



Annual EPBC Act Approval Compliance Report- North East Link

06 Jun 2025

EPBC Approval: 2018/8142

Sign up for updates
northeastlink.vic.gov.au



Declaration of Accuracy

I declare that all the information and documentation supporting this compliance report is true and correct in every particular. I am authorised to bind the approval holder to this declaration and that I have no knowledge of that authorisation being revoked at the time of making this declaration.

In making this declaration, I am aware that sections 490 and 491 of the Environment Protection and Biodiversity Conservation Act 1999 (Cth) (EPBC Act) make it an offence in certain circumstances to knowingly provide false or misleading information or documents. The offence is punishable on conviction by imprisonment or a fine, or both. I declare that all the information and documentation supporting this compliance report is true and correct in every particular. I am authorised to bind the approval holder to this declaration and that I have no knowledge of that authorisation being revoked at the time of making this declaration.

Signed:



Full Name:

Jim Waller

Position:

Executive Program Director of the North East Link Program, in my capacity as a statutory delegate of the Secretary to the Department of Transport and Planning (the Project Authority for North East Link Project).

Organisation:

Major Road Projects Victoria (MRPV) (a division of the Victorian Infrastructure Delivery Authority (VIDA) (ABN 69 9812 087 82)

Date:

18 June 2025

Contents

| | | |
|------------|------------------------------------------------|----|
| 1 | Introduction..... | 4 |
| 1.1 | Purpose of this Report..... | 4 |
| 2 | Description of activities | 4 |
| 2.1 | Overview of project | 4 |
| 2.2 | Works undertaken during reporting period | 5 |
| 3 | Approval condition compliance | 8 |
| 4 | New environmental risks | 13 |
| 5 | Appendices..... | 14 |
| Appendix A | A. Salvaged Matted Flax Lily Locations | 15 |
| Appendix B | Matted Flax Lily Annual Compliance Report..... | 16 |
| Appendix C | Studley Park Gum Annual Compliance Report..... | 17 |

Figures

| | |
|-----------------------------|---|
| Figure 1 – Project Map..... | 5 |
|-----------------------------|---|

Tables

| | |
|----------------------------------------|---|
| Table 1 – Key Project EPBC Dates | 4 |
|----------------------------------------|---|

1 Introduction

1.1 Purpose of this Report

This compliance report covers the reporting period between 18 May 2024 and 17 May 2025 in respect of EPBC Approval 2018/8142 issued to the Department of Transport and Planning (DTP) on 12 December 2019, as varied on 28 August 2020 and 29 June 2021 (EPBC Approval 2018/8142). The purpose of this report is to document compliance with the conditions for the *Environment Protection Biodiversity Conservation Act 1999* (EPBC Act) Approval 2018/8142 Condition 12. Details of compliance are provided, and where appropriate, the timing of completion of individual actions is identified.

The key dates that relate to the approval are detailed in Table 1.

Table 1 – Key Project EPBC Dates

| Action | Key Date |
|-------------------------------------|-------------------|
| Commonwealth approval | 12/12/2019 |
| Commencement of the action | 18/05/2020 |
| Commonwealth Variation Approval | 28/08/2020 |
| Commonwealth Variation Approval | 29/06/2021 |
| Expiry of the Commonwealth Approval | 03/10/2039 |

2 Description of activities

2.1 Overview of project

Major Road Projects Victoria (MRPV), a division of the Victorian Infrastructure Delivery Authority (VIDA), is responsible for delivering the North East Link, M80 Ring Road Completion, and Eastern Freeway Upgrades including Eastern Busway (referred to herein as 'the Project') on behalf of the Victorian State government. The three interrelated projects were previously referred to as the North East Link Project, an approved action under EPBC Approval 2018/8142.

The Project will upgrade the Metropolitan Ring Road (M80) and the Eastern Freeway from Hoddle Street to Springvale Road and create a new connection between these two roads. The Project has been broken down into packages to allow seamless delivery. The initial phase – Enabling Works (previously referred to as Early Works) – allowed for utilities and secondary infrastructure to be prepared prior to the major development. Works included the relocation of utilities, relocation of Sports and Recreation spaces and development of Park and Ride services for Public Transport linkages. The subsequent packages, the North East Link (previously known as Central Package), M80 Ring Road Completion, and Eastern Freeway Upgrades (Burke Rd to Tram

Rd) are currently in the construction phase. Two further packages Eastern Freeway – Hoddle St to Burke Rd and Eastern Freeway – Tram Rd to Springvale Rd will complete the Eastern Freeway Upgrades. See Figure 1 – Project Map– Project Map for an overview of the Project.

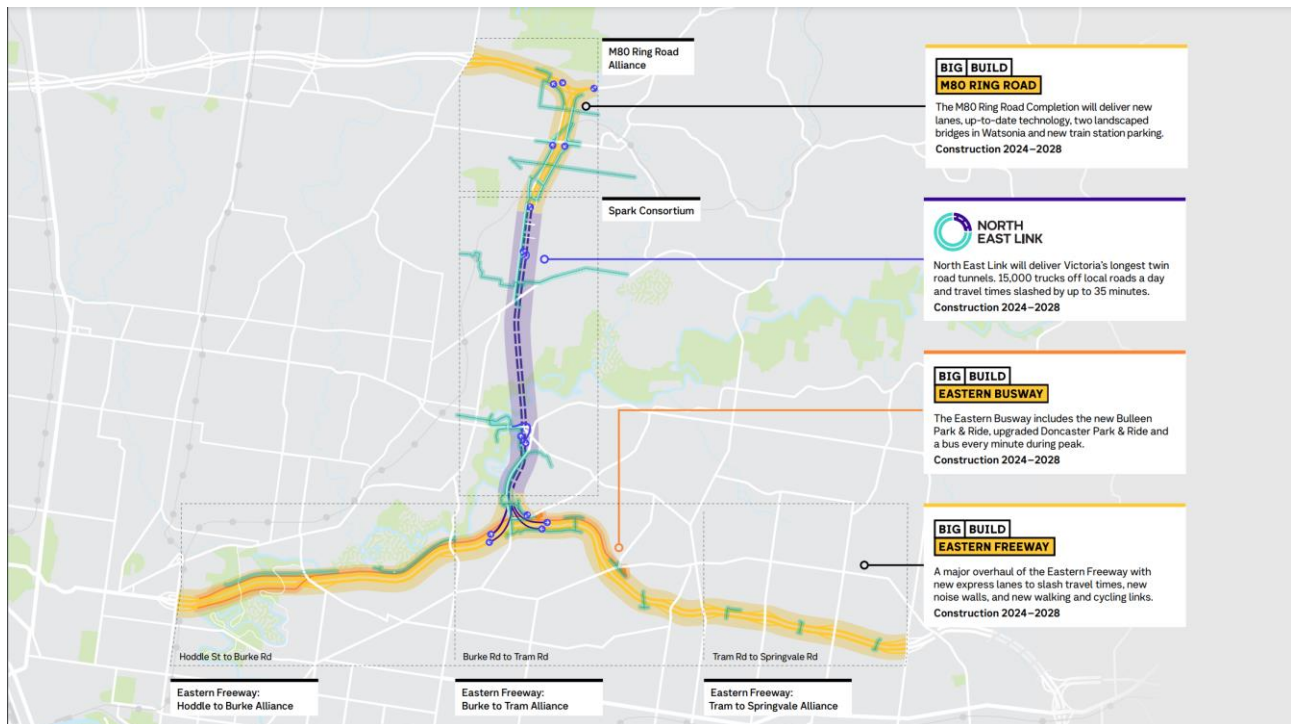


Figure 1 – Project Map

2.2 Works undertaken during reporting period

The following works have been undertaken in the approval area during the 2024-2025 reporting period.

2.2.1 North East Link

- Driven tunnel works including:
 - Tunnel Boring Machine (TBM) assembly, boring and launch
 - TBM back-end works, and tunnel fit out
 - Vent tunnel excavation completion and permanent lining installation
 - Sequential Excavation Method Mainline tunnel excavation and cross passage excavation
 - Acoustic shed assembled at Bulleen for Sequential Excavation Method spoil
- Surface works including:
 - Installation of utility gantries
 - Removal of site sheds and workers' car park
 - Permanent and temporary drainage works for realignment of Banyule Creek

- Northern Ventilation Building structure progress
- Haul road instalment and ventilation tunnel culvert works
- Piling, utilities and drainage works
- Flood and retaining wall and batter construction
- Cut and cover works including:
 - Box excavation and Fill, Rio, Pour (FRP) works
 - TBM cradle installation, breakthrough at excavation box and retrieval gantry works
 - Ramp piling and excavation
 - Blinding and micro piling
 - Roof slab construction and conveyor installation
 - Precast plank installation, capping beam completion and flood wall works
 - Motorway Control Centre enabling works

2.2.2 Eastern Freeway Upgrades: Burke to Tram

- Site Investigation works including utilities, geotechnical testing, and structure inspections
- Site establishment works including demolition and compound construction works
- Relocation of utilities
- Civil works including:
 - Profiling
 - Asphaltting
 - Line marking
 - Traffic barrier replacement
 - Drainage
 - Construction of permanent barriers
- Construction of hoarding and temporary shared user paths (SUPs)
- Grubbing and earthworks including tree and vegetation removal
- Traffic signal modifications
- Construction of new bus stops and implementation of bus timetable changes
- Construction of new structures including piling, pile caps, piers, crossheads & retaining walls for the new Bulleen Road interchange and new Estelle and Heyington shared use path bridges
- Dewatering of the wetlands and construction of crossings of the Koonung Creek
- Commencement of ITS works

2.2.3 M80 Ring Road Completion

- Site establishment works including clearing, tree and vegetation removal, topsoil stripping, installation of environmental controls, installation of temporary hoarding, fencing, concrete barriers, access gates and construction of temporary pavements and hardstands
- Temporary realignment of roads and traffic signals
- Utility relocation and removal works
- Bulk earthworks
- Roadworks including subgrade preparation and pavement construction
- Retaining and noise wall works including piling, foundations, in-situ and precast concrete construction, post and panel installation
- Bridge structure works including piling, foundations, columns/piers and headstocks, installations and deck construction
- Rail works including power/comms service relocations, overhead structure, tunnel and bridge structure and track works

3 Approval condition compliance

| Condition No. | Approval Condition | Compliance Status | Comments and supporting documentation | | | | | | | | | | | | | | | | | | | | |
|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------|----------|--------------------------|------------|------------|------------------|---|-----------|------------|------------------|----|------------|-----------------------|------------------|-----|--------------|------------|----------------------------------------------------|---|
| 1 | Unless otherwise agreed to in writing by the Minister, the approval holder must not clear more than: | | | | | | | | | | | | | | | | | | | | | | |
| | a) 139 Matted Flax-lily plants and/or patches of Matted Flax-lily | Compliant | <div>The Project has salvaged 132 of the 139 plants/patches of Matted Flax-lily (MFL) and is therefore compliant within the scope of the approval. There are currently no plans to salvage further MFL as impacts to known individuals have been avoided.</div> <table><tr><th>Pre-Clearance survey date</th><th>Date of Salvage</th><th>Location</th><th>Number of plants/patches</th></tr><tr><td>March 2020</td><td>01/04/2020</td><td>Simpson Barracks</td><td>7</td></tr><tr><td>July 2020</td><td>02/09/2020</td><td>Simpson Barracks</td><td>20</td></tr><tr><td>April 2021</td><td>23/08/2021-24/08/2021</td><td>Simpson Barracks</td><td>103</td></tr><tr><td>October 2023</td><td>10/10/2023</td><td>M80 Interchange Grimshaw Street Railway Reserve</td><td>2</td></tr></table> <div>The locations of the MFL salvaged to date are presented in Appendix A.</div> | Pre-Clearance survey date | Date of Salvage | Location | Number of plants/patches | March 2020 | 01/04/2020 | Simpson Barracks | 7 | July 2020 | 02/09/2020 | Simpson Barracks | 20 | April 2021 | 23/08/2021-24/08/2021 | Simpson Barracks | 103 | October 2023 | 10/10/2023 | M80 Interchange Grimshaw Street Railway Reserve | 2 |
| | Pre-Clearance survey date | Date of Salvage | Location | Number of plants/patches | | | | | | | | | | | | | | | | | | | |
| March 2020 | 01/04/2020 | Simpson Barracks | 7 | | | | | | | | | | | | | | | | | | | | |
| July 2020 | 02/09/2020 | Simpson Barracks | 20 | | | | | | | | | | | | | | | | | | | | |
| April 2021 | 23/08/2021-24/08/2021 | Simpson Barracks | 103 | | | | | | | | | | | | | | | | | | | | |
| October 2023 | 10/10/2023 | M80 Interchange Grimshaw Street Railway Reserve | 2 | | | | | | | | | | | | | | | | | | | | |
| b) 11.866 hectares of Plains Grassy Woodland within Simpson Barracks | Compliant | Vegetation removal has been completed in this location. Reconciliation will occur at the completion of the North East Link works to confirm the expected removal of 11.852 ha of Plains Grassy Woodland, therefore the Project is compliant with this Condition. | | | | | | | | | | | | | | | | | | | | | |
| 2 | To compensate for the clearing the number of Matted Flax-lily plants and/or patches of Matted Flax-lily: | | | | | | | | | | | | | | | | | | | | | | |
| | a) Prior to any clearance, the approval holder must undertake a pre-clearance survey to identify the total numbers of Matted Flax-lily plants and patches of Matted Flax-lily that, if not salvaged, would be impacted by the approved action | Compliant | As outlined above, pre-clearance surveys have occurred in March 2020, July 2020, April 2021, and December 2022 prior to salvaging events for MFL. The pre-clearance surveys were undertaken in accordance with the MFL Salvage and Translocation Plan (Rev 5 - December 2022) (Salvage and Translocation Plan). The Project is therefore compliant with this Condition. | | | | | | | | | | | | | | | | | | | | |
| | b) Prior to construction, the approval holder must salvage all Matted Flax-lily plants and patches of Matted Flax-lily that were previously recorded in a pre-clearance survey and that would otherwise be impacted due to the approved action. In the event that construction occurs in stages, prior to commencing each stage the approval holder must salvage all Matted Flax-lily plants and patches of Matted Flax-lily that were previously recorded in a pre-clearance survey and that would otherwise be impacted by that stage of work | Compliant | MFL salvage and translocation has been completed for Enabling Works, North East Link, and M80 Ring Road Completion packages in accordance with the Salvage and Translocation Plan. No further MFL impacts are anticipated, therefore the Project is compliant with this Condition. | | | | | | | | | | | | | | | | | | | | |
| | c) The approval holder must propagate the salvaged Matted Flax-lily plants and patches and translocate them, excepting some Matted Flax-lily plants and patches that may be kept as an | Compliant | As outlined in the Salvage and Translocation Plan, sufficient material was taken from each plant to generate the required six (6) clones per plant/patch. The individuals were salvaged and processed at the selected nursery in accordance with the Salvage and Translocation Plan and are surviving at the time of reporting. Therefore, the Project is compliant with this Condition. | | | | | | | | | | | | | | | | | | | | |

| Condition No. | Approval Condition | Compliance Status | Comments and supporting documentation |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | insurance population, to a recipient site. The number of Matted Flax-lily plants and patches kept as an insurance population must not be the majority of Matted Flax-lily plants or patches propagated. All propagated Matted Flax-lily plants and patches of Matted Flax-lily, excepting those kept as an insurance population, must be translocated within 2 years of salvage of each Matted Flax-lily plant and patch of Matted Flax-lily. | | The MFL have been planted in two batches. The Batch 1 MFL plants were translocated to Cherry Street Reserve in August 2022 while the Batch 2 MFL were planted in October 2023 at Cherry Street Reserve and Gresswell Forest Nature Conservation Reserve both within two years of Salvage (April/September 2020, August 2021 (Batch 1), October 2023 (Batch 2). As of February 2025, there are currently 264 plants held as an insurance population at the selected nursery with the majority of MFL translocated to the above two recipient sites. The Project is therefore compliant with the Condition. |
| | d) The approval holder must manage the recipient site for a period of 10 years commencing on the date that the first Matted Flax-lily plant or patch of Matted Flax-lily is translocated to the recipient site | Compliant | Translocation of the MFL plants from Batch 1 and Batch 2 occurred in August 2022 and October 2023, respectively, and management of the sites is ongoing. The management of the sites is detailed in site schedules for both Cherry Street Reserve and Gresswell Forest Nature Conservation Reserve. Maintenance will be continued and adapted as the needs of the MFL plants change over time. The Project is therefore compliant with this Condition. |
| | e) The approval holder must monitor the recipient site for a period of at least 10 years, commencing on the date that the first Matted Flax-lily plant or patch of Matted Flax-lily is translocated to the recipient site and, concluding no sooner than 5 years after the last Matted Flax-lily plant or patch of Matted Flax-lily is translocated to the recipient site | Compliant | A total of 528 MFL have been translocated to date. MRPV have commenced monitoring of the recipient sites (Gresswell Forest and Cherry Street). Monitoring is occurring at the frequencies outlined in the Salvage & Translocation Plan. Monitoring occurred at both sites for four weeks in November 2023, with further monitoring occurring monthly from December 2023 - April 2024. For Batch 2, monitoring was undertaken quarterly from April 2024 – March 2025. The next Batch 2 monitoring event will take place in June 2025, followed by biannual monitoring beginning December 2025 until at least winter 2028. Batch 1 monitoring is being undertaken bi-annually with the next monitoring event scheduled for June 2025, due to conclude in June 2028. Therefore, the Project is compliant with this Condition. |
| | f) The approval holder must, until otherwise agreed in writing by the Minister, provide the Department with a report each year as part of the compliance report, which must detail the numbers of Matted Flax-lily plants and patches that have been translocated to the recipient site and the numbers of translocated and propagated plants and patches that have survived until the end of the period reported on. The report must also document threats to the translocated Matted Flax-lily plants and patches and any management actions, including corrective actions, taken or proposed | Compliant | A copy of the MFL Annual Compliance Report can be found in Appendix B. Monitoring and management of the translocation site is ongoing. In August 2022 108 MFL plants (Batch 1) were translocated into Cherry Street Reserve. On 17 January 2025, 79 were observed to be alive and only one is considered dead. The decrease from 96 live individuals from March 2024 to 79 in January 2025, is represented by an increase in the number of dormant individuals to 28. This increase is likely attributed to the drier conditions observed in the lead up to this year's annual monitoring. In October 2023 additional 420 MFL plants (Batch 2) were translocated in Cherry Street Reserve and Gresswell Forest Nature Conservation Reserve. In January 2025, 393 were still alive, only one is considered dead and 27 considered dormant. This increase in dormant individuals from 13 in September 2024 to 27 in January 2025, is likely attributed to drier conditions observed in the lead up to this year's annual monitoring. The threats to MFL survival include high amounts of biomass, herbivory and waterlogging. Corrective actions have been taken including adding more soil to some MFL plants, hand-weeding around MFL plants, and cool burning. The Project is therefore compliant with the Condition. |
| 3 | By implementing contingency measures, the approval holder must ensure that a minimum of 85 per cent of 4 times the number of salvaged Matted Flax-lily plants and patches have survived at the recipient site at least 5 years after the date the last Matted Flax-lily plant or patch, excepting plants or patches from the insurance population, is translocated to the recipient site. The approval holder must ensure that the location of each translocated Matted Flax-lily plant and patch is recorded in the Atlas of Living Australia and Victorian Biodiversity Atlas within 6 months of being translocated | Compliant | To comply with this requirement, at the end of five years at least 449 (85% of 528) of the MFL plants at Cherry Street Reserve and Gresswell Forest Nature Conservation Reserve need to survive. As of January 2025, 79 are confirmed to be alive from Batch 1 and 393 from Batch 2 in total 472 (89%). MFL location data for the MFL plants that are reported on in this report have been added to the VBA under project ID 6931 for Batch 1 and 5731 for Batch 2. MFL location data for the MFL plants that are reported on in this report have been submitted to the Atlas of Living Australia and assigned number 175071 for Batch 1 and 195464 for Batch 2 to the data. The Project is therefore compliant with this Condition. |
| 4 | If the Minister is not satisfied that the requirements of condition 3 have been, or are likely to be, achieved, and has given the approval holder written notice to this effect, the approval holder must: | | |
| | a) Within 1 year of receiving written notification by the Minister to this effect, plant propagated Matted Flax-lily plants and/or patches to the recipient site in accordance with directions made by the Minister | Not Applicable | MRPV have not received written notification from the Minister indicating that the Minister is not satisfied that the requirements of Condition 3 have been, or are likely to be, achieved. Therefore, Condition 4a has not been triggered. |
| | b) Provide the Department with a report each year for an additional 5 years as part of the compliance report, which must detail the numbers of Matted Flax-lily plants and patches that have been translocated to the recipient site and the numbers of translocated and propagated plants and patches that have | Not Applicable | MRPV have not received written notification from the Minister as described in Condition 4. Therefore, Condition 4b has not been triggered. |

| Condition No. | Approval Condition | Compliance Status | Comments and supporting documentation |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | survived until the period reported on. The report must also document threats to the translocated Matted Flax-lily plants and patches and any management actions, including corrective actions, taken or proposed | | |
| | c) Each 12 months, for the following 5 years, the approval holder must translocate an additional number of Matted Flax-lily plants and/or patches to the recipient site equal or greater than the number which have not survived during the preceding 12 months. The translocated Matted Flax-lily plants and patches must be sourced from the plants and patches propagated as required under condition 2c | Not Applicable | MRPV have not received written notification from the Minister as described in Condition 4. Therefore, Condition 4c has not been triggered. |
| 5 | Prior to the commencement of the action at Simpson Barracks, to compensate for the loss of up to 11.866 hectares of Plains Grassy Woodland, the approval holder must establish an offset in accordance with the Victorian Government Guidelines and provide to the Department written evidence that DELWP is satisfied that the offset meets the requirements of the Victorian Government Guidelines. Within 2 weeks of the offset being established, the approval holder must provide the Department with evidence that the offset has been established | Compliant | In accordance with Victorian Government Guidelines, the Project has secured sufficient native vegetation offsets to compensate for the loss of up to 11.866 ha of Plains Grassy Woodland at Simpson Barracks. Offsets were secured and evidence provided to the Department over the course of 2020, therefore the Project is compliant with this Condition. |
| 6 | The approval holder must implement the Studley Park Gum Management Framework for the period of effect of the approval. The approval holder must provide the Department with a report, as part of the compliance report, every year for 3 years, commencing from the date the first Studley Park Gum tree is planted in accordance with the Studley Park Gum Management Framework. This report must detail the number, condition, and threats faced by the Studley Park Gum trees that have been planted, as well as any maintenance or corrective actions that have been taken or are proposed | Compliant | <p>The Studley Park Gum (SPG) Management Framework was prepared and published in October 2021 and is available on the Project website (the website) https://bigbuild.vic.gov.au/_data/assets/pdf_file/0009/527094/Studley-Park-Gum-Management-Framework-November-2021.pdf.</p> <p>Implementation of the Framework has been ongoing since the planting of saplings at three recipient sites between May 2021 and May 2022. The SPG Annual Compliance Report (Appendix C of this report) details the number, condition, and threats faced by the trees, as well as maintenance and/or corrective actions, therefore the Project is compliant with this Condition.</p> |
| 7 | The approval holder must notify the Department in writing of the date of commencement of the action within 10 business days after the date of commencement of the action | Compliant | Written notification was sent to DCCEEW on 28 May 2020 notifying of the commencement of the action on 18 May 2020, therefore the Project is compliant with this Condition. |
| 8 | The approval holder must maintain accurate and complete compliance records | Compliant | MRPV is maintaining compliance records in accordance with this Condition. |
| 9 | If the Department makes a request in writing, the approval holder must provide electronic copies of requested compliance records to the Department within the timeframe specified in the request, or an alternative timeframe agreed in writing with the Department | Not Applicable | Condition 9 has not been triggered as no request from the Department has been made at the time of preparing this report. |
| 10 | The approval holder must: | | |
| | a) Publish the Salvage and Translocation Plan and Studley Park Gum Management Framework, not as an attachment or appendix within a larger document, on the website within 20 business days of the date of this approval of the action, or of the date a revised | Compliant | The two plans were initially published on the Project website on the 19/12/2019. The 'Matted Flax-lily Salvage and Translocation Plan' was updated in Dec 2022 (Rev 5) and published on the website on 02/10/2023. As approval was received from DCCEEW on 29/09/23, therefore the 20 business day requirement was met. The 'Studley Park Gum Management Framework' (Rev 3, October 2021) remains available on the website. The Project is compliant with this Condition. |

| Condition No. | Approval Condition | Compliance Status | Comments and supporting documentation |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | action management plan is submitted to the Minister or the Department, unless otherwise agreed to in writing by the Minister | | |
| | b) Exclude or redact sensitive ecological data from plans published on the website or provided to a member of the public; and | Compliant | No information was required to be redacted. The Project is therefore compliant with this Condition. |
| | c) Keep plans published on the website until the end date of this approval | Compliant | The Studley Park Gum Management Framework and Matted Flax-lily Salvage and Translocation Plan continue to be available on the Project website. The Studley Park Gum Management Framework is available at https://bigbuild.vic.gov.au/__data/assets/pdf_file/0009/527094/Studley-Park-Gum-Management-Framework-November-2021.pdf The Matted Flax-lily Salvage and Translocation Plan is available at https://bigbuild.vic.gov.au/__data/assets/pdf_file/0004/527098/Matted-Flax-lily-salvage-and-translocation-plan-December-2022.pdf The Project is therefore compliant with this Condition. |
| 11 | The approval holder must ensure that any monitoring data (including sensitive ecological data), surveys, maps, and other spatial and metadata required under conditions of this approval, is prepared in accordance with the Department's Guidelines for biological survey and mapped data (2018) and submitted electronically to the Department as part of the reports required under condition 2f, condition 4b and condition 6 | Compliant | The SPG and MFL Annual Compliance Reports (Appendix B and Appendix C) containing monitoring data will be provided to speciesmetadata@environment.gov.au as required by the Department's Guidelines for biological survey and mapped data (2018), therefore the Project is compliant with this Condition. |
| 12 | Unless otherwise agreed to in writing by the Minister, the approval holder must prepare a compliance report for each 12-month period following the date of commencement of the action until the approval expires, or otherwise in accordance with an annual date that has been agreed to in writing by the Minister. The approval holder must: | | |
| | a) Publish each compliance report on the website within 60 days following the relevant 12-month period; | Compliant | As the date of commencement of the action was the 18th of May 2020, the first Annual Compliance Report covered the period to 17th of May 2021 and was published on the Project website on the 15th of July 2021. The 2021/2022 Annual Compliance Report was published on the Project website on the 13th of July 2022. The 2022/2023 Annual Compliance Report was published on the Project website on the 16th of July 2023, and the 2023/2024 Annual Compliance Report was published on the Project website on the 16th of July 2024. The 2024/2025 Annual Compliance Report covers the period between 18th May 2024 – 17th May 2025, and as such, will be published on the Project website by the 8th of August 2025 to remain compliant with this Condition. |
| | b) Notify the Department by email that a compliance report has been published on the website and provide the weblink for the compliance report within five business days of the date of publication; | Compliant | The Department was notified by email within five business days of the 2020/2021, 2021/2022, 2022/2023 and 2023/2024 Annual Compliance Reports being published on the Project website. The Department will be notified by email within five business days of the publication of the 2024/2025 Annual Compliance Report. |
| | c) Keep all compliance reports publicly available on the website until this approval expires; | Compliant | All previous Annual Compliance Reports are publicly available on the Project website at https://bigbuild.vic.gov.au/library/north-east-link/reports/compliance-reports . The Project is therefore compliant with this Condition. |
| | d) Exclude or redact any sensitive ecological data or other sensitive information from compliance reports published on the website; and | Not Applicable | The Annual Compliance Report has been reviewed to determine if any sensitive ecological data was required to be redacted. Condition 12d was not triggered as no sensitive ecological data was identified. |
| | e) Where any sensitive ecological data or other sensitive information has been excluded from the version published, submit the full compliance report to the Department within 5 days of publication | Not Applicable | The Annual Compliance Report has been reviewed to determine if any sensitive ecological data was required to be redacted. Condition 12e was not triggered as no sensitive ecological data has been excluded. |
| 13 | The approval holder must notify the Department in writing of any: incident, non-compliance with the conditions, or non-compliance with the commitments made in plans. The notification must be given as soon as practicable, and no later than two business days after becoming aware of the incident or non-compliance. The notification must specify: | | |

| Condition No. | Approval Condition | Compliance Status | Comments and supporting documentation |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| | a) Any condition which is or may be in breach; | Compliant | There have been no notifiable incidents or non-compliances during the reporting period. The Project is therefore compliant with this Condition. |
| | b) A short description of the incident and/or non-compliance; and | Compliant | There have been no notifiable incidents or non-compliances during the reporting period. The Project is therefore compliant with this Condition. |
| | c) The location (including co-ordinates), date and time of the incident and/or non-compliance. In the event the exact information cannot be provided, provide the best information available | Compliant | There have been no notifiable incidents or non-compliances during the reporting period. The Project is therefore compliant with this Condition. |
| 14 | The approval holder must provide to the Department the details of any incident or non-compliance with the conditions or commitments made in plans as soon as practicable and no later than 10 business days after becoming aware of the incident or non-compliance, specifying: | | |
| | a) Any corrective action or investigation which the approval holder has already taken or intends to take in the immediate future; | Not Applicable | There have been no notifiable incidents or non-compliances during the 2024/2025 compliance reporting period. |
| | b) The potential impacts of the incident or non-compliance; and | Not Applicable | There have been no notifiable incidents or non-compliances during the 2024/2025 compliance reporting period. |
| | c) The method and timing of any remedial action that will be undertaken by the approval holder | Not Applicable | There have been no notifiable incidents or non-compliances during the 2024/2025 compliance reporting period. |
| 15 | The approval holder must ensure that independent audits of compliance with the conditions are conducted as requested in writing by the Minister | Not Applicable | Condition 15 has not been triggered as no request has been received from the Minister for an independent audit. |
| 16 | For each independent audit, the approval holder must: | | |
| | a) Provide the name and qualifications of the independent auditor and the draft audit criteria to the Department | Not Applicable | Not Applicable - Condition 15 has not been triggered as no request has been received from the Minister for an independent audit. |
| | b) Only commence the independent audit once the audit criteria have been approved in writing by the Department | Not Applicable | Not Applicable - Condition 15 has not been triggered as no request has been received from the Minister for an independent audit. |
| | c) Submit an audit report to the Department within the timeframe specified in the approved audit criteria | Not Applicable | Not Applicable - Condition 15 has not been triggered as no request has been received from the Minister for an independent audit. |
| 17 | The approval holder must publish the audit report on the website within 10 business days of receiving the Department's approval of the audit report and keep the audit report published on the website until the end date of this approval | Not Applicable | Not Applicable - Condition 15 has not been triggered as no request has been received from the Minister for an independent audit. |
| 18 | Within 30 days of the completion of the action, the approval holder must notify the Department in writing and provide completion data | Not Applicable | Not Applicable - the action has not yet been completed. |

4 New environmental risks

Over the course of the 2024/2025 reporting period no new risks have been identified. MRPV will continue to monitor and manage environmental risk potential as the Project progresses.

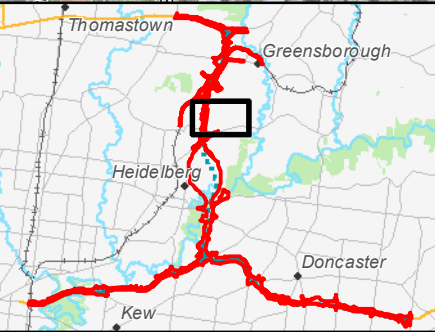
5 Appendices

A. Salvaged MFL Locations

B. Matted Flax Lily Annual Compliance Report

C. Studley Park Gum Annual Compliance Report

Appendix A A. Salvaged Matted Flax Lily Locations





Paper Size A3

0 25 50

Meters

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 55

N

Legend

- Existing Matted Flax-lily
- Matted Flax-lily to be removed
- Project Boundary (SCO GC98/Inc Doc/PSA)

NORTH EAST LINK
PROGRAM

GHD

North East Link Project

Date: 19 May 2023
Rev A

**Matted Flax-lily
Removal Locations**



Paper Size A3

0

25

50

Meters

N

Legend

Yellow dot

Existing Matted Flax-lily

Pink dot

Matted Flax-lily to be removed

Red outline

Project Boundary (SCO GC98/Inc Doc/PSA)

NORTH EAST LINK
PROGRAM

GHD

North East Link Project

Date: 19 May 2023
Rev A

Matted Flax-lily
Removal Locations

Figure 1

Conditions of Use
This document has been developed for the purposes of the North East Link Project. Recipients of this document:
- are subject to obligations of confidentiality in relation to this document; and
- may not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice.

Security Classification: OFFICIAL - Sensitive
G:\311\35006\GIS\Maps\Working\Operational\Ecology\Ad hoc\20230519_MFL_Removal\20230519_MFL_Removal_Mapping.aprx

180 Lonsdale Street, Melbourne VIC 3000 Australia T 61 3 8687 8000 E melmail@ghd.com W www.ghd.com
Data Sources: CIP Imagery - DELWP - 2021 | Cadastre, Roads, Planning Zones - Vicmap - 2021 | NELP data - 2022 Created by:kgardner

Appendix B Matted Flax Lily Annual Compliance Report



MATTED FLAX-LILY 2024 ANNUAL COMPLIANCE REPORT

NEL-PW-GHD-9990-EEE-REP-0076

North East Link Program

Revision 0
28/05/2025

→ **The Power of Commitment**



Conditions of use: This report has been prepared for North East Link Program, a division of the Victorian Infrastructure Delivery Authority, for the Minister of Planning to address the requirements of the North East Link Project EPBC Approval 2018/8142 conditions. It is not intended to be used for, and should not be relied on, for any other purpose.

Security Classification: **OFFICIAL: Sensitive**

| | | | |
|------------------------|-----------------------|------------------------------------------------|-------------|
| Project name | | North East Link Technical Advisor | |
| Document title | | MATTED FLAX-LILY 2024 ANNUAL COMPLIANCE REPORT | |
| Project number | | 3135006 | |
| Document number | | NEL-PW-GHD-9990-EEE-REP-0076 | |
| Revision | Release Status | Comment | Date |
| 0 | Final | Issued for Use | 28/05/2025 |
| | | | |

Refer to the relevant GHD Work Verification Record for detail on Designer/Author/Originator, Checker, Verifier and Approver.

GHD Pty Ltd | ABN 39 008 488 373

180 Lonsdale Street, Level 9

Melbourne, Victoria 3000, Australia

T +61 3 8687 8000 | **F** +61 3 8732 7046 | **E** melmail@ghd.com | **ghd.com**

© GHD 2025

This document is and shall remain the property of GHD. The document may only be used for the purpose for which it was commissioned and in accordance with the Terms of Engagement for the commission. Unauthorised use of this document in any form whatsoever is prohibited.

Security Classification: **OFFICIAL: Sensitive**



The Power of Commitment

Executive Summary

Introduction

The North East Link Program (NELP) received approval to remove up to 139 *Dianella amoena* (Matted Flax-lily, MFL) plants as part of the EPBC Act environmental approvals required prior to the construction of North East Link (NEL) ('the project'). A condition of the project's approval was the development of a MFL Salvage and Translocation Plan that would need to be endorsed by DEECA and implemented by the project.

The MFL Salvage and Translocation Plan outlined the requirement for a replacement ratio of 4:1 (four MFL to be planted for every one individual impacted or relocated). To date there have been 132 MFL plants impacted (salvaged) and there have been 528 plants cloned and/or propagated and translocated into Cherry Street Reserve and Gresswell Forest Nature Conservation Reserve in Macleod in August 2022 (Batch 1) and October of 2023 (Batch 2). No other MFL plants are proposed to be impacted for the project.

Annual compliance monitoring results

Overall, the project is on track to meet the benchmarks for success as described in the Matted Flax-lily Salvage and Translocation Plan and the EPBC 2018/8142 approval conditions.

This annual compliance report describes the results of the 2024 MFL monitoring program, combining the monitoring data for the 528 MFLs (Batch 1 and 2). In doing so, this report addresses the reporting requirements of the EPBC Act approval (EPBC 2018/8142) conditions and the requirements of the Matted Flax-lily Salvage and Translocation Plan (GHD 2022c) as required by the EPBC 2018/8142 approval.

The percentage target for MFL survivorship (85%) documented in the Salvage and Translocation Management Plan is based on the number of living individuals observed with above ground vegetative material during the monitoring. Of note, the 85% target doesn't distinguish between plants that are considered dormant (plants that haven't been identified during a monitoring round, but have been observed within the previous 12 months) and plants that are considered dead (haven't been recorded as having above ground vegetative material for a 12-month window).

At the end of the 2024 monitoring period, 28 of the Batch 1 MFLs were identified as dormant, and one was considered dead. This conservatively represents a current survivorship rate of 73% of the Batch 1 MFLs. The majority of the plants contributing to this result are newly dormant plants that have been observed during monitoring over the last 12 months. As such, it is recommended that the monitoring of these plants continues as planned during 2025, and that if these plants are not observed for a 12-month window and are subsequently classified as dead, recommendations may be put in place for supplementary translocation of additional MFL. Contingency measures are required to be initiated if survival drops below 85%, but this would be when the number of dead plants increases such that the number of dormant and living plants is less than 85% of the population. Continued monitoring will be important to understand whether the current high number of dormant plants is part of the seasonal fluctuation or indicative of long-term decline of the population.

At the end of the 2024 monitoring period for the Batch 2 MFLs, 393 MFL plants (94%) were alive and the translocated individuals have met the survivorship target. A number of the Batch 2 MFL were identified as dormant (27) and one plant was considered dead.

Based on findings of the annual 2024 monitoring the following maintenance and corrective actions have been proposed to address identified threats to the translocated MFLs. These actions include:

- Additional watering of MFLs during summer season to support plants in the driest time of the year
- In Cherry Street Reserve in the Batch 1 MFL plants conducting a controlled cool burn during autumn 2025 to manage overgrown grass, tree saplings and invasive plants
- Addressing areas with sunken soil around the base of translocated individuals
- Replacing missing and broken tags

Future monitoring

In 2025, biannual monitoring events for Batch 1 will take place in June and December. For Batch 2, quarterly monitoring will be conducted in March, June, and September, followed by the commencement of biannual monitoring in December 2025.

Additionally, annual monitoring of the six representative quadrats for both batches will be conducted in December 2025.

Future monitoring will continue to monitor the number of MFL's classified as dead to understand if replacement MFLs are required and whether the program is compliant with the Matted Flax-lily Salvage and Translocation Plan (GHD 2022c) and EPBC 18/8142 approval.

Abbreviations

| Abbreviations | |
|---------------|--------------------------------------------------------------------------------------|
| cm | Centimetre |
| DAWE | Department of Agriculture, Water and the Environment (now DCCEEW) |
| DCCEEW | Department of Climate Change, Environment, Energy and Water (formerly DOEE and DAWE) |
| DEECA | Department of Energy, Environment and Climate Action (formerly DELWP) |
| DELWP | Department of Environment, Land, Water and Planning (now DEECA) |
| DOEE | Department of Environment and Energy (now DCCEEW) |
| EES | Environment Effects Statement |
| EPBC Act | Commonwealth <i>Environment Protection and Biodiversity Conservation Act 1999</i> |
| EPR | Environmental Performance Requirement |
| EVC | Ecological vegetation class |
| FFG Act | <i>Flora and Fauna Guarantee Act 1988</i> |
| ha | Hectare |
| m | Metre |
| mm | millimetre |
| MFL | Matted Flax-lily |
| MNES | Matters of National Environmental Significance |
| NEL | North East Link (the 'project') |
| NELP | North East Link Program (the 'proponent') |
| PER | Public Environment Report |
| VBA | Victorian Biodiversity Atlas |
| VIDA | Victorian Infrastructure Delivery Authority |

Contents

| | |
|---------------------------------------------------------------------------------------------------------------|------------|
| Executive Summary | i |
| Abbreviations | iii |
| 1. Introduction | 1 |
| 1.1 Approval conditions | 1 |
| 1.2 Purpose of this report | 4 |
| 1.3 Scope and limitations | 4 |
| 2. Project Background: Translocation and management of Matted Flax-lily | 7 |
| 2.1 Performance benchmarks | 7 |
| 2.2 Recipient site locations | 7 |
| 2.2.1 Cherry Street Reserve site preparation | 8 |
| 2.2.2 Gresswell Forest Nature Conservation Reserve site preparation | 10 |
| 3. Method | 11 |
| 3.1 Monitoring program | 11 |
| 3.2 Monitoring data | 11 |
| 3.2.1 General condition data collected during each monitoring event | 11 |
| 3.2.2 Detailed condition data collected during annual quadrat monitoring | 13 |
| 3.3 Adaptive management | 13 |
| 3.4 Reporting | 14 |
| 4. Annual monitoring summary | 16 |
| 4.1 Climatic conditions | 16 |
| 4.1.1 Rainfall | 16 |
| 4.1.2 Temperature | 18 |
| 4.2 Batch 1- Annual monitoring summary | 20 |
| 4.2.1 Survivorship | 20 |
| 4.2.2 Maintenance | 24 |
| 4.2.3 Genetic diversity | 25 |
| 4.2.4 Threats | 26 |
| 4.2.5 Recommended additional maintenance | 26 |
| 4.2.6 Summary of results | 27 |
| 4.3 Batch 2- Annual monitoring summary | 28 |
| 4.3.1 Survivorship | 28 |
| 4.3.2 Maintenance | 30 |
| 4.3.3 Genetic diversity | 31 |
| 4.3.4 Threats | 31 |
| 4.3.5 Recommended additional maintenance | 32 |
| 4.3.6 Summary of results | 32 |
| 5. Assessment of translocation success against performance benchmarks | 34 |
| 6. Compliance with Environment Protection and Biodiversity Conservation (EPBC) Act approval conditions | 36 |
| 7. Conclusions | 41 |
| 7.1 Recommendations and next steps | 41 |
| 8. References | 42 |

Table index

| | | |
|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Table 1 | Timing of approved translocation and monitoring events for Batch 1 | 2 |
| Table 2 | Timing of approved translocation and monitoring events for Batch 2 | 3 |
| Table 3 | Overview of monitoring reporting requirements | 3 |
| Table 4 | Photo point latitude and longitude locations for each of the three translocation sites | 12 |
| Table 5 | Performance management and contingency planning | 14 |
| Table 6 | Monthly rainfall (mm) recorded from the Viewbank weather station from 2015-2025 | 17 |
| Table 7 | Average monthly maximum temperature (C) from 2015-2025 | 19 |
| Table 8 | Batch 1 Additional monitoring data collected on a subset of the population in December 2022 and January 2025 - 15 MFL plants | 24 |
| Table 9 | Maintenance actions planned and completed in Cherry Street Reserve for the translocated Matted Flax-lilies (MFL) in 2024 | 25 |
| Table 10 | The number of parent plants grouped by number of surviving clones from Batch 1 in January 2025 | 25 |
| Table 11 | Batch 1 MFL Monitoring data collected from Event 13 to Event 15 in Cherry Street Reserve Zone B | 27 |
| Table 12 | Batch 1 Monitoring data collected each year in December on a subset of the population in December 2022, 2023 and January 2025- 15 MFL plants | 27 |
| Table 13 | Batch 2 Additional monitoring data collected on a subset of the population in December 2023 and December 2024 & January 2025- 23 MFL plants | 30 |
| Table 14 | Maintenance actions planned and completed in Cherry Street Reserve for the translocated Matted Flax-lilies (MFL) in January – December 2024 | 30 |
| Table 15 | The number of parent plants grouped by number of surviving clones from Batch 2 in January 2025 | 31 |
| Table 16 | Batch 2 Monitoring data collected at each event from Event 6 January 2024 to Event 12 January 2025 | 33 |
| Table 17 | Batch 2 Monitoring data collected on a subset of the population in December 2023 and December 2024 & January 2025- 23 MFL plants | 33 |
| Table 18 | Translocation criteria for success of the Matted Flax-lily translocation program (adapted from the Salvage and Translocation Management Plan, GHD 2022c) | 34 |
| Table 19 | EPBC 2018/8142 Approval Conditions relevant to Matted Flax-lily plants | 37 |

Figure index

| | | |
|----------|---------------------------------------------------------------------------------------------------------------------|----|
| Figure 1 | Recipient sites for Matted Flax-lily plants, Gresswell Forest Nature Conservation Reserve and Cherry Street Reserve | 5 |
| Figure 2 | Cherry Street Reserve management zones | 9 |
| Figure 3 | Monthly rainfall (mm) recorded from Viewbank station from 2015-2025 | 16 |
| Figure 4 | Average monthly maximum temperature (C) from 2015-2025 | 18 |
| Figure 5 | Batch 1 MFL survivorship in Cherry Street Reserve Zone B between August 2022 (Event 1) to January 2025 (Event 15) | 21 |

| | | |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Figure 6 | Batch 1 MFL condition in Cherry Street Reserve Zone B between August 2022 (Event 1) to January 2025 (Event 15) | 23 |
| Figure 7 | Batch 1 MFL buds, flowering, and fruiting percentages in Cherry Street Reserve Zone B between August 2022 to January 2025 | 23 |
| Figure 8 | Batch 1 percentage of MFL plants impacted by herbivory in Cherry Street Reserve Zone B between August 2022 to January 2025 | 26 |
| Figure 9 | Batch 2 MFL survivorship in Cherry Street Reserve and Gresswell Forest Nature Conservation Reserve between October 2023 to January 2025 | 28 |
| Figure 10 | Batch 2 MFL condition in Cherry Street Reserve and Gresswell Forest Nature Conservation Reserve between October 2023 to January 2025 | 29 |
| Figure 11 | Batch 2 MFL buds, flowering and fruiting percentages Cherry Street Reserve and Gresswell Forest Nature Conservation Reserve between October 2023 to January 2025 | 29 |
| Figure 12 | The percentage of Batch 2 MFL plants impacted by herbivory percentages Cherry Street Reserve and Gresswell Forest Nature Conservation Reserve between October 2023 to January 2025 | 32 |

Appendices

| | |
|------------|------------------------------------------------------|
| Appendix A | Photo monitoring points |
| Appendix B | Representative photos of Matted Flax-lilies |
| Appendix C | Monitoring and Annual monitoring data (January 2025) |
| Appendix D | Matted Flax-lily genetic survival |

1. Introduction

The North East Link Program (NELP) is a division of the Victorian Infrastructure Delivery Authority (VIDA) and on behalf of the Victorian State Government, is currently undertaking the North East Link (NEL) Program (referred to herein as ‘the project’). The project is a new freeway-standard road connection to the north-east of the Melbourne Central Business District that would complete Melbourne’s ring road. Specifically, the project will connect the Metropolitan Ring Road (M80) to the Eastern Freeway and includes works along the Eastern Freeway from near Hoddle Street to Springvale Road.

The impacts to biodiversity values due to the project were determined through ecological impact assessments. These assessments informed the development of an Environment Effects Statement (EES) in accordance with the *Victorian Environment Effects Act 1978* and a Public Environment Report (PER) in accordance with the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). The ecological impact assessments identified the project has the potential to negatively impact *Dianella amoena* (Matted Flax-lily, MFL), which is classified as ‘Endangered’ under the Commonwealth *EPBC Act* and as ‘Critically endangered’ on the Victorian *Flora and Fauna Guarantee Act 1988* (FFG Act) threatened flora list.

The project received approval to remove (‘salvage’) up to 139 MFL individuals, subject to a range of approval conditions, including:

- The development of a Matted Flax-lily Salvage and Translocation Plan that would detail the requirements for salvage and storage of MFL
- Selection of suitable recipient sites
- Translocation, monitoring and reporting for a period of up to ten years

A total of 132 MFL individuals have been salvaged for the project to date, between April 2020 – October 2023, stored and cloned and/or propagated at Abzeco nursery. Based on the Matted Flax-lily Salvage and Translocation Plan (GHD 2022c), four clones of each salvaged MFL plant would need to be translocated to the recipient sites. Hence, a total of 528 MFLs have been translocated for the project, in two batches:

- Batch 1: In August 2022, 108 MFL plants were translocated to Cherry Street Reserve, Macleod (Zone B) (GHD 2022a; GHD2022b).
- Batch 2: In October 2023, 420 MFLs were translocated to Cherry Street Reserve (Zone A) and Gresswell Forest Nature Conservation Reserve, Macleod. Of the 420 Batch 2 MFLs, 50 were planted at Cherry Street Reserve (Zone A) while the remaining 370 were planted at Gresswell Forest Nature Conservation Reserve site (GHD 2024b).

The 528 MFL plants translocated in Batch 1 and 2 comprise the full set of plants subject to the MFL Salvage and Translocation Plan. No further salvage works are proposed for MFL for the project.

This report combines the results of the third year of annual monitoring for Batch 1 MFL plants (encompassing quarterly monitoring data collected from March and June 2024, and January 2025) and the second year of annual monitoring for Batch 2 MFL plants (encompassing the monthly monitoring data collected between January to April 2024 and quarterly data collected on June, September, and December 2024 and January 2025). The monitoring will continue to be undertaken biannually until June 2027 for Batch 1. For Batch 2, quarterly monitoring will continue until September 2025 and then biannually until at least winter 2028.

1.1 Approval conditions

The project is subject to approval conditions relating to impacts to Matters of National Environmental Significance (MNES).

The ministerial assessment of the EES included a number of recommendations relating to the Environmental Performance Requirements (EPR) for NELP. One EPR for the project addresses the potential impacts to MFL, EPR FF7, which states ‘Where direct impacts on Matted Flax-lily occur, a salvage and translocation plan must be developed and implemented to the satisfaction of the Department of Environment, Land, Water and Planning (now DEECA) and the Commonwealth Department of Environment and Energy (now DCCEEW), prior to the commencement of relevant works’. The Matted Flax-lily Salvage and Translocation Plan (GHD 2022c) has been endorsed by DEECA and DCCEEW, and this report is part of the implementation requirements of the plan.

Conditions 1, 2, 3 and 4 of the EPBC 2018/8142 approval allows for the project to remove up to 139 MFL individuals, and to salvage, propagate and translocate the impacted MFLs into an appropriate recipient site. Following translocation of any MFL individuals, NELP must also monitor the translocated MFLs on a weekly, monthly, quarterly and finally biannual basis for a period of at least five years. The results of the monitoring would be summarised in a series of reports submitted to the DCCEEW documenting the current progress of the translocation plan.

As the translocation of the two batches of MFL was staggered between August 2022 and October 2023, the subsequent monitoring schedule for MFL for the project are also staggered (Table 1 & Table 2). This Annual Compliance report consolidates the monitoring results for both Batch 1 (108 MFL) and Batch 2 (420 MFL) in 2024. MFL monitoring reports and timing of submissions are detailed in Table 3.

Table 1 *Timing of approved translocation and monitoring events for Batch 1*

| Year | Event | Expected date of event | Date Event completed |
|----------|------------------------------|------------------------|--------------------------|
| 0 | Translocation | N/A | April and September 2020 |
| 1 | Planting of salvaged MFL | August 2022 | 2 August 2022 |
| 1 | Event 1 – Weekly | August 2022 | 10 August 2022 |
| 1 | Event 2 - Weekly | August 2022 | 18 August 2022 |
| 1 | Event 3 - Weekly | August 2022 | 24 August 2022 |
| 1 | Event 4 - Weekly | August 2022 | 31 August 2022 |
| 1 | Event 5 - Monthly | September 2022 | 26 September 2022 |
| 1 | Event 6 - Monthly | October 2022 | 21 October 2022 |
| 1 | Event 7 – Monthly | November 2022 | 24 November 2022 |
| 1 | Event 8 – Monthly | December 2022 | 13 December 2022 |
| 1 | Event 9 - Quarterly | March 2023 | 30 March 2023 |
| 1 | Event 10 - Quarterly | June 2023 | 6 June 2023 |
| 2 | Event 11 - Quarterly | September 2023 | 26 September 2023 |
| 2 | Event 12 - Quarterly | December 2023 | 13 December 2023 |
| 2 | Event 13 - Quarterly | March 2024 | 21 March 2024 |
| 2 | Event 14 - Quarterly | June 2024 | 14 June 2024 |
| 3 | Event 15 - Biannually | December 2024 | 17 January 2025* |
| 3 | Event 16 - Biannually | June 2025 | |
| 4 | Event 17 - Biannually | December 2025 | |
| 4 | Event 18 - Biannually | June 2026 | |
| 5 | Event 19 - Biannually | December 2026 | |
| 5 | Event 20 - Biannually | June 2027 | |

*Originally scheduled in December 2024 but was delayed due to high fire danger warnings for the planned fieldwork dates, this fieldwork needed to be rescheduled to January 2025.

Table 2 *Timing of approved translocation and monitoring events for Batch 2*

| Year | Monitoring Event | Expected date of event | Date Event completed |
|----------|------------------------------|------------------------|-------------------------------------------------------------------------------------------------|
| 0 | Salvage of MFLs | N/A | August 2021 and October 2023 |
| 1 | Planting of salvaged MFL | October 2023 | 20 and 23 October 2023 |
| 1 | Event 1 – Weekly | November 2023 | 31 October 2023 |
| 1 | Event 2 - Weekly | November 2023 | 9 November 2023 |
| 1 | Event 3 - Weekly | November 2023 | 15 November 2023 |
| 1 | Event 4 - Weekly | November 2023 | 23 November 2023 |
| 1 | Event 5 - Monthly | December 2023 | 12 December 2023 |
| 1 | Event 6 - Monthly | January 2024 | 18 January 2024 |
| 1 | Event 7 – Monthly | February 2024 | 26 February 2024 |
| 1 | Event 8 – Monthly | March 2024 | 21 March 2024 |
| 1 | Event 9 - Monthly | April 2024 | 23 April 2024 |
| 1 | Event 10 - Quarterly | June 2024 | 14 June 2024 |
| 1 | Event 11 - Quarterly | September 2024 | 10 September 2024 |
| 2 | Event 12 - Quarterly | December 2024 | 12 December 2024 at Gresswell Forest 17 January 2025* at Cherry Street Reserve |
| 2 | Event 13 - Quarterly | March 2025 | - |
| 2 | Event 14 - Quarterly | June 2025 | - |
| 2 | Event 15 - Quarterly | September 2025 | - |
| 3 | Event 16 - Biannually | December 2025 | - |
| 3 | Event 17 - Biannually | June 2026 | - |
| 4 | Event 18 - Biannually | December 2026 | - |
| 4 | Event 19 - Biannually | June 2027 | - |
| 5 | Event 20 - Biannually | December 2027 | - |
| 5 | Event 21 - Biannually | June 2028 | - |

* Originally scheduled in December 2024 but was delayed due to high fire danger warning on the site for the planned fieldwork dates this fieldwork needed to be rescheduled to January 2025.

Table 3 *Overview of monitoring reporting requirements*

| Monitoring Report | Timing |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Baseline and first three-month monitoring report (Batch 1 only) | Completed – December 2022 (GHD 2022a) |
| Baseline and first three-month monitoring report (Batch 2 only) | Completed- May 2024 (GHD 2024b) |
| Annual reporting: Year 1-4 (Batch 1 and 2) | 2024, (completed on May 2024, [GHD 2024a]) 2025 (this report), 2026, 2027 |
| Annual report Year 5 (Batch 1) (including review of translocation against approved success criteria for the project and recommendations for the requirements for future monitoring and reporting). | December 2027 |
| Annual Report: Year 5 (Batch 2) (including review of translocation against approved success criteria for the project and recommendations for the requirements for future monitoring and reporting). | December 2028 |

This annual monitoring report is compliant with the conditions outlined in the project Matted Flax-lily Salvage and Translocation Plan (GHD 2022c). A review of the Matted Flax-lily translocation and monitoring program against the conditions outlined in the Matted Flax-lily Salvage and Translocation Plan is detailed in Section 4 of this report, and the project is on track to meet the benchmarks for success.

1.2 Purpose of this report

The purpose of this report is to demonstrate compliance with and address the reporting requirements of the EPBC Act approval (EPBC 2018/8142) conditions and the requirements of the Matted Flax-lily Salvage and Translocation Plan (GHD 2022c) as required by the EPBC 2018/8142 approval.

This monitoring report provides a description of the method, results, and an assessment of the health and condition of the MFLs associated with the monitoring program undertaken from January 2024 to January 2025. The assessment includes the 528 MFLs (Batch 1 and 2) that make up the translocated individuals for the project, following the translocation events at Cherry Street Reserve, Macleod and Gresswell Forest Nature Conservation Reserve, Macleod (the recipient sites; Figure 1a & Figure 1b) in August 2022 and October of 2023.

Recommendations for management and protection of the MFLs until the next monitoring event have also been provided (Section 7.1).

1.3 Scope and limitations

This report has been prepared by GHD for North East Link Program and may only be used and relied on by North East Link Program for the purpose agreed between GHD and North East Link Program as set out in section 1.2 of this report.

GHD otherwise disclaims responsibility to any person other than North East Link Program arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

GHD has prepared this report on the basis of information provided by NELP and others who provided information to GHD, which GHD has not independently verified or checked beyond the agreed scope of work. GHD does not accept liability in connection with such unverified information, including errors and omissions in the report which were caused by errors or omissions in that information.



Paper Size A3

0 5 10 20 30 40

Meters

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 55

N

Legend

- Gresswell Forest Reserve Translocation Site
- Batch 2 (Translocated October 2023)
- Annual Monitoring Quadrats
- Photo Monitoring Point
- Rabbit Warren

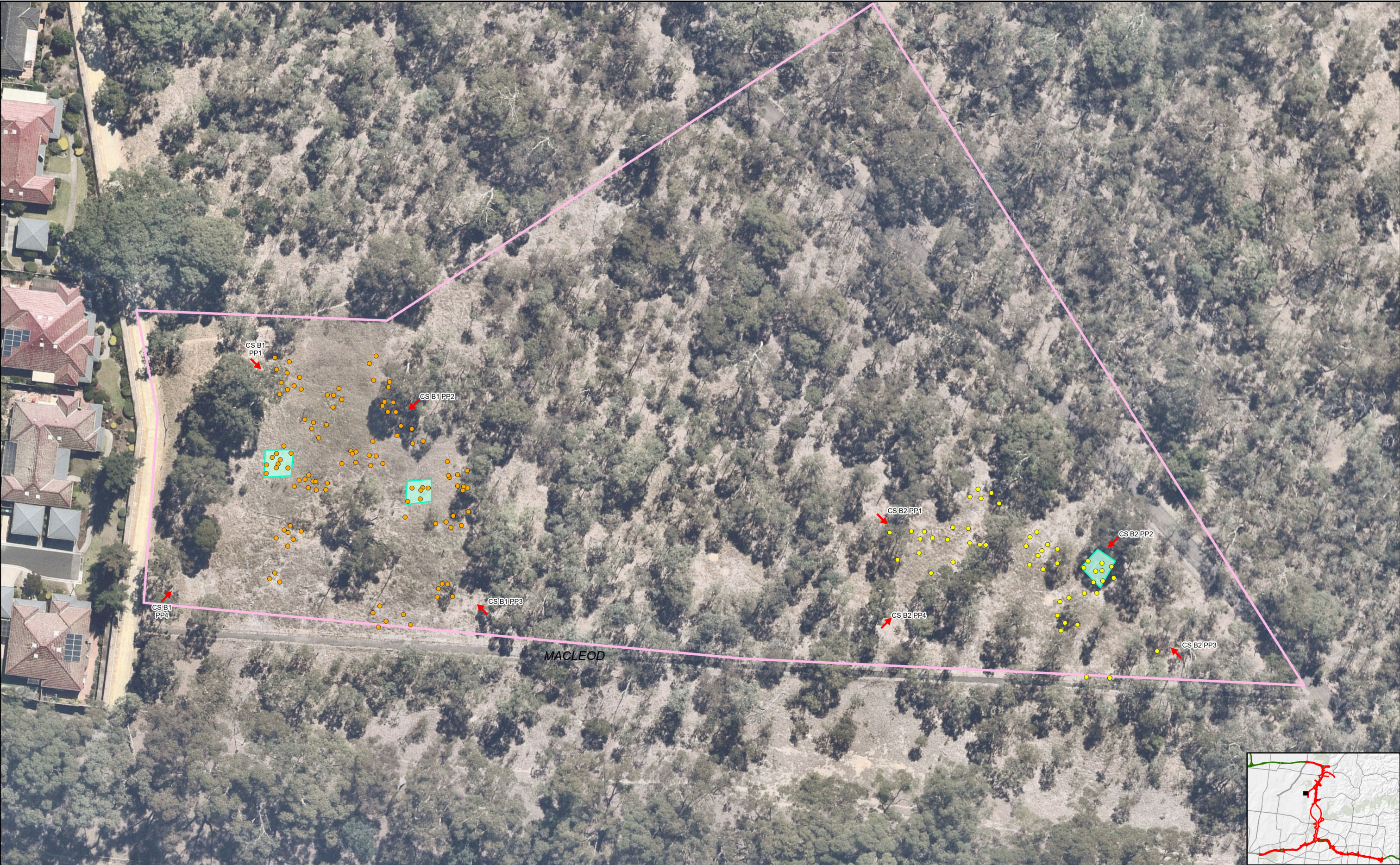
NORTH EAST LINK PROGRAM

North East Link Project

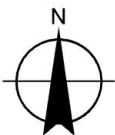
Date: 28 May 2025
Rev 0

Matted Flax-lily Recipient Sites
Gresswell Forest Reserve

Figure 1a



Paper Size A3
0 5 10 20
Meters
Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 55



- Legend**
- Cherry Street Reserve Translocation Site
 - Batch 1 (Translocated Aug 2022)
 - Batch 2 (Translocated October 2023)
 - Annual Monitoring Quadrats
 - Photo Monitoring Point



North East Link Project

Date: 28 May 2025
Rev 0

Matted Flax-lily Recipient Sites
Cherry Street Reserve

Figure 1b

Conditions of Use
This document has been developed for the purposes of the North East Link Project. Recipients of this document:
- are subject to obligations of confidentiality in relation to this document; and
- may not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice.

Security Classification: **OFFICIAL: Sensitive**
NEL-PW-GHD-9990-EEE-REP-0076 Revision 0
MATTED FLAX-LILY 2024 ANNUAL COMPLIANCE REPORT

180 Lonsdale Street, Melbourne VIC 3000 Australia T 61 3 8687 8000 E melmail@ghd.com W www.ghd.com
Data Sources: Nearmap - Imagery (Date extracted: 09/10/2023) | Cadastre, Roads, Planning Zones - Vicmap - 2021 | HELP data - 2022 Created by kgardner

2. Project Background: Translocation and management of Matted Flax-lily

2.1 Performance benchmarks

The objective of the Matted Flax-lily Salvage and Translocation Plan (GHD 2022c) is to ensure the genetic diversity of the species is conserved, and the population affected by the project is re-established into suitable habitat and managed for the survival and reproduction of this species. Performance criteria have been developed to aid assessment of the MFL translocation program's progress towards meeting this goal over the 10-year monitoring period. The following performance criteria are derived from Vallee *et al.* (2004) with adaptation to suit the circumstances of the current project and species to be translocated.

The performance criteria for the MFL translocation program are:

1. At least 85% of transplanted clones survive, including representatives from the range of genetic individuals salvaged
2. The translocated populations displayed similar growth, development and vigour as naturally occurring populations
3. Transplants survived to reproductive stage (producing flowers and fruit)
4. If plants did not survive to reproductive stage, then the plants will be replaced
5. Regeneration occurs in the translocated individuals (since the recruitment of MFL through seed is thought to be rare, the production of ramets at a rate similar to naturally occurring populations is considered sufficient to meet this criterion)
6. The number of individuals within the population was stable or had been increased by natural (including vegetative) recruitment
7. Adequate levels of genetic diversity were maintained

The number of surviving plants at the end of the 10-year monitoring program that are needed to meet the long-term success criteria of the translocation program would depend on the number of clones propagated and planted out. Condition and success of the clones would continue to be monitored for up to 10 years with the aim of achieving 85% survival of clones by the fifth year. If performance targets are met within five years, it is envisaged that a significantly reduced monitoring program could be implemented for the remaining five years. Should 85% survival not be achieved at the end of five years, contingency planning would be initiated.

Based on the current salvage of 132 MFL plants and the subsequent translocation of 528 propagated and/or cloned MFL plants (Batch 1 and Batch 2), the Matted Flax-lily Salvage and Translocation Plan would be considered a success at the five-year mark if survival of at least 449 plants, with representative clones from each 132 salvaged plants were achieved. Of the 449 plants survival target, approximately 357 plants should come from Batch 2 (85% of the 420 translocated Batch 2 MFLs) and approximately 92 plants should come from Batch 1 (85% of the 108 translocated Batch 1 MFLs).

2.2 Recipient site locations

The Cherry Street Reserve and Gresswell Forest Nature Conservation Reserve (both in Macleod, Victoria) were selected (from the possible locations specified in the Matted Flax-lily Salvage and Translocation Plan (GHD 2022c) through consultation with Darebin Council, DEECA and DCCEEW.

Within the Cherry Street Reserve, the MFL have been planted into a 1 hectare (ha) area in the southern end of the Reserve (Zone A and Zone B), which was selected with advice from the City of Darebin Biodiversity Officers (Figure 2).

Within the Gresswell Forest Nature Conservation Reserve, the MFLs have been planted into a 3.4 ha area in the northern end of the Reserve. This was selected with advice from the Parks Victoria officers who manage the site (Figure 1).

2.2.1 Cherry Street Reserve site preparation

To assist in preparations to translocate the MFL plants from the Abzeco nursery, the site at Cherry Street Reserve was divided into three management zones. The site is divided into Zones A, B and C (Figure 2) to enable management actions to be targeted to the specific conditions and ecological values in each zone. Abzeco are engaged to manage this site and have prepared a Cherry Street Reserve Site Schedule (Abzeco 2022) (approved by DEECA) to detail how the three zones would be managed over the life of the monitoring program. The schedule includes the tasks required to prepare the zones for the planting of MFLs.

A summary of the Site Schedules for Zones A, B and C are outlined below.

Zone A – Batch 2 MFL Planting Area

- Staged thinning of eucalypts Year 1 summer 2023-24 from mapped planting areas only. Trees were selected for retention. Regrowth will continue to be removed.
- Control of herbaceous and woody weeds – across entire zone.
- Hand weeding only in high quality patches with herbs/shrubs.
- Spot spraying with selective herbicide in exotic dominated areas.
- Handheld weed burners for use in areas away from lilies, orchids, herbs and shrubs.
- MFL planted in October 2023 were translocated in tussock gaps and avoided areas with herbs, lilies, and shrubs.

Zone B – Batch 1 MFL Planting Area

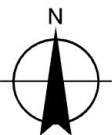
- Staged thinning of eucalypts completed in July 2022. Eucalypt regeneration will be managed.
- Control of herbaceous and woody weeds across entire zone.
- Hand weeding only in high quality areas with herbs/shrubs.
- Handheld weed burners in areas away from lilies, orchids, herbs, and shrubs.
- Spot spraying with selective herbicides in exotic dominated areas.
- MFL planted in August 2022 in tussock gaps avoiding areas with herbs, lilies, and shrubs.

Zone C – Fuel Management Zone

- Control of herbaceous and woody weeds across entire zone
- No MFL to be planted in this area
- Brushcut annually in January after seed set of the Kangaroo Grass (*Themeda triandra*)



Paper Size A3
0 10 20
Meters
Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 55



Legend
Cherry Street Reserve
Management zones

Batch 1 (translocated Aug 2022)
Batch 2 (translocated October 2023)



North East Link Project
Date: 28 May 2025
Rev 0

Management zones
Cherry Street Reserve

Figure 2

Conditions of Use
This document has been developed for the purposes of the North East Link Project. Recipients of this document:
- are subject to obligations of confidentiality in relation to this document; and
- may not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice.

Security Classification: **OFFICIAL: Sensitive**
NEL-PW-GHD-9990-EEE-REP-0076 Revision 0
MATTED FLAX-LILY 2024 ANNUAL COMPLIANCE REPORT

180 Lonsdale Street, Melbourne VIC 3000 Australia T 61 3 8687 8000 E melmail@ghd.com W www.ghd.com
Data Sources: Nearmap - Imagery (Date extracted: 09/10/2023) | Cadastre, Roads, Planning Zones - Vicmap - 2021 | NELP data - 2023 Created by:kgardner

2.2.2 Gresswell Forest Nature Conservation Reserve site preparation

To restore and maintain the Gresswell Forest Nature Conservation Reserve recipient site as a grassy woodland, the preparation focus was on woody weeds, exotic pasture grasses and ecological thinning of indigenous trees and shrubs.

Initial surveys of the site condition conducted in March 2023 identified a mix of exotic and non-indigenous species as the initial focus of management to prepare the site for translocation. Ecological thinning was conducted to reduce the overdominance of midstory vegetation that was outcompeting the native understory vegetation, therefore *Cassinia* species were targeted. All of the *Cassinia sifton* (Drooping Cassinia) was then removed and approximately half of the *Cassinia longifolia* (Shiny Cassinia) were removed. This resulted in a 10-15 m spacing between Eucalyptus trees and Cassinia in the translocation area.

An appropriate fire regime is also essential for controlling grasses, shrubs and saplings. In April 2023 the translocation site was subject to a controlled burn. This cleared space to encourage understory diversity and will increase the chance of survival for the MFLs.

3. Method

The method applied to monitor the MFL outlined below is in accordance with the Matted Flax-lily Salvage and Translocation Plan (GHD 2022c). As in all translocation programs conducted over a 10-year period, there are uncertainties that may impact the effectiveness of the translocation program, and unforeseen events that could impact the condition of the MFL. The Matted Flax-lily Salvage and Translocation Plan (GHD 2022c) allows for adaptive management to be put in place to allow practitioners to respond to unforeseen events. Amendments to the approved Plan would need to be developed in consultation with DEECA.

3.1 Monitoring program

The approved monitoring program stipulates that there would need to be more frequent monitoring, immediately following translocation to confirm the new transplants have established themselves at the recipient site. The monitoring could then occur less frequently once the plants are established (Table 1 and Table 2).

The program allows for monitoring to be conducted weekly for the first month after translocation, then monthly during the second through to the fifth month, and then quarterly visits over the first two-years (as detailed in Table 1 and Table 2). The monitoring would then be conducted on a six-monthly basis for up to five years. At the end of the five-year period, a review is proposed to tailor the management and monitoring program for the remaining five years.

It is expected that a reduced monitoring program would be implemented for Years 5-10. This schedule may be revised, with approval of DCCEEW and DEECA, depending on establishment rates and achievement of performance benchmarks. A final site assessment would be conducted at the end of the tenth year after the initial translocation event to confirm that performance benchmarks have been met.

3.2 Monitoring data

The monitoring at recipient sites involves collecting data against a range of parameters to assess the condition of the translocated MFL against the success criteria (as per the approved Matted Flax-lily Salvage and Translocation Management Plan, GHD 2022c). The monitoring has been undertaken or overseen by a qualified botanist approved by DEECA and in consultation with the land managers (e.g. Council biodiversity officer or the Parks Chief Ranger).

3.2.1 General condition data collected during each monitoring event

The following data is collected at each monitoring event:

- A population count of all translocated MFL plants
 - Alive: With green material above ground
 - Dormant: Plants found with no green material above ground
 - Dead: Plants that have been dormant for an entire 12-month period will be classified as dead
- Health status
 - Good: >70% leaves green
 - Moderate >30-<70% leaves green
 - Poor <30% leaves green
- Evidence of herbivory or pathogens
 - Yes/ No

- Presence of noxious weeds
 - % cover of all noxious weeds within 0.5 m radius of each MFL
 - Comments listing each noxious weed species
- Presence of flowers and/or fruits and height of inflorescence or infructescence
 - Buds: yes/no
 - Flowers: early/ mid/ late
 - Fruit: early/ mid/ late
- Threats to MFLs
 - Notes about any new conditions or factors that could negatively impact the MFLs
- Photos
 - Representative photos
 - A selection of photos from random MFLs
 - Photo point monitoring
 - Photos from each corner of the recipient sites in Cherry Street Reserve (Zone A and Zone B) and Gresswell Forest Nature Conservation Reserve (Figure 1; Table 4)
 - The photos are taken facing internally to show the reserves and translocation sites
 - Landscape format
- Overall site condition
 - Making a note of any new conditions or factors that could negatively impact the translocation site
 - Making a note of any conditions that need to be managed by the land managers
- Weather data
 - Using Bureau of Meteorology (BOM) Climate data rainfall and temperature minimums and maximums for the months between the current and previous monitoring period are compared to the 10-year average of those months

Table 4 Photo point latitude and longitude locations for each of the three translocation sites

| Photo point ID | Latitude | Longitude | Direction photo is taken |
|--------------------------------------------------------------------|--------------|--------------|--------------------------|
| Cherry Street Reserve (Zone B) Batch 1 points | | | |
| CS B1 PP1 | -37.7236053 | 145.0646674 | SE |
| CS B1 PP2 | -37.7236791 | 145.0649763 | SW |
| CS B1 PP3 | -37.7240056 | 145.0651116 | NW |
| CS B1 PP4 | -37.7239736 | 145.0644696 | NE |
| Cherry Street Reserve (Zone A) Batch 2 points | | | |
| CS B2 PP1 | -37.7238866 | 145.0659795 | SE |
| CS B2 PP2 | -37.7239332 | 145.0664418 | SW |
| CS B2 PP3 | -37.7241024 | 145.0665711 | NW |
| CS B2 PP4 | -37.7240429 | 145.0659842 | NE |
| Gresswell Forest Nature Conservation Reserve Batch 2 points | | | |
| GF B2 PP1 | -37.70900278 | 145.07252500 | SE |
| GF B2 PP2 | -37.70971389 | 145.07315000 | SW |
| GF B2 PP3 | -37.71142880 | 145.07221110 | NW |
| GF B2 PP4 | -37.71126944 | 145.07145389 | NE |

3.2.2 Detailed condition data collected during annual quadrat monitoring

To capture more detail on a subset of plants, six 25 m² quadrats have been established within the two translocation sites (Figure 1a-b). These quadrats have been distributed across each site in locations that are representative of the general conditions across the areas where MFL plants have been translocated. In December, the following data was captured for the MFL plants within these six quadrats as part of the annual monitoring program:

- MFL basal diameter, measured as the widest point between ramets
- No. of ramets
- Maximum leaf length
- Height of inflorescence or infructescence

These data will be collected every December when growth and inflorescence/infructescence numbers are expected to be highest.

The value of measuring the plant health can provide advance warning of potential issues for the translocation program. A small number of MFL plants in poor condition or dormant (i.e. no leaves) is not unusual for this species, especially at certain times of year. However, a large proportion of the plants in moderate or poor condition could indicate a change in condition of the site and that adaptive management is needed before the plants are beyond recovery. Details of the condition assessment and results from the monitoring event in December 2023 are shown in Table 5.

3.3 Adaptive management

The health and survival of the translocated plants will be monitored according to the methods described in Section 3.2, and if a large portion of the translocated population appears to be declining and/or translocation criteria are not being met, efforts will be made to identify the cause of the decline, and further adaptive management measures developed in consultation with DEECA. If the cause of any decline in condition was identified as being an aspect of the management of one or both of the recipient sites (such as insufficient watering or weed control), then modifications to site management will be evaluated and implemented as needed. In addition, if survival criteria were not being met, the number of clones in the nursery can be increased by creating further divisions of established nursery stock so that sufficient clones were available to replace losses. If contingency measures were implemented (at the end of the five-year monitoring period), the monitoring period would be extended for up to an additional five-year period.

The primary criteria for triggering replanting additional clones would be high levels of plant mortality at the recipient sites, based on the judgement of the project botanist. Plants in poor health and/or which are not sufficiently growing either in width or number of ramets should first be watered and monitored before being considered for replacement. Replacement would be considered if the plant has been dormant for an entire 12-month period, the plant has been watered in spring or summer (depending on weather conditions), and after the late summer/ autumn growing period where MFL typically put out new growth. If no new growth is observed then the plant should be considered for replacement.

As monitoring continues, a sufficient number of clones would be propagated and retained in the Abzeco nursery to replace any losses of the translocated plants at the recipient sites with the goal of 100 % genetic survivorship of salvaged material, i.e. at least one clone from each parent MFL plant becomes established. This is critical to the success of the monitoring program. Based on previous translocation programs, MFL can be successfully propagated in a nursery setting and a large number of clones can often be produced from a single parent plant.

3.4 Reporting

Following the baseline and the three months post translocation monitoring report (GHD 2024b), yearly reports for the program's lifetime (minimum of five and up to 10 years) will be prepared. As the translocation of MFL plants has occurred in two staggered batches, this report combines the results of the third year of annual monitoring for Batch 1 MFL plants (encompassing quarterly monitoring data collected from March and June 2024, and January 2025) and the second year of annual monitoring for Batch 2 MFL plants (encompassing the monthly monitoring data collected between January to April 2024 and quarterly data collected on June, September, and December 2024 and January 2025)(Table 5). The annual monitoring reports for both batches of translocated plants will henceforth be combined for the life of the monitoring program. Table 5 shows the survivorship for each batch of MFLs at each year and monitoring stage, with blank cells for stages that the program has not yet reached.

This annual monitoring report discusses the survivorship, condition and growth of the translocated MFL plants. It also includes information on conditions at the recipient site and the nursery, and an assessment of the status of the translocation program relative to the performance criteria. The report discusses known or potential threats, management issues and maintenance or corrective actions that have been undertaken or any that are proposed. The report includes rainfall and watering data, the tabulated results from each monitoring event and the photo monitoring taken from each established photo point.

A final report will be provided after the 10th year of monitoring and include an analysis of whether the translocation program has achieved the long-term performance criteria, or whether further management and monitoring is required. The final report would also include a summary of lessons learned and recommendations for future translocation programs.

Table 5 *Performance management and contingency planning*

| Monitoring stage | Standard to be achieved | Contingency | Batch 1 Outcome | Batch 2 Outcome |
|-----------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Pre-planting | 100% of salvage of pre-clearance plants Where achievable six clones to be created to replace salvaged plants. | If the six clones cannot initially be established, additional clones to be produced when plant mass is sufficient. Two clones maintained in nursery conditions | Compliant | Compliant |
| End of 1 st year | >85% survivorship | No additional measures and continue to monitor | 95% survival on the end of first year in June 2023 (Event 10 monitoring)- Standard was achieved | 97% survival on the end of first year in September 2024 (Event 11 monitoring)- Standard was achieved |
| | <85% survivorship | Replant up to 85% survivorship of four clones | | |
| End of 2 nd year | >85% survivorship | No additional measures and continue to monitor | 91% survival on the end of first year in June 2024 (Event 10 monitoring)- Standard was achieved | The latest monitoring on 12 December 2024 and 17 January 2025 (Event 12) was the start of 2 nd year. |
| | <85% survivorship | Replant up to 85% survivorship of four clones | | |
| End of 3 rd year | >85% survivorship | No additional measures and continue to monitor | The latest monitoring on 17 January 2025 (Event 15), the start of 3 rd year. | - |
| | <85% survivorship | Replant up to 85% survivorship of four clones | | |
| End of 4 th year | >85% survivorship | No additional measures and continue to monitor | - | - |
| | <85% survivorship | Replant up to 85% survivorship of four clones | | |

| Monitoring stage | Standard to be achieved | Contingency | Batch 1 Outcome | Batch 2 Outcome |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------|
| End of 5 th year | Achieved a performance target of at least 85% of clones surviving? If so the MFL Salvage and Translocation Plan is declared a success. | No contingency management is required. Amend monitoring program years 5-10. Actively manage sites to 'maintain' population through threat management. | - | - |
| Years 5-10 | If the performance target has not been met at the end of the 5-year period continue with replanting strategy for a further five years. | Review the existing strategy and explore options to improve success rates. Replant with 'insurance clones' as required to achieve performance target and monitor until performance target achieved. | - | - |

4. Annual monitoring summary

4.1 Climatic conditions

The climatic and rainfall information presented in this report is from the Viewbank weather station (approximately 4.2 km from the translocation sites), with data sourced from the Bureau of Meteorology Climate database (BOM 2025). The data presented spans the 10-year window from 2015-2024 has been assessed to help identify potential climatic drivers for any trends observed during the MFL monitoring and to inform management of the MFL populations (Batch 1 and Batch 2). This data will also assist in understanding whether climate conditions could be impacting the translocated MFL populations health and persistence.

4.1.1 Rainfall

Viewbank weather station has received 686.8 mm of rain in 2024, with an average yearly rainfall from 2015-2024 of 691.4 mm. Rainfall in the years 2020-2022 was significantly higher than preceding and following years (2020: 894.4 mm, 2021: 838.8mm, 2022: 868.8 mm). Recent data indicates a decline in early summer rainfall during the annual monitoring periods. December 2023 to January 2024 recorded 174.2 mm, while December 2024 to January 2025 dropped to 96.6 mm or 45% less rainfall (Figure 3 & Table 6). These rainfall data patterns are critical in understanding whether climate conditions are impacting the health and persistence of translocated MFL populations.

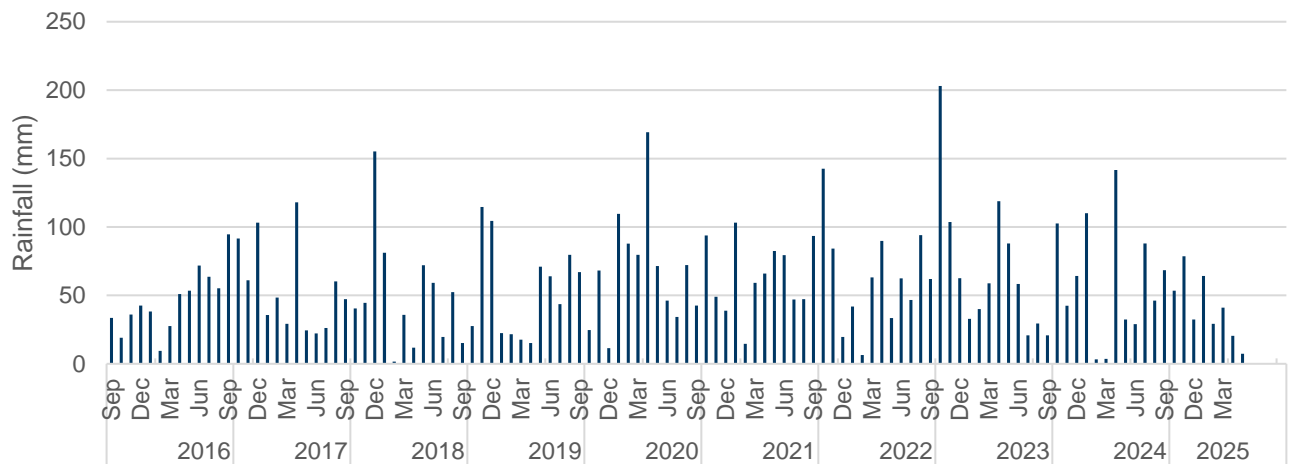


Figure 3 Monthly rainfall (mm) recorded from Viewbank station from 2015-2025

Table 6 *Monthly rainfall (mm) recorded from the Viewbank weather station from 2015-2025*

| Month | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Total | Average |
|---------|-------|------|------|-------|------|------|------|------|------|-------|-------|-------|-------|---------|
| 2015 | 30.8 | 43.8 | 28.6 | 44 | 46.6 | 35.2 | 68 | 46 | 33.6 | 19 | 36 | 42.6 | 474.2 | 39.5 |
| 2016 | 38.2 | 9.4 | 27.6 | 51 | 53.4 | 71.8 | 63.6 | 55.2 | 94.6 | 91.6 | 61 | 103.2 | 720.6 | 60.1 |
| 2017 | 35.6 | 48.4 | 29.2 | 118 | 24.4 | 22.2 | 26.2 | 60.2 | 47.2 | 40.4 | 44.6 | 155.2 | 651.6 | 54.3 |
| 2018 | 81.2 | 1.6 | 35.8 | 11.8 | 72 | 59.2 | 19.6 | 52.4 | 15.2 | 27.6 | 114.6 | 104.4 | 595.4 | 49.6 |
| 2019 | 22.4 | 21.6 | 17.6 | 15.2 | 71 | 64 | 43.6 | 79.6 | 67 | 24.6 | 68.2 | 11.4 | 506.2 | 42.2 |
| 2020 | 109.6 | 87.8 | 79.6 | 169.2 | 71.4 | 46.2 | 34.2 | 72.2 | 42.6 | 93.8 | 49 | 38.8 | 894.4 | 74.5 |
| 2021 | 103.2 | 14.6 | 59.2 | 66 | 82.4 | 79.4 | 47 | 47.2 | 93.4 | 142.6 | 84.2 | 19.6 | 838.8 | 69.9 |
| 2022 | 41.8 | 6.4 | 63.2 | 89.8 | 33.4 | 62.4 | 46.6 | 94 | 62 | 203 | 103.6 | 62.6 | 868.8 | 72.4 |
| 2023 | 32.8 | 40 | 58.8 | 118.8 | 88 | 58.4 | 20.8 | 29.4 | 20.8 | 102.6 | 42.4 | 64.2 | 677 | 56.4 |
| 2024 | 110 | 3.2 | 3.6 | 141.6 | 32.4 | 29 | 88 | 46.2 | 68.4 | 53.4 | 78.6 | 32.4 | 686.8 | 57.2 |
| 2025 | 64.2 | | | | | | | | | | | | | |
| Average | 60.9 | 27.7 | 40.3 | 82.5 | 57.5 | 52.8 | 45.8 | 58.2 | 54.5 | 79.9 | 68.2 | 63.4 | 691.4 | |

4.1.2 Temperature

Temperature data from Viewbank indicates an average maximum of 21.03°C from 2015 to 2025, with the hottest average maximum temperature of 21.6°C recorded in 2019 and 2024 (Figure 4 & Table 7). Since 2020, the average maximum temperature has shown a consistent increase from 20.2°C in 2020 to 21.6°C in 2024. Recent early summer monitoring periods show an increase in average monthly maximum temperatures, with December 2023 and January 2024 recording 25.4°C and 27.2°C, respectively, while December 2024 and January 2025 rose to 28.4°C and 29.4°C, respectively. These temperature and rainfall data patterns are critical in understanding whether climate conditions are impacting the health and persistence of translocated MFL populations.

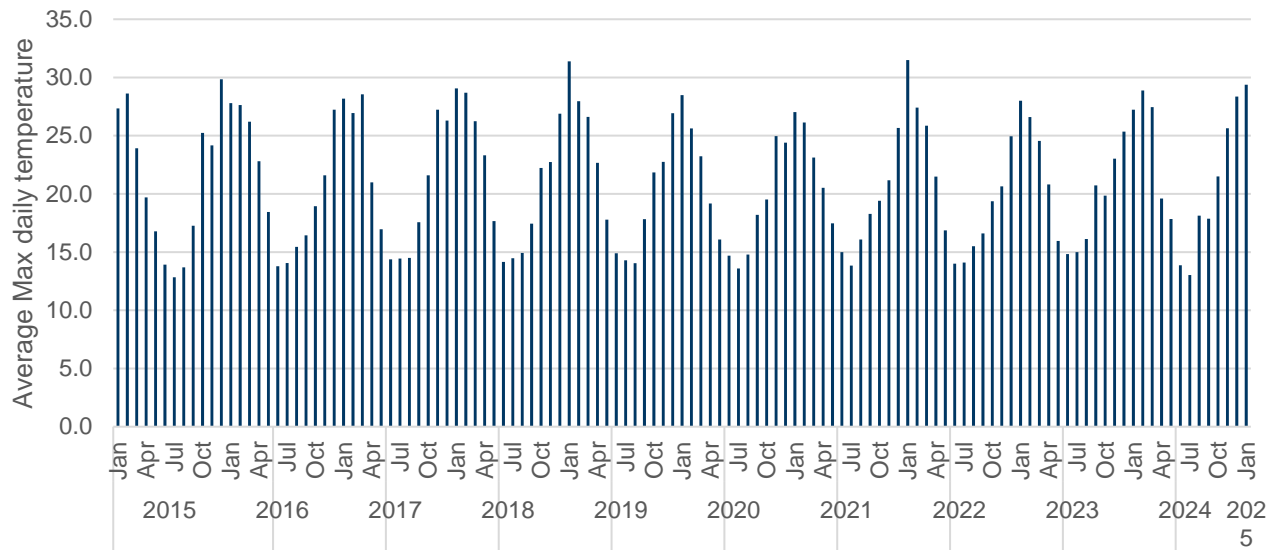


Figure 4 *Average monthly maximum temperature (C) from 2015-2025*

Table 7 *Average monthly maximum temperature (C) from 2015-2025*

| Month | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Average |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|---------|
| 2015 | 27.3 | 28.6 | 23.9 | 19.7 | 16.8 | 13.9 | 12.8 | 13.7 | 17.3 | 25.2 | 24.2 | 29.8 | 21.1 |
| 2016 | 27.8 | 27.6 | 26.2 | 22.8 | 18.4 | 13.8 | 14.1 | 15.4 | 16.4 | 18.9 | 21.6 | 27.2 | 20.9 |
| 2017 | 28.2 | 26.9 | 28.6 | 21.0 | 17.0 | 14.4 | 14.4 | 14.5 | 17.6 | 21.6 | 27.2 | 26.3 | 21.5 |
| 2018 | 29.1 | 28.7 | 26.2 | 23.3 | 17.7 | 14.2 | 14.5 | 14.9 | 17.4 | 22.2 | 22.7 | 26.9 | 21.5 |
| 2019 | 31.4 | 28.0 | 26.6 | 22.7 | 17.8 | 14.9 | 14.3 | 14.0 | 17.8 | 21.8 | 22.8 | 26.9 | 21.6 |
| 2020 | 28.5 | 25.6 | 23.2 | 19.2 | 16.1 | 14.7 | 13.6 | 14.8 | 18.2 | 19.5 | 25.0 | 24.4 | 20.2 |
| 2021 | 27.0 | 26.1 | 23.1 | 20.5 | 17.5 | 15.0 | 13.8 | 16.1 | 18.3 | 19.4 | 21.2 | 25.7 | 20.3 |
| 2022 | 31.5 | 27.4 | 25.9 | 21.5 | 16.9 | 14.0 | 14.1 | 15.5 | 16.6 | 19.4 | 20.6 | 24.9 | 20.7 |
| 2023 | 28.0 | 26.6 | 24.5 | 20.8 | 16.0 | 14.8 | 15.0 | 16.1 | 20.7 | 19.8 | 23.0 | 25.4 | 20.9 |
| 2024 | 27.2 | 28.9 | 27.4 | 19.6 | 17.8 | 13.9 | 13.0 | 18.1 | 17.9 | 21.5 | 25.6 | 28.4 | 21.6 |
| 2025 | 29.4 | - | - | - | - | - | - | - | - | - | - | - | - |
| Average | 28.7 | 27.4 | 25.6 | 21.1 | 17.2 | 14.4 | 14.0 | 15.3 | 17.8 | 20.9 | 23.4 | 26.6 | - |

4.2 Batch 1- Annual monitoring summary

4.2.1 Survivorship

Figure 5 shows the survivorship of the Batch 1 MFL plants from their translocation (10 August 2022) to the latest monitoring on 17 January 2025. The intervals between data points varies from weekly in the initial month, up to 6 months between the last two data points. The total number of plants recorded as alive has steadily decreased since the initial translocation, however there are visually significant decreases in March 2023, March 2024 and January 2025.

The percentage target for MFL survivorship (85%) documented in the Salvage and Translocation Management Plan doesn't distinguish between plants that are considered dead (haven't been recorded as having above ground vegetative material for a 12 month window) and plants that are dormant (plants that haven't been identified during a monitoring round, but have been observed within the previous 12 months), and the 85% target is based on the number of live individuals observed with above ground vegetative material during the monitoring.

At the end of the 2024 monitoring period, 28 out of 108 of the Batch 1 MFLs were identified as dormant, and one was considered dead. It is considered likely that the increase in the number of dormant plants in the Batch 1 MFLs has resulted from the drier conditions observed in the lead up to the annual monitoring.

This conservatively represents a current survivorship rate of 73% of the Batch 1 MFLs. The majority of the plants contributing to this result are newly dormant plants that have been observed during monitoring over the last 12 months. As such, it is recommended that the monitoring of these plants continues as planned during June 2025, and that if these plants are not observed for a 12-month window and are subsequently classified as dead, recommendations may be put in place for supplementary translocation of additional MFL.

Figure 5 illustrates the trends over time, showing a decline in the number of live plants (from 96 in March 2024 to 79 in January 2025) and a concurrent increase in dormant plants. This highlights the need for ongoing monitoring to differentiate between seasonal dormancy and permanent loss.

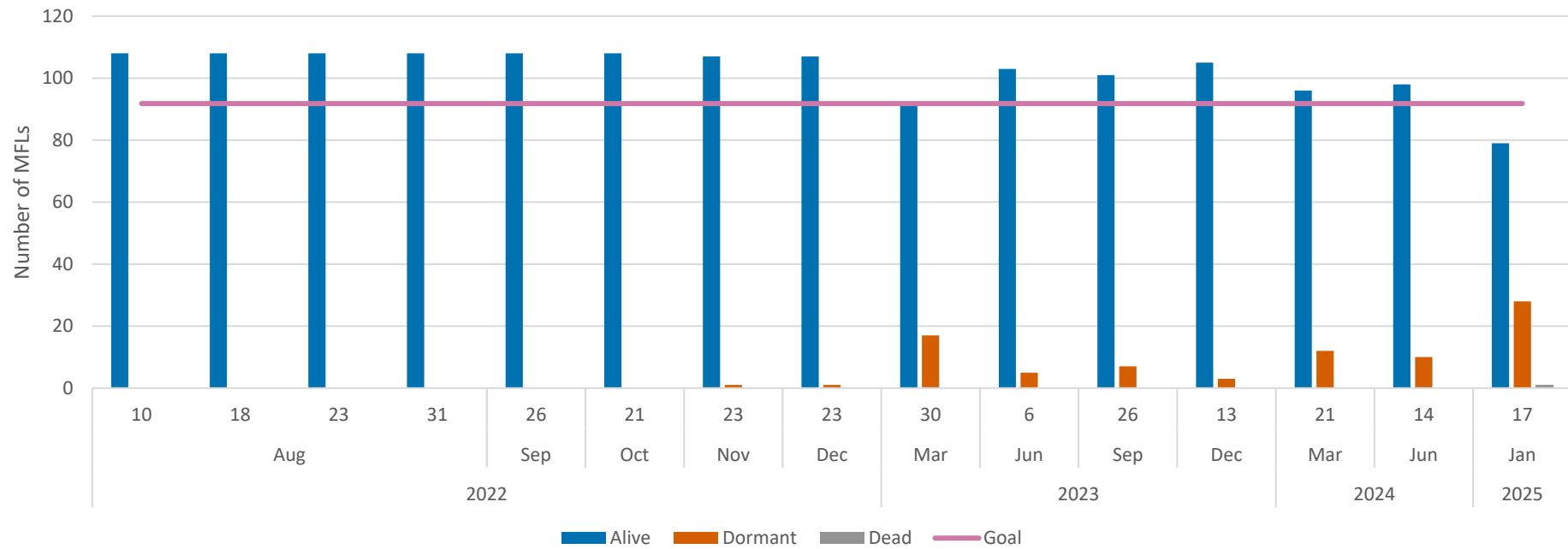


Figure 5 Batch 1 MFL survivorship in Cherry Street Reserve Zone B between August 2022 (Event 1) to January 2025 (Event 15)

Figure 6 shows the number of MFLs in good, moderate, and poor health as well as the number of plants assessed as dormant from the initial translocation (10 August 2022) to the most recent monitoring event 17 January 2025.

The health condition of MFL plants has fluctuated during the monitoring period in 2024 and early 2025 (Figure 6). During Event 13 (21 March 2024), only 29% of MFL plants were classified as being in good health (>70% green leaves). Over the following three months, there was a significant improvement, with 76% of plants in good health during Event 14 (14 June 2024). However, this proportion decreased to 44% by Event 15 (17 January 2025).

Similarly, the proportion of plants in poor condition (<30% green leaves) has fluctuated throughout the year but there has been an overall decrease in the number of plants in poor condition. The percentage of plants in poor condition reduced to 5% in June 2024 (Event 14), likely due to the improved vegetative growth response resulting from the higher rainfall when compared to the rainfall in the lead up to monitoring Events 13 and 15.

This trend of a higher proportion of plants in good health from Autumn to Spring and then decreasing over summer can be seen in the data since the beginning of the translocation program. Continued monitoring will be important to understand whether the current high number of dormant plants is part of the seasonal fluctuation or indicative of long-term decline of the population.

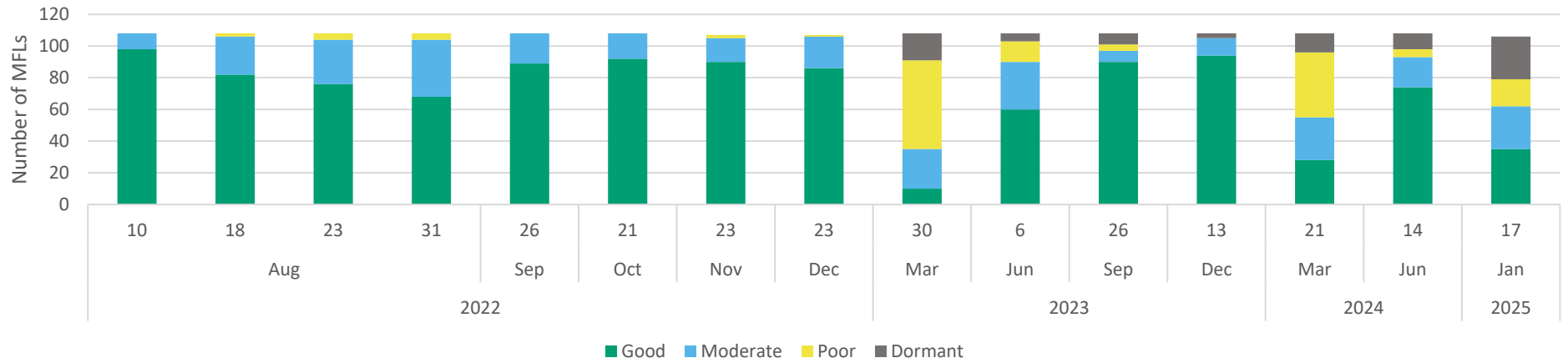


Figure 6 Batch 1 MFL condition in Cherry Street Reserve Zone B between August 2022 (Event 1) to January 2025 (Event 15)

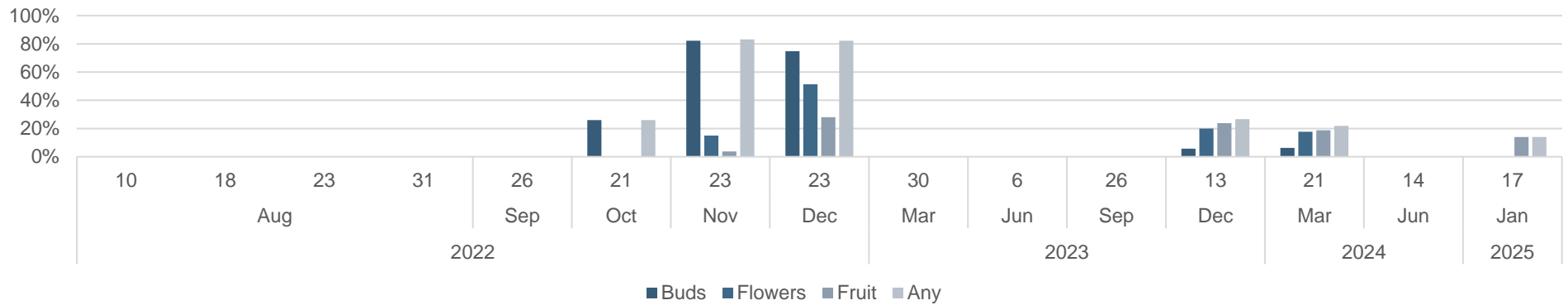


Figure 7 Batch 1 MFL buds, flowering, and fruiting percentages in Cherry Street Reserve Zone B between August 2022 to January 2025

Figure 7 presents the percentage of MFL plants with reproductive material observed and the percentage of plants with any reproductive material across Events 1 to 15. The presence of reproductive material on plants, particularly during the expected reproductive season (November to February), is a positive indicator for the health MFL individuals.

The number of MFL plants exhibiting reproductive material has decreased each flowering season (November – February) season since their translocation. The peak was in November 2022, shortly after translocation with 83% of MFL plants showing some reproductive material. In January 2025 only 14% of plants had some reproductive material. It is possible that the slightly later survey timing for the most recent round of monitoring (with monitoring undertaken in January 2025 instead of December 2024) has contributed to the decline, but the most significant decrease in the number of individuals exhibiting reproductive material occurred between the December 2023 and December 2024 monitoring events.

It is possible that the optimised growing conditions for MFL plants in the nursery prior to translocation resulted in the translocated individuals exhibiting a higher initial rate of presence of reproductive material over the first summer monitoring period, when compared to the results over the ensuing summer windows years where localised climatic variables have been more readily able to impact the condition and growth or translocated individuals.

Quadrat monitoring was conducted in December 2022, December 2023, and January 2025 to assess additional characteristics of MFL plants, as summarised in Table 8. The average basal diameter of the plants increased over the monitoring events, from 15.1 cm in December 2022 to 18.4 cm in January 2025. This increase suggests that new ramets are emerging from the original translocated plants, indicating successful establishment of the MFL population in the area.

Conversely, average leaf height and the number of ramets decreased during this period. Average leaf height declined from 36.8 cm in December 2022 to 26.3 cm in January 2025, and the average number of ramets reduced from 14 to 4. The observed declines in vegetative growth could be attributed to the drier conditions experienced during the latest monitoring period. Weather data (Figure 7) indicates higher average temperatures (both maximum and minimum), lower total rainfall, and fewer days with rainfall >1 mm from December 2022 to December 2024. Such conditions are likely responsible for the drying of leaves and reduced production of new ramets observed in the most recent monitoring.

However, this is not a cause for immediate concern. More rainfall was recorded in January 2025, and improved conditions in the coming months could support the growth of new leaves and ramets. This trend will be monitored in subsequent assessments to evaluate the plants' recovery and overall health.

Table 8 *Batch 1 Additional monitoring data collected on a subset of the population in December 2022 and January 2025 - 15 MFL plants*

| Annual monitoring data collected December 2022, December 2023, and January 2025 – 15 MFL plants | | | |
|-------------------------------------------------------------------------------------------------|-------------------------|--------------------------|----------------------------|
| Monitoring event | Event 8 – December 2022 | Event 12 – December 2023 | Event 15 – 17 January 2025 |
| Average leaf height (cm) | 36.8 | 28.0 | 26.3 |
| Average Basal diameter (cm) | 15.1 | 14.5 | 18.4 |
| Average no. of ramets | 14 | 7.2 | 4 |

4.2.2 Maintenance

The Cherry Street Reserve has been sprayed for broadleaf and grassy weeds and hand weeding around the MFL plants has been undertaken (Table 9). This will assist with the establishment of plants and enable them to put on biomass, enabling plants to compete with the grass and weeds in the Reserve. This is part of the planned maintenance, and the current schedule is sufficient at this time.

The maintenance and corrective actions specified in Table 9 have taken place during the monitoring program between January – December 2024.

Table 9 *Maintenance actions planned and completed in Cherry Street Reserve for the translocated Matted Flax-lilies (MFL) in 2024*

| Action | Timing | Outcome |
|------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Weed control – Annual non-native grasses | June, July, August and September 2024 | Reduced annual non-native grass weed load across the year. |
| Weed control – Broadleaf weed treatment | November 2024 | Reduced broadleaf weed load across the year. |
| Weed control – Plantago treatment | February, May and June 2024 | Reduction in the cover of Plantago in the Reserve. |
| Hand weeding of MFL plants | February 2024 | More space around the MFL plants. |
| Weed control – spot spraying | June, September and November 2024 | Reduction in the instances of other weeds in the Reserve. |
| Watering MFLs | Twice in February 2024 | Application of water to the MFLs at a time when the monthly rainfall was 3.2 mm. This value is lower than the mean for February, 41.5 mm. |

4.2.3 Genetic diversity

At Cherry Street Reserve, 100% of the parent plants are represented by living clones. As of Event 15 monitoring on 17 January 2025, only one clone, from MFL parent number 24, was confirmed dead or not observed in the last 12 months.

Table 10 shows the number of parents plants with either one, two, three or four living clones. There are four parent plants where only one clone is recorded as alive as of January 2025 (Table 10). Appendix D detailed the number of living clones for each parent plant. Most of these clones were recorded as alive in June 2024, so it is likely these individuals are currently dormant, not dead. It is possible that individuals that were recorded as dormant in the most recent monitoring event are alive and were not observed either as a result of the dry conditions at the site at the time of monitoring which can result in withered vegetative material that is less visible. Additionally, surrounding biomass growth can make it very difficult to find certain individuals.

At this stage there is no replanting of MFLs recommended due to the following reasons:

- The dead plant (24-003) has one dormant and two living siblings, so the loss of this individual has not reduced the overall genetic diversity of the translocated MFLs.
- Based on the survivorship target of 85% MFL plants alive, the salvage and translocation monitoring program is still on track.

The need for any future supplementary MFL planting for Batch 1 will be reassessed after each monitoring event so that if any replanting is required it can be done as soon as possible. There are two clones for each parent plant available in a nursery managed by Abzeco, if any MFL need to be replaced.

If all clones of a parent plant in the translocated population were to die, new clones (from the original parent plant) stored at the Abzeco nursery would need to be planted to maintain the genetic diversity of the translocated population. Monitoring of any newly planted MFLs would be required, and the monitoring schedule and timelines for any newly translocated individuals would need to follow the method prescribed in the approved Matted Flax-lily Salvage and Translocation Management Plan (GHD 2022c).

Table 10 *The number of parent plants grouped by number of surviving clones from Batch 1 in January 2025*

| Number of clones alive | Number of parent plants |
|------------------------|-------------------------|
| 1 | 4 |
| 2 | 4 |
| 3 | 9 |
| 4 | 10 |

4.2.4 Threats

4.2.4.1 Biomass

During the latest monitoring event at Cherry Street Reserve Zone B, a dense biomass of native and non-native grasses, along with saplings of *Eucalyptus* sp., was recorded growing around the translocated MFL. These grasses and saplings compete with the MFL for light, nutrients, and moisture. Additionally, the thick grass cover makes it difficult to locate some MFL plants, as some MFLs were completely overshadowed or reduced in size, potentially suffering from competition with the surrounding vegetation. (Appendix C, Table C2).

4.2.4.2 Herbivory and pathogens

Event 15 (17 January 2025) recorded herbivory on 19% of MFL plants (Figure 8). Although herbivory was recorded in 2024, this is still considered minor and not a threatening case to the target survival. This will be monitored over the life of the program in case conditions change.

There was no evidence of any pathogens impacting on the MFL plants.

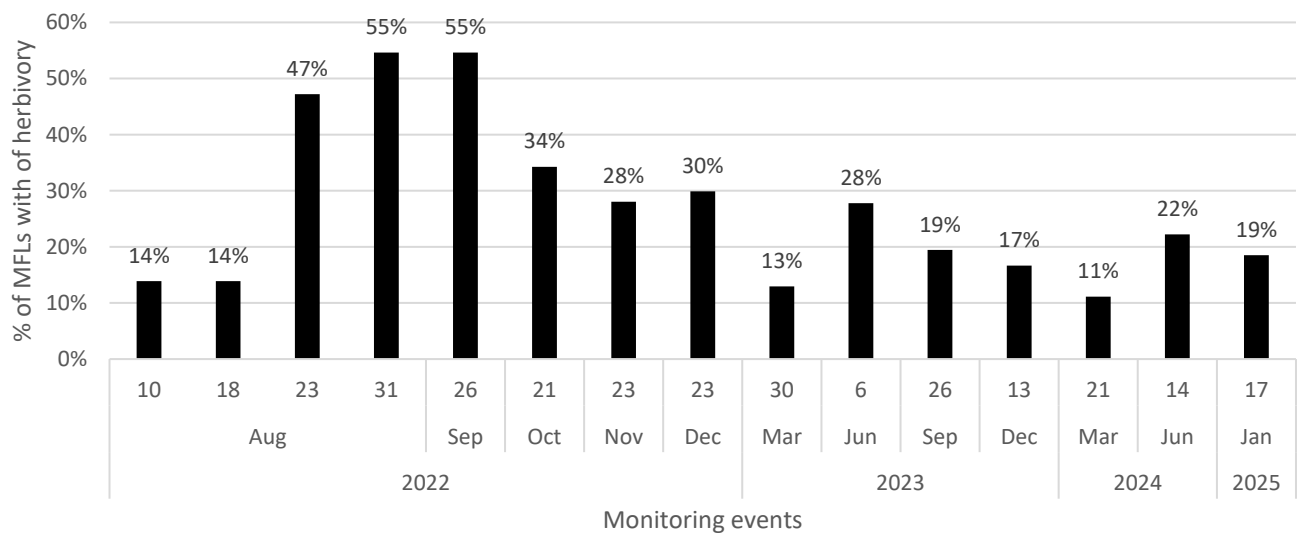


Figure 8 Batch 1 percentage of MFL plants impacted by herbivory in Cherry Street Reserve Zone B between August 2022 to January 2025

4.2.5 Recommended additional maintenance

The following actions are recommended for the maintenance of the Batch 1 MFL plants:

- Control burning during autumn (cool burn) of overgrown grass and tree saplings in the Cherry Street Reserve is recommended to give these plants a better chance of resprouting, growing larger and establishing more securely.
 - A cool burn is a moderate intensity grassland burn that aims to burn approximately 90% of the near surface fuel which will increase habitat values and aid weed control (Abzeco 2025).
- Watering of MFLs during summer season is also recommended to support plant survival during this period. Any additional watering will be done on an as needs basis under the guidance of Abzeco.

These recommendations have been discussed with Abzeco as part of the monthly meetings between NELP and Abzeco. Reporting on the implementation of these recommendations, and any resulting changes, will be incorporated in the Annual Matted Flax-lily 2025 Annual Compliance Report (due to be published in 2026).

4.2.6 Summary of results

Overall, the Batch 1 MFL translocation program is considered to be below the target 85% survival for this annual monitoring. Monitoring found 73% (79 plants) of MFL have been observed to have survived within the March 2024 to January 2025 timeframe. However, of the 29 plants not found alive, only one is considered dead. Based on results found over the last 12-month periods, it is likely that many of the others that are dormant will return once the conditions improve and the plants regrow from their root stock.

Table 11 summarises the December monitoring data and the January 2024 to January 2025 monitoring of MFL Batch 1. The annual monitoring data shown in Table 12 are collected in December of each year of the monitoring program to gain a deeper understanding of the condition of the translocated MFL plants.

Table 11 *Batch 1 MFL Monitoring data collected from Event 13 to Event 15 in Cherry Street Reserve Zone B*

| | 2022 Monitoring | 2023 Monitoring | 2024 Monitoring | | |
|----------------------------------------------------------------|-----------------------------|------------------------------|------------------------|------------------------|------------------------|
| Data collected during monitoring events | Event 8 23 December 2022 | Event 12 13 December 2023 | Event 13 21/03/2024 | Event 14 14/06/2024 | Event 15 17/01/2025 |
| Living plants (no.) | 107 | 105 | 96 | 98 | 79 |
| Dormant/dead/not found plants (no.) | 0 | 3 | 12 | 10 | 29 |
| % of plants with >70% of healthy leaves (good condition) | 80% | 90% | 29% | 76% | 44% |
| % of plants with 30<70% of healthy leaves (moderate condition) | 19% | 10% | 28% | 19% | 34% |
| % of plants with <30% of healthy leaves (poor condition) | 1% | 0% | 43% | 5% | 22% |
| Proportion of plants with flowering / fruiting present | 82% | 27% | 22% | 0% | 14% |
| Noxious weeds present (within 0.5 m radius) % | 0% | 0% | 0% | 0% | 0% |
| Herbivory present (%) | 30% | 17% | 11% | 22% | 19% |

Table 12 *Batch 1 Monitoring data collected each year in December on a subset of the population in December 2022, 2023 and January 2025- 15 MFL plants*

| Annual monitoring data collected – 15 MFL plants | December 2022 | December 2023 | January 2025 |
|---------------------------------------------------------------|---------------|---------------|--------------|
| Average leaf height (cm) | 36.8 | 28.0 | 26.3 |
| Average Basal diameter (cm) | 15.1 | 14.5 | 18.4 |
| Average no. of ramets | 14.0 | 7.2 | 4.0 |
| Programmed maintenance undertaken satisfactorily | Yes | Yes | Yes |
| Previous additional maintenance/ adaptive measures undertaken | Yes | Yes | Yes |
| Additional maintenance required | Yes | Yes | Yes |

4.3 Batch 2- Annual monitoring summary

4.3.1 Survivorship

Figure 9 shows the survivorship of the Batch 2 MFL plants from their translocation (31 October 2023) to the latest monitoring on the 17 January 2025. The intervals between data points varies from weekly in the initial month, up to four months between the last two data points in accordance with the MFL Salvage and Translocation Plan. The total number of plants recorded as alive has stayed steady with dips in late summer (March 2021, April 2023 and January 2025).

At the end of the 2024 monitoring period for the Batch 2 MFLs, 393 MFL plants (94%) were alive, and the translocated individuals have met the survivorship target. A number of the Batch 2 MFLs were identified as dormant (27) and one plant was considered dead (Figure 9; Appendix C). Based on BOM 2025 data (Section 4.1), lower rainfall and higher average maximum temperatures were recorded in early summer of 2024–2025 compared to the previous year during the annual monitoring period, which may have contributed to the increase in the number of dormant MFLs observed during the most recent monitoring event.

One plant (MFL 39-003) has not been observed since November 2023 and has been classified as dead. It is not recommended to replace this plant at this stage in the translocation program because this plant still has two clones (39-001 and 39-002) that were recorded as alive in January 2025. MFL Plant 39-004 was recorded as alive in June 2024, and as such has been considered dormant rather than dead during the latest monitoring event.

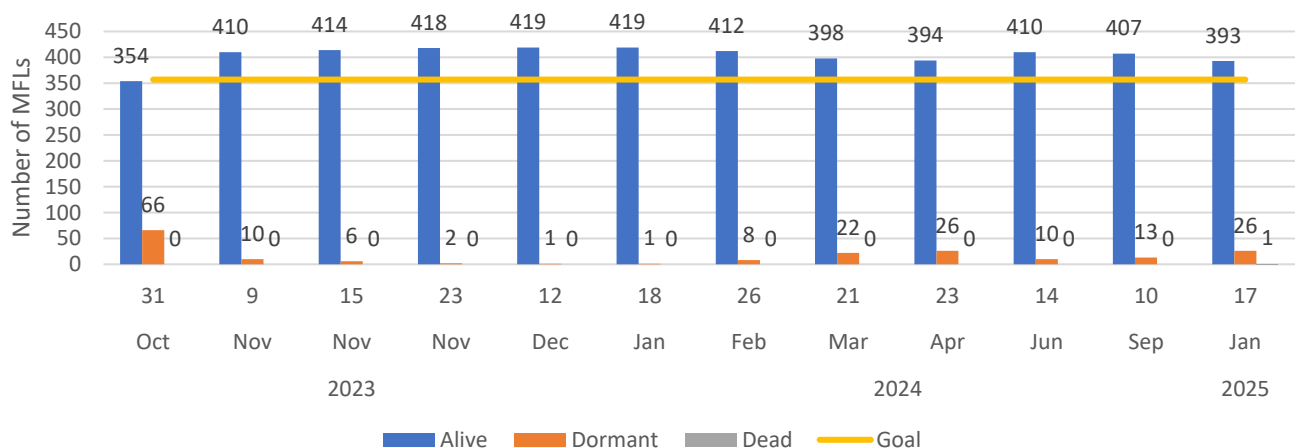


Figure 9 Batch 2 MFL survivorship in Cherry Street Reserve and Gresswell Forest Nature Conservation Reserve between October 2023 to January 2025

The health of the Batch 2 MFL plants from the start of the translocation program until January 2025 is presented in Figure 10. The number of plants with good health peaked during the spring of 2024 at 392 plants. On 17 January 2025, 341 of the Batch 2 MFLs were still in good condition.

The number of plants in poor condition has remained low, with only 10 on Event 12 (17 January 2025), the most recent Batch 2 MFL data of this report.

The stress experienced during summer may have taken time to manifest, causing the plant condition to decline from February to April 2024. However, following increased rainfall starting in June 2024, the plants were able to settle into the reserves and their condition had improved since then.

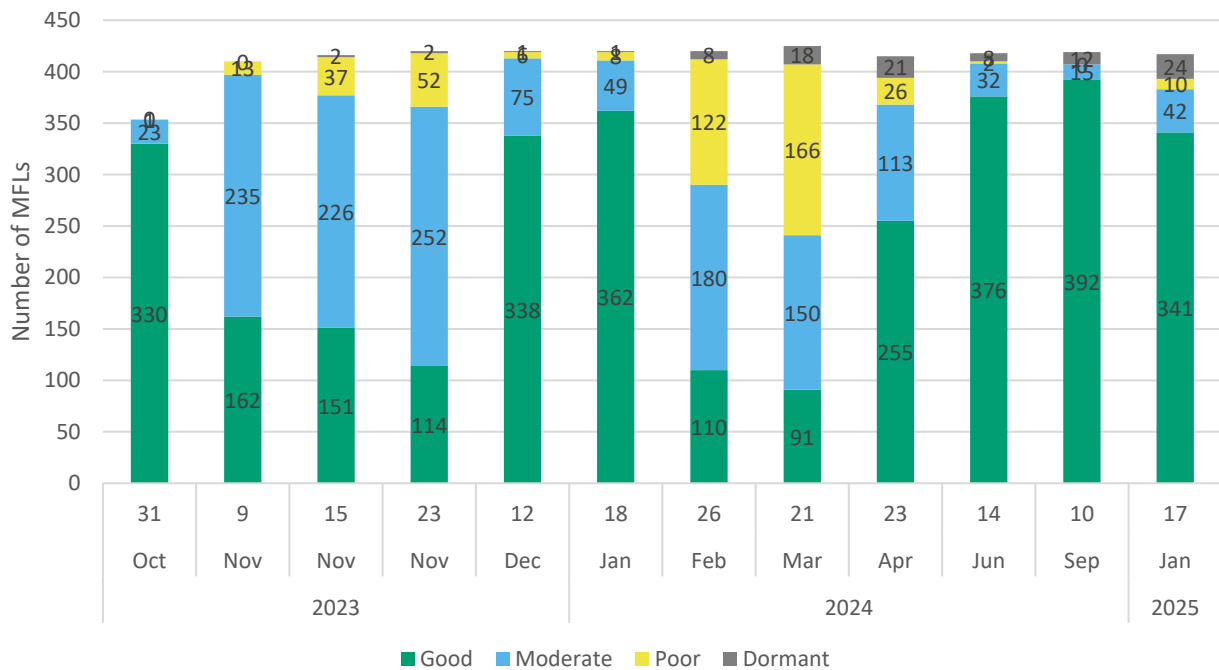


Figure 10 Batch 2 MFL condition in Cherry Street Reserve and Gresswell Forest Nature Conservation Reserve between October 2023 to January 2025

Figure 11 shows the percentage of plants observed with buds, flowers fruits and the total number of plants with any reproductive material observed from October 2023 to January 2025.

At least 24% of the Batch 2 MFL plants exhibited evidence of reproduction (any evidence of either buds, flowering and/or fruiting) during Event 12, the most recent monitoring event (Figure 11). This is consistent In Victoria where MFL usually produce reproductive material during November to February. MFL plants displaying some stage of reproductive material is a good sign of health of MFL health. The proportion in 2024/2025 is significantly less than in the previous flowering season. It is likely that the first flowering season after they were translocated had such a high proportion of flowering because they had been in the relative comfort of nursery conditions. This past season and future seasons are likely to have lower proportion of MFLs until the plants are established.

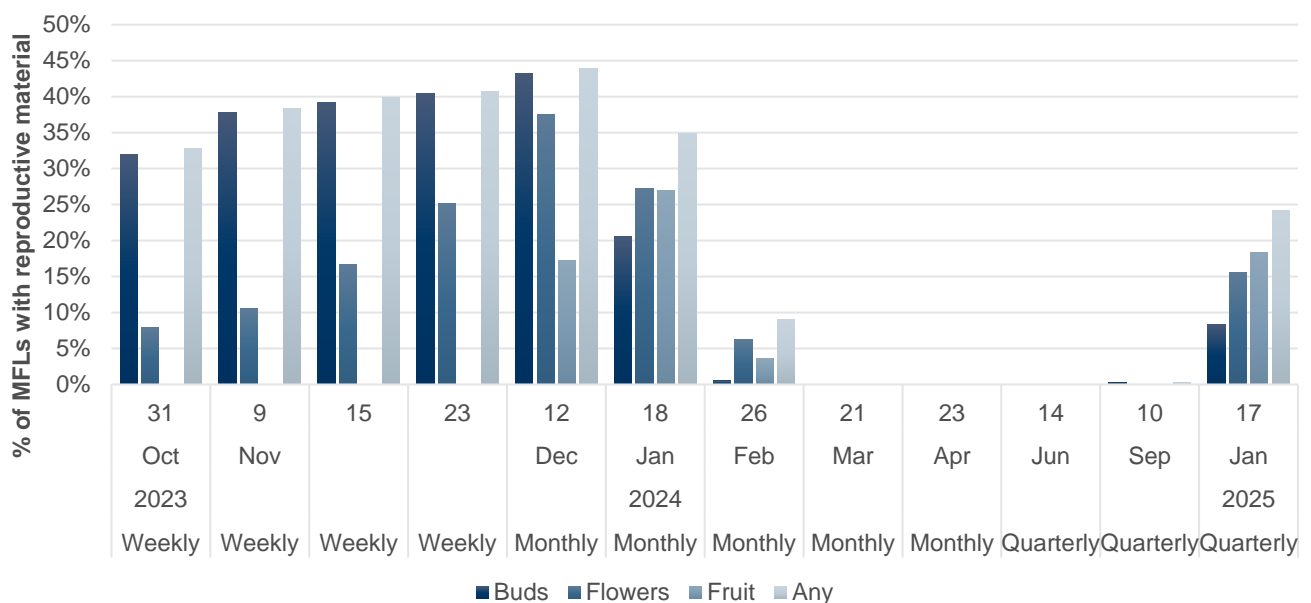


Figure 11 Batch 2 MFL buds, flowering and fruiting percentages Cherry Street Reserve and Gresswell Forest Nature Conservation Reserve between October 2023 to January 2025

The size of MFL plants is determined by measuring the basal diameter, leaf height and the number of ramets (Table 13). The basal diameter increased while the leaf length and number of ramets decreased from December 2023 to December 2024/ January 2025.

The increase in basal diameter indicates that the new ramets are growing from the original translocated plants signifying that the MFLs are establishing in the area. The reduction in leaf height and number of ramets could be attributed to dryer conditions during the monitoring period. Based on BOM 2025 data (Section 4.1), lower rainfall and higher average maximum temperatures were recorded in early summer of 2024–2025 compared to the previous year during the annual monitoring period. These weather conditions result in drying of leaves and new ramets which was documented in the most recent monitoring of this report. This is not necessarily a concern at this point and plants are expected to recover in the coming months as the temperature drops and rainfall increases. More rainfall was already observed in January 2025 than in December 2024 and new ramets and leaves are expected to grow in the next few months.

Table 13 *Batch 2 Additional monitoring data collected on a subset of the population in December 2023 and December 2024 & January 2025- 23 MFL plants*

| Annual monitoring– 23 MFL plants | Event 5 (December 2023) | Event 12 (December 2024 & January 2025) |
|----------------------------------|-------------------------|-----------------------------------------|
| Average max leaf length (cm) | 27.7 | 22.4 |
| Average Basal diameter (cm) | 10.3 | 16.7 |
| Average no. of ramets | 8.3 | 5.8 |

4.3.2 Maintenance

Since translocation of the MFL plants they have been watered in accordance with the maintenance plan for the project (Table 14). Additionally, there has been some weed control conducted throughout 2024. Further maintenance information can be found in Table 14.

Table 14 *Maintenance actions planned and completed in Cherry Street Reserve for the translocated Matted Flax-lilies (MFL) in January – December 2024*

| Action | Timing | Outcome |
|------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Weed control – Annual non-native grasses | June, July, August and September 2024 | Reduced annual non-native grass weed load across the year. |
| Weed control – Broadleaf weed treatment | July, August, October and November 2024 | Reduced broadleaf weed load across the year. |
| Weed control – Woody weeds | August 2024 | Cut and paint of <i>Pittosporum</i> sp, <i>Cassinia</i> sp, <i>Chrysanthemoides monilifera</i> , <i>Rubus anglocandicans</i> and <i>Billardiera heterophylla</i> across translocation site. |
| Hand weeding of MFL plants | February, July August 2024 | More space around the MFL plants and removing Bridal Creeper from MFL plants. |
| Weed control – spot spraying | June, September and November 2024 | Reduction in the instances of other weeds in the Reserve. |
| Watering MFLs | Four times in February, and once in August 2024 | Application of water to the MFLs at a time when the monthly rainfall was 3.2 mm. This value is lower than the mean for February, 41.5 mm. |

4.3.3 Genetic diversity

100% of the Batch 2 parent plants are represented by living clones at Cherry Street Reserve and Gresswell Forest Nature Conservation Reserve. Table 15 shows the number of parents plants with either one, two, three or four living clones. Appendix D detailed the number of living clones for each parent plant. There was one parent plant identified during the most recent monitoring event with one surviving clone, plant 31 (Table 15). All of the clones of plant 31 have been recorded as alive in recent monitoring events. It is likely that these plants are currently dormant and may be observed again in future monitoring events.

At this stage it is not recommended to replant MFLs due to the following reasons:

- The dead plant (39-003) has one dormant and two living siblings
- The plant that has only one living clone in January 2025, had all its clones observed as alive in June 2024
- The target is 85% alive and even with 39-003 being assessed as dead, the translocation program can still meet the target

These recommendations will be reassessed with each monitoring event so that if any replanting is required it can be done as soon as possible. There are two clones for each parent plant available in a nursery managed by Abzeco, if any MFL need to be replaced.

If all clones of a parent plant in the translocated population die, new clones would need to be planted from that original parent plant to maintain the genetic diversity of the translocated population. Monitoring of these newly planted MFLs would need to be restarted and would follow the same pattern as the original monitoring plan.

Table 15 *The number of parent plants grouped by number of surviving clones from Batch 2 in January 2025*

| Number of clones alive | Number of parent plants |
|------------------------|-------------------------|
| 1 | 1 |
| 2 | 4 |
| 3 | 16 |
| 4 | 84 |

4.3.4 Threats

4.3.4.1 Drying out

At this stage of the monitoring program for Batch 2, the primary threat to plant health is environmental conditions such as heat and dryness. Based on climatic data for the site (BOM 2025) (Section 4.1), lower rainfall and higher average maximum temperatures were recorded in early summer of 2024–2025 compared to the previous year during the annual monitoring period, which may have triggered the dormancy of MFLs.

4.3.4.2 Biomass

During the latest monitoring event of the Batch 2 MFL plants, MFLs were observed growing through grasses, along with saplings of *Acacia* sp. (Wattles) These grasses and saplings compete with the MFL for light, nutrients, and moisture (Appendix C, Table C3). It is recommended that biomass management continues at the site, and it is likely that a prescribed burn will be recommended in the next two to three years.

4.3.4.3 Herbivory and pathogens

Herbivory remained low in 2024 (Figure 12). This will be monitored over the life of the program in case conditions change.

An active rabbit burrow was identified near one MFL. Uncontrolled rabbits can cause damage through herbivory and digging, potentially burying nearby MFLs. At this stage no specific actions are recommended to address rabbits around the MFLs, but monitoring will continue to review this assessment.

There was no evidence of any pathogens impacting on the MFL plants.

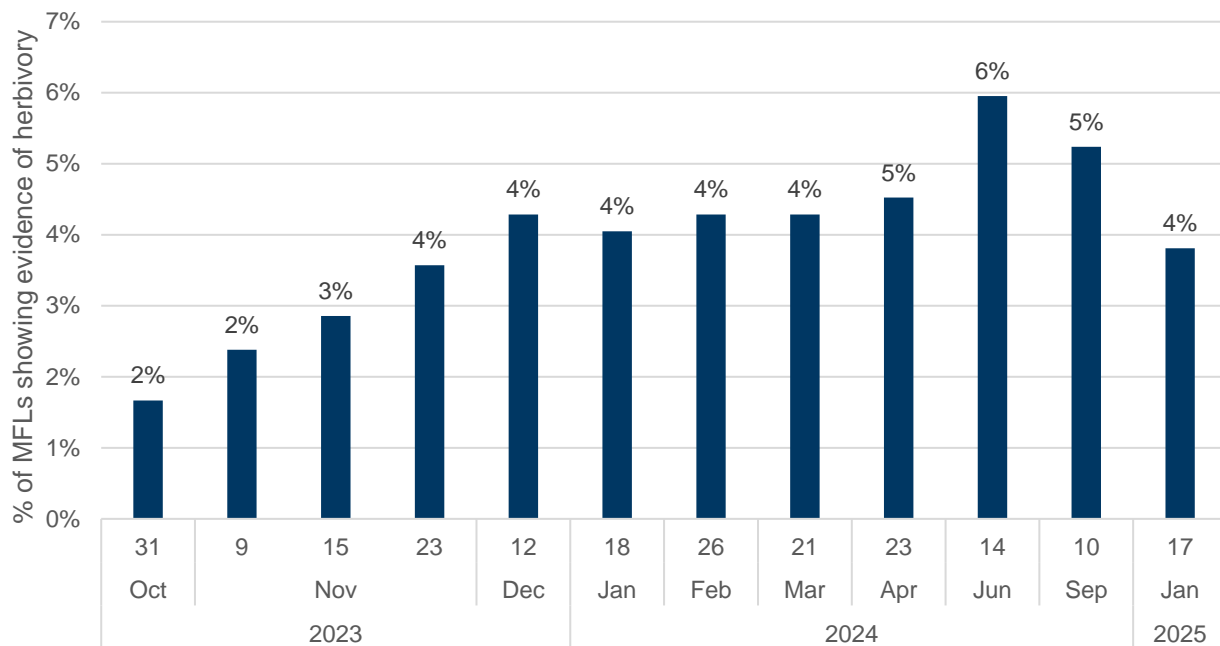


Figure 12 The percentage of Batch 2 MFL plants impacted by herbivory percentages Cherry Street Reserve and Gresswell Forest Nature Conservation Reserve between October 2023 to January 2025

4.3.4.4 Sunken soil

Sunken soils around the base of 14 MFL plants were still observed in the latest monitoring event. Previous monitoring noted this as cause of water logging on the plants, which can cause tuber rot that is detrimental to MFLs.

4.3.4.5 Missing tags

At least six MFLs from Batch 2 were noted with either missing or broken tags that need replacing. It is important for each MFL to have a specific tag to make it possible to locate and identify each MFL.

4.3.5 Recommended additional maintenance

The following actions are recommended for the maintenance of the Batch 2 MFL plants:

- Continue monitoring the plants recorded as dormant as per the MFL Salvage and Translocation Plan and review whether any supplementary MFL planting is recommended.
- For the MFL plants with sunken soil, extra soil and sand can be added to the MFL plants in Gresswell Forest Nature Conservation Reserve to avoid possible waterlogging which could possibly cause tuber rot. Replacement of six MFL tags is recommended where tags were missing or broken in the most recent round of monitoring.

These recommendations have been discussed with Abzeco as part of the monthly meetings between NELP and Abzeco. Reporting on these recommendations will be part of the next annual Matted Flax-lily Annual Compliance Report due to be published in 2026.

4.3.6 Summary of results

Overall, the Batch 2 MFL translocation program is considered to be on track as 94% or 393 of MFL plants have been observed to have survived within the January 2024 to January 2025 timeframe, with majority of plants showing more than 70% healthy green leaves in that timeframe. Only one MFL was assessed as dead. The 27 dormant MFLs are expected to resprout as more rainfall is expected in the coming months.

Table 16 summarises the results at the end of the four months of monitoring. The annual monitoring data shown in Table 17 collected in December 2023 and January 2025 is also included to provide a deeper understanding of the condition of the translocated MFL plants. An increase in the average basal area suggests the growth of new sprouts of MFL. The drier conditions at the site may have contributed to a reduction in average leaf length, and number of ramets observed in the most recent monitoring activity.

Table 16 *Batch 2 Monitoring data collected at each event from Event 6 January 2024 to Event 12 January 2025*

| Data collected every monitoring event | Event 6 18 Jan 2024 | Event 7 26 Feb 2024 | Event 8 21 Mar 2024 | Event 9 23 Apr 2024 | Event 10 14 June 2024 | Event 11 10 Sep 2024 | Event 12 17 Jan 2025 |
|----------------------------------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-----------------------------|-------------------------|-------------------------|
| Living plants (no.) | 419 | 412 | 398 | 394 | 410 | 407 | 393 |
| Dormant (no.) | 1 | 8 | 22 | 26 | 10 | 13 | 27 |
| % of plants with >70% of healthy leaves (good condition) | 86% | 27% | 22% | 65% | 92% | 96% | 87% |
| % of plants with 30<70% of healthy leaves (moderate condition) | 12% | 44% | 37% | 29% | 8% | 4% | 11% |
| % of plants with <30% of healthy leaves (poor condition) | 2% | 30% | 41% | 7% | 0% | 0% | 3% |
| Proportion of plants with flowering / fruiting present | 35% | 9% | 8% | 5% | 0% | 0% | 24% |
| Noxious weeds present (within 0.5 m radius) | 2% | 1% | 1% | 1% | 1% | 1% | 1% |
| Herbivory Present (%) | 4% | 4% | 4% | 5% | 6% | 5% | 4% |

Table 17 *Batch 2 Monitoring data collected on a subset of the population in December 2023 and December 2024 & January 2025- 23 MFL plants*

| Annual monitoring– 23 MFL plants | Event 5 (December 2023) | Event 12 (December 2024 & January 2025) |
|----------------------------------|-------------------------|-----------------------------------------|
| Average max leaf length (cm) | 27.7 | 22.4 |
| Average Basal diameter (cm) | 10.3 | 16.7 |
| Average no. of ramets | 8.3 | 5.8 |

5. Assessment of translocation success against performance benchmarks

An assessment of the results of the MFL Salvage and Translocation Monitoring program against the approved performance benchmarks has been undertaken to determine the success of the MFL translocation program to date.

The Batch 2 MFL survivorship is considered on track for the MFL Salvage and Translocation Plan with the survival rate of 94%. Batch 1 MFL survivorship is currently below the 85% target, at 73%. However of the 29 plants that were not observed as 'alive' in Batch 1 (and have contributed to the current survivorship metrics), only one of these plants is considered dead as it has not been observed for over 12 months, whilst the other 28 MFL plants have been classified as dormant and are likely to regrow once conditions improve in Autumn and Winter 2025.

Table 18 provides an assessment of the results of the MFL monitoring program against the MFL Salvage and Translocation Plan translocation performance benchmark criteria.

Table 18 *Translocation criteria for success of the Matted Flax-lily translocation program (adapted from the Salvage and Translocation Management Plan, GHD 2022c)*

| Translocation criteria | Outcome for each batch of translocated plants over the 2024 monitoring window | |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Batch 1 | Batch 2 |
| 1. At least 85 percent of transplanted clones survived, including representatives from the range of genetic individuals salvaged | As of 17 January 2025, two years and five months into the translocation program, 73% of the original Batch 1 MFL plants have survived, including representatives from the full range of genetic individuals salvaged. There were 28 MFLs recorded as dormant in the latest monitoring events. This is currently below the target survival. Based on the ecology of the species and previous monitoring data it is expected that more MFLs will be recorded as alive in June 2025 and that the survival target can still be reached. | As of 17 January 2025, one year and three months into the translocation program, 94% of the original Batch 2 MFL plants have survived, including representatives from the full range of genetic individuals salvaged. This is above the target survival. |
| 2. The translocated populations displayed similar growth, development and vigour as naturally occurring populations | As of 17 January 2025, 44% of the MFL plants exhibited good health. The proportion of plants observed to be in good health decreased between June 2024 (76% in good health) and January 2025, as the temperature increased and recorded rainfall decreased. The National Recovery Plan for Matted Flax-lily (Carter 2010) states that the species' leaves are deciduous in summer if plants are water-stressed. This correlates with the trend observed of a decline in health of the translocated individuals during the warmer months, and could be part of the natural cycle for this species. 14% of the MFLs showed some level of reproductive activity (buds, flowers or fruits) in January which is within the expected window for the species (VicFlora 2025). | In January 2025, 87% of the MFL plants exhibited good. The proportion of plants observed to be in good health decreased between June 2024 (92% in good health) and January 2025, as the temperature increased and recorded rainfall decreased. The National Recovery Plan for Matted Flax-lily (Carter 2010) states that the species' leaves are deciduous in summer if plants are water-stressed. This correlates with the trend observed of a decline in health of the translocated individuals during the warmer months, and could be part of the natural cycle for this species. 24% of the MFLs showed some level of reproductive activity (buds, flowers or fruits) in January which is within the expected window for the species (VicFlora 2025). |

| Translocation criteria | Outcome for each batch of translocated plants over the 2024 monitoring window | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Batch 1 | Batch 2 |
| 3. Transplants survived to a reproductive stage (producing flowers and fruit) | As of 17 January 2025, 14% of plants were observed in some stage of reproduction (presence of any buds, flowers or fruit). The presence of reproductive materials, particularly during the expected reproductive season (November to February), is a positive indicator of MFL health. | As of 17 January 2025, 24% of plants were observed in some stage of reproduction (presence of any buds, flowers or fruit). The presence of reproductive materials, particularly during the expected reproductive season (November to February), is a positive indicator of MFL health. |
| 4. If plants didn't survive to reproductive stage, then the plants were replaced | As of 17 January 2025, one plant was assessed as dead. Replacement is not recommended because this plant has other clones that have been recorded as alive, preserving the genetic survival of that parent plant. | As of 17 January 2025, one plant was assessed as dead. Replacement is not recommended because this plant has other clones that have been recorded as alive, preserving the genetic survival of that parent plant. |
| 5. Regeneration occurred in the translocated individuals (since the recruitment MFL through seed is thought to be rare, the production of ramets at a rate similar to naturally occurring populations is considered sufficient to meet this criterion) | Quadrat monitoring revealed that the average basal diameter of the MFL Batch 1 increased over the monitoring events, from 15.10 cm in December 2022 to 18.44 cm in January 2025. This increase suggests that new ramets are emerging from the original translocated plants. | Quadrat monitoring revealed that the average basal diameter of the MFL Batch 2 increased over the monitoring events, from 10.30 cm in December 2022 to 16.70 cm in January 2025. This increase suggests that new ramets are emerging from the original translocated plants. |
| 6. The number of individuals within the population was stable, or had increased by natural (including vegetative) recruitment | The survivorship is below the target 85% as of last monitoring event possibly because of dryer conditions in January 2025. There are 27 dormant plants, and it is expected some of these are likely to regrow in the cooler wetter months. | Survivorship rate of the translocated MFL is high and the population size is currently stable. |
| 7. Adequate levels of genetic diversity were maintained | As of January 2025, 100% of the salvaged plants are represented by living clones. | As of January 2025, 100% of the salvaged plants are represented by living clones. |

6. Compliance with Environment Protection and Biodiversity Conservation (EPBC) Act approval conditions

Conditions 1, 2, 3 and 4 of the EPBC 2018/8142 approval allows for NELP to clear up to 139 MFL plants, and to salvage, propagate and translocate the impacted MFL plants into appropriate recipient sites. A total of 132 MFL individuals have been salvaged for the project to date, between April 2020 – October 2023.

Following translocation, NELP has monitored the translocated MFL plants each year, and will continue to monitor the translocated individuals for at least five years and provide a series of reports to the DCCEEW detailing the progress of the Matted Flax-lily Salvage and Translocation Plan.

Table 19 provides an assessment of the results of the MFL monitoring program against the EPBC Approval (EPBC 2018/8142) conditions. The program is currently compliant with all of the EPBC Act approval conditions.

Table 19 EPBC 2018/8142 Approval Conditions relevant to Matted Flax-lily plants

| Condition no. | Approval Condition | Condition currently triggered | Compliance | Comments and supporting documentation | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|----------------------|-----------------|----------|------------------|------------|------------|------------------|---|-----------|------------|------------------|----|------------|-----------------------|------------------|-----|--------------|------------|-------------------------------|---|
| 1 | Unless otherwise agreed to in writing by the Minister, the approval holder must not clear more than: a) 139 MFL plants and/or patches of MFL | Yes | Compliant | The project has so far salvaged 132 of the 139 plants/patches of MFL and is therefore compliant within the scope of the approval. <table><tr><td>Pre-Clearance survey</td><td>Date of Salvage</td><td>Location</td><td>Number of plants</td></tr><tr><td>March 2020</td><td>01/04/2020</td><td>Simpson Barracks</td><td>7</td></tr><tr><td>July 2020</td><td>02/09/2020</td><td>Simpson Barracks</td><td>20</td></tr><tr><td>April 2021</td><td>23/08/2021-24/08/2021</td><td>Simpson Barracks</td><td>103</td></tr><tr><td>October 2023</td><td>10/10/2023</td><td>M80 Ring Road and Grimshaw St</td><td>2</td></tr></table> | | | | Pre-Clearance survey | Date of Salvage | Location | Number of plants | March 2020 | 01/04/2020 | Simpson Barracks | 7 | July 2020 | 02/09/2020 | Simpson Barracks | 20 | April 2021 | 23/08/2021-24/08/2021 | Simpson Barracks | 103 | October 2023 | 10/10/2023 | M80 Ring Road and Grimshaw St | 2 |
| Pre-Clearance survey | Date of Salvage | Location | Number of plants | | | | | | | | | | | | | | | | | | | | | | | | |
| March 2020 | 01/04/2020 | Simpson Barracks | 7 | | | | | | | | | | | | | | | | | | | | | | | | |
| July 2020 | 02/09/2020 | Simpson Barracks | 20 | | | | | | | | | | | | | | | | | | | | | | | | |
| April 2021 | 23/08/2021-24/08/2021 | Simpson Barracks | 103 | | | | | | | | | | | | | | | | | | | | | | | | |
| October 2023 | 10/10/2023 | M80 Ring Road and Grimshaw St | 2 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | To compensate for clearing the number of MFL plants and/or patches: | Yes | | Please refer to the specific conditions below for details on compliance. | | | | | | | | | | | | | | | | | | | | | | | |
| | a) Prior to any clearance, the approval holder must undertake a pre-clearance survey to identify the total numbers of MFL plants and patches of Mated Flax-lily that, if not salvaged, would be impacted by the approved action. | | Compliant | Pre-clearance surveys occurred in March 2020, July 2020 and April 2021 prior to salvaging events of the MFL. The pre-clearance surveys were undertaken in accordance with the Matted Flax-lily Salvage and Translocation Plan (GHD 2022c). The Project is therefore compliant with this condition. | | | | | | | | | | | | | | | | | | | | | | | |
| | b) Prior to construction, the approval holder must salvage all MFL plants and patches of MFL that were previously recorded in a pre-clearance survey and that would otherwise be impacted due to the approved action. In the event that construction occurs in stages, prior to commencing each stage the approval holder must salvage all MFL plants and patches of MFL that were previously recorded in a pre-clearance survey and that would otherwise be impacted by that stage of work. | | Compliant | MFL salvage and translocation has been completed for the early works stage and to facilitate the Primary (Tunnelling) Package of works in accordance with the Matted Flax-lily Salvage and Translocation Plan (GHD 2022c) and is therefore compliant with the condition. Salvage (removal) occurred in three broad stages; to facilitate the early works program (completed) and a larger salvage to facilitate the Primary (completed) and Secondary (Freeway) Packages of Works (completed). NELP has recorded salvage and translocation information as it is completed in a Matted Flax-lily Asset Management Register spreadsheet. | | | | | | | | | | | | | | | | | | | | | | | |

| Condition no. | Approval Condition | Condition currently triggered | Compliance | Comments and supporting documentation |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | c) The approval holder must propagate the salvaged MFL plants and patches and translocate them, excepting some MFL plants and patches kept as an insurance population, to a recipient site. The number of MFL plants and patches kept as insurance population must not be the majority of the MFL plants or patches propagated. All propagated plants or patches, excepting those kept as an insurance population, must be translocated within two years of salvage of each MFL plant and patch. | | Compliant | <p>As outlined in the Matted Flax-lily Salvage and Translocation Plan Rev 4 (Oct 2022), sufficient material was taken from each plant to generate the required six (6) clones per plant/ patch; the Project is therefore compliant with this condition.</p> <p>The individuals were salvaged and processed at the selected nursery in accordance with the Matted Flax-lily Salvage and Translocation Plan Rev 4 (GHD 2022c). At least six (6) clones have been propagated from each original individual and are surviving at time of reporting.</p> <p>The MFL have been planted in two batches. the Batch 1 MFL plants were translocated to Cherry Street Reserve in August 2022 while the Batch 2 MFL were planted in October 2023 at Cherry Street Reserve and Gresswell Forest Nature Conservation Reserve; the Project is therefore compliant with this condition.</p> |
| | d) The approval holder must manage the recipient site for a period of 10 years commencing on the date that the first MFL is translocated to the recipient site. | | Compliant | <p>Translocation of the MFL plants from Batch 1 and Batch 2 occurred in August 2022 and October 2023, respectively, and management of the sites is ongoing.</p> <p>The management of the sites is detailed in site schedules for both Cherry Street Reserve and Gresswell Forest Nature Conservation Reserve. Maintenance will be continued and adapted as the needs of the MFL plants change over time.</p> <p>The project is therefore compliant with this condition.</p> |
| | e) The approval holder must monitor the recipient site for a period of at least 10 years, commencing on the date that the first MFL plant or patch of MFL is translocated to the recipient site and, concluding no sooner than five years after the last MFL plant or patch of MFL is translocated to the recipient site. | | Compliant | <p>Translocation of the MFL plants from the Batch 1 and Batch 2 occurred in August 2022 and October 2023, respectively, and management of the sites is ongoing. The following report have been prepared and submitted for this project:</p> <p>Translocated Matted Flax-Lily Annual Monitoring Report - Dec 2022 (GHD, 2023)- This monitoring report provides a description of the method, results, and an assessment of the health and condition of the Batch 1 MFLs associated with the monitoring program undertaken from August 2022 to December 2022</p> <ul style="list-style-type: none"> – Matted Flax-lily Baseline 2023- and 3-Month Monitoring Report (GHD, 2024)- this report described the monitoring program and method applied to assess and record the condition of the 420 MFLs (Batch 2) following the translocation event at Cherry Street Reserve, Macleod and Gresswell Forest Nature Conservation Reserve, Macleod (the recipient sites) in October of 2023. – Matted Flax-lily 2024 Annual Compliance Report (GHD,2024)- This report described the monitoring program and method applied to assess and record the condition of the 528 MFLs (Batch 1 and 2) in 2023 <p>This report, as well, forms part of the ongoing monitoring and the Project is therefore compliant with the condition.</p> |

| Condition no. | Approval Condition | Condition currently triggered | Compliance | Comments and supporting documentation |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | f) The approval holder must, until otherwise agreed in writing by the Minister, provide the Department with a report each year as part of the compliance report, which must detail the numbers of MFL plants and patches that have been translocated to the recipient site and the numbers of translocated and propagated plants and patches that have survived until the end of the period reported on. The report must also document threats to the translocated MFL plants and patches and any management actions, including corrective actions, taken or proposed. | | Compliant | <p>Monitoring and management of the translocation site is ongoing. In August 2022 108 MFL plants (Batch 1) were translocated into Cherry Street Reserve. In 17 January 2025, 79 are still alive and only one is considered dead.</p> <p>In October 2023 additional 420 MFL plants (Batch 2) were translocated in Cherry Street Reserve and Gresswell Forest Nature Conservation Reserve. In 17 January 2025, 393 are still alive and only one is considered dead.</p> <p>The threats to MFL survival include high amounts of biomass, herbivory and sunken soil that historically caused waterlogging. Corrective actions have been taken including adding more soil to some MFL plants, hand-weeding around MFL plants, and cool burning.</p> <p>Further details of the survivorship and threats of both Batch 1 and Batch 2 in Section 4 of this report.</p> <p>The Project is compliant with the condition.</p> |
| 3 | By implementing contingency measures, the approval holder must ensure that a minimum of 85 percent of four times the number of salvaged MFL plants and patches have survived at the recipient site at least five years after the date the last MFL plant or patch, excepting plants or patches from the insurance population, is translocated to the recipient site. The approval holder must ensure that the location of each translocated MFL plant and patch is recorded in the Atlas of Living Australia and Victorian Biodiversity Atlas within six months of being translocated | Yes | Compliant | <p>To comply with this requirement, at the end of five years at least 449 (85% of 528) of the MFL plants at Cherry Street Reserve and Gresswell Forest Nature Conservation Reserve need to survive. As of January 2025, 79 are confirmed to be alive from Batch 1 and 393 from Batch 2.</p> <p>MFL location data for the MFL plants that are reported on in this report have been added to the VBA under project ID 6931 for Batch 1 and 5731 for Batch 2.</p> <p>MFL location data for the MFL plants that are reported on in this report have been submitted to the Atlas of Living Australia and assigned number 175071 for Batch 1 and 195464 for Batch 2 to the data.</p> <p>The project is compliant with this condition.</p> |

| Condition no. | Approval Condition | Condition currently triggered | Compliance | Comments and supporting documentation |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------|---------------------------------------|
| 4 | If the Minister is not satisfied that the requirements of condition 3 have been, or are likely to be, achieved, and has given the approval holder written notice to this effect, the approval holder must: | No | Not applicable | Not applicable |
| | a) Within one year of receiving written notification by the Minister to this effect, plant propagated MFL plants and/or patches to the recipient site in accordance with directions made by the Minister | No | Not applicable | Not applicable |
| | b) Provide the Department with a report each year for an additional five years as part of the compliance report, which must detail the numbers of MFL plants and patches that have been translocated to the recipient site and the numbers of translocated and propagated plants and patches that have survived until the period reported on. The report must also document threats to the translocated MFL plants and patches and any management actions, including corrective actions, taken or proposed | No | Not applicable | Not applicable |
| | c) Each 12 months, for the following five years, the approval holder must translocate an additional number of MFL plants and/or patches to the recipient site equal or greater than the number which have not survived during the preceding 12 months. The translocated MFL plants and patches must be sourced from the plants and patches propagated as required under condition 2c | No | Not applicable | Not applicable |

7. Conclusions

This report documents the results of the MFL annual monitoring for the project undertaken in January 2024 to January 2025. The program is currently compliant with six out of the seven translocation criteria. Translocation criterion one is not currently being met by Batch 1, but it is likely this will improve as conditions for the MFLs improve.

The monitoring events in 2025 for Batch 1 will be conducted biannually in June, and December, and for Batch 2 they will be conducted quarterly in March, June, September and biannually starting December.

7.1 Recommendations and next steps

In addition to continuing the ongoing monitoring program as prescribed in the Salvage and Translocation Monitoring Program (GHD 2022c), based on the findings from monitoring activities to date, the following maintenance and corrective actions are proposed to address identified threats to some of the translocated MFLs:

- Control burning in the Cherry Street Reserve where batch 1 MFLs have been translocated is recommended during autumn. This should be a cool burn of overgrown grass and saplings of *Acacia* sp. and *Eucalyptus* sp. to give these MFLs a better chance of resprouting, growing larger and establishing more securely.
- Watering of MFLs during the summer season is also recommended to reduce plant dormancy during this season.
- Add extra soil and sand to the 14 MFL plants from Batch 2 in Gresswell Forest Nature Conservation Reserve found with sunken soil at the base of the plants to avoid possible water logging.
- Monitor for signs of rabbit activity.
- Replace all missing and broken tags to locate easily and monitor the genetic survival properly.

Detailed records of all maintenance and corrective actions, including date, and type of action, will continue to be maintained. This data will be used to track the effectiveness of the actions and inform future management decisions. Additionally, the maintenance schedule will be reviewed and adapted as needed based on the monitoring results. These recommendations have been discussed with Abzeco as part of the monthly meetings between NELP and Abzeco. Reporting on the implementation of these recommendations, and any resulting changes, would be incorporated in the Matted Flax-lily 2025 Annual Compliance Report (due to be published in 2026).

Monitoring will continue to assess whether any replacement MFLs need to be planted. There are two clones for each parent plant available in a nursery managed by Abzeco, if any Matted Flax-lilies need to be replaced. Any MFL that needs to be replanted will trigger additional monitoring until the plant is considered established.

The next monitoring event will be in June 2025 for Batch 1 March 2025 for Batch 2. Annual monitoring will be undertaken December 2025 for both Batch 1 and 2 and the report documenting the results of the 2025 monitoring will be prepared in early 2026.

8. References

ABZECO (2022) Maintenance Schedule, Flora Species & Weed Cover Estimates, Cherry Street Receptor Site July 2022

ABZECO (2025) Management Burn, Cherry Street Grassland Reserve, Macleod. Prepared for City of Darebin

BoM (2025) Climate Data Online. Australian Government Bureau of Meteorology. Accessed January 2025.
<http://www.bom.gov.au/climate/data/index.shtml>

Carter, O. (2010). National Recovery Plan for the Matted Flax-lily *Dianella amoena*. Department of Sustainability and Environment, Victoria

GHD (2022a) North East Link project Matted Flax-lily monitoring Baseline and Initial Audit – Cherry Street Reserve August 2022

GHD (2022b) North East Link project Matted Flax-lily monitoring 3-month Audit Cherry Street Reserve October 2022

GHD (2022c) North East Link Project Salvage and Translocation Plan December 2022

GHD (2024a) Matted Flax-lily 2023 Annual Compliance Report

GHD (2024b) Matted Flax-lily Baseline 2023 and 3 Month Monitoring Report May 2024

Vallee L., Hogbin T., Monks L., Makinson B., Matthes M. & Rossetto M. (2004), Guidelines for the Translocation of Threatened Plants in Australia - Second Edition, Australian Network for Plant Conservation, Canberra

VicFlora (2025). Flora of Victoria, Royal Botanic Gardens Victoria. Available online:
<https://vicflora.rbg.vic.gov.au/flora/taxon/37a818fc-49f7-4bf0-90a7-2f807d2db18b> (last accessed May 2025).

Appendices

Appendix A

Photo monitoring points

Cherry St Batch 1

| Photo point | Event 13-Quarterly 21 March 2024 | | Event 14-Quarterly 14 June 2024 | | Event 15-Biannually 17 January 2025* | |
|-------------|-------------------------------------|--|------------------------------------|--|-----------------------------------------|--|
| CS B1 PP1 | | | | | | |
| CS B1 PP2 | | | | | | |
| CS B1 PP3 | | | | | | |
| CS B1 PP4 | | | | | | |

*Originally scheduled on 16 December 2024 but due to extreme fire danger warning of the site it was postponed to January 2025

Cherry St Batch 2

| Photo point | Event 6- Monthly 18 January 2024 | Event 7- Monthly 26 February 2024 | Event 8- Monthly 21 March 2024 | Event 9- Monthly 23 April 2024 | Event 10- Quarterly 14 June 2024 | Event 11-Quarterly 10 September 2024 | Event 12-Quarterly 17 January 2025* |
|--------------|-------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|-------------------------------------|-----------------------------------------|----------------------------------------|
| CS B2 PP1 | | GHD NELP MFL EVENT 7 Cherry street NW corner | GHD NELP MFL EVENT 8 Cherry street NW corner | GHD NELP MFL EVENT 9 Cherry street NW corner | | | |
| CS B2 PP2 | | GHD NELP MFL EVENT 7 Cherry street NE corner | GHD NELP MFL EVENT 8 Cherry street NE corner | | | | |
| CS B2 PP3 | | GHD NELP MFL EVENT 7 Cherry street SE corner | GHD NELP MFL EVENT 8 Cherry street SE corner | | | | |
| CS B2 PP4 | | GHD NELP MFL EVENT 7 Cherry street SW corner | GHD NELP MFL EVENT 8 Cherry street SW corner | | | | |

*Originally scheduled on 16 December 2024 but due to extreme fire danger warning of the site it was postponed to January 2025

Gresswell Forest Nature Reserve Batch 2

| Photo point | Event 6- Monthly 18 January 2024 | Event 7- Monthly 26 February 2024 | Event 8- Monthly 21 March 2024 | Event 9- Monthly 23 April 2024 | Event 10- Quarterly 14 June 2024 | Event 11-Quarterly 10 September 2024 | Event 12-Quarterly 12 December 2024 |
|--------------|-------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------|-------------------------------------|-----------------------------------------|----------------------------------------|
| GF B2 PP1 | | GHD NELP MFL EVENT 7 Gresswell Forest NW corner | GHD NELP MFL EVENT 8 Gresswell Forest NW corner | No Photo | | | |
| GF B2 PP2 | | GHD NELP EVENT 7 GRESSWELL FOREST NE CORNER | GHD NELP EVENT 8 GRESSWELL FOREST NE CORNER | No Photo | | | |
| GF B2 PP3 | | | GHD NELP MFL EVENT 8 Gresswell Forest SE corner | No Photo | | | |
| GF B2 PP4 | | | GHD NELP EVENT 8 GRESSWELL FOREST SW CORNER | No Photo | | | |

Appendix B

Representative photos of Matted Flax-lilies

| Representative photos of Matted Flax-lily plants at each translocation site | | | |
|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location: Cherry Street Reserve Event 15 – 17 January 2025 (MFL Batch 1) | | | |
| MFL number | | MFL number | |
| 021-004 | <p>A photograph of a Matted Flax-lily plant growing in a field of dry grass and fallen leaves. The plant has several long, thin, green leaves and a small, dark, upright flower stalk. A small pink tag is visible near the base of the plant.</p> <p>GHD NELP MFL Event 15 Cherry St Batch 1 25-0043 17/01/2025 09:43 37.724028 145.06497 22 Portlago Cntrl Macleod VIC</p> | 005-003 | <p>A close-up photograph of a Matted Flax-lily plant. A hand is holding a long, thin, green leaf, showing its texture and color. The background shows other plants and dry grass.</p> <p>GHD NELP MFL Event 15 Cherry St Batch 1 25-0043 17/01/2025 09:43 37.724028 145.06497 22 Portlago Cntrl Macleod VIC</p> |
| 02-004 | <p>A photograph of a Matted Flax-lily plant growing in a field of dry grass and fallen leaves. The plant has several long, thin, green leaves and a small, dark, upright flower stalk. A small pink tag is visible near the base of the plant.</p> <p>GHD NELP MFL Event 15 Cherry St Batch 1 02-004 17/01/2025 09:43 37.72395 145.06497 22 Portlago Cntrl Macleod VIC</p> | 03-002 | <p>A photograph of a Matted Flax-lily plant growing in a field of dry grass and fallen leaves. The plant has several long, thin, green leaves and a small, dark, upright flower stalk. A small pink tag is visible near the base of the plant.</p> <p>GHD NELP MFL Event 15 Cherry St Batch 1 03-002 17/01/2025 09:43 37.72395 145.06497 22 Portlago Cntrl Macleod VIC</p> |

Representative photos of Matted Flax-lily plants at each translocation site

Location: Cherry Street Reserve Event 12 – 17 January 2025 (MFL Batch 2)

030-004



034-002







028-002



036-004



| Representative photos of Matted Flax-lily plants at each translocation site | | | |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------|
| Location: Gresswell Forest Nature Conservation Reserve Event 12 – 12 December 2024 (MFL Batch 2) | | | |
| 96-002 |  | 047-003 |  |
| 117-001 |  | 126-002 |  |

Appendix C

**Monitoring and Annual monitoring data
(January 2025)**

Table C1 *Data collected on a subset of Matted Flax-lilies located within the permanent monitoring quadrats established for the program during Event 15, 17 January 2025 (Batch 1, Cherry Street Reserve)*

| Monitoring Event | Plant Number | Status | Condition | Evidence of Herbivory | Buds | Flowering | Fruiting | Plant Basal Diam (cm) | No ramets | Max Leaf Length cm |
|------------------|--------------|--------|-----------|-----------------------|------|-----------|----------|-----------------------|-----------|--------------------|
| Quadrat 1 | | | | | | | | | | |
| 15 | 22_001 | Alive | Moderate | No | No | - | - | 18 | 3 | 25 |
| 15 | 20_002 | Dead | - | - | - | - | - | - | - | - |
| 15 | 23_002 | Alive | Moderate | No | No | - | - | 7 | 2 | 27 |
| 15 | 21_002 | Dead | - | - | - | - | - | - | - | - |
| 15 | 01_002 | Alive | Poor | No | No | - | Late | 18 | 5 | 17 |
| 15 | 02_003 | Alive | Good | No | No | - | - | 58 | 16 | 47 |
| Quadrat 2 | | | | | | | | | | |
| 15 | 27_003 | Dead | - | - | - | - | - | - | - | - |
| 15 | 26_003 | Dead | - | - | - | - | - | - | - | - |
| 15 | 25_003 | Dead | - | - | - | - | - | - | - | - |
| 15 | 22_004 | Alive | Moderate | No | No | - | - | 11 | 2 | 23 |
| 15 | 20_004 | Alive | Good | No | No | - | - | 28 | 2 | 32 |
| 15 | 23_004 | Alive | Good | No | No | - | - | 22 | 3 | 31 |
| 15 | 24_001 | Alive | Poor | Yes | No | - | - | 1 | 1 | 19 |
| 15 | 03_003 | Dead | - | - | - | - | - | - | - | - |
| 15 | 19_003 | Alive | Moderate | No | No | - | - | 3 | 2 | 16 |

Table C2 *Data collected on a subset of Matted Flax-lilies located within the permanent monitoring quadrats established for the program during Event 12, 12 December 2024 (Batch 2, Gresswell Forest Nature Conservation Reserve) and 17 January 2025 (Batch 2, Cherry Street Reserve)*

| Monitoring Event | Plant Number | Status | Condition | Evidence of Herbivory | Buds | Flowering | Fruiting | Plant Basal Diam cm | No ramets | Max Leaf Length cm |
|------------------|--------------|--------|-----------|-----------------------|------|-----------|----------|---------------------|-----------|--------------------|
| Quadrat 3 | | | | | | | | | | |
| 12 | 055-004 | Alive | Moderate | No | No | - | - | 10 | 5 | 27 |
| 12 | 064-002 | Alive | Good | No | Yes | Early | Mid | 20 | 3 | 26 |
| 12 | 068-004 | Alive | Good | No | No | - | - | 27 | 5 | 26.5 |
| 12 | 082-001 | Alive | Good | Yes | No | - | - | 15 | 5 | 20 |
| 12 | 075-001 | Alive | Good | No | No | - | Mid | 20 | 3 | 23.5 |
| 12 | 091-003 | Alive | Good | No | No | - | - | 20 | 10 | 30 |
| Quadrat 4 | | | | | | | | | | |
| 12 | 039-002 | Alive | Good | No | No | - | - | 19 | 5 | 20 |
| 12 | 093-004 | Alive | Good | No | Yes | Mid | Mid | 20 | 11 | 36 |
| 12 | 106-001 | Alive | Good | No | No | Late | Mid | 20 | 5 | 29 |
| 12 | 121-001 | Alive | Good | No | No | Late | Mid | 9 | 3 | 35 |
| Quadrat 5 | | | | | | | | | | |
| 12 | 054-004 | Alive | Good | No | Yes | Early | - | 30 | 12 | 24 |
| 12 | 061-004 | Alive | Good | No | No | Late | Early | 12 | 4 | 28 |
| 12 | 111-002 | Alive | Good | No | No | - | - | 30 | 8 | 26 |
| 12 | 111-004 | Alive | Good | No | No | - | - | 20 | 7 | 23 |
| 12 | 113-004 | Alive | Good | No | No | - | - | 10 | 3 | 19 |
| Quadrat 6 | | | | | | | | | | |
| 12 | 028-002 | Alive | Moderate | No | No | - | - | 10 | 3 | 12 |
| 12 | 029-004 | Alive | Good | Yes | No | - | - | 14 | 9 | 13 |
| 12 | 030-004 | Alive | Good | No | No | - | - | 14 | 8 | 14 |
| 12 | 031-003 | Alive | Moderate | No | No | - | - | 16 | 3 | 14 |
| 12 | 033-003 | Alive | Good | Yes | No | - | - | 12 | 10 | 32 |

| Monitoring Event | Plant Number | Status | Condition | Evidence of Herbivory | Buds | Flowering | Fruiting | Plant Basal Diam cm | No ramets | Max Leaf Length cm |
|------------------|--------------|--------|-----------|-----------------------|------|-----------|----------|---------------------|-----------|--------------------|
| 12 | 036-003 | Alive | Good | No | No | - | - | 8 | 2 | 14 |
| 12 | 044-002 | Alive | Moderate | No | No | - | - | 15 | 7 | 17 |
| 12 | 058-002 | Alive | Poor | No | No | - | - | 13 | 2 | 7 |

Table C3 Data from all Batch 1 Matted Flax-lilies (108 individuals) recorded in Event 15 survey, 17 January 2025

| Monitoring Event | Plant Number | Status | Condition | Evidence of Herbivory | Buds | Flowering | Fruiting | Comment |
|------------------|--------------|--------|-----------|-----------------------|------|-----------|----------|---------------------------------------------------------------------------------|
| 15 | 25_002 | Dead | - | - | - | - | - | - |
| 15 | 27_004 | Alive | Good | No | No | - | - | - |
| 15 | 26_002 | Alive | Good | Yes | No | - | - | - |
| 15 | 03_004 | Dead | - | - | - | - | - | - |
| 15 | 11_004 | Alive | Good | Yes | No | - | - | No tag found but with flag |
| 15 | 10_003 | Alive | Good | Yes | No | - | - | The Matted Flax-lily heavily overgrown by grasses |
| 15 | 24_002 | Dead | - | - | - | - | - | - |
| 15 | 02_004 | Alive | Good | No | No | - | - | Soil around roots of the MFL plant has an ant nest but plant still very healthy |
| 15 | 01_004 | Alive | Moderate | No | No | - | - | - |
| 15 | 07_002 | Alive | Moderate | Yes | No | - | - | - |
| 15 | 27_003 | Dead | - | - | - | - | - | - |
| 15 | 26_003 | Dead | - | - | - | - | - | - |
| 15 | 25_003 | Dead | - | - | - | - | - | - |
| 15 | 22_004 | Alive | Moderate | No | No | - | - | - |
| 15 | 21_003 | Alive | Good | No | No | - | - | - |
| 15 | 20_004 | Alive | Good | No | No | - | - | - |
| 15 | 23_004 | Alive | Good | No | No | - | - | - |
| 15 | 24_001 | Alive | Poor | Yes | No | - | - | - |

| Monitoring Event | Plant Number | Status | Condition | Evidence of Herbivory | Buds | Flowering | Fruiting | Comment |
|------------------|--------------|--------|-----------|-----------------------|------|-----------|----------|--------------------------------------------------------------------------------------------|
| 15 | 03_003 | Dead | - | - | - | - | - | - |
| 15 | 19_003 | Alive | Moderate | No | No | - | - | - |
| 15 | 18_004 | Alive | Good | No | No | - | - | - |
| 15 | 17_002 | Alive | Poor | No | No | - | - | Empty inflorescence |
| 15 | 16_003 | Alive | Poor | No | No | - | - | - |
| 15 | 14_004 | Alive | Moderate | No | No | - | - | - |
| 15 | 15_001 | Alive | Moderate | No | No | - | - | - |
| 15 | 13_004 | Alive | Moderate | Yes | No | - | - | - |
| 15 | 06_004 | Alive | Moderate | No | No | - | - | - |
| 15 | 12_001 | Dead | - | - | - | - | - | - |
| 15 | 11_001 | Dead | - | - | - | - | - | - |
| 15 | 10_004 | Alive | Moderate | No | No | - | - | - |
| 15 | 18_002 | Dead | - | - | - | - | - | - |
| 15 | 14_002 | Alive | Moderate | No | No | - | - | Thick Kangaroo Grass around MFL and saplings of <i>Eucalyptus</i> sp. are growing near MFL |
| 15 | 15_003 | Dead | - | - | - | - | - | - |
| 15 | 17_004 | Dead | - | - | - | - | - | - |
| 15 | 08_004 | Alive | Good | No | No | - | - | Thick Kangaroo Grass around MFL |
| 15 | 13_003 | Alive | Good | No | No | - | - | Thick Kangaroo Grass around MFL |
| 15 | 09_002 | Alive | Good | No | No | - | - | Thick Kangaroo Grass around MFL |
| 15 | 12_004 | Alive | Poor | No | No | - | - | Thick Kangaroo Grass around MFL |
| 15 | 11_002 | Alive | Good | No | No | - | Late | - |
| 15 | 18_003 | Dead | - | - | - | - | - | Saplings of <i>Eucalyptus</i> sp. are growing near MFL |
| 15 | 19_002 | Dead | - | - | - | - | - | Saplings of <i>Eucalyptus</i> sp. are growing near MFL |
| 15 | 05_001 | Alive | Moderate | Yes | No | - | - | Saplings of <i>Eucalyptus</i> sp. are growing near MFL |
| 15 | 16_002 | Alive | Moderate | No | No | - | - | - |

| Monitoring Event | Plant Number | Status | Condition | Evidence of Herbivory | Buds | Flowering | Fruiting | Comment |
|------------------|--------------|--------|-----------|-----------------------|------|-----------|----------|--------------------------------------------------------|
| 15 | 15_004 | Dead | - | - | - | - | - | - |
| 15 | 14_001 | Alive | Moderate | No | No | - | Late | - |
| 15 | 10_002 | Alive | Poor | Yes | No | - | Late | Leaves of the MFL were dried |
| 15 | 13_002 | Alive | Poor | No | No | - | - | - |
| 15 | 12_003 | Alive | Moderate | No | No | - | - | Saplings of <i>Eucalyptus</i> sp. are growing near MFL |
| 15 | 11_003 | Alive | Poor | No | No | - | Late | - |
| 15 | 09_004 | Alive | Poor | Yes | No | - | Late | Leaves of the MFL were dried |
| 15 | 07_001 | Alive | Poor | Yes | No | - | - | Leaves of the MFL were dried |
| 15 | 05_003 | Alive | Poor | No | No | - | - | Leaves of the MFL were dried |
| 15 | 06_002 | Dead | - | - | - | - | - | - |
| 15 | 08_001 | Alive | Poor | No | No | - | Late | Most of the leaves of the MFL were dried |
| 15 | 03_001 | Alive | Good | No | No | - | - | One small ramet present on the plant |
| 15 | 05_004 | Alive | Moderate | No | No | - | - | - |
| 15 | 04_001 | Alive | Moderate | Yes | No | - | - | - |
| 15 | 01_001 | Alive | Poor | No | No | - | - | - |
| 15 | 02_001 | Alive | Good | Yes | No | - | - | - |
| 15 | 08_002 | Alive | Moderate | No | No | - | - | - |
| 15 | 06_003 | Alive | Good | No | No | - | - | Needs hand weeding |
| 15 | 07_003 | Alive | Good | No | No | - | - | - |
| 15 | 09_001 | Alive | Good | No | No | - | Early | - |
| 15 | 04_002 | Alive | Moderate | Yes | No | - | - | - |
| 15 | 08_003 | Alive | Poor | No | No | - | - | - |
| 15 | 03_002 | Alive | Moderate | No | No | - | - | - |
| 15 | 02_002 | Alive | Moderate | No | No | - | - | - |
| 15 | 07_004 | Dead | - | - | - | - | - | - |
| 15 | 06_001 | Alive | Moderate | No | No | - | - | - |

| Monitoring Event | Plant Number | Status | Condition | Evidence of Herbivory | Buds | Flowering | Fruiting | Comment |
|------------------|--------------|-----------|-----------|-----------------------|------|-----------|----------|--------------------------------------------------------------------------------------------|
| 15 | 04_003 | Alive | Moderate | No | No | - | - | - |
| 15 | 09_003 | Alive | Moderate | No | No | - | - | - |
| 15 | 10_001 | Alive | Moderate | No | No | - | - | - |
| 15 | 05_002 | Alive | Good | Yes | No | - | - | - |
| 15 | 01_003 | Alive | Poor | Yes | No | - | Early | - |
| 15 | 22_001 | Alive | Moderate | No | No | - | - | Thick Kangaroo Grass around MFL and saplings of <i>Eucalyptus</i> sp. are growing near MFL |
| 15 | 20_002 | Dead | - | - | - | - | - | Thick Kangaroo Grass around MFL |
| 15 | 23_002 | Alive | Moderate | No | No | - | - | - |
| 15 | 21_002 | Dead | | | | - | - | Thick Kangaroo Grass around MFL |
| 15 | 01_002 | Alive | Poor | No | No | - | Late | - |
| 15 | 02_003 | Alive | Good | No | No | - | - | - |
| 15 | 04_004 | Alive | Good | No | No | - | - | - |
| 15 | 12_002 | Alive | Good | No | No | - | - | - |
| 15 | 17_001 | Alive | Moderate | No | No | - | - | - |
| 15 | 19_004 | Alive | Good | No | No | - | - | - |
| 15 | 20_003 | Alive | Good | No | No | - | - | - |
| 15 | 21_004 | Alive | Good | No | No | - | - | - |
| 15 | 22_003 | Dead | - | - | - | - | - | - |
| 15 | 23_003 | Alive | Good | No | No | - | - | - |
| 15 | 24_004 | Alive | Good | Yes | No | - | - | Overgrown by adjacent grass |
| 15 | 25_001 | Dead | - | - | - | - | - | - |
| 15 | 26_001 | Alive | Poor | Yes | No | - | - | - |
| 15 | 27_001 | Dead | - | - | - | - | - | - |
| 15 | 25_004 | Alive | Good | No | No | - | - | - |
| 15 | 24_003 | Not found | - | - | - | - | - | - |

| Monitoring Event | Plant Number | Status | Condition | Evidence of Herbivory | Buds | Flowering | Fruiting | Comment |
|------------------|--------------|-----------|-----------|-----------------------|------|-----------|----------|--------------------------------|
| 15 | 26_004 | Dead | - | - | - | - | - | - |
| 15 | 27_002 | Dead | - | - | - | - | - | - |
| 15 | 21_001 | Alive | Good | Yes | No | - | Late | - |
| 15 | 20_001 | Alive | Good | Yes | No | - | - | - |
| 15 | 22_002 | Alive | Good | No | No | - | - | - |
| 15 | 23_001 | Alive | Good | Yes | No | - | - | - |
| 15 | 19_001 | Alive | Good | No | No | - | - | - |
| 15 | 16_001 | Dead | - | - | - | - | - | - |
| 15 | 17_003 | Not found | - | - | - | - | - | - |
| 15 | 14_003 | Alive | Good | No | No | - | - | Sunken soil around base of MFL |
| 15 | 13_001 | Alive | Poor | No | No | - | - | - |
| 15 | 15_002 | Dead | - | - | - | - | - | - |
| 15 | 16_004 | Alive | Good | No | No | - | Late | - |
| 15 | 18_001 | Dead | - | - | No | - | - | - |

Table C4 Data from all Batch 2 Matted Flax-lilies (420 individuals) recorded in Event 12, 12 December 2024 (Batch 2, Gresswell Forest Nature Conservation Reserve) and 17 January 2025 (Batch 2, Cherry Street Reserve)

| Monitoring Event | Plant Number | Status | Condition | Evidence of Herbivory | Buds | Flowering | Fruiting | Comment | Site |
|------------------|--------------|-----------|-----------|-----------------------|------|-----------|----------|------------------------------------------|-----------|
| 12 | 028-001 | Alive | Poor | No | No | - | - | - | Cherry |
| 12 | 028-002 | Alive | Moderate | No | No | - | - | - | Cherry |
| 12 | 028-003 | Dead | - | No | No | - | - | - | Gresswell |
| 12 | 028-004 | Alive | Good | No | No | - | - | - | Cherry |
| 12 | 029-001 | Alive | Good | No | No | - | - | Broken tag | Cherry |
| 12 | 029-002 | Alive | Good | No | No | - | - | - | Cherry |
| 12 | 029-003 | Alive | Moderate | No | No | - | - | - | Cherry |
| 12 | 029-004 | Alive | Good | Yes | No | - | - | - | Cherry |
| 12 | 030-001 | Alive | Good | No | No | - | - | - | Cherry |
| 12 | 030-002 | Alive | Moderate | Yes | No | - | - | - | Cherry |
| 12 | 030-003 | Not found | - | No | No | - | - | Planted next to remnant Matted Flax-lily | Gresswell |
| 12 | 030-004 | Alive | Good | No | No | - | - | - | Cherry |
| 12 | 031-001 | Dead | - | No | No | - | - | - | Gresswell |
| 12 | 031-002 | Dead | - | No | No | - | - | - | Gresswell |
| 12 | 031-003 | Alive | Moderate | No | No | - | - | - | Cherry |
| 12 | 031-004 | Dead | - | No | No | - | - | Found tag but no evidence of plant | Gresswell |
| 12 | 032-001 | Dead | - | No | No | - | - | Found tag but no evidence of plant | Gresswell |
| 12 | 032-002 | Alive | Good | No | No | - | - | - | Cherry |
| 12 | 032-003 | Alive | Good | No | No | - | - | - | Cherry |
| 12 | 032-004 | Alive | Moderate | No | No | - | - | - | Cherry |
| 12 | 033-001 | Alive | Moderate | Yes | No | - | - | - | Cherry |
| 12 | 033-002 | Alive | Good | Yes | No | - | - | Matted Flax-lily leaf tops chewed off | Cherry |
| 12 | 033-003 | Alive | Good | Yes | No | - | - | - | Cherry |
| 12 | 033-004 | Alive | Moderate | Yes | No | - | - | - | Cherry |

| Monitoring Event | Plant Number | Status | Condition | Evidence of Herbivory | Buds | Flowering | Fruiting | Comment | Site |
|------------------|--------------|--------|-----------|-----------------------|------|-----------|----------|---------------------------------------------|-----------|
| 12 | 034-001 | Dead | - | No | No | - | - | Found tag but no evidence of plant | Gresswell |
| 12 | 034-002 | Alive | Good | Yes | No | - | - | - | Cherry |
| 12 | 034-003 | Alive | Good | Yes | No | - | - | - | Cherry |
| 12 | 034-004 | Alive | Moderate | No | No | - | - | New ramets emerging around Matted Flax-lily | Cherry |
| 12 | 035-001 | Alive | Good | No | Yes | Early | - | - | Cherry |
| 12 | 035-002 | Alive | Moderate | No | No | - | - | - | Cherry |
| 12 | 035-003 | Dead | - | No | No | - | - | - | Gresswell |
| 12 | 035-004 | Dead | - | No | No | - | - | - | Gresswell |
| 12 | 036-001 | Alive | Good | No | No | - | - | - | Cherry |
| 12 | 036-002 | Alive | Good | Yes | No | - | - | - | Cherry |
| 12 | 036-003 | Alive | Good | No | No | - | - | - | Cherry |
| 12 | 036-004 | Alive | Good | Yes | No | - | - | - | Cherry |
| 12 | 037-001 | Alive | Good | No | No | - | - | - | Cherry |
| 12 | 037-002 | Alive | Good | No | No | - | - | - | Cherry |
| 12 | 037-003 | Alive | Poor | No | No | - | - | New sprouts emerging from Matted Flax-lily | Cherry |
| 12 | 037-004 | Alive | Poor | No | No | - | - | - | Cherry |
| 12 | 038-001 | Alive | Moderate | No | No | - | - | - | Cherry |
| 12 | 038-002 | Alive | Good | No | No | - | - | - | Cherry |
| 12 | 038-003 | Dead | - | No | No | - | - | - | Gresswell |
| 12 | 038-004 | Dead | - | No | No | - | - | - | Gresswell |
| 12 | 039-001 | Alive | Good | No | No | - | - | - | Cherry |
| 12 | 039-002 | Alive | Good | No | No | - | - | - | Cherry |
| 12 | 039-003 | Dead | - | No | No | - | - | - | Gresswell |
| 12 | 039-004 | Dead | - | No | No | - | - | Found tag but no evidence of plant | Gresswell |
| 12 | 040-001 | Alive | Poor | No | No | - | - | - | Cherry |
| 12 | 040-002 | Alive | Good | No | No | - | - | - | Cherry |

| Monitoring Event | Plant Number | Status | Condition | Evidence of Herbivory | Buds | Flowering | Fruiting | Comment | Site |
|------------------|--------------|--------|-----------|-----------------------|------|-----------|----------|--------------------------------------------|-----------|
| 12 | 040-003 | Alive | Good | Yes | No | - | - | - | Cherry |
| 12 | 040-004 | Alive | Good | No | No | - | - | - | Cherry |
| 12 | 041-001 | Alive | Good | No | No | - | - | - | Cherry |
| 12 | 041-002 | Dead | - | No | No | - | - | No attached leaves above ground. Dormant | Gresswell |
| 12 | 041-003 | Alive | Moderate | No | No | - | - | Sunken earth around Matted Flax-lily | Cherry |
| 12 | 041-004 | Alive | Good | No | No | - | - | - | Cherry |
| 12 | 042-001 | Alive | Good | No | No | - | - | - | Cherry |
| 12 | 042-002 | Alive | Good | No | No | - | - | - | Cherry |
| 12 | 042-003 | Alive | Good | No | No | - | - | - | Cherry |
| 12 | 042-004 | Alive | Good | No | No | - | - | Growing through <i>Briza minor</i> | Cherry |
| 12 | 043-001 | Alive | Good | No | No | - | - | - | Cherry |
| 12 | 043-002 | Alive | Good | No | No | - | - | - | Cherry |
| 12 | 043-003 | Alive | Good | No | No | Mid | Mid | - | Cherry |
| 12 | 043-004 | Dead | - | No | No | - | - | Found tag but no evidence of plant | Gresswell |
| 12 | 044-001 | Alive | Good | No | No | - | - | - | Cherry |
| 12 | 044-002 | Alive | Moderate | No | No | - | - | - | Gresswell |
| 12 | 044-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 044-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 045-001 | Alive | Good | No | No | - | - | New sprouts emerging from Matted Flax-lily | Gresswell |
| 12 | 045-002 | Dead | - | No | No | - | - | - | Gresswell |
| 12 | 045-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 045-004 | Alive | Moderate | No | No | - | - | - | Gresswell |
| 12 | 046-001 | Alive | Poor | No | No | - | - | The Matted Flax-lily has dried leaves | Gresswell |
| 12 | 046-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 046-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 046-004 | Alive | Good | No | No | - | - | - | Gresswell |

| Monitoring Event | Plant Number | Status | Condition | Evidence of Herbivory | Buds | Flowering | Fruiting | Comment | Site |
|------------------|--------------|--------|-----------|-----------------------|------|-----------|----------|-------------------------------------------------------|-----------|
| 12 | 047-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 047-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 047-003 | Alive | Good | No | No | - | Mid | Sunken earth around Matted Flax-lily | Gresswell |
| 12 | 047-004 | Alive | Good | No | No | - | Mid | - | Gresswell |
| 12 | 048-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 048-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 048-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 048-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 049-001 | Alive | Good | No | No | - | - | Grasses growing through Matted Flax-lily | Gresswell |
| 12 | 049-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 049-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 049-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 050-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 050-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 050-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 050-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 051-001 | Alive | Good | No | No | Late | Mid | - | Gresswell |
| 12 | 051-002 | Alive | Good | No | No | - | - | Animal burrow near Matted Flax-lily, possibly Echidna | Gresswell |
| 12 | 051-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 051-004 | Alive | Good | No | Yes | Late | - | - | Gresswell |
| 12 | 052-001 | Dead | - | No | No | - | - | No Matted Flax-lily material found above ground | Gresswell |
| 12 | 052-002 | Dead | - | No | No | - | - | - | Gresswell |
| 12 | 052-003 | Alive | Good | No | Yes | Early | - | - | Gresswell |
| 12 | 052-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 053-001 | Alive | Good | No | No | - | - | The Matted Flax-lily tag needs replacing | Gresswell |

| Monitoring Event | Plant Number | Status | Condition | Evidence of Herbivory | Buds | Flowering | Fruiting | Comment | Site |
|------------------|--------------|--------|-----------|-----------------------|------|-----------|----------|---------------------------------------------------------|-----------|
| 12 | 053-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 053-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 053-004 | Alive | Good | No | Yes | - | - | - | Gresswell |
| 12 | 054-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 054-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 054-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 054-004 | Alive | Good | No | Yes | Early | - | - | Gresswell |
| 12 | 055-001 | Alive | Good | No | No | - | Mid | - | Gresswell |
| 12 | 055-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 055-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 055-004 | Alive | Moderate | No | No | - | - | - | Gresswell |
| 12 | 056-001 | Alive | Moderate | No | No | - | - | - | Gresswell |
| 12 | 056-002 | Alive | Good | No | No | Late | Mid | - | Gresswell |
| 12 | 056-003 | Alive | Moderate | No | No | - | Mid | - | Gresswell |
| 12 | 056-004 | Alive | Good | No | No | - | - | Rubus sp. regrowing near Matted Flax-lily | Gresswell |
| 12 | 057-001 | Dead | - | No | No | - | - | Matted Flax-lily dug up completely. Possibly by rabbit | Gresswell |
| 12 | 057-002 | Alive | Moderate | No | No | - | - | New sprouts growing out of Matted Flax-lily | Gresswell |
| 12 | 057-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 057-004 | Alive | Good | No | No | - | - | <i>Rytidosperma</i> sp. growing around Matted Flax-lily | Gresswell |
| 12 | 058-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 058-002 | Alive | Poor | No | No | - | - | - | Gresswell |
| 12 | 058-003 | Alive | Good | No | Yes | Mid | Mid | - | Gresswell |
| 12 | 058-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 059-001 | Alive | Good | No | No | - | Late | - | Gresswell |
| 12 | 059-002 | Alive | Good | No | No | - | - | - | Gresswell |

| Monitoring Event | Plant Number | Status | Condition | Evidence of Herbivory | Buds | Flowering | Fruiting | Comment | Site |
|------------------|--------------|--------|-----------|-----------------------|------|-----------|----------|---------------------------------------------|-----------|
| 12 | 059-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 059-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 060-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 060-002 | Alive | Good | No | No | Mid | Mid | - | Gresswell |
| 12 | 060-003 | Alive | Moderate | No | No | - | - | - | Gresswell |
| 12 | 060-004 | Alive | Good | No | No | - | - | Matted Flax-lily is a small sprout | Gresswell |
| 12 | 061-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 061-002 | Alive | Good | No | Yes | - | Mid | - | Gresswell |
| 12 | 061-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 061-004 | Alive | Good | No | No | Late | Early | - | Gresswell |
| 12 | 062-001 | Alive | Good | No | Yes | Late | Mid | - | Gresswell |
| 12 | 062-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 062-003 | Alive | Good | No | Yes | Early | - | - | Gresswell |
| 12 | 062-004 | Alive | Good | No | Yes | - | - | - | Gresswell |
| 12 | 063-001 | Alive | Good | No | No | - | - | New sprouts growing out of Matted Flax-lily | Gresswell |
| 12 | 063-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 063-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 063-004 | Alive | Poor | No | No | - | - | - | Gresswell |
| 12 | 064-001 | Alive | Good | No | No | Late | Mid | - | Gresswell |
| 12 | 064-002 | Alive | Good | No | Yes | Early | Mid | - | Gresswell |
| 12 | 064-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 064-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 065-001 | Alive | Good | No | Yes | - | - | - | Gresswell |
| 12 | 065-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 065-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 065-004 | Alive | Moderate | No | No | - | - | - | Gresswell |

| Monitoring Event | Plant Number | Status | Condition | Evidence of Herbivory | Buds | Flowering | Fruiting | Comment | Site |
|------------------|--------------|--------|-----------|-----------------------|------|-----------|----------|-------------------------------------------|-----------|
| 12 | 066-001 | Alive | Good | No | Yes | Early | - | - | Gresswell |
| 12 | 066-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 066-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 066-004 | Alive | Good | No | No | Late | Mid | - | Gresswell |
| 12 | 067-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 067-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 067-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 067-004 | Alive | Good | No | Yes | Mid | Mid | - | Gresswell |
| 12 | 068-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 068-002 | Alive | Good | No | No | Late | Mid | - | Gresswell |
| 12 | 068-003 | Alive | Good | No | No | Early | Mid | - | Gresswell |
| 12 | 068-004 | Alive | Good | No | No | - | - | Sunken earth around Matted Flax-lily | Gresswell |
| 12 | 069-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 069-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 069-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 069-004 | Alive | Moderate | No | No | - | - | - | Gresswell |
| 12 | 070-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 070-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 070-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 070-004 | Alive | Good | No | No | - | - | Sunken earth around Matted Flax-lily | Gresswell |
| 12 | 071-001 | Alive | Good | No | No | - | - | Matted Flax-lily tag is broken | Gresswell |
| 12 | 071-002 | Alive | Good | No | No | - | - | Matted Flax-lily tag is about to fall off | Gresswell |
| 12 | 071-003 | Alive | Moderate | No | No | - | - | - | Gresswell |
| 12 | 071-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 072-001 | Alive | Good | No | No | - | Mid | - | Gresswell |
| 12 | 072-002 | Alive | Good | No | Yes | - | Mid | - | Gresswell |

| Monitoring Event | Plant Number | Status | Condition | Evidence of Herbivory | Buds | Flowering | Fruiting | Comment | Site |
|------------------|--------------|--------|-----------|-----------------------|------|-----------|----------|---------------------------------------------------------|-----------|
| 12 | 072-003 | Alive | Good | No | No | Late | Mid | - | Gresswell |
| 12 | 072-004 | Alive | Good | No | No | - | Mid | - | Gresswell |
| 12 | 073-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 073-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 073-003 | Alive | Good | No | No | Mid | - | - | Gresswell |
| 12 | 073-004 | Dead | - | No | No | - | - | - | Gresswell |
| 12 | 074-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 074-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 074-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 074-004 | Alive | Good | No | No | - | Mid | - | Gresswell |
| 12 | 075-001 | Alive | Good | No | No | - | Mid | <i>Rytidosperma</i> sp. growing around Matted Flax-lily | Gresswell |
| 12 | 075-002 | Alive | Good | No | Yes | Mid | - | Rabbit burrow next to Matted Flax-lily | Gresswell |
| 12 | 075-003 | Alive | Moderate | No | No | - | - | - | Gresswell |
| 12 | 075-004 | Alive | Good | No | Yes | Early | - | - | Gresswell |
| 12 | 076-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 076-002 | Alive | Good | No | No | Late | Mid | - | Gresswell |
| 12 | 076-003 | Alive | Good | No | Yes | - | Mid | - | Gresswell |
| 12 | 076-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 077-001 | Alive | Good | No | No | - | Mid | - | Gresswell |
| 12 | 077-002 | Alive | Good | No | Yes | Early | Mid | - | Gresswell |
| 12 | 077-003 | Dead | - | No | No | - | - | - | Gresswell |
| 12 | 077-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 078-001 | Alive | Good | No | No | Early | - | - | Gresswell |
| 12 | 078-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 078-003 | Alive | Good | No | No | - | - | - | Gresswell |

| Monitoring Event | Plant Number | Status | Condition | Evidence of Herbivory | Buds | Flowering | Fruiting | Comment | Site |
|------------------|--------------|--------|-----------|-----------------------|------|-----------|----------|--------------------------------------|-----------|
| 12 | 078-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 079-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 079-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 079-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 079-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 080-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 080-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 080-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 080-004 | Alive | Good | No | No | Late | Mid | - | Gresswell |
| 12 | 081-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 081-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 081-003 | Alive | Moderate | No | No | - | - | - | Gresswell |
| 12 | 081-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 082-001 | Alive | Good | Yes | No | - | - | Matted Flax-lily has small ramets | Gresswell |
| 12 | 082-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 082-003 | Dead | - | No | No | - | - | - | Gresswell |
| 12 | 082-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 083-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 083-002 | Alive | Moderate | No | No | - | Late | - | Gresswell |
| 12 | 083-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 083-004 | Alive | Good | No | Yes | Early | - | - | Gresswell |
| 12 | 084-001 | Alive | Good | No | No | - | Mid | - | Gresswell |
| 12 | 084-002 | Alive | Good | No | No | - | - | Sunken earth around Matted Flax-lily | Gresswell |
| 12 | 084-003 | Alive | Good | No | No | Late | Mid | - | Gresswell |
| 12 | 084-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 085-001 | Alive | Good | No | No | - | - | - | Gresswell |

| Monitoring Event | Plant Number | Status | Condition | Evidence of Herbivory | Buds | Flowering | Fruiting | Comment | Site |
|------------------|--------------|--------|-----------|-----------------------|------|-----------|----------|--------------------------------------|-----------|
| 12 | 085-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 085-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 085-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 086-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 086-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 086-003 | Alive | Moderate | Yes | No | - | - | - | Gresswell |
| 12 | 086-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 087-001 | Alive | Good | No | No | - | - | Rabbit burrow near Matted Flax-lily | Gresswell |
| 12 | 087-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 087-003 | Dead | - | No | No | - | - | No Matted Flax-lily material found | Gresswell |
| 12 | 087-004 | Alive | Good | No | Yes | Mid | - | - | Gresswell |
| 12 | 088-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 088-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 088-003 | Alive | Good | No | No | Late | Mid | Sunken earth around Matted Flax-lily | Gresswell |
| 12 | 088-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 089-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 089-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 089-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 089-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 090-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 090-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 090-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 090-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 091-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 091-002 | Alive | Moderate | No | No | - | - | - | Gresswell |
| 12 | 091-003 | Alive | Good | No | No | - | - | Growing through <i>Briza minor</i> | Gresswell |

| Monitoring Event | Plant Number | Status | Condition | Evidence of Herbivory | Buds | Flowering | Fruiting | Comment | Site |
|------------------|--------------|--------|-----------|-----------------------|------|-----------|----------|---------------------------------------------------------|-----------|
| 12 | 091-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 092-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 092-002 | Alive | Moderate | No | No | - | - | - | Gresswell |
| 12 | 092-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 092-004 | Alive | Good | No | No | - | - | Matted Flax-lily is near an old small stump | Gresswell |
| 12 | 093-001 | Alive | Good | No | Yes | Mid | Mid | - | Gresswell |
| 12 | 093-002 | Alive | Good | No | No | Late | Mid | - | Gresswell |
| 12 | 093-003 | Alive | Good | No | No | - | Mid | - | Gresswell |
| 12 | 093-004 | Alive | Good | No | Yes | Mid | Mid | - | Gresswell |
| 12 | 094-001 | Alive | Good | No | No | - | - | Sunken earth around Matted Flax-lily | Gresswell |
| 12 | 094-002 | Alive | Good | No | No | - | Late | - | Gresswell |
| 12 | 094-003 | Alive | Good | No | No | Late | Mid | - | Gresswell |
| 12 | 094-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 095-001 | Alive | Moderate | No | No | - | - | - | Gresswell |
| 12 | 095-002 | Alive | Good | No | No | Late | Mid | - | Gresswell |
| 12 | 095-003 | Alive | Good | No | No | - | Mid | <i>Rytidosperma</i> sp. growing around Matted Flax-lily | Gresswell |
| 12 | 095-004 | Alive | Moderate | No | No | - | - | - | Gresswell |
| 12 | 096-001 | Alive | Good | No | No | Late | Mid | Sunken earth around Matted Flax-lily | Gresswell |
| 12 | 096-002 | Alive | Good | No | Yes | Early | - | - | Gresswell |
| 12 | 096-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 096-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 097-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 097-002 | Alive | Good | No | No | Mid | Mid | - | Gresswell |
| 12 | 097-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 097-004 | Alive | Good | No | No | - | - | - | Gresswell |

| Monitoring Event | Plant Number | Status | Condition | Evidence of Herbivory | Buds | Flowering | Fruiting | Comment | Site |
|------------------|--------------|--------|-----------|-----------------------|------|-----------|----------|-------------------------------------------------------------------------------------------------|-----------|
| 12 | 098-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 098-002 | Alive | Good | No | No | - | - | Animal burrow near Matted Flax-lily | Gresswell |
| 12 | 098-003 | Alive | Poor | No | No | - | - | Sprout | Gresswell |
| 12 | 098-004 | Alive | Good | No | No | - | - | <i>Rytidosperma</i> sp and <i>Sonchus</i> sp growing around Matted Flax-lily | Gresswell |
| 12 | 099-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 099-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 099-003 | Alive | Good | No | No | - | - | <i>Rytidosperma</i> sp growing around Matted Flax-lily | Gresswell |
| 12 | 099-004 | Alive | Poor | No | No | - | - | Animal burrow near Matted Flax-lily | Gresswell |
| 12 | 100-001 | Alive | Good | No | No | - | - | The Matted Flax-lily tag is broken and needs replacement | Gresswell |
| 12 | 100-002 | Alive | Good | No | No | Late | Mid | - | Gresswell |
| 12 | 100-003 | Alive | Good | No | No | - | - | Sunken earth around Matted Flax-lily. <i>Rytidosperma</i> sp growing around Matted Flax-lily | Gresswell |
| 12 | 100-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 101-001 | Alive | Good | No | No | Late | Mid | - | Gresswell |
| 12 | 101-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 101-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 101-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 102-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 102-002 | Alive | Good | No | No | - | - | Sunken earth around Matted Flax-lily | Gresswell |
| 12 | 102-003 | Dead | - | No | No | - | - | - | Gresswell |
| 12 | 102-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 103-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 103-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 103-003 | Alive | Good | No | No | - | - | - | Gresswell |

| Monitoring Event | Plant Number | Status | Condition | Evidence of Herbivory | Buds | Flowering | Fruiting | Comment | Site |
|------------------|--------------|--------|-----------|-----------------------|------|-----------|----------|--------------------------------------------------------|-----------|
| 12 | 103-004 | Alive | Good | No | No | - | - | Matted Flax-lily has small sprouts only | Gresswell |
| 12 | 104-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 104-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 104-003 | Alive | Good | No | No | Late | Mid | - | Gresswell |
| 12 | 104-004 | Dead | - | No | No | - | - | - | Gresswell |
| 12 | 105-001 | Alive | Moderate | No | No | - | - | - | Gresswell |
| 12 | 105-002 | Alive | Good | No | No | Early | Mid | <i>Rytidosperma</i> sp growing around Matted Flax-lily | Gresswell |
| 12 | 105-003 | Alive | Good | No | Yes | Early | - | - | Gresswell |
| 12 | 105-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 106-001 | Alive | Good | No | No | Late | Mid | - | Gresswell |
| 12 | 106-002 | Alive | Good | No | No | Late | Mid | - | Gresswell |
| 12 | 106-003 | Alive | Good | No | Yes | Mid | Mid | - | Gresswell |
| 12 | 106-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 107-001 | Alive | Good | No | No | Mid | Mid | - | Gresswell |
| 12 | 107-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 107-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 107-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 108-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 108-002 | Alive | Moderate | No | No | - | - | - | Gresswell |
| 12 | 108-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 108-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 109-001 | Alive | Good | No | Yes | - | - | - | Gresswell |
| 12 | 109-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 109-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 109-004 | Alive | Good | No | No | - | - | - | Gresswell |

| Monitoring Event | Plant Number | Status | Condition | Evidence of Herbivory | Buds | Flowering | Fruiting | Comment | Site |
|------------------|--------------|--------|-----------|-----------------------|------|-----------|----------|--------------------------------------|-----------|
| 12 | 110-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 110-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 110-003 | Alive | Moderate | No | No | - | - | - | Gresswell |
| 12 | 110-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 111-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 111-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 111-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 111-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 112-001 | Alive | Good | No | No | Late | Mid | - | Gresswell |
| 12 | 112-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 112-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 112-004 | Alive | Moderate | No | No | - | - | Sunken earth around Matted Flax-lily | Gresswell |
| 12 | 113-001 | Alive | Good | No | No | - | - | Sunken earth around Matted Flax-lily | Gresswell |
| 12 | 113-002 | Alive | Moderate | No | No | - | - | - | Gresswell |
| 12 | 113-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 113-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 114-001 | Alive | Moderate | No | No | - | - | - | Gresswell |
| 12 | 114-002 | Alive | Poor | No | No | - | - | Matted Flax-lily has dried leaves | Gresswell |
| 12 | 114-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 114-004 | Alive | Good | No | No | Mid | Mid | - | Gresswell |
| 12 | 115-001 | Alive | Good | No | No | Mid | Mid | - | Gresswell |
| 12 | 115-002 | Alive | Moderate | No | No | - | - | - | Gresswell |
| 12 | 115-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 115-004 | Alive | Good | No | No | - | Mid | - | Gresswell |
| 12 | 116-001 | Alive | Good | No | Yes | Mid | Mid | Sunken earth around Matted Flax-lily | Gresswell |
| 12 | 116-002 | Alive | Good | No | No | - | - | - | Gresswell |

| Monitoring Event | Plant Number | Status | Condition | Evidence of Herbivory | Buds | Flowering | Fruiting | Comment | Site |
|------------------|--------------|--------|-----------|-----------------------|------|-----------|----------|-------------------------------------------------------------|-----------|
| 12 | 116-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 116-004 | Alive | Good | No | No | - | Mid | - | Gresswell |
| 12 | 117-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 117-002 | Alive | Good | No | No | Mid | - | - | Gresswell |
| 12 | 117-003 | Alive | Good | No | No | - | Early | - | Gresswell |
| 12 | 117-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 118-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 118-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 118-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 118-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 119-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 119-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 119-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 119-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 120-001 | Alive | Good | No | No | - | Mid | - | Gresswell |
| 12 | 120-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 120-003 | Dead | - | No | No | - | - | - | Gresswell |
| 12 | 120-004 | Alive | Moderate | No | No | - | - | - | Gresswell |
| 12 | 121-001 | Alive | Good | No | No | Late | Mid | - | Gresswell |
| 12 | 121-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 121-003 | Alive | Good | No | No | Early | Mid | - | Gresswell |
| 12 | 121-004 | Alive | Good | No | No | - | - | Sunken earth around Matted Flax-lily | Gresswell |
| 12 | 122-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 122-002 | Alive | Moderate | No | No | - | - | The Matted Flax-lily tag has broken off and is lying nearby | Gresswell |
| 12 | 122-003 | Alive | Good | No | Yes | Mid | Mid | - | Gresswell |

| Monitoring Event | Plant Number | Status | Condition | Evidence of Herbivory | Buds | Flowering | Fruiting | Comment | Site |
|------------------|--------------|--------|-----------|-----------------------|------|-----------|----------|--------------------------------------------------------------------------------------------|-----------|
| 12 | 122-004 | Alive | Moderate | No | No | Late | - | - | Gresswell |
| 12 | 123-001 | Alive | Moderate | No | No | - | - | - | Gresswell |
| 12 | 123-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 123-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 123-004 | Alive | Good | No | No | - | - | Matted Flax-lily is growing near <i>Acacia mearnsii</i> and <i>A. melanoxylon</i> saplings | Gresswell |
| 12 | 124-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 124-002 | Alive | Good | No | No | - | Mid | - | Gresswell |
| 12 | 124-003 | Alive | Good | No | No | - | Mid | - | Gresswell |
| 12 | 124-004 | Alive | Good | No | No | - | Mid | - | Gresswell |
| 12 | 125-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 125-002 | Alive | Good | No | No | - | Mid | The Matted Flax-lily is growing under an <i>Acacia</i> sp sapling | Gresswell |
| 12 | 125-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 125-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 126-001 | Alive | Good | No | Yes | Early | - | - | Gresswell |
| 12 | 126-002 | Alive | Good | No | No | - | Mid | - | Gresswell |
| 12 | 126-003 | Alive | Good | No | Yes | - | Mid | - | Gresswell |
| 12 | 126-004 | Alive | Good | No | No | Late | - | - | Gresswell |
| 12 | 127-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 127-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 127-003 | Alive | Good | No | No | Early | - | - | Gresswell |
| 12 | 127-004 | Alive | Good | No | Yes | Early | Mid | - | Gresswell |
| 12 | 128-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 128-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 128-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 128-004 | Alive | Good | No | No | - | Mid | - | Gresswell |

| Monitoring Event | Plant Number | Status | Condition | Evidence of Herbivory | Buds | Flowering | Fruiting | Comment | Site |
|------------------|--------------|--------|-----------|-----------------------|------|-----------|----------|---------------------------------------------------------------------------------|-----------|
| 12 | 129-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 129-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 129-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 129-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 130-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 130-002 | Alive | Good | No | Yes | - | Mid | - | Gresswell |
| 12 | 130-003 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 130-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 131-001 | Alive | Good | Yes | No | - | - | The Matted Flax-lily has small new ramets | Gresswell |
| 12 | 131-002 | Alive | Good | Yes | No | - | - | - | Gresswell |
| 12 | 131-003 | Alive | Moderate | Yes | No | - | - | The Matted Flax-lily tag needs replacement | Gresswell |
| 12 | 131-004 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 132-001 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 132-002 | Alive | Good | No | No | - | - | - | Gresswell |
| 12 | 132-003 | Dead | - | No | No | - | - | Found the Matted Flax-lily tag but no evidence of Matted Flax-lily above ground | Gresswell |
| 12 | 132-004 | Alive | Moderate | No | No | - | - | - | Gresswell |

Appendix D

Matted Flax-lily genetic survival

Table D1 *The number of living clones for each parent plant in Batch 1 as of January 2025*

| Parent plant | No surviving clones |
|--------------|---------------------|
| 1 | 4 |
| 2 | 4 |
| 3 | 2 |
| 4 | 4 |
| 5 | 4 |
| 6 | 3 |
| 7 | 3 |
| 8 | 4 |
| 9 | 4 |
| 10 | 4 |
| 11 | 3 |
| 12 | 3 |
| 13 | 4 |
| 14 | 4 |
| 15 | 1 |
| 16 | 3 |
| 17 | 2 |
| 18 | 1 |
| 19 | 3 |
| 20 | 3 |
| 21 | 3 |
| 22 | 3 |
| 23 | 4 |
| 24 | 2 |
| 25 | 1 |
| 26 | 2 |
| 27 | 1 |

Table D2 *The number of living clones for each parent plant in Batch 2 as of January 2025*

| Parent plant | No. surviving clones |
|--------------|----------------------|
| 28 | 4 |
| 29 | 4 |
| 30 | 3 |
| 31 | 2 |
| 32 | 3 |
| 33 | 3 |
| 34 | 3 |
| 35 | 3 |
| 36 | 2 |

| Parent plant | No. surviving clones |
|--------------|----------------------|
| 37 | 1 |
| 38 | 4 |
| 39 | 2 |
| 40 | 3 |
| 41 | 3 |
| 42 | 4 |
| 43 | 4 |
| 44 | 3 |
| 45 | 3 |
| 46 | 3 |
| 47 | 3 |
| 48 | 3 |
| 49 | 3 |
| 50 | 4 |
| 51 | 3 |
| 52 | 3 |
| 53 | 4 |
| 54 | 4 |
| 55 | 4 |
| 56 | 4 |
| 57 | 1 |
| 58 | 4 |
| 59 | 4 |
| 60 | 4 |
| 61 | 4 |
| 62 | 3 |
| 63 | 2 |
| 64 | 2 |
| 65 | 4 |
| 66 | 4 |
| 67 | 4 |
| 68 | 4 |
| 69 | 2 |
| 70 | 4 |
| 71 | 4 |
| 72 | 4 |
| 73 | 3 |
| 74 | 3 |
| 75 | 3 |
| 76 | 2 |
| 77 | 3 |

| Parent plant | No. surviving clones |
|--------------|----------------------|
| 78 | 3 |
| 79 | 2 |
| 80 | 4 |
| 81 | 4 |
| 82 | 3 |
| 83 | 4 |
| 84 | 4 |
| 85 | 4 |
| 86 | 3 |
| 87 | 3 |
| 88 | 4 |
| 89 | 3 |
| 90 | 3 |
| 91 | 4 |
| 92 | 4 |
| 93 | 4 |
| 94 | 3 |
| 95 | 4 |
| 96 | 4 |
| 97 | 4 |
| 98 | 3 |
| 99 | 2 |
| 100 | 3 |
| 101 | 4 |
| 102 | 4 |
| 103 | 4 |
| 104 | 4 |
| 105 | 4 |
| 106 | 2 |
| 107 | 3 |
| 108 | 3 |
| 109 | 4 |
| 110 | 2 |
| 111 | 4 |
| 112 | 4 |
| 113 | 2 |
| 114 | 4 |
| 115 | 4 |
| 116 | 4 |
| 117 | 4 |
| 118 | 4 |

| Parent plant | No. surviving clones |
|--------------|----------------------|
| 119 | 4 |
| 120 | 3 |
| 121 | 4 |
| 122 | 3 |
| 123 | 4 |
| 124 | 4 |
| 125 | 4 |
| 126 | 4 |
| 127 | 4 |
| 128 | 4 |
| 129 | 4 |
| 130 | 4 |
| 131 | 4 |
| 132 | 2 |



ghd.com

→ **The Power of Commitment**

Appendix C Studley Park Gum Annual Compliance Report



Studley Park Gum Annual EPBC Compliance Report 2024-2025

NEL-PW-GHD-9990-EEE-REP-0068

North East Link Program

Revision 0
13/06/2025

➔ **The Power of Commitment**



Conditions of use: This report has been prepared for North East Link Program, a division of the Victorian Infrastructure Delivery Authority, for the Minister of Environment and Water to address the requirements of the North East Link Project EPBC Approval 2018/8142 conditions. It is not intended to be used for, and should not be relied on, for any other purpose.

Security Classification: **OFFICIAL: Sensitive**

| | | | |
|------------------------|-----------------------|----------------------------------------------------------|-------------|
| Project name | | North East Link Technical Advisor | |
| Document title | | Studley Park Gum Annual EPBC Compliance Report 2024-2025 | |
| Project number | | 3135006 | |
| Document number | | NEL-PW-GHD-9990-EEE-REP-0068 | |
| Revision | Release Status | Comment | Date |
| 0 | Final | Issued for Use | 13/06/2025 |
| | | | |

Refer to the relevant GHD Work Verification Record for detail on Designer/Author/Originator, Checker, Verifier and Approver.

GHD Pty Ltd | ABN 39 008 488 373

180 Lonsdale Street, Level 9

Melbourne, Victoria 3000, Australia

T +61 3 8687 8000 | **F** +61 3 8732 7046 | **E** melmail@ghd.com | **ghd.com**

© GHD 2025

This document is and shall remain the property of GHD. The document may only be used for the purpose for which it was commissioned and in accordance with the Terms of Engagement for the commission. Unauthorised use of this document in any form whatsoever is prohibited.

Security Classification: **OFFICIAL: Sensitive**



The Power of Commitment

Executive Summary

Introduction

Ecological impact assessments identified that the North East Link Program project has the potential to impact *Eucalyptus x studleyensis* (Studley Park Gum, SPG), which is listed as 'Critically endangered' on the *Victorian Flora and Fauna Guarantee Act 1988* (FFG Act) threatened flora list. A condition of the project's approval was that a Studley Park Gum Management Framework must be developed, and corresponding management plan must be developed and implemented in consultation with DEECA.

The approved Studley Park Gum Management Framework (Emerge Associates and GHD, 2021) outlined the translocation plan to establish a new population of SPGs. A minimum of 104 trees was proposed as the target number of new Studley Park Gum trees, which equates to a replacement ratio of two translocated SPGs established for each individual tree likely to be impacted by the North East Link Program.

The recipient sites are Westerfolds Park (two areas) and Montpelier Reserve (one area). To achieve the establishment goal of at least 104 plants for the NELP, it was proposed that a total of 303 SPG saplings are initially planted at the recipient sites. This accounts for unavoidable plant loss, conservatively assuming a 70% survival rate for each year over a three-year period. A summary of the minimum number of translocated SPGs required to be alive at the end of each year of the monitoring program, to meet the 70% survival rate outlined in the Studley Park Gum Management Framework (Emerge Associates and GHD, 2021), is outlined below:

- Year 0 (2021): 303 saplings planted
- Year 1 (2022): 212 saplings (@ 70% survival)
- Year 2 (2023): 149 saplings (@ 70% survival)
- **Year 3 (2024): 104 SPGs established (planted in 2021 and having survived for at least three years)**

In May and June 2021, 364 SPG saplings were planted at the recipient sites. After an unexpectedly high rate of tree mortality due to waterlogging and high rainfall, 226 supplementary SPS saplings were planted between November 2021 and May 2022 to increase the chance that the establishment goal (104 plants surviving for at least three years) would be met.

This has led to the monitoring of SPG plants in two different stages of the monitoring program, depending on when they were planted. A decision was made to review the entire program based on the age of the youngest SPGs. As a result, this report marks the end of the third year of monitoring.

Annual Compliance results

Overall, the North East Link program is compliant with the EPBC 2018/8142 approval condition 6 and on track to meet the targets as described in the Studley Park Gum Management Framework (Emerge Associates and GHD, 2021).

In March 2025, there were 246 living SPGs recorded across the three sites, with 82% in good health. The proportion of plants in good health steadily increased over the course of the year. Average tree height increased from 248.3 cm in June 2024, to 343.4 cm in March 2025.

As of March 2025, noxious weeds were identified near six of the SPG trees. However, the management actions undertaken throughout the year to control these weeds and minimise their extent have made certain that they do not pose a risk to the success of the translocation program.

Future monitoring

The next monitoring event will take place in May 2025 and will mark three years since the last SPG plantings in May 2022. If there are at least 104 trees alive, the translocation program would be considered successful, and no further supplementary planting would be required. Monitoring is proposed to continue until May 2027, the end of the fifth year after the last planting, and if there are at least 104 established SPGs, the sites will be handed over to the management authority and no further monitoring will be required.

Contents

| | |
|------------------------------------------------------------|-----------|
| 1. Introduction | 1 |
| 1.1 Project background | 1 |
| 1.2 Approval conditions | 1 |
| 1.3 Purpose of this report | 1 |
| 1.4 Scope and limitations | 2 |
| 1.4.1 Scope | 2 |
| 1.4.2 Limitations | 2 |
| 1.5 Assumptions | 2 |
| 2. Translocation goal | 4 |
| 2.1 Recipient site locations | 4 |
| 3. Method | 6 |
| 3.1 Monitoring timing | 6 |
| 3.2 Method | 6 |
| 3.2.1 Site preparation | 6 |
| 3.2.2 Data | 7 |
| 3.2.3 Photo points | 8 |
| 3.2.4 Sample size | 8 |
| 3.3 Adaptive management | 9 |
| 4. Results – June 2024 to March 2025 | 10 |
| 4.1 Monitoring summary | 10 |
| 4.1.1 Weather | 10 |
| 4.1.2 SPG translocation goal | 11 |
| 4.1.3 Threats | 13 |
| 4.2 Recipient site results | 14 |
| 5. Adaptive management measures and recommendations | 20 |
| 5.1 Proposed maintenance and/or corrective actions | 20 |
| 6. Compliance assessment | 21 |
| 7. References | 24 |

Table index

| | | |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Table 1 | Photo point locations (Eastings and Northings) | 8 |
| Table 2 | Evaluation process for the recipient sites | 9 |
| Table 3 | Annual weather summary and long-term renovation from Viewbank from March 2024 to March 2025 | 10 |
| Table 4 | Number of translocated SPG trees from the original planting event (May and June of 2021) and the subsequent planting event (November 2021 - May 2022) that were identified as alive during the last year of monitoring | 11 |
| Table 5 | Analysis of the height difference in translocated SPGs between monitoring events conducted in June 2024 (Event 13) and March 2025 (Event 16) | 13 |
| Table 6 | Monitoring results: Quarterly monitoring results from June 2024 – March 2025 | 14 |
| Table 7 | EPBC 2018/8142 Approval Condition relevant to Studley Park Gums | 22 |
| Table 8 | Compliance requirements in the Studley Park Gum Management Framework | 23 |

Figure index

| | | |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Figure 1 | Studley Park Gum recipient site locations in Yarra Valley Parklands (Templestowe, Victoria) | 5 |
| Figure 2 | Monthly rainfall totals from January 2015 to March 2025 | 10 |
| Figure 3 | Number of Studley Park Gum trees and their condition across recipient sites throughout the monitoring program | 11 |
| Figure 4 | Condition of Studley Park Gum trees across the three recipient sites at each monitoring event over the last year A) Event 13 – June 2024, B) Event 14 September 2024, C) Event 15 January 2025, and D) Event 16 March 2025. Light blue is Good (>70% leaves healthy), blue is moderate (>30%-<70% leaves healthy) and dark blue is poor (<30% leaves healthy) | 12 |
| Figure 5 | Living and dead Studley Park Gum trees from June 2024- March 2025 | 16 |

Appendices

| | |
|------------|------------------------------------------------------------------|
| Appendix A | Table of Monitoring Events |
| Appendix B | Monitoring Data: Recipient Site Results 2022-2025 |
| Appendix C | Annual Photo Monitoring |
| Appendix D | Previous Maintenance or Corrective Actions: June 2024-March 2025 |

1. Introduction

1.1 Project background

The North East Link Program (NELP) (a division of the Victorian Infrastructure Delivery Authority (VIDA)), on behalf of the Victorian State government, is currently undertaking the North East Link (NEL) project (referred to herein as 'the project'). The NEL is a new freeway-standard road connection to the north-east of the Melbourne Central Business District that will complete Melbourne's ring road. Specifically, the NEL will connect the Metropolitan Ring Road (M80) to the Eastern Freeway and includes works along the Eastern Freeway from near Hoddle Street to Springvale Road. The impacts to biodiversity values due to the project have been determined through ecological impact assessments, which informed the development of an Environment Effects Statement (EES) in accordance with the *Victorian Environment Effects Act 1978* and a Public Environment Report (PER) in accordance with the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). Ecological impact assessments have identified that the project has the potential to impact *Eucalyptus x studleyensis* (Studley Park Gum), which is listed as 'Critically endangered' on the *Victorian Flora and Fauna Guarantee Act 1988* (FFG Act) threatened flora list.

1.2 Approval conditions

The ministerial assessment of the EES made a number of recommendations regarding the Environmental Performance Requirements (EPR) for NELP. EPR FF10 states 'To mitigate impacts on the Studley Park Gum (SPG), a Studley Park Gum Management Framework must be developed, and corresponding management plan must be developed and implemented in consultation with the Department of Energy Environment and Climate Action (DEECA) (formerly the Department of Environment, Land, Water and Planning (DELWP)).

Condition 6 of the EPBC 2018/8142 approval requires NELP to implement the Studley Park Gum Management Framework and to report to the Department of Climate Change, Energy, the Environment and Water (DCCEEW) (formerly the Department of Agriculture, Water and the Environment (DAWE)) on the outcomes every year for three years as part of compliance reporting.

NELP developed and obtained approval of the Studley Park Gum Management Framework (Emerge Associates and GHD 2021) by DCCEEW (formerly DAWE). Consequentially the Studley Park Gum Management Plan (Emerge Associates and GHD 2020) was prepared to support the Studley Park Gum Management Framework and implemented in consultation with DEECA (formerly DELWP). The Studley Park Gum Management Framework (Emerge Associates and GHD 2021) and Studley Park Gum Management Plan (Emerge Associates and GHD 2020), outline the requirements for planting and ongoing management and monitoring of the SPGs.

1.3 Purpose of this report

This report is the Year 4 annual compliance report following four years of active SPG translocation and monitoring. The purpose of this annual report is to summarise the outcomes of the four most recent quarterly monitoring events and to track the health and condition of the SPGs at the recipient sites over the last 12 months as well as across the full extent of the monitoring program. As the latest round of planting of SPG saplings occurred in May 2022 (three years ago as of May 2025) the survival rate of the translocated SPGs has been assessed against the year 3 targets outlined in the Studley Park Gum Management Framework (Emerge Associates and GHD 2021).

This report meets the reporting requirements of the EPBC Act approval (EPBC 2018/8142) conditions and the requirements of the Studley Park Gum Management Framework (Emerge Associates and GHD 2021) and the Studley Park Gum Management Plan (Emerge Associates and GHD 2020).

1.4 Scope and limitations

1.4.1 Scope

The scope of this assessment involved compiling and comparing the results of the June 2024 (Event 13), September 2024 (Event 14), January 2025 (Event 15), and March 2025 (Event 16) monitoring events over the last 12 months against the full extent of the monitoring program.

This report includes the following:

- Background information describing the broader project and context for the establishment of the Studley Park Gum Management Plan (Emerge Associates and GHD 2020) and Studley Park Gum Management Framework (Emerge Associates and GHD 2021)
- An overview of the monitoring program schedule, including timing for future monitoring events
- A summary of the methods utilised to establish the sites prior to translocation and the methods utilised to undertake the SPG monitoring
- A result summary of the monitoring events undertaken in June 2024 (Event 13), September 2024 (Event 14), January 2025 (Event 15), and March 2025 (Event 16), including tabulated data and graphs showing longer term trends
- An assessment of the recent monitoring results (Events 13 to 16) against the full extent of the monitoring program (translocation to the most recent monitoring event)
- An assessment of how the program is tracking against the translocation goal for the project
- A summary of threats to the Studley Park Gum trees and recommended management actions

1.4.2 Limitations

This report has been prepared by GHD for North East Link Program and may only be used and relied on by North East Link Program for the purpose agreed between GHD and North East Link Program as set out in section 1.3 of this report.

GHD otherwise disclaims responsibility to any person other than North East Link Program arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report (refer section(s) 1.5 of this report). GHD disclaims liability arising from any of the assumptions being incorrect.

GHD has prepared this report on the basis of information provided by NELP and others who provided information to GHD, which GHD has not independently verified or checked beyond the agreed scope of work. GHD does not accept liability in connection with such unverified information, including errors and omissions in the report which were caused by errors or omissions in that information.

1.5 Assumptions

The translocated SPG trees are growing in an uncontrolled environment and can die due to natural causes. It is also possible for those trees to regrow after appearing to be dead during any one monitoring event. Tree status is assessed in the state it is observed at the time of each monitoring event, and a tree being marked as 'dead' may be recorded as 'alive' in a future monitoring event.

The monitoring methods (see Section 3.2) are followed during each monitoring event. Tree health is assessed against a range of characteristics including leaf colour, any evidence of damage from insects or grazing and overall presentation. Whilst the same condition categories are used during each monitoring event, there is the potential for survey bias to contribute to slight variations in the tree health assessment across the course of a long-term monitoring program.

2. Translocation goal

The goal of SPG translocation for the project is to establish a new population of SPGs to assist with the ongoing conservation of the taxon. To achieve this goal, it was proposed to establish a minimum of **104 Studley Park Gum trees** across three recipient sites. For the SPG trees to be considered established, 104 individuals need to have survived three years following planting. The goal of 104 trees is based on a replacement ratio of two translocated SPGs established for each individual tree likely to be impacted by the North East Link.

To achieve the establishment goal of at least 104 plants, it was proposed that a total of 303 SPG saplings are initially planted at the recipient sites. This accounts for unavoidable plant loss assuming a 70% survival rate for each year over a three-year period. The following provides details of the 70% survival rate:

- Year 0 (2021): 303 saplings planted
- Year 1 (2022): 212 saplings (@ 70% survival)
- Year 2 (2023): 149 saplings (@ 70% survival)
- **Year 3 (2024): 104 SPGs established (planted in 2021 and having survived for at least three years)**

In May and June 2021, 364 SPG saplings were planted at the recipient sites. After an unexpectedly high rate of tree mortality due to waterlogging and high rainfall, 226 supplementary SPG saplings were planted between November 2021 and May 2022 to increase the chance of meeting the establishment goal (104 plants surviving for at least three years).

This has led to the monitoring of SPG plants in two different stages of the monitoring program, depending on when they were planted. A decision was made to review the entire program based on the age of the youngest SPGs. As a result, this report marks the end of the third year of monitoring.

2.1 Recipient site locations

The Yarra Valley Parklands sites were deemed by the relevant land manager (and based on feedback from DEECA (formerly DEWLP) to be appropriate recipient sites (Emerge Associates and GHD 2021). Discussions with Parks Victoria determined Westerfolds Park and Montpelier Reserve within Yarra Valley Parklands to be the suitable available recipient sites. Within these two sites, three recipient sites were prepared. Two sites are located within Westerfolds Park and one within Montpelier Reserve (Figure 1).



- Legend**
- Photo point locations
 - Recipient Site
 - Watercourse

3. Method

The following method, as outlined in the Studley Park Gum Management Framework (Emerge Associates and GHD 2021) and the Studley Park Gum Management Plan (Emerge Associates and GHD 2020), was used to undertake the monitoring.

3.1 Monitoring timing

Monitoring has been undertaken quarterly during Years 1-3 post translocation of the SPG saplings. The quarterly monitoring was required to determine whether plants were successfully establishing at the recipient sites and/or whether contingency actions need to be undertaken to facilitate plant survival. Monitoring is then proposed to become less frequent (minimum annually) until the translocation goal of having 104 trees considered established has been met. These monitoring events align with EPBC Act Approval 2018/8142 annual compliance reporting. Monitoring events have been and are proposed to take place at the following intervals:

- Establishment period (Years 1, 2 & 3): monitor quarterly, at approximately the beginning of each season (e.g. September, December, March and June). This includes an initial monitoring visit in the week post-translocation to record initial conditions (baseline) and audit the site establishment activities so that compliance is maintained with the Recipient Site Management Prescriptions.
- Post-establishment (Years 4 onwards): monitor annually until the goal of >104 SPG trees being considered established has been met. Established means trees have survived for at least three years post translocation.
- Monitoring must occur for at least five years post translocation. If the goal of 104 established plants is not achieved after five years, then implementation of the plan will continue until the goal is met, up to a total of 10 years.

See Appendix A for a table of monitoring events that have been completed to date and future planned monitoring events.

3.2 Method

Monitoring involved a physical inspection of the saplings planted at the recipient sites by an appropriately qualified Ecologist/Botanist.

3.2.1 Site preparation

A total of 364 Studley Park Gum saplings were planted within the three recipient sites between 24 May 2021 and June 2021. This was above the target 303 saplings required to be planted, however; due to success in the nursery and available space at the recipient sites, more saplings were able to be translocated than originally proposed. Transplanted saplings were approximately seven months old, with an average height of 51.7 cm. Planted saplings were observed to be well spaced out and placed in clusters as per the Studley Park Gum Management Plan prescriptions (Emerge Associates and GHD, 2020). Saplings were planted away from the fence to allow for future slashing/maintenance activities without impacting the translocated SPGs.

Each planting location was sprayed with herbicide prior to translocating the SPGs to the recipient sites, and introduced grasses and forbs were observed to be dead during the baseline monitoring (September 2021). Plant holes were greater in width than the sapling and appropriately back filled with soil. Mulching was at the correct thickness (as prescribed by Emerge Associates and GHD, 2020), with some mulching being observed to have washed into the planting holes due to the heavy rainfall events prior to the initial planting event.

3.2.2 Data

Weather conditions

A desktop analysis of the conditions recorded by the Bureau of Meteorology at the Viewbank¹ weather station was undertaken to provide a summary of the weather conditions experienced at the recipient sites since the initial planting; these conditions were compared with site and time-matched long-term weather data. Data reviewed included:

- Number of days with rain >1 mm
- Temperature (Maximum and minimum temperatures)
- Total rainfall for the period and against the mean expected rainfall
- Any unexpected weather events (e.g., heat wave, storm, flooding)

Total number of living translocated plants

The total number of SPGs was recorded by observing each SPG and determining if it was alive or dead. Plants considered dead were originally proposed to be removed from the monitoring program so as not to recount these individuals in future monitoring events. However, during early monitoring events in 2022 it was identified that some plants that appeared to be dead during a single monitoring event may have been found to have resprouted in subsequent monitoring events. Therefore, the monitoring method was amended so that:

- Trees recorded as dead for the first time were not removed from the monitoring program to allow time to resprout.
- Trees counted as dead during two consecutive prior monitoring events were not counted again as dead in the current monitoring event, so as not to overinflate the recorded number of translocated SPGs that may have died between any two monitoring events.
- Trees recorded as dead or not present for a third consecutive monitoring event have been removed from the dataset and will not be included in future monitoring events.

Condition of translocated plants

The condition of the translocated plants at the time of the monitoring event were noted, including:

- Stress – if the tree is experiencing stress, the type of stress has been recorded (e.g., drought/herbivory/disease/other)
- Condition – to determine the likelihood of survival. Condition classes applied during the monitoring are as follows:
 - Dead = no living material evident
 - Poor <30% leaves are healthy
 - Moderate 30<70% of leaves healthy
 - Good >70% leaves healthy
- Plant height (cm)
- Diameter of the trunk (cm) at the base of the tree until it reaches a height to record at both the base and at breast height (1.4 m) from the base
- Flowering / fruiting (Yes/No)

¹ <http://www.bom.gov.au/products/IDV60901/IDV60901.95874.shtml> (last accessed 21 March 2025)

Condition of the recipient site

To capture the condition of the recipient site, and threats that weeds and/or herbivores pose to SPG establishment, the following items were monitored:

- Presence of noxious weeds: estimate of the percentage cover of noxious weeds within a 1.5 m radius of each SPG. The noxious weed cover measurement has been changed since previous assessments. The change is based on the correct use of the word “noxious”. In this and future assessments, noxious weeds will refer to weeds listed under the *Catchment and Land Protection Act 1994* (CaLP Act). A total weed cover measurement will be taken to keep track of the weed cover around the trees to help inform land management practices.
- Presence of herbivory within the recipient site: defined by the presence of partially eaten specimens, droppings/scats or diggings.

Incidental observations within the recipient site

Incidental observations within the recipient sites were recorded, including:

- Stagnant/excess water
- Emerging weeds
- If slashing is required to maintain biomass levels suitable for sapling establishment
- Other incidental observations

Maintenance requirements

The recording of programmed maintenance completed as prescribed in the Studley Park Gum Management Plan (Emerge Associates and GHD, 2020), or if previous monitoring events identified actions and if additional maintenance is required. This may include:

- Additional weed maintenance
- Fencing maintenance
- Rectifying unauthorised access
- Slashing of grass within or surrounding recipient site
- Additional planting events

3.2.3 Photo points

Photo-point monitoring was also undertaken during each monitoring event. Mapped locations for photo-point monitoring are provided in Figure 1, and spatial locations provided in Table 1.

Table 1 Photo point locations (Eastings and Northings)

| Photo Point | Westerfolds Site 1 | Westerfolds Site 2 | Montpelier Reserve |
|-------------|--------------------|--------------------|--------------------|
| 1 | 334805, 5820680 | 334732, 5820690 | 333889, 5820220 |
| 2 | 334894, 5820620 | 334651, 5820750 | 334049, 5820200 |
| 3 | 334945, 5820700 | 334711, 5820820 | 334055, 5820220 |
| 4 | 334862, 5820760 | 334791, 5820760 | 333894, 5820250 |

3.2.4 Sample size

There were 249 SPG saplings monitored throughout the monitoring period. The other 341 trees from a total of 590 originally translocated SPGs have died and are no longer being monitored.

3.3 Adaptive management

The results of the quarterly monitoring (detailed in Section 4) during the first three years post-translocation were used to inform site management, maintenance and track the survival of translocated plants. If any issues are identified during a monitoring event, recommendations for adaptive management actions required to rectify issues and appropriate timelines nominated for the task to be undertaken are included in the monitoring reports. The fourth quarterly event each year coincides with the annual monitoring event.

Further, an annual evaluation (this report) has been undertaken to determine progress of the site towards the collective goal. This involved tracking the number of surviving SPG plants in the recipient sites across the year, and also across the full extent of the translocation program. Any actions resulting from the assessment of the translocation program success against the evaluation process provided in Table 2, is summarised in Section 5.

Table 2 *Evaluation process for the recipient sites*

| Timing of monitoring events | Measure | Action |
|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Each quarter for 3 years after planting | Environmental changes that impact SPG survival | Alert management authority Alter Recipient Site Management Prescriptions, if needed |
| Each year for 3 years after planting | >70% SPG survival | None required |
| | <70% SPG survival | Undertake supplementary planting |
| End of 4th year after planting End of 5th year after planting | 104 or more SPG plants established (which have been planted in recipient site for at least 3 years) | Hand over site to management authority Minimal ongoing management activity |
| | <104 SPG plants | Undertake supplementary planting |
| Years 5-10 (only required if goal is not met prior) | <104 SPG plants | Review management actions to improve success. Undertake supplementary planting |

4. Results – June 2024 to March 2025

4.1 Monitoring summary

Quarterly SPG translocation monitoring was undertaken between November 2021 and March 2025 by GHD Botanists at the recipient sites. Timing and or scope of monitoring events was adjusted to accommodate fire danger, extreme weather, COVID-19 restrictions, maintenance, plantings, or herbicide withholding periods where required (Appendix A).

The following section summarises the results of the monitoring undertaken between June 2024 and March 2025.

4.1.1 Weather

The following weather conditions were observed at the recipient sites between the Year 3 fourth quarterly event (19 and 26 March 2024) and the Year 4 fourth quarterly event (26 March 2024 to 6 March 2025) (Table 3). Data was collected from the BOM Viewbank Weather Station (station 086068) (BoM 2025a, 2025b).

The Viewbank weather station has received 686.8 mm of rain in 2024, with an average yearly rainfall from 2015-2024 of 691.4 mm (Figure 2). Rainfall in the years 2020-2022 was significantly higher than preceding and following years (2020: 894.4 mm, 2021: 838.8 mm, 2022: 868.8 mm). Recent data indicates a decline in early summer rainfall during the annual monitoring periods. December 2023 to January 2024 recorded 174.2 mm, while December 2024 to January 2025 dropped to 96.6 mm or 45% less rainfall. These rainfall data patterns are critical in understanding whether climate conditions are impacting the health and survival of translocated Studley Park Gum individuals.

Table 3 Annual weather summary and long-term renovation from Viewbank from March 2024 to March 2025

| | Monitoring period conditions (March 2024 – March 2025) | Long-term annual average (2015-2025) |
|--------------------------------|-----------------------------------------------------------|--------------------------------------|
| Average min temp C | 10.2 °C | 10.2°C |
| Average max temp C | 21.9°C | 21.0°C |
| Total rainfall (mm) | 667 mm | 681.2 mm |
| Number of days with rain >1 mm | 82 | 90.8 |

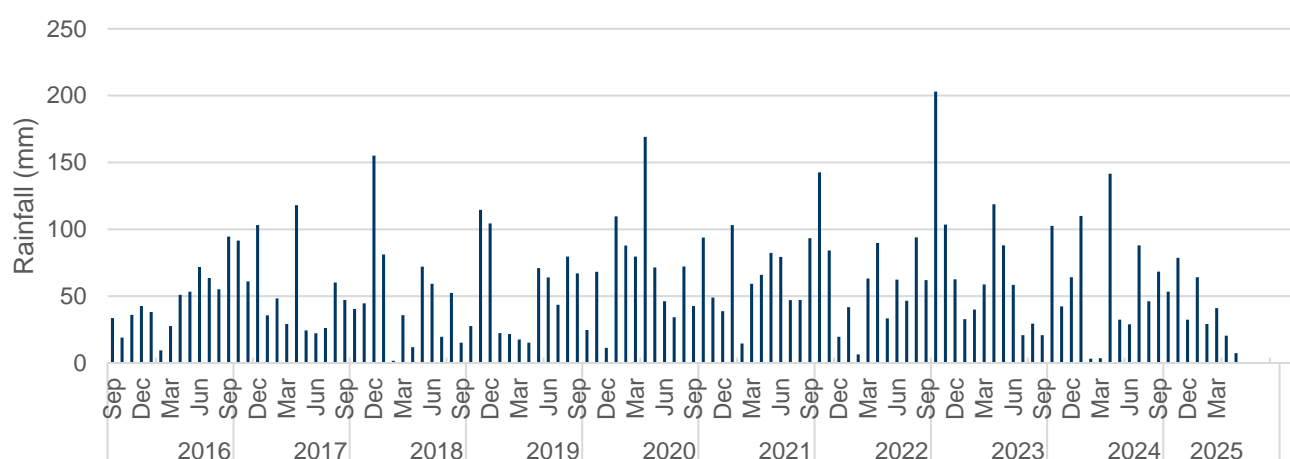


Figure 2 Monthly rainfall totals from January 2015 to March 2025

4.1.2 SPG translocation goal

The proportion of plants in good condition has increased steadily over the course of the past year from 49% of plants in June 2024 to 82% in March 2025 (Figure 3). Additionally, the number of trees observed to be in good health at each site increased or remained constant between each monitoring event (Figure 4). The increase in health could be due to the establishment of the trees and the increase in their root systems. Over the 2023/2024 summer there was an increase in observed insect damage (GHD 2024a) that lead to an increase in the number of translocated SPGs assessed as in poor condition. Conditions have improved since the percentage of leaves exhibiting damage through herbivory has reduced.

In March 2025, there were 97 SPGs from the original planting (May and June 2021) that were still alive. As it has been three years since their planting, they are considered established (Table 4). There are 149 trees from the subsequent plantings (between November 2021 and May 2022) that are still alive and are now two months shy of three years post translocation. As long as at least seven of these 149 trees are alive in May 2025, the program would have met its establishment goal of 104 established SPG trees.

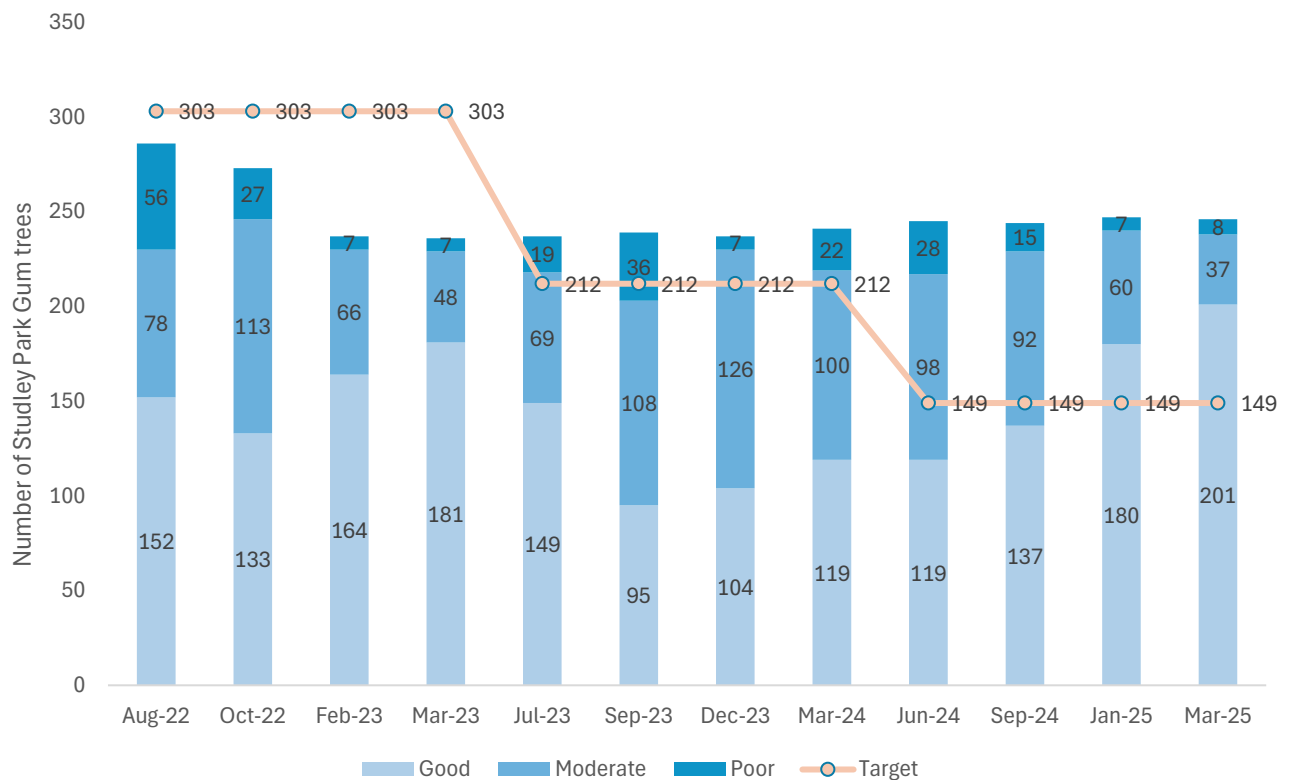


Figure 3 Number of Studley Park Gum trees and their condition across recipient sites throughout the monitoring program

Table 4 Number of translocated SPG trees from the original planting event (May and June of 2021) and the subsequent planting event (November 2021 - May 2022) that were identified as alive during the last year of monitoring

| Planting status | Number of living trees | | | |
|-----------------------------------|------------------------|----------|----------|----------|
| | Event 13 | Event 14 | Event 15 | Event 16 |
| Original planting (3 years old) | 97 | 97 | 98 | 97 |
| Subsequent planting (2 years old) | 148 | 147 | 149 | 149 |

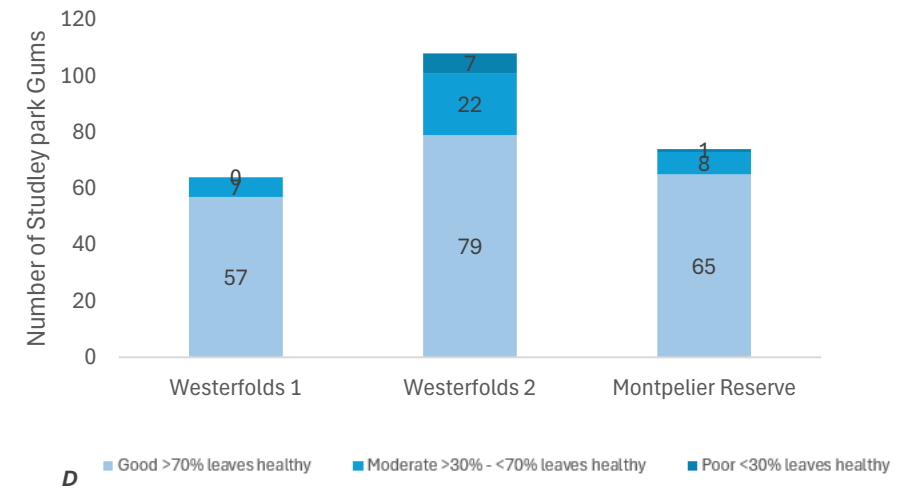
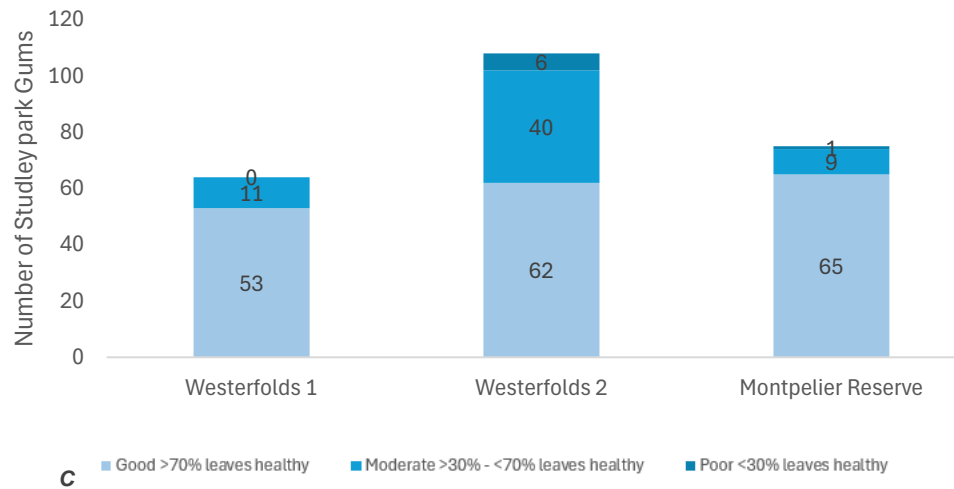
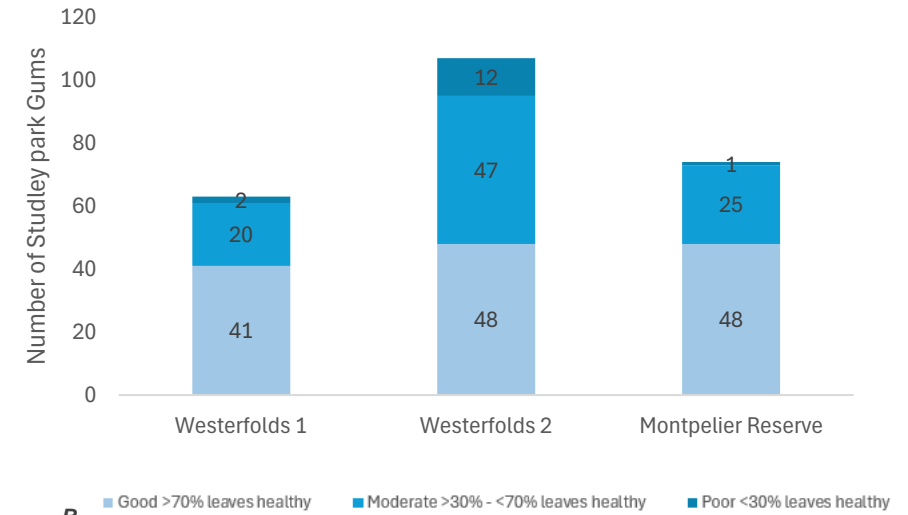
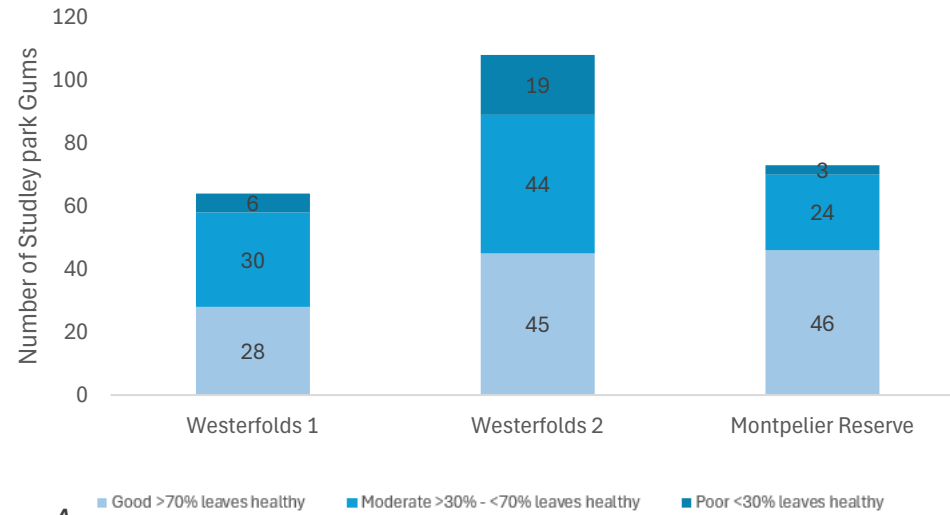


Figure 4 Condition of Studley Park Gum trees across the three recipient sites at each monitoring event over the last year A) Event 13 – June 2024, B) Event 14 September 2024, C) Event 15 January 2025, and D) Event 16 March 2025. Light blue is Good (>70% leaves healthy), blue is moderate (>30%-<70% leaves healthy) and dark blue is poor (<30% leaves healthy)

Despite the dry end to the 24/25 summer, conditions were still good enough for the translocated plants to grow – average height was observed to have increased from 248 cm in June 2024 to 343 cm in March 2025. In March 2025 (Event 16) there were only 15 trees less than 100 cm tall. At least five of these trees are regrowing from the base of the stem after the main stem was damaged or died. The mean increase in height was greatest between September 2024 and January 2025 (Table 5). This is consistent with previous observations at the sites and peer reviewed research indicating the fastest growth of Eucalyptus species is generally in spring and autumn (Tang *et al.* 2023).

Table 5 Analysis of the height difference in translocated SPGs between monitoring events conducted in June 2024 (Event 13) and March 2025 (Event 16)

| Height Difference | Event 12-13 | Event 13-14 | Event 14-15 | Event 15-16 |
|-------------------|-------------|-------------|-------------|-------------|
| Mean | 18 cm | 10 cm | 55 cm | 30 cm |

There were 11 plants that had buds during monitoring Event 16, and it is expected that a greater proportion of plants will show some form of reproduction in the future as they age.

Across the three recipient sites, three of 246 translocated SPGs were considered dead or missing (1%) in Event 16. These rates are within the target range for the translocation program as per the Studley Park Gum Management Framework (Emerge Associates and GHD 2021). Across the year there were a total of five trees that were recorded as dead. Three trees were recorded as dead and then following monitoring events were found as alive. This can happen when plants are so small they are covered by tall grass. This can also happen when a plant appears to be dead in a previous monitoring event and then is observed to have resprouted in subsequent monitoring events.

4.1.3 Threats

The predominant threats to successful SPG establishment as of March 2025 are outlined below.

Brush-cutting damage

In early 2024 some individual SPGs in Montpelier Reserve showed evidence of damage as a result of the brush-cutting of noxious weed around the base of translocated individuals. Such activities are a necessary part of controlling biomass and reducing competition from noxious weeds, but land management staff should leave a sufficient buffer around SPG individuals and use alternative methods (such as hand weeding or secateurs) to minimise the risk of damage.

No new brush-cutting damage was observed over the June 2024 to March 2025 monitoring period.

Fence condition and erosion

Erosion is causing a risk to fence condition and herbivory prevention at Montpelier Reserve, with hill and gully erosion forming in and around wombat burrows and rabbit warrens. There are four burrows under the fence on the north and south side of Montpelier Reserve, which need to be destroyed and/or rehabilitated to prevent pest animals from entering the reserve.

A crack is present in the north-western corner pole in Westerfolds Site 2 as a result of an external impact. This impact occurred in 2022 and the damage to the fence is being monitored regularly by the land manager to determine if the pole needs to be replaced.

Noxious weed cover

Noxious weed cover within the 1.5 m buffer around SPG individuals was below the threshold of 1% as a result of brush-cutting and other weed control activities. Over the course of the monitoring period *Rubus anglocandicans* (Blackberry), *Cirsium vulgare* (Spear Thistle) and *Echium plantagineum* (Paterson's Curse) have been identified near SPGs and have been sprayed and managed at appropriate times by the land manager.

Weed cover was recorded above the recommended levels of <1% within 1.5 m radius around the SPGs at all sites during the June 2024 – March 2025 monitoring period (Table 6). Weed cover was predominantly comprised of *Anthoxanthum odoratum* (Sweet Vernal-grass) across all sites, consistent with previous monitoring events.

Cover of other grassy weeds was also high at each of the recipient sites, predominantly contributed by perennial grassy weed *Phalaris aquatica* (Toowoomba Canary Grass).

It is noted that the condition of translocated SPGs does not appear to have been significantly compromised by weed cover at this stage. With the ongoing formation of gully erosion at Montpelier Reserve, and a history of waterlogging at all sites, grassy cover is currently acting as a soil stabiliser and water ‘diversion’ until the SPGs are established enough to fulfil this ecological role.

The current approach of managing grassy weed biomass by brush-cutting rather than spraying is recommended to continue, as long as appropriate buffers around translocated plants are put in place so that SPG health can be maintained. Control of woody weeds and forbs should continue as per the Studley Park Gum Management Plan (Emerge Associates and GHD, 2020). It is recommended that the noxious weed *Nassella neesiana* (Chilean Needle Grass) should also be controlled as per the Studley Park Gum Management Plan (Emerge Associates and GHD, 2020), due to its high risk of biodiversity impact to the surrounding park, and its persistence in the soil seed bank.

Herbivory

Herbivory by small mammals (e.g., rabbits) is less likely now that most trees are over 1 m tall. The fences around the translocated SPGs could be removed after year five, if the trees were considered sufficiently established to not be at risk from deer grazing. At this stage, many of the trees are still at risk (possible damage to plants and/or death of individuals) from deer grazing if the fences were to be removed.

It is recommended that insect herbivory continues to be monitored by the contractor and the need for snail/slug control or leaf insect control should continue to be assessed regularly.

If the contractor observes significant slug/snail damage or leaf insect damage, then appropriate bait or insecticide may be appropriate to use in the short-term.

4.2 Recipient site results

Monitoring results recorded for the three recipient sites during March 2025 are provided in Table 6 with the summary of data of the four quarterly monitoring events presented in Table C1, and each quarterly monitoring data presented in full in Appendix B.

Photos taken at monitoring points between June 2024 and March 2025 are provided in Appendix C, with representative photos of establishing SPGs (March 2025) provided in Appendix C. Monitoring data for each site during each quarterly monitoring event (Event 13-16) is provided in Appendix B.

Table 6 Monitoring results: Quarterly monitoring results from June 2024 – March 2025

| Monitoring Parameter | Jun-24 | Sep-24 | Jan-25 | Mar-25 |
|-----------------------------------------------------------------------|-----------|-----------|-----------|-----------|
| Number of living plants | 245 | 244 | 247 | 246 |
| Number of dead plants | 2 | 4 | 2 | 2 |
| Total records (count) of living and dead plants | 247 | 248 | 249 | 248 |
| % of living plants with >70% of healthy leaves (good condition) | 49% (119) | 56% (137) | 73% (180) | 82% (201) |
| % of living plants with 30-70% of healthy leaves (moderate condition) | 40% (98) | 38% (92) | 24% (60) | 15% (37) |
| % of living plants with <30% of healthy leaves (poor condition) | 11% (28) | 6% (15) | 3% (7) | 3% (8) |
| Average tree height (cm) | 248.3 cm | 259.1 cm | 311.7 cm | 343.4 cm |

| Monitoring Parameter | Jun-24 | Sep-24 | Jan-25 | Mar-25 |
|----------------------------------------------------------------|---------------------------|---------------------------|----------------------------------------|---------------------------|
| Average DBH (cm) | 2.1 cm | 2.6 cm | 3.5 cm | 3.8 cm |
| Number of plants with flowering/fruitle presence | 4 | 4 | 5 | 11 |
| No. of plants with noxious weeds within 1.5 m | 2 | 2 | 3 | 6 |
| Noxious weed cover present (within 1.5 m radius) | 0.2 | 0.2 | 0.3 | 0.4 |
| Average cover of weeds within 1.5 m radius (%) | 97% | 74% | 82% | 85% |
| Herbivory Present (%) | 1% (2) | 1% (2) | 1% (2) | 1% (2) |
| Programmed maintenance undertaken satisfactorily | Yes | Yes | Mostly yes, follow up actions required | Yes |
| Previous additional maintenance/ adaptive measures undertaken? | Yes | Yes | Yes | Yes |
| Additional maintenance required? | Yes – ongoing maintenance | Yes – ongoing maintenance | Yes – ongoing maintenance | Yes – ongoing maintenance |



Legend

Studley Park Gum Trees Photo point locations Recipient Site

● Living

● Dead

Paper Size A3

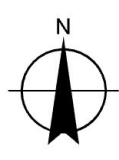
0 10 20 40

Metres

Map Projection: Transverse Mercator

Horizontal Datum: GDA 1994

Grid: GDA 1994 MGA Zone 55



North East Link Project

Living and dead Studley Park Gum trees

Event 13 June 2024

Date: 30 May 2025

Revision: 0

Figure 5a

Conditions of Use

This document has been developed for the purposes of the North East Link Project. Recipients of this document:

- are subject to obligations of confidentiality in relation to this document; and
- may not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice.

Security Classification: **OFFICIAL - Sensitive**

NEL-PW-GHD-9990-EEE-REP-0068 Revision 0

Studley Park Gum Annual EPBC Compliance Report 2024-2025

180 Lonsdale Street, Melbourne VIC 3000 Australia T 61 3 8687 8000 E melmail@ghd.com W www.ghd.com

Data Sources: Nearmap Imagery March 2025 | Cadastre, Roads, - Vicmap - 2023 | SPG data - GHD 2025 | Created by:kgardner



Legend

Studley Park Gum Trees Photo point locations Recipient Site

● Living

● Dead

Paper Size A3

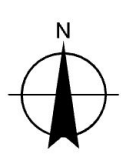
0 10 20 40

Metres

Map Projection: Transverse Mercator

Horizontal Datum: GDA 1994

Grid: GDA 1994 MGA Zone 55



North East Link Project

Date: 30 May 2025
Revision: 0

Living and dead Studley Park Gum trees
Event 14 Sept 2024

Figure 5b

Conditions of Use
This document has been developed for the purposes of the North East Link Project. Recipients of this document:
- are subject to obligations of confidentiality in relation to this document; and
- may not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice.

Security Classification: **OFFICIAL - Sensitive**
NEL-PW-GHD-9990-EEE-REP-0068 Revision 0
Studley Park Gum Annual EPBC Compliance Report 2024-2025

180 Lonsdale Street, Melbourne VIC 3000 Australia T 61 3 8687 8000 E melmail@ghd.com W www.ghd.com
Data Sources: Nearmap Imagery March 2025 | Cadastre, Roads, - Vicmap - 2023 | SPG data - GHD 2025 | Created by: kgardner



Legend

Studley Park Gum Trees Photo point locations Recipient Site

● Living

● Dead

Paper Size A3

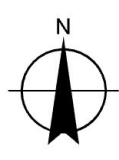
0 10 20 40

Metres

Map Projection: Transverse Mercator

Horizontal Datum: GDA 1994

Grid: GDA 1994 MGA Zone 55



North East Link Project

Living and dead Studley Park Gum trees

Event 15 Feb 2025

Date: 30 May 2025

Revision: 0

Figure 5c

Conditions of Use

This document has been developed for the purposes of the North East Link Project. Recipients of this document:

- are subject to obligations of confidentiality in relation to this document; and
- may not rely upon the information contained in this document, and must rely absolutely on their own opinion and professional advice.

Security Classification: **OFFICIAL - Sensitive**

NEL-PW-GHD-9990-EEE-REP-0068 Revision 0

Studley Park Gum Annual EPBC Compliance Report 2024-2025

180 Lonsdale Street, Melbourne VIC 3000 Australia T 61 3 8687 8000 E melmail@ghd.com W www.ghd.com

Data Sources: Nearmap Imagery March 2025 | Cadastre, Roads, - Vicmap - 2023 | SPG data - GHD 2025 | Created by: kgardner



Legend

Studley Park Gum Trees Photo point locations Recipient Site

● Living

● Dead

Figure 5d

5. Adaptive management measures and recommendations

5.1 Proposed maintenance and/or corrective actions

Proposed maintenance and corrective actions undertaken during the reporting period (June 2024 – March 2025) are detailed in Appendix D.

At this stage of establishment, protection from herbivore browsing and weed control is required to maximise translocation success.

The following actions are a summary of what is recommended beyond March 2025 to achieve this:

- Slashing or brush-cutting fence boundaries to allow easy inspection of fence condition and to reduce risk of herbivore egress during the SPG establishment period. Herbicide spraying on the Montpelier Reserve fence line is not recommended, as non-vegetated soil will be more susceptible to erosion and waterlogging.
- Fencing should be assessed for preventative repair and reinforcement at Montpelier Reserve.
- Trees 50 cm and smaller should be marked with a stake, and optionally also temporarily fitted with a tree guard so that they may be readily located during maintenance and monitoring events. In future, any replacement plantings should use both stakes and tree guards.
- Noxious weeds should be targeted for selective spraying/hand-weeding in line with the SPG Management Plan (GHD 2020). Spot spraying is to occur only at a distance greater than 50 cm from saplings and weed control within 50 cm of saplings is to be done by hand.
- Request the contractor to continue to monitor insect herbivory and assess the need for snail/slug control or leaf insect control regularly. If the contractor observes significant slug/snail damage or leaf insect damage, then appropriate bait or insecticide may be used in the short-term.

6. Compliance assessment

The translocation program is compliant with both the EPBC 2018/8142 approval condition 6 and the Studley Park Gum Management Framework requirements. Table 7 provides an assessment of the results of the SPG monitoring program against the EPBC Approval (EPBC 2018/8142) condition 6. Table 8 details the compliance of the translocation program against the requirements of the Studley Park Gum Management Framework (Emerge Associates and GHD, 2021).

Table 7 EPBC 2018/8142 Approval Condition relevant to Studley Park Gums

| Condition no. | Approval Condition | Condition currently triggered | Compliance | Comments and supporting documentation |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 6 | The approval holder must implement the Studley Park Gum Management Framework for the period of effect of the approval. The approval holder must provide the department with a report, as part of the compliance report, each year for three years, commencing from the date the first Studley Park Gum tree is planted in accordance with the Studley Park Gum Management Framework. This report must detail the number, condition and threats faced by the Studley Park Gum trees that have been planted, as well as any maintenance or corrective actions that are taken or are proposed. | Yes | Compliant | <p>The report provides an assessment of the state of the translocation program against the EPBC approval condition and the Studley Park Gum Management Framework.</p> <p>This is the third annual compliance report and due to the supplementary plantings completed from November 2021 to May 2022, the program is being assessed against the Year 3 targets to account for these young plants not having been planted for three years yet. There were 246 plants found alive in March of 2025, which is more than the target of 104 living plants for Year 3 survivorship. 82% of these living plants were in good condition with only 3% in poor condition.</p> <p>There are 97 SPG trees that were planted in May and June of 2021 that were recorded as alive during the most recent monitoring event (March 2025), as such these trees are considered established (translocated individuals have survived for 3 years). There are 149 SPG trees that were planted by May 2022 that were alive during monitoring Event 16 (March 2025).</p> <p>Noxious weed cover meets the target of <1% cover within 1.5 m of the SPGs. Whilst total weed cover is higher, it is dominated by grassy weeds such as <i>Anthoxanthum odoratum</i> (Sweet Vernal-grass), which would have little to no effect on the SPGs given their current size and age.</p> <p>Brush-cutting and fence maintenance was performed over the course of the year (Appendix D).</p> <p>The Project is compliant with the EPBC approval condition to date. Monitoring will continue in accordance with the Studley Park Gum Management Framework and Studley Park Gum Management Plan (Emerge Associates and GHD 2021 and Emerge Associates and GHD 2020 respectively).</p> |

Table 8 Compliance requirements in the Studley Park Gum Management Framework

| Studley Park Gum Management Framework | Comments and supporting documentation |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>The plan goal of 70% survival rate for each year based on the below numbers:</p> <ul style="list-style-type: none"> – Year 0: 303 saplings planted – Year 1: 212 saplings (@70% survival) – Year 2 149 Saplings (@70% survival) – Year 3 104 plants established | <p>This report summarises the success of the program against the Year 3 targets because the youngest SPGs planted across the sites were planted from November 2021 to May 2022. Based on 249 living SPG plants across the three sites, the Year 3 target has been exceeded (i.e. a survival rate of 70%, above the target for Year 3). Additionally, the program is close to achieving the end target of at least 104 established SPGs, with 97 SPGs now considered established (survived three years since planting).</p> |
| <p>Noxious weed cover levels within 5 m radius of planted tube stock is to be controlled to ensure cover is less than 1%.</p> | <p>Noxious weed cover across all sites averaged out to less than 1%. Over the course of the monitoring period <i>Rubus anglocandicans</i> (Blackberry), <i>Cirsium vulgare</i> (Spear Thistle) and <i>Echium plantagineum</i> (Paterson's Curse) were identified near SPGs, these weeds have been sprayed and managed at appropriate times by the land manager.</p> |
| <p>Monitoring is required to assess impacts of herbivory of pest animals.</p> | <p>Recorded rates of herbivory across the sites was recorded as 1% from June 2024 to March 2025. The current control methods (fence) are appropriate to protect plants from kangaroo, deer, rabbits and hares.</p> |

7. References

Bureau of Meteorology (BoM) (2025a), Watsonia, Victoria: Daily weather Observations. Retrieved March 2025, from <http://www.bom.gov.au/climate/dwo/202205/html/IDCJDW3079.202205.shtml>

Bureau of Meteorology (BoM) (2025b), Climate statistics for Australian locations: Viewbank. Retrieved March 2025, from http://www.bom.gov.au/climate/averages/tables/cw_086068.shtml

Emerge Associates and GHD (2020), Studley Park Gum Management Plan, prepared for North East Link Project.

Emerge Associates and GHD (2021), North East Link Project: Studley Park Gum Management Framework (Revision 3)

GHD (2021a) Studley Park Gum Monitoring Report – Baseline and Monitoring Event 1 – June 2021. Report prepared by GHD for the North East Link Program, Melbourne, Australia

GHD (2021b) Studley Park Gum Monitoring Report – Monitoring Event 2 – November 2021. Report prepared by GHD for the North East Link Program, Melbourne, Australia

GHD (2021c) Studley Park Gum Monitoring Report – Monitoring Event 3 – January 2022. Report prepared by GHD for the North East Link Program, Melbourne, Australia

GHD (2021d) Studley Park Gum Annual Compliance Report 2021. Report prepared by GHD for the North East Link Program, Melbourne, Australia

GHD (2022a) Studley Park Gum Annual Compliance Report 2022. Report prepared by GHD for the North East Link Program, Melbourne, Australia

GHD (2022b) Studley Park Gum Monitoring Report – Monitoring Event 4 – May 2022. Report prepared by GHD for the North East Link Program, Melbourne, Australia

GHD (2022c) Studley Park Gum Monitoring Report – Monitoring Event 5 – August 2022. Report prepared by GHD for the North East Link Program, Melbourne, Australia

GHD (2022d) Studley Park Gum Monitoring Report – Monitoring Event 6 – October 2022. Report prepared by GHD for the North East Link Program, Melbourne, Australia

GHD (2023a) Studley Park Gum Monitoring Report – Monitoring Event 7 – February 2023. Report prepared by GHD for the North East Link Program, Melbourne, Australia

GHD (2023b) Studley Park Gum Monitoring Report – Monitoring Event 8 – March 2023. Report prepared by GHD for the North East Link Program, Melbourne, Australia

GHD (2023c) Studley Park Gum Annual Compliance Report 2023. Report prepared by GHD for the North East Link Program, Melbourne, Australia

GHD (2023d) Studley Park Gum Monitoring Report – Monitoring Event 9 – July 2023. Report prepared by GHD for the North East Link Program, Melbourne, Australia

GHD (2023e) Studley Park Gum Monitoring Report – Monitoring Event 10 – September 2023. Report prepared by GHD for the North East Link Program, Melbourne, Australia

GHD (2023f) Studley Park Gum Monitoring Report – Monitoring Event 11 – December 2023. Report prepared by GHD for the North East Link Program, Melbourne, Australia

GHD (2024a) Studley Park Gum Monitoring Report – Monitoring Event 12 – March 2024. Report prepared by GHD for the North East Link Program, Melbourne, Australia

GHD (2024b) Studley Park Gum Annual Compliance Report 2024. Report prepared by GHD for the North East Link Program, Melbourne, Australia

GHD (2024c) Studley Park Gum Monitoring Report – Monitoring Event 13 – June 2024. Report prepared by GHD for the North East Link Program, Melbourne, Australia

GHD (2024d) Studley Park Gum Monitoring Report – Monitoring Event 14 – September 2024. Report prepared by GHD for the North East Link Program, Melbourne, Australia

GHD (2024e) Studley Park Gum Monitoring Report – Monitoring Event 15 – December 2024. Report prepared by GHD for the North East Link Program, Melbourne, Australia

Tang, Xu, Peng Lei, Qixu You, Yao Liu, Shijing Jiang, Jianhua Ding, Jianjun Chen, and Haotian You. 2023. "Monitoring Seasonal Growth of *Eucalyptus* Plantation under Different Forest Age and Slopes Based on Multi-Temporal UAV Stereo Images" *Forests* 14, no. 11: 2231. <https://doi.org/10.3390/f14112231>

Appendices

Appendix A

Table of Monitoring Events

Table A1 *Table of monitoring events*

| Year | Monitoring event | Monitoring report | Expected date of event | Date event completed | Comments |
|------|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Event 1 - Baseline Monitoring Event and 1 st quarterly event | GHD (2021a) Studley Park Gum Monitoring Report – Baseline and Monitoring Event 1 – June 2021. Report prepared by GHD for the North East Link Program, Melbourne, Australia. Finalised 9 December 2021 | Planting expected in May 2021, monitoring one week following planting | Planting: 24/05/21 Monitoring: 15/06/2021 | Monitoring delayed by one week due to Victorian Government mandated COVID-19 lockdown, and a public holiday between planting and monitoring event. |
| 1 | Event 2 - 2 nd Quarterly event | GHD (2021b) Studley Park Gum Monitoring Report – Monitoring Event 2 – November 2021. Report prepared by GHD for the North East Link Program, Melbourne, Australia. Finalised 24 February 2022 | September 2021 | 9/11/2021 | Site visit paused until replacement plantings could be installed, as per prior audit recommendations. Monitoring occurred within one week of supplementary planting. During this monitoring event ecologists were unable to enter Westerfolds Site 2 due to safety hazards. |
| 1 | Event 3 - 3 rd Quarterly event | GHD (2021c) Studley Park Gum Monitoring Report – Monitoring Event 3 – January 2022. Report prepared by GHD for the North East Link Program, Melbourne, Australia. Finalised 1 March 2022 | December 2021 | 18/01/2022 | Delay from prior survey carried forward to this monitoring event, to allow time for meaningful plant growth to occur. Westerfolds Site 2 sapling numbers could not be assessed due to maintenance activities being underway. |
| 1 | Event 4 - 4 th Quarterly event | GHD (2022a) Studley Park Gum Monitoring Report – Monitoring Event 4 – May 2022. Report prepared by GHD for the North East Link Program, Melbourne, Australia. Finalised 18 July 2022 | March 2022 | 12/05/2022 – 13/05/2022 | Delayed due to herbicide withholding period, and to allow completion of maintenance activities. |

| Year | Monitoring event | Monitoring report | Expected date of event | Date event completed | Comments |
|------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 | Event 5 - 1 st Quarterly event | GHD (2022b) Studley Park Gum Monitoring Report – Monitoring Event 5 – August 2022. Report prepared by GHD for the North East Link Program, Melbourne, Australia | June 2022 | 4/8/2022 - 5/8/2022 | Delayed allowing time for brush-cutting so that staff could access site. |
| 2 | Event 6 - 2 nd Quarterly event | GHD (2022c) Studley Park Gum Monitoring Report – Monitoring Event 6 – October 2022. Report prepared by GHD for the North East Link Program, Melbourne, Australia | September 2022 | 18/10/2022- 19/10/2022 | Delayed allowing time for brush-cutting so that staff could access site. |
| 2 | Event 7 - 3 rd Quarterly event | GHD (2023a) Studley Park Gum Monitoring Report – Monitoring Event 7 – February 2023. Report prepared by GHD for the North East Link Program, Melbourne, Australia | December 2022 | 9/2/2023 and 14/2/2023 | Monitoring conditions were delayed until site conditions were safe enough for a visit. Monitoring occurred after biomass control by land managers. |
| 2 | Event 8 - 4 th Quarterly event | GHD (2023b) Studley Park Gum Annual Compliance Report 2023. Report prepared by GHD for the North East Link Program, Melbourne, Australia. Finalised 21 June 2024 | March 2023 | 27/3/2023 and 29/3/2023 | Monitoring undertaken at required time. |
| 3 | Event 9 - 1 st Quarterly event | GHD (2023c) Studley Park Gum Monitoring Report – Monitoring Event 9 – July 2023. Report prepared by GHD for the North East Link Program, Melbourne, Australia. Finalised 27 September 2023 | June 2023 | 20/7/2023- 21/7/2023 | Monitoring delayed allowing for appropriate resourcing. |

| Year | Monitoring event | Monitoring report | Expected date of event | Date event completed | Comments |
|------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------------------|-----------------------------------------|
| 3 | Event 10 - 2 nd Quarterly event | GHD (2023d) Studley Park Gum Monitoring Report – Monitoring Event 10 – September 2023. Report prepared by GHD for the North East Link Program, Melbourne, Australia. Finalised 12 February 2024 | September 2023 | 20/09/2023 - 21/09/2023 | Monitoring undertaken at required time. |
| 3 | Event 11 - 3 rd Quarterly event | GHD (2023e) Studley Park Gum Monitoring Report – Monitoring Event 11 – December 2023. Report prepared by GHD for the North East Link Program, Melbourne, Australia. Finalised 29 February 2024 | December 2023 | 7/12/2023 and 14/12/2023 | Monitoring undertaken at required time. |
| 3 | Event 12 - 4 th Quarterly event | GHD (2024a) Studley Park Gum Monitoring Report – Monitoring Event 12 – March 2024. Report prepared by GHD for the North East Link Program, Melbourne, Australia. Finalised 26 July 2024 | March 2024 | 19/3/2024 and 26/3/2024 | Monitoring undertaken at required time. |
| 4 | Event 13 - 1 st Quarterly event | GHD (2024b) Studley Park Gum Monitoring Report – Monitoring Event 13 – June 2024. Report prepared by GHD for the North East Link Program, Melbourne, Australia. Finalised 17 October 2024 | June 2024 | 19/6/2024 and 20/6/2024 | Monitoring undertaken at required time. |

| Year | Monitoring event | Monitoring report | Expected date of event | Date event completed | Comments |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | Event 14 - 2 nd Quarterly event | GHD (2024c) Studley Park Gum Monitoring Report – Monitoring Event 14 – September 2024. Report prepared by GHD for the North East Link Program, Melbourne, Australia. Finalised 29 November 2024. | September 2024 | 11/9/2024 and 12/9/2024 | Monitoring undertaken at required time. |
| 4 | Event 15- 3 rd Quarterly event | GHD (2024d) Studley Park Gum Monitoring Report – Monitoring Event 15 – December 2024. Report prepared by GHD for the North East Link Program, Melbourne, Australia. Finalised 3 April 2025. | December 2024 | 24/01/ 2025 | Monitoring was delayed due to high fire danger warning of the sites during the scheduled dates in December 2024 and allow time for brush-cutting so that staff could access site |
| 4 | 4 th Quarterly event | GHD (2025) Studley Park Gum Monitoring Report – Monitoring Event 16 – March 2025. Report prepared by GHD for the North East Link Program, Melbourne, Australia | March 2025 | 06/03/2025 | Monitoring undertaken at required time. |
| 5 | Annually in May | | May 2025 | | |
| 6 | Annually in May | | May 2026 | | |
| 7 | Annually in May | | May 2027 | | |
| If 104 or more Studley Park Gum trees have survived to this point the program can be considered a success and site can be handed over to management authority. Further monitoring is not required. | | | | | |
| 8 | Annually in May | | May 2028 | | |
| 9 | Annually in May | | May 2029 | | |
| 10 | Annually in May | | May 2030 | | |
| 10 | End of project | | May 2031 | | |

Appendix B

**Monitoring Data: Recipient Site Results
2022-2025**

Table B1 Summary of quarterly monitoring events: August 2022 Event 5 – March 2025 Event 16

| Recipient Site | Aug-22 | Oct-22 | Feb-23 | Mar-23 | Jul-23 | Sep-23 | Dec-23 | Mar-24 | Jun-24 | Sep-24 | Jan-25 | Mar-25 |
|-----------------------------------------------------------------------|-----------|-----------|---------------------------------------|---------------------------------------|----------------------------------------|---------------------------|---------------------------------------------|---------------------------|---------------------------|---------------------------|----------------------------------------|---------------------------|
| Living plants (no.) | 292 | 282 | 238 | 244 | 244 | 239 | 237 | 241 | 245 | 244 | 247 | 246 |
| Dead plants (no.) | 27 | 28 | 57 | 18 | 75 | 18 | 8 | 2 | 2 | 4 | 2 | 2 |
| Total records (count) living and dead | 319 | 310 | 295 | 262 | 319 | 257 | 245 | 243 | 247 | 248 | 249 | 248 |
| % of living plants with >70% of healthy leaves (good condition) | 53% (155) | 48% (136) | 71% (168) | 77% (188) | 62% (150) | 40% (95) | 44% (104) | 49% (119) | 49% (119) | 56% (137) | 73% (180) | 82% (201) |
| % of living plants with 30<70% of healthy leaves (moderate condition) | 27% (79) | 42% (118) | 27% (65) | 20% (48) | 30% (74) | 45% (108) | 53% (126) | 41% (100) | 40% (98) | 38% (92) | 24% (60) | 15% (37) |
| % of living plants with <30% of healthy leaves (poor condition) | 20% (59) | 10% (29) | 2% (5) | 3% (8) | 8% (20) | 15% (36) | 3% (7) | 9% (22) | 11% (28) | 6% (15) | 3% (7) | 3% (8) |
| Average tree height (cm) | 67.4 | 73.3 | 130.8 | 155.9 | 162.0 | 169 | 190 | 241.1 | 248.3 | 259.1 | 311.7 | 343.4 |
| Average Basal diameter (cm) | <1 | <1 | <1 | <1 | 1 | 1 | 1.6 | 2.1 | 2.1 | 2.6 | 3.5 | 3.8 |
| Number of plants with flowering/fruitle presence | 0 | 0 | 0 | 1 | 1 | 1 | 4 | 4 | 4 | 4 | 5 | 11 |
| No. of plants with noxious weeds within 1.5 m | 136 | 265 | N/A* | N/A* | N/A* | N/A* | N/A* | 2 | 2 | 2 | 3 | 6 |
| Noxious weed cover present (within 1.5 m radius) | 16.6 | 34.7 | 0.6 | 0.7 | 0.0 | 0.0 | 0.01 | 0.2 | 0.2 | 0.2 | 0.3 | 0.4 |
| Average cover of weeds within 1.5m radius (%) | N/A* | N/A* | N/A* | N/A* | N/A* | N/A* | N/A* | 86% | 97% | 74% | 82% | 85% |
| Herbivory Present (%) | 99% (317) | 99% (308) | 26% (61 plants) | 0% (0) | 28% (68) | 3% (8) | 0% (0) | 1% (2) | 1% (2) | 1% (2) | 1% (2) | 1% (2) |
| Programmed maintenance undertaken satisfactorily | N/A | N/A | Mostly, follow up on actions required | Mostly, follow up on actions required | Mostly yes, follow up actions required | Yes | No – some tree damage due to brush-cutting. | Yes | Yes – ongoing maintenance | Yes – ongoing maintenance | Mostly yes, follow up actions required | Yes |
| Previous additional maintenance/ adaptive measures undertaken? | N/A | N/A | Biomass control | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Additional maintenance required? | N/A | N/A | Yes | Yes | Yes – ongoing maintenance | Yes – ongoing maintenance | Yes – ongoing maintenance | Yes – ongoing maintenance | Yes – ongoing maintenance | Yes – ongoing maintenance | Yes – ongoing maintenance | Yes – ongoing maintenance |

* Data collection method for assessing noxious and other weed coverage was adapted to provide better data to NELP and the land management team.

Appendix C

Annual Photo Monitoring

Table C1 *Westerfolds 1 photo monitoring points: June 2024 to March 2025*




















| Location | June 2024 | September 2024 | January 2025* | March 2025 |
|--------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1 (gate) |  |  |  |  |
| 2 (next corner anticlockwise from gate) |  |  |  |  |
| 3 (opposite gate) |  |  |  |  |
| 4 (corner that is clockwise from the gate) | Photo not available |  |  |  |

Table C2 *Westerfolds 2 photo monitoring points: June 2024 to March 2025*

| Location | June 2024 | September 2024 | January 2025* | March 2025 |
|--------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1 (gate) |  |  |  |  |
| 2 (next corner anticlockwise from gate) |  |  |  |  |
| 3 (opposite gate) |  |  |  |  |
| 4 (corner that is clockwise from the gate) |  |  |  |  |

Table C3 *Montpelier Reserve photo monitoring points: June 2024 to March 2025*

| Location | June 2024 | September 2024 | January 2025* | March 2025 |
|--------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 1 (gate) |  |  |  |  |
| 2 (next corner anticlockwise from gate) |  |  |  |  |
| 3 (opposite gate) |  |  |  |  |
| 4 (corner that is clockwise from the gate) |  |  |  |  |

Appendix D

**Previous Maintenance or Corrective
Actions: June 2024-March 2025**



Table D1 *Previous maintenance or corrective actions undertaken (June 2024 – March 2025)*

| Site | Action | Date |
|-----------|--------------------------------------|-----------------------------|
| All sites | Brush-cutting and mowing around SPGs | September and December 2024 |
| All sites | Weed Control | September and December 2024 |



ghd.com

→ **The Power of Commitment**