	WL	2	15	ON	3RS ET	22.196308	113.834539	AUTUMN	NONE	Р
27-Oct-23	1	1202	FP	2	SWL	3	45	ON	3RS ET	22.151171	113.908504	AUTUMN	NONE	Р
27-Oct-23	2	1216	CWD	1	SWL	2	128	ON	3RS ET	22.168029	113.906685	AUTUMN	NONE	S
06-Nov-23	1	1038	FP	6	SWL	2	144	ON	3RS ET	22.179714	113.936292	AUTUMN	NONE	Р
06-Nov-23	2	1041	FP	4	SWL	2	55	ON	3RS ET	22.174271	113.936089	AUTUMN	NONE	Р
06-Nov-23	3	1050	FP	3	SWL	2	442	ON	3RS ET	22.159022	113.936224	AUTUMN	NONE	Р
06-Nov-23	4	1058	FP	1	SWL	2	52	ON	3RS ET	22.145772	113.931080	AUTUMN	NONE	S
06-Nov-23	5	1102	FP	5	SWL	2	113	ON	3RS ET	22.147034	113.927694	AUTUMN	NONE	Р
06-Nov-23	6	1114	FP	2	SWL	2	40	ON	3RS ET	22.168425	113.927825	AUTUMN	NONE	Р
06-Nov-23	7	1435	CWD	5	SWL	2	160	ON	3RS ET	22.199740	113.860026	AUTUMN	NONE	S
06-Nov-23	8	1509	CWD	15	SWL	3	398	ON	3RS ET	22.185090	113.849075	AUTUMN	NONE	Р
13-Nov-23	1	1121	CWD	8	WL	3	32	ON	3RS ET	22.223555	113.836856	AUTUMN	NONE	S
13-Nov-23	2	1204	CWD	5	WL	3	4	ON	3RS ET	22.214224	113.831569	AUTUMN	NONE	Р
15-Nov-23	1	0939	CWD	3	AW	2	463	ON	3RS ET	22.293376	113.877038	AUTUMN	NONE	Р

DATE	STG#	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
15-Nov-23	2	1022	CWD	1	WL	3	247	ON	3RS ET	22.284568	113.861728	AUTUMN	NONE	Р
15-Nov-23	3	1102	CWD	1	WL	3	208	ON	3RS ET	22.260917	113.845227	AUTUMN	NONE	Р
15-Nov-23	4	1131	CWD	3	WL	3	449	ON	3RS ET	22.242099	113.836970	AUTUMN	NONE	Р
15-Nov-23	5	1205	CWD	3	WL	3	190	ON	3RS ET	22.224754	113.837304	AUTUMN	NONE	S
15-Nov-23	6	1213	CWD	2	WL	3	470	ON	3RS ET	22.223496	113.823713	AUTUMN	NONE	Р
15-Nov-23	7	1220	CWD	2	WL	3	650	ON	3RS ET	22.215539	113.819722	AUTUMN	SHRIMP TRAWLER	S
20-Nov-23	1	1042	FP	2	SWL	3	180	ON	3RS ET	22.173928	113.935982	AUTUMN	NONE	Р
20-Nov-23	2	1104	FP	1	SWL	2	37	ON	3RS ET	22.158240	113.927296	AUTUMN	NONE	Р
20-Nov-23	3	1115	FP	2	SWL	2	233	ON	3RS ET	22.180467	113.928151	AUTUMN	NONE	Р
20-Nov-23	4	1156	FP	2	SWL	2	113	ON	3RS ET	22.146640	113.917842	AUTUMN	NONE	Р
11-Dec-23	1	1243	CWD	1	SWL	2	285	ON	3RS ET	22.202903	113.897445	WINTER	PURSE SEINER	Р
11-Dec-23	2	1339	CWD	2	SWL	2	180	ON	3RS ET	22.195981	113.887741	WINTER	NONE	Р
11-Dec-23	3	1423	CWD	2	SWL	2	274	ON	3RS ET	22.179612	113.878398	WINTER	NONE	Р
11-Dec-23	4	1445	CWD	2	SWL	2	594	ON	3RS ET	22.176185	113.868402	WINTER	NONE	Р
27-Dec-23	1	1004	CWD	1	WL	2	489	ON	3RS ET	22.290284	113.861290	WINTER	NONE	Р
27-Dec-23	2	1033	CWD	2	WL	2	16	ON	3RS ET	22.269684	113.844927	WINTER	NONE	S
27-Dec-23	3	1041	CWD	1	WL	2	1	ON	3RS ET	22.269091	113.852531	WINTER	NONE	Р
27-Dec-23	4	1057	CWD	5	WL	2	413	ON	3RS ET	22.261197	113.852742	WINTER	NONE	Р
27-Dec-23	5	1154	CWD	1	WL	2	72	ON	3RS ET	22.222960	113.833060	WINTER	NONE	Р
27-Dec-23	6	1203	CWD	2	WL	2	26	ON	3RS ET	22.223131	113.828200	WINTER	NONE	Р
27-Dec-23	7	1216	CWD	6	WL	2	420	ON	3RS ET	22.223018	113.824091	WINTER	NONE	Р
27-Dec-23	8	1239	CWD	2	WL	3	99	ON	3RS ET	22.213960	113.823082	WINTER	NONE	Р
27-Dec-23	9	1253	CWD	2	WL	2	631	ON	3RS ET	22.206000	113.838122	WINTER	NONE	Р
27-Dec-23	10	1310	CWD	1	WL	2	12	ON	3RS ET	22.195912	113.830588	WINTER	NONE	Р
28-Dec-23	1	1313	FP	1	SWL	2	29	ON	3RS ET	22.151581	113.889482	WINTER	NONE	S
28-23	2	1348	CWD	1	SWL	2	43	ON	3RS ET	22.204239	113.878238	WINTER	NONE	Р

Abbreviations: STG# = Sighting Number; GP SZ = Dolphin Group Size; BEAU = Beaufort Sea State; PSD = Perpendicular Distance (in metres); N/A = Not Applicable; DEC LAT = Latitude (WGS84 in Decimal), DEC LON = Longitude (WGS84 in Decimal); BOAT ASSOC. = Fishing Boat Association

## **CWD Small Vessel Line-transect Survey**

### Photo Identification - Residency Pattern of Selected Dolphin Individuals

ID.	B 1 1	2045	0040	0047	0040	0040		20	20			20	21			20	22			20	23		<b>"0T0</b>
ID	Residency	2015	2016	2017	2018	2019	SP	SU	AU	WI	#STG												
NLMM001	SR		1	1	3	4						1		1						1	2	1	15
NLMM002	SR		8	2	4	1																	15
NLMM004	SR		4	7	7	6				2													26
NLMM006	SR		10	1	5	4																	20
NLMM009	SR		3	6	5	2		2				4		3		1						2	28
NLMM013	SR		10	2	7	5		1				3	1				1	1		1		1	33
NLMM015	SR		1	3	5	2		2	1			7				2	1					1	25
NLMM016	SR		1	5	2	6								1		1		1	2		1	1	21
NLMM019	SR		4	7	2	6		1															20
NLMM020	SR		2	7	2	4		1				1		1					2	1		1	22
NLMM023	SR		2	5	6	1			2			1		3			1				2		23
NLMM027	SR		2	3		2		1					1	1		1	1		2	1		2	17
NLMM052	SR			3	4	1		2						3	1							2	16
NLMM063	SR				9	6		3				2		1		1		1		1	1		25
SLMM002	YR	1	6	1	3	5	4		1						3	4	3		1	2	1	2	37
SLMM003	YR	1	3	1	9	8	3	2	4	7	2	3	4	1	4	1			4	2	3	2	64
SLMM007	YR	1	4	3	4	5	2	2	2	3	1		3	2	1		1	5	3	2	1	1	46
SLMM010	YR	1	9	5	6	5	1	2	5	1	2	4	2	1	3			1	3	4	1	1	57
SLMM011	SV		7	6		3	2																18
SLMM012	SR	1	3	2	4	7	2	1	3	3		3	1	4	5	2		1					42
SLMM014	YR		8	11	7	4	4	4	1	3	2	2	3	6		5	2		4	1	1	2	70
SLMM022	SR		7	3	2	5			1	2			1	1						3	1		26
SLMM023	YR		2	7	2	1	3		3	2		1	1	1		1	3	1	3	2	1	1	35

		2245	0040	2045	2010	2242		20	20			20	21			20	22			20	23		<b>"07-0</b>
ID	Residency	2015	2016	2017	2018	2019	SP	SU	AU	WI	#STG												
SLMM025	SR		1	1	1	3	1	4	2				1	2	4	1	1		3			1	26
SLMM027	SR		1	3	5	1		1		1		1	1	1	1	1			6	1			24
SLMM028	SR		5	5	6	4	2	2															24
SLMM030	SR		4	6	3	2	2				1		1	1				1				1	22
SLMM031	SR		4	5	2	2	4		1	2	1		1	3			1	1	3			5	35
SLMM034	SR		3	2	4	3	5				1	1				1			1		2	2	25
SLMM035	SR		1		1	1				2				2		1	2	2	3			3	18
SLMM037	YR		3	4	2	5	2	1	3	6	4	4	3	4	2	5	3	2	5	3	1	2	64
SLMM044	YR		2		4	1	2								3	1	2	4	4	3	2	2	30
SLMM049	SR		2	3	3	7	1	4	2	1	1	1	1	1		1	3	1	5	1	2		40
SLMM052	YR	1	1	7	5	8	3	2	2	2	1		1	1	3	1	1	1	1	6	1		48
SLMM058	SR			1	4	2	1			2			1	3			2		3			3	22
SLMM060	SR			1	3	2		2				1		3	2	2	1		1	1	2		21
SLMM073	SR								1		1		2	2				4	2	2		1	15
WLMM001	YR	1	1	8	11	5	1	2		4		2	1	5	3		1	4	2	3	1	1	56
WLMM003	SR	1	1	3	2	2		1		3			1			3		3	1		3		24
WLMM004	SR	1		3	5	4		1		1	2		1			1				1			20
WLMM006	SR	1	1	4	6	3	2			1				2									20
WLMM007	YR	1	4	6	4	6	3	1	4	1	2		3			1	2		3	3	3	1	48
WLMM008	SR	1	1	6	1	3		2	1					1									16
WLMM009	SR	1	1	4	5	1	1	2		1		1											17
WLMM018	SR		3	3	2	1	1	1	1	1	1					1	2		1	1			19
WLMM019	SR		1	3	2	2		1				2	1			2		1				1	16
WLMM027	SR		9	6	7	5	2				1							2	1				33

		2245	2212	224=	2242	2212		20	20			20	21			20	22			20	23		<b>"27.0</b>
ID	Residency	2015	2016	2017	2018	2019	SP	SU	AU	WI	#STG												
WLMM028	SR		4	2	6	1	2	1	1	3	1	2		2				2	1	3		1	32
WLMM029	SR		3	2	6	4	2	1		1	1	1		2		1	1	2	1			1	29
WLMM030	SR		4	3	1	2		3				1		1						2			17
WLMM043	YR		3	6	6	8		3				4	3	2	2		1		2	1	2	2	45
WLMM054	SR		3	4	6	7								1									21
WLMM056	YR		1	3	4	7	1		2	2			1	3	5	3	1		6	1	3	1	44
WLMM060	SR		1	4	7	2	1	1	2														18
WLMM063	SR		1	3	5	4		1		1	2	1	1		1	2		1	2			1	26
WLMM065	SR			5	6	4			1	1	1	1	1	1				3	1		2	1	28
WLMM067	SR			2	1	6						1	1	1	2	3		2	2	1		1	23
WLMM071	SR			6	9	3		1	2	1			2	4	1	1	1			2	1	1	35
WLMM073	SR			2	3	2	2	2	3			1	2		2			1	3	1			24
WLMM078	SR			3	6	6																	15
WLMM079	YR			5	5	10		3	5	1	1	1	4	1	3	2		1	3	3	1	1	50
WLMM109	SR				4	1		2		1					2	1	1	1	1		1	1	16
WLMM114	SR				6	2	4	2	3	3	1	3	2	3	3		2	2	4	1		1	42
WLMM131	SR				1	6	2	4	1	1	2	2	2	3		3	3	1					31

<sup>\*</sup> Residency: YR = Year-round Resident; SR = Seasonal Resident; SV = Seasonal Visitor Seasons: AU = Autumn; SP = Spring; SU = Summer; WI = Winter, #STG = Total number of sightings

## **CWD Land-based Theodolite Tracking**

## **CWD Groups by Survey Date**

Date	Station	Start Time	End Time	Duration	Beaufort Range	Visibility Range	No. of Focal Follow Dolphin Groups Tracked	Group Size Range
17/Jan/23	Sha Chau	10:42	16:42	6:00	2	3	0	-
19/Jan/23	Lung Kwu Chau	08:42	14:42	6:00	2-3	3	2	3-4
15/Feb/23	Sha Chau	10:37	16:37	6:00	2-3	3	0	-
23/Feb/23	Lung Kwu Chau	08:55	14:55	6:00	2	2	0	-
3/Mar/23	Lung Kwu Chau	9:23	15:23	6:00	2-3	2	0	-
24/Mar/23	Sha Chau	10:38	16:38	6:00	2	1	0	-
24/Apr/23	Lung Kwu Chau	8:51	14:51	6:00	2-3	2-3	0	-
25/Apr/23	Sha Chau	10:45	16:45	6:00	3	4	0	-
24/May/23	Lung Kwu Chau	09:24	15:24	6:00	3	3	0	-
25/May/23	Sha Chau	10:48	16:48	6:00	3	1	0	-
19/Jun/23	Lung Kwu Chau	08:54	14:54	6:00	2	1	1	1
26/Jun/23	Sha Chau	10:40	16:40	6:00	2	1	0	-
20/Jul/23	Lung Kwu Chau	08:42	14:42	6:00	2	1	1	1
21/Jul/23	Sha Chau	11:07	17:07	6:00	2-3	1	0	-
15/Aug/23	Lung Kwu Chau	8:49	14:49	6:00	2	1	1	1
23/Aug/23	Sha Chau	10:39	16:39	6:00	2	1	0	-
21/Sep/23	Lung Kwu Chau	8:59	14:59	6:00	1	1	0	-
26/Sep/23	Sha Chau	10:53	16:53	6:00	2-3	1	0	-
5/Oct/23	Lung Kwu Chau	08:54	14:54	6:00	3	1	0	-
11/Oct/23	Sha Chau	10:44	16:44	6:00	2	1	0	-
13/Nov/23	Lung Kwu Chau	8:55	14:55	6:00	3	2	0	-
16/Nov/23	Sha Chau	10:42	16:42	6:00	3	2-3	0	-
15/Dec/23	Lung Kwu Chau	8:49	14:49	6:00	2	2	2	1-2
27/Dec/23	Sha Chau	10:37	16:37	6:00	3	2-3	0	-

Visibility Range: 1=Excellent, 2=Good, 3=Fair, 4=Poor

### **Annex 1** List of References (Tom, Bernd and Sarah to update)

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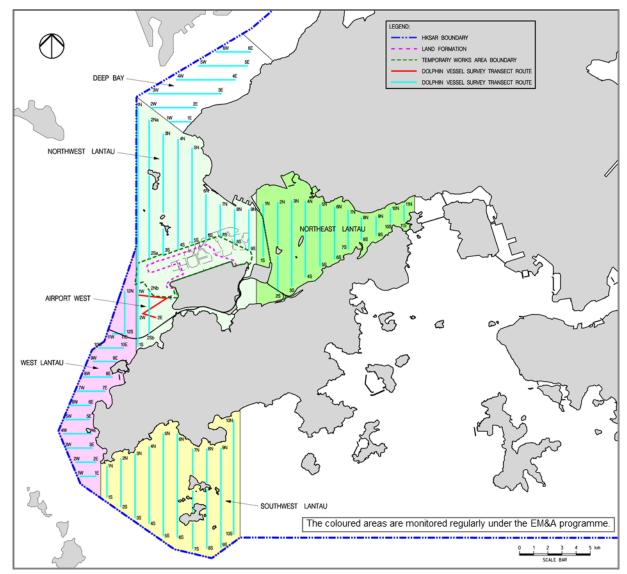
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Reference: Additional Vessel Survey for CWD Monitoring in Deep Bay Area

The additional survey in Deep Bay (DB) was conducted on a voluntary basis at the same frequency of two surveys per month.

All DB data were for reference and used only for density and abundance estimation.

(Note: The transect route in the DB survey area could not be fully travelled due to obstruction by the existing oyster culture rafts.)

# Appendix G. Summary of Environmental Complaints and Cumulative Statistics on Exceedances, Notification of Summons, and Prosecution

## **Summary of Environmental Complaints**

Date of Complaint Received	Details	Analysis / Remedial Actions	Status
19 December 2022	In the previous reporting period of 2022, a complaint regarding dust nuisance was received.	ET requested the related contractors to provide information regarding the complaint. The relevant contractor informed there was an alarm fault which led to the incident. The system was rectified by the contractor and no observation regarding dust nuisance was recorded during the subsequent joint site inspection and regular site inspections. All contractors were reminded to properly implement dust mitigation measures in their works sites in accordance with the implementation schedule in the Updated EM&A Manual. Hence, the case was considered closed.	Closed
9 June 2023	A complaint regarding noise nuisance was received.	ET requested the relevant contractor to provide information related to the complaint. The bridge demolition works was carried out on 9 June 2023. No observation regarding noise nuisance was recorded during regular site inspections. The relevant contractor was reminded to review and continuously implement their enhanced noise mitigation measures. Hence, the case was considered closed.	Closed
4 October 2023	A complaint regarding dust nuisance at 3RS reclaimed area was received.	ET requested the relevant contractors to provide information regarding the complaint. During the ET's site inspection, water spraying was provided on the related haul road, yet part of the road was observed dry with fugitive dust. The concerned contractor updated their dust suppression plan and an additional water truck was provided plus two sets of water sprinkler systems were installed as mitigation enhancements. Hence, the case was considered closed.	Closed
9 October 2023	A complaint regarding dust nuisance at Northeast Quay (NE Quay) was received.	ET requested the relevant contractors to provide information regarding the complaint and the replies indicated dust suppression measures such as water spraying and wheel washing were provided at NE Quay. During the ET's site inspections, no dust nuisance was observed. Having said that, the relevant contractors were reminded to properly implement and enhance dust measures at NE Quay. Hence, the case was considered closed.	Closed
16 October 2023	A complaint regarding noise and dust nuisance at Sky Plaza Road was received.	ET requested the relevant contractor to provide information regarding the complaint and reply indicated dust suppression measures and noise control measures were implemented at the related works area. Although no dust and noise nuisance issues were recorded during ET's site inspection, as an enhanced mitigation measure, the relevant contractor erected an additional layer of noise insulation materials to enclose the boundary of the works area and also adjusted the works schedule to start later in the morning to minimize noise and dust nuisance to the public. The relevant contractor was reminded to keep on review and continuously implement their enhanced dust and noise	Closed

Date of Complaint Received	Details	Analysis / Remedial Actions	Status
		mitigation measures. Hence, the case was considered closed.	
20 October 2023	A complaint regarding sand and gravel at South Perimeter Road was received.	ET requested the relevant contractors to provide information regarding the complaint and replies indicated the automatic wheel washing facility and provision of water spraying on vehicle wheels were both operating in normal condition. Despite no sand and gravel issue was recorded during ET's site inspections, the relevant contractors deployed water trucks to spray the ground at the concerned area, reminded all drivers to go through the wheel washing arrangement before exiting to public road and provided refresher training on manual wheel washing for their frontline workers. The relevant contractors were reminded to keep review and continuously provide proper wheel washing efforts and implement their enhanced mitigation measures. Hence, the case was considered closed.	Closed
30 October 2023	A complaint regarding dust nuisance from sand barge near Castle Peak Bay was received.	ET requested the relevant contractors to provide information regarding the complaint and replies indicated they had delivery barges moored at Marine Department's Designated Tuen Mun Immigration Anchorage Area during the period in which dust mitigation measures including water spraying were implemented on the barges. ET's checking in the Maritime Surveillance System indicated no barges under 3RS were moored near the Castle Peak Bay during the period of the complaint. Having said that, the relevant contractors were reminded to continuously and properly implement dust mitigation measures on their delivery barges. Hence, the case was considered closed.	Closed
21 November 2023	A complaint regarding dust nuisance at South Perimeter Road was received.	ET requested the relevant contractor to provide information regarding the complaints and replies indicated both the wheel washing facilities and road washing arrangement were enhanced by the contractor.  During ET's inspections, manual and automatic wheel	Closed
21 November 2023	Another complaint regarding dust nuisance at South Perimeter Road was received.	washing, and road sweeping and washing were observed in operation at the concerned area. Having said that, the relevant contractor was reminded to ensure vehicles are properly washed before leaving works areas and ensure no sand and gravel would be	
21 November 2023	A complaint regarding sand and gravel issue at South Perimeter Road was received.	deposited outside works areas. Hence, the case was considered closed.	
27 November 2023	A complaint regarding sand and gravel issue at South Perimeter Road was received.		
12 December 2023	A complaint regarding alleged environmental nuisance at Cheong Yip Road was received.	ET requested the relevant contractors to submit details concerning the complaint received and one of them replied they had concrete mixer trucks leaving 3RS construction site via Cheong Yip Road in which workers were assigned by the contractor to conduct road sweeping and road washing at the road. Subsequent inspections by the ET did not identify any environmental nuisances on Cheong Yip Road. The relevant contractor was reminded to continue and properly implement environmental mitigation measures when concrete mixer trucks leave the 3RS construction site via Cheong Yip Road. Hence, the case was considered closed.	Closed

Date of Complaint Received	Details	Analysis / Remedial Actions	Status
18 December 2023	A complaint regarding alleged dust nuisance at South Perimeter Road was received.	ET requested the relevant contractors to provide information regarding the complaint and replies indicated dust suppression measures including automatic and manual wheel washing facilities, road washing and sweeping arrangements, and water spraying during breaking activities were implemented. During the ET's inspections, no alleged nuisance was recorded at the concerned area. The relevant contractors were reminded to ensure vehicles are properly washed before leaving the 3RS construction site area and continue to implement dust mitigation measures and ensure no dust nuisance. Hence, the case was considered closed.	Closed

# **Cumulative Statistics for Valid Exceedances for the Environmental Monitoring**

		Total no. recorded in the reporting period	Total no. recorded since the project commenced
1-hr TSP	Action	0	0
	Limit	0	0
Noise	Action	0	0
	Limit	0	0
Waste	Action	0	1
	Limit	0	0
Water	Action	0	0
	Limit	0	0
CWD	Action	0	0
	Limit	0	0

Remark: Exceedances, which are not found project related, are not shown in this table.

# Cumulative Statistics for Non-compliance, Complaints, Notifications of Summons and Prosecution

Reporting Period		Cumula	ative Statistics	
	Non- compliance	Complaints	Notifications of Summons	Prosecutions
This reporting period	0	12	0	0
From 28 December 2015 to end of the reporting period	0	70	2	2

## **Appendix H. Tree Schedule**

#### Appendix H

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Contracts	Tree ID	Current Maintenance Agency	Easting	Northing	Chinese Name	Latin Name	DBH (mm)	Crown Spread (m)	Height (m)	Recommendation in LVP (Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
Exiting Works													
3302 3302	T05	3302 AAHK	811170.337 811275.297	818121.173 818150.991	大葉合歡 王棕	Albizia lebbeck	354 330	7	8	FELL	FELL	FELL	
3302	T02	3302	811264.902	818147.829	里原木 風風木	Roystonea regia  Delonix regia	310	7	11	RETAIN FELL	RETAIN FELL	Excluded from the Project FELL	Handed over to AAHK in Sept 2023.
3302	T03	AAHK	811263.970	818145.696	干棉	Roystonea regia	340	3	8	RETAIN	RETAIN	Excluded from the Project	Handed over to AAHK in Sept 2023.
3302	T04	AAHK	811197.022	818119.301	木棉	Bombax ceiba	400	7	8	RETAIN	RETAIN	Excluded from the Project	Handed over to AAHK in Sept 2023.
3302	T06	3302	811162.015	818120.276	楝	Melia azedarach	350	10	10	FELL	FELL	FELL	
3302	T07	AAHK	811156.704	818109.776	銀海棗	Phoenix sylvestris	360	7	12	RETAIN	RETAIN	Excluded from the Project	Handed over to AAHK in Sept 2023.
3302	T08	AAHK	811157.985	818104.865	榕樹	Ficus microcarpa	350	10	8	RETAIN	RETAIN	Excluded from the Project	Handed over to AAHK in Sept 2023.
3302	T09	AAHK AAHK	811154.973	818114.253	雞蛋花	Plumeria rubra	191	4	3.5	RETAIN	RETAIN	Excluded from the Project	Handed over to AAHK in Sept 2023.
3302 3302	T10 T11	AAHK	811154.739 811162.660	818117.318 818130.209	重葉榕 火焰木	Ficus benjamina Spathodea campanulata	450 370	- 5	5.5	RETAIN RETAIN	RETAIN RETAIN	Excluded from the Project Excluded from the Project	Handed over to AAHK in Sept 2023. Handed over to AAHK in Sept 2023.
3302	T12	AAHK	811167.380	818133.426	遊萃	Livistona chinensis	300	4	11	RETAIN	RETAIN	Excluded from the Project	Handed over to AAHK in Sept 2023.
3501	T2834	3501	811564.826	819989.263	銀樺	Grevillea robusta	95	2	4	FELL	FELL	FELL	
3501	T2840	3501	811583.814	820019.745	銀樺	Grevillea robusta	135	4	7	FELL	FELL	FELL	
3501	T2841	3501	811581.424	820017.802	銀樺	Grevillea robusta	135	3	6	FELL	FELL	FELL	
3501	T2842	3501	811579.389	820013.517	銀樺	Grevillea robusta	160	4	6	FELL	FELL	FELL	
3501	T2843 T2844	3501	811570.203	820021.011 820018.664	銀樺	Grevillea robusta	125 110	3	6	FELL	FELL	FELL	
3501 3501	12844 T2845	3501 3501	811569.526 811566.205	820018.664 820014.999	銀樺	Grevillea robusta Grevillea robusta	170	3	6	FELL	FELL FELL	FELL FFI I	
3501	T2846	3501	811560.860	820014.999	銀樺	Grevillea robusta	165	4	8	FELL	FELL	FELL	
3501	T2847	3501	811557.684	820018.792	銀樺	Grevillea robusta	160	4	7	FELL	FELL	FELL	
3501	T2848	3501	811557.945	820015.551	銀樺	Grevillea robusta	150	4	7	FELL	FELL	FELL	
3501	T2849	3501	811553.484	820017.694	銀樺	Grevillea robusta	95	3	6	FELL	FELL	FELL	
3501	T2850	3501	811552.831	820014.626	銀樺	Grevillea robusta	105	3	5	FELL	FELL	FELL	
3501 3501	T2851 T2852	3501 3501	811553.571 811550.004	820012.506 820027.267	紅膠木 棟	Lophostemon confertus	150 275	4 8	9	FELL	FELL	FELL	
3501 3501	T2852 T2853	3501 3501	811550.004 811550.004	820027.267 820028.299	棟	Melia azedarach Melia azedarach	275	3	7	FELL FELL	FELL FELL	FELL FELL	
3501	T2854	3501	811545.157	820028.299	棟	Melia azedarach	470	10	9	FELL	FELL	FELL	
3501	T2855	3501	811544.552	820031.723	棟	Melia azedarach	230	6	9	FELL	FELL	FELL	
3501	T2856	3501	811541.734	820025.226	耳果相思	Acacia auriculiformis	230	8	9	FELL	FELL	FELL	
3501	T2857	3501	811533.586	820023.626	洋紫荊	Bauhinia x Blakeana	175	4	5	FELL	FELL	FELL	
3501	T2858	3501	811544.246	820017.027	銀樺	Grevillea robusta	155	3	4	FELL	FELL	FELL	
3501 3501	T2859 T2860	3501 3501	811544.739 811544.339	820005.874 820002.513	銀樺	Grevillea robusta	105 95	3	6	FELL	FELL	FELL FFI I	
3501	T2860	3501 3501	811544.339 811536.815	820002.513 820015.382	抜件 銀樺	Grevillea robusta Grevillea robusta	120	2	5	FELL FELL	FELL FELL	FELL FELL	
3501	T2862	3501	811535.419	820013.382	銀樺	Grevillea robusta	110	2	5	FELL	FELL	FELL	
3501	T2863	3501	811535.788	820009.776	銀樺	Grevillea robusta	125	3	5	FELL	FELL	FELL	
3501	T2864	3501	811532.010	820006.746	銀樺	Grevillea robusta	150	4	7	FELL	FELL	FELL	
3501	T2865	3501	811512.828	820010.789	垂葉榕	Ficus benjamina	185	4	7	FELL	FELL	FELL	
3501	T2866	3501	811515.806	819996.902	紅膠木	Lophostemon confertus	225	4	6	FELL	FELL	FELL	
3501 3501	T2867 T2868	3501 3501	811508.914 811507.267	819997.550 820000.659	重葉榕	Ficus benjamina	160 160	4	5	FELL	FELL	FELL	
3501	T2869	3501	811507.267	819988.862	重葉榕 銀樺	Ficus benjamina Grevillea robusta	155	3	8	FELL FELL	FELL FELL	FELL FELL	
3501	T2870	3501	811506.500	819991.396	垂葉榕	Ficus benjamina	150	4	7	FELL	FELL	FELL	
3501	T2871	3501	811504.880	819988.678	重葉榕	Ficus benjamina	180	4	7	FELL	FELL	FELL	
3501	T2872	3501	811502.769	819988.202	重葉榕	Ficus benjamina	180	4	7	FELL	FELL	FELL	
3501	T2873	3501	811500.947	819985.060	重葉榕	Ficus benjamina	200	4	7	FELL	FELL	FELL	
3501 3501	T2874 T2875	3501 3501	811504.630 811503.555	819985.165 819982.468	重葉榕 垂葉榕	Ficus benjamina	165 210	4	7	FELL FELL	FELL FELL	FELL FELL	
3501	T2876	3501	811499.728	819980.100	至条倍 垂葉榕	Ficus benjamina Ficus benjamina	190	4	7	FELL	FELL	FELL	
3501	T2877	3501	811499.980	819976.821	重葉榕	Ficus benjamina	215	6	7	FELL	FELL	FELL	
3501	T2878	3501	811503.184	819978.072	重葉榕	Ficus benjamina	205	6	7	FELL	FELL	FELL	
3501	T2879	3501	811503.642	819974.334	垂葉榕	Ficus benjamina	215	6	7	FELL	FELL	FELL	
3501	T2880	3501	811499.977	819973.587	重葉榕	Ficus benjamina	160	4	7	FELL	FELL	FELL	
3501 3501	T2881	3501 3501	811502.953	819970.909	<b>重葉榕</b>	Ficus benjamina	220	5 7	7	FELL	FELL	FELL	
3501 3501	T2882 T2885	3501 3501	811501.449 811524.395	819968.218 819959.493	重葉榕 銀樺	Ficus benjamina Grevillea robusta	240 125	3	6	FELL FELL	FELL FELL	FELL FELL	
3501	T2886	3501	811519.066	819956.518	銀樺	Grevillea robusta	100	3	6	FELL	FELL	FELL	
3501	T2887	3501	811514.400	819956.820	重葉榕	Ficus benjamina	165	3	6	FELL	FELL	FELL	
3501	T2888	3501	811515.122	819948.868	重葉榕	Ficus benjamina	250	6	7	FELL	FELL	FELL	
3501	T2889	3501	811518.986	819948.249	重葉榕	Ficus benjamina	190	4	7	FELL	FELL	FELL	
3501	T2890	3501 3501	811526.581	819949.787	重葉榕 重葉榕	Ficus benjamina	230	5	7	FELL	FELL	FELL	
3501 3503	T2891	3501 N/A	811527.204 811942.889	819941.173 819462.737	亜単格 旅人蕉	Ficus benjamina	230	2	6 4	FELL RETAIN	FELL Not under 2BS contract works area	FELL Not under 205 contract works area	
3503	T1252 T1253	N/A	811942.170	819462.076	旅人蕉	Ravenala madagascariensis Ravenala madagascariensis	320 255	2	5	RETAIN	Not under 3RS contract works area Not under 3RS contract works area	Not under 3RS contract works area Not under 3RS contract works area	
3503	T1254	N/A	811941.455	819461.627	旅人蕉	Ravenala madagascariensis	200	2	5	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3503	T1255	N/A	811940.879	819461.577	旅人蕉	Ravenala madagascariensis	290	2	4	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3503	T1256	N/A	811940.544	819461.280	旅人蕉	Ravenala madagascariensis	220	2	5	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3503	T1257	N/A	811938.751	819460.180	旅人蕉	Ravenala madagascariensis	190	2	5	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3503 3503	T1258	N/A N/A	811937.702 811936.921	819458.816 819457.860	旅人蕉	Ravenala madagascariensis	255	2	5	RETAIN RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	+
3503	T1259 T1260	N/A N/A	811936.921 811936.154	819457.860	旅人蕉 旅人蕉	Ravenala madagascariensis Ravenala madagascariensis	245 210	2	5	RETAIN	Not under 3RS contract works area Not under 3RS contract works area	Not under 3RS contract works area Not under 3RS contract works area	
3503	T1278	N/A	811939.741	819459.409	旅人蕉	Ravenala madagascariensis	240	2	5	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3503	T1280	N/A	811939.020	819458.955	旅人蕉	Ravenala madagascariensis	240	2	5	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3503	T199	3503	811874.9683	819780.9829	耳果相思	Acacia auriculiformis	293	7	10	FELL	FELL	FELL	
3503	T200	3503	811867.3162	819782.114	楝	Melia azedarach	143	6	8	FELL	FELL	FELL	
3503	T245	3503	811846.5496	819771.2276	重葉榕	Ficus benjamina	156	3	5	FELL	FELL	FELL	
3503 3503	T246	3503	811845.3174	819768.2582	<b>重葉榕</b>	Ficus benjamina	172	4	6	FELL	FELL	FELL	
3503 3503	T247 T248	3503 3503	811848.2183 811847.5771	819767.3812 819764.0966	重葉榕 重葉榕	Ficus benjamina Ficus benjamina	210 172	5 4	7	FELL FELL	FELL FELL	FELL FELL	
3503	T248	3503	811849.7733	819763.4818	並 単格	Ficus benjamina Ficus benjamina	191	4	7	FELL	FELL	FELL	
3503	T250	3503	811851.512	819759.3679	<b>重業格</b>	Ficus benjamina	200	5	7	FELL	FELL	FELL	
3503	T251	3503	811850.5332	819756.9545	重葉榕	Ficus benjamina	140	5	7	FELL	FELL	FELL	
3503	T252	3503	811853.0333		重葉榕	Ficus benjamina	225	4	7	FELL	FELL	FELL	
3503	T253	3503	811852.0991	819753.5101	垂葉榕	Ficus benjamina	145	3	6	FELL	FELL	FELL	

		Current Maintenance						Measurem Crown		Recommendation in LVP			
Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Latin Name	DBH (mm)	Spread	Height (m)	(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
							(mm)	(m)	(m)				
xiting Works C 3503		3503	811854.5348	819752.1039	垂葉榕	Fine basinaia	125	4	7	reu l	FFII	FELL	T
3503	T254 T255	3503	811853.8168	819749.7097	並 条格	Ficus benjamina Ficus benjamina	135 190	4	7	FELL FELL	FELL FELL	FELL FELL	
3503	T256	3503	811856.1014	819748.5197	重葉榕	Ficus benjamina	165	4	6	FELL	FELL	FELL	
3503	T257	3503	811855.1171	819745.8945	垂葉榕	Ficus benjamina	160	4	7	FELL	FELL	FELL	
3503	T258	3503	811857.4192	819744.8442	垂葉榕	Ficus benjamina	230	5	7	FELL	FELL	FELL	
3503 3503	T259 T260	3503 3503	811856.6922 811859.4105	819742.2958 819741.1989	垂葉榕 垂葉榕	Ficus benjamina	170 165	5	7	FELL	FELL FELL	FELL FELL	
3503	T261	3503	811858.1933	819738.821	並 条格	Ficus benjamina Ficus benjamina	145	4	7	FELL	FELL	FELL	
3503	T262	3503	811860.8916	819737.4109	垂葉榕	Ficus benjamina	160	4	7	FELL	FELL	FELL	
3503	T263	3503	811859.7647	819734.9073	垂葉榕	Ficus benjamina	200	5	8	FELL	FELL	FELL	
3503	T264	3503	811862.3331	819733.8653	重葉榕	Ficus benjamina	245	5	8	FELL	FELL	FELL	
3503 3503	T265	3503 3503	811861.3125 811863.7152	819731.1781 819730.2974	重葉榕	Ficus benjamina	220	6	8	FELL	FELL	FELL	
3503	T266 T267	3503	811863.7152	819730.2974	重葉榕 重葉榕	Ficus benjamina Ficus benjamina	145 180	4	7 8	FELL FELL	FELL FELL	FELL FELL	
3503	T268	3503	811865.3478	819726.4652	重葉榕	Ficus benjamina	200	6	8	FELL	FELL	FELL	
3503	T269	3503	811864.8145	819723.7498	重葉榕	Ficus benjamina	220	6	9	FELL	FELL	FELL	
3503	T2718	3503	811737.3118	819724.557	重葉榕	Ficus benjamina	180	5	7	FELL	FELL	FELL	
3503	T2719	3503	811736.0886	819729.7665	垂葉榕	Ficus benjamina	135	4	5	FELL	FELL	FELL	
3503 3503	T272	3503 3503	811869.8078 811733.9528	819712.8991 819732.6672	重葉榕	Ficus benjamina	180	4	7	FELL	FELL	FELL	
3503	T2720 T2721	3503 3503	811733.9528 811731.0087	819732.6672 819741.1771	重葉榕 重葉榕	Ficus benjamina Ficus benjamina	135 125	3	6 5	FELL FELL	FELL FELL	FELL FELL	
3503	T2722	3503	811731.0087	819747.1919	重葉榕	Ficus benjamina	145	3	5	FELL	FELL	FELL	
3503	T2723	3503	811727.4899	819750.7511	重葉榕	Ficus benjamina	110	3	5	FELL	FELL	FELL	
3503	T2724	3503	811725.4148	819756.9635	重葉榕	Ficus benjamina	120	3	5	FELL	FELL	FELL	
3503	T2725	3503	811717.5441	819780.6435	重葉榕	Ficus benjamina	150	4	6	FELL	FELL	FELL	
3503 3503	T2726	3503 3503	811716.1256 811701.1278	819783.8559 819827.63	重葉榕 重葉榕	Ficus benjamina	140	3 5	6 7	FELL	FELL	FELL	
3503	T2727 T2728	3503 3503	811701.1278 811699.2648	819827.63 819833.2894	重集格 重萬榕	Ficus benjamina Ficus benjamina	220 170	5 3	6	FELL FELL	FELL FELL	FELL FELL	+
3503	T2729	3503	811698.0665	819836.5809	並 新 重 葉 整 格	Ficus benjamina Ficus benjamina	165	3	6	FELL	FELL	FELL	
3503	T273	3503	811871.533	819709.1063	重葉榕	Ficus benjamina	180	4	7	FELL	FELL	FELL	
3503	T2730	3503	811696.5413	819840.9023	重葉榕	Ficus benjamina	170	3	6	FELL	FELL	FELL	
3503	T2731	3503	811695.6629	819844.0416	重葉榕	Ficus benjamina	135	3	5	FELL	FELL	FELL	
3503 3503	T2732	3503 3503	811694.5866	819847.0217 819853.8894	<b>重葉榕</b>	Ficus benjamina	190	4	6	FELL	FELL	FELL	
3503	T2734 T2735	3503	811692.3213 811691.1826	819856.653	重葉榕 重葉榕	Ficus benjamina Ficus benjamina	180 180	3	7	FELL FELL	FELL FELL	FELL FELL	
3503	T2737	3503	811671.2792	819863.96	並 単 単 相 性	Ficus benjamina	170	4	6	FELL	FELL	FELL	
3503	T2738	3503	811667.5138	819865.5985	重葉榕	Ficus benjamina	180	4	6	FELL	FELL	FELL	
3503	T2739	3503	811664.2252	819864.8028	垂葉榕	Ficus benjamina	125	3	6	FELL	FELL	FELL	
3503	T2740	3503	811665.6255	819861.8557	重葉榕	Ficus benjamina	180	4	6	FELL	FELL	FELL	
3503 3503	T2741	3503 3503	811666.4677 811663.587	819896.7604 819899.6396	黄槿 苗槿	Hibiscus tiliaceus	265	8 7	7	FELL FELL	FELL FELL	FELL FELL	
3503	T2742 T2743	3503	811662 9199	819899.0390	黄槿	Hibiscus tiliaceus Hibiscus tiliaceus	155 140	6	6	FELL	FELL	FELL	
3503	T2744	3503	811661.5425	819905.3429	黄槿	Hibiscus tiliaceus	190	7	6	FELL	FELL	FELL	
3503	T2745	3503	811660.5227	819908.1113	黃槿	Hibiscus tiliaceus	125	6	6	FELL	FELL	FELL	
3503	T2746	3503	811659.5621	819911.0754	黄槿	Hibiscus tiliaceus	150	6	6	FELL	FELL	FELL	
3503 3503	T2747	3503	811659.0684	819913.1558	黄槿	Hibiscus tiliaceus	150	6	6	FELL	FELL	FELL	
3503	T2748	3503 3503	811658.3119 811657.3576	819915.7848 819918.9308	黃槿 黃槿	Hibiscus tiliaceus	155	7 8	5 7	FELL	FELL FELL	FELL FELL	
3503	T2749 T275	3503	811874.7882	819701.2678	垂葉榕	Hibiscus tiliaceus Ficus benjamina	295 216	6	8	FELL FELL	FELL	FELL	
3503	T2750	3503	811655.1594	819934.2419	重葉榕	Ficus benjamina	170	4	6	FELL	FELL	FELL	
3503	T2751	3503	811660.2811	819936.2932	垂葉榕	Ficus benjamina	250	6	7	FELL	FELL	FELL	
3503	T2752	3503	811676.0981	819912.2405	黄槿	Hibiscus tiliaceus	285	8	8	FELL	FELL	FELL	
3503 3503	T2753	3503 3503	811674.8702 811673.028	819915.7525 819926.0714	黄槿	Hibiscus tiliaceus	245	7	8	FELL	FELL	FELL	
3503	T2754 T2755	3503	811675.8052	819928.1589	黃槿 黃槿	Hibiscus tiliaceus Hibiscus tiliaceus	240 215	6	7	FELL FELL	FELL FELL	FELL FELL	
3503	T2756	3503	811677.6014	819932.0019	黄槿	Hibiscus tiliaceus	195	5	6	FELL	FELL	FELL	
3503	T2757	3503	811680.775	819933.2527	黃槿	Hibiscus tiliaceus	210	5	7	FELL	FELL	FELL	
3503	T2758	3503	811684.2845	819934.2151	黃槿	Hibiscus tiliaceus	230	7	8	FELL	FELL	FELL	
3503 3503	T2759	3503 3503	811689.3446 811876.5692	819936.2824 819697.608	黄槿 垂葉榕	Hibiscus tiliaceus	315	8	8 7	FELL	FELL	FELL	
3503	T276 T2760	3503 3503	811876.5692 811679.4328	819697.608 819944.6381	亜維格 重第榕	Ficus benjamina Ficus benjamina	185 190	4 5	7	FELL FELL	FELL FELL	FELL FELL	<del>                                     </del>
3503	T2761	3503	811689.0292	819947.8907	重葉榕	Ficus benjamina	230	6	8	FELL	FELL	FELL	
3503	T2762	3503	811707.4455	819941.5871	黄槿	Hibiscus tiliaceus	300	7	8	FELL	FELL	FELL	
3503	T2764	3503	811718.0322	819944.6888	黃槿	Hibiscus tiliaceus	215	6	6	FELL	FELL	FELL	
3503	T2765	3503	811723.8962	819944.8007	黄槿	Hibiscus tiliaceus	170	5	6	FELL	FELL	FELL	
3503 3503	T2766 T2767	3503 3503	811726.0197 811728.6136	819941.1453 819942.1798	黃槿 黃槿	Hibiscus tiliaceus Hibiscus tiliaceus	190 250	6 7	7	FELL FELL	FELL FELL	FELL FELL	
3503	T2767 T2768	3503	811728.6136	819942.1798 819932.6347	更佳 銀樺	Grevillea robusta	120	3	6	FELL	FELL FELL	FELL	
3503	T2769	3503	811740.1361	819930.3655	銀樺	Grevillea robusta	100	3	6	FELL	FELL	FELL	
3503	T277	3503	811878.5209	819693.5559	重葉榕	Ficus benjamina	213	4	7	FELL	FELL	FELL	
3503	T2770	3503	811748.4875	819916.8297	銀樺	Grevillea robusta	180	4	9	FELL	FELL	FELL	
3503	T279	3503	811881.5847	819685.8313	重葉榕	Ficus benjamina	194	4	7	FELL	FELL	FELL	
3503 3503	T280 T281	3503 3503	811883.439 811884.8408	819682.1788 819678.4291	重葉榕 重葉榕	Ficus benjamina	165 190	4	- 6 - 7	FELL FELL	FELL FFII	FELL FELL	
3503	T281 T282	3503	811884.8408 811886.353	819678.4291	並原格 垂葉榕	Ficus benjamina Ficus benjamina	260	6	8	FELL	FELL FELL	FELL	
3503	T2817	3503	811633.646	820008.781	銀樺	Grevillea robusta	160	3	7	*	FELL	FELL	
3503	T2818	3503	811631.363	820008.663	銀樺	Grevillea robusta	135	3	7		FELL	FELL	
3503	T2819	3503	811629.539	820007.787	銀樺	Grevillea robusta	175	3	7	*	FELL	FELL	
3503	T2820	3503 3503	811627.171	820007.147	銀樺	Grevillea robusta	125	3	7	*	FELL	FELL	
3503 3503	T2821 T2822	3503 3503	811625.252 811619.046	820006.178 820004.472	銀樺	Grevillea robusta Grevillea robusta	170 190	3	7	•	FELL FFII	FELL FELL	
3503	T2823	3503	811619.046	820004.472 820004.636	銀樺	Grevillea robusta	145	3	5	*	FELL	FELL	
3503	T2824	3503	811614.921	820003.336	銀樺	Grevillea robusta	120	2	5	*	FELL	FELL	
3503	T2825	3503	811610.414	820003.330	銀樺	Grevillea robusta	150	3	6	*	FELL	FELL	
3503	T2826	3503	811606.248	820001.058	銀樺	Grevillea robusta	120	2	6	*	FELL	FELL	
3503	T2827 T2828	3503 3503	811608.124	820001.837	銀樺	Grevillea robusta	125	2	6		FELL	FELL	
3503			811603.75	819999.498	銀樺	Grevillea robusta	110	3	1 5	. *	FELL	FELL	I .

		Current Maintenance					Tree	Measurem	nent	Recommendation in LVP			
Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Latin Name	DBH	Crown Spread	Height	(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
							(mm)	(m)	(m)	(**************************************			
Exiting Works													
3503 3503	T2829	3503 3503	811601.142	819998.056	銀樺	Grevillea robusta	100	2	5	*	FELL	FELL	
3503	T2830 T2831	3503	811596.549 811595.146	819997.142 819997.973	数件 銀樺	Grevillea robusta Grevillea robusta	150 100	2	4	:	FELL FELL	FELL FELL	
3503	T2832	3503	811593.285	819995.994	銀樺	Grevillea robusta	130	2	3		FELL	FELL	
3503	T2833	3503	811591.649	819995.917	銀樺	Grevillea robusta	160	3	4	*	FELL	FELL	
3503	T2835	3503	811551.5261	819981.7465	銀樺	Grevillea robusta	145	3	6	FELL	FELL	FELL	
3503 3503	T2836	3503 3503	811555.75 811530.2271	819981.7259 819973.1317	銀樺	Grevillea robusta	135	3	5	FELL	FELL	FELL	
3503	T2837 T2838	3503	81153U.2271 811591.033	819973.1317	数件 銀權	Grevillea robusta Grevillea robusta	100 135	3	5	FELL FELL	FELL FELL	FELL FELL	
3503	T2839	3503	811587.4376	820014.3732	紅膠木	Lophostemon confertus	190	8	7	FELL	FELL	FELL	
3503	T2883	3503	811530.4277	819965.4969	銀樺	Grevillea robusta	130	3	6	FELL	FELL	FELL	
3503	T2884	3503	811527.9982	819964.4492	銀樺	Grevillea robusta	140	3	6	FELL	FELL	FELL	
3503	T2914	3503	811467.2535	819924.1006	垂葉榕	Ficus benjamina	230	8	9	FELL	FELL	FELL	
3503	T2915	3503	811470.812	819923.8546	垂葉榕	Ficus benjamina	215	6	8	FELL	FELL	FELL	
3503 3503	T2916 T2917	3503 3503	811468.0169 811458.8193	819917.6263 819899.6831	重葉榕 重葉榕	Ficus benjamina Ficus benjamina	225 200	8	7 8	FELL FELL	FELL FELL	FELL FELL	
3503	T2917	3503	811456.9986	819895.9072	垂葉榕	Ficus benjamina	260	8	9	FELL	FELL	FELL	
3503	T2919	3503	811462.0653	819895.1999	垂葉榕	Ficus benjamina	245	8	8	FELL	FELL	FELL	
3503	T2938	3503	811537.0355	819917.5632	垂葉榕	Ficus benjamina	225	8	8	FELL	FELL	FELL	
3503	T2939	3503	811537.8463		重葉榕	Ficus benjamina	205	8	8	FELL	FELL	FELL	
3503 3503	T2940 T2941	3503 3503	811538.7845 811539.5657	819911.7577 819908.1966	重葉榕 重葉榕	Ficus benjamina	165	4	8	FELL	FELL	FELL	
3503	T2941 T2942	3503 3503	811539.5657 811540.2171	819908.1966 819906.0237	亜維格 亜維格	Ficus benjamina	215 130	2	5	FELL FELL	FELL FELL	FELL FELL	
3503	T2942	3503	811540.2171	819908.0237	並 条格	Ficus benjamina Ficus benjamina	230	8	7	FELL	FELL	FELL	
3503	T2944	3503	811534.5625	819901.4187	重葉榕	Ficus benjamina	215	6	7	FELL	FELL	FELL	
3503	T2945	3503	811545.4702		楝	Melia azedarach	210	6	7	FELL	FELL	FELL	
3503	T2946	3503	811547.357	819898.4851	棟	Melia azedarach	140	6	7	FELL	FELL	FELL	
3503 3503	T2950	3503 3503	811571.0078	819862.0616	黃槿 苦滋	Hibiscus tiliaceus	205	6	8	FELL	FELL	FELL	
3503	T2951 T2952	3503 3503	811573.6261 811577.0766	819860.1849 819858.264	黃槿 黃槿	Hibiscus tiliaceus Hibiscus tiliaceus	285 255	8	8	FELL FELL	FELL FELL	FELL FELL	
3503	T2953	3503	811577.0700	819857.1261	黄槿	Hibiscus tiliaceus	225	7	8	FELL	FELL	FELL	
3503	T2954	3503	811584.1838	819857.5631	黃槿	Hibiscus tiliaceus	205	7	8	FELL	FELL	FELL	
3503	T2955	3503	811586.0076	819854.2774	黃槿	Hibiscus tiliaceus	225	8	8	FELL	FELL	FELL	
3503	T2956	3503	811589.2795		黄槿	Hibiscus tiliaceus	240	6	8	FELL	FELL	FELL	
3503 3503	T2957	3503 3503	811587.7548 811590.8355	819858.6342 819859.6539	黄槿 青槿	Hibiscus tiliaceus	230	6	7	FELL	FELL	FELL	
3503	T2958 T2959	3503	811590.8353		黄槿	Hibiscus tiliaceus Hibiscus tiliaceus	225 215	6	8	FELL FELL	FELL FELL	FELL FELL	
3503	T2960	3503	811595.0588	819856.5982	青樺	Hibiscus tiliaceus	190	7	8	FELL	FELL	FELL	
3503	T2961	3503	811593.7039		黄槿	Hibiscus tiliaceus	260	8	8	FELL	FELL	FELL	
3503	T2962	3503	811597.3169	819861.8913	黃槿	Hibiscus tiliaceus	265	8	8	FELL	FELL	FELL	
3503	T2963	3503	811598.9118	819858.1086	黄槿	Hibiscus tiliaceus	300	8	8	FELL	FELL	FELL	
3503 3503	T2964 T2965	3503 3503	811601.96 811605.1951	819862.4595 819864.3796	黄槿 黄槿	Hibiscus tiliaceus	285 275	8	8 8	FELL FELL	FELL FELL	FELL FELL	
3503	T2966	3503	811609.8764		黄槿	Hibiscus tiliaceus Hibiscus tiliaceus	265	7	8	FELL	FELL	FELL	
3503	T2967	3503	811758.7007	819662.7	垂葉榕	Ficus benjamina	155	4	6	FELL	FELL	FELL	
3503	T2968	3503	811776.8647	819623.9263	垂葉榕	Ficus benjamina	225	8	8	FELL	FELL	FELL	
3503	T2969	3503	811777.519	819622.6111	垂葉榕	Ficus benjamina	195	7	8	FELL	FELL	FELL	
3503	T2970	3503	811675.9677	819581.9765	<b>重葉榕</b>	Ficus benjamina	205	6	9	FELL	FELL	FELL	
3503 3503	T2971 T2972	3503 3503	811674.3926 811673.83	819575.3587 819571.3163	重葉榕 重葉榕	Ficus benjamina Ficus benjamina	170 260	5 6	8	FELL FELL	FELL FELL	FELL FELL	
3503	T2973	3503	811673.7105	819567.6357	垂葉榕	Ficus benjamina	215	7	8	FELL	FELL	FELL	
3503	T2974	3503	811673.3071	819563.5969	垂葉榕	Ficus benjamina	210	7	8	FELL	FELL	FELL	
3503	T2975	3503	811672.1035	819559.9442	重葉榕	Ficus benjamina	215	7	8	FELL	FELL	FELL	
3503	T2976	3503	811672.2852		垂葉榕	Ficus benjamina	180	6	8	FELL	FELL	FELL	
3503 3503	T2977 T2978	3503 3503	811671.4024 811671.0478	819552.9569 819549.3686	重葉榕 重葉榕	Ficus benjamina	195 205	7	8	FELL FELL	FELL FELL	FELL FELL	
3503	T2978 T2979	3503	811671.0478	819549.3686 819545.7492	並兼格	Ficus benjamina Ficus benjamina	205	7	8	FELL	FELL	FELL	
3503	T2980	3503	811670.7522	819541.1446	重葉榕	Ficus benjamina	240	8	8	FELL	FELL	FELL	
3503	T2981	3503	811669.8359		重葉榕	Ficus benjamina	160	5	8	FELL	FELL	FELL	
3503	T2982	3503	811666.841	819536.211	重葉榕	Ficus benjamina	240	8	8	FELL	FELL	FELL	
3503 3503	T2984	3503 3503	811650.695 811651.3961	819558.8973 819567.1367	大花紫薇 大花紫薇	Lagerstroemia speciosa	145	5	4	FELL	FELL	FELL	
3503	T2985 T2986	3503 3503	811651.3961 811643.298	819567.1367 819503.9816	大化第微 垂葉榕	Lagerstroemia speciosa Ficus benjamina	125 225	6	8	FELL	FELL FELL	FELL FELL	
3503	T2987	3503	811643.6152	819503.3810	垂葉榕	Ficus benjamina	195	5	8	FELL	FELL	FELL	
3503	T2991	3503	811636.8564	819504.6597	垂葉榕	Ficus benjamina	195	7	8	FELL	FELL	FELL	
3503	T2992	3503	811663.42	819511.0293	重葉榕	Ficus benjamina	205	7	8	FELL	FELL	FELL	
3503	T2993	3503	811663.0745	819507.9529 819502.1075	<b>重葉榕</b>	Ficus benjamina	170	6	7	FELL	FELL	FELL	
3503 3503	T2994 T2995	3503 3503	811663.4943 811663.799	819502.1075 819498.4195	重葉榕 重葉榕	Ficus benjamina	210 180	6	7	FELL	FELL FFII	FELL FFII	
3503	T2995	3503	811666.3258	819498.4193	並 単格 重 華 格	Ficus benjamina Ficus benjamina	110	2	5	FELL	FELL	FELL	
3503	T2997	3503	811668.146	819488.1384	重葉榕	Ficus benjamina	120	3	5	FELL	FELL	FELL	
3503	T2998	3503	811671.1243	819485.7112	垂葉榕	Ficus benjamina	110	2	5	FELL	FELL	FELL	
3503	T3001	3503	811668.9877	819478.4861	鐵刀木	Senna siamea	220	6	10	FELL	FELL	FELL	
3503	T3002	3503	811671.8945	819481.3156	鐵刀木	Senna siamea	125	4	7	FELL	FELL	FELL	
3503 3503	T3003 T3004	3503 3503	811673.8026 811675.7389	819482.5442 819483.6615	重葉榕 重葉榕	Ficus benjamina	110	3	6	FELL FELL	FELL FELL	FELL FELL	
3503	T3004 T3005	3503	811675.7389	819483.6615 819482.8662	並原俗 重葉榕	Ficus benjamina Ficus benjamina	125 95	3	5	FELL	FELL	FELL	
3503	T3005	3503	811680.0778	819482.066	重葉榕	Ficus benjamina	120	4	6	FELL	FELL	FELL	
3503	T3007	3503	811682.7056	819480.8761	垂葉榕	Ficus benjamina	185	5	7	FELL	FELL	FELL	
3503	T3008	3503	811686.6082	819480.8518	重葉榕	Ficus benjamina	170	6	8	FELL	FELL	FELL	
3503	T3009	3503	811689.7741		<b>重葉榕</b>	Ficus benjamina	200	5	7	FELL	FELL	FELL	
3503 3503	T3011	3503 3503	811678.0046 811713.0237	819478.3947 819468.8084	鐵刀木	Senna siamea	155	7	10	FELL	FELL	FELL	
3503	T3012 T3013	3503 3503	811713.0237 811723.7036	819468.8084 819472.9494	銀樺鐵刀木	Grevillea robusta Senna siamea	110 120	4	5	FELL	FELL FELL	FELL FELL	
3503	T3014	3503	811728.9686	819474.3808	鐵刀木	Senna siamea	110	6	7	FELL	FELL	FELL	
3503	T3025	3503	811773.4733		鐵刀木	Senna siamea	140	6	7	FELL	FELL	FELL	
3503	T3026	3503	811775.2586	819482.4594	鐵刀木	Senna siamea	180	7	7	FELL	FELL	FELL	

		Current Maintenance						Measuren Crown		Recommendation in LVP			
Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Latin Name	DBH	Spread	Height	(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
							(mm)	(m)	(m)				
Exiting Works					(m.000. I								
3503 3503	T3027 T3029	3503 3503	811777.4513 811811.2023	819482.3962 819502.8837	紅膠木 鑽刀木	Lophostemon confertus	125	7	7 8	FELL FELL	FELL FELL	FELL FELL	
3503	T3030	3508	811607.241	819475 165	鐵刀木	Senna siamea Senna siamea	215 215	5	9	RETAIN	FELL	FELL	
3503	T3030A	3508	811614.052	819464.003	鐵刀木	Senna siamea	180	5	9	FELL	FELL	FELL	
3503	T3189	3508	811710.587	819398.281	鐵刀木	Senna siamea	155	6	10	RETAIN	FELL	FELL	
3503	T3190	3503	811713.0888	819417.0996	鐵刀木	Senna siamea	210	8	15	FELL	FELL	FELL	
3503	T3191	3508	811708.031	819411.045	銀樺	Grevillea robusta	120	4	6	RETAIN	FELL	FELL	
3503 3503	T3193	3503 3508	811702.0131 811699.116	819412.2825 819414.699	銀樺	GREVILLEA ROBUSTA	155	5 4	9	FELL RETAIN	FELL	FELL FELL	
3503	T3194 T3196	3503	811702.0285	819419.7629	鐵刀木	Grevillea robusta Senna siamea	130 165	6	12	FELL	FELL FELL	FELL	
3503	T3227	3503	811700.935	819447.6326	紅膠木	Lophostemon confertus	125	3	5	FELL	FELL	FELL	
3503	T562	3503	811881.6266	819763.8929	耳果相思	Acacia auriculiformis	300	6	10	FELL	FELL	FELL	
3503	T563	3503	811881.7689	819753.8192	耳果相思	Acacia auriculiformis	240	6	10	FELL	FELL	FELL	
3503	T564	3503	811889.3323	819739.9014	台灣相思	Acacia confusa	300	8	8	FELL	FELL	FELL	
3503 3503	T565	3503 3503	811885.6822 811893.1562	819735.3161 819733.4543	耳果相思 耳果相思	Acacia auriculiformis	240	7	8	FELL	FELL	FELL	
3503	T566 T568	3503	811893.1562 811899.3509	819733.4543 819709.3941	銀合歡	Acacia auriculiformis	310 325	8	10	FELL	FELL FELL	FELL FELL	
3503	T569	3503	811900.9756	819699.3232	銀合歡	Leucaena leucocephala Leucaena leucocephala	300	- 8	8	FELL	FELL	FELL	
3503	T636	3503	811762.2942	819891.578	銀樺	Grevillea robusta	115	4	8	FELL	FELL	FELL	
3503	T637	3503	811763.2402	819888.8642	銀樺	Grevillea robusta	135	4	8	FELL	FELL	FELL	
3503	T638	3503	811764.0844	819886.4193	銀樺	Grevillea robusta	145	4	8	FELL	FELL	FELL	
3503	T639	3503	811765.1834		銀樺	Grevillea robusta	140	4	10	FELL	FELL	FELL	
3503 3503	T640	3503 3503	811767.1844 811768.0325	819879.9601 819878.0379	鐵刀木 銀權	Senna siamea	260	9	10 7	FELL	FELL	FELL	
3503	T641 T642	3503 3503	811768.0325 811770.3142	819878.0379 819872.9406	銀樺	Grevillea robusta	115 145	3 4	8	FELL FELL	FELL FELL	FELL FELL	
3503	T643	3503	811770.9152	819870.4573	銀樺	Grevillea robusta Grevillea robusta	125	4	8	FELL	FELL	FELL	
3503	T644	3503	811770.7072	819868.5772	鐵刀木	Senna siamea	210	6	9	FELL	FELL	FELL	
3503	T645	3503	811772.704	819866.9045	銀樺	Grevillea robusta	190	5	8	FELL	FELL	FELL	
3503	T646	3503	811774.0805	819863.5729	鐵刀木	Senna siamea	190	6	6	FELL	FELL	FELL	
3503 3503	T647	3503 3503	811772.9364 811777.0587	819861.1877 819854.2343	銀樺	Grevillea robusta	105	2	4	FELL	FELL	FELL	
3503 3503	T648 T649	3503 3503	811777.0587 811778.4854	819854.2343 819851.921	鑑刀木 鑑刀木	Senna siamea	245 260	7	10 9	FELL	FELL FELL	FELL FELL	
3503	T649 T650	3503	811779.3136	819851.921 819846.9965	鐵刀木	Senna siamea Senna siamea	250	6	8	FELL FELL	FELL	FELL	
3503	T651	3503	811779.9751	819841.4906	銀樺	Grevillea robusta	210	4	9	FELL	FELL	FELL	
3503	T652	3503	811782.5554	819840.4916	銀樺	Grevillea robusta	175	5	10	FELL	FELL	FELL	
3503	T653	3503	811781.9413	819837.0654	鐵刀木	Senna siamea	215	8	9	FELL	FELL	FELL	
3503	T654	3503	811784.0636		鐵刀木	Senna siamea	190	6	8	FELL	FELL	FELL	
3503 3503	T656	3503 3503	811784.956	819828.7968 819828.9715	銀樺	Grevillea robusta	160	3	8	FELL	FELL	FELL	
3503	T657 T665	3503	811786.4555 811828.0763	819828.9715 819701.2597	銀樺	Grevillea robusta Grevillea robusta	190 110	2	9	FELL	FELL FELL	FELL FELL	
3503	T666	3503	811826.0731	819694.1514	銀權	Grevillea robusta	105	3	7	FELL	FELL	FELL	
3503	T667	3503	811827.2089	819690.4866	銀樺	Grevillea robusta	145	3	7	FELL	FELL	FELL	
3503	T668	3503	811831.7269	819679.09	銀樺	Grevillea robusta	110	3	6	FELL	FELL	FELL	
3503	T669	3503	811834.439	819664.3402	銀樺	Grevillea robusta	110	4	7	FELL	FELL	FELL	
3503 3503	T670	3503 3503	811836.7472	819658.5941	銀樺	Grevillea robusta	200	4	10	FELL	FELL	FELL	
3503	T671	3503	811837.3882 811837.567	819653.0066 819648.2486	取件 銀權	Grevillea robusta	145	5	7	FELL	FELL	FELL	
3503	T672 T675	3503	811817.0486	819730.4167	鐵刀木	Grevillea robusta Senna siamea	180 100	3	7	FELL FELL	FELL FELL	FELL FELL	
3503	T677	3503	811818.829	819725.7787	鐵刀木	Senna siamea	180	5	7	FELL	FELL	FELL	
3503	T678	3503	811821.1564	819704.7097	黃槿	Hibiscus tiliaceus	205	5	5	FELL	FELL	FELL	
3503	T679	3503	811822.2785	819700.2688	黄槿	Hibiscus tiliaceus	110	3	4	FELL	FELL	FELL	
3503 3503	T680	3503 3503	811820.2073 811817.9536	819698.0592 819696.8511	黄槿	Hibiscus tiliaceus	95	2	3	FELL	FELL	FELL	
3503	T681 T682	3503	811817.9536	819696.8511	黄槿 黄槿	Hibiscus tiliaceus	130	3 4	4	FELL	FELL	FELL FELL	
3503	T683	3503	811826.3931	819686.7894	黄槿	Hibiscus tiliaceus Hibiscus tiliaceus	120 160	5	6	FELL FELL	FELL FELL	FELL	
3503	T684	3503	811825.1633	819676.7568	黃槿	Hibiscus tiliaceus	165	5	5	FELL	FELL	FELL	
3503	T689	3503	811833.7284	819653.4138	銀樺	Grevillea robusta	140	3	9	FELL	FELL	FELL	
3503	T690	3503	811836.5697	819647.4155	銀樺	Grevillea robusta	130	3	6	FELL	FELL	FELL	
3503 3503	T691	3503 3503	811836.892 811836.5158	819640.758 819614.4323	銀樺	Grevillea robusta	195	4	9 7	FELL	FELL	FELL	
3503 3503	T692 T693	3503 3503	811836.5158 811833.9809	819614.4323 819613.4796	亜維格 垂葉榕	Ficus benjamina Ficus benjamina	205 205	6	7	FELL FELL	FELL FELL	FELL FELL	
3503	T694	3503	811831.9495	819612.7264	至条倍 垂葉榕	Ficus benjamina Ficus benjamina	255	6	7	FELL	FELL	FELL	
3503	T695	3503	811833.8823	819607.2979	垂葉榕	Ficus benjamina	165	4	6	FELL	FELL	FELL	
3503	T696	3503	811835.9394	819608.1413	重葉榕	Ficus benjamina	200	4	6	FELL	FELL	FELL	
3503	T697	3503	811839.0658	819609.2891	垂葉榕	Ficus benjamina	190	4	6	FELL	FELL	FELL	
3503	T698	3503	811840.7643 811838.4668	819602.4292 819601.5919	<b>重葉榕</b>	Ficus benjamina	215	5	7	FELL	FELL	FELL	
3503 3503	T699 T700	3503 3503	811838.4668 811835.9245	819601.5919 819600.5875	重葉榕 重葉榕	Ficus benjamina	190 250	- 5 - 6	7	FELL	FELL FELL	FELL FELL	
3503	T701	3503	811839.9549	819596.8615	至 集 格	Ficus benjamina Ficus benjamina	210	5	7	FELL	FELL	FELL	
3503	T702	3503	811842.1469	819594.7435	耳果相思	Acacia auriculiformis	290	6	10	FELL	FELL	FELL	
3503	T703	3503	811837.4088	819593.5575	重葉榕	Ficus benjamina	235	7	7	FELL	FELL	FELL	
3503	T704	3503	811839.2185	819585.8756	垂葉榕	Ficus benjamina	265	8	9	FELL	FELL	FELL	
3503	T705	3503	811831.801	819548.2848	垂葉榕	Ficus benjamina	155	5	7	FELL	FELL	FELL	
3503 3503	T706 T707	3503 3503	811832.4036 811832.2062	819547.1106 819545.9792	耳果相思 耳果相思	Acacia auriculiformis	125 140	3	9	FELL FELL	FELL FELL	FELL FELL	
3503	T707 T708	3503	811832.2062		日来相志 王果相思	Acacia auriculiformis Acacia auriculiformis	235	5	9	FELL	FELL	FELL	
3503	T709	3503	811828.4242	819547.4772	垂葉榕	Ficus benjamina	190	6	7	FELL	FELL	FELL	
3503	T710	3503	811825.1637	819546.3268	重葉榕	Ficus benjamina	140	4	7	FELL	FELL	FELL	
3503	T711	3503	811822.4641	819545.9012	重葉榕	Ficus benjamina	170	4	7	FELL	FELL	FELL	
3503	T712	3503	811820.048	819544.9957	垂葉榕	Ficus benjamina	190	6	7	FELL	FELL	FELL	
3503	T713	3503	811821.5465	819538.1386	垂葉榕	Ficus benjamina	180	4	5	FELL	FELL	FELL	
3503	T714	3503	811825.1873	819539.5038	重葉榕	Ficus benjamina	150	5	6	FELL	FELL	FELL	
3503 3503	T715 T718	3503 3503	811828.6209 811829.6561	819540.8304 819538.1053	重葉榕 耳果相思	Ficus benjamina Acacia auriculiformis	110 175	6	5 10	FELL	FELL FELL	FELL FELL	
3503	1718 T719	3503	811829.2841	819537.079	日果相思 日果相思	Acacia auriculiformis Acacia auriculiformis	175	4	8	FELL	FELL	FELL	
3503	T720	3503	811827.7935		耳果相思	Acacia auriculiformis	295	5	11	FELL	FELL	FELL	
3503	T721	3503	811824.9833	819531.1756	垂葉榕	Ficus benjamina	250	6	9	FELL	FELL	FELL	
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Contracts						-						
## Agency	rent Maintenance						Measureme Crown		Recommendation in LVP			
3503		Easting	Northing	Chinese Name	Latin Name	DBH (mm)	Spread	Height (m)	(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
\$503						(mm)	(m)	(m)				
\$503   1721   \$503   \$503   \$503   \$744   \$503   \$503   \$744   \$503   \$503   \$744   \$503   \$503   \$744   \$503   \$503   \$744   \$503   \$503   \$744   \$503   \$503   \$744   \$503   \$503   \$744   \$503   \$503   \$744   \$503   \$503   \$744   \$503   \$503   \$744   \$503   \$503   \$746   \$503   \$503   \$746   \$503   \$747   \$503   \$747   \$746   \$747   \$746   \$747   \$746   \$747   \$746   \$747   \$7	2502	811826.3862	819528.8965	<b></b>	A	170	4	10	ccu	FFU	FELL	
1741		811825.0296		日果相思 王果相思	Acacia auriculiformis Acacia auriculiformis	170 270	4	10	FELL FELL	FELL FELL	FELL FELL	
3503		811863.281		宮粉羊蹄甲	Bauhinia variegata	180	5	6	FELL	FELL	FELL	
3503	3503	811863.8422	819621.1064	宮粉羊蹄甲	Bauhinia variegata	145	4	5	FELL	FELL	FELL	
3503		811864.0362		宮粉羊蹄甲	Bauhinia variegata	180	4	5	FELL	FELL	FELL	
3503		811864.2603 811864.3107		濕地松 濕地松	Pinus elliottii	120	3	6	FELL FELL	FELL FELL	FELL FELL	
1503		811864.5279		選地松	Pinus elliottii Pinus elliottii	110 120	2	5	FELL	FELL	FELL	
\$903		811866.3477	819600.0625	耳果相思	Acacia auriculiformis	340	6	9	FELL	FELL	FELL	
3503		811885.3647		台灣相思	Acacia confusa	170	5	9	FELL	FELL	FELL	
3503         1754         3503           3503         1755         3503           3503         1755         3503           3503         1755         3503           3503         1757         3503           3503         1759         3503           3503         1750         3503           3503         1750         3503           3503         1760         3503           3503         1762         3503           3503         1762         3503           3503         1764         3503           3503         1765         3503           3503         1766         3503           3503         1776         3503           3503         1776         3503           3503         1776         3503           3503         1776         3503           3503         1779         3503           3503         1779         3503           3503         1779         3503           3503         1771         3503           3503         1771         3503           3503         1771         3503		811885.7403		台灣相思	Acacia confusa	185	5	9	FELL	FELL	FELL	
3503		811886.3905		台灣相思	Acacia confusa	145	3	7	FELL	FELL	FELL	
3503		811886.5755 811885.4178		台灣相思 台灣相思	Acacia confusa	190 100	3	8	FELL FELL	FELL FELL	FELL FELL	
3503		811886.2295		台灣相思	Acacia confusa Acacia confusa	95	2	7	FELL	FELL	FELL	
3503	3503	811884.5501	819614.9549	台灣相思	Acacia confusa	135	3	9	FELL	FELL	FELL	
3503	3503	811885.1692	819616.4815	台灣相思	Acacia confusa	110	3	8	FELL	FELL	FELL	
\$903   1761   \$903   \$903   \$903   \$1762   \$903   \$903   \$1762   \$903   \$903   \$1762   \$903   \$1803   \$1762   \$1803   \$1803   \$1764   \$1803   \$1803   \$1803   \$1765   \$1803   \$1803   \$1765   \$1803   \$1803   \$1765   \$1803   \$1803   \$1765   \$1803   \$1803   \$1766   \$1803   \$1803   \$1766   \$1803   \$1803   \$1766   \$1803   \$1803   \$1767   \$1803   \$1803   \$1767   \$1803   \$1803   \$1770   \$1803   \$1803   \$1771   \$1803   \$1803   \$1771   \$1803   \$1803   \$1771   \$1803   \$1803   \$1777   \$1803   \$1803   \$1777   \$1803   \$1803   \$1777   \$1803   \$1803   \$1777   \$1803   \$1803   \$1777   \$1803   \$1803   \$1777   \$1803   \$1803   \$1777   \$1803   \$1803   \$1777   \$1803   \$1803   \$1777   \$1803   \$1803   \$1777   \$1803   \$1803   \$1777   \$1803   \$1803   \$1777   \$1803   \$1803   \$1777   \$1803   \$1803   \$1803   \$1777   \$1803   \$1803   \$1803   \$1777   \$1803   \$1803   \$1803   \$1777   \$1803   \$1803   \$1803   \$1803   \$1777   \$1803		811885.9032	819616.1757	台灣相思	Acacia confusa	105	2	6	FELL	FELL	FELL	
3503		811885.8479		台灣相思	Acacia confusa	100	1	5	FELL	FELL	FELL	
3503		811885.6758 811884.4044		台灣相思	Acacia confusa	165 165	5 4	8	FELL	FELL	FELL FELL	
3503         1764         3503           3503         1765         3503           3503         1766         3503           3503         1766         3503           3503         1767         3503           3503         1770         3503           3503         1770         3503           3503         1770         3503           3503         1771         3503           3503         1777         3503           3503         1777         3503           3503         1777         3503           3503         1777         3503           3503         1777         3503           3503         1777         3503           3503         1776         3503           3503         1779         3503           3503         1799         3503           3503         1790         3503           3503         1791         3503           3503         1793         3503           3503         1793         3503           3503         1793         3503           3503         1793         3503		811884.4044	819620.962	台灣相思	Acacia confusa Acacia confusa	165	3	7	FELL FELL	FELL FELL	FELL	
3503		811884.8794		台灣相思	Acacia confusa	100	2	6	FELL	FELL	FELL	
3503	3503	811883.1193	819623.1704	台灣相思	Acacia confusa	160	5	9	FELL	FELL	FELL	
3503		811883.1991		台灣相思	Acacia confusa	105	3	9	FELL	FELL	FELL	
3503		811884.2291	819622.0277	台灣相思	Acacia confusa	145	4	9	FELL	FELL	FELL	
3503		811882.1484 811880.4934		耳果相思 耳果相思	Acacia auriculiformis	265	7	10	FELL	FELL FELL	FELL	
3503 1771 3503 3503 3503 17772 3503 3503 17773 3503 3503 17774 3503 3503 17774 3503 3503 17774 3503 3503 17774 3503 3503 17775 3503 3503 17776 3503 17776 3503 17776 3503 17776 3503 17776 3503 17776 3503 17776 3503 17790 3503 17790 3503 17790 3503 17791 3503 3503 17791 3503 3503 17791 3503 3503 17792 3503 3503 17794 3503 3503 17796 3503 3503 17796 3503 3503 17796 3503 3503 17796 3503 3503 17796 3503 3503 17796 3503 3503 37797 3503 3503 37797 3503 3503 37799 3503 37799 3503 37		811880.4934		母米相忠 義花夾竹桃	Acacia auriculiformis Thevetia peruviana	250 130	4	10 4	FELL FELL	FELL	FELL FELL	
\$503   1772   \$503   \$503   \$503   \$503   \$7774   \$503   \$503   \$7774   \$503   \$503   \$7774   \$503   \$703   \$7774   \$503   \$703   \$7775   \$703		811879.2905		黄花夾竹桃	Thevetia peruviana	135	5	5	FELL	FELL	FELL	
\$503   1774   \$503   \$503   \$503   \$503   1775   \$503   \$503   \$1775   \$503   \$503   \$1776   \$503   \$1503   \$1776   \$1503   \$1503   \$1776   \$1503   \$1503   \$1789   \$1503   \$1503   \$1790   \$1503   \$1503   \$1790   \$1503   \$1503   \$1790   \$1503   \$1503   \$1792   \$1503   \$1503   \$1792   \$1503   \$1503   \$1793   \$1503   \$1503   \$1793   \$1503   \$1503   \$1795   \$1503   \$1503   \$1795   \$1503   \$1503   \$1795   \$1503   \$1503   \$1796   \$1503   \$1503   \$1796   \$1503   \$1503   \$1799   \$1503   \$1503   \$1799   \$1503   \$1503   \$1503   \$1799   \$1503   \$1503   \$1503   \$1799   \$1503   \$1		811878.9684		耳果相思	Acacia auriculiformis	220	5	10	FELL	FELL	FELL	
3503 1775 3503 3503 3503 1776 3503 3503 1778 3503 3503 1780 3503 3503 1780 3503 3503 3503 1780 3503 3503 3503 3782 3503 3782 3503 3782 3503 3782 3503 3782 3503 3782 3503 3782 3503 3782 3503 3782 3503 3783 3503 3782 3503 3783 3503 3782 3503 3783 3503 3782 3503 3783 3503 3783 3503 3783 3503 3783 3503 3783 3503 3783 3503 3783 3503 3783 3503 3782 3503 3503 3782 3503 3503 3503 3503 3780 3503 3503 3503 3503 3503 3503 3503 35		811882.0702		黄花夾竹桃	Thevetia peruviana	125	5	4	FELL	FELL	FELL	
3503		811880.297	819638.9309	黄花夾竹桃 耳果相思	Thevetia peruviana	240	7	5	FELL	FELL	FELL	
3503		811877.0709 811875.0276		共業相思 大葉相思	Acacia auriculiformis	310 390	9 8	11	FELL	FELL FELL	FELL FELL	
3503		811841.273		人無相志 銀權	Acacia manqium Grevillea robusta	100	3	10 5	FELL FELL	FELL	FELL	
3503		811842.2498		銀樺	Grevillea robusta	205	4	10	FELL	FELL	FELL	
3503	3503	811842.2014	819628.5416	耳果相思	Acacia auriculiformis	205	4	9	FELL	FELL	FELL	
3503		811843.4386		銀樺	Grevillea robusta	200	5	9	FELL	FELL	FELL	
\$503   1795   \$503   \$503   \$503   \$1795   \$503   \$503   \$1796   \$503   \$1503   \$1796   \$1503   \$1503   \$1796   \$1503   \$1503   \$1799   \$1503   \$1503   \$1799   \$1503   \$1503   \$1799   \$1503   \$1503   \$1799   \$1503		811842.3108		銀樺	Grevillea robusta	115	3	8	FELL	FELL	FELL	
3503		811843.1885 811843.6596		銀樺	Grevillea robusta	100	2	7	FELL	FELL	FELL	
3503		811843.6666	819599.8194	銀樺	Grevillea robusta Grevillea robusta	145 100	2	9	FELL FELL	FELL FELL	FELL FELL	
3503         T798         3503           3503         T799         3503           3503         T800         3503           3503         T801         3503           3503         T802         3503           3503         T802         3503           3503         T805         3503           3503         T805         3503           3503         T806         3503           3503         T807         3503           3503         T809         3503           3503         T809         3503           3503         T809         3503           3503         T810         3503           3503         T812         3503           3503         T812         3503           3503         T814         3503           3503         T814         3503           3503         T814         3503           3503         T815         3503           3503         T816         3503           3503         T817         3503           3503         T818         3503           3503         T819         3503		811843.2603		銀樺	Grevillea robusta	100	2	6	FELL	FELL	FELL	
3503         T800         3503           3503         T801         3503           3503         T802         3503           3503         T802         3503           3503         T805         3503           3503         T806         3503           3503         T806         3503           3503         T806         3503           3503         T806         3503           3503         T809         3503           3503         T809         3503           3503         T810         3503           3503         T812         3503           3503         T812         3503           3503         T814         3503           3503         T815         3503           3503         T816         3503           3503         T816         3503           3503         T816         3503           3503         T816         3503           3503         T817         3503           3503         T818         3503           3503         T821         3503           3503         T821         3503	3503	811843.5965	819588.8107	銀樺	Grevillea robusta	165	3	9	FELL	FELL	FELL	
3503   T801   3503   3503   3503   T802   3503   3503   T802   3503   3503   3503   T802   3503   3503   3503   T802   3503   3503   3503   T802   3503   3503   3503   T806   3503   3503   3503   T806   3503   3503   3503   T806   3503   3503   3503   T800   3503   3503   3503   T800   3503   3503   3503   T810   3503   3503   3503   T811   3503   3503   T814   3503   3503   T815   3503   3503   T816   3503   3503   T817   3503   3503   T819   3503   3503   T819   3503   3503   T819   3503   3503   T820   3503   3503   T820   3503   3503   T821   3503   3503   T822   3503   3503   T823   3503   3503   T824   3503   3503   T825   3503   3503   T826   3503   3503   T827   3503   3503   T828   3503   3503   T828   3503   3503   T829   AAHK   3508   3503   T831   AAHK   3508   3503   T831   3508   AAHK   35	3503	811843.3053	819585.8036	銀樺	Grevillea robusta	115	2	8	FELL	FELL	FELL	
3503   7802   3503   3503   3503   3503   3503   3503   3503   7805   3503   3503   3503   3503   7805   3503   3503   7807   3503   3503   7807   3503   3503   7807   3503   3503   7809   3503   3503   7810   3503   3503   78110   3503   3503   78110   3503   3503   7811   3508   3503   7811   3508   3503   7811   3503   3503   7811   3503   3503   7815   3503   3503   7815   3503   3503   7816   3503   3503   7816   3503   3503   7817   3503   3503   7818   3503   3503   7819   3503   3503   7819   3503   3503   7821   3503		811841.5196		銀樺	Grevillea robusta	145	3	8	FELL	FELL	FELL	
3503   7803   3503   3503   3503   3503   3503   7806   3503   3503   3503   7806   3503   3503   3503   7806   3503   3503   7808   3503   3503   7808   3503   3503   7808   3503   3503   7810   3503   3503   78110   3503   3503   78111   3503   3503   78115   3503   3503   78115   3503   3503   78115   3503   3503   78116   3503   3503   3503   7816   3503   3503   3503   7816   3503   3503   3503   7817   3503   3		811840.51 811838.6529	819569.2426 819567.721	銀樺銀樺	Grevillea robusta	160	3	9 7	FELL	FELL	FELL	
3503   7805   3503   3503   3503   3503   7807   3503   3503   7807   3503   3503   3503   7807   3503   3503   7809   3503   3503   7809   3503   3503   7810   3503   3503   78112   3503   3503   78112   3503   3503   78114   3503   3503   7815   3503   3503   7815   3503   3503   7816   3503   3503   7816   3503   3503   7816   3503   3503   7816   3503   3503   7817   3503   3503   7819   3503   3503   7819   3503   3503   7819   3503   3503   7821   3503   3503   7821   3503   3503   7821   3503   3503   7821   3503   3503   7824   3503   3503   7827   3503   3503   7827   3503   3503   7827   3503   3503   7827   3503   3503   7828   3503   3503   7829   AAHK   3503   3503   7831   AAHK   3503   7831   3503   3503   7831   3503   3503   3503   3503   3503   3503   3503   3503   3503   3503   3503   3503   3503   3833   3508   3503   3503   3833   3508   3503   3833   3508   3503   3835   3503   3835   3503   3835   3503   3835   3503   3835   3503   3835   3503   3835   3503   3835   3503   3503   3835   3503   3503   3835   3503   3503   3835   3503   3503   3503   3835   3503		811839.4151		銀樺	Grevillea robusta GREVILLEA ROBUSTA	125 170	3	7	FELL FELL	FELL FELL	FELL FELL	
3503   7806   3503   3503   3503   7806   3503   3503   3503   7808   3503   3503   3503   7808   3503   3503   7810   3503   3503   7810   3503   3503   78110   3503   3503   78112   3503   3503   7813   3508   3503   7815   3503   3503   7815   3503   3503   7815   3503   3503   7815   3503   3503   3503   7815   3503   3503   3503   7816   3503   3503   3503   3603		811835.3023		鐵刀木	Senna siamea	260	6	9	FELL	FELL	FELL	
3503   T808   3503   3503   3503   3503   T810   3503   3503   3503   T810   3503   3503   3503   T8110   3503   3503   3503   T8113   3506   3503   3503   T814   3503   3503   3503   T815   3503   3503   3503   T816   3503   3503   3503   T816   3503   3503   3503   T816   3503   3503   3503   T818   3503   3503   3503   T819   3503   3503   3503   T820   3503   3503   3503   T820   3503	3503	811834.0203	819547.1969	鐵刀木	Senna siamea	170	5	8	FELL	FELL	FELL	
\$503   T809   \$503   \$503   \$503   \$503   \$503   \$503   \$503   \$503   \$503   \$503   \$503   \$7812   \$503   \$503   \$7812   \$503   \$503   \$7813   \$3508   \$503   \$7814   \$3503   \$503   \$7815   \$3503   \$7815   \$3503   \$7815   \$3503   \$7817   \$3503   \$7817   \$3503   \$7817   \$3503   \$7817   \$3503   \$7817   \$3503   \$7819   \$3503   \$7819   \$3503   \$7819   \$3503   \$7819   \$3503   \$7820   \$3503   \$7821   \$3503   \$7820   \$3503   \$7821   \$3503   \$7823   \$3503   \$		811832.9753		鐵刀木	Senna siamea	160	5	7	FELL	FELL	FELL	
3503		811828.865	819534.9118	銀樺	Grevillea robusta	140	6	12	FELL	FELL	FELL	
3503   T812   3508   3508   3509   T813   3508   3509   T814   3509   3509   T815   3500   3500   T815   3500   3500   T815   3500   3500   T815   3500   3500   T816   3500   3500   T817   3500   3500   T817   3500   3500   T819   3500   3500   T819   3500   3500   T821   3500   3500   T821   3500   3500   T821   3500   3500   T824   3500   3500   T825   3500   3500   T826   3500   3500   T827   3500   3500   T827   3500   3500   T828   3500   3500   T829   AAHK   3500   T830   AAHK   3500   T831   AAHK   3500   T831   3500   AAHK   3500   T831   3500   AAHK   3500   T836   AAHK   3500   AAHK		811827.273 811825.3367	819526.0796 819522.3289	鐵刀木 鐵刀木	Senna siamea Senna siamea	145 125	4 3	6	FELL FELL	FELL FELL	FELL FELL	
\$509. T813. \$508. \$509. \$1503. \$509. \$1503. \$1814. \$509. \$1503. \$1815. \$509. \$1509. \$1815. \$509. \$1509. \$16		811844.476	819472.355	細葉榕	Senna siamea Ficus microcarpa	465	8	14	TRANSPLANT	TRANSPLANTED	TRANSPLANTED	
3503 T815 3503 3503 3503 1817 3503 3503 1817 3503 3503 1817 3503 3503 1818 3503 3503 1819 3503 3503 1819 3503 3503 1819 3503 3503 1821 3503 3503 3603 3603 3603 3603 3603 3603		811843.473	819476.373	細葉榕	Ficus microcarpa	540	12	14	RETAIN	RETAIN	RETAIN	
3503   T816   3503   3503   3503   3503   T818   3503   3503   T818   3503   3503   3503   T818   3503   3503   3503   T819   3503   3503   3503   T821   3503   3503   3503   T822   3503   3503   3503   T824   3503   3503   3503   T825   3503   3503   T827   3503   3503   T827   3503   3503   T828   3503   3503   T828   3503   3503   T829   AAHK   AAHK   3503   3503   T829   AAHK   3503   3503   T829   AAHK   3503   3508   A11   3508   3508   A11   3508   3508   A12   3508   3003   3008   A142   3508   3008   A142   3508   3003   3008   A142   3508   3508   A142   3508   3508   A142   3508   A14	3503	811848.091	819476.008	細葉榕	Ficus microcarpa	435	8	14	TRANSPLANT	TRANSPLANTED	TRANSPLANTED	
3503 T817 3503 3503 3503 T819 3503 3503 T819 3503 3503 T819 3503 3503 3503 T820 3503 3503 3503 T821 3503 3503 3503 T821 3503 3503 3503 T824 3503 3503 3503 T825 3503 3503 3503 3503 3503 3503 3503 35		811847.561	819480.942	細葉榕	Ficus microcarpa	475	8	14	TRANSPLANT	TRANSPLANTED	TRANSPLANTED	
3503 T818 3503 3503 3503 T819 3503 3503 T820 3503 3503 T821 3503 3503 3503 T821 3503 3503 3503 T825 3503 3503 T827 3503 3503 3503 T827 3503 3503 T827 3503 3503 T828 3503 3503 3503 T828 3503 3503 3503 T829 AAHK 3503 3503 T829 AAHK 3503 3503 T829 AAHK 3503 T821 AAHK 3503 T825 AAHK 3508 A		811851.615 811852.4927	819479.6995 819483.8324	細葉榕 細葉榕	Ficus microcarpa	370 446	8 12	14	FELL FELL	FELL FELL	FELL FELL	
3503 1819 3503 3503 3503 18219 3503 3503 18211 3503 3503 3503 18221 3503 3503 3503 18224 3503 3503 3503 18225 3503 3503 3603 3603 3603 3603 3603 360		811857.692	819472.1271	細葉榕	Ficus microcarpa Ficus microcarpa	1000	12	12	FELL	FELL	FELL	
3503 T820 3503 3503 3503 3503 T821 3503 3503 T824 3503 3503 T825 3503 3503 T825 3503 3503 T826 3503 3503 T827 3503 3503 T828 3503 3503 T829 AAHK 3503 3503 T829 AAHK 3503 3503 T829 AAHK 3503 3503 T829 AAHK 3503 AAHK 3503 T831 AAHK 3503 T831 AAHK 3503 T832 3503 3503 T832 3503 3503 3503 T834 3508 AAHK 3503 T835 AAHK 3508 A1 3508	3503	811867.3128	819477.67	細葉榕	Ficus microcarpa	730	12	14	FELL	FELL	FELL	
3503 T824 3503 3503 3503 T827 3503 3503 T827 3503 3503 T828 3503 3503 3503 T829 AAHK 3503 T829 AAHK 3503 T831 AAHK 3503 T832 3503 3503 T832 3503 3503 T832 AAHK 3503 T832 A503 AAHK 3503 T832 A503 A503 A503 A503 A503 A503 A503 A503		811865.755	819467.469	鳳凰木	Delonix regia	300	7	9	FELL	FELL	FELL	
3503 T825 3503 3503 3503 1828 3503 1828 3503 3503 1828 3503 3503 1829 AAHK 3503 1820 AAHK 3503 1820 AAHK 3503 1823 AAHK 3503 1823 3503 3503 1823 3503 3503 1823 3508 3503 1823 3508 AAHK 3503 1823 AAHK 3508 3503 1823 AAHK 3508 AAHK 3508 AAHK 3508 AAHK 3508 AAHK 3508 AAHK 3503 3508 AAHK 3503 3508 AAHK 3503 3508 AAHK 3503 3508 AAHK 3508 A		811873.354		鳳凰木	Delonix regia	340	6	7	FELL	FELL	FELL	
3503 T827 3503 3503 T828 3503 3503 T829 AAHK 3503 T830 AAHK 3503 T831 AAHK 3503 T831 AAHK 3503 T831 AAHK 3503 T832 3503 3503 T832 3503 3503 T834 3508 3503 T835 AAHK 3508 AAHK		811871.6048 811862.967	819451.0912 819445.3242	細葉榕 細葉榕	Ficus microcarpa	1000	12	12	FELL	FELL	FELL	
3503 1828 3503 3503 3503 3503 1820 AAHK 3503 1820 AAHK 3503 1820 AAHK 3503 1820 AAHK 3503 1823 3503 3503 1823 3508 3503 1823 3508 3503 1823 3508 3503 1824 3508 AAHK 3508 3503 1825 AAHK 3508 3508 AAHK 3508 A		811862.967	819445.3242 819447.9131	細葉榕	Ficus microcarpa	950	10 12	12	FELL FELL	FELL FFII	FELL FFII	
3503 T829 AAHK 3503 T831 AAHK 3503 T831 AAHK 3503 T832 3503 3503 T833 3508 3503 T834 3508 3503 T834 3508 3503 T835 AAHK 3508 AAHK		811840.1687	819448.4583	細葉榕	Ficus microcarpa Ficus microcarpa	450	12	10	FELL	FELL	FELL	
3503 T830 AAHK 3503 T831 AAHK 3503 T832 3503 3503 T832 3508 3503 T833 3508 3503 T834 3508 3503 T835 AAHK 3503 T835 AAHK 3503 T837 3503 3503 T837 3503 3508 A1 3508 3508 A1 3508	AAHK	811834.950		細葉榕	Ficus microcarpa	450	10	12	TRANSPLANT	TRANSPLANTED	TRANSPLANTED	
3503 1832 3503 3503 3503 3503 1835 3508 3508 3503 1835 AAHK 3508 3503 1835 AAHK 3503 1835 AAHK 3503 1836 AAHK 3503 1836 AAHK 3508 3503 1836 AAHK 3508 A1 3508 3508 A1 3508 3508 A1 3508	AAHK	811837.974	819454.637	細葉榕	Ficus microcarpa	425	8	12	TRANSPLANT	TRANSPLANTED	TRANSPLANTED	
3503 T833 3508 3503 T834 3508 3503 T835 AAHK 3503 T836 AAHK 3503 T836 AAHK 3503 T837 3503 3503 T838 AAHK 3508 A1 3508		811833.979	819457.520	細葉榕	Ficus microcarpa	385	8	12	TRANSPLANT	TRANSPLANTED	TRANSPLANTED	
3503 T834 3508 3508 3503 T835 AAHK 3503 T835 AAHK 3503 T837 3503 T837 3503 3503 T837 3503 3508 A1 3508		811837.5654	819459.683	細葉榕	Ficus microcarpa	450	12	12	FELL	FELL	FELL	
3503 T835 AAHK 3503 T836 AAHK 3503 T837 3503 3503 T837 3503 3503 T838 AAHK 3508 A1 3508 3508 A142 3508		811834.113 811841.579		細葉榕 羅漢松	Ficus microcarpa	550	10 4	12 6	RETAIN RETAIN	RETAIN RETAIN	RETAIN RETAIN	
3503 T836 AAHK 3503 T837 3503 3503 T838 AAHK 3508 A1 3508 3508 A142 3508		811844.795	819460.472	羅漢松	Podocarpus macrophyllus Podocarpus macrophyllus	310 135	3	4	TRANSPLANT	TRANSPLANTED	TRANSPLANTED	
3503 T837 3503 3503 T838 AAHK 3508 A1 3508 3508 A142 3508	AAHK	811846.862	819461.371	羅漢松	Podocarpus macrophyllus	100	2	4	TRANSPLANT	TRANSPLANTED	TRANSPLANTED	
3503 T838 AAHK 3508 A1 3508 3508 A142 3508		811850.223	819459.190	羅漢松	Podocarpus macrophyllus	150	3	6	FELL	FELL	FELL	
3508 A142 3508	AAHK	811847.6852	819459.637	羅漢松	Podocarpus macrophyllus	100	2	5	TRANSPLANT	TRANSPLANTED	TRANSPLANTED	
		812011.519	819369.687	旅人蕉	Ravenala madagascariensis	215	5	6	*	FELL	FELL	
		811707.362	819394.046	銀合歡	Leucaena leucocephala	136	6	4	*	FELL	FELL	
3508 A143 3508 3508 A144 3508		819391.345 811686.836	811700.914 819406.606	銀合歡	Leucaena leucocephala	127	6	3	*	FELL	FELL	
3508 A144 3508 3508 A145 3508		811686.836	819405.505	更佳 淫槁樹	Hibiscus tiliaceus Litsea glutinosa	300 98	4 5	5	*	FELL FELL	FELL FFII	
3508 A146 3508		811703.342		紅膠木	Lophostemon confertus	103	6	3	*	FELL	FELL	
3508 A147 3508		811698.518		台灣相思	Acacia confusa	185	6	5	*	FELL	FELL	

							Tree	Measuren	nent	1		I	
Contracts	Tree ID	Current Maintenance Agency	Easting	Northing	Chinese Name	Latin Name	DBH (mm)	Crown Spread (m)	Height (m)	Recommendation in LVP (Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
Exiting Works								(111)					
3508 3508	A148 A149	3508 3508	811695.524 811716.23	819399.11 819383.221	潺槁樹 宮粉羊蹄甲	Litsea alutinosa	99 157	6	4	*	FELL FELL	FELL FELL	
3508	A150	3508	811717.379	81999378.56		Bauhinia variegata Litsea alutinosa	100	6	3	*	FELL	FELL	
3508	A151	3508	811724.258	819374.112	洋紫荊	Bauhinia x blakeana	98	5	3	*	FELL	FELL	
3508	A2	3508	812014.845	879315.476	椰子	Cocos nucifera	282	4	7	*	RETAIN	RETAIN	
3508 3508	T1236	3508 3508	811951.432 811950.932	819465.22 819466.17	旅人蕉 旅人蕉	Ravenala madagascariensis	200	2	5	RETAIN	REMOVED REMOVED	REMOVED	
3508	T1237 T1238	3508 3508	811950.932 811950.258	819466.17 819465.774	旅人無	Ravenala madagascariensis Ravenala madagascariensis	240	2	5	RETAIN RETAIN	REMOVED REMOVED	REMOVED REMOVED	
3508	T1239	3508	811949.186	819464.353	施人蕉	Ravenala madagascariensis	205	2	4	RETAIN	REMOVED	REMOVED	
3508	T1240	3508	811950.534	819463.95	旅人蕉	Ravenala madagascariensis	240	2	5	RETAIN	REMOVED	REMOVED	
3508	T1241	3508	811951.337	819464.358	旅人蕉	Ravenala madagascariensis	270	2	5	RETAIN	REMOVED	REMOVED	
3508	T1244	3508	811949.156	819462.48	旅人蕉	Ravenala madagascariensis	220	2	5	RETAIN	REMOVED	REMOVED	
3508 3508	T1245 T1246	3508 3508	811948.447 811948.085	819462.922 819463.697	旅人蕉 旅人蕉	Ravenala madagascariensis Ravenala madagascariensis	290 210	2	5	RETAIN RETAIN	REMOVED REMOVED	REMOVED REMOVED	
3508	T1248	3508	811946.05	819464.03	施人蕉	Ravenala madagascariensis	220	2	5	RETAIN	REMOVED	REMOVED	
3508	T1249	3508	811945.355	819463.638	旅人蕪	Ravenala madagascariensis	220	2	4	RETAIN	REMOVED	REMOVED	
3508	T1261	3508	811937.418	819455.235	旅人蕉	Ravenala madagascariensis	210	2	5	RETAIN	REMOVED	REMOVED	
3508	T1262	3508	811937.655	819457.269	旅人蕉	Ravenala madagascariensis	215	2	5	RETAIN	REMOVED	REMOVED	
3508 3508	T1263 T1264	3508 3508	811938.507 811938.728	819456.742 819455.422	旅人蕉 旅人蕉	Ravenala madagascariensis	190 255	2	5	RETAIN	REMOVED REMOVED	REMOVED REMOVED	
3508	T1265	3508	811939.361	819456.368	旅人蕉	Ravenala madagascariensis Ravenala madagascariensis	220	2	4	RETAIN RETAIN	REMOVED	REMOVED	
3508	T1267	3508	811940.256	819457.636	旅人蕉	Ravenala madagascariensis	255	2	5	RETAIN	REMOVED	REMOVED	
3508	T1268	3508	811941.614	819458.577	旅人蕉	Ravenala madagascariensis	220	2	5	RETAIN	REMOVED	REMOVED	
3508	T1269	3508	811943.616	819460.29	旅人蕉	Ravenala madagascariensis	330	2	5	RETAIN	REMOVED	REMOVED	
3508	T1270	3508 3508	811945.717	819461.351	旅人蕉 苦楝	Ravenala madagascariensis	240	2	5	RETAIN	REMOVED	REMOVED	la Found
3508 3508	T1270B	3508 3508	811947.14 811945.432	819456.731 819462.478	苦楝 能人葡	Melia azedarach Ravenala madagascariensis	234	2	8	* RETAIN	REMOVED REMOVED	REMOVED REMOVED	Duplicated
3508	T1272	3508	811945.432	819462.221	旅人蕉	Ravenala madagascariensis	290	2	5	RETAIN	REMOVED	REMOVED	
3508	T1273	3508	811943.837	819461.793	旅人蕉	Ravenala madagascariensis	290	2	5	RETAIN	REMOVED	REMOVED	
3508	T1274	3508	811942.187	819460.257	旅人蕉	Ravenala madagascariensis	215	2	5	RETAIN	REMOVED	REMOVED	
3508	T1275	3508	811941.574	819459.926	旅人蕉	Ravenala madagascariensis	290	2	5	RETAIN	REMOVED	REMOVED	
3508 3508	T1276 T1277	3508 3508	811941.009 811940.2881	819459.48 819458.8344	旅人蕉 旅人蕉	Ravenala madagascariensis	140 245	2	4 5	RETAIN	MISSING REMOVED	MISSING	
3508	T1277 T1279	3508 3508	811940.2881 811939.4901	819458.8344 819458.4649	旅人無	Ravenala madagascariensis Ravenala madagascariensis	245	2	5	RETAIN RETAIN	REMOVED REMOVED	REMOVED REMOVED	
3508	T1282	3508	811934.699	819452.582	施人蕉	Ravenala madagascariensis	260	2	5	RETAIN	REMOVED	REMOVED	
3508	T1283	3508	811934.555	819451.536	旅人蕉	Ravenala madagascariensis	200	2	4	RETAIN	REMOVED	REMOVED	
3508	T1284	3508	811932.968	819451.255	旅人蕉	Ravenala madagascariensis	220	2	5	RETAIN	REMOVED	REMOVED	
3508	T1285	3508	811932.277	819450.194	旅人蕉	Ravenala madagascariensis	175	2	4	RETAIN	REMOVED	REMOVED	
3508	T1286	3508	811931.796	819449.509	旅人蕉	Ravenala madagascariensis	220	2	5	RETAIN	REMOVED	REMOVED	
3508	T1287	3508	811931.117	819448.93	旅人蕉 旅人蕉	Ravenala madagascariensis	255	2	4	RETAIN	REMOVED	REMOVED	
3508 3508	T1288 T1289	3508 3508	811930.867 811929.999	819448.151 819446.7	旅人蕉	Ravenala madagascariensis Ravenala madagascariensis	190 260	2	5	RETAIN RETAIN	REMOVED REMOVED	REMOVED REMOVED	
3508	T1290	3508	811929.496	819445.855	旅人蕉	Ravenala madagascariensis	180	2	5	RETAIN	MISSING	MISSING	
3508	T1291	3508	811929.157	819445.115	旅人蕪	Ravenala madagascariensis	240	2	5	RETAIN	REMOVED	REMOVED	
3508	T1292	3508	811928.624	819444.401	旅人蕉	Ravenala madagascariensis	200	2	5	RETAIN	REMOVED	REMOVED	
3508	T1293	3508	811928.242	819442.335	旅人蕉	Ravenala madagascariensis	320	2	5	RETAIN	REMOVED	REMOVED	
3508	T1294	3508	811928.566	819441.163	旅人蕉 旅人蕉	Ravenala madagascariensis	220	2	5	RETAIN	REMOVED	REMOVED	
3508 3508	T1296 T1297	3508 3508	811927.611 811926.955	819439.632 819439.904	旅人無	Ravenala madagascariensis Ravenala madagascariensis	200 230	2	5	RETAIN RETAIN	REMOVED REMOVED	REMOVED REMOVED	
3508	T1298	3508	811925.706	819440.422	施人蕉	Ravenala madagascariensis	200	2	5	RETAIN	REMOVED	REMOVED	
3508	T1299	3508	811924.824	819438.608	旅人蕉	Ravenala madagascariensis	255	2	5	RETAIN	REMOVED	REMOVED	
3508	T1300	3508	811924.499	819437.856	旅人蕉	Ravenala madagascariensis	165	2	4	RETAIN	REMOVED	REMOVED	
3508	T1301	3508	811924.138	819437.015	旅人蕉	Ravenala madagascariensis	210	2	5	RETAIN	REMOVED	REMOVED	
3508	T1302	3508	811924.243	819435.803	旅人蕉	Ravenala madagascariensis	215	3	6	RETAIN	REMOVED	REMOVED	
3508 3508	T1303 T1304	3508 3508	811924.1 811924.619	819435.069 819434.669	旅人蕉 旅人蕉	Ravenala madagascariensis Ravenala madagascariensis	265 320	3	6	RETAIN RETAIN	REMOVED REMOVED	REMOVED REMOVED	
3508	T1304	3508	811925.219	819435.261	旅人蕉	Ravenala madagascariensis	215	2	5	RETAIN	REMOVED	REMOVED	
3508	T1306	3508	811926.558	819435.816	旅人蕉	Ravenala madagascariensis	215	2	5	RETAIN	REMOVED	REMOVED	
3508	T1307	3508	811927.571	819437.299	旅人蕉	Ravenala madaqascariensis	260	3	6	RETAIN	REMOVED	REMOVED	
3508	T1308	3508	811926.073	819436.95	旅人蕉	Ravenala madaqascariensis	300	3	6	RETAIN	REMOVED	REMOVED	
3508 3508	T1309	3508 3508	811926.178 811928.595	819438.326 819439.056	旅人蕉	Ravenala madagascariensis	260	3	5	RETAIN RETAIN	REMOVED	REMOVED REMOVED	
3508	T1311 T1312	3508	811928.595 811929.597	819439.056 819440.581	旅人蕉 旅人蕉	Ravenala madagascariensis Ravenala madagascariensis	200 190	2	5	RETAIN	REMOVED REMOVED	REMOVED REMOVED	
3508	T1313	3508	811930.015	819441.357	旅人蕉	Ravenala madagascariensis	190	2	5	RETAIN	REMOVED	REMOVED	
3508	T1314	3508	811929.186	819441.74	旅人蕉	Ravenala madagascariensis	170	2	5	RETAIN	REMOVED	REMOVED	
3508	T1315	3508	811930.532	819442.38	旅人蕉	Ravenala madagascariensis	255	2	5	RETAIN	REMOVED	REMOVED	
3508	T1316	3508	811931.821	819443.589	旅人蕉 旅人蕉	Ravenala madagascariensis	300	2	6	RETAIN	REMOVED	REMOVED	
3508 3508	T1317 T1318	3508 3508	811932.197 811933.066	819444.38 819445.972	脈人蕉 旅人蕉	Ravenala madagascariensis Ravenala madagascariensis	175 200	2	5	RETAIN RETAIN	REMOVED REMOVED	REMOVED REMOVED	
3508	T1318	3508	811933.000	819448.343	旅人蕉	Ravenala madagascariensis	220	2	5	RETAIN	REMOVED	REMOVED	
3508	T1321	3508	811935.366	819449.96	旅人蕉	Ravenala madaqascariensis	255	2	5	RETAIN	REMOVED	REMOVED	
3508	T1322	3508	811935.955	819450.822	旅人蕉	Ravenala madagascariensis	250	2	6	RETAIN	REMOVED	REMOVED	
3508	T1323	3508	811935.539	819452.067	旅人蕉	Ravenala madagascariensis	230	2	5	RETAIN	REMOVED	REMOVED	
3508	T1327	3508	811933.085	819449.616	旅人蕉	Ravenala madagascariensis	270	2	5	RETAIN	REMOVED	REMOVED	
3508	T1328	3508	811932.494	819448.234 819447.54	旅人蕉	Ravenala madagascariensis	240	2	5	RETAIN	REMOVED	REMOVED	
3508 3508	T1329	3508 3508	811932.029 811931.222	819447.54 819446.265	旅人蕉	Ravenala madagascariensis	285 220	2	5	RETAIN RETAIN	REMOVED REMOVED	REMOVED REMOVED	
3508	T1330 T1331	3508	811931.222 811930.509	819445.466	旅人蕉	Ravenala madagascariensis Ravenala madagascariensis	255	2	5	RETAIN RETAIN	REMOVED REMOVED	REMOVED REMOVED	
3508	T1332	3508	811930.2	819444.687	旅人蕉	Ravenala madagascariensis	215	2	5	RETAIN	REMOVED	REMOVED	
3508	T1333	3508	811930.235	819443.451	旅人蕉	Ravenala madagascariensis	240	2	5	RETAIN	REMOVED	REMOVED	
3508	T1377	3508	811483.52	820111.47	台灣相思	Acacia confusa	120	4	5	RETAIN	REMOVED	REMOVED	
3508	T1381A	3508	811871.959	819347.037	紅花夾竹桃	Nerium oleander	160	4	8	RETAIN	RETAIN	REMOVED	Handed over to Contractor 3508 in Nov 2022; Found fallen and removed in June 2023.
3508	T1382A	3508	811872.417	819347.825	紅花夾竹桃	Nerium oleander	95	4	8	RETAIN	RETAIN	REMOVED	Handed over to Contractor 3508 in Nov 2022; Confirmed dead due to unrecoverable health
3508	T1383	3508	811484.94	820118.79	黄槿	Hibiscus tiliaceus	120	1	1	RETAIN	REMOVED	REMOVED	problems in Mar 2023.
3508	T1384A	3508	811873.813	819349.865	紅花夾竹桃	Nerium oleander	110	4	8	RETAIN	RETAIN	RETAIN	Handed over to Contractor 3508 in Nov 2022.
3508	T1385A	3508	811875.347	819351.786	紅花夾竹桃	Nerium oleander	140	4	8	RETAIN	RETAIN	RETAIN	Handed over to Contractor 3508 in Nov 2022.

Part							l							
Column   C			Current Maintenance								Recommendation in LVP			
	Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Latin Name				(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
1.   1.   1.   1.   1.   1.   1.   1.	Fuiting Warley	C44-						(11111)	(m)	(111)				
10			3508	811875.808	819352.495	紅花來竹林	Nerium oleander	110	3	7	RETAIN	RETAIN	RETAIN	Handed over to Contractor 3508 in Nov 2022
			3508			紅花夾竹桃	Nerium oleander		3					
March   Marc									3					Handed over to Contractor 3508 in Nov 2022.
			3508		819354.413									Handed over to Contractor 3508 in Nov 2022.
August   Color									4					
196	3508	T1391A	3508	811878.57	819356.315	紅花夾竹桃	Nerium oleander	160	4	8	RETAIN	RETAIN	REMOVED	
10									4	8	RETAIN			
15														
100   100			3508			古棟 细心熱		166						Handed over to Contractor 3508 in Nov 2022.
100			3508											
10						耳果相思								
180		T1407A					Acacia confusa	195	4	10	FELL	FELL	FELL	
150   150			3508	811777.131				160		10		FELL		
Table   Tabl														
State   Column   Co														
1945   1945   1966   1970														
100.00		T1413A				台灣相思	Acacia confusa	205						
10						台灣相思	Acacia confusa	205						
1.00							Melia azedarach							
The column   The			3508											
100	3508	T1421	3508	811791.237	819327.128	台灣相思	Acacia confusa	175		9	FELL	FELL	FELL	
1965   1966					0200020020	H Mr	Melia azedarach							
1421   1422														
										_				
1.00														
1941   1942	3508		3508	811797.401	819340.423	紅膠木								
1340   750							Acacia confusa	160				FELL		
			3508											
Total														
1940   1940														
1-00	3508		3508	811805.739	819352.436	苦楝			8	12			FELL	
1940		T1440							3		FELL			
17-104   18-08   1119/17   1939-206   27			3508											
1506   1,144A   1506   1,1512.75   1,151														
17-14-0.   17-15-0.							Melia azedarach							
17-14-06   17-15-06   17-15-07   17-15-06	3508		3508	811823.746	819344.693									
Trigon   T		T1446A				苦楝	Melia azedarach	205	8	12	FELL		FELL	
Triangle														
1906														
Trigonome   Trig														
TASIA	3508			811812.384	819326.2			345		12		FELL		
1950   1950		T1453A		811810.122					6		FELL		FELL	
1956   1452A   3508   811805-56   81931-15   C플림티   Accor confuse   25   7   12   FEL														
11458A   506   11180-145   18911/47   1288년   Active confeas   59   3   8   FEL														
1598								95						
1566	3508		3508											
1508   1146A   1508   11904.57   19191.102   Care of the control of the contro	3508	T1460A	3508	811805.329			Acacia confusa	155		12	FELL	FELL	FELL	
1598   11464A   3508   61190.783   81931.423   12 플림링   Accord confuse   170   4   9   FELL   FEL														
1508   T1464A   3508   81190.2474   15190.2505   819114.159   Cēṃle   Acacia confusion   170   4   9   FELL   F							Acacia confusa							
1465A   1508   11802.950   189311.623   18														
1-1466/A   3-08	3508		3508	811802.905		棟								
1469A   3508   811796.27   819308.29   1異程度		T1466A	3508	811799.036	819313.178		Acacia auriculiformis	380	10	12	FELL	FELL	FELL	
15/08							Lophostemon confertus							
13-58														
15/08   T1.477   3508   81196.404   81926.9417   其果根   Macrica uniculiformis   260   6   12   FELL   FEL														
\$3.58														
3508   T1479   3508   811935.653   81940/353   R.人無   Rowenla madagoscoriensis   285   2   5   RETAIN   REMOVED   REMOVED	3508		3508	811934.331	819409.923	旅人蕉								
3508   T1481   3508   811941.453   81940.796   能人無   Revende modegascerienis   255   3   5   RETAIN   REMOVED   R							Ravenala madagascariensis							
1.1   1.2   1.5								175	2					
3508   T1484   3508   811946.659   811999.578   能人権   Rowendo madagoscariensis   220   3   5   RETAIN   REMOVED   REMOVED									3 2					
3508   T.1484   3508   811946.896   81940.0401   陈人蕉   Rovende madagescenenis   300   3   6   RETAIN   REMOVED			3508	811946.659								REMOVED		
1508   T.1492   \$508   \$11991.838   \$1394.9564   椰子   Coccs nuclera   285   4   6   REAIN   RETAIN   RETAIN												REMOVED		
3508   T1493   3508   811998.507   819351.254   梶子   Cocts murifera   280   4   6   TAAKSPLANT   TRAKSPLANTED   TRAKSPLANTED   TRAKSPLANTED														
3508   T1494   3508   811993.551   819351.991   根子   Coccs nuclera   285   4   6   TAANSPLANTE   TRANSPLANTED   TRANSPLANTED   TRANSPLANTED														
3508   T1495   3508   811992.617   819358.199   椰子   Cocos nuclfera   230   4   6   TRANSPLANT   TRANSPLANTED   TRANSPLANTED   TRANSPLANTED	3508		3508			椰子					TRANSPLANT TRANSPLANT	TRANSPLANTED TRANSPLANTED	TRANSPLANTED TRANSPLANTED	
3508   T1496   3508   811994.227   819358.466   根子   Coccs nuclera   285   4   6   TRANSPLANT   TRANSPLANTED														
3508   T.1497   3508   811995-885   81936.927   椰子   Cocos nuclera   310   4   6   TRANSPLANTE   TRANSPLANTED   TRANSPLANTE	3508	T1496	3508	811994.227	819358.466	椰子		285	4	6	TRANSPLANT	TRANSPLANTED	TRANSPLANTED	
1499   3508   812002.82   819361.73   佛子   Cocs nuclera   285   4   6   TRANSPLANTE   TRANSPLANTED   TRANSPL							Cocos nucifera							
3508         T1500         3508         812002.163         819364.94         椰子         Coccs nuclfero         285         4         6         TRANSPLANTE         TRANSPLANTED         TRANSPLANTED           3508         T1501         3508         812003.526         819366.622         椰子         Coccs nuclfero         285         4         6         TRANSPLANTED         TRANSPLANTED         TRANSPLANTED           3508         812001.218         819368.586         #F         Coccs nuclfero         285         4         6         TRANSPLANTED         TRANSPLANTED         TRANSPLANTED								285						
3508         T1501         3508         812003.526         819366.622         傷子         Coco nuclfera         285         4         6         TRANSPLANTE         TRANSPLANTED         TRANSPLANTED           3508         T1502         3508         812001.218         819368.586         傷子         Cocos nuclfera         285         4         6         TRANSPLANTED         TRANSPLANTED         TRANSPLANTED														
3508 T1502 3508 812001.218 819368.586 椰子 Cocos nuclfera 285 4 6 TRANSPLANT TRANSPLANTED TRANSPLANTED										_				
3508   T1503   3508   812002.906   819371.18 椰子   Cocco nucifera   260   4   6   TRANSPLANT   TRANSPLANTED   TRANSPLANTED		T1502					Cocos nucifera	285	4	6	TRANSPLANT	TRANSPLANTED	TRANSPLANTED	
	3508		3508	812002.906	819371.18	椰子			4	6	TRANSPLANT	TRANSPLANTED	TRANSPLANTED	

		Tree Measurement											
Contracts	Tree ID	Current Maintenance	Easting	Northing	Chinese Name	Latin Name	DBH	Crown	ent Height	Recommendation in LVP	Status as of end 2022	Status as of end 2023	Remark
Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Laun Name	(mm)	Spread (m)	(m)	(Jan 2021)	Status as of end 2022	Status as or end 2025	Remark
Exiting Works C													
3508	T1504	3508	812005.411	819369.3	椰子	Cocos nucifera	285	4	6	TRANSPLANT	TRANSPLANTED	TRANSPLANTED	
3508 3508	T1506 T1507	3508 3508	812006.324 812008.042	819375.896 819378.517	椰子椰子	Cocos nucifera	255 250	4	6	RETAIN RETAIN	RETAIN RETAIN	RETAIN RETAIN	
3508	T1508	3508	812009.773	819381.001	椰子	Cocos nucifera Cocos nucifera	230	4	5	RETAIN	RETAIN	RETAIN	
3508	T1509	3508	812011.488	819383.414	椰子	Cocos nucifera	300	4	6	RETAIN	RETAIN	RETAIN	
3508	T1512	3508	812014.255	819386.336	椰子	Cocos nucifera	280	4	6	RETAIN	RETAIN	RETAIN	
3508 3508	T1514 T1515	3508 3508	812016.634 812018.437	819391.046 819393.493	椰子椰子	Cocos nucifera Cocos nucifera	300 285	4	6	RETAIN RETAIN	RETAIN RETAIN	RETAIN RETAIN	
3508	T1518	3508	812020.135	819395.886	椰子	Cocos nucifera	230	4	6	RETAIN	RETAIN	RETAIN	
3508	T1519	3508	812021.876	819398.428	椰子	Cocos nucifera	230	4	6	RETAIN	RETAIN	RETAIN	
3508	T1521	3508	812023.537	819401.022	椰子	Cocos nucifera	285	4	6	RETAIN	RETAIN	RETAIN	
3508 3508	T1522	3508	812027.183	819406.119	椰子	Cocos nucifera	285	4	6	RETAIN	RETAIN	RETAIN	
3508	T1524 T1525	3508 3508	812032.541 812034.273	819413.666 819416.273	椰子椰子	Cocos nucifera Cocos nucifera	220 285	4	5	RETAIN RETAIN	RETAIN RETAIN	RETAIN RETAIN	
3508	T1527	3508	812037.898	819421.007	椰子	Cocos nucifera	285	4	6	RETAIN	RETAIN	RETAIN	
3508	T1528	3508	812039.583	819423.549	椰子	Cocos nucifera	285	4	6	RETAIN	RETAIN	RETAIN	
3508	T1531	3508	812041.338	819426.334	椰子	Cocos nucifera	265	4	5	RETAIN	RETAIN	RETAIN	
3508 3508	T1532	3508 3508	812042.917 812046.331	819428.646 819433.584	椰子椰子	Cocos nucifera	240	4	6	RETAIN	RETAIN	RETAIN	
3508	T1536 T3157	3508	812046.331 811722.863	819433.584 819371.335	大葉相思	Cocos nucifera Acacia mangium	270 110	2	5 7	RETAIN FELL	RETAIN FELL	RETAIN FELL	
3508	T3158	3508	811721.163	819371.569	黄槿	Hibiscus tiliaceus	135	3	7	FELL	FELL	FELL	
3508	T3159	3508	811721.145	819372.531	台灣相思	Acacia confusa	150	3	7	FELL	FELL	FELL	
3508	T3160	3508	811720.145	819372.855	黄槿	Hibiscus tiliaceus	100	3	7	FELL	FELL	FELL	
3508 3508	T3161	3508 3508	811721.382 811720.714	819374.136 819375.912	台灣相思	Acacia confusa	190	6	8	FELL	FELL	FELL	
3508	T3162 T3163	3508 3508	811720.714 811722.299	819375.912 819375.571	台灣相思	Acacia confusa Acacia confusa	155 225	6	8 10	FELL FELL	FELL FELL	FELL FELL	
3508	T3165	3508	811724.192	819377.515	宮粉洋蹄甲	Bauhinia variegata	105	4	6	FELL	FELL	FELL	
3508	T3168	3508	811724.749	819383.442	台灣相思	Acacia confusa	285	8	10	FELL	FELL	FELL	
3508	T3169	3508	811722.095	819386.336	潺槁樹	Litsea glutinosa	100	4	6	FELL	FELL	FELL	
3508	T3170	3508 3508	811721.285	819386.955 819387.349	大葉相思	Acacia mangium	170	4	8	FELL	FELL	FELL	
3508 3508	T3171 T3172	3508	811720.311 811721.558	819387.349 819386.087	大蘇相思 大蘇相思	Acacia mangium  Acacia mangium	215 270	6	10	FELL FELL	FELL FELL	FELL FELL	
3508	T3173	3508	811718.255	819386.706	大葉相思	Acacia mangium	125	4	9	FELL	FELL	FELL	
3508	T3174	3508	811719.675	819385.118	大葉相思	Acacia mangium	115	1	0	FELL	FELL	FELL	
3508	T3176	3508	811717.544	819386.181	大葉相思	Acacia mangium	205	4	9	FELL	FELL	FELL	
3508 3508	T3177	3508 3508	811719.098 811714.848	819381.592 819381.594	台灣相思	Acacia confusa	210	6	10	FELL	FELL	FELL	
3508	T3178 T3179	3508	811713.955	819381.559	台灣相思	Acacia confusa  Acacia confusa	150 220	6	9	FELL FELL	FELL FELL	FELL FELL	
3508	T3180	3508	811715.391	819378.192	台灣相思	Acacia confusa	165	6	10	FELL	FELL	FELL	
3508	T3181	3508	811715.95	819376.568	台灣相思	Acacia confusa	135	4	10	FELL	FELL	FELL	
3508	T3183	3508	811719.177	819377.271	台灣相思	Acacia confusa	155	4	10	FELL	FELL	FELL	
3508	T3211	3508	811697.113	819405.346	台灣相思	Acacia confusa	290	8	9	FELL	FELL	FELL	
3508 3508	T3212 T3213	3508 3508	811696.127 811696.559	819402.697 819401.431	潺槁樹 苦楝	Litsea qlutinosa Melia azedarach	120 155	3	7	FELL FELL	FELL FELL	FELL FELL	
3508	T3214	3508	811701.332	819397.298	宮粉洋蹄甲	Bauhinia variegata	170	7	7	FELL	FELL	FELL	
3508	T3215	3508	811708.882	819395.503	大葉相思	Acacia mangium	180	6	10	FELL	FELL	FELL	
3508	T3216	3508	811708.785	819394.555	大葉相思	Acacia mangium	235	6	10	FELL	FELL	FELL	
3508 3508	T3217 T3218	3508 3508	811705.023 811707.126	819394.006 819392.027	大葉相思 苦楝	Acacia mangium Melia azedarach	180 115	3	7	FELL FELL	FELL FELL	FELL FELL	
3508	T3218	3508	811707.126	819392.027	声休 潺槁樹	Litsea glutinosa	100	3	5	FELL	FELL	FELL	
3508	T3241	3508	811784.996	819372.228	旅人蕪	Ravenala madagascariensis	195	2	5	FELL	FELL	FELL	
3508	T3242	3508	811784.572	819370.879	旅人蕉	Ravenala madagascariensis	190	2	5	FELL	FELL	FELL	
3508	T3243	3508	811783.564	819371.308	旅人蕉	Ravenala madagascariensis	205	3	7	FELL	FELL	FELL	
3508	T3244	3508 3508	811782.355 811781.988	819371.912 819371.135	旅人蕉	Ravenala madaqascariensis	250	3	7	FELL	FELL	FELL	
3508 3508	T3245 T3246	3508 3508	811781.988 811781.333	819371.135 819371.272	旅人蕉 旅人蕉	Ravenala madagascariensis Ravenala madagascariensis	225	2	7	FELL FELL	FELL FELL	FELL FELL	
3508	T3247	3508	811781.333	819370.349	旅人蕉	Ravenala madagascariensis	180	2	5	FELL	FELL	FELL	
3508	T3249	3508	811779.345	819371.573	旅人蕉	Ravenala madagascariensis	190	2	4	FELL	FELL	FELL	
3508	T3251	3508	811779.58	819369.814	旅人蕉	Ravenala madagascariensis	225	2	5	FELL	FELL	FELL	
3508 3508	T3252 T3253	3508 3508	811778.849 811778.456	819369.583 819371.121	旅人蕉 旅人蕉	Ravenala madagascariensis	300 240	3	6 5	FELL FELL	FELL FELL	FELL FELL	
3508	T3254	3508	811778.312	819371.932	旅人蕉	Ravenala madagascariensis Ravenala madagascariensis	160	1	4	FELL	FELL	FELL	
3508	T3257	3508	811776.588	819367.776	旅人蕉	Ravenala madagascariensis	320	3	6	FELL	FELL	FELL	
3508	T3258	3508	811775.177	819367.931	旅人蕉	Ravenala madagascariensis	185	2	5	FELL	FELL	FELL	
3508	T3259	3508	811775.361	819369.156	旅人蕉	Ravenala madagascariensis	250	3	5	FELL	FELL	FELL	
3508 3508	T3261	3508 3508	811773.379 811774.002	819369.093 819368.351	旅人蕉 旅人蕉	Ravenala madagascariensis	195	3	5	FELL	FELL FELL	FELL FELL	
3508	T3262 T3263	3508	811774.002	819368.351 819366.486	版人無 施人蕪	Ravenala madagascariensis Ravenala madagascariensis	180 190	2	5 4	FELL FELL	FELL	FELL	
3508	T3264	3508	811771.088	819366.016	旅人蕉	Ravenala madagascariensis	240	3	7	FELL	FELL	FELL	
3508	T3265	3508	811769.706	819366.018	旅人蕉	Ravenala madagascariensis	195	2	5	FELL	FELL	FELL	
3508	T3266	3508	811770.781	819365.088	旅人蕉	Ravenala madagascariensis	190	2	4	FELL	MISSING	MISSING	
3508 3508	T3267 T3268	3508 3508	811769.313 811769.131	819365.038 819363.843	旅人蕉 旅人蕉	Ravenala madagascariensis	240 250	3 4	7	FELL FELL	FELL FELL	FELL FELL	
3508	T3268 T3269	3508	811769.131	819363.843 819363.532	版人無 施人蕪	Ravenala madagascariensis Ravenala madagascariensis	190	2	5	FELL	FELL	FELL	
3508	T3270	3508	811767.228	819363.494	旅人蕉	Ravenala madagascariensis	275	4	7	FELL	FELL	FELL	
3508	T3271	3508	811766.091	819363.28	旅人蕉	Ravenala madagascariensis	195	4	6	FELL	FELL	FELL	
3508	T3272	3508	811766.769	819362.548	旅人蕉	Ravenala madagascariensis	190	2	4	FELL	FELL	FELL	
3508 3508	T3274	3508	811765.133	819362.515	旅人蕉	Ravenala madagascariensis	175	3	6	FELL	FELL	FELL	
3508	T3275 T3276	3508 3508	811766.086 811763.267	819361.46 819362.075	旅人蕉 旅人萑	Ravenala madagascariensis	265 215	4	7	FELL FELL	FELL FELL	FELL FELL	
3508	T3276	3508	811763.267	819362.943	旅人蕉	Ravenala madagascariensis Ravenala madagascariensis	225	4	7	FELL	FELL	FELL	
3508	T3278	3508	811762.231	819362.993	旅人蕉	Ravenala madagascariensis	210	4	7	FELL	FELL	FELL	
3508	T3280	3508	811761.398	819362.354	旅人蕉	Ravenala madagascariensis	180	4	6	FELL	FELL	FELL	
3508 3508	T3281	3508 3508	811761.25	819360.106	旅人蕉 旅人蕉	Ravenala madagascariensis	210	3	6	FELL	FELL	FELL	
3508	T3282 T3283	3508 3508	811760.004 811759.698	819359.739 819360.757	版人無 能人蕪	Ravenala madagascariensis Ravenala madagascariensis	180 220	3 4	7	FELL FELL	MISSING FELL	MISSING FELL	
3508	T3284	3508	811759.299	819361.152	旅人蕉	Ravenala madagascariensis	215		7	FELL	FELL	FELL	
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		Current Maintenance						Measurem		Recommendation in LVP			
Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Latin Name	DBH (mm)	Spread	Height (m)	(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
							(mm)	(m)	(m)				
Exiting Works Co 3508		3508	811758.618	819360.88	旅人蕉		240	-	7	re:	res.	- Fru	T
3508	T3285 T3286	3508	811758.691	819360.538	旅人蕉	Ravenala madagascariensis Ravenala madagascariensis	210 240	5	7	FELL FELL	FELL FELL	FELL FELL	
3508	T3287	3508	811762.395	819358.787	旅人蕉	Ravenala madagascariensis	190	4	6	FELL	FELL	FELL	
3508	T3288	3508	811759.039	819358.441	旅人蕉	Ravenala madagascariensis	230	4	7	FELL	FELL	FELL	
3508	T3289	3508	811758.127	819358.081	旅人蕉	Ravenala madagascariensis	225	2	4	FELL	FELL	FELL	
3508 3508	T3290	3508 3508	811757.34 811757.98	819357.477 819356.907	旅人蕉 旅人蕉	Ravenala madagascariensis	170	3 4	6	FELL	FELL FELL	FELL FELL	
3508	T3291 T3292	3508	811759.728	819357.014	旅人蕉	Ravenala madagascariensis Ravenala madagascariensis	200	3	6	FELL	FELL	FELL	
3508	T3293	3508	811758.928	819356.538	旅人蕉	Ravenala madagascariensis	260	3	7	FELL	FELL	FELL	
3508	T3295	3508	811757.189	819356.424	旅人蕉	Ravenala madagascariensis	195	4	7	FELL	FELL	FELL	
3508	T3297	3508	811756.592	819355.333	旅人蕉	Ravenala madagascariensis	215	4	7	FELL	FELL	FELL	
3508 3508	T3298	3508 3508	811756.309 811758.065	819353.534 819353.885	旅人蕉	Ravenala madaqascariensis	205	2 4	7	FELL	FELL	FELL	
3508	T3299 T3300	3508	811759.003	819353.883	旅人蕉 旅人蕉	Ravenala madagascariensis Ravenala madagascariensis	210 260	4	7	FELL FELL	FELL FELL	FELL FELL	
3508	T3301	3508	811758.85	819353.072	旅人蕉	Ravenala madagascariensis	275	4	7	FELL	FELL	FELL	
3508	T3302	3508	811757.3	819352.962	旅人蕉	Ravenala madagascariensis	170	2	4	FELL	FELL	FELL	
3508	T3303	3508	811757.191	819352.096	旅人蕉	Ravenala madagascariensis	220	3	6	FELL	FELL	FELL	
3508	T3304	3508	811757.087	819351.718	旅人蕉	Ravenala madagascariensis	235	4	7	FELL	FELL	FELL	
3508 3508	T3305 T3306	3508 3508	811757.216 811756.398	819350.691 819350.596	旅人蕉 旅人蕉	Ravenala madagascariensis	170 195	2	5 7	FELL FELL	FELL FELL	FELL FELL	
3508	T3305	3508	811757.131	819350.006	旅人蕉	Ravenala madagascariensis Ravenala madagascariensis	175	3	- 6	FELL	FELL	FELL	
3508	T3308	3508	811757.886	819350.317	旅人蕉	Ravenala madagascariensis	230	4	7	FELL	FELL	FELL	
3508	T3309	3508	811757.174	819349.127	旅人蕉	Ravenala madagascariensis	215	4	7	FELL	FELL	FELL	
3508	T3310	3508	811756.203	819349.138	旅人蕉	Ravenala madagascariensis	165	2	4	FELL	FELL	FELL	
3508	T3311	3508	811756.135	819348.567	旅人蕉	Ravenala madaqascariensis	210	3	7	FELL	FELL	FELL	
3508 3508	T3312 T3313	3508 3508	811756.021 811755.943	819347.646 819346.761	旅人蕉 旅人蕉	Ravenala madagascariensis	185 230	2	7	FELL FELL	FELL FELL	FELL FELL	
3508	T3313 T3314	3508	811755.943	819345.761 819345.509	版入無 施人蕉	Ravenala madagascariensis Ravenala madagascariensis	230	4	6	FELL	FELL	FELL	
3508	T3315	3508	811756.436	819345.096	旅人蕉	Ravenala madagascariensis	190	4	6	FELL	FELL	FELL	
3508	T3316	3508	811757.139	819345.071	旅人蕉	Ravenala madagascariensis	225	4	7	FELL	FELL	FELL	
3508	T3317	3508	811755.759	819344.188	旅人蕉	Ravenala madagascariensis	160	2	4	FELL	FELL	FELL	
3508 3508	T3318	3508 3508	811755.53 811756.33	819343.109 819342.842	旅人蕉 旅人蕉	Ravenala madagascariensis	175	3	5 7	FELL	FELL	FELL	
3508	T3319 T3320	3508	811756.33	819342.842 819342.267	旅人蕉	Ravenala madagascariensis	210 240	4	7	FELL FELL	FELL FELL	FELL FELL	
3508	T3321	3508	811756.174	819341.593	旅人蕉	Ravenala madagascariensis Ravenala madagascariensis	240	4	6	FELL	FELL	FELL	
3508	T3322	3508	811755.457	819341.648	旅人蕉	Ravenala madagascariensis	225	4	7	FELL	FELL	FELL	
3508	T3323	3508	811755.869	819339.663	旅人蕉	Ravenala madaqascariensis	220	4	7	FELL	FELL	FELL	
3508	T3324	3508	811756.684	819338.653	旅人蕉	Ravenala madagascariensis	255	4	7	FELL	FELL	FELL	
3508 3508	T3325	3508 3508	811755.798 811754.877	819338.158 819336.811	旅人蕉	Ravenala madagascariensis	155	2	4	FELL	FELL	FELL	
3508	T3326 T3327	3508	811754.877	819335.811 819335.895	旅人蕉 旅人蕉	Ravenala madagascariensis Ravenala madagascariensis	225 190	4	7	FELL FELL	FELL FELL	FELL FELL	
3508	T3329	3508	811756.388	819336.699	旅人蕉	Ravenala madagascariensis	240	4	7	FELL	FELL	FELL	
3508	T3330	3508	811756.242	819335.482	旅人蕉	Ravenala madagascariensis	290	4	7	FELL	FELL	FELL	
3508	T3331	3508	811756.938	819334.873	旅人蕉	Ravenala madagascariensis	295	4	6	FELL	FELL	FELL	
3508	T3332	3508	811757.091	819335.5	旅人蕉	Ravenala madagascariensis	215	4	7	FELL	FELL	FELL	
3508 3508	T3333	3508 3508	811757.537 811757.404	819336.435 819337.117	旅人蕉 旅人蕉	Ravenala madagascariensis	250	4	7	FELL	FELL	FELL	
3508	T3334 T3335	3508	811757.6	819337.117	旅人蕉	Ravenala madaqascariensis Ravenala madaqascariensis	195 155	4	5 6	FELL FELL	FELL FELL	FELL FELL	
3508	T3336	3508	811758.023	819338.924	旅人蕉	Ravenala madagascariensis	270	4	7	FELL	FELL	FELL	
3508	T3337	3508	811758.152	819340.682	旅人蕉	Ravenala madagascariensis	170	2	5	FELL	FELL	FELL	
3508	T3338	3508	811758.257	819341.327	旅人蕉	Ravenala madagascariensis	135	3	6	FELL	FELL	FELL	
3508 3508	T3339 T3340	3508 3508	811758.517 811758.605	819343.514 819344.168	旅人蕉	Ravenala madagascariensis	205	4	7	FELL	FELL	FELL	
3508	T3341	3508	811757.826	819345.021	旅人蕉	Ravenala madagascariensis Ravenala madagascariensis	245 240	4	7	FELL FELL	FELL FELL	FELL FELL	
3508	T3343	3508	811758.711	819345.938	旅人蕉	Ravenala madagascariensis	200	4	7	FELL	FELL	FELL	
3508	T3344	3508	811759.072	819346.491	旅人蕉	Ravenala madagascariensis	225	5	7	FELL	FELL	FELL	
3508	T3345	3508	811757.945	819346.755	旅人蕉 旅人蕉	Ravenala madagascariensis	215	5	9	FELL	FELL	FELL	
3508 3508	T3346	3508 3508	811759.372 811760.149	819349.598 819349.718	版人蕉 旅人蕉	Ravenala madagascariensis	205	4	9	FELL	FELL	FELL	
3508	T3347 T3348	3508	811760.149	819349.718 819350.578	版入無 施人蕉	Ravenala madaqascariensis Ravenala madaqascariensis	210 220	4	8	FELL FELL	FELL FELL	FELL FELL	
3508	T3349	3508	811759.632	819351.472	旅人蕉	Ravenala madagascariensis	220	4	8	FELL	FELL	FELL	
3508	T3351	3508	811762.121	819353.723	旅人蕉	Ravenala madagascariensis	175	5	8	FELL	FELL	FELL	
3508	T3352	3508	811761.623	819354.983	旅人蕉	Ravenala madagascariensis	180	4	6	FELL	FELL	FELL	
3508 3508	T3354 T3359	3508 3508	811761.639 811764.302	819356.48 819356.455	旅人蕉 旅人蕉	Ravenala madagascariensis	300 180	5	7	FELL FELL	FELL FELL	FELL FELL	
3508	T3359 T3360	3508	811764.302 811763.732		旅人蕉	Ravenala madagascariensis Ravenala madagascariensis	180	4	7	FELL	FELL	FELL	
3508	T3362	3508	811763.889	819357.764	旅人蕉	Ravenala madagascariensis	215	5	9	FELL	FELL	FELL	
3508	T3363	3508	811759.15	819359.067	旅人蕉	Ravenala madagascariensis	205	5	8	FELL	MISSING	MISSING	
3508	T3365	3508	811760.324	819363.114	旅人蕉	Ravenala madagascariensis	230	4	6	FELL	FELL	FELL	
3508	T3366	3508	811761.428	819363.506	旅人蕉	Ravenala madagascariensis	230	3	5	FELL	FELL	FELL	
3508 3508	T3367 T3368	3508 3508	811763.679 811763.718	819359.981 819359.146	旅人蕉 旅人蕉	Ravenala madagascariensis	215 225	5	8	FELL	FELL FELL	FELL	
3508	T3368	3508	811764.646	819359.399	旅人蕉	Ravenala madaqascariensis Ravenala madagascariensis	240	5	9 8	FELL	FELL	FELL FELL	
3508	T3370	3508	811764.844	819360.38	旅人蕉	Ravenala madagascariensis	215	5	8	FELL	FELL	FELL	
3508	T3371	3508	811765.707	819358.939	旅人蕉	Ravenala madagascariensis	300	6	10	FELL	FELL	FELL	
3508	T3372	3508	811765.346	819357.231	旅人蕉	Ravenala madagascariensis	190	4	7	FELL	FELL	FELL	
3508	T3374	3508	811766.017	819358.613	旅人蕉	Ravenala madagascariensis	170	5	8	FELL	FELL	FELL	
3508 3508	T3375 T3376	3508 3508	811766.919 811766.847	819359.104 819359.968	旅人蕉 旅人蕉	Ravenala madagascariensis	150 180	1 4	4	FELL FELL	FELL FELL	FELL FELL	
3508	T3377	3508	811766.274	819360.745	旅人蕉	Ravenala madagascariensis Ravenala madagascariensis	215	4	8	FELL	FELL	FELL	
3508	T3378	3508	811767.684	819360.406	旅人蕉	Ravenala madagascariensis	260	5	8	FELL	MISSING	MISSING	
3508	T3381	3508	811768.397	819361.218	旅人蕉	Ravenala madagascariensis	255	5	8	FELL	FELL	FELL	
3508	T3382	3508	811768.024	819362.166	旅人蕉	Ravenala madagascariensis	235	5	8	FELL	FELL	FELL	
3508	T3383	3508	811769.153	819362.035	旅人蕉	Ravenala madagascariensis	220	5	8	FELL	FELL	FELL	
3508 3508	T3384	3508 3508	811770.043 811770.777	819361.481 819361.827	旅人蕉 旅人蕉	Ravenala madagascariensis	240	4	8	FELL	FELL FELL	FELL	
3508	T3385 T3386	3508	811770.777	819361.827	旅人蕉	Ravenala madagascariensis Ravenala madagascariensis	205 170	4	7	FELL FELL	FELL	FELL FELL	
	13300				UNA NAM	novenora modagascanensis	1 2/0	-		1 1 1 1 1	· ctt	I rate	I .

		Current Maintenance						Measurem	ent	Recommendation in LVP			
Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Latin Name	DBH	Crown Spread	Height	(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
							(mm)	(m)	(m)	(			
Exiting Works	Contracts						_	()					
3508	T3387	3508	811771.576	819363.64	旅人蕪	Ravenala madagascariensis	190	4	6	FELL	FELL	FELL	
3508	T3389	3508	811772.795	819363.644	旅人蕉	Ravenala madagascariensis	240	5	8	FELL	FELL	FELL	
3508	T3390	3508	811772.675	819365.467	旅人蕉	Ravenala madagascariensis	210	4	8	FELL	FELL	FELL	
3508 3508	T3391 T3392	3508 3508	811773.112 811774.552	819365.981 819366.576	旅人蕉 旅人蕉	Ravenala madagascariensis	180 225	4 5	9	FELL FELL	FELL FELL	FELL FELL	
3508	T3392	3508	811775.034	819365.948	旅人無	Ravenala madagascariensis	265	5	7	FELL	FELL	FELL	
3508	T3394	3508	811775.921	819365.872	施人蕉	Ravenala madagascariensis Ravenala madagascariensis	205	5	7	FELL	FELL	FELL	
3508	T3396	3508	811777.003	819366.688	旅人蕉	Ravenala madagascariensis	260	3	5	FELL	FFII	FELL	
3508	T3397	3508	811777.758	819367.55	旅人蕉	Ravenala madagascariensis	210	5	7	FELL	FELL	FELL	
3508	T3398	3508	811777.985	819367.917	旅人蕉	Ravenala madagascariensis	220	5	9	FELL	FELL	FELL	
3508	T3401	3508	811780.723	819368.723	旅人蕉	Ravenala madagascariensis	240	5	9	FELL	FELL	FELL	
3508	T3402	3508	811781.586	819368.578	旅人蕪	Ravenala madaqascariensis	275	5	9	FELL	FELL	FELL	
3508	T3403	3508	811782.707	819368.416	旅人蕉	Ravenala madaqascariensis	225	5	8	FELL	FELL	FELL	
3508	T3406	3508	811783.636	819368.51	旅人蕉	Ravenala madagascariensis	190	4	7	FELL	FELL	FELL	
3508	T3407	3508	811783.556	819368.971	旅人蕉	Ravenala madagascariensis	165	3	6	FELL	FELL	FELL	
3508	T01HK	N/A	811496.08	819846.25	細葉榕	Ficus microcarpa	150	7	6	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	Confirmed not locate within 3RS works area.
3508	T02HK	N/A	811510.247	819805.106	細葉榕	Ficus microcarpa	150	7	6	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	Confirmed not locate within 3RS works area.
3508 3508	T1230 T1231	N/A N/A	811955.808 811954.369	819463.969 819466.181	耳果相思 能人萑	Acacia auriculiformis	320 220	7	11	RETAIN RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	Confirmed not locate within 3RS works area.
3508		N/A	811954.369	819466.539	旅人無	Ravenala madagascariensis				RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	Confirmed not locate within 3RS works area.
3508	T1232 T1233	N/A	811953.809	819465.779	旅人無	Ravenala madagascariensis Ravenala madagascariensis	200 190	2	5 4	RETAIN	Not under 3RS contract works area  Not under 3RS contract works area	Not under 3RS contract works area Not under 3RS contract works area	Confirmed not locate within 3RS works area.  Confirmed not locate within 3RS works area.
3508	T1234	N/A	811952.497	819464.64	施人蕉	Ravenala madagascariensis	200	2	5	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	Confirmed not locate within 3RS works area.  Confirmed not locate within 3RS works area.
3508	T1234	N/A	811951.646	819464.563	施人蕉	Ravenala madagascariensis	200	2	5	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	Confirmed not locate within 3RS works area.
3508	T1335	3508	811947.14	819456.731	苦楝	Melia azedarach	150	5	7	RETAIN	REMOVED	REMOVED	Previously tagged as T1270B.
3508	T1242	N/A	811951.379	819463.411	旅人蕉	Ravenala madaqascariensis	220	2	5	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	Confirmed not locate within 3RS works area.
3508	T1243	N/A	811950.501	819463.08	旅人蕉	Ravenala madagascariensis	230	2	4	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	Confirmed not locate within 3RS works area.
3508	T1384	N/A	811485.55	820119.16	黃槿	Hibiscus tiliaceus	150	1	1	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	Confirmed not locate within 3RS works area.
3508	T1389	N/A	811489.72	820124.5	大葉相思	Acacia mangium	230	4	7	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	Confirmed not locate within 3RS works area.
3508	T1485A	N/A	811948.306	819398.649	旅人蕉	Ravenala madagascariensis	290	3	5	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	Confirmed not locate within 3RS works area.
3508	T1486	N/A	811958.015	819391.869	旅人蕉	Ravenala madagascariensis	285	3	5	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	Confirmed not locate within 3RS works area.
3508	T1487	N/A	811959.266	819392.679	旅人蕉	Ravenala madagascariensis	270	3	5	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	Confirmed not locate within 3RS works area.
3508	T1488	N/A	811960.148	819390.381	旅人蕉	Ravenala madagascariensis	185	3	5	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	Confirmed not locate within 3RS works area.
3508	T1489	N/A	811960.66	819389.932	旅人蕉	Ravenala madagascariensis	205	3	5	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	Confirmed not locate within 3RS works area.
3508	T1490	N/A	811963.219	819389.753	旅人蕉	Ravenala madagascariensis	250	3	5	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	Confirmed not locate within 3RS works area.
3508 3508	T2906	N/A 3508	811459.93 811627.673	820075.367 819443.421	台灣相思	Acacia confusa	180	3	8	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	Confirmed not locate within 3RS works area.
3508	T3038	3508	811627.673	819443.421 819443.742	更健 耳果相思	Hibiscus tiliaceus	140	5	5	FELL	FELL	FELL	
3508	T3038A T3038B	3508	811626.242	819440.901	耳果相思 耳果相思	Acacia auriculiformis Acacia auriculiformis	100 130	4	8	FELL FELL	FELL FELL	FELL FELL	
3508	T3038B	3508	811631.266	819438.686	中米伯心	Acacia auriculiformis Hibiscus tiliaceus	150	4	5	FELL	FELL	FELL	
					27.00								Transplanting was not recommended due to poor health condition and low amenity value. Felled in
3508	T3046	3508	811640.969	819395.303	王棕	Roystonea regia	225	2	6	TRANSPLANT	TO-BE-FELLED	FELL	Dec 2023.
2500		3508	811642.989	819389.785	Tio								Transplanting was not recommended due to poor health condition and low amenity value. Felled in
3508	T3047	3508	811642.989	819389.785	王棕	Roystonea regia	190	2	6	TRANSPLANT	TO-BE-FELLED	FELL	Dec 2023.
3508	T3048	3508	811644.918	819384.088	王棕	Roystonea regia	215	2	6	TRANSPLANT	TO-BE-FELLED	FELL	Transplanting was not recommended due to poor health condition and low amenity value. Felled in
	13040				-1. pr	noystoned regio	213	-		HOURSI DAVI	10 DE TELEES	1222	Dec 2023.
3508	T3049	3508	811645.891	819381.117	王棕	Roystonea regia	225	2	5	TRANSPLANT	TO-BE-FELLED	FELL	Transplanting was not recommended due to poor health condition and low amenity value. Felled in
						,							Dec 2023.
3508	T3050	3508	811646.859	819378.305	王棕	Roystonea regia	225	3	6	TRANSPLANT	TO-BE-FELLED	FELL	Transplanting was not recommended due to poor health condition and low amenity value. Felled in
													Dec 2023.  Transplanting was not recommended due to poor health condition and low amenity value. Felled in
3508	T3051	3508	811647.903	819375.532	王棕	Roystonea regia	240	2	6	TRANSPLANT	TO-BE-FELLED	FELL	Dec 2023.
													Transplanting was not recommended due to poor health condition and low amenity value. Felled in
3508	T3052	3508	811648.734	819372.619	王棕	Roystonea regia	250	2	7	TRANSPLANT	TO-BE-FELLED	FELL	Dec 2023.
													Transplanting was not recommended due to poor health condition and low amenity value. Felled in
3508	T3053	3508	811649.705	819369.908	王棕	Roystonea regia	205	2	6	TRANSPLANT	TO-BE-FELLED	FELL	Dec 2023.
3508	T3054	3508	811650.614	819366.797	王棕	Roystonea regia	180	2	7	TRANSPLANT	TO-BE-FELLED	FELL	Transplanting was not recommended due to poor health condition and low amenity value. Felled in
3308	15054	3308	811030.614	019300./9/	土水	Roystonea regia	180	Z		TRANSPLANT	TO-DE-PELLED	rett	Dec 2023.
3508	T3055	3508	811651.805	819364.094	王棕	Roystonea regia	250	2	7	TRANSPLANT	TO-BE-FELLED	FELL	Transplanting was not recommended due to poor health condition and low amenity value. Felled in
						<u> </u>							Dec 2023.
3508	T3056	N/A	811672.481	819340.2	鐵刀木	Senna siamea	165	6	9	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	Confirmed not locate within 3RS works area.
3508 3508	T3058	3508 N/A	811672.122 811668.864	819335.454 819333.681	鐵刀木	Senna siamea	130	4	9	RETAIN	MISSING	MISSING	Found missing during initial tree survey.
3508	T3059 T3063	N/A N/A	811668.864 811673.151	819333.681 819325.262	鐵刀木 椰子	Senna siamea	180 250	6 4	9 8	RETAIN RETAIN	Not under 3RS contract works area	Not under 3RS contract works area Not under 3RS contract works area	Confirmed not locate within 3RS works area.
3508	T3063 T3071	N/A 3508	811683.438	819325.262 819357.281	御士 棒	Cocos nucifera  Melia azedarach	250 215	6	10	RETAIN RETAIN	Not under 3RS contract works area MISSING	Not under 3RS contract works area MISSING	Confirmed not locate within 3RS works area.  Found missing during initial tree survey.
3508	T3072	3508	811688.035	819359.502	銀合數	Leucaena leucocephala	127	4	11	RETAIN	MISSING	MISSING	Found missing during initial tree survey.  Found missing during initial tree survey.
3508	T3077	3508	811681.578	819368.778	銀合數	Leucaena leucocephala	115	4	12	RETAIN	MISSING	MISSING	Found missing during initial tree survey.
3508	T3078	3508	811684.828	819371.903	鐵刀木	Senna siamea	155	6	10	RETAIN	MISSING	MISSING	Found missing during initial tree survey.
3508	T3086	3508	811679.779	819378.26	鐵刀木	Senna siamea	145	3	11	RETAIN	MISSING	MISSING	Found missing during initial tree survey.
3508	T3087	3508	811679.025	819379.406	銀合歡	Leucaena leucocephala	95	2	8	RETAIN	MISSING	MISSING	Found missing during initial tree survey.
3508	T3088	3508	811677.433	819380.142	銀合歡	Leucaena leucocephala	125	3	12	RETAIN	MISSING	MISSING	Found missing during initial tree survey.
3508	T3092	3508	811680.218	819381.979	鐵刀木	Senna siamea	100	2	10	RETAIN	MISSING	MISSING	Found missing during initial tree survey.
3508	T3095	3508	811677	819382.504	鐵刀木	Senna siamea	115	3	8	RETAIN	MISSING	MISSING	Found missing during initial tree survey.
3508	T3096	3508	811676.868	819384.848	銀合歡	Leucaena leucocephala	105	2	12	RETAIN	MISSING	MISSING	Found missing during initial tree survey.
3508	T3097	3508	811677.359	819385.563	銀合歡	Leucaena leucocephala	140	4	11	RETAIN	MISSING	MISSING	Found missing during initial tree survey.
3508	T3098	3508	811677.039	819385.685	鐵刀木	Senna siamea	150	3	12	RETAIN	MISSING	MISSING	Found missing during initial tree survey.
3508	T3099	3508	811675.495	819385.743	銀合歡	Leucaena leucocephala	155	5	12	RETAIN	MISSING	MISSING	Found missing during initial tree survey.
3508	T3100	3508	811674.909	819385.257	銀合歡	Leucaena leucocephala	200	5	11	RETAIN	MISSING	MISSING	Found missing during initial tree survey.
3508	T3101	3508	811676.369	819386.669	銀合歡	Leucaena leucocephala	130	6	11	RETAIN	MISSING	MISSING	Found missing during initial tree survey.
3508 3508	T3102	3508 3508	811684.955 811685.995	819383.808 819383.816	宮粉羊蹄甲 宮粉羊蹄甲	Bauhinia variegata	160	6	10	FELL	MISSING	MISSING	Found missing during initial tree survey.
3508	T3103 T3104	3508	811685.995 811688.003	819383.816 819384.188	宮粉羊蹄甲 宮粉羊蹄甲	Bauhinia variegata	100	6 4	8 7	FELL	MISSING MISSING	MISSING MISSING	Found missing during initial tree survey.  Found missing during initial tree survey.
3508	T3104 T3105	3508	811689.389	819384.188 819386.069	白切干部中	Bauhinia variegata Melia azedarach	100	6	8	FELL FELL	MISSING	MISSING	Found missing during initial tree survey.  Found missing during initial tree survey.
3508	T3105	3508	811690.401	819385.346	黄槿	Hibiscus tiliaceus	190	5	7	FELL	MISSING	MISSING	Found missing during initial tree survey.  Found missing during initial tree survey.
3508	T3107	3508	811691.349	819384.265	銀合數	Leucaena leucocephala	210	8	12	FELL	MISSING	MISSING	Found missing during initial tree survey.
3508	T3110	3508	811694.649	819381.586	大葉相思	Acacia mangium	160	3	7	FELL	MISSING	MISSING	Found missing during initial tree survey.
3508	T3111	3508	811695.983	819379.749	青樺	Hibiscus tiliaceus	165	4	6	FELL	MISSING	MISSING	Found missing during initial tree survey.
3508	T3113	3508	811692.051	819378.333	土蜜樹	Bridelia tomentosa	115			FELL	MISSING	MISSING	Found missing during initial tree survey.

		Current Maintenance					Tree	Measurem Crown	nent I	Recommendation in LVP			
Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Latin Name	DBH	Spread	Height	(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
							(mm)	(m)	(m)				
Exiting Works					TTM IDM								I
3508 3508	T3114 T3115	3508 3508	811695.144 811694.071	819375.722 819375.126	耳果相思 台灣相思	Acacia auriculiformis	140 110	3	7	FELL FELL	MISSING MISSING	MISSING MISSING	Found missing during initial tree survey.  Found missing during initial tree survey.
3508	T3115	3508	811694.071	819373.126	口海伯心 耳果相思	Acacia confusa	195	6	11	FELL	MISSING	MISSING	Found missing during initial tree survey.  Found missing during initial tree survey.
3508	T3117	3508	811695.56	819375.296	中本11小	Acacia auriculiformis Melia azedarach	140	3	10	FELL	MISSING	MISSING	Found missing during initial tree survey.
3508	T3118	3508	811701.285	819374.388	青樺	Hibiscus tiliaceus	275	10	10	FELL	MISSING	MISSING	Found missing during initial tree survey.
3508	T3119	3508	811703.535	819371.655	耳果相思	Acacia auriculiformis	150	3	8	FELL	MISSING	MISSING	Found missing during initial tree survey.
3508	T3120	3508	811704.365	819371.493	黄槿	Hibiscus tiliaceus	170	5	7	FELL	MISSING	MISSING	Found missing during initial tree survey.
3508	T3123	3508	811693.008	819375.143	台灣相思	Acacia confusa	105	3	10	FELL	MISSING	MISSING	Found missing during initial tree survey.
3508	T3125	3508	811687.507	819375.844	棟	Melia azedarach	150	6	11	FELL	MISSING	MISSING	Found missing during initial tree survey.
3508	T3126	3508	811693.996	819362.42	台灣相思	Acacia confusa	155	6	12	RETAIN	MISSING	MISSING	Found missing during initial tree survey.
3508 3508	T3127	3508 3508	811699.684	819365.162	耳果相思	Acacia auriculiformis	155	6	10	FELL	MISSING	MISSING	Found missing during initial tree survey.
3508	T3128	3508	811700.949 811709.744	819363.14 819364.448	宮粉羊蹄甲 宮粉羊蹄甲	Bauhinia variegata	110 105	- 6 - 4	8 8	FELL FELL	MISSING MISSING	MISSING MISSING	Found missing during initial tree survey.  Found missing during initial tree survey.
3508	T3131 T3134	3508	811709.744	819364.446	当初干坤中 棒	Bauhinia varieqata Melia azedarach	155	2	9	FELL	MISSING	MISSING	Found missing during initial tree survey.  Found missing during initial tree survey.
3508	T3135	3508	811705.019	819358.753	台灣相思	Acacia confusa	155	4	10	FELL	MISSING	MISSING	Found missing during initial tree survey.
3508	T3139	3508	811708.697	819347.185	耳果相思	Acacia auriculiformis	145	4	9	FELL	MISSING	MISSING	Found missing during initial tree survey.
3508	T3140	3508	811709.652	819346.057	耳果相思	Acacia auriculiformis	190	4	9	FELL	MISSING	MISSING	Found missing during initial tree survey.
3508	T3141	3508	811709.679	819346.706	耳果相思	Acacia auriculiformis	170	4	9	FELL	MISSING	MISSING	Found missing during initial tree survey.
3508	T3142	3508	811713.061	819347.842	耳果相思	Acacia auriculiformis	160	6	9	FELL	MISSING	MISSING	Found missing during initial tree survey.
3508	T3143	3508	811710.173	819342.518	銀合歡	Leucaena leucocephala	155	5	9	FELL	MISSING	MISSING	Found missing during initial tree survey.
3508	T3144	3508	811718.086	819346.121	垂葉榕	Ficus benjamina	150	4	7	FELL	MISSING	MISSING	Found missing during initial tree survey.
3508	T3145	3508	811717.295	819342.701	重葉榕	Ficus benjamina	180	4	7	FELL	MISSING	MISSING	Found missing during initial tree survey.
3508 3508	T3146	3508 3508	811716.764 811716.339	819339.153 819334.97	重葉榕 重葉榕	Ficus benjamina	175	4	7	FELL	MISSING	MISSING	Found missing during initial tree survey.
3508	T3147	3508 3508	811716.339 811716.607	819334.97 819331 385	亜維格 重葉榕	Ficus benjamina	150 190	5	6	FELL	MISSING MISSING	MISSING MISSING	Found missing during initial tree survey.  Found missing during initial tree survey.
3508	T3148 T3149	3508	811716.525	819327.908	並 新 主 主 慈	Ficus benjamina Ficus benjamina	165	5	6	FELL FELL	MISSING	MISSING	Found missing during initial tree survey.  Found missing during initial tree survey.
3508	T3153	3508	811714.424	819358.316	台灣相思	Acacia confusa	150	4	7	FELL	MISSING	MISSING	Found missing during initial tree survey.
3508	T3175	3508	811718.623	819384.506	大葉相思	Acacia mangium	180	1	1	FELL	FELL	FELL	Found felled by other during initial inspection from contractor.
3508	T3209	3508	811700.122	819363.654	宮粉羊蹄甲	Bauhinia variegata	180	8	6	FELL	MISSING	MISSING	Found missing during initial tree survey.
3508	T3220	3508	811703.234	819393.104	紅膠木	Lophostemon confertus	100	2	5	FELL	MISSING	MISSING	Found missing during initial tree survey.
3601	T0001	3601	810205.050	817199.955	耳果相思	Acacia auriculiformis	310	5	9	FELL	FELL	FELL	
3601	T0002	3601	810205.460	817196.267	木麻黄	Casuarina equisetifolia	110	2	8	FELL	FELL	FELL	
3601	T0003	3601 3601	810207.955	817197.940	木麻黄	Casuarina equisetifolia	280	5	10	FELL	FELL	FELL	
3601 3601	T0004 T0005	3601 3601	810218.344 810215.500	817194.593 817192.341	不願責 木麻黃	Casuarina equisetifolia	250 240	5	10	FELL	FELL	FELL	<u> </u>
3601	T0005 T0006	3601 3601	810215.500 810211.065	817192.341 817189.129	不願買 木麻蓄	Casuarina equisetifolia Casuarina equisetifolia	420	6	10	FELL FELL	FELL FELL	FELL FELL	
3601	T0007	3601	810211.065	817186.798	木麻黄	Casuarina equisetifolia	130	2	7	FELL	FELL	FELL	
3601	T0008	3601	810216.777	817184.108	木麻苗	Casuarina equisetifolia	100	2	5	FELL	FELL	FELL	
3601	T0009	3601	810212.385	817183.785	木麻黄	Casuarina equisetifolia	100	3	6	FELL	FELL	FELL	
3601	T0010	3601	810228.557	817186.359	木麻黄	Casuarina equisetifolia	200	4	7	FELL	FELL	FELL	
3601	T0011	3601	810232.458	817185.173	木麻黄	Casuarina equisetifolia	450	5	9	FELL	FELL	FELL	
3601	T0012	3601	810229.337	817189.036	木麻黄	Casuarina equisetifolia	400	7	12	FELL	FELL	FELL	
3601	T0013	3601	810230.999	817190.663	木麻黄	Casuarina equisetifolia	180	4	9	FELL	FELL	FELL	
3601	T0014	3601	810232.390	817192.459	木麻黄	Casuarina equisetifolia	160	4	9	FELL	FELL	FELL	
3602 3602	T0001	3602 3602	810186.657	817201.128	不願責 木麻黃	Casuarina equisetifolia	200	2	10 12	FELL	FELL FELL	FELL	
3602	T0002	3602	810186.868 810181.695	817199.781	不順興 木麻黃	Casuarina equisetifolia	290	1	2	FELL	FELL	FELL	
3602	T0010 T0011	3602	810180.477	817206.24 817207.006	小願異 台灣相思	Casuarina equisetifolia Acacia confusa	300 150	1	1	FELL FELL	FELL	FELL FELL	
3602	T0011	3602	810179.159	817207.006	台灣相思	Acacia confusa	130	5	7	FELL	FELL	FELL	
3602	T0013	3602	810177.179	817208.138	台灣相思	Acacia confusa	130	5	8	FELL	FELL	FELL	
3602	T0017	3602	810175.155	817196.108	台灣相思	Acacia confusa	170	7	10	FELL	FELL	FELL	
3602	T0024	3602	810169.093	817197.334	台灣相思	Acacia confusa	220	6	8	FELL	FELL	FELL	
3602	T0035	N/A	810156.643	817202.348	大葉相思	Acacia mangium Willd.	300	6	9	RETAIN	Excluded from the Project	Excluded from the Project	Confirmed not locate within 3RS works area.
3602	T0036	N/A	810155.517	817203.044	大葉相思	Acacia mangium Willd.	450	7	12	RETAIN	Excluded from the Project	Excluded from the Project	Confirmed not locate within 3RS works area.
3602	T0037	3602	810157.141	817206.661	湯福樹 遅棹樹	Litsea glutinosa	75	2	5	FELL	FELL	FELL	
3602 3602	T0039	3602 3602	810155.564	817205.236 817206.957	游陽樹 台灣相思	Litsea glutinosa	130	4	7	FELL	FELL FELL	FELL	
3603	T0045	3602	810154.491 810118.790	817206.957 817215.640	上海伯心 木麻苗	Acacia confusa	150 300	4	9	FELL	FELL	FELL FFII	
3603	T0001	3603	810118.790	817215.640 817216.590	不順更 木麻蓄	Casuarina equisetifolia Casuarina equisetifolia	160	2	12	FELL	FELL	FELL	
3603	T0003	3603	810119.670	817217.600	木麻黄	Casuarina equisetifolia	350	6	14	FELL	FELL	FELL	
3603	T0004	3603	810118.230	817217.370	木麻黄	Casuarina equisetifolia	280	4	14	FELL	FELL	FELL	
3603	T0005	3603	810118.250	817219.540	台灣相思	Acacia confusa	140	6	10	FELL	FELL	FELL	
3603	T0006	3603	810119.500	817219.490	台灣相思	Acacia confusa	100	4	8	FELL	FELL	FELL	
3603	T0007	3603	810120.780	817219.460	台灣相思	Acacia confusa	180	4	10	FELL	FELL	FELL	
3603	T0008	3603	810121.960	817219.460	台灣相思	Acacia confusa	320	5	12	FELL	FELL	FELL	
3603 3603	T0009 T0010	3603 3603	810122.800 810123.750	817220.530	台灣相思	Acacia confusa	220 240	4	10 10	FELL	FELL FELL	FELL	<del> </del>
3603	T0010 T0011	3603 3603	810123.750 810122.730	817223.180 817223.150	台灣相思	Acacia confusa Acacia confusa	100	2	6	FELL FELL	FELL	FELL FELL	
3603	T0011	3603	810121.750	817223.030	台灣相思	Acacia confusa	140	2	6	FELL	FELL	FELL	
3603	T0013	3603	810121.730	817223.070	台灣相思	Acacia confusa	110	2	6	FELL	FELL	FELL	
3603	T0014	3603	810119.880	817223.860	台灣相思	Acacia confusa	250	4	3	FELL	FELL	FELL	
3603	T0015	3603	810118.860	817223.720	台灣相思	Acacia confusa	95	2	3	FELL	FELL	FELL	
3603	T0016	3603	810116.600	817216.520	木麻黄	Casuarina equisetifolia	180	4	14	FELL	FELL	FELL	
3603	T0017	3603	810116.130	817215.340	木麻黄	Casuarina equisetifolia	240	2	9	FELL	FELL	FELL	
3603	T0018	3603	810114.700	817215.720	台灣相思	Acacia confusa	95	2	3	FELL	FELL	FELL	
3603	T0019	3603	810113.270	817216.170	台灣相思	Acacia confusa	130	4	8	FELL	FELL	FELL	
3603	T0020	3603	810111.820	817216.720	台灣相思	Acacia confusa	220	4	8	FELL	FELL	FELL	
3603 3603	T0021	3603	810110.220	817217.320	台灣相思	Acacia confusa	130	4	8	FELL	FELL	FELL	
	T0022 T0023	3603 3603	810108.500 810111.520	817218.010 817223.560	台灣相思	Acacia confusa	110 130	2	8	FELL	FELL FELL	FELL	
		3603 3603	810111.520 810112.6500	817223.560 817224.7300	不願責 木麻黃	Casuarina equisetifolia Casuarina equisetifolia	130	5	10	FELL FELL	FELL	FELL FFII	
3603			810112.6500	817224.7300	小順興 木麻蓄	Casuarina equisetifolia	190	4	5	FELL	FELL	FELL	
3603 3603	T0024	2602			<b>小原動</b>	Lasaarina equiseujolla	120			FELL			+
3603 3603 3603	T0025	3603 3603			木麻盖	Casuarina equisetifolia	100	A		EE) I	FFI1	peri .	
3603 3603 3603 3603	T0025 T0026	3603	810107.820	817226.460	木麻黄 木麻黄	Casuarina equisetifolia	100 120	2	8	FELL FFI I	FELL FELL	FELL	
3603 3603 3603	T0025					Casuarina equisetifolia Casuarina equisetifolia Casuarina equisetifolia	100 120 360		8 8 12	FELL FELL FELL	FELL FELL FELL	FELL FELL FELL	
3603 3603 3603 3603 3603	T0025 T0026 T0027	3603 3603	810107.820 810105.840	817226.460 817220.800	木麻黄	Casuarina equisetifolia Casuarina equisetifolia	120	2	8	FELL	FELL	FELL	

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		Current Maintenance						Measuren		Recommendation in LVP			
Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Latin Name	DBH	Spread	Height	(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
		- '					(mm)	(m)	(m)				
Exiting Works					1.000				_				
3603 3603	T0031 T0032	3603 3603	810101.200 810099.260	817222.690 817220.710	木麻黄 耳果相思	Casuarina equisetifolia Acacia auriculiformis	95 200	5	5 8	FELL FELL	FELL FELL	FELL FELL	
3603	T0032	3603	810099.260	817220.710	木麻蓄	Casuarina equisetifolia	120	4	8	FELL	FELL	FELL	
3603	T0034	3603	810093.510	817224.570	台灣相思	Acacia confusa	300	8	7	FELL	FELL	FELL	
3603	T0035	3603	810089.380	817223.780	朴樹	Celtis sinensis	120	3	7	FELL	FELL	FELL	
3603	T0036	3603	810087.450	817224.160	木麻黄	Casuarina equisetifolia	350	6	12	FELL	FELL	FELL	
3603 3603	T0037 T0038	3603 3603	810085.730 810083.860	817224.500 817224.980	木麻黄 木麻黄	Casuarina equisetifolia Casuarina eauisetifolia	220 140	4	12	FELL	FELL FELL	FELL	
3603	T0038	3603	810083.860	817224.980	木麻苗	Casuarina equisetifolia	95	2	3	FELL FELL	FELL	FELL FELL	
3603	T0040	3603	810084.300	817228.720	木麻黄	Casuarina equisetifolia	120	4	12	FELL	FELL	FELL	
3603	T0041	3603	810087.590	817227.180	木麻黄	Casuarina equisetifolia	140	4	8	FELL	FELL	FELL	
3603	T0042	3603	810088.640	817228.040	木麻黄	Casuarina equisetifolia	140	4	8	FELL	FELL	FELL	
3603	T0043	3603	810087.590	817228.760	木麻黄	Casuarina equisetifolia	200	5	14	FELL	FELL	FELL	
3603	T0044	3603	810089.840	817233.090	耳果相思 木麻蓋	Acacia auriculiformis	180	3 4	5	FELL	FELL	FELL	
3603 3603	T0045 T0046	3603 3603	810088.540 810087.270	817234.610 817235.070	木麻苗	Casuarina equisetifolia Casuarina equisetifolia	140 140	2	10	FELL FELL	FELL FELL	FELL FELL	
3603	T0047	3603	810085.680	817234.700	木麻黄	Casuarina equisetifolia	190	4	8	FELL	FELL	FELL	
3603	T0048	3603	810084.710	817235.790	木麻黄	Casuarina equisetifolia	180	4	10	FELL	FELL	FELL	
3603	T0049	3603	810083.440	817236.080	木麻黄	Casuarina equisetifolia	180	4	12	FELL	FELL	FELL	
3603	T0050	3603	810082.060	817235.100	台灣相思	Acacia confusa	100	4	5	FELL	FELL	FELL	
3603	T0051	3603	810080.580	817235.560	台灣相思	Acacia confusa	100	2	4	FELL	FELL	FELL	
3603 3603	T0052 T0053	3603 3603	810078.510 810078.540	817236.920 817233.440	台灣相思	Acacia confusa Acacia confusa	100 150	2	3 6	FELL	FELL FELL	FELL	
3603	T0053	3603	810078.540	817233.440 817232.670	台灣相思	Acacia confusa  Acacia confusa	220	4	8	FELL FELL	FELL	FELL FELL	
3603	T0055	3603	810077.090	817231.690	台灣相思	Acacia confusa	95	2	4	FELL	FELL	FELL	
3603	T0056	3603	810075.810	817232.260	台灣相思	Acacia confusa	140	4	7	FELL	FELL	FELL	
3603	T0057	3603	810077.380	817236.770	台灣相思	Acacia confusa	120	4	6	FELL	FELL	FELL	
3603	T0058	3603	810076.280	817236.780	台灣相思	Acacia confusa	95	2	4	FELL	FELL	FELL	
3603 3603	T0059 T0060	3603 3603	810075.310 810075.000	817237.510 817235.020	台灣相思 耳果相思	Acacia confusa Acacia auriculiformis	95 110	2	3 8	FELL	FELL FELL	FELL FELL	
3603	T0060	3603	810075.000	817235.020	木麻黄	Casuarina eauisetifolia	160	4	12	FELL FELL	FELL	FELL	
3603	T0062	3603	810074.200	817239.370	木麻黄	Casuarina equisetifolia	300	5	14	FELL	FELL	FELL	
3603	T0063	3603	810073.800	817239.730	木麻黄	Casuarina equisetifolia	180	4	12	FELL	FELL	FELL	
3603	T0064	3603	810072.440	817240.290	木麻黄	Casuarina equisetifolia	180	4	12	FELL	FELL	FELL	
3603	T0065	3603	810072.360	817239.080	木麻黄	Casuarina equisetifolia	180	4	10	FELL	FELL	FELL	
3603	T0066 T0067	3603	810070.180	817237.990	台灣相思	Acacia confusa	95	1	3	FELL	FELL FELL	FELL	
3603 3603	T0068	3603 3603	810069.040 810067.520	817237.080 817234.480	台灣相思	Acacia confusa Casuarina equisetifolia	95 140	4	12	FELL FELL	FELL	FELL FELL	
3603	T0069	3603	810067.320	817235.680	木麻黄	Casuarina equisetifolia	220	4	14	FELL	FELL	FELL	
3603	T0070	3603	810065.880	817234.540	木麻黄	Casuarina equisetifolia	220	4	14	FELL	FELL	FELL	
3728	T2	3728	810950.9776	817585.7448	銀合歡	Leucaena leucocephala	231	4	9	*	FELL	FELL	
3728	T3	3728	810943.5751	817597.863	桑樹	Morus alba	422	6	8		FELL	FELL	
3728 3728	T4 T5	3728 3728	810945.9721 810941.1552	817585.3292 817587.5835	銀合歡	Leucaena leucocephala	120 148	6 4	7 8	*	FELL FELL	FELL FELL	
3728	T6	3728	810941.1552 810933.7211	817586.5055	銀合歡	Leucaena leucocephala Leucaena leucocephala	120	3	8		FELL	FELL	
3728	T7	3728	810937.5229	817591.1759	銀合歡	Leucaena leucocephala	120	3	2	*	FELL	FELL	
3728	T8	3728	810936.8808	817595.2206	銀合歡	Leucaena leucocephala	130	4	8	*	FELL	FELL	
3728	Т9	3728	810930.2059	817592.6487	銀合歡	Leucaena leucocephala	125	4	6	*	FELL	FELL	
3728	T10	3728	810926.3525	817590.1991	銀合歡	Leucaena leucocephala	116	4	3	*	FELL	FELL	
3728 3728	T11 T12	3728 3728	810932.0438 810922.4458	817581.0358 817584.5594	銀合歡苦楝	Leucaena leucocephala	115 316	5 7	8 11	<u> </u>	FELL FELL	FELL FELL	
3728	T13	3728	810922.4438	817578.2439	銀合歡	Melia azedarach Leucaena leucocephala	354	9	11		FELL	FELL	
3728	T14	3728	810918.485	817579.8364	銀合歡	Leucaena leucocephala	171	6	9	*	FELL	FELL	
3728	T15	3728	810917.8134		銀合歡	Leucaena leucocephala	225	6	9	*	FELL	FELL	
3728	T16	3728	810917.5586	817573.5636	銀合歡	Leucaena leucocephala	110	3	7	*	FELL	FELL	
3728 3728	T17 T18	3728 3728	810914.599 810911.7809	817579.5789 817579.0712	銀合歡銀合歡	Leucaena leucocephala	130 115	2	4	*	FELL FELL	FELL	
3728	T18 T19	3728 3728	810911.7809 810907.9505	817579.0712 817578.5835	銀合歡	Leucaena leucocephala Leucaena leucocephala	210	1	2	· ·	FELL	FELL FFII	
3728	T20	3728	810885.4935	817576.2373	銀合歡	Leucaena leucocephala	302	6	8	*	FELL	FELL	
3728	T21	3728	810892.3586	817561.2137	銀合歡	Leucaena leucocephala	115	4	8	*	FELL	FELL	
3728	T22	3728	810891.9891	817552.3865	苦棟	Melia azedarach	430	9	12	*	FELL	FELL	
3728 3728	T23	3728 3728	810895.1096	817551.9523	苦楝 銀合歡	Melia azedarach	260 108	6	12	*	FELL FELL	FELL	
3728	T24 T25	3728 3728	810890.4506 810898.6919	817544.1072 817543.823	数古歌 銀合數	Leucaena leucocephala	108	4	8		FELL	FELL FELL	
3728	T26	3728	810894.559	817539.3592	苦棟	Leucaena leucocephala Melia azedarach	250	6	11	*	FELL	FELL	
3728	T27	3728	810901.9867	817539.7597	苦棟	Melia azedarach	128	4	9	*	FELL	FELL	
3728	T28	3728	810899.3525	817536.9166	苦楝	Melia azedarach	125	3	9	*	FELL	FELL	
3728	T29	3728	810899.4588	817531.8931	銀合歡	Leucaena leucocephala	112	5	9	*	FELL	FELL	
3728	T30	3728	810898.8224	817526.3778	銀合歡	Leucaena leucocephala	260	6	11	*	FELL	FELL	
3728 3728	T31 T32	3728 3728	810906.4992 810909.7422	817531.296 817536.112	古株 銀合歡	Melia azedarach Leucaena leucocephala	346 165	6	11 6	*	FELL FELL	FELL FELL	
3728	T33	3728	810909.7422	817533.9101	苦棟	Melia azedarach	152	3	11	*	FELL	FELL	
3728	T34	3728	810920.9981	817538.4257	苦楝	Melia azedarach	224	4	11	*	FELL	FELL	
3728	T35	3728	810910.791	817542.6334	銀合歡	Leucaena leucocephala	160	4	9	*	FELL	FELL	
3728	T36	3728	810927.2314	817538.213	苦棟	Melia azedarach	224	3	9	*	FELL	FELL	
3728 3728	T37	3728	810937.9227 810941.1474	817547.963 817545.1523	苦棟 苦棒	Melia azedarach	485	6 4	11	*	FELL	FELL	
3728 3728	T38 T39	3728 3728	810941.1474 810942.9451	817545.1523 817548.5522	古傑 銀合歡	Melia azedarach Leucaena leucocephala	280 181	3	10 7		FELL FELL	FELL FELL	
3728	T40	3728	810942.9451	817552.2427	死樹	Dead Tree	170	1	1		FELL	FELL	
3728	T41	3728	810942.5078	817560.8958	銀合歡	Leucaena leucocephala	200	2	9	*	FELL	FELL	
3728	T42	3728	810945.1225	817560.6361	銀合歡	Leucaena leucocephala	125	4	9	*	FELL	FELL	
3728	T43	3728	810947.353	817560.2992	銀合歡	Leucaena leucocephala	180	4	9	*	FELL	FELL	
3728	T44	3728	810951.2471	817564.1559	苦棟 銀合歙	Melia azedarach	195	4	8	*	FELL	FELL	
3728 3728	T45 T46	3728 3728	810952.7511 810951.5962	817560.8097 817547.2889	銀合歡	Leucaena leucocephala	155 112	4	7		FELL FELL	FELL FELL	
3728	T47	3728	810957.0422		銀合歡	Leucaena leucocephala Leucaena leucocephala	118	2	7		FELL	FELL	
3728	T48	3728	810962.6143		銀合歡	Leucaena leucocephala	105	2	7	*	FELL	FELL	
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			Tree Measurement										
		Current Maintenance						Crown		Recommendation in LVP			
Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Latin Name	DBH (mm)	Spread	Height (m)	(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
xiting Works (	Contracts						umnj	(m)	(111)				
3728	T49	3728	810960.1829	817562.4621	銀合歡	Leucaena leucocephala	140	5	6	*	FELL	FELL	
3728	T50	3728	810956.3763	817569.1987	銀合歡	Leucaena leucocephala	120	5	1	*	FELL	FELL	
3728	T51	3728	810953.9204	817570.7445	銀合歡	Leucaena leucocephala	120		8	*	FELL	FELL	
3728 3728	T52 T53	3728 3728	810951.6212 810934.5443	817567.9158 817572.5227	銀合歡苦楝	Leucaena leucocephala	120 150	4	8		FELL FELL	FELL FELL	
3728	T54	3728	810934.5445	817568.9962	銀合歡	Melia azedarach Leucaena leucocephala	128	4	2	*	FELL	FELL	
3728	T55	3728	810931.9406	817569.193	銀合歡	Leucaena leucocephala	190	5	8		FELL	FELL	
3728	T56	3728	810933.9416	817565.69	台灣相思	Acacia confusa	255	6	9	*	FELL	FELL	
3728	T57	3728	810929.9804	817551.5172	死樹 台灣相思	Dead Tree	635	6	1	*	FELL	FELL	
3728 3728	T58 T59	3728 3728	810925.6542 810927.8348	817553.3724 817546.2148	日海相志 銀合數	Acacia confusa	214 97	5	6 7	•	FELL	FELL	
3728	T60	3728	810924.0461	817549.1364	銀合數	Leucaena leucocephala Leucaena leucocephala	158	4	7	*	FELL	FELL FELL	
3728	T61	3728	810905.4531	817549.389	銀合歡	Leucaena leucocephala	191	9	8	*	FELL	FELL	
3728	T62	3728	810906.0465	817545.2812	銀合歡	Leucaena leucocephala	140	2	4	*	FELL	FELL	
3728	T63	3728	810919.6579	817559.2558	銀合歡	Leucaena leucocephala	105		8	*	FELL	FELL	
3728 3728	T64 T65	3728 3728	810928.297 810953.8519	817572.6426 817574.9112	銀合歡銀合歡	Leucaena leucocephala	159 140	8 2	4	•	FELL FELL	FELL FELL	
3728	T66	3728	810953.8519	817578.575	銀合數	Leucaena leucocephala Leucaena leucocephala	130	6	8	*	FFII	FELL	
3728	T67	3728	810948.0651	817581.1369	銀合歡	Leucaena leucocephala	177	6	7		FELL	FELL	
3728	T68	3728	810761.011	817525.228	銀合歡	Leucaena leucocephala	115	5	7	*	FELL	FELL	
3728	T69	3728	810756.935	817524.644	銀合歡	Leucaena leucocephala	145	6	7	*	FELL	FELL	<u> </u>
3728	T70	3728	810754.754	817524.141	銀合歡	Leucaena leucocephala	105	6	7	*	FELL	FELL	
3728 3728	T71 T72	3728 3728	810752.983 810749.067	817523.759 817522.550	銀合歡	Leucaena leucocephala	145 165	3 5	7	*	FELL FELL	FELL	
3728	T73	3728	810749.067	817522.550	銀合數	Leucaena leucocephala Leucaena leucocephala	185	5	7	•	FELL	FELL FELL	
3728	T74	3728	810745.409	817516.329	銀合歡	Leucaena leucocephala	125	5	6	*	FELL	FELL	
3728	T75	3728	810742.728	817515.565	銀合歡	Leucaena leucocephala	119	4	9	*	FELL	FELL	
3728	T76	3728	810739.095	817519.031	銀合歡	Leucaena leucocephala	100	4	6	*	FELL	FELL	
3728	T77	3728	810736.576	817518.080	苦楝 銀合歡	Melia azedarach	117	5	6	*	FELL	FELL	
3728 3728	T78 T79	3728 3728	810732.543 810728.804	817516.819 817515.445	銀合歡	Leucaena leucocephala	113 143	5	7	*	FELL FELL	FELL FELL	
3801	T1462	3508	810728.804	817515.445 820110.939	大葉相思	Leucaena leucocephala  Acacia mangium	290	7	12	FELL	REMOVED	REMOVED .	
3801	T1463	3508	811457.807	820109.919	大蘇相思	Acacia mangium	300	5	12	RETAIN	REMOVED	REMOVED	
3801	T1464	3508	811458.701	820109.731	台灣相思	Acacia confusa	120	5	10	RETAIN	REMOVED	REMOVED	
3801	T1466	3508	811461.003	820109.928	台灣相思	Acacia confusa	120	4	10	RETAIN	REMOVED	REMOVED	
3801	T1467	3508	811459.548	820109.118	台灣相思	Acacia confusa	170	5	8	RETAIN	REMOVED	REMOVED	
3801 3801	CT100	3801 3801	811708.059 811607.372	820136.975 820089.480	銀合歡 羊蹄甲屬	Leucaena leucocephala	170	8	12	FELL	FELL	FELL	
3801	CT1000 CT1001	3801	811607.372	820089.480 820089.670	主師中屬 紅膠木	Bauhinia spp.  Lophostemon confertus	130 170	6	9 10	FELL FELL	FELL FELL	FELL FELL	
3801	CT1001	3801	811609.506	820095.199	棟	Melia azedarach	300	9	13	FELL	FELL	FELL	
3801	CT1003	3801	811607.877	820095.079	羊蹄甲屬	Bauhinia spp.	110	4	6	FELL	FELL	FELL	
3801	CT1004	3801	811604.373	820092.891	台灣相思	Acacia confusa	200	7	11	FELL	FELL	FELL	
3801	CT1005	3801	811603.943	820091.949	台灣相思	Acacia confusa	160	5	11	FELL	FELL	FELL	
3801 3801	CT1006 CT1007	3801 3801	811603.128 811603.031	820090.076 820091.028	台灣相思 台灣相思	Acacia confusa  Acacia confusa	286 150	9	14 10	FELL FELL	FELL FELL	FELL FELL	
3801	CT1007	3801	811600.940	820091.028	台灣相思	Acacia confusa	140	5	11	FELL	FELL	FELL	
3801	CT1009	3801	811601.456	820091.886	台灣相思	Acacia confusa	110	5	11	FELL	FELL	FELL	
3801	CT101	3801	811709.156	820139.805	銀合歡	Leucaena leucocephala	130	6	11	FELL	FELL	FELL	
3801	CT1010	3801	811600.653	820092.141	台灣相思	Acacia confusa	110	4	10	FELL	FELL	FELL	
3801	CT1011	3801 3801	811601.135	820093.077 820095.769	台灣相思	Acacia confusa	240	7	12	FELL	FELL	FELL	
3801 3801	CT1012 CT1013	3801 3801	811601.878 811599.434	820095.769 820095.420	黃槿 大葉相思	Hibiscus tiliaceus	225 190	8 5	9	FELL FELL	FELL FELL	FELL FELL	
3801	CT1013	3801	811598.990	820091.664	大無怕心 羊蹄甲屬	Acacia mangium Bauhinia spp.	270	7	11	FELL	FELL	FELL	
3801	CT1014	3801	811595.349	820090.995	大葉相思	Acacia mangium	220	6	13	FELL	FELL	FELL	
3801	CT1016	3801	811593.924	820091.210	大葉相思	Acacia mangium	220	5	10	FELL	FELL	FELL	
3801	CT1017	3801	811594.438	820091.634	大葉相思	Acacia mangium	270	6	12	FELL	FELL	FELL	
3801 3801	CT1018 CT1019	3801 3801	811594.056 811594.678	820092.363 820094.767	大葉相思 台灣相思	Acacia mangium	250 160	6	12 11	FELL	FELL	FELL	
3801	CT1019 CT102	3801 3801	811594.678 811704.726	820094.767 820142.180	台灣相思	Acacia confusa Acacia confusa	150	6	10	FELL FELL	FELL FELL	FELL FELL	
3801	CT1020	3801	811593.529	820095.048	台灣相思	Acacia confusa	100	5	6	FELL	FELL	FELL	
3801	CT1021	3801	811592.600	820095.118	台灣相思	Acacia confusa	110	6	8	FELL	FELL	FELL	
3801	CT1022	3801	811591.996	820093.947	台灣相思	Acacia confusa	130	6	6	FELL	FELL	FELL	·
3801	CT1023	3801	811591.141	820093.820	台灣相思	Acacia confusa	200	7	11	FELL	FELL	FELL	
3801 3801	CT1024	3801 3801	811590.773 811587.510	820092.600 820091.877	台灣相思	Acacia confusa	140	6 7	8	FELL FFI I	FELL FFII	FELL FFII	
3801	CT1025 CT1026	3801 3801	811587.510 811586.993	820091.877 820091.341	台灣相思	Melia azedarach Acacia confusa	330 130	7	12 6	FELL FELL	FELL	FELL FELL	
3801	CT1026	3801	811585.559	820091.341	台灣相思	Acacia confusa	320	8	11	FELL	FELL	FELL	
3801	CT1028	3801	811585.686	820092.992	大葉相思	Acacia mangium	270	7	12	FELL	FELL	FELL	
3801	CT1029	3801	811585.350	820094.412	大葉相思	Acacia mangium	260	6	10	FELL	FELL	FELL	
3801	CT103	3801	811702.715	820142.816	台灣相思	Acacia confusa	140	7	12	FELL	FELL	FELL	
3801 3801	CT1030	3801 3801	811583.754 811583.108	820092.969 820096.896	棟 台灣相思	Melia azedarach	210	6 4	11 5	FELL	FELL FELL	FELL	
3801	CT1031 CT1032	3801 3801	811583.108 811581.253	820096.896 820091.932	台灣相思 紅膠木	Acacia confusa Lophostemon confertus	120 180	5	10	FELL FELL	FELL FELL	FELL FELL	
3801	CT1032 CT1033	3801	811580.528	820091.932	大葉相思	Acacia mangium	100	4	8	FELL	FELL	FELL	
3801	CT1033	3801	811577.009	820091.211	羊蹄甲屬	Bauhinia spp.	100	6	6	FELL	FELL	FELL	
3801	CT1035	3801	811576.435	820092.461	台灣相思	Acacia confusa	150	7	6	FELL	FELL	FELL	
3801	CT1036	3801	811575.761	820090.461	羊蹄甲屬	Bauhinia spp.	170	9	11	FELL	FELL	FELL	
3801	CT1037	3801 3801	811576.526	820093.358	大葉相思	Acacia mangium	280	9	11	FELL	FELL	FELL	
3801 3801	CT1038	3801 3801	811575.973 811575.124	820093.172 820093.899	台灣相思 台灣相思	Acacia confusa	110	7	7	FELL	FELL FELL	FELL FELL	
3801	CT1039 CT104	3801	811701.026	820093.899 820144.182	台灣相思	Acacia confusa  Acacia confusa	110 120	7	8	FELL FELL	FELL	FELL	
3801	CT1040	3801	811574.214	820093.757	台灣相思	Acacia confusa	205	6	11	FELL	FELL	FELL	
3801	CT1041	3801	811574.478	820092.307	台灣相思	Acacia confusa	150	6	8	FELL	FELL	FELL	
	CT1042	3801	811573.330	820091.987	台灣相思	Acacia confusa	130	5	8	FELL	FELL	FELL	
3801		3801	811572.789	820095.282	紅膠木	Lophostemon confertus	100	3	5	FELL	FELL	FELL	·
3801	CT1043												
	CT1043 CT1044 CT1045	3801 3801 3801	811571.245 811568.545	820095.114	紅膠木	Lophostemon confertus  Melia azedarach	195	5 10	12	FELL FELL	FELL FELL	FELL FELL	

		Current Maintenance						Measurem Crown		Recommendation in LVP			
Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Latin Name	DBH (mm)	Spread	Height (m)	(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
wikina Manha Ca							(111111)	(m)	(111)				
xiting Works Co	CT1046	3801	811566.727	820093.252	紅膠木	Lophostemon confertus	230	5	10	FELL	FELL	FELL	
3801	CT1047	3801	811568.953	820091.315	楝	Melia azedarach	160	7	11	FELL	FELL	FELL	
3801	CT1048	3801	811568.353	820091.045	紅膠木	Lophostemon confertus	110	4	10	FELL	FELL	FELL	
3801 3801	CT1049	3801 3801	811567.019 811699.745	820089.853 820145.874	死樹 台灣相思	Dead tree	100	2	6	FELL	FELL	FELL	
3801	CT105 CT1050	3801	811599.745	820145.874 820091.444	台灣相思 羊蹄甲屬	Acacia confusa Bauhinia spp.	110 130	6	10 10	FELL FELL	FELL FELL	FELL FELL	
3801	CT1050	3801	811565.009	820089.141	大葉相思	Acacia mangium	180	4	11	FELL	FELL	FELL	
3801	CT1052	3801	811564.049	820090.051	羊蹄甲屬	Bauhinia spp.	190	6	11	FELL	FELL	FELL	
3801	CT1053	3801	811563.228	820088.533	台灣相思	Acacia confusa	160	5	10	FELL	FELL	FELL	
3801 3801	CT1054	3801 3801	811562.323 811561.331	820088.771 820088.018	台灣相思	Acacia confusa	190	6	9	FELL	FELL FELL	FELL	
3801	CT1055 CT1056	3801	811561.552	820087.052	台灣相思	Acacia confusa Acacia confusa	120 120	3	10	FELL FELL	FELL	FELL FELL	
3801	CT1057	3801	811564.132	820087.086	台灣相思	Acacia confusa	160	6	10	FELL	FELL	FELL	
3801	CT1058	3801	811561.629	820085.749	台灣相思	Acacia confusa	150	5	11	FELL	FELL	FELL	
3801	CT1059	3801	811559.710	820086.199	黄槿	Hibiscus tiliaceus	180	4	8	FELL	FELL	FELL	
3801 3801	CT106 CT1060	3801 3801	811699.102 811560.023	820145.128 820085.072	台灣相思 黃槿	Acacia confusa Hibiscus tiliaceus	100 180	5	9	FELL FELL	FELL FELL	FELL FELL	
3801	CT1060	3801	811559.064	820085.206	青篠	Hibiscus tiliaceus	180	6	10	FELL	FELL	FELL	
3801	CT1062	3801	811559.525	820084.247	黄槿	Hibiscus tiliaceus	130	5	10	FELL	FELL	FELL	
3801	CT1063	3801	811559.921	820084.002	黄槿	Hibiscus tiliaceus	150	5	11	FELL	FELL	FELL	
3801	CT1064	3801	811559.676	820083.576	死樹	Dead tree	190	4	10	FELL	FELL	FELL	
3801 3801	CT1065	3801 3801	811557.779 811559.947	820082.453 820081.485	紅膠木 羊蹄甲屬	Lophostemon confertus	130	4 8	10	FELL	FELL	FELL	
3801	CT1066 CT1067	3801	811559.947	820081.485 820080.298	主師中屬 羊蹄甲屬	Bauhinia spp. Bauhinia spp.	180 110	6	10 6	FELL FELL	FELL FELL	FELL FELL	
3801	CT1068	3801	811559.103	820079.650	死樹	Dead tree	110	5	7	FELL	FELL	FELL	
3801	CT1069	3801	811557.033	820074.486	大葉合歡	Albizia lebbeck	150	5	6	FELL	FELL	FELL	
3801	CT107	3801	811699.198	820146.775	台灣相思	Acacia confusa	130	7	10	FELL	FELL	FELL	
3801 3801	CT1070 CT1071	3801 3801	811555.169 811555.400	820069.753 820068.590	黄槿 黄槿	Hibiscus tiliaceus Hibiscus tiliaceus	110 110	7	6	FELL	FELL FELL	FELL FELL	
3801	CT1071	3801	811555.341	820068.535	<b>男俚</b> 菩權	Hibiscus tiliaceus	100	4	8	FELL	FELL	FELL	
3801	CT1072	3801	811553.969	820067.809	黃槿	Hibiscus tiliaceus	160	4	7	FELL	FELL	FELL	
3801	CT1074	3801	811551.642	820068.428	羊蹄甲屬	Bauhinia spp.	130	3	6	FELL	FELL	FELL	
3801	CT1075	3801	811550.499	820068.186	羊蹄甲屬	Bauhinia spp.	110	3	6	FELL	FELL	FELL	
3801 3801	CT1076 CT1077	3801 3801	811552.339 811551.714	820064.925 820064.022	黃槿 黃槿	Hibiscus tiliaceus	180	5	7	FELL FELL	FELL FELL	FELL	
3801	CT1077	3801	811551.714	820064.022	<b>男性</b> 蓄權	Hibiscus tiliaceus Hibiscus tiliaceus	120	5	7	FELL	FELL	FELL	
3801	CT1079	3801	811553.933	820064.056	黄槿	Hibiscus tiliaceus	230	7	10	FELL	FELL	FELL	
3801	CT108	3801	811695.784	820145.940	銀合歡	Leucaena leucocephala	122	7	11	FELL	FELL	FELL	
3801	CT1080	3801	811553.922	820063.035	黃槿	Hibiscus tiliaceus	170	10	10	FELL	FELL	FELL	
3801 3801	CT1081 CT1082	3801 3801	811553.631 811552.391	820062.288 820062.737	黃槿 蓄槿	Hibiscus tiliaceus	170 150	7	10	FELL FELL	FELL FELL	FELL FELL	
3801	CT1082 CT1083	3801	811552.591	820062.737	台灣相思	Hibiscus tiliaceus Acacia confusa	150	5	10	FELL	FELL	FELL	
3801	CT1084	3801	811551.307	820062.904	黄槿	Hibiscus tiliaceus	130	5	9	FELL	FELL	FELL	
3801	CT1085	3801	811549.398	820063.355	黃槿	Hibiscus tiliaceus	140	6	8	FELL	FELL	FELL	
3801	CT1086	3801	811549.346	820064.416	羊蹄甲屬	Bauhinia spp.	100	5	6	FELL	FELL	FELL	
3801 3801	CT1087	3801 3801	811555.660 811548.880	820057.850 820057.057	羊蹄甲屬	Bauhinia spp.	120	6	7	FELL	FELL	FELL	
3801	CT1088 CT1089	3801	811548.236	820055.579	台灣相思 黃槿	Acacia confusa Hibiscus tiliaceus	150 130	7	10 9	FELL FELL	FELL FELL	FELL FELL	
3801	CT109	3801	811705.843		台灣相思	Acacia confusa	120	9	8	FELL	FELL	FELL	
3801	CT1090	3801	811547.480	820056.281	黃槿	Hibiscus tiliaceus	220	9	8	FELL	FELL	FELL	
3801 3801	CT1091	3801 3801	811547.944 811547.965	820054.095 820053.037	黄槿	Hibiscus tiliaceus	130	6	9	FELL	FELL	FELL	
3801	CT1092 CT1093	3801 3801	811547.965 811546.709	820053.037 820054.670	黄槿 黄槿	Hibiscus tiliaceus Hibiscus tiliaceus	170 120	6	9	FELL FELL	FELL FELL	FELL FELL	
3801	CT1093	3801	811545.351	820054.741	黄槿	Hibiscus tiliaceus	180	8	8	FELL	FELL	FELL	
3801	CT1095	3801	811544.148	820054.496	黃槿	Hibiscus tiliaceus	270	10	9	FELL	FELL	FELL	
3801	CT1096	3801	811545.917	820053.257	黄槿	Hibiscus tiliaceus	120	4	5	FELL	FELL	FELL	
3801 3801	CT1097 CT1098	3801 3801	811549.236 811549.193	820052.378 820051.175	台灣相思 蓄花來竹林	Acacia confusa Thauatia paraniana	190 110	5	10 5	FELL	FELL FFI I	FELL FFII	
3801	CT1098 CT1099	3801 3801	811549.193 811551.200	820051.175 820051.622	英化灰竹桃 台灣相思	Thevetia peruviana Acacia confusa	110	- 4	9	FELL	FELL FELL	FELL	
3801	CT11099	3801	811706.547	820131.022	台灣相思	Acacia confusa	140	6	6	FELL	FELL	FELL	
3801	CT1100	3801	811554.902	820054.938	羊蹄甲屬	Bauhinia spp.	190	7	9	FELL	FELL	FELL	
3801	CT1101	3801	811551.836	820050.553	台灣相思	Acacia confusa	190	4	7	FELL	FELL	FELL	
3801 3801	CT1102	3801 3801	811551.922 811559.421	820049.473 820044.326	台灣相思 羊蹄甲屬	Acacia confusa	170	5	6	FELL	FELL	FELL	
3801	CT1103 CT1104	3801 3801	811559.421 811559.250	820044.326 820046.366	手蹄中屬 棒	Bauhinia spp. Melia azedarach	220 600	6 10	8 13	FELL FELL	FELL FELL	FELL FELL	
3801	CT1104 CT1105	3801	811565.195	820043.652	大葉相思	Acacia mangium	290	8	13	FELL	FELL	FELL	
3801	CT1106	3801	811566.393	820042.044	黃槿	Hibiscus tiliaceus	290	8	10	FELL	FELL	FELL	
3801	CT1107	3801	811567.495	820042.292	黄槿	Hibiscus tiliaceus	130	7	7	FELL	FELL	FELL	
3801	CT1108	3801	811568.062	820041.905	黄槿	Hibiscus tiliaceus	150	5	11	FELL	FELL	FELL	
3801 3801	CT1109 CT111	3801 3801	811568.775 811710.312	820041.524 820144.229	黄槿 銀合歡	Hibiscus tiliaceus Leucaena leucocephala	150 120	6	10 14	FELL FELL	FELL FELL	FELL FELL	
3801	CT1110	3801	811571.069	820040.143	斑口軟 台灣相思	Acacia confusa	260	8	15	FELL	FELL	FELL	
3801	CT1111	3801	811571.879	820039.158	台灣相思	Acacia confusa	150	4	5	FELL	FELL	FELL	
3801	CT1112	3801	811572.832	820038.796	台灣相思	Acacia confusa	180	7	7	FELL	FELL	FELL	
3801	CT1113	3801 3801	811574.389 811575.194	820038.694	羊蹄甲屬	Bauhinia spp.	120	6	7	FELL	FELL	FELL	
3801 3801	CT1114 CT1115	3801 3801	811575.194 811576.128	820037.855 820037.145	大葉相思 大葉相思	Acacia mangium Acacia mangium	240 300	6	15 15	FELL FELL	FELL FELL	FELL FELL	
3801	CT1115	3801	811576.837	820037.143	大葉相思	Acacia mangium Acacia mangium	180	4	14	FELL	FELL	FELL	
3801	CT1117	3801	811578.856	820036.349	大葉相思	Acacia mangium	350	10	15	FELL	FELL	FELL	
3801	CT1118	3801	811581.254	820035.240	大葉相思	Acacia mangium	320	6	12	FELL	FELL	FELL	
3801	CT1119	3801	811581.266	820034.378	台灣相思	Acacia confusa	140	6	7	FELL	FELL	FELL	
3801 3801	CT112	3801 3801	811709.264 811582.400	820144.397 820034.075	銀合歡	Leucaena leucocephala	130	7	13	FELL	FELL	FELL	
3801	CT1120 CT1121	3801 3801	811582.400 811585.549	820034.075 820033.011	台灣相思	Acacia confusa Acacia confusa	120 180	5 7	5	FELL FELL	FELL FELL	FELL FELL	
3801	CT1121	3801	811586.315	820032.910	台灣相思	Acacia confusa	130	4	10	FELL	FELL	FELL	
	CT1123	3801	811587.468	820033.300	台灣相思	Acacia confusa	150	5	10	FELL	FELL	FELL	
3801 3801	CT1124	3801	811587.897	820032.460	台灣相思	Acacia confusa	260	7	14	FELL	FELL	FELL	

		Current Maintenance					Tree	Measuren Crown	nent	Recommendation in LVP			
Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Latin Name	DBH	Spread	Height	(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
		J,					(mm)	(m)	(m)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Exiting Works													
3801 3801	CT1125	3801 3801	811593.367 811594.803	820031.377 820030.913	台灣相思	Acacia confusa	160	7	7 8	FELL FELL	FELL	FELL FELL	
3801	CT1126 CT1127	3801 3801	811594.803 811598.796	820030.913 820029.958	台灣相思 大葉相思	Acacia confusa Acacia mangium	200 310	8	14	FELL	FELL FELL	FELL	
3801	CT1127	3801	811599.528	820029.759	大葉相思	Acacia mangium	250	7	12	FELL	FELL	FELL	
3801	CT1129	3801	811608.477	820029.014	濕地松	Pinus elliottii	100	3	5	FELL	FELL	FELL	
3801	CT113	3801	811709.039	820146.496	台灣相思	Acacia confusa	130	7	9	FELL	FELL	FELL	
3801	CT1130	3801	811609.126	820028.329	濕地松	Pinus elliottii	140	4	10	FELL	FELL	FELL	
3801	CT1131	3801	811616.238	820030.840	台灣相思	Acacia confusa	140	7	7	FELL	FELL	FELL	
3801	CT1132	3801	811616.308	820031.851	台灣相思	Acacia confusa	190	6	10	FELL	FELL	FELL	
3801	CT1133	3801	811615.852	820033.203	台灣相思	Acacia confusa	220	8	13	FELL	FELL	FELL	
3801	CT1134	3801 3801	811616.563	820034.090	台灣相思	Acacia confusa	240	8	15	FELL	FELL	FELL	
3801 3801	CT1135	3801 3801	811617.394 811618.703	820032.983 820033.940	台灣相思 台灣相思	Acacia confusa	170 130	4	11	FELL	FELL	FELL FELL	
3801	CT1136 CT1137	3801	811618.532	820033.940	台灣相思	Acacia confusa Acacia confusa	240	7	15	FELL FELL	FELL FELL	FELL	
3801	CT1137	3801	811618.342	820030.837	死樹	Dead tree	140	5	8	FELL	FELL	FELL	
3801	CT1139	3801	811623.664	820032.115	黃槿	Hibiscus tiliaceus	100	4	6	FELL	FELL	FELL	
3801	CT114	3801	811707.566	820147.036	台灣相思	Acacia confusa	120	6	8	FELL	FELL	FELL	
3801	CT1141	3801	811626.059	820031.226	楝	Melia azedarach	350	10	16	FELL	FELL	FELL	
3801	CT1142	3801	811619.670	820038.156	大葉相思	Acacia mangium	154	4	9	FELL	FELL	FELL	
3801	CT1143	3801	811620.477	820039.727	大葉相思 大葉相思	Acacia mangium	250	4	15	FELL	FELL	FELL	
3801 3801	CT1144 CT1145	3801 3801	811621.862 811621.406	820039.024 820040.377	大薬相思	Acacia mangium	110 140	3	7	FELL FELL	FELL FELL	FELL FELL	
3801	CT1145 CT1146	3801	811621.406 811621.669	820040.377 820040.969	大薬相思	Acacia mangium	220	4	14	FELL	FELL	FELL	
3801	CT1146 CT1149	3801	811621.009	820040.969	人無怕芯 台灣相思	Acacia mangium Acacia confusa	370	7	11	FELL	FELL	FELL	
3801	CT1145	3801	811707.393	820147.792	台灣相思	Acacia confusa	120	9	6	FELL	FELL	FELL	
3801	CT1152	3801	811618.639	820047.981	羊蹄甲屬	Bauhinia spp.	110	5	7	FELL	FELL	FELL	
3801	CT1154	3801	811622.603	820042.126	楝	Melia azedarach	270	8	16	FELL	FELL	FELL	
3801	CT1155	3801	811624.929	820047.806	楝	Melia azedarach	350	7	16	FELL	FELL	FELL	
3801	CT1156	3801	811626.882	820047.854	大葉相思	Acacia mangium	200	4	15	FELL	FELL	FELL	
3801	CT1157	3801	811627.734	820047.406	大葉相思	Acacia mangium	210	4	15	FELL	FELL	FELL	
3801 3801	CT1158 CT116	3801 3801	811625.486 811706.347	820032.298 820149.170	大葉相思 台灣相思	Acacia mangium	200	8	15 8	FELL	FELL FELL	FELL FELL	
3801	CT1164	3801	811/06.347	820149.170 820041.410	台灣相思 大葉相思	Acacia confusa Acacia mangium	560	8 8	15	FELL FELL	FELL	FELL	
3801	CT1164	3801	811634.854	820043.787	台灣相思	Acacia confusa	100	4	15	FELL	FELL	FELL	
3801	CT1166	3801	811634.853	820045.135	台灣相思	Acacia confusa	260	5	15	FELL	FELL	FELL	
3801	CT1167	3801	811635.727	820044.693	台灣相思	Acacia confusa	200	4	15	FELL	FELL	FELL	
3801	CT1168	3801	811637.726	820042.463	台灣相思	Acacia confusa	220	8	15	FELL	FELL	FELL	
3801	CT1169	3801	811638.538	820042.044	台灣相思	Acacia confusa	190	6	15	FELL	FELL	FELL	
3801	CT117	3801	811707.663	820148.779	楝	Melia azedarach	110	5	9	FELL	FELL	FELL	
3801	CT1170	3801	811640.857	820047.005	棟	Melia azedarach	260	5	16	FELL	FELL	FELL	
3801 3801	CT1172	3801 3801	811635.452 811643.340	820050.197 820044.909	大葉相思	Acacia mangium	170	5	13	FELL	FELL	FELL	
3801	CT1174 CT1175	3801	811643.340	820044.909 820048.671	大葉相思	Melia azedarach	120 180	3	10 16	FELL FELL	FELL FELL	FELL FELL	
3801	CT1175	3801	811646.197	820048.819	大葉相思	Acacia mangium Acacia mangium	150	3	15	FELL	FELL	FELL	
3801	CT1177	3801	811647.399	820049.684	大葉相思	Acacia mangium	210	4	16	FELL	FELL	FELL	
3801	CT1178	3801	811646.640	820049.654	大葉相思	Acacia mangium	140	4	15	FELL	FELL	FELL	
3801	CT1179	3801	811645.758	820050.287	大葉相思	Acacia mangium	180	4	15	FELL	FELL	FELL	
3801	CT118	3801	811705.761	820150.826	銀合歡	Leucaena leucocephala	150	6	12	FELL	FELL	FELL	
3801	CT1180	3801	811645.450	820049.221	大葉相思	Acacia mangium	210	4	16	FELL	FELL	FELL	
3801	CT1181	3801	811643.271	820050.480	大葉相思	Acacia mangium	230	6	15	FELL	FELL	FELL	
3801 3801	CT1183	3801 3801	811643.274 811642.496	820052.950 820053.529	大葉相思 大葉相思	Acacia mangium	200 140	4	15	FELL	FELL	FELL FFII	
3801	CT1184	3801	811642.496 811645.629	820053.529 820052.199	大薬相思	Acacia mangium		5	15	FELL FELL	FELL FELL	FELL	
3801	CT1185 CT1186	3801	811645.629	820052.199 820053.883	大薬相忠 台灣相思	Acacia mangium Acacia confusa	230 120	4	16 9	FELL	FELL	FELL	
3801	CT1187	3801	811650.231	820052.131	紅膠木	Lophostemon confertus	110	4	9	FELL	FELL	FELL	
3801	CT1188	3801	811651.140	820053.474	台灣相思	Acacia confusa	170	5	14	FELL	FELL	FELL	
3801	CT1189	3801	811649.912	820055.087	台灣相思	Acacia confusa	110	3	13	FELL	FELL	FELL	
3801	CT119	3801	811702.085	820153.875	銀合歡	Leucaena leucocephala	186	5	11	FELL	FELL	FELL	
3801	CT1190	3801	811650.468	820060.683	台灣相思	Acacia confusa	220	5	15	FELL	FELL	FELL	
3801	CT1191	3801	811652.187	820058.898	台灣相思	Acacia confusa	110	3	14	FELL	FELL	FELL	
3801 3801	CT1192	3801 3801	811654.182 811655.487	820059.095 820060.236	台灣相思	Acacia confusa	140 110	3	14	FELL FELL	FELL FELL	FELL FELL	
3801	CT1193 CT1195	3801 3801	811655.487	820060.236 820062.634	台灣相思	Acacia confusa Acacia confusa	110	5	13	FELL	FELL	FELL	
3801	CT1195	3801	811658.433	820059.086	台灣相思	Acacia confusa	190	5	13	FELL	FELL	FELL	
3801	CT1197	3801	811663.043	820060.145	台灣相思	Acacia confusa	120	4	11	FELL	FELL	FELL	
3801	CT1198	3801	811660.394	820060.711	台灣相思	Acacia confusa	110	4	14	FELL	FELL	FELL	
3801	CT1199	3801	811662.340	820061.619	台灣相思	Acacia confusa	200	5	12	FELL	FELL	FELL	
3801	CT120	3801	811702.188	820151.943	羊蹄甲屬	Bauhinia spp.	100	6	7	FELL	FELL	FELL	
3801	CT1200	3801	811662.964	820061.084	台灣相思	Acacia confusa	140	4	11	FELL	FELL	FELL	
3801	CT1201	3801	811664.458	820064.519	台灣相思	Acacia confusa	100	3	7	FELL	FELL	FELL	
3801	CT1202	3801	811663.410	820064.703	台灣相思	Acacia confusa	100	4	8	FELL	FELL	FELL	
3801 3801	CT1203 CT1204	3801 3801	811665.251 811663.421	820065.394 820065.990	台灣相思	Acacia confusa	110	5	10 9	FELL	FELL FELL	FELL FELL	
3801	CT1204	3801	811666.248	820065.990	古海伯心 蓄權	Acacia confusa Hibiscus tiliaceus	190	7	13	FELL	FELL	FELL	
3801	CT1205	3801	811665.529	820068.028	台灣相思	Acacia confusa	140	4	14	FELL	FELL	FELL	
3801	CT1207	3801	811662.625	820067.925	台灣相思	Acacia confusa	100	5	11	FELL	FELL	FELL	
3801	CT1208	3801	811662.574	820067.142	台灣相思	Acacia confusa	180	5	11	FELL	FELL	FELL	
3801	CT1209	3801	811661.430	820067.505	台灣相思	Acacia confusa	170	4	13	FELL	FELL	FELL	
3801	CT121	3801	811697.537	820157.064	台灣相思	Acacia confusa	140	6	9	FELL	FELL	FELL	
3801	CT1210	3801	811661.889	820068.614	台灣相思	Acacia confusa	170	4	13	FELL	FELL	FELL	
3801	CT1211	3801	811660.773	820068.864	台灣相思	Acacia confusa	140	5	8	FELL	FELL	FELL	
3801 3801	CT1212	3801 3801	811659.711 811660.620	820068.287 820066.902	台灣相思	Acacia confusa	100	5	7	FELL	FELL	FELL	
3801 3801	CT1213 CT1214	3801 3801	811660.620 811660.827	820066.902 820066.009	台灣相思	Acacia confusa Acacia confusa	150 120	4	14	FELL FELL	FELL FELL	FELL FELL	
3801	CT1214 CT1215	3801 3801	811660.827	820065.009	台灣相思 棒	Acacia contusa Melia azedarach	120 350	8	10	FELL	FELL	FELL	
3801	CT1215	3801	811658.891	820066.853	台灣相思	Acacia confusa	110	5	9	FELL	FELL	FELL	
3801	CT1217	3801	811642.036	820069.080	黄槿	Hibiscus tiliaceus	170	7	7	FELL	FELL	FELL	

		Current Maintenance					Tree	Measuren		Recommendation in LVP			
Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Latin Name	DBH	Crown Spread	Height	(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
		- '					(mm)	(m)	(m)				
Exiting Works													
3801 3801	CT122	3801 3801	811697.277 811651.082	820156.280 820064.429	台灣相思	Acacia confusa	122	6	6	FELL	FELL	FELL	
3801	CT1221 CT1222	3801	811651.082	820064.429 820063.225	台灣相思	Acacia confusa Acacia confusa	160 110	6 4	14 14	FELL FELL	FELL FELL	FELL FELL	
3801	CT1224	3801	811649.110	820055.915	台灣相思	Acacia confusa	100	4	12	FELL	FELL	FELL	
3801	CT1225	3801	811645.138	820057.496	紅膠木	Lophostemon confertus	130	4	11	FELL	FELL	FELL	
3801	CT1226	3801	811646.680	820061.645	台灣相思	Acacia confusa	100	3	10	FELL	FELL	FELL	
3801	CT1227	3801	811646.453	820065.996	台灣相思	Acacia confusa	140	5	10	FELL	FELL	FELL	
3801	CT123	3801	811695.152	820152.291	銀合歡	Leucaena leucocephala	120	8	4	FELL	FELL	FELL	
3801 3801	CT1230	3801 3801	811642.252 811641.814	820065.051 820058.809	大葉相思	Acacia mangium	300	5	15	FELL	FELL	FELL	
3801	CT1233	3801	811640.277	820056.745	大葉相思 大葉相思	Acacia mangium	220 490	- 4 - 5	13	FELL FELL	FELL FELL	FELL FELL	
3801	CT1234 CT1236	3801	811637.069	820057.613	紅膠木	Acacia manqium Lophostemon confertus	150	5	9	FELL	FELL	FELL	
3801	CT1237	3801	811636.263	820057.154	紅膠木	Lophostemon confertus	140	7	8	FELL	FELL	FELL	
3801	CT1239	3801	811633.574	820054.150	台灣相思	Acacia confusa	140	4	12	FELL	FELL	FELL	
3801	CT124	3801	811695.622	820158.091	大葉相思	Acacia mangium	140	4	11	FELL	FELL	FELL	
3801	CT1240	3801	811633.596	820052.218	台灣相思	Acacia confusa	100	4	10	FELL	FELL	FELL	
3801	CT1241	3801	811632.650	820052.715	台灣相思	Acacia confusa	100	4	9	FELL	FELL	FELL	
3801 3801	CT1242 CT1244	3801 3801	811631.635 811630.680	820055.291 820052.887	大葉相思	Acacia mangium	180 260	3	15 16	FELL FELL	FELL FELL	FELL FFII	
3801	CT1244 CT1245	3801	811630.680	820052.887	大薬相忠 台灣相思	Acacia mangium Acacia confusa	240	5	16	FELL	FELL	FELL	
3801	CT1245	3801	811624.968	820052.652	棟	Melia azedarach	280	9	16	FELL	FELL	FELL	
3801	CT1248	3801	811623.953	820053.506	楝	Melia azedarach	220	6	14	FELL	FELL	FELL	
3801	CT1249	3801	811624.959	820054.452	黄槿	Hibiscus tiliaceus	150	5	13	FELL	FELL	FELL	
3801	CT125	3801	811694.041	820158.993	台灣相思	Acacia confusa	110	5	9	FELL	FELL	FELL	
3801	CT1250	3801	811623.931	820055.134	黄槿	Hibiscus tiliaceus	110	4	12	FELL	FELL	FELL	
3801	CT1251	3801	811628.667	820058.672	台灣相思	Acacia confusa	180	4	15	FELL	FELL	FELL	
3801 3801	CT1252 CT1253	3801 SLPS	811627.483 811627.492	820059.908 820062.194	台灣相思 羊蹄甲屬	Acacia confusa	130	5	13	FELL TRANSPLANT	FELL TRANSPLANTED	FELL TRANSPLANTED	
3801	CT1253 CT1254	SLPS 3801	811627.492	820062.194 820062.024	+師中屬 台灣相思	Bauhinia spp. Acacia confusa	110	5 4	10	FELL	TRANSPLANTED FELL	TRANSPLANTED FELL	
3801	CT1254	3801	811625.053	820059.890	台灣相思	Acacia confusa	100	4	10	FELL	FELL	FELL	
3801	CT1256	3801	811626.243	820059.254	台灣相思	Acacia confusa	100	2	14	FELL	FELL	FELL	
3801	CT1257	3801	811626.096	820057.985	台灣相思	Acacia confusa	140	4	15	FELL	FELL	FELL	
3801	CT1258	3801	811625.230	820058.734	台灣相思	Acacia confusa	190	6	15	FELL	FELL	FELL	
3801	CT1259	3801	811623.876	820059.493	台灣相思	Acacia confusa	160	5	15	FELL	FELL	FELL	
3801 3801	CT126	3801 3801	811694.133 811623.284	820160.858 820059.999	黄花夾竹桃	Thevetia peruviana	100	5	6	FELL	FELL	FELL	
3801	CT1260	3801	811623.284	820059.999 820059.069	台灣相思 大葉相思	Acacia confusa	100	4	11	FELL	FELL	FELL	
3801	CT1261 CT1262	3801	811622.963	820059.069	台灣相思	Acacia mangium  Acacia confusa	230 150	3	15 15	FELL FELL	FELL FELL	FELL FELL	
3801	CT1263	3801	811622.836	820055.500	黄槿	Hibiscus tiliaceus	130	4	12	FELL	FELL	FELL	
3801	CT1264	3801	811621.279	820056.564	台灣相思	Acacia confusa	100	5	8	FELL	FELL	FELL	
3801	CT1265	3801	811619.348	820054.325	紅膠木	Lophostemon confertus	100	5	8	FELL	FELL	FELL	
3801	CT1266	3801	811620.374	820057.219	大葉相思	Acacia mangium	120	1	6	FELL	FELL	FELL	
3801	CT1267	3801	811619.655	820057.960	大葉相思	Acacia mangium	350	5	16	FELL	FELL	FELL	
3801	CT1268	3801	811617.395	820058.807	棟	Melia azedarach	150	6	11	FELL	FELL	FELL	
3801 3801	CT1269 CT127	3801 3801	811619.470 811692.824	820058.930 820160.944	大葉相思 大葉相思	Acacia mangium	130 220	6	11	FELL FELL	FELL FELL	FELL FELL	
3801	CT127	3801	811619.393	820160.944	大葉相思	Acacia mangium	160	3	14	FELL	FELL	FELL	
3801	CT1270	3801	811624.011	820062.722	台灣相思	Acacia manqium Acacia confusa	180	3	15	FELL	FELL	FELL	
3801	CT1272	3801	811622.316	820064.100	台灣相思	Acacia confusa	190	5	12	FELL	FELL	FELL	
3801	CT1273	3801	811621.141	820063.192	台灣相思	Acacia confusa	170	3	11	FELL	FELL	FELL	
3801	CT1274	3801	811618.461	820062.540	楝	Melia azedarach	280	6	15	FELL	FELL	FELL	
3801	CT1275	3801	811618.213	820063.536	台灣相思	Acacia confusa	180	4	10	FELL	FELL	FELL	
3801 3801	CT1276	3801 3801	811620.568 811615.659	820065.793 820057.847	台灣相思	Acacia confusa	260	6	11	FELL	FELL	FELL	
3801	CT1277 CT1278	3801 3801	811615.659 811614.812	820057.847 820058.290	台灣相思 尾葉桉	Acacia confusa Eucalyptus urophylla	190 450	8	8 20	FELL FELL	FELL FELL	FELL FELL	
3801	CT1278	3801	811690.112	820162.537	大葉相思	Acacia mangium	330	7	15	FELL	FELL	FELL	
3801	CT1280	3801	811613.313	820058.735	紅膠木	Lophostemon confertus	110	5	9	FELL	FELL	FELL	
3801	CT1281	3801	811610.873	820058.940	大葉相思	Acacia mangium	360	7	16	FELL	FELL	FELL	
3801	CT1282	3801	811610.668	820060.409	大葉相思	Acacia mangium	120	5	7	FELL	FELL	FELL	
3801	CT1283	3801	811610.597	820062.377	大葉相思	Acacia mangium	230	4	16	FELL	FELL	FELL	
3801 3801	CT1284	3801 3801	811607.665 811607.536	820059.682	大葉相思	Acacia mangium	290	6	12	FELL	FELL	FELL	
3801	CT1285 CT1287	3801 3801	811607.536 811608.440	820060.925 820066.620	大葉相思 台灣相思	Acacia mangium Acacia confusa	220 240	6	15 12	FELL FELL	FELL FELL	FELL FELL	
3801	CT1287	3801	811606.768	820069.493	大葉相思	Acacia conjusa Acacia mangium	250	5	12	FELL	FELL	FELL	
3801	CT1289	3801	811605.304	820069.953	大葉相思	Acacia mangium	380	8	12	FELL	FELL	FELL	
3801	CT129	3801	811690.358	820160.586	大葉相思	Acacia mangium	130	7	10	FELL	FELL	FELL	
3801	CT1290	3801	811603.451	820068.775	大葉相思	Acacia mangium	320	8	15	FELL	FELL	FELL	
3801	CT1291	3801	811605.452	820067.383	台灣相思	Acacia confusa	210	9	10	FELL	FELL	FELL	
3801	CT1292	3801	811606.745	820067.803	台灣相思	Acacia confusa	250	5	15	FELL	FELL	FELL	
3801 3801	CT1293	3801 3801	811606.717 811606.785	820066.758 820066.146	台灣相思	Acacia confusa	140	4	7	FELL	FELL	FELL	
3801	CT1294 CT1295	3801 3801	811606.785 811606.498	820066.146 820064.918	台灣相思 台灣相思	Acacia confusa Acacia confusa	100 120	5	8	FELL FELL	FELL FELL	FELL FELL	
3801	CT1295	3801	811605.550	820065.321	台灣相思	Acacia confusa	100	6	8	FELL	FELL	FELL	
3801	CT1290	3801	811604.589	820063.802	台灣相思	Acacia confusa	380	8	11	FELL	FELL	FELL	
3801	CT1298	3801	811603.751	820063.459	台灣相思	Acacia confusa	140	5	4	FELL	FELL	FELL	
3801	CT130	3801	811688.375	820158.488	台灣相思	Acacia confusa	120	4	11	FELL	FELL	FELL	
3801	CT1300	3801	811618.362	820072.427	台灣相思	Acacia confusa	120	3	8	FELL	FELL	FELL	
3801	CT1302	3801	811622.585	820065.226	台灣相思	Acacia confusa	150	5	11	FELL	FELL	FELL	
3801 3801	CT1303	3801 3801	811626.904	820071.159	大葉相思	Acacia mangium	200	4	14	FELL	FELL	FELL	
3801 3801	CT1306	3801 3801	811629.785 811628.994	820070.348 820073.017	大葉相思 大葉相思	Acacia mangium	160 230	3	14	FELL FELL	FELL FELL	FELL FFII	
3801	CT1307 CT1308	3801	811628.994	820073.017	大薬相思	Acacia mangium	120	4	15 14	FELL	FELL	FELL	
3801	CT1308 CT1309	3801 3801	811635.324 811635.673	820073.108 820071.721	大葉相思	Acacia mangium  Acacia mangium	120	5	14	FELL	FELL	FELL	
3801	CT1309	3801	811693.742	820155.840	大葉相思	Acacia mangium	220	4	8	FELL	FELL	FELL	
3801	CT1311	3801	811637.911	820070.255	大葉相思	Acacia mangium	300	5	15	FELL	FELL	FELL	
3801	CT1313	3801	811639.084	820071.703	大葉相思	Acacia mangium	300	6	15	FELL	FELL	FELL	
3801	CT1314	3801	811640.729	820070.597	大葉相思	Acacia mangium	150	2	8	FELL	FELL	FELL	

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		Current Maintenance						Aeasurem Crown		Recommendation in LVP			
Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Latin Name	DBH (mm)	Spread	Height (m)	(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
							(mm)	(m)	(m)				
xiting Works C 3801		3801	811639.819	820072.291	大葉相思		1 450	4		re.	re.	5511	1
3801	CT1315 CT1316	3801	811637.298	820072.291	人進和芯 台灣相思	Acacia manqium Acacia confusa	160 170	4	11	FELL FELL	FELL FELL	FELL FELL	
3801	CT1317	3801	811636.247	820076.238	台灣相思	Acacia confusa	150	4	15	FELL	FELL	FELL	
3801	CT1319	3801	811634.887	820077.749	台灣相思	Acacia confusa	120	5	10	FELL	FELL	FELL	
3801	CT132	3801	811693.236	820155.279	大葉相思	Acacia mangium	140	3	11	FELL	FELL	FELL	
3801 3801	CT1320	3801 3801	811632.856 811631.814	820076.156 820077.456	台灣相思	Acacia confusa	170	6	12	FELL	FELL	FELL	
3801	CT1321 CT1322	3801	811631.814	820077.456	台灣相思	Acacia confusa Melia azedarach	130 270	2	10 14	FELL FELL	FELL FELI	FELL FELL	
3801	CT1323	3801	811622.014	820078.397	大葉相思	Acacia mangium	140	7	6	FELL	FELL	FELL	
3801	CT1324	3801	811621.603	820078.664	大葉相思	Acacia mangium	260	6	13	FELL	FELL	FELL	
3801	CT1325	3801	811619.443	820079.972	大葉相思	Acacia mangium	140	6	10	FELL	FELL	FELL	
3801	CT1326	3801	811620.325	820080.663	大葉相思	Acacia mangium	350	7	12	FELL	FELL	FELL	
3801 3801	CT1327	3801 3801	811612.824 811576.335	820086.555 820054.894	旅人蕉 台灣相思	Ravenala madaqascariensis	160 440	2	9	FELL	FELL	FELL	
3801	CT1328 CT1329	3801	811576.335	820054.894 820052.415	紅膠木	Acacia confusa	100	12 3	5	FELL FELL	FELL FELL	FELL FELL	
3801	CT1323	3801	811691.916	820152.671	大葉相思	Lophostemon confertus Acacia mangium	290	6	12	FELL	FELL	FELL	
3801	CT1334	3801	811643.088	820040.639	大葉相思	Acacia mangium	300	5	14	FELL	FELL	FELL	
3801	CT1335	3801	811643.238	820042.562	黃槿	Hibiscus tiliaceus	110	4	6	FELL	FELL	FELL	
3801	CT1336	3801	811644.853	820044.200	大葉相思	Acacia mangium	150	2	10	FELL	FELL	FELL	
3801	CT1337	3801	811645.467	820044.164 820045.445	大葉相思	Acacia mangium	250	6	13	FELL	FELL	FELL	
3801 3801	CT1338 CT1339	3801 3801	811647.339 811647.985	820045.445 820044.867	大蘇相思 大蘇相思	Acacia mangium  Acacia mangium	310 160	5	14 8	FELL FELL	FELL FELL	FELL FELL	
3801	CT1339 CT134	3801	811647.985	820044.867 820152.406	大脈相忠	Acacia mangium Melia azedarach	280	7	12	FELL	FELL	FELL	
3801	CT1340	3801	811647.847	820046.273	黄槿	Hibiscus tiliaceus	100	3	7	FELL	FELL	FELL	
3801	CT1342	3801	811652.415	820044.718	死樹	Dead tree	230	4	7	FELL	FELL	FELL	
3801	CT1343	3801	811650.168	820049.929	大葉相思	Acacia mangium	280	4	14	FELL	FELL	FELL	
3801	CT1344	3801	811651.101	820051.318	大葉相思	Acacia mangium	230	3	12	FELL	FELL	FELL	
3801 3801	CT1345	3801 3801	811651.687	820052.090	大葉相思 大葉相思	Acacia mangium	250	5	11	FELL	FELL	FELL	
3801	CT1346 CT1347	3801 3801	811652.422 811660.138	820052.719 820057.935	大熊相思 台灣相思	Acacia mangium Acacia confusa	100	4 5	8	FELL FELL	FELL FELI	FELL FELL	
3801	CT1348	3801	811659.995	820057.935	台灣相思	Acacia confusa	200	4	10	FELL	FELL	FELL	
3801	CT135	3801	811690.529	820151.936	棟	Melia azedarach	140	6	10	FELL	FELL	FELL	
3801	CT136	3801	811689.178	820148.711	台灣相思	Acacia confusa	110	5	7	FELL	FELL	FELL	
3801	CT137	3801	811688.138	820148.992	台灣相思	Acacia confusa	120	4	7	FELL	FELL	FELL	
3801	CT1373	N/A	811478.350	820107.230	棟	Melia azedarach	220	5	7	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801 3801	CT1375	N/A N/A	811478.960 811479.940	820112.150	台灣相思	Acacia confusa	130	3	5	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1376 CT1378	N/A	811484.080	820111.960 820113.450	台灣相思	Acacia confusa Acacia confusa	110 180	5	6	RETAIN RETAIN	Not under 3RS contract works area  Not under 3RS contract works area	Not under 3RS contract works area Not under 3RS contract works area	
3801	CT1379	N/A	811484.940	820113.430	ロ/810/0	Thevetia peruviana	100	4	4	FELL	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT13/5	3801	811686.644	820153.384	台灣相思	Acacia confusa	187	5	11	FELL	FELL	FELL	
3801	CT1380	3801	811483.351	820116.098	棟	Melia azedarach	150	3	7	FELL	FELL	FELL	
3801	CT1381	3801	811483.244	820117.593	棟	Melia azedarach	220	4	7	FELL	FELL	FELL	
3801 3801	CT1382	3801 N/A	811485.435 811489.400	820117.488	黄槿 大葉相思	Hibiscus tiliaceus	130	4	6	FELL RETAIN	FELL	FELL	
3801	CT1387 CT1388	N/A	811489.400	820123.200 820123.660	大統領心 羊蹄甲屬	Acacia mangium Bauhinia spp.	160 100	4	9	RETAIN	Not under 3RS contract works area Not under 3RS contract works area	Not under 3RS contract works area Not under 3RS contract works area	
3801	CT1389	N/A	811489.802	820123.000	大葉相思	Acacia mangium	230	4	7	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT139	3801	811684.867	820154.505	台灣相思	Acacia confusa	142	6	11	FELL	FELL	FELL	
3801	CT1390	N/A	811493.120	820127.530	台灣相思	Acacia confusa	160	7	6	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1391	N/A	811493.560	820127.990	台灣相思	Acacia confusa	130	6	7	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1392	N/A	811492.950	820129.490	台灣相思	Acacia confusa	120	6	6	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801 3801	CT1393 CT1394	N/A N/A	811495.560 811494.630	820128.240 820129.660	台灣相思	Acacia confusa Acacia confusa	100 150	5	5 8	RETAIN RETAIN	Not under 3RS contract works area Not under 3RS contract works area	Not under 3RS contract works area Not under 3RS contract works area	
3801	CT1394 CT1395	N/A	811494.440	820129.660	ロ/810/0	Thevetia peruviana	100	4	5	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1396	N/A	811495.470	820130.700	黄花夾竹桃	Thevetia peruviana	110	5	5	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1397	N/A	811499.890	820130.570	銀合歡	Leucaena leucocephala	190	6	9	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1398	3801	811504.913	820134.222	黄槿	Hibiscus tiliaceus	110	4	6	FELL	FELL	FELL	
3801	CT1399	N/A	811504.710	820133.380	台灣相思	Acacia confusa	100	4	5	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801 3801	CT140 CT1401	3801 N/A	811682.454 811505.556	820154.147 820136.879	台灣相思 黃槿	Acacia confusa	220	7	10	FELL	FELL Not under 2BS contract works area	FELL Not under 205 contract works area	
3801	CT1401 CT1403	N/A	811509.950	820138.500	模	Hibiscus tiliaceus Melia azedarach	100 130	5	7	FELL RETAIN	Not under 3RS contract works area  Not under 3RS contract works area	Not under 3RS contract works area Not under 3RS contract works area	
3801	CT1404	N/A	811510.430	820138.390	棟	Melia azedarach	110	4	6	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1406	3801	811515.030	820144.490	台灣相思	Acacia confusa	100	3	5	RETAIN	REMOVED	REMOVED	Removed due to safety concern of Airport Express Line operation.
3801	CT1408	3801	811523.766	820156.346	台灣相思	Acacia confusa	110	4	7	FELL	FELL	FELL	
3801	CT1409	3801	811524.439	820157.794	台灣相思	Acacia confusa	110	4	6	FELL	FELL	FELL	
3801 3801	CT141	3801 3801	811685.461	820158.845	台灣相思 黃花夾竹桃	Acacia confusa Thouatia poquiana	214	7	12	FELL RETAIN	FELL REMOVED	FELL REMOVED	Parmoved due to enfety concern of Airport Every
3801	CT1411 CT1413	3801	811523.190 811527.230	820161.190 820165.090	東化火竹桃 羊蹄甲屬	Thevetia peruviana Bauhinia spp.	100 130	6	5	RETAIN RETAIN	REMOVED REMOVED	REMOVED REMOVED	Removed due to safety concern of Airport Express Line operation.  Removed due to safety concern of Airport Express Line operation.
3801	CT1413	3801	811527.230	820164.220	羊蹄甲屬	Bauhinia spp.	160	6	6	RETAIN	REMOVED	REMOVED	Removed due to safety concern of Airport Express Line operation.  Removed due to safety concern of Airport Express Line operation.
3801	CT1415	3801	811524.080	820163.520	羊蹄甲屬	Bauhinia spp.	130	5	8	RETAIN	REMOVED	REMOVED	Removed due to safety concern of Airport Express Line operation.
3801	CT1416	3801	811522.180	820161.470	羊蹄甲屬	Bauhinia spp.	110	6	6	RETAIN	REMOVED	REMOVED	Removed due to safety concern of Airport Express Line operation.
3801	CT1417	3801	811521.180	820161.130	台灣相思	Acacia confusa	160	5	11	RETAIN	REMOVED	REMOVED	Confirmed removed due to safety concern of Airport Express Line operation in 2021.
3801	CT1418	3801	811517.310	820159.920	黄槿	Hibiscus tiliaceus	230	8	10	RETAIN	REMOVED	REMOVED	Removed due to safety concern of Airport Express Line operation.
3801 3801	CT142 CT1426	3801 3802	811681.989 811488.407	820161.006 820155.898	銀合歡	Leucaena leucocephala	100	3 5	13	FELL RFTAIN	FELL FELI	FELL FELL	
3801	CT1426 CT1427	3802 3802	811488.407 811487.122	820155.898 820155.523	大熊相思 大葉相思	Acacia mangium	120 410	5 8	5 15	RETAIN RETAIN	FELL FELL	FELL FELL	
3801	CT1427	3802	811486.052	820154.674	大葉相思	Acacia mangium Acacia mangium	390	7	16	RETAIN	FELL	FELL	
3801	CT1429	3802	811485.208	820154.697	潺槁樹	Litsea glutinosa	149	6	9	RETAIN	FELL	FELL	
3801	CT143	3801	811679.461	820160.363	台灣相思	Acacia confusa	186	4	12	FELL	FELL	FELL	
3801	CT1430	3801	811482.581	820152.646	黃槿	Hibiscus tiliaceus	180	8	14	FELL	FELL	FELL	
3801	CT1431	3801	811484.712	820149.682	紅膠木	Lophostemon confertus	110	6	6	FELL	FELL	FELL	
3801	CT1432	3802	811486.363	820148.963	紅膠木 大葉相思	Lophostemon confertus	110	4	7	RETAIN	FELL	FELL	
3801 3801	CT1433 CT1434	3802 3801	811483.288 811484.933	820147.865 820146.409	大熊相思 黃槿	Acacia mangium	280 200	5 4	13	RETAIN FELL	FELL FELL	FELL FELL	
3801	CT1434 CT1435	3801	811484.933	820145.409 820145.589	英健 大葉相思	Hibiscus tiliaceus Acacia manaium	180	3	6	FELL	FELL	FELL	
3801	CT1435	3801	811478.942	820150.082	棟	Melia azedarach	100	6	8	FELL	FELL	FELL	
3801	CT1437	3801	811476.562	820151.440	紅膠木	Lophostemon confertus	180	4	15	FELL	FELL	FELL	
3801	CT1438	3801	811475.167	820151.343	紅膠木	Lophostemon confertus	149	5	14	FELL	FELL	FELL	
3001													

		Current Maintenance						Measuren		Recommendation in LVP			
Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Latin Name	DBH	Spread	Height	(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
		- '					(mm)	(m)	(m)				
Exiting Works					( - WH 17 77								
3801 3801	CT1439 CT144	3801 3801	811476.251 811678.506	820146.221 820160.891	台灣相思	Acacia confusa	110 120	4	13	FELL FELL	FELL FELL	FELL FELL	
3801	CT1440	3801	811475.744	820160.891	台灣相思	Acacia confusa Acacia confusa	240	6	15	FELL	FELL	FELL	
3801	CT1442	3801	811468.820	820131.727	黄槿	Hibiscus tiliaceus	190	8	10	FELL	FELL	FELL	
3801	CT1443	N/A	811469.149	820123.608	黃槿	Hibiscus tiliaceus	160	6	9	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1448	N/A	811464.061	820117.944	台灣相思	Acacia confusa	110	4	8	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801 3801	CT1449 CT145	N/A 3801	811464.605 811677.559	820117.022 820161.263	台灣相思	Acacia confusa	110	7	8 11	RETAIN FELL	Not under 3RS contract works area FELL	Not under 3RS contract works area	
3801	CT145	N/A	811463.188	820115.153	三	Acacia confusa Litsea glutinosa	100	5	7	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1451	N/A	811462.516	820116.395	台灣相思	Acacia confusa	180	6	10	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1452	3801	811460.820	820118.492	大葉相思	Acacia mangium	250	5	13	FELL	FELL	FELL	
3801	CT1453	3801	811457.301	820119.470	羊蹄甲屬	Bauhinia spp.	110	6	7	FELL	FELL	FELL	
3801	CT1454	3801 3801	811456.815 811449.865	820122.820 820117.011	細葉榕 大葉相里	Ficus microcarpa	140	4	5	FELL	FELL	FELL	
3801	CT1455 CT1456	3801	811449.865 811453.436	820117.011 820115.681	大源相忠 黄槿	Acacia mangium Hibiscus tiliaceus	180 100	5	8	FELL FELL	FELL FELL	FELL FELL	
3801	CT1450	3801	811453.633	820114.931	黄槿	Hibiscus tiliaceus	130	6	10	FELL	FELL	FELL	
3801	CT1458	3801	811454.686	820114.537	黄槿	Hibiscus tiliaceus	160	5	10	FELL	FELL	FELL	
3801	CT1459	3801	811456.069	820114.382	黄槿	Hibiscus tiliaceus	130	4	10	FELL	FELL	FELL	
3801	CT146	3801	811677.850	820155.510	楝	Melia azedarach	360	14	12	FELL	FELL	FELL	
3801 3801	CT1460	3801 3801	811454.371 811455.518	820112.693 820112.302	大葉相思 大葉相思	Acacia mangium	190	6	10	FELL	FELL	FELL	
3801	CT1461 CT1465	3801 N/A	811455.518 811459.544	820112.302 820110.471	大薬相思 台灣相思	Acacia mangium  Acacia confusa	150 110	5 7	11 7	FELL FELL	FELL Not under 3RS contract works area	FELL Not under 3RS contract works area	
3801	CT1469	N/A	811456.928	820104.333	青槿	Hibiscus tiliaceus	190	8	11	FELL	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1409	3801	811676.956	820157.021	銀合歡	Leucaena leucocephala	120	7	11	FELL	FELL	FELL	
3801	CT1470	N/A	811454.386	820104.735	大葉相思	Acacia mangium	350	7	15	FELL	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1471	3801	811450.719	820111.181	羊蹄甲屬	Bauhinia spp.	210	7	9	FELL	FELL	FELL	
3801	CT1472	3801	811440.179	820139.344	台灣相思	Acacia confusa	340	7	14	FELL	FELL	FELL	
3801 3801	CT1473 CT1474	3801 3801	811441.608 811442.852	820140.438 820140.406	台灣相思 大蘇相思	Acacia confusa	269 260	7 5	7	FELL	FELL FELL	FELL FELL	
3801	CT1474	3801	811443.547	820140.406	大葉相思	Acacia mangium Acacia mangium	210	6	13	FELL	FELL	FELL	
3801	CT1476	3801	811444.064	820139.125	大葉相思	Acacia mangium	110	5	6	FELL	FELL	FELL	
3801	CT1477	3801	811446.706	820140.094	大葉相思	Acacia mangium	350	8	15	FELL	FELL	FELL	
3801	CT1478	3801	811446.402	820140.830	大葉相思	Acacia mangium	260	8	14	FELL	FELL	FELL	
3801 3801	CT1479	3801 3801	811448.072 811673.636	820142.206 820157.351	紅膠木	Lophostemon confertus	150	5	10	FELL	FELL	FELL	
3801	CT148 CT1480	3801	8116/3.636	820157.351 820142.725	台灣相思 紅膠木	Acacia confusa	110 150	6 5	9	FELL	FELL FELL	FELL FELL	
3801	CT1480	3801	811450.085	820142.723	紅膠木	Lophostemon confertus  Lophostemon confertus	110	4	10	FELL FELL	FELL	FELL	
3801	CT1482	3801	811450.558	820141.599	紅膠木	Lophostemon confertus	220	3	15	FELL	FELL	FELL	
3801	CT1483	3801	811450.388	820132.627	黃槿	Hibiscus tiliaceus	254	8	10	FELL	FELL	FELL	
3801	CT1484	3801	811451.668	820134.187	黃槿	Hibiscus tiliaceus	230	8	10	FELL	FELL	FELL	
3801	CT1485	3801	811457.459	820129.115	細葉榕	Ficus microcarpa	140	5	7	FELL	FELL	FELL	
3801 3801	CT1486 CT1487	3801 3801	811463.072 811461.865	820135.838 820136.852	黄槿 黄槿	Hibiscus tiliaceus	100 170	5 8	8 11	FELL FELL	FELL FELL	FELL FELL	
3801	CT1487	3801	811461.273	820137.744	黄槿	Hibiscus tiliaceus Hibiscus tiliaceus	150	6	10	FELL	FELL	FELL	
3801	CT1489	3801	811459.659	820137.312	台灣相思	Acacia confusa	100	5	10	FELL	FELL	FELL	
3801	CT149	3801	811673.213	820158.776	台灣相思	Acacia confusa	158	7	10	FELL	FELL	FELL	
3801	CT1490	3801	811453.169	820143.395	黄槿	Hibiscus tiliaceus	100	12	8	FELL	FELL	FELL	
3801 3801	CT1491	3801 3801	811454.113 811454.555	820142.348 820143.391	黄槿	Hibiscus tiliaceus	200	7	13	FELL	FELL	FELL	
3801	CT1492 CT1493	3801	811454.555	820143.391	黃槿 黃槿	Hibiscus tiliaceus Hibiscus tiliaceus	140 130	6	12 8	FELL FELL	FELL FELL	FELL FELL	
3801	CT1494	3801	811455.622	820143.023	- 黄槿	Hibiscus tiliaceus	140	5	12	FELL	FELL	FELL	
3801	CT1495	3801	811456.677	820144.407	黄槿	Hibiscus tiliaceus	320	12	14	FELL	FELL	FELL	
3801	CT1496	3801	811458.068	820144.427	黄槿	Hibiscus tiliaceus	250	12	14	FELL	FELL	FELL	
3801 3801	CT1497	3801 3801	811457.804 811459.400	820142.600 820142.432	黃槿 黃槿	Hibiscus tiliaceus	170	8	10	FELL	FELL	FELL	
3801	CT1498 CT1499	3801 3801	811459.400 811458.729	820142.432 820145.511	黄種 大葉相思	Hibiscus tiliaceus Acacia mangium	170 200	6	12 15	FELL FELL	FELL FELL	FELL FELL	
3801	CT150	3801	811672.400	820158.169	台灣相思	Acacia mangiam Acacia confusa	100	5	11	FELL	FELL	FELL	
3801	CT1500	3801	811460.064	820145.233	大葉相思	Acacia mangium	300	6	13	FELL	FELL	FELL	
3801	CT1501	3801	811460.764	820146.292	大葉相思	Acacia mangium	170	5	11	FELL	FELL	FELL	
3801	CT1502	3801	811464.165	820143.652	羊蹄甲屬	Bauhinia spp.	110	8	10	FELL	FELL	FELL	
3801 3801	CT1503 CT1504	3801 3801	811464.748 811464.766	820144.361 820147.468	羊蹄甲屬 羊蹄甲屬	Bauhinia spp.	180	- 8 - 5	15 6	FELL FELL	FELL FELL	FELL FELL	
3801	CT1504	3801	811466.932	820146.691	台灣相思	Bauhinia spp. Acacia confusa	150	3	15	FELL	FELL	FELL	
3801	CT1505	3801	811467.327	820147.260	台灣相思	Acacia confusa	200	10	15	FELL	FELL	FELL	
3801	CT1507	3801	811467.737	820146.199	台灣相思	Acacia confusa	180	6	15	FELL	FELL	FELL	
3801	CT1508	3801	811469.768	820143.836	黄槿	Hibiscus tiliaceus	170	7	10	FELL	FELL	FELL	
3801 3801	CT1509	3801 3801	811470.662 811669.638	820146.178 820159.704	黃槿 台灣相思	Hibiscus tiliaceus	120	7	7	FELL	FELL	FELL	
3801	CT151 CT1510	3801 3801	811669.638 811468.988	820159.704 820147.294	台灣相思	Acacia confusa Hibiscus tiliaceus	184 220	7	10	FELL	FELL FFII	FELL FFII	
3801	CT1510	3801	811470.221	820147.208	黄槿	Hibiscus tiliaceus	230	8	13	FELL	FELL	FELL	
3801	CT1512	3801	811470.411	820148.880	黄槿	Hibiscus tiliaceus	310	12	15	FELL	FELL	FELL	
3801	CT1513	3801	811469.145	820149.581	黃槿	Hibiscus tiliaceus	140	7	12	FELL	FELL	FELL	
3801	CT1514	3801	811468.771	820148.627	黄槿	Hibiscus tiliaceus	230	8	15	FELL	FELL	FELL	
3801	CT1515	3802	811445.192	820185.063	羊蹄甲屬	Bauhinia spp.	160	4	7	RETAIN	FELL	FELL	
3801	CT1516 CT1517	3802 3802	811447.273 811449.007	820185.038 820185.903	羊蹄甲屬	Bauhinia spp.	120 140	4 5	5	RETAIN RETAIN	FELL FELL	FELL FELL	
3801	CT1517 CT1518	3802	811502.864	820185.903 820197.557	大葉相思	Melia azedarach Acacia mangium	310	7	10	RETAIN	FELL	FELL	
3801	CT1518	3802	811503.420	820197.576	大葉相思	Acacia mangium	150	5	8	RETAIN	FELL	FELL	
3801	CT152	3801	811668.613	820159.904	台灣相思	Acacia confusa	140	6	10	FELL	FELL	FELL	
3801	CT1520	3802	811503.390	820198.788	紅膠木	Lophostemon confertus	140	5	6	RETAIN	FELL	FELL	
3801	CT1521	3802	811504.484	820198.881	紅膠木	Lophostemon confertus	110	5	5	RETAIN	FELL	FELL	
3801	CT1522	3802	811507.675	820200.094	大葉相思	Acacia mangium	300	8	11	RETAIN	FELL	FELL	
3801 3801	CT1523 CT1524	3802 3802	811509.224 811512.232	820197.715 820199.176	台灣相思	Acacia confusa Litsea alutinosa	480 340	10 8	10 7	RETAIN RETAIN	FELL FELL	FELL FELL	
3801	CT1524	3802	811524.855	820196.62	海伽伽 黄槿	Hibiscus tiliaceus	340	9	9	FELL	FELL	FELL	
3801	CT1526	3801	811528.464	820197.931	潺槁樹	Litsea glutinosa	130	2	8	FELL	FELL	FELL	
3801	CT1527	3801	811530.157	820202.241	台灣相思	Acacia confusa	190	8	9	FELL	FELL	FELL	

						I						
		Current Maintenance					Tree Measure Crown	T .	Recommendation in LVP			
Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Latin Name	DBH	Height	(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
		U,					(mm) spread (m)	(m)	, ,			
Exiting Works												
3801 3801	CT1528	3801 3801	811531.456 811532.798	820201.819	台灣相思	Acacia confusa	170 8	10	FELL	FELL	FELL	
3801	CT1529 CT153	3801	811532.798	820201.518 820163.081	台灣相思	Acacia confusa Acacia confusa	230 6 120 5	11 10	FELL FELL	FELL FELL	FELL FELL	
3801	CT1530	3801	811533.631	820203.323	台灣相思	Acacia confusa	160 6	11	FELL	FELL	FELL	
3801	CT1531	3801	811533.060	820203.957	台灣相思	Acacia confusa	120 7	12	FELL	FELL	FELL	
3801	CT1532	3801	811528.736	820205.350	黃槿	Hibiscus tiliaceus	260 14	12	FELL	FELL	FELL	
3801 3801	CT1533	3801 3801	811527.794	820205.283	黄槿	Hibiscus tiliaceus	256 7	11	FELL	FELL	FELL	
3801	CT1536 CT1537	3801	811529.440 811530.052	820207.638 820215.424	黃槿 菩槿	Hibiscus tiliaceus Hibiscus tiliaceus	180 6 343 8	10	FELL FELL	FELL FELL	FELL FELL	
3801	CT1537	3801	811531.053	820213.424	黄槿	Hibiscus tiliaceus	140 5	10	FELL	FELL	FELL	
3801	CT1539	3801	811531.553	820215.492	黄槿	Hibiscus tiliaceus	312 9	10	FELL	FELL	FELL	
3801	CT154	3801	811666.662	820162.647	台灣相思	Acacia confusa	140 7	12	FELL	FELL	FELL	
3801	CT1540	3801	811533.317	820209.086	台灣相思	Acacia confusa	110 5	10	FELL	FELL	FELL	
3801	CT1541	3801	811534.340	820209.244	台灣相思	Acacia confusa	130 5	11	FELL	FELL	FELL	
3801 3801	CT1542 CT1543	3801 3801	811535.438 811534.437	820209.635 820208.264	台灣相思	Acacia confusa Acacia confusa	160 5 350 11	11	FELL FELL	FELL FELL	FELL FELL	
3801	CT1543	3801	811541.329	820209.083	黄槿	Hibiscus tiliaceus	150 7	11	FELL	FELL	FELL	
3801	CT1545	3801	811542.621	820209.510	黄槿	Hibiscus tiliaceus	100 7	7	FELL	FELL	FELL	
3801	CT1546	3801	811542.151	820211.165	黃槿	Hibiscus tiliaceus	150 7	10	FELL	FELL	FELL	
3801	CT1547	3801	811544.149	820211.673	台灣相思	Acacia confusa	190 7	13	FELL	FELL	FELL	
3801	CT1548	3801	811544.413	820210.407	台灣相思	Acacia confusa	270 8	14	FELL	FELL	FELL	
3801 3801	CT1549	3801 3801	811546.865 811666.611	820211.707 820163.807	大葉相思 台灣相思	Acacia mangium	170 5 100 6	11	FELL	FELL FELL	FELL	
3801	CT155 CT1550	3801	811546.747	820163.807	古海相忠 大葉相思	Acacia confusa  Acacia mangium	100 6 160 5	10	FELL FELL	FELL	FELL FELL	
3801	CT1551	3801	811547.796	820215.863	羊蹄甲屬	Bauhinia spp.	100 5	5	FELL	FELL	FELL	
3801	CT1552	3801	811545.487	820215.402	羊蹄甲屬	Bauhinia spp.	120 5	8	FELL	FELL	FELL	
3801	CT1553	3801	811538.095	820217.971	大葉相思	Acacia mangium	160 4	9	FELL	FELL	FELL	
3801	CT1554	3801	811539.014	820218.602	大葉相思	Acacia mangium	100 4	7	FELL	FELL	FELL	
3801 3801	CT1555 CT1556	3801 3801	811539.321 811539.868	820219.454 820218.663	大蘇相思 大蘇相思	Acacia mangium	220 5 290 6	12	FELL FELL	FELL FELL	FELL FELL	
3801	CT1556 CT1557	3801	811539.868 811540.921	820218.663 820221.041	大派相忠 蓄權	Acacia mangium Hibiscus tiliaceus	250 6	13	FELL	FELL	FELL	
3801	CT1558	3801	811541.612	820218.749	大葉相思	Acacia mangium	280 6	11	FELL	FELL	FELL	
3801	CT1559	3801	811542.978	820221.187	黄槿	Hibiscus tiliaceus	190 6	10	FELL	FELL	FELL	
3801	CT156	3801	811665.051	820163.492	台灣相思	Acacia confusa	110 5	10	FELL	FELL	FELL	
3801	CT1560	3801	811542.915	820222.447	黃槿	Hibiscus tiliaceus	180 5	10	FELL	FELL	FELL	
3801 3801	CT1561	3801 3801	811544.355 811543.772	820222.750	黄槿	Hibiscus tiliaceus	350 10	8	FELL	FELL	FELL	
3801	CT1562 CT1563	3801	811547.428	820221.872 820222.653	黄槿 紅花夾竹桃	Hibiscus tiliaceus Nerium indicum	100 5 160 8	9	FELL FELL	FELL FELL	FELL FELL	
3801	CT1564	3801	811551.029	820225.987	大葉相思	Acacia mangium	180 4	9	FELL	FELL	FELL	
3801	CT1565	3801	811552.028	820223.701	大葉相思	Acacia mangium	210 7	10	FELL	FELL	FELL	
3801	CT1566	3801	811552.941	820224.343	大葉相思	Acacia mangium	330 8	11	FELL	FELL	FELL	
3801	CT1567	3801	811553.772	820224.388	大葉相思	Acacia mangium	140 4	8	FELL	FELL	FELL	
3801 3801	CT1568 CT1569	3801 3801	811554.754 811554.812	820216.516 820217.597	紅膠木 紅膠木	Lophostemon confertus	160 3 200 4	9	FELL FELL	FELL FELL	FELL FELL	
3801	CT1569	3801	811664.319	820163.098	台灣相思	Lophostemon confertus Acacia confusa	140 5	9	FELL	FELL	FELL	
3801	CT1570	3801	811580.721	820232.601	濕地松	Pinus elliottii	140 4	7	FELL	FELL	FELL	
3801	CT1571	3801	811582.050	820232.978	濕地松	Pinus elliottii	120 3	7	FELL	FELL	FELL	
3801	CT1572	3801	811584.740	820234.111	濕地松	Pinus elliottii	100 2	6	FELL	FELL	FELL	
3801	CT158	3801	811664.962	820164.489	台灣相思	Acacia confusa	140 7	10	FELL	FELL	FELL	
3801 3801	CT159 CT161	3801 3801	811664.143 811666.039	820165.097 820169.281	台灣相思銀合數	Acacia confusa	158 7 110 6	9	FELL	FELL FELL	FELL FELL	
3801	CT162	3801	811668.833	820166.265	台灣相思	Leucaena leucocephala Acacia confusa	164 7	12	FELL	FFII	FELL	
3801	CT163	3801	811669.172	820164.397	台灣相思	Acacia confusa	100 6	8	FELL	FELL	FELL	
3801	CT164	3801	811669.899	820164.371	台灣相思	Acacia confusa	150 6	11	FELL	FELL	FELL	
3801	CT165	3801	811677.860	820166.248	台灣相思	Acacia confusa	120 5	12	FELL	FELL	FELL	
3801 3801	CT166	3801 3801	811677.983 811677.161	820168.284 820168.643	台灣相思	Acacia confusa	140 5	15	FELL	FELL	FELL	
3801	CT167 CT168	3801 3801	811677.161 811675.424	820168.643 820169.247	台灣相思	Acacia confusa Acacia confusa	100 6	10	FELL	FELL FFII	FELL FFLI	
3801	CT169	3801	811686.062	820165.938	棟	Melia azedarach	210 7	14	FELL	FELL	FELL	
3801	CT170	3801	811683.474	820167.147	大葉相思	Acacia mangium	210 7	15	FELL	FELL	FELL	
3801	CT171	3801	811681.322	820169.796	大葉相思	Acacia mangium	190 6	12	FELL	FELL	FELL	
3801	CT172	3801	811680.450	820169.984	黄花夾竹桃	Thevetia peruviana	110 5	8	FELL	FELL	FELL	
3801 3801	CT173	3801 3801	811676.672 811672.992	820172.436 820174.377	台灣相思	Acacia confusa	180 9 210 7	16	FELL	FELL FFII	FELL	+
3801	CT176 CT177	3801 3801	811672.992 811671.350	820174.377 820175.099	台灣相思 台灣相思	Acacia confusa Acacia confusa	210 7 140 6	16 16	FELL FELL	FELL	FELL FELL	
3801	CT177	3801	811671.995	820173.099	羊蹄甲屬	Bauhinia spp.	110 7	9	FELL	FELL	FELL	
3801	CT179	3801	811669.648	820173.002	台灣相思	Acacia confusa	170 6	14	FELL	FELL	FELL	
3801	CT180	3801	811666.364	820175.308	台灣相思	Acacia confusa	180 7	16	FELL	FELL	FELL	
3801	CT181	3801	811665.456	820174.386	台灣相思	Acacia confusa	110 5	13	FELL	FELL	FELL	
3801	CT182	3801	811660.177	820171.247	台灣相思	Acacia confusa	120 5	10	FELL	FELL	FELL	
3801 3801	CT183 CT184	3801 3801	811658.475 811657.574	820166.754 820166.492	大葉相思 大葉相思	Acacia mangium	250 9 220 6	10	FELL FELL	FELL FELL	FELL FELL	
3801	CT1843	AAHK	811391.635	817613.111	A 施伯志 細葉榕	Acacia manqium Ficus microcarpa	310 3	6	RETAIN	Excluded from the Project	Excluded from the Project	Handed over to AAHK in Oct 2021.
3801	CT1844	AAHK	811380.606	817612.382	細葉榕	Ficus microcarpa	570 4	8	RETAIN	Excluded from the Project	Excluded from the Project	Handed over to AAHK in Oct 2021.
3801	CT1845	AAHK	811381.886	817624.303	細葉榕	Ficus microcarpa	520 4	7	RETAIN	Excluded from the Project	Excluded from the Project	Handed over to AAHK in Oct 2021.
3801	CT1846	AAHK	811382.300	817634.589	細葉榕	Ficus microcarpa	410 4	7	RETAIN	Excluded from the Project	Excluded from the Project	Handed over to AAHK in Oct 2021.
3801	CT1847	AAHK	811380.899	817640.183	細葉榕	Ficus microcarpa	590 4	6	RETAIN	Excluded from the Project	Excluded from the Project	Handed over to AAHK in Oct 2021.
3801 3801	CT1848	AAHK AAHK	811378.905 811372.259	817645.662	細葉榕 細葉榕	Ficus microcarpa	480 4 320 4	8 7	RETAIN	Excluded from the Project	Excluded from the Project	Handed over to AAHK in Oct 2021.
3801	CT1849 CT185	3801	811372.259 811657.255	817656.310 820165.399	細維格 大葉相思	Ficus microcarpa Acacia mangium	320 4 230 6	7	RETAIN	Excluded from the Project  FFI I	Excluded from the Project FFII	Handed over to AAHK in Oct 2021.
3801	CT1850	AAHK	811363.127	817671.363	細葉榕	Ficus microcarpa	370 4	8	RETAIN	Excluded from the Project	Excluded from the Project	Handed over to AAHK in Oct 2021.
3801	CT1851	AAHK	811363.547	817681.440	細葉榕	Ficus microcarpa	450 4	8	RETAIN	Excluded from the Project	Excluded from the Project	Handed over to AAHK in Oct 2021.
3801	CT1852	AAHK	811359.624	817692.088	細葉榕	Ficus microcarpa	420 4	7	RETAIN	Excluded from the Project	Excluded from the Project	Handed over to AAHK in Oct 2021.
3801	CT1853	AAHK	811354.966	817706.226	細葉榕	Ficus microcarpa	380 3	7	RETAIN	Excluded from the Project	Excluded from the Project	Handed over to AAHK in Oct 2021.
3801	CT1855	AAHK	811343.868	817780.938	羊蹄甲屬	Bauhinia spp.	290 4	3	RETAIN	Excluded from the Project	Excluded from the Project	Handed over to AAHK in May 2022.
3801 3801	CT1856	AAHK AAHK	811343.087 811347.770	817775.999	藍花楹	Jacaranda mimosifolia	210 5	7	RETAIN	Excluded from the Project	Excluded from the Project	Handed over to AAHK in May 2022.
2001	CT1857	ANHK	01134/.//U	817768.980	羊蹄甲屬	Bauhinia spp.	280 7	6	RETAIN	Excluded from the Project	Excluded from the Project	Handed over to AAHK in May 2022.

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Contracts	T10	Current Maintenance	F			1.25.40		Crown		Recommendation in LVP	5 f 12022	5	Remark
Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Latin Name	DBH (mm)	Spread	Height (m)	(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
							(11111)	(m)	(111)				
xiting Works (	CT1859	3801	811354.794	817740.366	羊蹄甲屬	Bauhinia spp.	230	4	7	RETAIN	Excluded from the Project	Excluded from the Project	
3801	CT1859	3801	811657.592	820164.354	大葉相思	Acacia mangium	150	5	9	FELL	FELL	FELL	
3801	CT1860	AAHK	811356.875	817729.968	羊蹄甲屬	Bauhinia spp.	110	2	4	RETAIN	Excluded from the Project	Excluded from the Project	Handed over to AAHK in Oct 2021.
3801	CT1861	AAHK	811357.838	817726.588	銀合歡	Leucaena leucocephala	130	3	8	RETAIN	Excluded from the Project	Excluded from the Project	Handed over to AAHK in Oct 2021.
3801 3801	CT1862	AAHK AAHK	811359.575 811363.236	817718.314	羊蹄甲屬 羊蹄甲屬	Bauhinia spp.	180	4	7	RETAIN	Excluded from the Project	Excluded from the Project	Handed over to AAHK in Oct 2021.
3801	CT1865 CT1866	AAHK	811363.236	817705.666 817701.562	主師中屬 羊蹄甲屬	Bauhinia spp.  Bauhinia spp.	240	3 4	10	RETAIN RETAIN	Excluded from the Project Excluded from the Project	Excluded from the Project Excluded from the Project	Handed over to AAHK in Oct 2021.  Handed over to AAHK in Oct 2021.
3801	CT1867	AAHK	811366.029	817697.454	主路甲屬	Bauhinia spp.	270	5	7	RETAIN	Excluded from the Project	Excluded from the Project	Handed over to AAHK in Oct 2021.  Handed over to AAHK in Oct 2021.
3801	CT1868	AAHK	811367.453	817693.620	羊蹄甲屬	Bauhinia spp.	260	4	8	RETAIN	Excluded from the Project	Excluded from the Project	Handed over to AAHK in Oct 2021.
3801	CT1869	AAHK	811368.603	817689.845	羊蹄甲屬	Bauhinia spp.	280	4	7	RETAIN	Excluded from the Project	Excluded from the Project	Handed over to AAHK in Oct 2021.
3801	CT187	3801	811656.760	820166.104	大葉相思	Acacia mangium	120	5	7	FELL	FELL	FELL	
3801 3801	CT1870 CT1871	AAHK AAHK	811367.667 811371.082	817686.011 817683.385	藍花楹 紅花羊蹄甲	Jacaranda mimosifolia Bauhinia purpurea	160 180	6	8	RETAIN RETAIN	Excluded from the Project  Excluded from the Project	Excluded from the Project Excluded from the Project	Handed over to AAHK in Oct 2021.  Handed over to AAHK in Oct 2021.
3801	CT1871	AAHK	811372.396	817679.098	紅花羊蹄甲	Bauhinia purpurea	220	4	8	RETAIN	Excluded from the Project	Excluded from the Project  Excluded from the Project	Handed over to AAHK in Oct 2021.  Handed over to AAHK in Oct 2021.
3801	CT1873	AAHK	811373.915	817674.713	羊蹄甲屬	Bauhinia spp.	160	1	5	RETAIN	Excluded from the Project	Excluded from the Project	Handed over to AAHK in Oct 2021.
3801	CT1874	AAHK	811383.723	817650.311	洋紫荊	Bauhinia x blakeana	180	6	7	RETAIN	Excluded from the Project	Excluded from the Project	Handed over to AAHK in Oct 2021.
3801	CT1876	AAHK	811399.008	817618.562	羊蹄甲屬	Bauhinia spp.	230	4	8	RETAIN	Excluded from the Project	Excluded from the Project	Handed over to AAHK in Oct 2021.
3801 3801	CT1877 CT1878	AAHK AAHK	811402.845 811405.603	817611.179 817606.686	紅花羊蹄甲 紅花羊蹄甲	Bauhinia purpurea	200	4 5	8 8	RETAIN RETAIN	Excluded from the Project	Excluded from the Project	Handed over to AAHK in Oct 2021.
3801	CT1878 CT188	3801	811405.603	817606.686 820168.303	紅化丰師中 台灣相思	Bauhinia purpurea	130	7	10	RETAIN FELL	Excluded from the Project FELL	Excluded from the Project FELL	Handed over to AAHK in Oct 2021.
3801	CT1888	3802	811428.848	820134.355	細葉榕	Acacia confusa Ficus microcarpa	300	6	8	RETAIN	FELL	FELL	
3801	CT189	3801	811648.680	820169.098	台灣相思	Acacia confusa	160	8	10	FELL	FELL	FELL	
3801	CT1891	3801	811421.766	820122.939	台灣相思	Acacia confusa	110	4	7	FELL	FELL	FELL	
3801	CT190	3801	811646.837	820168.898	台灣相思	Acacia confusa	130	5	9	FELL	FELL	FELL	
3801	CT1903	3801	811412.345	820118.269	耳果相思	Acacia auriculiformis	200	6	14	FELL	FELL	FELL	
3801 3801	CT191 CT1915	3801 3801	811645.828 811410.772	820169.164 820117.821	台灣相思	Acacia confusa	180 110	7	10 11	FELL FELL	FELL FELL	FELL FELL	
3801	CT1915 CT1918	3801	811410.772	820117.821 820113.127	台灣相思 羊蹄甲屬	Acacia confusa Bauhinia spp.	110	6	8	FELL	FELL	FELL	
3801	CT1918	3801	811411.271	820113.127	十四十周 黄槿	Hibiscus tiliaceus	155	7	8	FELL	FELL	FELL	
3801	CT192	3801	811644.947	820169.518	台灣相思	Acacia confusa	120	6	8	FELL	FELL	FELL	
3801	CT1920	3801	811406.304	820113.529	紅膠木	Lophostemon confertus	160	5	11	FELL	FELL	FELL	
3801	CT1921	3801	811405.857	820115.854	紅膠木	Lophostemon confertus	170	6	12	FELL	FELL	FELL	
3801 3801	CT1922	3801 3801	811403.620 811403.396	820113.931	台灣相思	Acacia confusa	110	1	11	FELL	FELL	FELL	
3801	CT1923 CT1924	3801	811403.396	820113.484 820111.096	台灣相思	Acacia confusa	110 145	5 4	12	FELL FELL	FELL FELL	FELL FELL	
3801	CT1924 CT1925	3801	811399.866	820112.200	青樺	Hibiscus tiliaceus Hibiscus tiliaceus	130	6	8 9	FELL	FELL	FELL	
3801	CT1926	3801	811398.996	820112.052	黄槿	Hibiscus tiliaceus	115	6	9	FELL	FELL	FELL	
3801	CT1927	3801	811399.271	820112.690	台灣相思	Acacia confusa	150	6	12	FELL	FELL	FELL	
3801	CT1928	3801	811398.235	820112.583	台灣相思	Acacia confusa	170	5	12	FELL	FELL	FELL	
3801 3801	CT1929	3801	811396.943	820112.368	台灣相思	Acacia confusa	200	7	12	FELL	FELL	FELL	
3801	CT193	3801 3801	811643.239 811397.720	820169.055	黃槿 黃槿	Hibiscus tiliaceus	100	6	4	FELL	FELL	FELL	
3801	CT1930 CT1931	3801	811397.720	820111.779 820111.552	黄槿	Hibiscus tiliaceus Hibiscus tiliaceus	200 210	6	11 11	FELL FELL	FELL FELL	FELL FELL	
3801	CT1932	3801	811395.944	820111.552	黄槿	Hibiscus tiliaceus	283	7	13	FELL	FELL	FELL	
3801	CT194	3801	811647.099	820170.705	紅膠木	Lophostemon confertus	110	6	7	FELL	FELL	FELL	
3801	CT195	3801	811648.907	820170.951	紅膠木	Lophostemon confertus	120	5	9	FELL	FELL	FELL	
3801	CT196	3801	811656.047	820174.360	台灣相思	Acacia confusa	300	8	13	FELL	FELL	FELL	
3801 3801	CT197 CT198	3801 3801	811658.662 811660.299	820177.947 820178.993	棟 台灣相思	Melia azedarach	230 130	7	13 10	FELL FELL	FELL FELL	FELL FELL	
3801	CT198	3801	811657.880	820179.319	台灣相思	Acacia confusa Acacia confusa	130	5	13	FELL	FELL	FELL	
3801	CT200	3801	811655.969	820178.959	台灣相思	Acacia confusa	100	3	10	FELL	FELL	FELL	
3801	CT201	3801	811655.786	820180.102	耳果相思	Acacia auriculiformis	180	6	14	FELL	FELL	FELL	
3801	CT202	3801	811652.113	820182.405	大葉相思	Acacia mangium	230	6	14	FELL	FELL	FELL	
3801 3801	CT203	3801 3801	811650.822 811646.331	820177.183 820176.852	銀合歡 台灣相思	Leucaena leucocephala	110	5	12	FELL	FELL FELL	FELL	
3801	CT204 CT205	3801 3801	811645.269	820176.852 820177.900	台灣相思	Acacia confusa	150 120	7	11 13	FELL FELL	FELL	FELL FELL	
3801	CT205	3801	811644.245	820177.900	台灣相思	Acacia confusa Acacia confusa	170	8	15	FELL	FELL	FELL	
3801	CT207	3801	811644.127	820181.841	台灣相思	Acacia confusa	140	7	14	FELL	FELL	FELL	
3801	CT208	3801	811647.929	820181.165	台灣相思	Acacia confusa	130	5	14	FELL	FELL	FELL	
3801	CT209	3801	811648.879	820181.789	台灣相思	Acacia confusa	120	4	15	FELL	FELL	FELL	
3801 3801	CT210	3801 3801	811646.912 811645.445	820182.868 820184.991	台灣相思	Acacia confusa	130	4	14	FELL	FELL	FELL	
3801	CT212 CT213	3801 3801	811645.445 811645.095	820184.991 820186.558	台灣相思	Acacia confusa Acacia confusa	120 140	5	12	FELL FELL	FELL FELL	FELL FELL	
3801	CT213	3801	811643.149	820186.397	青果榕	Ficus variegata	220	8	15	FELL	FELL	FELL	
3801	CT217	3801	811639.417	820188.072	台灣相思	Acacia confusa	170	6	11	FELL	FELL	FELL	
3801	CT218	3801	811636.965	820188.049	台灣相思	Acacia confusa	150	5	11	FELL	FELL	FELL	
3801	CT219	3801	811640.292	820184.068	台灣相思	Acacia confusa	140	5	12	FELL	FELL	FELL	
3801 3801	CT220	3801 3801	811641.476	820182.823 820181.531	台灣相思	Acacia confusa	120	6	13	FELL	FELL	FELL	
3801	CT221 CT222	3801 3801	811639.794 811639.073	820181.531 820180.793	台灣相思	Acacia confusa Acacia confusa	130 112	6 5	13	FELL FELL	FELL FELL	FELL FELL	
3801	CT223	3801	811639.073	820180.793 820181.255	台灣相思	Acacia confusa  Acacia confusa	130	7	12	FELL	FELL	FELL	
3801	CT224	3801	811636.552	820182.481	台灣相思	Acacia confusa	180	8	12	FELL	FELL	FELL	
3801	CT225	3801	811638.424	820179.225	台灣相思	Acacia confusa	249	8	12	FELL	FELL	FELL	
3801	CT226	3801	811638.866	820172.737	紅膠木	Lophostemon confertus	120	5	9	FELL	FELL	FELL	
3801	CT227	3801	811637.149	820173.115	紅膠木	Lophostemon confertus	110	4	8	FELL	FELL	FELL	
3801 3801	CT228	3801 3801	811635.727 811634.606	820172.814 820175.087	台灣相思	Acacia confusa	160	7	10 7	FELL	FELL	FELL	+
3801	CT229 CT230	3801	811634.606	820175.087	英俚 黃槿	Hibiscus tiliaceus Hibiscus tiliaceus	110 100	5	6	FELL FELL	FELL FELL	FELL FELL	
3801	CT230	3801	811632.835	820174.508	紅膠木	Lophostemon confertus	110	7	6	FELL	FELL	FELL	
3801	CT232	3801	811629.994	820175.478	紅膠木	Lophostemon confertus	100	4	5	FELL	FELL	FELL	
3801	CT233	3801	811628.890	820172.596	楝	Melia azedarach	150	6	7	FELL	FELL	FELL	
3801	CT234	3801	811627.992	820173.085	楝	Melia azedarach	130	5	8	FELL	FELL	FELL	
3801	CT235	3801	811627.127	820173.390	台灣相思	Acacia confusa	120	4	8	FELL	FELL	FELL	
3801 3801	CT236	3801 3801	811626.228 811625.334	820173.720 820174.019	台灣相思	Acacia confusa	160	7	9	FELL	FELL FELI	FELL	
3801	CT237 CT238	3801 3801	811625.334 811625.774	820174.019 820175.690	台灣相思	Acacia confusa Acacia confusa	261 130	8 6	10 9	FELL FELL	FELL FELL	FELL FELL	+
3801	CT238	3801	811627.687	820175.277	台灣相思	Acacia confusa  Acacia confusa	140	5	9	FELL	FELL	FELL	
					INFO			-					

		Current Maintenance						Measurem Crown		Recommendation in LVP			
Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Latin Name	DBH	Spread	Height	(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
							(mm)	(m)	(m)				
Exiting Works					1.44.10.00								
3801 3801	CT240 CT241	3801 3801	811626.430 811627.306	820178.005 820178.934	大葉相思 大葉相思	Acacia mangium	140 200	2	10	FELL FELL	FELL FELL	FELL FELL	
3801	CT242	3801	811634.271	820182.916	死樹	Acacia mangium  Dead tree	100	6	4	FELL	FELL	FELL	
3801	CT243	3801	811627.061	820182.529	棟	Melia azedarach	220	8	9	FELL	FELL	FELL	
3801	CT244	3801	811625.027	820183.954	台灣相思	Acacia confusa	158	5	9	FELL	FELL	FELL	
3801	CT245	3801	811623.381	820183.302	台灣相思	Acacia confusa	100	5	8	FELL	FELL	FELL	
3801	CT246	3801	811622.449	820183.456	台灣相思	Acacia confusa	130	5	11	FELL	FELL	FELL	
3801 3801	CT247	3801 3801	811622.881 811626.322	820185.972 820187.588	棟 台選相里	Melia azedarach	260	9	10	FELL	FELL	FELL FELL	
3801	CT248 CT249	3801	811627.316	820187.632	台灣相思	Acacia confusa Acacia confusa	130 140	6	11 12	FELL FELL	FELL FELL	FELL	
3801	CT250	3801	811626.093	820188.988	台灣相思	Acacia confusa	110	5	10	FELL	FELL	FELL	
3801	CT251	3801	811628.441	820189.007	台灣相思	Acacia confusa	100	6	9	FELL	FELL	FELL	
3801	CT252	3801	811629.038	820188.473	台灣相思	Acacia confusa	100	4	14	FELL	FELL	FELL	
3801	CT253	3801	811628.994	820187.277	台灣相思	Acacia confusa	190	9	15	FELL	FELL	FELL	
3801 3801	CT254	3801 3801	811634.744 811627.857	820190.433 820192.216	台灣相思 大葉相思	Acacia confusa	162	6	9	FELL	FELL	FELL	
3801	CT255 CT256	3801	811620.891	820192.216	台灣相思	Acacia mangium Acacia confusa	350 130	10 6	14	FELL FELL	FELL FELL	FELL FELL	
3801	CT257	3801	811620.248	820191.642	台灣相思	Acacia confusa	110	5	5	FELL	FELL	FELL	
3801	CT258	3801	811618.360	820191.8	台灣相思	Acacia confusa	230	8	13	FELL	FELL	FELL	
3801	CT259	3801	811616.201	820189.564	台灣相思	Acacia confusa	160	8	13	FELL	FELL	FELL	
3801	CT260	3801	811617.578	820188.518	台灣相思	Acacia confusa	150	6	11	FELL	FELL	FELL	
3801	CT261	3801	811616.667	820188.642	台灣相思	Acacia confusa	198	4	12	FELL	FELL	FELL	
3801 3801	CT262	3801 3801	811616.286 811615.407	820186.763 820186.922	台灣相思	Acacia confusa	156	5 6	14	FELL FELL	FELL FELL	FELL FELL	
3801	CT263 CT264	3801	811615.407	820186.922 820191.971	台灣相思 棟	Acacia confusa Melia azedarach	120 220	7	10	FELL	FELL	FELL	
3801	CT265	3801	811608.837	820192.214	黄槿	Hibiscus tiliaceus	130	9	8	FELL	FELL	FELL	
3801	CT266	3801	811607.771	820192.352	黃槿	Hibiscus tiliaceus	110	7	9	FELL	FELL	FELL	
3801	CT267	3801	811605.940	820196.44	台灣相思	Acacia confusa	180	10	9	FELL	FELL	FELL	
3801	CT268	3801	811603.780	820194.29	耳果相思	Acacia auriculiformis	310	5	13	FELL	FELL	FELL	
3801 3801	CT269 CT27	3801 3801	811603.510 811752.679	820195.09 820070.061	耳果相思 台灣相思	Acacia auriculiformis	249	5	13 5	FELL FELL	FELL	FELL FELL	
3801	CT27 CT270	3801	811/52.679	820202.900	台灣相思	Acacia confusa Acacia confusa	120 156	6	10	FELL	FELL FELL	FELL	
3801	CT271	3801	811602.570	820204.130	台灣相思	Acacia confusa	177	8	10	FELL	FELL	FELL	
3801	CT272	3801	811601.180	820204.200	台灣相思	Acacia confusa	177	8	10	FELL	FELL	FELL	
3801	CT273	3801	811595.900	820198.76	楝	Melia azedarach	290	7	10	FELL	FELL	FELL	
3801	CT274	3801	811596.800	820196.99	棟	Melia azedarach	160	6	9	FELL	FELL	FELL	
3801 3801	CT275	3801	811595.840 811595.260	820197.14	楝	Melia azedarach	240	6	11	FELL	FELL	FELL	
3801	CT276 CT277	SLPS 3801	811595.260	820197.820 820196.84	快	Melia azedarach Melia azedarach	100 240	7	5 11	TRANSPLANT FELL	TRANSPLANTED FELL	TRANSPLANTED FELL	
3801	CT278	3801	811593.220	820197.56	台灣相思	Acacia confusa	100	4	4	FELL	FELL	FELL	
3801	CT279	3801	811592.440	820195.41	大葉相思	Acacia mangium	470	8	15	FELL	FELL	FELL	
3801	CT28	3801	811749.735	820076.922	台灣相思	Acacia confusa	110	6	10	FELL	FELL	FELL	
3801	CT280	3801	811588.930	820194.17	棟	Melia azedarach	220	5	15	FELL	FELL	FELL	
3801	CT281	3801 3801	811590.545	820190.559	台灣相思	Acacia confusa	170	8	13	FELL	FELL	FELL	
3801 3801	CT282 CT283	3801	811590.413 811591.912	820189.831 820189.888	台灣相思	Acacia confusa  Acacia confusa	110 130	8	13	FELL FELL	FELL FELL	FELL FELL	
3801	CT284	3801	811592.465	820190.999	台灣相思	Acacia confusa	150	6	14	FELL	FELL	FELL	
3801	CT285	3801	811593.309	820192.003	台灣相思	Acacia confusa	170	6	14	FELL	FELL	FELL	
3801	CT286	3801	811597.544	820189.239	楝	Melia azedarach	410	15	14	FELL	FELL	FELL	
3801	CT287	3801	811598.413	820188.294	台灣相思	Acacia confusa	110	6	6	FELL	FELL	FELL	
3801 3801	CT288 CT289	3801 3801	811599.048 811599.833	820187.264 820186.409	台灣相思	Acacia confusa	160 130	7	12	FELL FELL	FELL FELL	FELL FFI I	
3801	CT29	3801	811748 524	820180.409	台灣相里	Acacia confusa Acacia confusa	230	6	9	FELL	FELL	FELL	
3801	CT290	3801	811600.576	820186.269	台灣相思	Acacia confusa	226	6	14	FELL	FELL	FELL	
3801	CT292	3801	811602.567	820188.954	黃槿	Hibiscus tiliaceus	120	5	7	FELL	FELL	FELL	
3801	CT293	3801	811610.278	820183.583	台灣相思	Acacia confusa	150	6	13	FELL	FELL	FELL	
3801 3801	CT294	3801 3801	811610.664 811613.009	820182.520 820183.408	台灣相思	Acacia confusa	160	8	13	FELL FFLI	FELL	FELL FFI I	
3801	CT295 CT296	3801 3801	811613.009 811615.405	820183.408 820179.992	台灣相思	Acacia confusa Acacia confusa	110 140	7	10	FELL	FELL FELL	FELL FELL	
3801	CT296	3801	811616.217	820179.992	台灣相思	Acacia confusa Acacia confusa	150	8	12	FELL	FELL	FELL	
3801	CT298	3801	811618.344	820180.692	台灣相思	Acacia confusa	130	4	10	FELL	FELL	FELL	
3801	CT299	3801	811618.669	820179.628	台灣相思	Acacia confusa	120	5	10	FELL	FELL	FELL	
3801	CT30	3801	811749.506	820077.887	台灣相思	Acacia confusa	180	5	9	FELL	FELL	FELL	
3801 3801	CT300 CT301	3801 3801	811617.973 811613.979	820179.118 820174.946	台灣相思	Acacia confusa	222 120	7 4	10 7	FELL FELL	FELL FELL	FELL FELL	
3801	CT301 CT302	3801	811613.979	820174.946	古海伯忠   潺槁樹	Acacia confusa Litsea glutinosa	110	5	5	FELL	FELL	FELL	
3801	CT303	3801	811606.791	820175.354	台灣相思	Acacia confusa	170	7	9	FELL	FELL	FELL	
3801	CT304	3801	811605.578	820176.479	台灣相思	Acacia confusa	140	7	9	FELL	FELL	FELL	
3801	CT305	3801	811607.000	820178.026	紅膠木	Lophostemon confertus	110	4	8	FELL	FELL	FELL	
3801	CT306	3801	811608.708	820177.804	紅膠木	Lophostemon confertus	160	5	9	FELL	FELL	FELL	
3801	CT307	3801	811609.093	820179.437	紅膠木	Lophostemon confertus	110	5	9	FELL	FELL	FELL	
3801 3801	CT308 CT31	3801 3801	811609.490 811751.161	820180.219 820077.486	紅膠木	Lophostemon confertus	110	6	7	FELL FELL	FELL FELL	FELL FELL	
3801	CT31 CT310	3801	811/51.161	820077.486	· · · · · · · · · · · · · · · · · · ·	Melia azedarach Hibiscus tiliaceus	110	5	8	FELL	FELL	FELL	
3801	CT311	3801	811600.991	820178.702	台灣相思	Acacia confusa	180	8	12	FELL	FELL	FELL	
3801	CT312	3801	811598.721	820180.011	羊蹄甲屬	Bauhinia spp.	100	4	5	FELL	FELL	FELL	
3801	CT313	3801	811598.031	820178.956	楝	Melia azedarach	210	8	9	FELL	FELL	FELL	
3801	CT314	3801	811598.059	820177.339	棟	Melia azedarach	200	8	7	FELL	FELL	FELL	
3801 3801	CT315	3801 3801	811598.245	820175.703	大葉相思 台灣相思	Acacia mangium	180	8	9	FELL	FELL	FELL	
3801 3801	CT316 CT317	3801 3801	811596.075 811595.119	820176.511 820180.506	台灣相思	Acacia confusa Acacia confusa	100	5	5 10	FELL FELL	FELL FELL	FELL FFI I	
3801	CT318	3801	811600.488	820183.166	大葉相思	Acacia confusa  Acacia mangium	120	10	4	FELL	FELL	FELL	
3801	CT319	3801	811589.055	820183.051	黄槿	Hibiscus tiliaceus	180	8	10	FELL	FELL	FELL	
3801	CT32	3801	811750.827	820079.902	棟	Melia azedarach	230	6	11	FELL	FELL	FELL	
3801	CT320	3801	811588.532	820181.949	黃槿	Hibiscus tiliaceus	100	5	5	FELL	FELL	FELL	
3801	CT321	3801	811588.774	820183.646	黄槿 公湖40円	Hibiscus tiliaceus	120	5	10	FELL	FELL	FELL	
3801	CT322	3801	811590.517	820183.644	台灣相思	Acacia confusa	100	4	9	FELL	FELL	FELL	

		Current Maintenance					Tree	Measuren	nent	Recommendation in LVP			
Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Latin Name	DBH	Spread	Height	(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
		- '					(mm)	(m)	(m)				
Exiting Works C					(+ WM 172777								
3801 3801	CT323 CT324	3801 3801	811588.233 811587.510	820186.440 820186.455	台灣相思	Acacia confusa Acacia confusa	140 170	6	12	FELL FELL	FELL FELL	FELL FELL	
3801	CT325	3801	811586.351	820186.221	台灣相思	Acacia confusa Acacia confusa	160	8	12	FELL	FELL	FELL	
3801	CT326	3801	811584.605	820185.869	台灣相思	Acacia confusa	100	7	11	FELL	FELL	FELL	
3801	CT327	3801	811587.177	820184.553	台灣相思	Acacia confusa	100	5	9	FELL	FELL	FELL	
3801	CT328	3801	811586.244	820184.265	台灣相思	Acacia confusa	130	6	14	FELL	FELL	FELL	
3801	CT329	3801	811585.496	820184.249	台灣相思	Acacia confusa	100	4	12	FELL	FELL	FELL	
3801 3801	CT33	3801 3801	811749.556 811586.581	820079.688 820183.557	棟 蓄模	Melia azedarach	260	10	10	FELL	FELL	FELL FELL	
3801	CT330 CT331	3801	811587.165	820181.696	黄槿	Hibiscus tiliaceus Hibiscus tiliaceus	170 100	8 7	10 7	FELL FELL	FELL FELL	FELL	
3801	CT332	3801	811583.918	820180.155	大葉相思	Acacia mangium	140	4	12	FELL	FELL	FELL	
3801	CT333	3801	811584.895	820179.336	大葉相思	Acacia mangium	210	6	11	FELL	FELL	FELL	
3801	CT334	3801	811581.583	820176.857	黄槿	Hibiscus tiliaceus	180	8	10	FELL	FELL	FELL	
3801	CT335	3801	811580.963	820175.778	黄槿	Hibiscus tiliaceus	200	9	9	FELL	FELL	FELL	
3801 3801	CT336	3801 3801	811579.604 811577.501	820175.243 820175.575	黄槿 棟	Hibiscus tiliaceus	120	7	8	FELL	FELL	FELL	
3801	CT337 CT338	3801	811580.583	820180.042	紅膠木	Melia azedarach Lophostemon confertus	180 100	4	10	FELL FELL	FELL FELL	FELL FELL	
3801	CT339	3801	811580.319	820182.740	台灣相思	Acacia confusa	140	7	11	FELL	FELL	FELL	
3801	CT34	3801	811748.574	820079.676	台灣相思	Acacia confusa	170	6	9	FELL	FELL	FELL	
3801	CT340	3801	811579.356	820183.553	台灣相思	Acacia confusa	110	7	5	FELL	FELL	FELL	
3801	CT341	3801	811577.983	820182.648	台灣相思	Acacia confusa	150	8	12	FELL	FELL	FELL	
3801	CT342	3801	811576.174	820181.160	耳果相思	Acacia auriculiformis	130	4	9	FELL	FELL	FELL	
3801 3801	CT343	3801 3801	811580.652 811579.769	820183.828 820184.596	台灣相思	Acacia confusa	130	7 8	12	FELL	FELL	FELL FELL	
3801	CT344 CT345	3801	811579.769	820184.596 820185.295	台灣相思	Acacia confusa Acacia confusa	170 170	7	12 3	FELL FELL	FELL FELL	FELL	
3801	CT347	3801	811571.962	820183.293	黄槿	Hibiscus tiliaceus	140	8	7	FELL	FELL	FELL	
3801	CT347A	3801	811569.712	820181.571	黄槿	Hibiscus tiliaceus	110	7	8	FELL	FELL	FELL	
3801	CT348	3801	811570.618	820176.739	黄槿	Hibiscus tiliaceus	120	5	5	FELL	FELL	FELL	
3801	CT348A	3801	811570.306	820180.994	黄槿	Hibiscus tiliaceus	110	7	8	FELL	FELL	FELL	
3801 3801	CT349	3801 3801	811571.688 811747.949	820176.833 820078.950	黄槿 台灣相思	Hibiscus tiliaceus	120	5	7	FELL	FELL	FELL	
3801	CT35	3801 3801	811747.949 811571.441	820078.950 820176.083	台灣相思 黃槿	Acacia confusa Hibiscus tiliaceus	130 140	6	9 8	FELL FELL	FELL FELL	FELL FELL	
3801	CT351	3801	811572.443	820173.627	模	Melia azedarach	180	6	9	FELL	FELL	FELL	
3801	CT352	3801	811569.070	820173.973	紅膠木	Lophostemon confertus	120	5	8	FELL	FELL	FELL	
3801	CT353	3801	811568.271	820174.479	紅膠木	Lophostemon confertus	180	8	13	FELL	FELL	FELL	
3801	CT354	3801	811566.584	820173.781	台灣相思	Acacia confusa	130	8	14	FELL	FELL	FELL	
3801	CT355	3801	811566.157	820174.421	台灣相思	Acacia confusa	160	7	14	FELL	FELL	FELL	
3801 3801	CT356	3801 3801	811565.050 811563.000	820176.274 820174.348	台灣相思 黃花夾竹桃	Acacia confusa	190	9	11 5	FELL	FELL	FELL	
3801	CT356A CT357	3801	811562.290	820169.075	黄椎	Thevetia peruviana Hibiscus tiliaceus	120	7	5	FELL FELL	FELL FELL	FELL FELL	
3801	CT358	3801	811561.220	820169.530	黄槿	Hibiscus tiliaceus	130	6	6	FELL	FELL	FELL	
3801	CT359	3801	811562.410	820166.168	黄槿	Hibiscus tiliaceus	180	7	9	FELL	FELL	FELL	
3801	CT36	3801	811748.387	820082.323	台灣相思	Acacia confusa	110	6	7	FELL	FELL	FELL	
3801	CT360	3801	811563.474	820167.774	黄槿	Hibiscus tiliaceus	100	5	4	FELL	FELL	FELL	
3801 3801	CT361 CT362	3801 3801	811557.571 811556.710	820164.222 820163.534	黄槿 黄槿	Hibiscus tiliaceus Hibiscus tiliaceus	200 170	9	10 9	FELL FELL	FELL FELL	FELL FELL	
3801	CT363	3801	811556.379	820166.009	台灣相思	Acacia confusa	150	7	11	FELL	FELL	FELL	
3801	CT364	3801	811556.397	820169.840	黄槿	Hibiscus tiliaceus	170	7	10	FELL	FELL	FELL	
3801	CT365	3801	811556.338	820170.816	黃槿	Hibiscus tiliaceus	230	10	10	FELL	FELL	FELL	
3801	CT366	3801	811554.484	820168.727	黄槿	Hibiscus tiliaceus	110	4	7	FELL	FELL	FELL	
3801	CT369	3801	811545.411	820159.783	台灣相思	Acacia confusa	120	7	7	FELL	FELL	FELL	
3801 3801	CT369A CT37	3801 3801	811546.329 811750.258	820157.769 820081.748	黄花夾竹桃 台灣相思	Thevetia peruviana Acacia confusa	120 150	5	5 6	FELL FELL	FELL FELL	FELL FELL	
3801	CT370	3801	811539.719	820144.976	黄槿	Hibiscus tiliaceus	150	5	9	FELL	FELL	FELL	
3801	CT371	3801	811540.311	820145.315	死樹	Dead tree	160	5	9	FELL	FELL	FELL	
3801	CT372	3801	811542.162	820144.061	楝	Melia azedarach	170	8	12	FELL	FELL	FELL	
3801	CT373	3801	811541.862	820141.012	棟	Melia azedarach	110	5	9	FELL	FELL	FELL	
3801	CT374	3801	811541.995	820140.255	棟	Melia azedarach	150	5	9	FELL	FELL	FELL	
3801 3801	CT375 CT376	3801 3801	811540.395 811539.691	820138.731 820138.373	台灣相思 台灣相思	Acacia confusa Acacia confusa	140 100	7	10	FELL FELL	FELL FELL	FELL FELL	
3801	CT377	3801	811540.038	820137.499	台灣相思	Acacia confusa	140	5	13	FELL	FELL	FELL	
3801	CT378	3801	811541.467	820138.117	台灣相思	Acacia confusa	160	6	10	FELL	FELL	FELL	
3801	CT379	3801	811542.477	820136.790	台灣相思	Acacia confusa	130	7	9	FELL	FELL	FELL	
3801	CT37A	3801	811749.695	820082.564	台灣相思	Acacia confusa	110	5	5	FELL	FELL	FELL	
3801 3801	CT38	3801 3801	811747.748 811541.016	820087.335 820135.756	台灣相思 黃槿	Acacia confusa	160	5	5	FELL	FELL	FELL	
3801 3801	CT380 CT381	3801 3801	811541.016 811541.415	820135.756 820135.206	黄槿 黄槿	Hibiscus tiliaceus Hibiscus tiliaceus	180 277	6 8	10 11	FELL FELL	FELL FELL	FELL FELL	
3801	CT382	3801	811544.472	820135.200	大葉相思	Acacia mangium	200	7	13	FELL	FELL	FELL	
3801	CT383	3801	811545.009	820136.290	大葉相思	Acacia mangium	150	5	11	FELL	FELL	FELL	
3801	CT384	3801	811546.860	820134.049	楝	Melia azedarach	130	8	5	FELL	FELL	FELL	
3801	CT385	3801	811547.407	820133.621	棟	Melia azedarach	390	10	13	FELL	FELL	FELL	
3801 3801	CT386	3801 3801	811545.164 811546.463	820131.244	棟 青樺	Melia azedarach	210	6	14	FELL	FELL	FELL	
3801	CT387 CT388	3801 3801	811546.463 811549.776	820129.222 820127.886	黄隆 台灃相思	Hibiscus tiliaceus Acacia confusa	130	6	9 8	FELL FELL	FELL FELL	FELL FFI I	
3801	CT389	3801	811550.014	820127.527	<u>ロ</u> 應相応 棟	Melia azedarach	230	7	14	FELL	FELL	FELL	
3801	CT39	3801	811746.892	820087.273	台灣相思	Acacia confusa	200	6	9	FELL	FELL	FELL	
3801	CT390	3801	811550.829	820128.488	台灣相思	Acacia confusa	140	5	8	FELL	FELL	FELL	
3801	CT391	3801	811551.538	820127.006	楝	Melia azedarach	110	4	9	FELL	FELL	FELL	
3801	CT392	3801	811551.629	820128.109	台灣相思	Acacia confusa	260	9	15	FELL	FELL	FELL	
3801 3801	CT393	3801 3801	811552.278 811554.501	820127.864 820126.665	台灣相思	Acacia confusa  Molia azadarach	130 190	5 6	9	FELL FELL	FELL FELL	FELL FELL	
3801	CT394 CT395	3801 3801	811554.501 811556.164	820126.665 820124.991	棟	Melia azedarach Melia azedarach	190 150	5	15 9	FELL FELL	FELL FELL	FELL FELL	
3801	CT395	3801	811556.164	820124.991 820124.196	棟	Melia azedarach	250	7	15	FELL	FELL	FELL	
3801	CT396	3801	811563.497	820122.778	台灣相思	Acacia confusa	160	7	10	FELL	FELL	FELL	
3801	CT398	3801	811563.466	820124.198	台灣相思	Acacia confusa	140	6	7	FELL	FELL	FELL	
			811564,981	820123.600	台灣相思	Acacia confusa	140	6	10	FELL	FELL	FELL	
3801 3801 3801	CT399 CT40	3801 3801	811744.787	820085.847	棟	Melia azedarach	240	7	8	FELL	FELL	FELL	

		Current Maintenance					Tree	Measuren		Recommendation in LVP			
Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Latin Name	DBH	Crown Spread	Height	(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
							(mm)	(m)	(m)				
Exiting Works													
3801 3801	CT400 CT401	3801 3801	811564.628 811564.289	820124.241 820125.226	台灣相思	Acacia confusa	130 150	9	9	FELL FELL	FELL FELL	FELL FELL	
3801	CT401 CT402	3801 3801	811564.289 811565.217	820125.226	台灣相思	Acacia confusa Acacia confusa	100	5	8	FELL	FELL	FELL	
3801	CT402	3801	811564.839	820126.036	台灣相思	Acacia confusa	120	5	12	FELL	FELL	FELL	
3801	CT404	3801	811562.956	820127.747	黄花夾竹桃	Thevetia peruviana	117	4	7	FELL	FELL	FELL	
3801	CT405	3801	811563.674	820127.654	黄花夾竹桃	Thevetia peruviana	100	3	9	FELL	FELL	FELL	
3801	CT406	3801	811565.776	820126.154	台灣相思	Acacia confusa	140	7	12	FELL	FELL	FELL	
3801 3801	CT407	3801 3801	811567.132 811570.464	820127.264 820127.440	黄花夾竹桃 盖花本竹桃	Thevetia peruviana	136	4	9 7	FELL	FELL	FELL	
3801	CT408 CT409	3801	811570.464	820127.440 820127.057	英化类订格 大葉相思	Thevetia peruviana	146 310	8	15	FELL FELL	FELL FELL	FELL FELL	
3801	CT41	3801	811743.761	820089.377	棟	Acacia mangium Melia azedarach	100	4	6	FELL	FELL	FELL	
3801	CT410	3801	811574.436	820127.371	銀合歡	Leucaena leucocephala	100	6	13	FELL	FELL	FELL	
3801	CT411	3801	811568.800	820121.917	大葉相思	Acacia mangium	160	8	14	FELL	FELL	FELL	
3801	CT412	3801	811577.448	820126.902	大葉相思	Acacia mangium	230	7	14	FELL	FELL	FELL	
3801	CT413	3801	811577.714	820127.244	大葉相思	Acacia mangium	140	5	15	FELL	FELL	FELL	
3801 3801	CT414	3801 3801	811581.792 811582.341	820124.546 820125.869	紅膠木 羊蹄甲屬	Lophostemon confertus	120	5	9	FELL	FELL	FELL	
3801	CT415 CT416	3801	811582.341 811583.838	820125.869 820126.617	- 神田中層 - 棟	Bauhinia spp.  Melia azedarach	130 160	- 7 - 6	15	FELL FELL	FELL FELL	FELL FELL	
3801	CT417	3801	811584.964	820126.648	棒	Melia azedarach	150	6	12	FELL	FELL	FEII	
3801	CT418	3801	811585.571	820126.089	台灣相思	Acacia confusa	150	8	5	FELL	FELL	FELL	
3801	CT419	3801	811586.362	820126.210	台灣相思	Acacia confusa	140	9	13	FELL	FELL	FELL	
3801	CT42	3801	811746.165	820089.613	台灣相思	Acacia confusa	170	5	7	FELL	FELL	FELL	
3801 3801	CT420	3801 3801	811587.302	820126.117	台灣相思	Acacia confusa	170	5	11	FELL	FELL	FELL	
3801	CT421	3801 3801	811588.630 811590.441	820126.027 820126.009	台灣相思 台灣相思	Acacia confusa	150 150	8	12	FELL	FELL FELL	FELL FELL	
3801	CT422 CT423	3801	811590.441 811590.945	820126.009 820126.389	台灣相思 台灣相思	Acacia confusa Acacia confusa	150	9 10	12 11	FELL FELL	FELL	FELL	
3801	CT424	3801	811591.889	820125.298	台灣相思	Acacia confusa	100	5	6	FELL	FELL	FELL	
3801	CT425	3801	811592.963	820124.931	台灣相思	Acacia confusa	110	4	6	FELL	FELL	FELL	
3801	CT426	3801	811593.562	820125.921	台灣相思	Acacia confusa	160	10	14	FELL	FELL	FELL	
3801	CT427	3801	811593.957	820125.913	死樹	Dead tree	170	8	12	FELL	FELL	FELL	
3801 3801	CT428 CT429	3801 3801	811594.525 811599.937	820125.174 820122.669	台灣相思 台灣相思	Acacia confusa Acacia confusa	170 140	11 5	13 13	FELL FELL	FELL FELL	FELL FELL	
3801	CT43	3801	811742.235	820095.116	台灣相思	Acacia confusa Acacia confusa	206	- 8	8	FELL	FELL	FELL	
3801	CT430	3801	811604.440	820121.972	大葉相思	Acacia mangium	140	8	12	FELL	FELL	FELL	
3801	CT431	3801	811605.429	820122.065	大葉相思	Acacia mangium	210	9	13	FELL	FELL	FELL	
3801	CT432	3801	811606.256	820123.023	大葉相思	Acacia mangium	120	6	8	FELL	FELL	FELL	
3801	CT433	3801	811606.493	820122.058	大葉相思	Acacia mangium	160	5	11	FELL	FELL	FELL	
3801 3801	CT434	3801 3801	811607.521 811609.123	820122.902 820122.279	大葉相思	Acacia mangium	240	8	14	FELL	FELL	FELL	
3801	CT435 CT436	3801	811609.123 811606.825	820122.279 820126.286	* 羊蹄甲屬	Melia azedarach Bauhinia spp.	230 130	7	14	FELL FELL	FELL FELL	FELL FELL	
3801	CT437	3801	811608.822	820125.772	主路甲屬	Bauhinia spp.	150	9	8	FELL	FELL	FELL	
3801	CT438	3801	811610.717	820125.653	羊蹄甲屬	Bauhinia spp.	120	5	10	FELL	FELL	FELL	
3801	CT439	3801	811611.915	820122.181	楝	Melia azedarach	210	7	13	FELL	FELL	FELL	
3801	CT44	3801	811742.018	820096.878	台灣相思	Acacia confusa	140	5	8	FELL	FELL	FELL	
3801 3801	CT440	3801 3801	811616.465 811618.568	820121.391 820121.241	台灣相思 台灣相思	Acacia confusa	230	7	10	FELL	FELL FELL	FELL	
3801	CT441 CT442	3801	811618.568	820121.241	台灣相思	Acacia confusa	180 110	8	6	FELL FELL	FELL	FELL FELL	
3801	CT443	3801	811623.012	820121:140	台灣相思	Acacia confusa Acacia confusa	130	5	10	FELL	FELL	FELL	
3801	CT444	3801	811624.418	820119.154	紅膠木	Lophostemon confertus	110	5	7	FELL	FELL	FELL	
3801	CT445	3801	811621.031	820124.575	台灣相思	Acacia confusa	110	4	7	FELL	FELL	FELL	
3801	CT446	3801	811622.188	820124.470	台灣相思	Acacia confusa	160	8	10	FELL	FELL	FELL	
3801 3801	CT447	3801 3801	811625.011 811625.935	820123.776 820123.460	台灣相思	Acacia confusa	210	9	14	FELL	FELL	FELL	
3801	CT448 CT449	3801	811626.961	820123.328	台灣相思	Acacia confusa Acacia confusa	130 120	8 8	13 14	FELL FELL	FELL FELL	FELL FELL	
3801	CT45	3801	811740.882	820098.639	台灣相思	Acacia confusa	130	5	7	FELL	FELL	FELL	
3801	CT450	3801	811627.752	820123.101	台灣相思	Acacia confusa	120	5	14	FELL	FELL	FELL	
3801	CT451	3801	811628.511	820122.961	台灣相思	Acacia confusa	220	9	15	FELL	FELL	FELL	
3801	CT452	3801	811630.122	820120.083	大葉相思	Acacia mangium	190	7	10	FELL	FELL	FELL	
3801 3801	CT453 CT454	3801 3801	811636.933 811637.853	820117.605 820116.964	台灣相思 台灣相思	Acacia confusa  Acacia confusa	190 160	- 8 - 6	11 11	FELL FELL	FELL FELL	FELL FELL	
3801	CT454 CT455	3801	811637.853 811640.899	820116.964 820116.177	百灣相思 耳果相思	Acacia contusa  Acacia auriculiformis	280	7	15	FELL	FELL	FELL	
3801	CT456	3801	811641.336	820116.099	大葉相思	Acacia mangium	190	5	12	FELL	FELL	FELL	
3801	CT457	3801	811640.144	820117.408	大葉相思	Acacia mangium	190	7	13	FELL	FELL	FELL	
3801	CT458	3801	811647.587	820116.440	羊蹄甲屬	Bauhinia spp.	120	6	7	FELL	FELL	FELL	
3801 3801	CT459	3801 3801	811650.024 811740.407	820113.891 820098.008	大葉相思 台灣相思	Acacia mangium	320	8	15 9	FELL	FELL	FELL	
3801	CT46 CT460	3801 3801	811740.407 811650.238	820098.008 820112.821	台灣相思	Acacia confusa  Acacia confusa	170 200	6	8	FELL FELL	FELL FELL	FELL FELL	
3801	CT461	3801	811651.801	820112.943	大葉相思	Acacia mangium	230	6	13	FELL	FELL	FELL	
3801	CT462	3801	811652.783	820110.938	台灣相思	Acacia confusa	170	2	5	FELL	FELL	FELL	
3801	CT463	3801	811655.205	820111.821	台灣相思	Acacia confusa	130	10	12	FELL	FELL	FELL	
3801	CT464	3801	811655.382	820110.962	台灣相思	Acacia confusa	100	5	5	FELL	FELL	FELL	
3801	CT465	3801	811656.252	820110.739	台灣相思	Acacia confusa	150	7	12	FELL	FELL	FELL	
3801 3801	CT466 CT467	3801 3801	811658.259 811657.594	820111.001 820109.536	羊蹄甲屬 台灣相思	Bauhinia spp. Acacia confusa	100	7	7	FELL FELL	FELL FELL	FELL FFII	
3801	CT468	3801	811663.670	820109.536	台灣相思	Acacia confusa	280	8	14	FELL	FELL	FELL	
3801	CT469	3801	811664.861	820107.684	台灣相思	Acacia confusa	210	7	12	FELL	FELL	FELL	
3801	CT47	3801	811739.809	820097.621	台灣相思	Acacia confusa	166	6	7	FELL	FELL	FELL	
3801	CT470	3801	811668.850	820104.569	楝	Melia azedarach	190	8	15	FELL	FELL	FELL	
3801	CT471	3801	811671.853	820101.349	紅膠木	Lophostemon confertus	190	8	10	FELL	FELL	FELL	
3801 3801	CT472 CT473	3801 3801	811683.171 811684.071	820096.999 820095.415	大葉相思 台灣相思	Acacia mangium	300 190	8 8	14	FELL FELL	FELL FELL	FELL FELL	
3801	CT473 CT474	3801 3801	811684.071 811685.045	820095.415 820093.647	台灣相思	Acacia confusa Acacia confusa	190 170	7	15 15	FELL FELL	FELL FELL	FELL FELL	
3801	CT475	3801	811685.045 811686.829	820093.647 820095.120	海標相 湯橋樹	Litsea qlutinosa	100	3	5	FELL	FELL	FELL	
3801	CT476	3801	811687.830	820093.042	台灣相思	Acacia confusa	220	6	4	FELL	FELL	FELL	
3801	CT477	3801	811688.458	820091.561	台灣相思	Acacia confusa	250	11	14	FELL	FELL	FELL	
3801	CT478	3801	811689.519	820091.909	台灣相思	Acacia confusa	320	12	15	FELL	FELL	FELL	
3801	CT479	3801	811689.985	820094.007	黃花夾竹桃	Thevetia peruviana	100	5	8	FELL	FELL	FELL	

		Current Maintenance					Tree	Measuren	nent	Recommendation in LVP			
Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Latin Name	DBH	Crown Spread	Height	(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
		J,					(mm)	(m)	(m)	, , ,			
Exiting Works													
3801 3801	CT480 CT481	3801 3801	811691.131 811691.718	820093.457 820092.772	黄花夾竹桃 苗花夾竹桃	Thevetia peruviana	100	7	6	FELL FELL	FELL	FELL FELL	
3801	CT481 CT482	3801 3801	811691.718	820092.772	寅化火门係 羊蹄甲屬	Thevetia peruviana Bauhinia spp.	110 120	5	4	FELL	FELL FELL	FELL	
3801	CT483	3801	811692.459	820089.034	黄槿	Hibiscus tiliaceus	130	5	9	FELL	FELL	FELL	
3801	CT484	3801	811694.017	820087.966	楝	Melia azedarach	270	5	16	FELL	FELL	FELL	
3801	CT485	3801	811694.423	820087.391	台灣相思	Acacia confusa	130	5	9	FELL	FELL	FELL	
3801	CT486	3801	811694.801	820088.751	羊蹄甲屬	Bauhinia spp.	130	8	6	FELL	FELL	FELL	
3801	CT487	3801 3801	811695.713 811697.804	820089.786 820086.572	· 楝	Melia azedarach	320	8	13	FELL	FELL	FELL	
3801	CT488 CT489	3801 3801	811697.804 811698.732	820086.572 820085.742	大葉相思	Melia azedarach	280 150	9	11 9	FELL	FELL	FELL FELL	
3801	CT490	3801	811698.649	820085.337	大葉相思	Acacia mangium  Acacia mangium	480	10	15	FELL FELL	FELL FELL	FELL	
3801	CT490	3801	811698.397	820084.309	大葉相思	Acacia mangium	310	8	14	FELL	FELL	FELL	
3801	CT492	3801	811700.729	820082.547	大葉相思	Acacia mangium	110	2	8	FELL	FELL	FELL	
3801	CT493	3801	811701.690	820083.460	大葉相思	Acacia mangium	140	5	8	FELL	FELL	FELL	
3801	CT494	3801	811702.346	820082.617	大葉相思	Acacia mangium	230	8	14	FELL	FELL	FELL	
3801	CT495	3801	811701.812	820081.676	大葉相思	Acacia mangium	280	7	13	FELL	FELL	FELL	
3801 3801	CT496	3801 3801	811703.190 811704.000	820082.497 820081.022	大葉相思 台灣相思	Acacia mangium	170	6	13	FELL	FELL	FELL	
3801	CT497 CT498	3801	811704.600	820081.022	台灣相思	Acacia confusa Acacia confusa	110 160	7	12	FELL FELL	FELL FELL	FELL FFII	
3801	CT498	3801	811705.521	820079.793	台灣相思	Acacia confusa	120	5	13	FELL	FELL	FELL	
3801	CT50	3801	811733.587	820104.750	羊蹄甲屬	Bauhinia spp.	130	5	5	FELL	FELL	FELL	
3801	CT500	3801	811705.686	820078.834	台灣相思	Acacia confusa	150	2	6	FELL	FELL	FELL	
3801	CT501	3801	811706.372	820081.647	台灣相思	Acacia confusa	226	7	12	FELL	FELL	FELL	
3801	CT501A	3801	811707.392	820080.549	台灣相思	Acacia confusa	110	6	10	FELL	FELL	FELL	
3801	CT502	3801	811707.000	820079.000	台灣相思	Acacia confusa	140	5	11	FELL	FELL	FELL	
3801 3801	CT503 CT504	3801 3801	811708.760 811709.981	820077.670 820078.056	台灣相思	Acacia confusa Acacia confusa	227 110	8	13	FELL FELL	FELL FELL	FELL FELL	
3801	CT504	3801	811710.965	820077.751	台灣相思	Acacia confusa  Acacia confusa	184	8	15	FELL	FELL	FELL	
3801	CT506	3801	811715.970	820073.136	黄槿	Hibiscus tiliaceus	178	6	10	FELL	FELL	FELL	
3801	CT507	3801	811718.047	820071.040	黄槿	Hibiscus tiliaceus	110	7	6	FELL	FELL	FELL	
3801	CT508	3801	811713.210	820072.231	台灣相思	Acacia confusa	120	5	10	FELL	FELL	FELL	
3801	CT509	3801	811713.841	820072.123	台灣相思	Acacia confusa	156	5	10	FELL	FELL	FELL	
3801 3801	CT51	3801 3801	811735.070 811713.814	820106.072 820071.502	大葉相思 台灣相思	Acacia mangium	140	3	9	FELL	FELL	FELL	
3801	CT510 CT511	3801	811714.260	820071.302	台灣相思	Acacia confusa Acacia confusa	120	5	11	FELL FELL	FELL FELL	FELL FELL	
3801	CT512	3801	811715.178	820070.421	台灣相思	Acacia confusa	180	5	12	FELL	FELL	FELL	
3801	CT513	3801	811715.650	820070.497	台灣相思	Acacia confusa	230	8	12	FELL	FELL	FELL	
3801	CT514	3801	811716.689	820069.425	台灣相思	Acacia confusa	110	5	8	FELL	FELL	FELL	
3801	CT515	3801	811718.195	820067.333	大葉相思	Acacia mangium	180	6	12	FELL	FELL	FELL	
3801	CT516	3801	811719.139	820067.499	大葉相思	Acacia mangium	270	9	13	FELL	FELL	FELL	
3801 3801	CT517	3801 3801	811719.954 811720.709	820065.740 820065.931	大葉相思	Acacia mangium	110	4	11	FELL	FELL	FELL	
3801	CT518 CT519	3801	811721.150	820064.339	大葉相思 大葉相思	Acacia mangium Acacia mangium	150 100	2	7	FELL FELL	FELL FELL	FELL FELL	
3801	CT52	3801	811738.477	820108.984	銀合歡	Leucaena leucocephala	140	6	9	FELL	FELL	FELL	
3801	CT520	3801	811722.188	820064.339	大葉相思	Acacia mangium	160	4	10	FELL	FELL	FELL	
3801	CT521	3801	811721.725	820063.689	大葉相思	Acacia mangium	190	5	12	FELL	FELL	FELL	
3801	CT522	3801	811723.744	820061.349	台灣相思	Acacia confusa	100	2	5	FELL	FELL	FELL	
3801 3801	CT523	3801 3801	811725.635 811726.999	820061.600 820061.395	台灣相思棟	Acacia confusa	160	6 7	9	FELL	FELL	FELL	
3801	CT524 CT525	3801 3801	811726.999 811726.418	820051.395 820059.608	紅膠木	Melia azedarach Lophostemon confertus	260 120	3	10 5	FELL FELL	FELL FELL	FELL FELL	
3801	CT526	3801	811727.427	820059.515	台灣相思	Acacia confusa	130	4	7	FELL	FELL	FELL	
3801	CT528	3801	811727.783	820058.111	台灣相思	Acacia confusa	180	8	12	FELL	FELL	FELL	
3801	CT529	3801	811728.910	820058.908	棟	Melia azedarach	220	5	12	FELL	FELL	FELL	
3801	CT53	3801	811736.538	820109.681	大葉相思	Acacia mangium	160	4	9	FELL	FELL	FELL	
3801	CT532	3801	811731.196	820053.918	大葉相思	Acacia mangium	120	5	9	FELL	FELL	FELL	
3801 3801	CT533 CT534	3801 3801	811732.426 811733.116	820053.158 820053.205	大葉相思 大葉相思	Acacia mangium	100 250	5 6	9	FELL FELL	FELL FELL	FELL FELL	
3801	CT534	3801	811733.116	820053.205	大薬相思 大薬相思	Acacia mangium Acacia mangium	170	6	11	FELL	FELL	FELL	
3801	CT536	3801	811733.249	820050.840	大葉相思	Acacia mangium	190	5	10	FELL	FELL	FELL	
3801	CT537	3801	811737.093	820047.748	黃槿	Hibiscus tiliaceus	130	6	8	FELL	FELL	FELL	
3801	CT538	3801	811737.978	820045.486	大葉相思	Acacia mangium	260	9	12	FELL	FELL	FELL	
3801	CT539	3801	811740.969	820044.556	耳果相思	Acacia auriculiformis	100	5	9	FELL	FELL	FELL	
3801 3801	CT54	3801 3801	811735.914 811741.432	820110.362 820040.669	大葉相思	Acacia mangium	100	4	6	FELL	FELL	FELL	
3801	CT540 CT541	3801	811741.432 811743.035	820040.669 820039.490	台灣相思	Acacia confusa Acacia confusa	200 160	10 6	10	FELL FELL	FELL FELL	FELL FELL	
3801	CT542	3801	811743.432	820039.490	台灣相思	Acacia confusa	180	7	11	FELL	FELL	FELL	
3801	CT543	3801	811742.825	820038.029	台灣相思	Acacia confusa	230	8	11	FELL	FELL	FELL	
3801	CT544	3801	811743.665	820037.876	台灣相思	Acacia confusa	190	7	10	FELL	FELL	FELL	
3801	CT545	3801	811739.268	820049.919	<b>潺槁樹</b>	Litsea glutinosa	150	5	6	FELL	FELL	FELL	
3801	CT546	3801	811741.343	820056.363	台灣相思	Acacia confusa	120	5	7	FELL	FELL	FELL	
3801	CT547	3801	811732.375	820058.426	潺槁樹 **	Litsea qlutinosa	140	5	6	FELL	FELL	FELL	
3801 3801	CT548 CT549	3801 3801	811722.478 811716.561	820073.696 820079.409	棟	Melia azedarach Melia azedarach	310 260	8	11	FELL	FELL FELL	FELL FELL	
3801	CT55	3801	811736.649	820111.144	大葉相思	Acacia mangium	280	5	11	FELL	FELL	FELL	
3801	CT555	3801	811695.021	820105.536	銀合歡	Leucaena leucocephala	162	4	12	FELL	FELL	FELL	
3801	CT556	3801	811693.206	820106.820	銀合歡	Leucaena leucocephala	162	6	13	FELL	FELL	FELL	
3801	CT557	3801	811685.459	820100.681	死樹	Dead tree	200	3	5	FELL	FELL	FELL	
3801	CT558	3801	811684.391	820104.330	死樹	Dead tree	170	3	4	FELL	FELL	FELL	
3801 3801	CT559	3801 3801	811684.993	820106.267	銀合歡	Leucaena leucocephala	135	6	14	FELL	FELL	FELL	
3801 3801	CT56 CT561	3801 3801	811734.516 811684.815	820113.249 820110.600	紅膠木 銀合歡	Lophostemon confertus	110 232	8	5 14	FELL FELL	FELL FELL	FELL FELL	
3801	CT562	3801	811682.641	820110.503	椰子	Leucaena leucocephala Cocos nucifera	190	4	5	FELL	FELL	FELL	
3801	CT563	3801	811682.432	820118.340	棟	Melia azedarach	170	10	14	FELL	FELL	FELL	
3801	CT564	3801	811677.881	820117.771	黄花夾竹桃	Thevetia peruviana	110	3	4	FELL	FELL	FELL	
3801	CT565	3801	811680.359	820119.373	黃花夾竹桃	Thevetia peruviana	232	5	8	FELL	FELL	FELL	
3801	CT566	3801	811681.461	820121.944	台灣相思	Acacia confusa	240	10	14	FELL	FELL	FELL	
3801	CT567	3801	811682.761	820123.636	台灣相思	Acacia confusa	120	7	14	FELL	FELL	FELL	

		Current Maintenance						Measurem Crown		Recommendation in LVP			
Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Latin Name	DBH	Spread	Height	(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
							(mm)	(m)	(m)				
Exiting Works		3801	811684.787	820123.500	台灣相思	4							
3801 3801	CT568 CT569	3801 3801	811684.787 811684.243	820123.500 820124.115	台灣相思	Acacia confusa	170 160	10	13 15	FELL FELL	FELL FELL	FELL FELL	
3801	CT57	3801	811730.716	820124.115	主席作心 羊蹄甲屬	Acacia confusa Bauhinia spp.	120	10 4	3	FELL	FELL	FELL	
3801	CT570	3801	811687.861	820123.538	台灣相思	Acacia confusa	150	5	5	FELL	FELL	FELL	
3801	CT571	3801	811686.055	820126.012	台灣相思	Acacia confusa	250	9	11	FELL	FELL	FELL	
3801	CT572	3801	811683.843	820125.468	棟	Melia azedarach	240	10	5	FELL	FELL	FELL	
3801	CT573	3801 3801	811680.728 811678.298	820124.520	大葉相思 大葉相思	Acacia mangium	180	10	10	FELL	FELL	FELL	
3801 3801	CT574 CT575	3801	811678.298	820124.801 820124.466	大薬相思	Acacia mangium	110 270	8	9	FELL FELL	FELL FELL	FELL FELL	
3801	CT576	3801	811677.027	820123.856	大葉相思	Acacia mangium Acacia mangium	130	5	9	FELL	FELL	FELL	
3801	CT577	3801	811676.923	820122.893	大葉相思	Acacia mangium	160	5	9	FELL	FELL	FELL	
3801	CT578	3801	811674.008	820125.277	楝	Melia azedarach	160	10	10	FELL	FELL	FELL	
3801	CT579	3801	811673.845	820125.904	棟	Melia azedarach	250	10	15	FELL	FELL	FELL	
3801	CT58	3801	811729.951	820109.747	台灣相思	Acacia confusa	184	6	8	FELL	FELL	FELL	
3801 3801	CT580	3801 3801	811680.676 811679.211	820127.920 820130.713	羊蹄甲屬 台灣相思	Bauhinia spp.	120	9	10	FELL	FELL	FELL	
3801	CT581 CT582	3801	811680.000	820130.713 820130.848	台灣相思	Acacia confusa	140 150	7	13 12	FELL FELL	FELL FELL	FELL FELL	
3801	CT583	3801	811680.782	820131.188	台灣相思	Acacia confusa Acacia confusa	190	6	13	FELL	FELL	FELL	
3801	CT584	3801	811679.250	820131.256	台灣相思	Acacia confusa	130	5	12	FELL	FELL	FELL	
3801	CT585	3801	811679.431	820132.418	台灣相思	Acacia confusa	170	7	14	FELL	FELL	FELL	
3801	CT586	3801	811677.985	820131.842	台灣相思	Acacia confusa	120	5	14	FELL	FELL	FELL	
3801	CT587	3801	811678.203	820131.061	台灣相思	Acacia confusa	120	5	12	FELL	FELL	FELL	
3801 3801	CT588	3801 3801	811677.008 811672.651	820131.609 820130.192	台灣相思	Acacia confusa	170	7 5	7	FELL	FELL	FELL FELL	
3801	CT589 CT59	3801	811672.651	820130.192 820111.344	英健 台灣相思	Hibiscus tiliaceus Acacia confusa	130 150	3	9	FELL FELL	FELL FELL	FELL	
3801	CT590	3801	811669.397	820132.110	棟	Melia azedarach	220	8	11	FELL	FELL	FELL	
3801	CT591	3801	811669.850	820132.892	楝	Melia azedarach	130	6	10	FELL	FELL	FELL	
3801	CT592	3801	811670.361	820133.727	楝	Melia azedarach	210	9	11	FELL	FELL	FELL	
3801	CT593	3801	811676.391	820135.223	台灣相思	Acacia confusa	262	9	13	FELL	FELL	FELL	
3801 3801	CT594	3801 3801	811667.884 811667.767	820146.255 820147.457	棟	Melia azedarach	280	10	13	FELL	FELL	FELL	
3801	CT595 CT596	3801 3801	811667.767 811671.796	820147.457 820143.142	快 台灣相思	Melia azedarach Acacia confusa	180 301	5 12	11	FELL FELL	FELL FELL	FELL FELL	
3801	CT597	3801	811674.187	820142.143	台灣相思	Acacia confusa	262	8	12	FELL	FELL	FELL	
3801	CT598	3801	811677.801	820140.586	台灣相思	Acacia confusa	206	7	11	FELL	FELL	FELL	
3801	CT599	3801	811680.470	820138.077	黃槿	Hibiscus tiliaceus	215	4	11	FELL	FELL	FELL	
3801	CT60	3801	811727.606	820112.655	台灣相思	Acacia confusa	170	5	9	FELL	FELL	FELL	
3801	CT600	3801	811681.389	820140.016	台灣相思	Acacia confusa	180	7	11	FELL	FELL	FELL	
3801 3801	CT601	3801 3801	811683.556 811681.498	820136.642 820135.152	台灣相思 台灣相思	Acacia confusa	143	6	10 13	FELL	FELL	FELL	
3801	CT602 CT604	3801	811686.934	820133.132	模	Acacia confusa Melia azedarach	160 190	5	9	FELL FELL	FELL FELL	FELL FELL	
3801	CT605	3801	811689.640	820132.743	台灣相思	Acacia confusa	100	4	5	FELL	FELL	FELL	
3801	CT606	3801	811687.072	820133.438	棟	Melia azedarach	190	9	10	FELL	FELL	FELL	
3801	CT607	3801	811687.530	820132.713	楝	Melia azedarach	220	6	11	FELL	FELL	FELL	
3801	CT608	3801	811685.586	820131.186	台灣相思	Acacia confusa	180	10	14	FELL	FELL	FELL	
3801 3801	CT609 CT61	3801 3801	811690.192 811728.869	820125.902 820112.829	台灣相思 台灣相思	Acacia confusa Acacia confusa	130 120	5	5 8	FELL FELL	FELL FELL	FELL FELL	
3801	CT610	3801	811692 627	820112.029	台灣相思	Acacia confusa	100	7	5	FELL	FELL	FELL	
3801	CT611	3801	811692.498	820123.154	台灣相思	Acacia confusa	110	7	10	FELL	FELL	FELL	
3801	CT612	3801	811693.533	820122.547	台灣相思	Acacia confusa	130	8	7	FELL	FELL	FELL	
3801	CT613	3801	811694.360	820118.888	羊蹄甲屬	Bauhinia spp.	140	6	6	FELL	FELL	FELL	
3801	CT614	3801	811695.590	820120.299	台灣相思	Acacia confusa	150	5	8	FELL	FELL	FELL	
3801 3801	CT615 CT616	3801 3801	811696.364 811697.005	820119.534 820118.959	台灣相思	Acacia confusa	190	7 5	8	FELL FELL	FELL FELL	FELL FELL	
3801	CT617	3801	811700.510	820121.409	台灣相思	Acacia confusa Acacia confusa	110 130	6	5	FELL	FELL	FELL	
3801	CT618	3801	811698.305	820123.669	台灣相思	Acacia confusa	100	4	4	FELL	FELL	FELL	
3801	CT619	3801	811699.270	820125.260	台灣相思	Acacia confusa	310	12	9	FELL	FELL	FELL	
3801	CT62	3801	811732.446	820114.914	羊蹄甲屬	Bauhinia spp.	140	5	9	FELL	FELL	FELL	
3801	CT620	3801	811702.449	820118.659	台灣相思	Acacia confusa	130	5	7	FELL	FELL	FELL	
3801 3801	CT621 CT622	3801 3801	811703.179 811705.370	820117.873 820115.206	台灣相思 台灣相思	Acacia confusa Acacia confusa	184 140	5 6	7	FELL FELL	FELL FELL	FELL FELL	
3801	CT623	3801	811706.322	820113.206	棟	Melia azedarach	140	4	7	FELL	FELL	FELL	
3801	CT624	3801	811706.909	820112.250	棟	Melia azedarach	220	7	11	FELL	FELL	FELL	
3801	CT625	3801	811704.968	820107.885	台灣相思	Acacia confusa	130	5	9	FELL	FELL	FELL	
3801	CT626	3801	811705.261	820107.528	台灣相思	Acacia confusa	120	6	9	FELL	FELL	FELL	
3801 3801	CT627	3801 3801	811710.856 811711.271	820104.409 820103.560	台灣相思 台灣相思	Acacia confusa	163	5	4 8	FELL	FELL	FELL	
3801	CT628 CT629	3801 3801	811711.271 811709.677	820103.560 820108.246	台灣相思	Acacia confusa Acacia confusa	110 170	7	5	FELL FELL	FELL FELL	FELL FELL	
3801	CT63	3801	811733.066	820116.783	羊蹄甲屬	Bauhinia spp.	140	7	7	FELL	FELL	FELL	
3801	CT630	3801	811712.284	820109.161	大葉相思	Acacia mangium	180	6	8	FELL	FELL	FELL	
3801	CT631	3801	811713.042	820107.669	台灣相思	Acacia confusa	110	5	7	FELL	FELL	FELL	
3801	CT632	3801	811715.233	820105.360	台灣相思	Acacia confusa	100	4	8	FELL	FELL	FELL	
3801	CT633	3801	811715.935	820105.649	棟	Melia azedarach	150	4	8	FELL	FELL	FELL	
3801 3801	CT634 CT635	3801 3801	811715.561 811716.143	820104.807 820104.036	台灣相思	Acacia confusa Acacia confusa	170	7	9	FELL FELL	FELL FELL	FELL FFI I	
3801	CT635	3801	811716.143	820104.036	百海相志 棒	Acacia confusa Melia azedarach	260	7	10	FELL	FELL	FELL	
3801	CT637	3801	811717.532	820104.049	黄花夾竹桃	Thevetia peruviana	110	4	7	FELL	FELL	FELL	
3801	CT638	3801	811720.435	820101.525	楝	Melia azedarach	230	6	8	FELL	FELL	FELL	
3801	CT639	3801	811719.456	820101.346	楝	Melia azedarach	160	7	8	FELL	FELL	FELL	
3801	CT64	3801	811732.053	820118.692	羊蹄甲屬	Bauhinia spp.	110	6	5	FELL	FELL	FELL	
3801 3801	CT640 CT641	3801 3801	811718.448 811719.755	820099.422 820097.002	台灣相思	Acacia confusa	120	- 4	8	FELL FELL	FELL FELL	FELL FELL	
3801	CT641 CT642	3801 3801	811719.755 811717.520	820097.002 820094.261	台灣相思	Acacia confusa Acacia confusa	120	7	10	FELL FELL	FELL FELL	FELL FELL	
3801	CT643	3801	811/1/.520	820094.261 820094.387	台灣相思	Acacia confusa  Acacia confusa	130	5	7	FELL	FELL	FELL	
3801	CT644	3801	811720.338	820089.959	台灣相思	Acacia confusa	170	9	12	FELL	FELL	FELL	
3801	CT645	3801	811722.459	820088.188	死樹	Dead tree	130	8	6	FELL	FELL	FELL	
3801	CT646	3801	811724.402	820088.717	台灣相思	Acacia confusa	198	9	8	FELL	FELL	FELL	
3801	CT647	3801	811724.451	820088.218	台灣相思	Acacia confusa	170	7	13	FELL	FELL	FELL	

Part														
Column   C			Current Maintenance					Tree			Pocommondation in LVD			
	Contracts	Tree ID		Easting	Northing	Chinese Name	Latin Name			Height		Status as of end 2022	Status as of end 2023	Remark
Column   C			0,					(mm)		(m)	, , ,			
1.														
10														
Column   C														
10														
100	3801	CT651	3801	811726.146	820088.611					10				
10														
100							Bauhinia spp.							
The column   Column														
Section   Sect							Acacia confusa							
The color   The	3801		3801	811729.221	820086.093				5					
100							Acacia confusa		6					
The column   The		CT659					Acacia confusa			12		FELL		
The color   The														
Column	3801							188		12		FELL	FELL	
100														
Cold	3801	CT663	3801		820080.443			130	5	8	FELL	FELL	FELL	
Column							Acacia confusa		4					
The color						台灣相思	Acacia confusa	110						
100								130						
March   Marc										_				
Section   Sect														
150   151	3801		3801	811730.398	820120.243	台灣相思								
1962   1965	3801	CT670	3801			台灣相思	Acacia confusa	160		7	FELL	FELL	FELL	
March   Marc						台灣相思	Acacia confusa	262			FELL	FELL	FELL	
The column   The														
Color							Bauninia spp.							
150   150							Acacia manaium							
March   Miles   Mile					820113.350	台灣相思	Acacia confusa							
150   150		CT677	3801					180	6	11		FELL	FELL	
150														
1902   1905												FELL		
The color   The									7					
March   Marc								140	4			FFII	FFII	
1905   1906   1906   1915-191			3801											
Column   C						台灣相思	Acacia confusa							
100   C168							Acacia confusa							
1905   Class		CT685				台灣相思	Acacia confusa	230						
1900   1900   1105										- 6				
Mail														
1902   1903	3801	CT69	3801			台灣相思	Acacia confusa	170	7	8	FELL	FELL	FELL	
1906   1907						台灣相思	Acacia confusa							
1950   1969   380   1815-377   1951-379	3801		3801		820122.080			180						
1950   C(164   390   11152-35   2001-2155   2001-2														
1905   1906   1905   1116-137   1905-140   1905-150   1년에 대한 1														
1905   1905   1905   1915-170   1921-170														
1905   CTOR							Acacia confusa							
1801   CTO   1801   1816-020   1816-020   1818-020						羊蹄甲屬	Bauhinia spp.	120				FELL		
1801   CT70   3801 81178.118   801213.98   台灣根色   Acote confuse   190   5   9   FELL   FE														
1801   CT702   3801   811843.24   800132.57   0월째만   400132.57   0월														
Secondary   1980   1984   1984   1985   1984   1985														
Second   Crox   3801   S1164,856   20131.400   Captill   Accols confus   10   4   8   FEL   F		CT701					Acacia confusa	200		12	FELL	FELL	FELL	
SROI   CT704   SROI   SRI64-528   SROI3-3264   使   Melia caedramb   120   4   12   FELL   FELL   FELL   FELL   FELL   SRII-   SRII-		CT702					Acacia confusa	110		8	FELL	FELL	FELL	
3801   CT705   3801   81164.218   82014.512   序   Melio acederach   120   4   9   FELL   F														
3801   CTOS   3801   811642721   820134985   분   Mello acedorach   120   4   9   FELL   F														
Section   CTTOP   Section   Secti							Melia azedarach							
SRION   CT/TOP   SRION   SR		CT707				楝	Melia azedarach	120		6		FELL	FELL	
3801   CT1							Melia azedarach	130		8				
3801   CT710   3801   811641.396   80134.938   台灣相思	3801													
3801   CT711   3801   811640.00   80013.848   台灣相思   Accis confus   100   4   10   FELL														
3801   CT12   3801   811640.380   820137.288   台灣相思   Accis confuso   191   8   10   FELL														
3801   CT13   3801   S1168-718   3801   S1168-718   S00137-85   金融程度   Accide confuse   191   8   10   FEL   FE														
3801   CT714   3801   S1163-7918   3017-758   全融程度	3801		3801	811638.711	820136.869	台灣相思				10				
3801   CT715   3801   81169/320   820131614   羊部甲屬   8ouhino spp.   110   7   9   FELL   F														
September   Sep							Acacia confusa							
3801   CT718   3801   81164.1.624   80012.984   羊鼻甲屬   8outhina spp.   120   6   8   FELL							Bauhinia spp.	110						
3801   CT79   3801   81164.649   80172805   金瀬根息   Acade confusa   110   5   9   FEL							Bauhinia san							
3801   CT72   3801   811726-32   820124-509   大東相思   Accola confusa   270   6   12   FELL	3801		3801											
3801   CT72   3801   81164.98   80105.99   金瀬根息   Acade confus   20   7   10   FEL   FE	3801		3801			大葉相思								
3801   CT722   3801   811647.289   820121.355   台灣相思   Acota confusa   140   5   13   FELL   FELL							Acacia confusa							
3801     CT723     3801     811647.298     820120.607     台灣相思     Acodi confusa     140     5     13     FELL     FELL     FELL     FELL       3801     CT724     3801     81164.9231     820119.878     台灣相思     Acodi confusa     110     5     12     FELL     FELL     FELL     FELL       3801     CT725     3801     81164.738     820119.473     台灣相思     Acodi confusa     100     5     10     FELL     FELL     FELL       3801     CT726     3801     81164.6231     820119.473     台灣相思     Acodi confusa     200     6     11     FELL     FELL     FELL														
3801   CT724   3801   811640.231   820119.858   台灣相思   Accid confus   110   5   12   FELL														
3801     CT725     3801     811647.785     820119.434     台灣相思     Acocia confusa     100     5     10     FELL     FELL     FELL       3801     CT726     3801     811646.231     820119.473     台灣相思     Acocia confusa     200     6     11     FELL     FELL     FELL														
3801 CT726 3801 811646.231 820119.473 台灣相思 Acoia confusa 200 6 11 FELL FELL FELL FELL														
		CT726					Acacia confusa	200	6	11	FELL	FELL	FELL	
	3801	CT727	3801	811645.723	820121.032	台灣相思	Acacia confusa	150	7	10	FELL	FELL	FELL	

		Current Maintenance					Tree	Measuren		Recommendation in LVP			
Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Latin Name	DBH	Crown Spread	Height	(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
		- '					(mm)	(m)	(m)				
Exiting Works													
3801 3801	CT728 CT729	3801 3801	811642.169 811642.032	820122.250 820125.191	羊蹄甲屬 台灣相思	Bauhinia spp.	110 170	6 8	9	FELL FELL	FELL FELL	FELL FELL	
3801	CT729 CT73	3801	811542.032 811726.139	820125.191	台灣相思	Acacia confusa Acacia confusa	170	10	9	FELL	FELL FELL	FELL	
3801	CT730	3801	811641.077	820125.497	台灣相思	Acacia confusa	170	9	11	FELL	FELL	FELL	
3801	CT731	3801	811638.493	820125.537	台灣相思	Acacia confusa	150	7	12	FELL	FELL	FELL	
3801	CT732	3801	811637.737	820125.192	羊蹄甲屬	Bauhinia spp.	120	4	8	FELL	FELL	FELL	
3801	CT733	3801	811637.863	820126.066	台灣相思	Acacia confusa	140	6	8	FELL	FELL	FELL	
3801	CT734	3801	811636.771	820125.851	台灣相思	Acacia confusa	170	5	11	FELL	FELL	FELL	
3801 3801	CT735	3801 3801	811637.912 811638.656	820128.845	台灣相思	Acacia confusa	150	7	12	FELL	FELL	FELL	
3801	CT736 CT737	3801	811637.191	820129.217 820130.323	台灣相思	Acacia confusa Acacia confusa	100 110	3	12	FELL FELL	FELL FELL	FELL FELL	
3801	CT738	3801	811636.316	820130.323	台灣相思	Acacia confusa	110	2	11	FELL	FELL	FELL	
3801	CT739	3801	811635.090	820131.588	台灣相思	Acacia confusa	170	6	12	FELL	FELL	FELL	
3801	CT74	3801	811725.411	820120.985	台灣相思	Acacia confusa	150	6	10	FELL	FELL	FELL	
3801	CT740	3801	811635.596	820133.466	棟	Melia azedarach	170	1	11	FELL	FELL	FELL	
3801	CT741	3801	811634.112	820132.415	台灣相思	Acacia confusa	170	5	15	FELL	FELL	FELL	
3801	CT742	3801	811633.419	820132.746	台灣相思	Acacia confusa	110	4	9	FELL	FELL	FELL	
3801 3801	CT743 CT744	3801 3801	811631.555 811631.484	820131.863 820130.848	大葉相思 大葉相思	Acacia mangium	160 170	3	13 15	FELL FELL	FELL FELL	FELL FFII	
3801	CT745	3801	811630.960	820130.848	大葉相思	Acacia mangium Acacia mangium	130	4	15	FELL	FELL	FELL	
3801	CT746	3801	811627.839	820131.068	棟	Melia azedarach	270	9	15	FELL	FELL	FELL	
3801	CT747	3801	811627.941	820133.460	大葉相思	Acacia mangium	150	3	14	FELL	FELL	FELL	
3801	CT748	3801	811624.973	820132.750	大葉相思	Acacia mangium	240	5	14	FELL	FELL	FELL	
3801	CT749	3801	811624.892	820133.709	大葉相思	Acacia mangium	160	4	13	FELL	FELL	FELL	
3801	CT75	3801	811723.776	820122.316	台灣相思	Acacia confusa	110	5	10	FELL	FELL	FELL	
3801	CT750	3801	811625.911	820134.671	台灣相思	Acacia confusa	100	5	10	FELL	FELL	FELL	
3801 3801	CT751 CT752	3801 3801	811624.927 811623.359	820135.487 820136.054	台灣相思	Acacia confusa	160 160	5 8	12 12	FELL FELL	FELL FELL	FELL FELL	
3801	CT752	3801	811619.166	820136.604	台灣相思	Acacia confusa Acacia confusa	140	6	11	FELL	FELL	FELL	
3801	CT754	3801	811619.192	820135.553	台灣相思	Acacia confusa	170	7	11	FELL	FELL	FELL	
3801	CT755	3801	811620.308	820133.625	大蘇相思	Acacia mangium	190	6	9	FELL	FELL	FELL	
3801	CT756	3801	811617.352	820134.181	台灣相思	Acacia confusa	130	6	6	FELL	FELL	FELL	
3801	CT757	3801	811616.209	820134.397	台灣相思	Acacia confusa	170	5	13	FELL	FELL	FELL	
3801 3801	CT758	3801 3801	811615.358 811615.360	820134.516 820135.360	台灣相思	Acacia confusa	150	6	9	FELL	FELL	FELL	
3801	CT759	3801 3801	811615.360 811721.819	820135.360 820124.078	台灣相思	Acacia confusa	150 220	7	10 11	FELL	FELL FELL	FELL FELL	
3801	CT76 CT760	3801	811616.474	820137.221	台灣相思	Melia azedarach Acacia confusa	130	5	11	FELL FELL	FELL	FELL	
3801	CT761	3801	811615.978	820138.200	台灣相思	Acacia confusa	160	5	12	FELL	FELL	FELL	
3801	CT762	3801	811615.183	820137.415	台灣相思	Acacia confusa	130	7	8	FELL	FELL	FELL	
3801	CT763	3801	811614.280	820138.663	台灣相思	Acacia confusa	190	8	10	FELL	FELL	FELL	
3801	CT764	3801	811612.488	820136.608	台灣相思	Acacia confusa	150	7	11	FELL	FELL	FELL	
3801	CT765	3801	811611.804	820128.114	銀合歡	Leucaena leucocephala	140	8	14	FELL	FELL	FELL	
3801 3801	CT766	3801 3801	811605.438 811600.977	820134.692 820136.418	銀合歡銀合歡	Leucaena leucocephala	100 214	10	9	FELL FELL	FELL	FELL	
3801	CT767 CT768	3801	811607.029	820137.200	取口軟 台灣相思	Leucaena leucocephala Acacia confusa	170	11 6	11 11	FELL	FELL FELL	FELL FELL	
3801	CT769	3801	811601.200	820138.216	羊蹄甲屬	Bauhinia spp.	160	7	9	FELL	FELL	FELL	
3801	CT77	3801	811725.729	820127.252	大葉相思	Acacia mangium	120	4	7	FELL	FELL	FELL	
3801	CT770	3801	811600.374	820138.421	台灣相思	Acacia confusa	170	8	11	FELL	FELL	FELL	
3801	CT771	3801	811599.144	820138.377	台灣相思	Acacia confusa	210	8	9	FELL	FELL	FELL	
3801	CT772	3801	811597.809	820139.198	台灣相思	Acacia confusa	110	3	12	FELL	FELL	FELL	
3801 3801	CT773 CT774	3801 3801	811597.260 811597.287	820138.444 820139.165	台灣相思	Acacia confusa	140	10	9 8	FELL FELL	FELL FELL	FELL FFI I	
3801	CT775	3801	811595.962	820139.103	台灣相里	Acacia confusa Acacia confusa	120	3	7	FELL	FELL	FELL	
3801	CT776	3801	811593.928	820138.370	銀合歡	Leucaena leucocephala	100	4	12	FELL	FELL	FELL	
3801	CT777	3801	811594.215	820138.075	台灣相思	Acacia confusa	130	7	7	FELL	FELL	FELL	
3801	CT778	3801	811593.166	820139.137	台灣相思	Acacia confusa	130	4	6	FELL	FELL	FELL	
3801	CT779	3801	811591.717	820133.980	羊蹄甲屬	Bauhinia spp.	140	2	8	FELL	FELL	FELL	
3801 3801	CT78	3801 3801	811724.421 811589.094	820128.780 820133.741	大葉相思	Acacia mangium	180	5	10	FELL	FELL	FELL	
3801	CT780 CT781	3801 3801	811589.094 811588.415	820133.741 820134.141	台灣相思	Acacia confusa Acacia confusa	100 110	7	6 10	FELL FELL	FELL FELL	FELL FELL	
3801	CT782	3801	811588.561	820134.753	台灣相思	Acacia confusa  Acacia confusa	130	4	9	FELL	FELL	FELL	
3801	CT783	3801	811588.879	820136.717	銀合歡	Leucaena leucocephala	100	4	12	FELL	FELL	FELL	
3801	CT784	3801	811586.948	820136.122	台灣相思	Acacia confusa	120	5	10	FELL	FELL	FELL	
3801	CT785	3801	811587.466	820133.550	台灣相思	Acacia confusa	120	7	9	FELL	FELL	FELL	
3801	CT786	3801	811585.906	820133.493	台灣相思	Acacia confusa	120	5	12	FELL	FELL	FELL	
3801 3801	CT787 CT788	3801 3801	811584.819 811583.845	820133.217 820133.243	台灣相思 台灣相思	Acacia confusa	100	6	9	FELL	FELL FELL	FELL	
3801	C1788 CT789	3801	811583.845 811582.540	820133.243 820133.145	台灣相思	Acacia confusa Acacia confusa	120	5	12	FELL FELL	FELL	FELL FELL	
3801	CT79	3801	811724.688	820129.666	大葉相思	Acacia mangium	210	5	8	FELL	FELL	FELL	
3801	CT790	3801	811581.815	820133.942	棟	Melia azedarach	130	5	13	FELL	FELL	FELL	
3801	CT791	3801	811581.298	820133.189	台灣相思	Acacia confusa	120	4	13	FELL	FELL	FELL	
3801	CT792	3801	811578.941	820135.776	羊蹄甲屬	Bauhinia spp.	100	3	10	FELL	FELL	FELL	
3801	CT793	3801	811578.058	820130.990	銀合歡	Leucaena leucocephala	100	5	13	FELL	FELL	FELL	
3801 3801	CT794	3801 3801	811576.009 811575.216	820133.651 820134.153	銀合歡銀合歡	Leucaena leucocephala	111	7	13	FELL	FELL	FELL FELL	
3801	CT795 CT796	3801 3801	811575.216 811577.485	820134.153 820135.113	銀合歡	Leucaena leucocephala Leucaena leucocephala	140 120	7 8	13 7	FELL FELL	FELL FELL	FELL FELL	
3801	CT796	3801	811576.206	820134.814	銀合數	Leucaena leucocephala	120	9	9	FELL	FELL	FELL	
3801	CT798	3801	811571.463	820135.500	銀合歡	Leucaena leucocephala	100	5	9	FELL	FELL	FELL	
3801	CT799	3801	811570.756	820128.819	銀合歡	Leucaena leucocephala	110	3	13	FELL	FELL	FELL	
3801	CT80	3801	811724.289	820130.573	大葉相思	Acacia mangium	110	3	5	FELL	FELL	FELL	
3801	CT800	3801	811567.750	820130.213	銀合歡	Leucaena leucocephala	110	10	7	FELL	FELL	FELL	
3801	CT801	3801	811562.869	820130.496	銀合歡	Leucaena leucocephala	110	5	9	FELL	FELL	FELL	
3801	CT802	3801	811561.617	820130.104	銀合歡	Leucaena leucocephala	190	6	13	FELL	FELL	FELL	
3801 3801	CT803 CT804	3801 3801	811557.283 811554.902	820130.588 820133.605	銀合歡銀合歡	Leucaena leucocephala	120 240	3 8	10	FELL FELL	FELL FELL	FELL FELL	
3801	CT805	3801	811555.149	820137.178	銀合歡	Leucaena leucocephala Leucaena leucocephala	130	5	11	FELL	FELL	FELL	
3801	CT806	3801	811559.949	820137.178	銀合歡	Leucaena leucocephala	100	7	9	FELL	FELL	FELL	

		Current Maintenance					Tree	Measurem Crown		Recommendation in LVP			
Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Latin Name	DBH	Spread	Height	(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
							(mm)	(m)	(m)				
Exiting Works		3801	811566.206	820137.497	AR A 84		1 1						
3801 3801	CT807 CT808	3801	811556.206 811550.692	820137.497 820140.926	銀合歡銀合歡	Leucaena leucocephala Leucaena leucocephala	120 230	9	9 15	FELL FELL	FELL FELL	FELL FELL	
3801	CT809	3801	811546.582	820140.800	銀合歡	Leucaena leucocephala	160	5	14	FELL	FELL	FELL	
3801	CT81	3801	811722.544	820132.500	大葉相思	Acacia mangium	210	5	10	FELL	FELL	FELL	
3801	CT810	3801	811546.590	820144.611	銀合歡	Leucaena leucocephala	100	2	9	FELL	FELL	FELL	
3801	CT811	3801	811544.960	820145.644	羊蹄甲屬	Bauhinia spp.	110	4	6	FELL	FELL	FELL	
3801 3801	CT812	3801 3801	811551.197 811562.402	820149.059 820145.653	銀合歡	Leucaena leucocephala	120	4	13	FELL	FELL	FELL	
3801	CT813 CT814	3801	811562.402 811561.741	820145.653 820144.121	銀合數銀合數	Leucaena leucocephala	240 130	12 10	14 9	FELL FELL	FELL FELL	FELL FELL	
3801	CT815	3801	811562.284	820142.342	黄花夾竹桃	Leucaena leucocephala Thevetia peruviana	110	4	8	FELL	FELL	FELL	
3801	CT816	3801	811564.294	820147.487	台灣相思	Acacia confusa	170	9	11	FELL	FELL	FELL	
3801	CT817	3801	811563.617	820147.668	台灣相思	Acacia confusa	160	8	12	FELL	FELL	FELL	
3801	CT818	3801	811564.151	820148.929	台灣相思	Acacia confusa	150	5	10	FELL	FELL	FELL	
3801	CT819	3801	811564.361	820149.574	台灣相思	Acacia confusa	170	6	10	FELL	FELL	FELL	
3801 3801	CT82 CT820	3801 3801	811721.594 811565.021	820131.589 820150.461	台灣相思	Acacia confusa Melia azedarach	250 100	- 8 - 5	12 9	FELL FELL	FELL FELL	FELL FELL	
3801	CT821	3801	811569.155	820152.269	主路甲屋	Bauhinia spp.	350	6	8	FELL	FELL	FELL	
3801	CT822	3801	811573.060	820153.799	台灣相思	Acacia confusa	100	3	5	FELL	FELL	FELL	
3801	CT823	3801	811571.472	820151.374	羊蹄甲屬	Bauhinia spp.	110	4	9	FELL	FELL	FELL	
3801	CT824	3801	811574.713	820148.659	黄花夾竹桃	Thevetia peruviana	100	3	5	FELL	FELL	FELL	
3801	CT825	3801	811576.045	820146.801	大葉相思	Acacia mangium	170	4	9	FELL	FELL	FELL	
3801 3801	CT826	3801 3801	811572.201 811569.832	820145.635 820145.748	大葉相思	Acacia mangium	130	3	13	FELL	FELL	FELL	
3801	CT827 CT828	3801 3801	811569.832 811567.519	820145.748 820144.873	大葉相思 銀合歡	Acacia manqium Leucaena leucocephala	240 160	5 11	15 13	FELL FELL	FELL FELL	FELL FELL	
3801	CT829	3801	811565.683	820143.266	台灣相思	Acacia confusa	130	5	10	FELL	FELL	FELL	
3801	CT83	3801	811719.933	820136.186	銀合歡	Leucaena leucocephala	120	7	8	FELL	FELL	FELL	
3801	CT830	3801	811567.407	820142.123	台灣相思	Acacia confusa	262	8	14	FELL	FELL	FELL	
3801	CT831	3801	811568.429	820142.307	台灣相思	Acacia confusa	100	3	8	FELL	FELL	FELL	
3801	CT832	3801 3801	811568.567	820140.845	台灣相思	Acacia confusa	200	5	12	FELL	FELL	FELL	
3801 3801	CT833 CT834	3801 3801	811565.694 811566.979	820138.207 820136.897	銀合數銀合數	Leucaena leucocephala Leucaena leucocephala	110 130	9	9 8	FELL FELL	FELL FELL	FELL FELL	
3801	CT835	3801	811569.853	820137.673	銀合歡	Leucaena leucocephala	100	6	10	FELL	FELL	FELL	
3801	CT836	3801	811570.161	820142.657	銀合歡	Leucaena leucocephala	130	6	13	FELL	FELL	FELL	
3801	CT837	3801	811572.243	820144.089	銀合歡	Leucaena leucocephala	210	6	15	FELL	FELL	FELL	
3801	CT838	3801	811574.635	820140.154	銀合歡	Leucaena leucocephala	130	5	15	FELL	FELL	FELL	
3801	CT839	3801	811576.650	820137.984	銀合歡	Leucaena leucocephala	130	3	7	FELL	FELL	FELL	
3801 3801	CT840	3801 3801	811719.219 811577.628	820136.163 820138.723	大葉相思 銀合歡	Acacia mangium	320 190	3	8	FELL	FELL FELL	FELL FELL	
3801	CT841	3801	811578.316	820142.223	銀合歡	Leucaena leucocephala Leucaena leucocephala	150	4	13	FELL FELL	FELL	FELL	
3801	CT842	3801	811579.737	820141.507	銀合歡	Leucaena leucocephala	140	4	11	FELL	FELL	FELL	
3801	CT843	3801	811580.667	820139.394	羊蹄甲屬	Bauhinia spp.	130	6	9	FELL	FELL	FELL	
3801	CT844	3801	811581.310	820138.926	羊蹄甲屬	Bauhinia spp.	120	4	10	FELL	FELL	FELL	
3801	CT845	3801	811584.404	820138.480	棟	Melia azedarach	160	4	11	FELL	FELL	FELL	
3801	CT846	3801 3801	811585.268	820137.673	台灣相思台灣相思	Acacia confusa	150	6	11	FELL	FELL	FELL	
3801 3801	CT847 CT848	3801	811586.029 811587.422	820137.552 820139.790	大葉相思	Acacia confusa Acacia mangium	200 180	5	11	FELL FELL	FELL FELL	FELL FELL	
3801	CT849	3801	811589.924	820140.332	大葉相思	Acacia mangium	170	5	14	FELL	FELL	FELL	
3801	CT85	3801	811718.831	820137.027	大葉相思	Acacia mangium	200	5	11	FELL	FELL	FELL	
3801	CT850	3801	811591.556	820144.270	死樹	Dead tree	110	3	7	FELL	FELL	FELL	
3801	CT851	3801	811589.685	820144.051	大葉相思	Acacia mangium	110	4	8	FELL	FELL	FELL	
3801 3801	CT852 CT853	3801 3801	811588.829 811587.225	820144.002 820143.919	大葉相思 羊蹄甲屬	Acacia mangium	120	- 4	9 8	FELL FELL	FELL FELL	FELL FFII	
3801	CT854	3801	811585.540	820145.315	十四十周 主際田屋	Bauhinia spp. Bauhinia spp.	120	5	9	FELL	FELL	FELL	
3801	CT855	3801	811584.517	820145.257	台灣相思	Acacia confusa	130	4	9	FELL	FELL	FELL	
3801	CT857	3801	811580.058	820144.562	棟	Melia azedarach	240	6	15	FELL	FELL	FELL	
3801	CT858	3801	811580.584	820145.353	大蘇相思	Acacia mangium	150	4	10	FELL	FELL	FELL	
3801	CT859	3801	811574.848	820144.564	紅膠木 大葉相思	Lophostemon confertus	190	4	12	FELL	FELL	FELL	
3801 3801	CT86	3801 3801	811718.356 811577.483	820137.511 820146.380	大薬相思	Acacia mangium	100	4	7	FELL	FELL	FELL	
3801	CT860 CT861	3801	811577.483 811580.149	820146.380 820149.877	大脈相忠	Acacia manqium Melia azedarach	160 140	8	10 9	FELL FELL	FELL FELL	FELL FELL	
3801	CT862	3801	811581.324	820150.528	棟	Melia azedarach	160	5	11	FELL	FELL	FELL	
3801	CT863	3801	811584.560	820148.364	黄花夾竹桃	Thevetia peruviana	227	6	5	FELL	FELL	FELL	
3801	CT864	3801	811585.547	820145.824	台灣相思	Acacia confusa	260	10	15	FELL	FELL	FELL	
3801 3801	CT865	3801 3801	811587.979 811588.179	820145.608 820146.363	台灣相思 台灣相思	Acacia confusa	120	4	11	FELL	FELL	FELL	
3801	CT866 CT867	3801 3801	811588.179 811588.976	820145.743	台灣相思	Acacia confusa  Acacia confusa	100 150	5	8 10	FELL FELL	FELL FELL	FELL FELL	
3801	CT868	3801	811589.724	820145.959	台灣相思	Acacia confusa  Acacia confusa	130	9	11	FELL	FELL	FELL	
3801	CT869	3801	811591.414	820146.139	台灣相思	Acacia confusa	170	8	12	FELL	FELL	FELL	
3801	CT87	3801	811717.268	820134.654	台灣相思	Acacia confusa	140	7	11	FELL	FELL	FELL	
3801	CT870	3801	811594.954	820145.213	台灣相思	Acacia confusa	130	3	6	FELL	FELL	FELL	
3801	CT871	3801	811598.786	820143.495	台灣相思	Acacia confusa	156	5	8	FELL	FELL	FELL	
3801 3801	CT872 CT873	3801 3801	811601.688 811595.781	820142.760 820140.705	大葉相思 銀合歡	Acacia mangium	110 120	4	9	FELL FELL	FELL FELL	FELL FELL	
3801	C1873 CT874	3801 3801	811595.781 811605.070	820140.705 820141.771	数百畝 大葉相思	Leucaena leucocephala Acacia mangium	120 310	8	11	FELL	FELL	FELL	
3801	CT875	3801	811607.701	820143.001	台灣相思	Acacia confusa	130	8	10	FELL	FELL	FELL	
3801	CT876	3801	811606.565	820144.331	台灣相思	Acacia confusa	100	7	7	FELL	FELL	FELL	
3801	CT877	3801	811607.277	820144.851	台灣相思	Acacia confusa	150	6	11	FELL	FELL	FELL	
3801	CT878	3801	811608.072	820146.824	楝	Melia azedarach	160	4	12	FELL	FELL	FELL	
3801 3801	CT879	3801 3801	811609.273	820144.867	台灣相思	Acacia confusa	180	5	11	FELL	FELL	FELL	
3801 3801	CT88 CT880	3801 3801	811716.411 811609.509	820138.704 820143.208	大葉相思 台灣相思	Acacia mangium	110 160	6	5 12	FELL FELL	FELL FELL	FELL FELL	
3801	CT880 CT881	3801	811609.509	820143.208 820142.284	古灣相思 大葉相思	Acacia confusa Acacia mangium	180	5	12	FELL	FELL	FELL	
3801	CT882	3801	811617.651	820141.156	死樹	Dead tree	340	8	10	FELL	FELL	FELL	
3801	CT883	3801	811623.063	820139.727	台灣相思	Acacia confusa	100	5	12	FELL	FELL	FELL	
3801	CT884	3801	811623.527	820141.084	大葉相思	Acacia mangium	200	5	15	FELL	FELL	FELL	
3801	CT885	3801	811628.092	820137.432	台灣相思	Acacia confusa	130	5	13	FELL	FELL	FELL	
3801	CT886	3801	811628.826	820137.058	台灣相思	Acacia confusa	130	6	13	FELL	FELL	FELL	

Control   Ten   D	Remark
Ten   Part   P	Remark
Mary	
1805   CR09   3805	
1800   C1889	
1905   CT89   3805   \$11(15.18)   2001.04.05   元素管管   Accts configura   130   4   7   FEL	
1801   C199   1901   11111-177   1801-1005   X_REST   According   150   5   12   FEL   F	
1800   C1890   3001	
3001   C1992   3001   \$11531326   \$2014455   白용트인   Aspois confus   120   3   8   FELL   F	
3801   C199   3801   811631575   20214369   전체인   Accor configur   120   4   9   FEL	
3801   C1995   3801   811629473   85014399   7.8889   Acces menglum   140   4   9   FELL	
1801   CT999   1801   181102402   180141755   18   Mella aredward   230   7   10   FELL	
3801   C1997   3801   811525-640   200143-790   位養相野   Acces centure   160   7   10   FELL	
3801   CF998   3801   81195-775   800143-776   슬벨턴   Accis confuse   140   6   9   FELL	
3801   CF899   3801   811624816   820143764   슬렉린턴   Accis confuse   130   5   12   FELL	
3801   CT99   3801   81162-2496   80144157   白黃田原   Acora confus   120   4   11   FEL	
3801   CP90   3801   811715.871   820141.038   銀合物   日本の本のの内側の   156   7 9   FELL	
3801   C1900   3801   81161-1905   820144-111   台灣相談   Access confuse   190   5   7   FELL	
3801	
3801   C1993   3801   81165.694   820146.255   台灣思見   Accis confuse   150   4   8   FELL	
3801 CTIO4 3801 81161403 82014.6226 台灣相思 Accis confus 10 3 7 FELL FELL FELL FELL FELL FELL FELL FE	
3801   CT996   3801   81167.460   82014.477   台灣相思	
3801   CT906   3801   811615-983   820145-358   台灣相景   Acacia confusa   110   3   8   FELL   FELL   FELL   FELL   Security   Secu	
3801 (1997 3801 811614-50 820145-765 台灣相思 Accia confusa 150 5 8 FELL FELL FELL FELL FELL FELL S301 (1998 3801 811615-465 820148-156 台灣相思 Accia confusa 170 4 7 FELL FELL FELL FELL FELL FELL FELL FE	
3801 (1998   3801   811613.465   820148.156   台灣相思   Accide confusa   231   5   8   FELL	
3801 C799 3801 811605.259 820140.520 台灣相思 Accele confuse 170 4 7 FELL FELL FELL FELL FELL FELL FELL FE	
3901   CT91   3901   S1174.951   S2014.592   程   Melia aredarach   120   4   11   FELL	
3801 (7910 3801 811604.352 82015.9140 台灣相思 Accois confusa 140 5 8 FELL FELL FELL FELL SROTE SALES SA	
3801   C1911   3801   811603-428   82015-0140   台灣相見   Accola confusa   120   5   6   FELL   FELL   FELL   FELL   SPELL   3801   311601-139   3801   811601-139   3801   811601-139   3801   811601-139   3801   811601-139   3801   811601-139   3801   811601-139   3801   811601-139   3801   811601-139   3801   811504-236   82014-756   72801-139   82015-1376   FELL   FEL	
3801   C1913   3801   811601.190   82 20147.756   大陸相関   Acacia manqium   150   3   7   FELL   FELL   FELL   FELL   SACTION	
3801   C7914   3801   811500.552   820149.490   羊野甲屬   Bouninia yp.   100   4   5   FEL   FEL   FEL   FEL   FEL   FEL   FEL   Sel	
3801   CT915   3801   811594.236   820151.376   使   Melio acedorach   190   5   7   FELL   FELL   FELL   FELL   SRIL	
3801   CT916   3801   811593.879   82015.722   接   Melio acedorach   140   4   7   FELL   FELL   FELL   FELL   FELL   SACTION   SACTI	
3801   CT917   3801   811670.016   820072.115   羊語甲屬   Boulnina spp.   120   4   7   FELL   FELL   FELL   FELL   3801   CT918   3801   811667.85   820071.8014   大黄相思   Accis amajum   180   3   10   FELL	
3801   CT918   3801   811667.255   820071.504   大菱相原   Acacla manajum   180   3   10   FELL   FELL   FELL   FELL   FELL   Security   Securit	
3801   CT919   3801   81166-838   820069-213   青曜   Hibitous Hilloreus   170   7   10   FELL   FELL   FELL   FELL   FELL   SPELL	
3801   CT92   3801   81176.807   820139.580   大葉相原   Acacia mandum   110   6   7   FEL   FELL   FELL   FELL   FELL   SACTION   SACTIO	
3801   CT920   3801   811664.578   820096.903   第花灰竹粽   Thevetta peruvision   110   6   8   FELL   FELL   FELL   FELL   FELL   FELL   Sell	
3801   CT922   3801   811665.95   820075.134   台灣相思   Accia confusa   140   4   10   FELL   FELL   FELL   FELL   FELL   Security	
3801   CT923   3801   811665.474   820076.578   台灣相思   Accala confusar   210   6   10   FELL   FELL   FELL   FELL   FELL   Security   Securi	
3801   C7924   3801   811663.803   820074.288   棟   Melia azedarach   280   5   12   FELL   FELL   FELL   FELL   FELL   SELL	
3801   CT925   3801   811652.143   820074.568   核   Melia aredorach   240   3   112   FELL	
3801   C7926   3801   811661.820   820076.670   台灣相思   Acacia confusa   180   7   8   FELL   FELL   FELL   FELL   SELL	
3801   CT927   3801   811661.633   820072.76   台灣相景   Accia confusa   100   4   7   FELL   FELL   FELL   FELL   Sell	
3801   CT928   3801   811659.005   820073.211   台灣相思   Acadia confusa   120   4   8   FELL   FELL   FELL   SELL	
3801   CT929   3801   811656.836   820075.849   台灣相思   Acacia confusa   100   3   5   FELL   FELL   FELL   FELL   SELL	
3801     CT93     3801     81173.3309     82014.8582     留合散     Leucaena leucocephala     218     15     9     FELL     FELL     FELL       3801     CT930     3801     811658.430     820076.247     台灣相思     Acacia confusa     120     4     8     FELL     FELL     FELL     FELL       3801     CT931     3801     811658.357     820077.356     台灣相思     Acacia confusa     180     6     12     FELL     FELL     FELL     FELL       3801     CT933     3801     811657.583     820077.756     台灣相思     Acacia confusa     180     3     12     FELL     FELL     FELL     FELL	
3801         CT930         3801         811658.430         820076.247         台灣相思         Accoia confusa         120         4         8         FELL	
3801         CT933         3801         811657.583         820077.756         台灣相思         Acacia confusa         180         3         12         FELL         FELL         FELL	
3801         CT935         3801         811656.423         820079.238         大萊相思         Acacia mangium         140         4         11         FELL         FEL	
3001	
3001	
Section	
3801 CT940 3801 811653.505 820081.248 紅藤木 Lophostemon confertus 100 4 15 FELL FELL FELL FELL	
3801 CT941 3801 811654.776 820076.723 台灣相思 Acacia confusa 130 7 7 FELL FELL FELL FELL	
3801   CT942   3801   811653.900   820077.304   台灣相思   Acacia confusa   280   7   11   FELL   FELL   FELL   FELL	
3801 CT943 3801 811650.929 820079.337 羊籍甲屬 Bauhinia spp. 120 5 6 FELL FELL FELL	
3801 CT944 3801 811648.167 820880.445 羊語甲屬 Boulhinia.pp. 110 5 7 FELL FELL FELL FELL STATE FELL STATE FELL FELL FELL FELL FELL FELL FELL FE	
3801 C7946 3801 811647-460 820080.316 羊腰甲蘭 Bouhinia spp. 150 7 7 FELL FELL FELL FELL SPELL FELL SPELL FELL FELL FELL FELL FELL FELL FELL	
300.2 C1947 300.2 01.109-0003 00.000-02.2 +1897-90 DUIMINISP. 120 5 10 FELL FELL FELL FELL FELL FELL FELL FEL	
Solid   CT949	
3801 CT95 3801 811712.308 820131.465 台灣相思 Acacia confusa 130 5 10 FELL FELL FELL FELL	
3801 CT950 3801 811644.415 820081.982 台灣相思 Acacia confusa 120 7 7 FELL FELL FELL FELL	
3801 CT951 3801 811644.374 820083.085 大萊相思 Acacia mangjum 210 5 11 FELL FELL FELL FELL	
3801 CT952 3801 811645.348 820084.083 大蘇相思 Acacia mangium 205 5 7 FELL FELL FELL	
3801 CT953 3801 811642.829 820084.523 大葉相思 Acacia manqium 230 4 11 FELL FELL FELL	
3801 CT954 3801 811642.497 820083.054 台灣相思 Acacia confusa 120 4 8 FELL FELL FELL FELL	
3801 (T955 3801 811641.830 820084.715 大葉根原 Acocio mangium 100 3 5 FELL FELL FELL FELL FELL FELL FELL FE	
3801 (1956 3801 81164.135 820083.922 大陸相思 Acocie manglum 290 5 12 FELL FELL FELL FELL SSOUTH STATE ST	
3801 CT959 3801 811640.123 820084.116 大葉相根 Acoci mongium 140 4 8 FELL FELL FELL FELL FELL FELL FELL FE	
2500   1   2500   25	
3801 CT961 3801 811637.927 820085.962 紅膠木 Lophostemon confertus 100 5 8 FELL FELL FELL FELL	
3801 CT962 3801 811635.834 820087.092 紅膠木 Lophostemon confertus 100 5 8 FELL FELL FELL FELL	
3801 CT963 3801 811636.340 820084.950 羊蹄甲屬 Bauhinia spp. 100 3 8 FELL FELL FELL FELL	
3801 CT964 3801 811637.112 820082.146 紅膠木 Lophostemon confertus 120 5 6 FELL FELL FELL FELL	
3801         CT965         3801         811631.954         820085.976         台灣相思         Acacia confusa         260         7         12         FELL         FELL         FELL	
3801 CT966 3801 811633.441 820086.855 台灣相思 Acacia confusa 120 4 9 FELL FELL FELL	
3801 CT967 3801 811631.858 820086.727 台灣相思 Acacia confusa 120 6 6 FELL FELL FELL	

		Current Maintenance						Measuren Crown		Recommendation in LVP			
Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Latin Name	DBH	Spread	Height	(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
							(mm)	(m)	(m)				
Exiting Works					/ W ID D		_						
3801 3801	CT968 CT969	3801 3801	811632.465 811630.829	820087.105 820087.183	台灣相思	Acacia confusa	160 130	5	11 8	FELL FELL	FELL FELL	FELL FELL	
3801	CT97	3801	811711.245	820131.195	台灣相思	Acacia confusa Acacia confusa	170	7	10	FELL	FELL	FELL	
3801	CT970	3801	811631.393	820087.900	台灣相思	Acacia confusa	120	7	7	FELL	FELL	FELL	
3801	CT971	3801	811633.283	820088.061	台灣相思	Acacia confusa	110	5	6	FELL	FELL	FELL	
3801	CT972	3801	811635.631	820089.192	棟	Melia azedarach	240	5	12	FELL	FELL	FELL	
3801	CT973	3801	811629.298	820085.653	棟	Melia azedarach	220	7	12	FELL	FELL	FELL	
3801 3801	CT974	3801 3801	811623.906 811622.994	820086.085 820086.361	大葉相思	Acacia mangium	310	5	12	FELL	FELL	FELL FELL	
3801	CT975 CT976	3801	811623.550	820087.356	大葉相思	Acacia mangium Acacia mangium	140 170	3	11 11	FELL FELL	FELL FELL	FELL	
3801	CT977	3801	811621.966	820087.134	死樹	Dead tree	170	3	12	FELL	FELL	FELL	
3801	CT978	3801	811623.281	820088.260	大葉相思	Acacia mangium	180	4	11	FELL	FELL	FELL	
3801	CT979	3801	811624.497	820088.077	大葉相思	Acacia mangium	280	8	12	FELL	FELL	FELL	
3801	CT98	3801	811710.313	820131.891	台灣相思	Acacia confusa	150	7	9	FELL	FELL	FELL	
3801 3801	CT980	3801 3801	811624.120 811625.260	820089.260 820092.836	大葉相思 大葉相思	Acacia mangium	100	5	7	FELL	FELL	FELL	
3801	CT981 CT982	3801	811625.260	820092.836 820092.013	大脈相忠 紅膠木	Acacia mangium	210 100	4	10	FELL FELL	FELL FELL	FELL FELL	
3801	CT983	3801	811622.077	820092.013	台灣相思	Lophostemon confertus Acacia confusa	160	- 6	10	FELL	FELL	FELL	
3801	CT984	3801	811621.398	820090.268	台灣相思	Acacia confusa	100	5	10	FELL	FELL	FELL	
3801	CT985	3801	811621.163	820091.290	台灣相思	Acacia confusa	120	5	6	FELL	FELL	FELL	
3801	CT986	3801	811620.622	820090.790	台灣相思	Acacia confusa	110	5	10	FELL	FELL	FELL	
3801	CT987	3801	811619.796	820090.089	台灣相思	Acacia confusa	190	7	10	FELL	FELL	FELL	
3801 3801	CT988	3801 3801	811619.133 811618.346	820087.566 820089.535	大葉相思	Acacia mangium	230	6	12	FELL	FELL	FELL	
3801	CT989 CT99	3801 3801	811618.346 811706.145	820089.535 820136.848	羊蹄甲屬	Bauhinia spp. Melia azedarach	110 220	7	10 9	FELL FELL	FELL FELL	FELL FELL	
3801	CT990	3801	811616.978	820087.816	紅膠木	Lophostemon confertus	110	3	8	FELL	FELL	FELL	
3801	CT991	3801	811617.107	820090.263	羊蹄甲屬	Bauhinia spp.	140	5	10	FELL	FELL	FELL	
3801	CT992	3801	811614.730	820091.061	大葉相思	Acacia mangium	210	3	11	FELL	FELL	FELL	
3801	CT993	3801	811614.324	820090.844	大葉相思	Acacia mangium	130	2	11	FELL	FELL	FELL	
3801 3801	CT994	3801 3801	811613.921 811613.384	820091.427 820091.001	大葉相思	Acacia mangium	210	4	9	FELL	FELL	FELL	<u> </u>
3801	CT995 CT996	3801	811613.384	820091.001	大葉相思	Acacia mangium	400 410	6	14	FELL	FELL	FELL FELL	
3801	CT996 CT997	3801	811613.115	820088.535 820088.742	大脈相志 羊蹄甲屬	Acacia mangium Bauhinia spp.	100	6	13	FELL FELL	FELL FELL	FELL	
3801	CT998	3801	811610.086	820091.235	羊蹄甲屬	Bauhinia spp.	110	5	7	FELL	FELL	FELL	
3801	CT999	3801	811608.617	820089.393	羊蹄甲屬	Bauhinia spp.	100	2	12	FELL	FELL	FELL	
3801	P252/CT305	3801	811786.397	819946.253	垂葉榕	Ficus benjamina	215	5	7	FELL	FELL	FELL	
3801	P252/CT306	3801	811785.442	819950.058	重葉榕	Ficus benjamina	200	6	7	FELL	FELL	FELL	
3801 3801	P252/CT307	3801 3801	811784.457	819954.052	重葉榕	Ficus benjamina	225	6	7	FELL	FELL	FELL	
3801	P252/CT308 P252/CT309	3801	811783.426 811782.225	819957.428 819961.739	重葉榕 重葉榕	Ficus benjamina	210 280	7	7	FELL	FELL FELL	FELL FELL	
3801	P252/CT310	3801	811779.809	819969.496	<b>垂葉榕</b>	Ficus benjamina Ficus benjamina	210	- 5	6	FELL	FELL	FELL	
3801	P252/CT311	3801	811778.480	819973.314	垂葉榕	Ficus benjamina	255	6	7	FELL	FELL	FELL	
3801	P252/CT312	3801	811777.481	819977.223	垂葉榕	Ficus benjamina	215	6	7	FELL	FELL	FELL	
3801	P252/CT313	3801	811776.405	819980.743	垂葉榕	Ficus benjamina	225	6	7	FELL	FELL	FELL	
3801 3801	P252/CT314	3801 3801	811770.989 811769.878	819930.305 819933.451	重葉榕 大葉相思	Ficus benjamina	140 220	3	7	FELL	FELL FELL	FELL	
3801	P252/CT315 P252/CT316	3801	811757.330	819933.451 819970.896	大葉相思	Acacia mangium	245	3	8	FELL FELL	FELL FELL	FELL FELL	
3801	P252/CT506	3801	811736.868	820021.775	大葉相思	Acacia manqium Acacia manqium	205	4	5	FELL	FELL	FELL	
3801	P252/CT507	3801	811728.866	820034.748	耳果相思	Acacia auriculiformis	160	4	5	FELL	FELL	FELL	
3801	P252/CT508	3801	811725.942	820039.012	大葉相思	Acacia mangium	255	5	7	FELL	FELL	FELL	
3801	P252/CT509	3801	811717.896	820049.460	大葉相思	Acacia mangium	160	4	6	FELL	FELL	FELL	
3801 3801	P252/CT510	3801 3801	811714.594 811711.315	820053.262	大葉相思 百里相思	Acacia mangium	220	5	6 7	FELL	FELL	FELL	
3801 3801	P252/CT511 P252/CT512	3801 3801	811711.315 811704.103	820056.891 820064.238	与果相思 大葉相思	Acacia auriculiformis Acacia mangium	200 205	5	7	FELL FELL	FELL FELL	FELL FELL	
3801	P252/CT513	3801	811699.979	820064.238 820068.095	大葉相思	Acacia mangium	205	5	7	FELL	FELL	FELL	
3801	P252/CT514	3801	811692.594	820074.350	大葉相思	Acacia mangium	175	5	6	FELL	FELL	FELL	
3801	P252/CT515	3801	811688.504	820077.506	大葉相思	Acacia mangium	245	5	8	FELL	FELL	FELL	
3801	P252/CT544	3801	811674.863	820053.976	台灣相思	Acacia confusa	175	7	7	FELL	FELL	FELL	
3801 3801	P252/CT545 P252/CT546	3801 3801	811675.324 811676.786	820053.377 820051.154	台灣相思 台灣相思	Acacia confusa Acacia confusa	255 230	5 8	11 11	FELL	FELL FELL	FELL FELL	
3801	P252/CT546 P252/CT547	3801	811674.578	820051.154 820053.029	台灣相思	Acacia confusa  Acacia confusa	130	5	10	FELL FELL	FELL	FELL	
3801	P252/CT548	3801	811676.225	820050.495	台灣相思	Acacia confusa	285	8	11	FELL	FELL	FELL	
3801	P252/CT549	3801	811677.397	820049.129	台灣相思	Acacia confusa	150	5	6	FELL	FELL	FELL	
3801	P252/CT550	3801	811676.920	820049.641	台灣相思	Acacia confusa	250	6	9	FELL	FELL	FELL	
3801 3801	P252/CT551	3801 3801	811678.441 811678.364	820048.391	台灣相思 大葉相思	Acacia confusa	115	4	6 5	FELL	FELL	FELL	
3801	P252/CT552 P252/CT553	3801	811678.364	820047.144 820038.225	大葉相思	Acacia mangium  Acacia mangium	170 135	4	4	FELL FELL	FELL FELL	FELL FELL	
3801	P252/CT554	3801	811678.721	820035.693	大葉相思	Acacia mangium	250	8	10	FELL	FELL	FELL	
3801	P252/CT555	3801	811677.782	820034.753	大葉相思	Acacia mangium	145	5	5	FELL	FELL	FELL	
3801	P252/CT556	3801	811677.084	820042.980	台灣相思	Acacia confusa	110	2	4	FELL	FELL	FELL	
3801	P252/CT558	3801	811674.373	820041.894	台灣相思	Acacia confusa	135	4	7	FELL	FELL	FELL	
3801	P252/CT558A	3801	811673.066	820042.919	棟	Melia azedarach	339	6	9	FELL	FELL	FELL	
3801 3801	P252/CT559	3801 3801	811674.194 811675.793	820039.949 820041.152	台灣相思 洋紫荊	Acacia confusa Bauhinia x blakeana	190 155	5	7	FELL FELL	FELL FELL	FELL FFI I	
3801	P252/CT560 P282/CT2781	3801	811675.793	820041.152 819980.528	注系刑 大葉合數	Bauhinia x blakeana Albizia lebbeck	387	5	7	FELL	FELL	FELL	
3801	P282/CT2782	3801	811732.589	819980.236	大葉合歡	Albizia lebbeck	420	7	7	FELL	FELL	FELL	
3801	P282/CT2783	3801	811705.680	819982.670	垂葉榕	Ficus benjamina	330	4	7	FELL	FELL	FELL	
3801	P282/CT2784	3801	811715.065	819959.190	重葉榕	Ficus benjamina	280	5	8	FELL	FELL	FELL	
3801	P282/CT2785	3801	811710.165	819974.829	重葉榕	Ficus benjamina	290	4	6	FELL	FELL	FELL	
3801 3801	P282/CT2786	3801 3801	811722.794 811721.805	819993.266 819994.885	銀樺	Grevillea robusta	220 160	2	7	FELL FELL	FELL FELL	FELL FELL	
3801	P282/CT2787 P282/CT2788	3801 3801	811721.805 811719.302	819994.885 819996.355	銀樺	Grevillea robusta Grevillea robusta	160 240	3	3 4	FELL FELL	FELL FELL	FELL FELL	
3801	P282/CT2789	3801	811719.302	819996.355	銀樺	Grevillea robusta	210	3	3	FELL	FELL	FELL	
3801	P282/CT2790	3801	811717.300	819999.652	銀樺	Grevillea robusta	110	2	2	FELL	FELL	FELL	
3801	P282/CT2791	3801	811707.011	820006.025	銀樺	Grevillea robusta	130	2	2	FELL	FELL	FELL	
3801 3801	P282/CT2792	3801	811702.827	820008.238	銀樺	Grevillea robusta	220	2	6	FELL	FELL	FELL	
	P282/CT2793	3801	811671.180	820035.119	台灣相思	Acacia confusa	215	6	11	FELL	FELL	FELL	í .

		Current Maintenance						Measurem Crown		Recommendation in LVP			
Contracts	Tree ID	Agency	Easting	Northing	Chinese Name	Latin Name	DBH (mm)	Spread	Height (m)	(Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
Fuiting Wester	Contracts						(mm)	(m)	(m)				
Exiting Works 3801	P282/CT2794	3801	811669.341	820036.385	台灣相思	Acacia confusa	190	5	10	FELL	FELL	FELL	
3801	P282/CT2795	3801	811671.386	820037.808	台灣相思	Acacia confusa	151	5	8	FELL	FELL	FELL	
3801	P282/CT2796	3801	811672.821	820036.394	台灣相思	Acacia confusa	167	4	6	FELL	FELL	FELL	
3801 3801	P282/CT2797	3801 3801	811673.009 811669.020	820039.742	台灣相思	Acacia confusa	145	3	10	FELL	FELL	FELL	
3801 3801	P282/CT2798 P282/CT2799	3801 3801	811669.020 811664.127	820030.417 820032.433	紅花羊蹄甲 台灣相思	Bauhinia purpurea	125 130	3	7	FELL FELL	FELL FELL	FELL FELL	
3801	P282/CT2800	3801	811661.345	820032.433 820030.472	台灣相思	Acacia confusa Acacia confusa	294	4	11	FELL	FELL	FELL	
3801	P282/CT2801	3801	811663.492	820030.472	台灣相思	Acacia confusa	135	5	9	FELL	FELL	FELL	
3801	P282/CT2802	3801	811661.830	820029.017	台灣相思	Acacia confusa	210	4	10	FELL	FELL	FELL	
3801	P282/CT2803	3801	811659.870	820029.129	台灣相思	Acacia confusa	210	4	11	FELL	FELL	FELL	
3801	P282/CT2804	3801	811658.410	820029.157	台灣相思	Acacia confusa	205	4	5	FELL	FELL	FELL	
3801 3801	P282/CT2805	3801 3801	811657.118 811655.342	820027.234	台灣相思	Acacia confusa	195	7	8	FELL	FELL	FELL	
3801 3801	P282/CT2806 P282/CT2807	3801 3801	811655.342 811657.049	820027.159 820026.390	台灣相思	Acacia confusa	280 300	7	9 8	FELL FELL	FELL FELL	FELL FELL	
3801	P282/CT2807 P282/CT2808	3801	811658.352	820026.390	口海伯芯 棒	Acacia confusa Melia azedarach	300	5	8	FELL	FELL	FELL	
3801	T4	AAHK	811325.540	817818.640	朴樹	Celtic sinensis	300	8	8	*	Excluded from the Project	Excluded from the Project	Handed over to AAHK in May 2022.
3801	T5	AAHK	811330.920	817809.530	朴樹	Celtic sinensis	201	4	8	*	Excluded from the Project	Excluded from the Project	Handed over to AAHK in May 2022.
3801	T6	3801	811517.000	820156.000	羊蹄甲屬	Bauhinia sp.	100	2	7	*	REMOVED	REMOVED	Removed due to safety concern of Airport Express Line operation.
3801	CT1	N/A	811779.400	820047.420	洋紫荊	Bauhinia x blakeana	170	6	5	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801 3801	CT10	N/A 3801	811778.996	820066.748 820061.666	黄槿	Hibiscus tiliaceus	260	8	8	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	2
3801	CT1194	3801 N/A	811656.468 811485.550	820061.666 820119.160	黃槿 黃槿	Hibiscus tiliaceus	130	4	7	TRANSPLANT *	TRANSPLANTED and REMOVED eventually	TRANSPLANTED and REMOVED eventually	Removed due to damage by typhoon Higos (18 Aug 2020).
3801	CT1384 CT1385	N/A N/A	811485.550	820119.160 820119.829	更佳 紅膠木	Hibiscus tiliaceus Lophostemon confertus	150 100	5 4	6	RETAIN	Not under 3RS contract works area  Not under 3RS contract works area	Not under 3RS contract works area  Not under 3RS contract works area	
3801	CT1386	N/A	811491.045	820120.986	大葉相思	Acacia mangium	220	6	8	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1400	N/A	811504.540	820136.560	黄槿	Hibiscus tiliaceus	110	4	6	FELL	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1407	3801	811519.870	820152.010	台灣相思	Acacia confusa	120	5	5	FELL	REMOVED	REMOVED	Removed due to safety concern of Airport Express Line operation.
3801	CT1410	3801	811524.060	820160.860	黄花夾竹桃	Thevetia peruviana	100	5	5	RETAIN	REMOVED	REMOVED	
3801	CT1412	3801	811524.592	820161.933	紅膠木	Lophostemon confertus	260	5	12	RETAIN	REMOVED	REMOVED	
3801 3801	CT1419 CT1420	3801 3801	811512.250 811510.520	820154.110 820151.960	台灣相思 黃槿	Acacia confusa Hibiscus tiliaceus	100 110	5	5	FELL FELL	REMOVED REMOVED	REMOVED REMOVED	
3801	CT1420 CT1421	3801	811511.670	820151.960 820153.020	台灣相思	Acacia confusa	100	2	7	FELL	REMOVED	REMOVED	
3801	CT1466	N/A	811461.003	820109.928	台灣相思	Acacia confusa	120	4	10	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1781	3802	811397.104	820232.882	棟	Melia azedarach	220	12	9	*	FELL	FELL	
3801	CT1782	3802	811392.512	820242.437	耳果相思	Acacia auriculiformis	300	5	8	*	FELL	FELL	
3801	CT1783	3802	811391.020	820246.866	楝	Melia azedarach	160	8	5	*	FELL	FELL	
3801 3801	CT1784	3802 3802	811385.669	820261.972	棟 互果相思	Melia azedarach	120	8	5	*	FELL	FELL	
3801	CT1785 CT1786	3802	811385.390 811373.311	820263.437 820257.049	- 二米 信志 芒果	Acacia auriculiformis	170	10	7		FELL REMOVED	FELL REMOVED	
3801	CT1787	3802	811370.279	820266.619	芒里	Mangifera indica Mangifera indica	190	8	5	*	FELL	FELL	
3801	CT1788	3802	811374.659	820286.027	細葉榕	Ficus microcarpa	180	9	5		FELL	FELL	
3801	CT1789	3802	811376.247	820288.268	耳果相思	Acacia auriculiformis	170	11	6	*	FELL	FELL	
3801	CT1790	3802	811374.306	820297.023	耳果相思	Acacia auriculiformis	130	7	4	*	FELL	FELL	
3801 3801	CT1792	N/A N/A	811729.966	820235.793	小果皂莢	Gleditsia australis	95	5	3	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1793 CT1794	N/A 3801	811729.532 811739.937	820239.130 820208.692	博倒 洋紫荊	Broussonetia papyrifera  Bauhinia x blakeana	95 230	6	7	RETAIN TRANSPLANT	Not under 3RS contract works area TRANSPLANTED and REMOVED eventually	Not under 3RS contract works area TRANSPLANTED and REMOVED eventually	
3801	CT1794 CT1795	3801	811739.346	820213.489	洋紫荊	Bauhinia x blakeana	360	6	- 8	TRANSPLANT	TRANSPLANTED and REMOVED eventually  TRANSPLANTED and REMOVED eventually	TRANSPLANTED and REMOVED eventually	
3801	CT1797	N/A	811749.218	820235.896	洋紫荊	Bauhinia x blakeana	210	8	6	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1802	N/A	811758.456	820248.276	洋紫荊	Bauhinia x blakeana	190	7	8	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1863	3801	811357.122	817711.776	藍花楹	Jacaranda mimosifolia	120	1	4	RETAIN	REMOVED	REMOVED	
3801	CT1885	3801	811353.834	817631.933	鐵刀木	Senna siamea	240	8	4	RETAIN	RETAIN	RETAIN	
3801 3801	CT1886 CT1887	3801 3801	811354.984 811355.580	817636.267 817640.384	鐵刀木 麻楝	Senna siamea Chukrasia tabularis	300 120	11 7	5 4	RETAIN RETAIN	RETAIN RETAIN	RETAIN RETAIN	
3801	CT1889	3802	811422.128	820125.551	紅花羊蹄甲	Bauhinia purpurea	235	6	8	RETAIN	FELL	FELL	
3801	CT1890	3802	811421.577	820124.746	楝	Melia azedarach	385	7	13	RETAIN	FELL	FELL	
3801	CT1892	3802	811418.941	820124.187	楝	Melia azedarach	345	7	13	RETAIN	FELL	FELL	
3801	CT1893	3802	811418.558	820134.982	銀合歡	Leucaena leucocephala	160	6	10	FELL	FELL	FELL	
3801	CT1894	3802	811415.941	820133.798	大王椰子	Roystonea regia	220	5	11	RETAIN	FELL	FELL	
3801 3801	CT1895 CT1896	N/A N/A	811417.251 811418.101	820121.145 820118.999	紅花羊蹄甲 紅花羊蹄甲	Bauhinia purpurea Bauhinia purpurea	115 120	5	9 8	FELL FELL	Not under 3RS contract works area  Not under 3RS contract works area	Not under 3RS contract works area Not under 3RS contract works area	
3801	CT1896 CT1897	3802	811416.715	820118.999 820123.334	<b>紅七干郷</b> 中	Melia azedarach	185	5	12	RETAIN	Not under SRS contract works area  FELL	Not under 3KS contract works area  FELL	
3801	CT1898	N/A	811415.329	820120.520	台灣相思	Acacia confusa	170	6	10	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1899	3802	811413.121	820127.276	楝	Melia azedarach	190	6	11	RETAIN	FELL	FELL	
3801	CT1900	N/A	811413.444	820132.697	銀合歡	Leucaena leucocephala	240	6	14	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801 3801	CT1901	3802	811411.009 811413.450	820131.884	銀合歡	Leucaena leucocephala	265	6	14	RETAIN RETAIN	FELL FFII	FELL	
3801	CT1902 CT1904	3802 3802	811413.450 811409.703	820119.803 820125.912	台灣相思	Acacia confusa Acacia confusa	115 205	8	9	RETAIN RETAIN	FELL FELL	FELL FELL	
3801	CT1904 CT1905	3802 3802	811409.703 811409.245	820125.912 820130.943	銀合歡	Acacia confusa Leucaena leucocephala	195	6	11	RETAIN RETAIN	FELL	FELL	
3801	CT1905	3802	811407.373	820130.892	銀合歡	Leucaena leucocephala	100	4	9	RETAIN	FELL	FELL	
3801	CT1907	3802	811406.374	820130.186	銀合歡	Leucaena leucocephala	155	5	11	RETAIN	FELL	FELL	
3801	CT1908	3802	811405.316	820130.175	銀合歡	Leucaena leucocephala	185	6	11	RETAIN	FELL	FELL	
3801	CT1909	3802	811404.951	820130.043	銀合歡	Leucaena leucocephala	195	6	11	RETAIN	FELL	FELL	
3801 3801	CT1910	3802	811403.694 811402.934	820129.600	銀合歡銀合歡	Leucaena leucocephala	175	6	11	RETAIN	FELL	FELL	
3801	CT1911 CT1912	3802 3802	811402.934 811402.151	820129.352 820129.015	銀合歡	Leucaena leucocephala Leucaena leucocephala	155 175	7	10 10	RETAIN RETAIN	FELL FELL	FELL FELL	
3801	CT1912 CT1913	3802	811404.413	820129.013	取 ロ 飲 棟	Melia azedarach	230	7	12	RETAIN	FELL	FELL	
3801	CT1914	3802	811402.489	820125.698	大葉相思	Acacia mangium	265	7	12	RETAIN	FELL	FELL	
3801	CT1916	N/A	811409.750	820118.537	台灣相思	Acacia confusa	120	5	6	FELL	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1917	3802	811407.774	820117.712	台灣相思	Acacia confusa	185	6	12	FELL	FELL	FELL	
3801	CT1933	3802	811395.591	820124.989	銀合歡	Leucaena leucocephala	225	8	12	FELL	FELL	FELL	
3801 3801	CT1934	3802 N/A	811394.365 811391.775	820126.533	大王椰子 大王椰子	Roystonea regia	195	3	7	FELL	FELL	FELL	
	CT1935 CT1936	N/A N/A	811391.775 811389.839	820124.898 820117.859	大土椰子 羊蹄甲屋	Roystonea regia Bauhinia spp.	175	5	8 11	FELL RFTAIN	Not under 3RS contract works area  Not under 3RS contract works area	Not under 3RS contract works area  Not under 3RS contract works area	
	C11320	N/A N/A	811389.839	820117.859 820119.495	羊蹄甲屬	Bauhinia spp.  Bauhinia spp.	160	5	13	RETAIN	Not under 3RS contract works area  Not under 3RS contract works area	Not under 3RS contract works area  Not under 3RS contract works area	
3801	CT1937			320113.433		buuninu spp.	100	-	13				1
	CT1937 CT1938	N/A N/A	811387.277	820125.171	大王椰子	Roystonea regia	295	7	13	FELL	Not under 3RS contract works area	Not under 3RS contract works area	
3801 3801 3801 3801	CT1937 CT1938 CT1939	N/A N/A	811385.278	820125.171 820121.629	大王椰子 大王椰子	Roystonea regia Roystonea regia	295 135	7	13 8	FELL RETAIN	Not under 3RS contract works area  Not under 3RS contract works area	Not under 3RS contract works area  Not under 3RS contract works area	
3801 3801 3801	CT1938	N/A			大王椰子 大王椰子 大王椰子 大王椰子			5					

							Tree Measurement						
Contracts	Tree ID	Current Maintenance Agency	Easting	Northing	Chinese Name	Latin Name	DBH (mm)	Crown Spread (m)	Height (m)	Recommendation in LVP (Jan 2021)	Status as of end 2022	Status as of end 2023	Remark
Exiting Works C	ontracts	•		•			•			•			
3801	CT1942	N/A	811376.816	820119.971	大王椰子	Roystonea regia	280	4	11	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1943	N/A	811386.611	820111.907	羊蹄甲屬	Bauhinia spp.	145	4	14	FELL	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1944	N/A	811384.836	820108.993	羊蹄甲屬	Bauhinia spp.	125	3	8	FELL	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1945	N/A	811383.257	820110.775	大葉相思	Acacia mangium	185	4	10	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1946	N/A	811384.182	820112.194	大葉相思	Acacia mangium	190	6	12	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1947	N/A	811380.318	820110.963	棟	Melia azedarach	365	8	12	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1948	N/A	811379.908	820110.229	棟	Melia azedarach	250	7	11	FELL	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT1949	N/A	811381.211	820110.008	大葉相思	Acacia mangium	245	7	11	FELL	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT25	N/A	811765.890	820102.090	黃槿	Hibiscus tiliaceus	350	8	8	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT26	N/A	811762.970	820103.290	黃槿	Hibiscus tiliaceus	210	4	8	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT3	N/A	811777.300	820054.800	洋紫荊	Bauhinia x blakeana	117	8	6	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT4	N/A	811776.990	820058.030	洋紫荊	Bauhinia x blakeana	130	7	5	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT5	N/A	811777.050	820062.150	黄槿	Hibiscus tiliaceus	350	10	9	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT6	N/A	811772.600	820062.760	黄槿	Hibiscus tiliaceus	340	8	10	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT7	N/A	811771.720	820066.210	黄槿	Hibiscus tiliaceus	360	11	10	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3801	CT8	N/A	811774.646	820069.519	黄槿	Hibiscus tiliaceus	660	11	11	RETAIN	Not under 3RS contract works area	Not under 3RS contract works area	
3802	ESW001	3802	811355.878	820280.068	番石榴	Psidium guajava	250	7	8		FELL	FELL	
3802	ESW002	3802	811358.763	820281.225	棟	Melia azedarach	170	8	8		FELL	FELL	
3802	ESW003	3802	811370.340	820266.583	棟	Melia azedarach	100	6	5		FELL	FELL	
3802	ESW004	3802	811358.218	820227.985	細葉榕	Ficus microcarpa	150	8	6	•	FELL	FELL	
3802	T002	3802	811399.004	820126.502	銀合歡	Leucaena leucocephala	160	4	8	•	FELL	FELL	
3802	T005	3802	811397.729	820125.602	銀合歡	Leucaena leucocephala	160	4	8		FELL	FELL	
3802	T011	3802	811412.267	820133.294	黄花夾竹桃	Thevetia peruviana	100	4	6	*	FELL	FELL	
3802	T022	3802	811410.119	820128.730	銀合歡	Leucaena leucocephala	100	4	6	*	FELL	FELL	
3802	T030	3802	811419.596	820122.636	宮粉羊蹄甲	Bauhinia variegata	100	3	4	*	FELL	FELL	
3802	T031	3802	811418.214	820122.689	宮粉羊蹄甲	Bauhinia variegata	110	4	5		FELL	FELL	
3802	AT1	3802	811378.106	820243.758	細葉榕	Ficus microcarpa	700	6	7	*	FELL	FELL	
3802	AT2	3802	811401.388	820223.811	棟	Melia azedarach	300	4	9	*	FELL	FELL	
3802	AT3	3802	811372.285	820309.262	耳果相思	Acacia auriculiformis	170	4	7	*	FELL	FELL	
3802	AT4	3802	811449.757	820186.097	楝	Melia azedarach	300	5	9	*	FELL	FELL	
3802	AT5	3802	811466.876	820192.065	愛氏松	Pinus elliottii	130	3	6	*	FELL	FELL	
3802	AT6	3802	811527.327	820166.261	潺稿樹	Litsea glutinosa	150	5	8	*	FELL	FELL	
(*): Not provided in LVP									Retain	320	49	37	
NA for status: Not yet received by contractor in the reporting period									Transplant	36	26	26	
REMOVED for status: Tree felling due to typhoon or works not related to this Project								T	o-be-felled	0	10	0	
Green colour for cells: Changed of tree status during the period from end 2022 to end 2023									Fell	2219	2328	2339	
									NA	0	0	0	