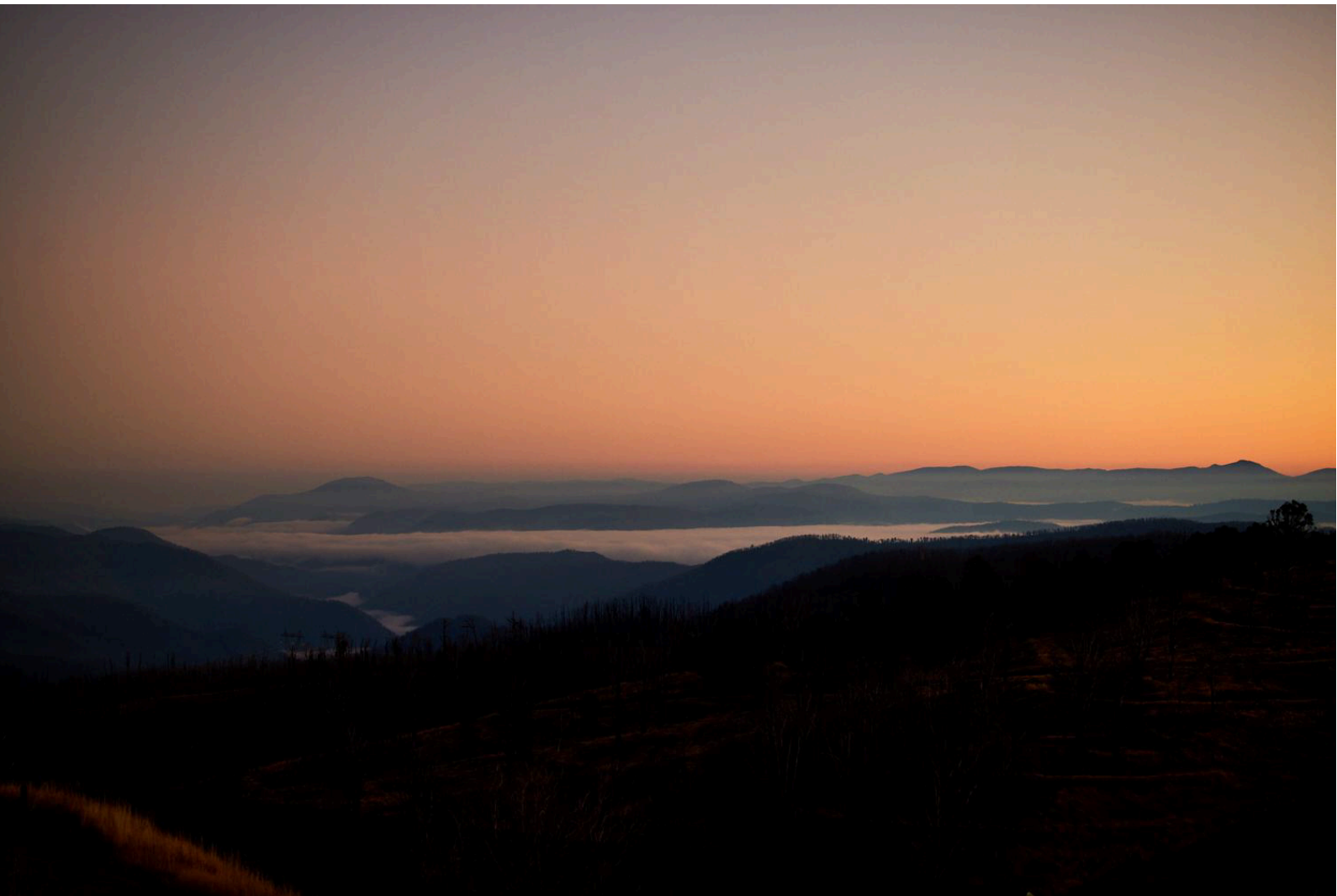




Snowy 2.0 - Annual Rehabilitation Report

June 2024 - May 2025



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Date: 31 July 2025

1. Introduction

This annual report provides an overview of the rehabilitation activities undertaken for the Snowy 2.0 project during the reporting period June 2024 to May 2025. In accordance with Schedule 3 Condition 10(k) of CSSI-9687 and condition 25 of EPBC 2018/8322, the purpose of this document is to publicly report on the following rehabilitation elements:

- Overall Rehabilitation progress.
- Rehabilitation of individual sites
- Implementation of site specific rehabilitation plans
- Progress against completion criteria
- Trigger Actions Response Plans (TARPs) Activations and implementation
- Monitoring Summary
- Future Rehabilitation Program

2. Rehabilitation Progress Overview

Due to the project still being in construction, limited areas have been made available for rehabilitation in the reporting period June 2024 to May 2025. The majority of the project site can be defined as being in the “Active rehabilitation” phase with Camps, laydowns and stockpile areas still in heavy use following clearing and topsoil stripping and stockpiling. This also includes large sections of the internal road network utilising the verge for utilities and sediment basins to manage surface water run off. Given the status of the site this report will primarily focus on the approved site specific rehabilitation plans.

Areas available for final rehabilitation included:

- Tantangara Creek Fish Weir - plan still undergoing consultation
- Tantangara Surface Depression

Areas available for partial or progressive rehabilitation included:

- Plateau - Gooandra Trail to Nungar Creek
- BH3203 & 3210
- BH4201 & 4202
- Marica - Main access road verge and waterways

Although the final agreement of design and development of rehabilitation plans for much of the road network is not yet available, progressive rehabilitation in the form of batter stabilisation has commenced for the following roads;

- Lobs Hole Ravine Road South
- Mine Trail road
- Quarry Trail Road

Below Table 1 outlines the areas currently undergoing progressive rehabilitation, the phase rehabilitation the site is currently undergoing and the works completed as per the individual site specific rehabilitation plan. It should be noted that although rehabilitation activities were

planned for Plateau - Nungar Creek to Tantangara Hill and Plateau - Tantangara Hill, they were not able to be undertaken due to ongoing construction activities in those areas.

Table 1: Overall progress summary for sites with approved rehabilitation plans

Site Specific sub Plan	Area	Rehabilitation phase	Completed as planned
Fish Weir	1.1 ha	Ecosystem and Land Use Development	Yes
Surface Depression	0.1 ha	Ecosystem and Land Use Development	No
Plateau - Gooandra Trail to Nungar Creek	10 ha	Ecosystem and Land Use Development	No
Plateau - Nungar Creek to Tantangara Hill	2.1 ha	Active <u>Not ready for rehabilitation</u>	No
Plateau - Tantangara Hill	1.3 ha	Active <u>Not ready for rehabilitation</u>	No
BH3203 & 3210	0.45 ha	Ecosystem and Land Use Development	Yes
BH4201 & 4202	0.69 ha	Ecosystem and Land Use Development	Yes
Marica Dip creek / Eucumbene river	0.35 ha	Ecosystem and Land Use Development	No

Regional locations of the sites under rehabilitation in the reporting period are shown in figures 1 and 2 in the following pages.



Figure 1 - Rehab Areas (Plateau and Tantangara Surface Depression location)

3. Rehabilitation of Individual Sites

This section details the rehabilitation progress for each site, including commentary on the implementation of the site specific rehabilitation plans, and effectiveness of mitigation and additional mitigation measures identified through the monitoring program.

3.1 Tantangara Creek Fish Weir

Rehabilitation Phase: Ecosystem Development and Land Use Establishment

Construction of the Tantangara Creek Fish Weir was completed in April 2025 allowing for primary rehabilitation activities to be undertaken prior to winter. This included reducing the size of the passing bays, topsoil placement, seeding and mulching of disturbed areas used to facilitate construction. **Figure 3** provides an aerial view of the main work site following seeding and straw application in May.



Figure 3 Tantangara Creek Fish Weir & Laydown - 300525

Below table 2 details the rehabilitation activities / tasks as per the approved plans and the status of completion.

Table 2 - Tantagara Creek Weir rehabilitation program

Sequence	Task	Timing	Rehabilitation Status
1	Access track verge reinstatement and topsoil spreading Obsolete passing bays reshaped, mulched, and seeded	March 2025	Complete
	Thatch applied at passing bays Watering of reinstated passing bays	April / May 2025	Partially complete
2	Weir site and laydown rehabilitation Diversion removal (Reshaping, topsoil placement seed and straw application). Thatch applied SMH to Eucumbene River Removal of road pavement and stockpiling of material for NPWS use (Reshaping, topsoil placement seed and straw application). Access control – Reinstatement of rocks	April /May 2025	Complete
3	Weed control of all areas Spring and summer prior to planting	Ongoing (November April)	Not commenced
4	Primary revegetation - (Tube stock planting for drainage line, passing bay 1 and laydowns pending weed load and monitoring results.	2025-2026 (November April)	Not Commenced
5	Secondary revegetation based on monitoring results	2026-2027 (November April)	Not Commenced

3.1.1 Mitigation Measures identified

At this point no additional measures are required, works to continue to plan

3.2 Tantangara Surface Depression

Rehabilitation Phase: Ecosystem Development and Land Use Establishment

Following the Mod 2 Approval and the subsequent approval of the Tantangara Surface Depression Rehabilitation Plan in April 2024, work commenced in May 2024 to backfill, shape, topsoil and stabilise the area. Jute matting was applied over winter to prevent erosion before hydromulch was applied. The area was completely sprayed out in April to control sweet vernal grass. Figure 4 provides an aerial view of the site following the spraying with figure 5 showing the application of hydromulch at the site.



Figure 4: Tantangara Surface Depression after weed treatment Date - 310525



Figure 5: Tantangara Surface Depression following hydromulch application Date- 230725

Below Table 3 details the rehabilitation activities / tasks as per the approved plans and the status of completion at the end of this reporting period.

Table 3 - Tantangara Surface Depression rehabilitation program

Sequence	Task	Timing	Status
1	Redmediation,back filling landforming	May 2024	Completed
2	Topsoil application Mulching and seeding	June 2024	Completed Not seeded jute matt applied
3	Weed Control	March 2025	Completed

4	Hydro mulch and dominant native grass seed applied	April /May 2025	Completed
5	Tubestock planting of priority species identified.	November 2024 - April 2025	Not Completed Due to delay in weed control and application of hydromulch
6	Thatching of site with local dead branches from previous clearing activities	November 2024 - April 2025	Not completed
7	Supplementary tubestock planting	November 2025 - April 2026	Not completed

3.2.1 Mitigation measures identified

Pending success of the sweet vernal spraying and the subsequent hydromulching, application of straw mulch and fencing to be undertaken following, spraying and the planting of tubestock in Spring 2025.

3.3 Plateau (Gooandra Trail to Nungrar Creek)

Rehabilitation Phase: Ecosystem Development and Land Use Establishment

The construction of the Gooandra to Nungar Creek section of Trunk Services has been largely complete since December 2023 with minor works remaining required to complete construction. During this time Hydromulching of the finished sections of Gooandra Trail was undertaken in April 2024 and tube stock planting of poa in May (see figure 6), unfortunately there has been limited germination and cover as a result of this treatment with cover yet to be established. Active Rehabilitation of the section between Nungar Creek and Tantangara and Tantangara Hill has yet to commence as there are still commissioning activities to be completed.

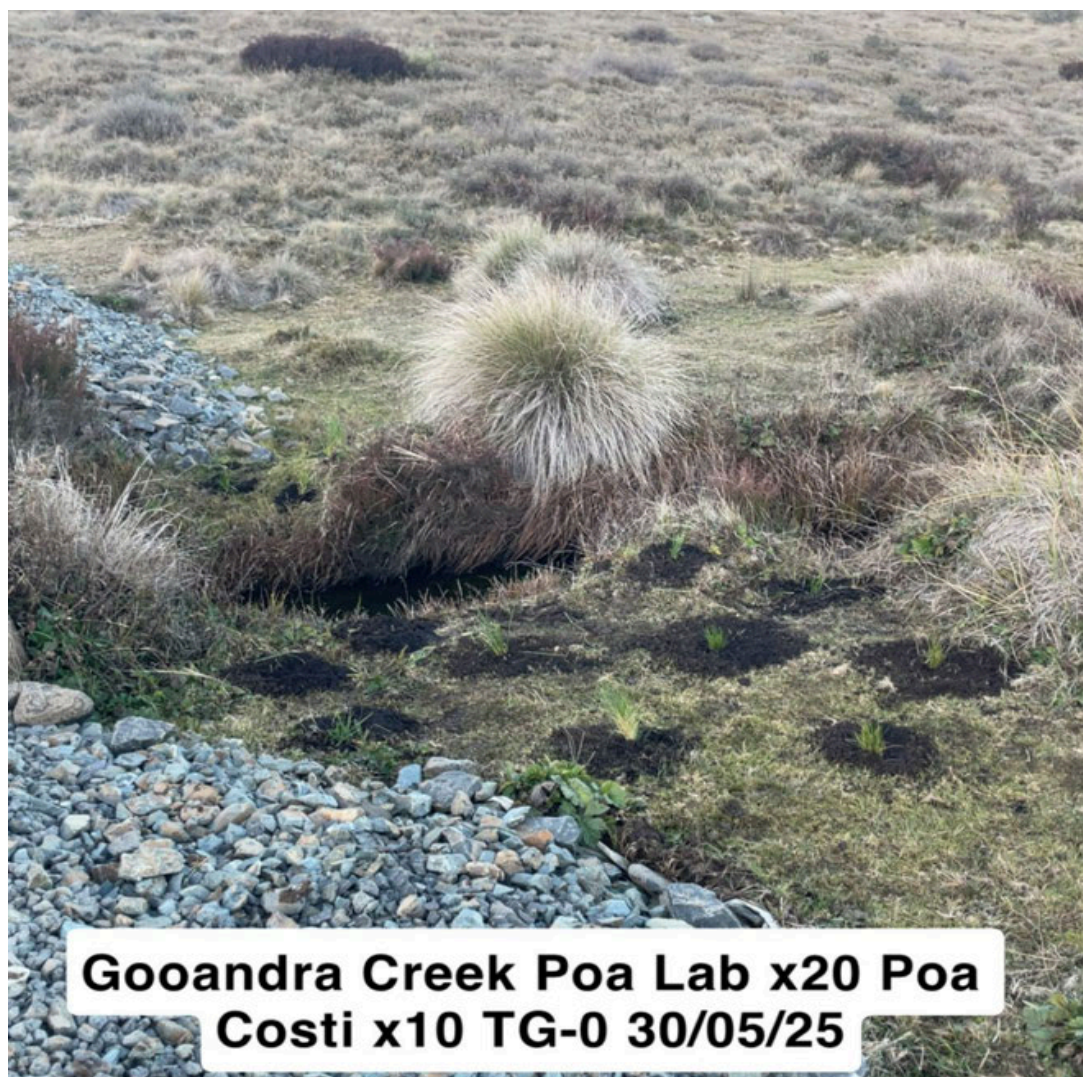


Figure 6 Gooandra Creek tube stock planting - Gooandra trail to Nungar Creek

Below Table 4 details the rehabilitation activities / tasks as per the approved plans and the status of completion at the end of this reporting period.

Table 4 Plateau rehabilitation activities

Sequence	Task	Timing	Status
1	Access track reinstatement, HDD and laydown pads, batter reinstatement and utilities installation Hydromulching of Marica to Nungar Creek	90% complete - September 2024	Partially complete Not Complete - Area not ready for rehabilitation
2	Tantangara Hill land forming Remaining topsoil placement & straw mulch or hydro mulching – Nungar Creek to Tantangara	2024 / 2025 (November – April)	Not Complete - Area not ready for rehabilitation
3	Primary Revegetation (drainage line, HDD pads and laydowns tube stock planting) and weed control of all areas including the trench alignment	2024/2025 (November – April)	Partially completed grass planted, shrubs to be planted in Spring
4	Secondary revegetation (additional direct seeding and tube stock planting for drainage line, HDD pads and laydowns) pending weed load and monitoring results. Tantangara Hill tubestock and direct seeding Direct seeding of alignment that has not been completed Tantangara Creek culvert installation and revegetation (to be undertaken in autumn 2025)	2024/2025 (November – April)	Not completed

3.3.1 Mitigation measures identified

Straw mulching of the laydown and underbore site is required with monitoring indicating that 59% of the site is bare ground. Additional growth medium in the form of a compost blanket may be required for areas of the alignment where germination of native grasses has not occurred.

3.4 Bore Hole sites 3203 & 3210

Rehabilitation Phase: Ecosystem Development and Land Use Establishment

The geotech borehole drilling of 3203 was completed in Feb 2021. Both sites including the access had topsoil, straw mulch and thatch applied (see figure 7) below for example of site condition). Following the initial rehabilitation the sites have undergone weed spraying and some tubestock planting. The narrow access track has meant there has been meaningful natural recruitment in this period. Continued monitoring of bogs and fens for incisions or drying is being conducted.



Figure 7 Bore hole 3203 - Date - 121225

Below Table 5 details the rehabilitation activities / tasks as per the approved plans and the status of completion at the end of this reporting period.

Table 5 BH3203 & 3210 Rehabilitation activities

Sequence	Task	Timing	Status
1	Weed control Drainage line tubestock	2024/2025 (November – April) Completed	Completed Not required
2	Revegetation (direct seeding pending weed load and monitoring results.	2024/2025 (November – April)	Not required adequate groundcover established
3	Supplementary tube stock	2024/2025 (November – April)	Completed

3.4.1 Mitigation measures identified

Weed control focus area BH3203 to 3210

3.5 Bore Hole sites 4201 & 4202

Rehabilitation Phase: Ecosystem Development and Land Use Establishment

The geotech borehole drilling of 4202 & 4210 was completed in Feb 2021. Both sites including the access had topsoil, straw mulch and thatch applied. Following the initial rehabilitation the sites have undergone weed spraying and some tubestock planting. The narrow access track has meant there has been meaningful natural recruitment in this period. As figure 8 demonstrates there is good cover with little bareground.



Figure 8 Bore hole 4202 - Date - 121225

Below Table 6 details the rehabilitation activities / tasks as per the approved plans and the status of completion at the end of this reporting period.

Table 6: BH 4201 & 4202 Rehabilitation activities

Sequence	Task	Timing	Status
1	Weed control	2024/2025 (November – April)	Ongoing

		Annually / Ongoing	
2	BH pad and Riparian zone tubestock	November/December 2024	Completed May 2025
3	Revegetation (direct seeding of BH4201 pending weed load and monitoring results. Additional thatch/mulch added to BH4201	2024/2025 (November – April)	Not completed
4	Supplementary tube stock (primarily in PCT 644)	2024/2025 (November – April)	Completed

3.5.1 Mitigation measures identified

Weed control focus area Wallace creek trail to Eucumbene

3.6 Marica Access and Waterways

Rehabilitation Phase: Ecosystem Development and Land Use Establishment



Figure 9 - Dip Creek

Marica main access road verge has been reinstated with topsoil and mulch, it was then hydromulched in March 2024 using native seed and the sediment basins at Eucumbene and Dip Creek removed. Jute mesh was also applied to the batters for interim stabilisation at the waterways. Initial tube stock planting has also been undertaken as seen in figure 9.

Below Table 7 details the rehabilitation activities / tasks as per the approved plans and the status of completion at the end of this reporting period.

Table 7 - Marica rehabilitation activities

Sequence	Task	Timing	Status
1	Tubestock planting – Dip Creek and Eucumbene River	November 2024	Partially completed only grasses / sedge

2	Temporary access track compaction relief	Following construction	Not applicable for reporting period
3	Topsoil and mulching	(As required if any rework identified)	Not applicable for reporting period
4	Weed control	(November – April) plus ongoing as required	Ongoing
5	Revegetation (direct seeding/hydro mulching)	Following topsoil application (November – April)	Not applicable for reporting period
6	Supplementary tube stock	November – April	Not applicable for reporting period

4. Progress Against Completion Criteria and Performance Indicators

The final completion criteria is detailed in Appendix A with the numbering assigned to each of benchmark indicators. Each site's progression against the benchmark indicators are then tabled in Appendix B - Individual site progression against completion criteria with commentary on this year's progress against benchmark indicators. Given the stage of rehabilitation, only interim completion criteria are able to be assessed with the majority of sites reported sitting in the Ecosystem and Land Use development phase of rehabilitation.

5. Trigger Action Response Plan (TARP) Activation and Actions

No formal activation of tarps have been undertaken during the reporting period

However as part of the annual review of topsoil inventory and monitoring has indicated that there is a topsoil deficiency at the following locations:

- Lobs hole - Current stockpiles will meet coming years requirements
- Plateau - No additional topsoil available for areas of failed vegetation

As per Table 10.2 Trigger Response plan first level trigger SHL is investigating options to meet future requirements.

In the short term (next 6 months) a compost blanket will be applied in areas where topsoil is not currently available; this will include sections of the Plateau where hydromulching has not been successful.

Investigation of growth medium development for Lobs Hole to be undertaken

6. Monitoring Data Summary

- **Drone Summary Data:**

Unmanned Aerial Vehicle (UAV) monitoring was undertaken during December 2025 this reporting period with the previous survey conducted over December 2024 and January 2025. Where possible data from this year's survey is compared to the previous years survey data to assess progression; however due to some inconsistencies in the survey boundaries and data capture over the 2 monitoring periods this was not always possible.

Currently there is 1100 hectares of imagery captured with a large proportion of the data captured outside of the project footprint to build a dataset for comparison in future years with reference site data captured as part of the ecological monitoring program. To allow analysis target areas have been created within the broader project areas to allow for analysis of the parameters specific to the rehabilitation area.

As areas are handed over for rehabilitation the survey area will be increased

Key monitoring parameters captured to measure and assess rehabilitation success include:

- PCT variation - (Not assessed this monitoring period)
- Weed abundance -
- Native species composition/cover/structure/health,
- Bare ground
- Erosion
- Habitat features presence
- Human disturbance

See Table 8 overpage for a summary of monitoring results for each active site, data and associated imagery can be found in Appendices C - H

Table 8 - Monitoring summary active rehabilitation sites

Site Specific sub Plan	Survey data notes	Bare Ground % total coverage	Weeds % Total coverage	Natives Individuals identified	Erosion	Rubbish
Tantangara Creek Fish Weir	No data collected in this monitoring period	NA	NA	NA	NA	NA
Tantangara Surface Depression Appendix C	Jan 2024 data did not include entire area	24.5%	87.7% Sweet vernal & Spear thistle	Nil identified	Nil identified	Nil
Plateau - Gooandra Trail to Nungar Creek Appendix D	Jan 2024 data did not Gooandra trail road or reinstated area parallel to SMH	59% average Of active sites	+ 4% Over entire survey area see appendix for individual sites	Nil identified	Nil identified	+ 3% 179 pieces across survey area
BH3203 & 3210 Appendix E	Unable to compare data sets over 2 surveys	0% Minimal bareground visible at BH pads	7.65%	262 individuals	Nil identified	Nil
BH4201 & 4202 Appendix F	Unable to compare data sets over 2 surveys	7.4%	6.4 %	505 individuals	Nil identified	1 piece
Marica Eucumbene river	Survey boundary not consistent. Areas increased in size	51% + 25 %	1.1% - 50% on last survey	NA	Nil identified	Nil

Appendix G						
Dip creek Appendix H	Survey data recording jute mesh as bare ground . Unable to compare data sets over 2 surveys	76%	3% total	NA		Nil

- **Quarterly Monitoring Reports:**

No formal quarterly monitoring has been undertaken in the reporting period

- **Ecological Monitoring:** If applicable for the reporting period (every 3 years),

No ecological monitoring has been undertaken in the reporting period due to the short time frame from approval of the Main works Rehabilitation plan Approval in late October and the monitoring season. Suitably experienced Alpine ecologists have already committed to programs for the 2024/2025 monitoring season.

Baseline monitoring including reference sites is planned for the 2025 / 2026 monitoring period.

7. Future Rehabilitation Program

With construction still ongoing the rehabilitation program will focus on vegetation, cover and maintenance of the areas listed in this year's report. Additionally it is expected that a number of additional sites will be ready for rehabilitation.

Below is draft program for the 2025 - 2026 season detailing ongoing rehabilitation activities and new areas

Ongoing works

- Tantangara Creek Fish Weir - Tube stock planting, maintenance and weed control
- Tantangara Surface Depression - Tube stock planting, maintenance and weed control
- BH3203 & 3210 -Tube stock planting, maintenance and weed control
- BH4201 & 4202 -Tube stock planting, maintenance and weed control
- Gooandra Trail to Nungar Creek - Tube stock planting and mulching, weed control
- Marica main access road verge and waterways - Tube stock planting, maintenance and weed control

Sites Ready for Rehabilitation 2025 - 2026

- Lobs Hole - Site entrance Stage 5
- Lobs Hole - GF01
- Talbingo - Ravine Bay Spoil emplacement
- Lobs Hole - Ravine Road South
- Tantangara - Quarry Trail Road
- Plateau - Nungar Creek to Tantangara Hill
- Plateau - Tantangara Hill
- Marica Access Tracks and drill pads

Appendix A- Completion Criteria

Table 9 Completion Criteria - Including numbered indicator benchmarks

Final Land Use Domain	Active Domain	Rehabilitation Objective (desired feature and/or characteristics of the final land use domain)	Indicator (specific attribute associated with the objective)	Rehabilitation Completion Criteria (benchmark for the indicator, based on reference data where appropriate) Derived from COA schedule 3 condition 9 (table 4)	Record/Justification/Validation Method (evidence that the benchmark has been achieved)
Phase 1 - Active					
All domains	All domains	Minimise risk of injury to people and animals	Appropriate security measures implemented (where required) prior to commencing works.	1.1 Appropriate security measures in place.	Risk assessment completed and actioned
		Minimise the impact of vegetation clearance activities on flora and fauna	Appropriate measures have been implemented (where required) to minimise the impact on flora and fauna	1.2 Pre-clearance surveys undertaken and disturbance / no go areas demarcated.	Pre-clearance records
		Erosion will be managed	Erosion and sediment controls	1.3 Erosion and sediment control structures have been progressively installed and maintained during disturbance in accordance with the site Erosion and Sediment Control Plans.	Site records and reports Erosion and Sediment Control Plans
		Topsoil and subsoil will be appropriately stripped and managed for use in rehabilitation	Soil resource available for rehabilitation	1.4 Topsoil and subsoil stripped and stockpiled in accordance with requirements stipulated in the Rehabilitation Management Plan and Topsoil Strategy.	Site records and reports Soil inventory

Final Land Use Domain	Active Domain	Rehabilitation Objective (desired feature and/or characteristics of the final land use domain)	Indicator (specific attribute associated with the objective)	Rehabilitation Completion Criteria (benchmark for the indicator, based on reference data where appropriate) Derived from COA schedule 3 condition 9 (table 4)	Record/Justification/Validation Method (evidence that the benchmark has been achieved)
		Seeds, sods or cuttings have been collected from appropriate PCTs for use in final rehabilitation	Appropriate seed is available for rehabilitation.	1.5 Appropriate seeds, sods or cuttings have been collected from appropriate PCTs for use in final rehabilitation and established for use as required.	Site records and reports Seed inventory
		Employ interim rehabilitation strategies to areas that can't be permanently rehabilitated yet to minimise dust generation, erosion, uncontrolled discharges of sediment, minimise visual impact where appropriate and the spread of weeds to other parts of the Kosciuszko National Park	Installation of interim rehabilitation measures	1.6 Appropriate interim rehabilitation measures including erosion and sediment controls have been progressively installed and maintained during disturbance. This may include weed control, mulching, hydromulching seeding , planting	Site records, inspections and reports
Phase 2 – Decommissioning and Demolition					

Final Land Use Domain	Active Domain	Rehabilitation Objective (desired feature and/or characteristics of the final land use domain)	Indicator (specific attribute associated with the objective)	Rehabilitation Completion Criteria (benchmark for the indicator, based on reference data where appropriate) Derived from COA schedule 3 condition 9 (table 4)	Record/Justification/Validation Method (evidence that the benchmark has been achieved)
All domains	1 - Infrastructure	Decommission and remove infrastructure, unless NPWS agrees otherwise	All services, including power, water, data and telephone, that are not required for final land use have been safely isolated, disconnected and terminated.	2.1 All utility infrastructure removed.	Site records and reports
			All surface and subsurface infrastructure that is not required for the final land use dismantled and removed from the site. Unless approved by NPWS to remain	2.2 All redundant infrastructure removed.	Statement provided and before/after photos.
			All surface entries and tunnels have been closed and sealed	2.3 All surface entries and tunnels not required for operational access have been closed and sealed to prevent public access.	Engineered design and final construction reports, closure records
			Infrastructure to be retained is agreed with NPWS	2.4 The infrastructure proposed for retention is acknowledged by NPWS.	Written agreement for retained infrastructure from NPWS
B - Roads	2 – Access Roads	Restore all roads onsite in accordance with the Long-Term Road Strategy	Retained roads and access tracks are stabilised and restored.	2.5 Stabilisation of roads and access tracks complete.	As-constructed final landform plan, photos etc. Plans for all non-exclusive SHL roads to be provided to NPWS

Final Land Use Domain	Active Domain	Rehabilitation Objective (desired feature and/or characteristics of the final land use domain)	Indicator (specific attribute associated with the objective)	Rehabilitation Completion Criteria (benchmark for the indicator, based on reference data where appropriate) Derived from COA schedule 3 condition 9 (table 4)	Record/Justification/Validation Method (evidence that the benchmark has been achieved)
A – Retained Infrastructure B – Roads C – Recreation Sites	1 – Infrastructure 2 – Access Roads	Unless the Proponent and the applicable authority agree otherwise, the Proponent must: (a) repair, or pay the full cost associated with repairing, any public infrastructure that is damaged by the development; and (b) relocate, or pay the full cost associated with relocating, any public infrastructure that needs to be relocated as a result of the development.	All public infrastructure damaged by the project is repaired/relocated and is safe and stable for use.	2.6 Repair / relocation works complete.	Post construction survey Applicable authority agency agreement

Final Land Use Domain	Active Domain	Rehabilitation Objective (desired feature and/or characteristics of the final land use domain)	Indicator (specific attribute associated with the objective)	Rehabilitation Completion Criteria (benchmark for the indicator, based on reference data where appropriate) Derived from COA schedule 3 condition 9 (table 4)	Record/Justification/Validation Method (evidence that the benchmark has been achieved)
All domains	All domains	Land and Water Contamination: There is no residual soil contamination on site that is incompatible with the final land use or that poses a threat of environmental harm.	Waste material systematically removed from site during construction and/or visible contamination areas on site surface are removed.	2.7 There are no visible signs of contamination following the removal of plant, equipment and materials. No inadvertent burial of contaminated materials All rubbish/ waste materials removed from site.	Contamination reports. Written statement. Photographic records Waste facility receipts.
		Contaminated areas are identified and remediated, removed or otherwise managed	Contaminated soils presenting constraints to final land use have been identified and remediated or removed from the areas to be rehabilitated or appropriately managed (in accordance with legislation and EPL).	2.8 Contaminated areas are identified and remediated, removed or otherwise managed	Contamination reports. Written statement. Photographic records Waste facility receipts. Contamination reports provided to appropriate agencies

Final Land Use Domain	Active Domain	Rehabilitation Objective (desired feature and/or characteristics of the final land use domain)	Indicator (specific attribute associated with the objective)	Rehabilitation Completion Criteria (benchmark for the indicator, based on reference data where appropriate) Derived from COA schedule 3 condition 9 (table 4)	Record/Justification/Validation Method (evidence that the benchmark has been achieved)
A – Retained Infrastructure B – Roads C – Recreation Sites D – Native Vegetation	4 - Stockpiles	All Potential Acid Forming (PAF) materials are identified and remediated, removed or otherwise managed	PAF materials areas are identified and remediated, removed or otherwise managed	2.9 PAF material tested to confirm it is suitable to remain in situ and any hostile materials remediated, removed from the areas to be rehabilitated, or appropriately managed. Subject to testing indicating it is non PAF and meets all requirements of the spoil management plan the material may be disposed of sub-aqueously. Materials managed in accordance with EPL	Geochemical test results and/or remediation and verification, rehabilitation, or disposal records
Phase 3 – Landform Establishment					

Final Land Use Domain	Active Domain	Rehabilitation Objective (desired feature and/or characteristics of the final land use domain)	Indicator (specific attribute associated with the objective)	Rehabilitation Completion Criteria (benchmark for the indicator, based on reference data where appropriate) Derived from COA schedule 3 condition 9 (table 4)	Record/Justification/Validation Method (evidence that the benchmark has been achieved)
C – Recreation Sites D – Native Vegetation	1 - Infrastructure 2 - Roads 4 - Stockpiles	The final landform is stable for the long-term and does not present a risk of environmental harm downstream/downslope of the site or a safety risk to the public/stock/native fauna. Landform is commensurate with surrounding natural landform.	Landform constructed to design	3.1 Landform survey verifies constructed landform safe and stable and is generally in accordance with the approved landform detailed design.	Detailed design - use of heat map to compare as-built levels with design levels. “Significant” deviations from the design gradient assessed using static erosion risk assessments and adjustments made to the final capping layer if required. Visual inspection including photographic documentation of any rills or gullies of concern. As constructed survey to verify features such as drainage lines.
			Indicators of erosion and land instability. Indicators that surface water management structures are functioning as designed.	3.2.1 Rehabilitated slopes are free draining with appropriate drainage in place so that water will not undermine the structure in the long term. 3.2.2 No visual signs of land instability such as mass movement. 3.2.3 No gullies, tunnel erosion features or rills > 300mm deep or wide.	
			Drainage structures are constructed to design and specification	3.3 Final landform drainage structures including drains, banks, drop structures and dams constructed in accordance with best practice site specific erosion and sediment control requirements where required .	

Final Land Use Domain	Active Domain	Rehabilitation Objective (desired feature and/or characteristics of the final land use domain)	Indicator (specific attribute associated with the objective)	Rehabilitation Completion Criteria (benchmark for the indicator, based on reference data where appropriate) Derived from COA schedule 3 condition 9 (table 4)	Record/Justification/Validation Method (evidence that the benchmark has been achieved)
C – Recreation Sites D – Native Vegetation	4 - Stockpiles	Landform has been constructed in accordance with the Design Objectives for Permanent Spoil Emplacement Areas (Table 2 of CSSI 9687)	Slope, aspect, height, geomorphic design indicators (static erosional assessment) as calibrated against the LEM modelling	3.4 Landform survey verifies constructed landform safe and stable and is generally in accordance with the approved landform detailed design.	Use of high-density LiDAR (minimum 20points/m2) on an annual or bi-annual basis to verify erosion rates and overall stability. Frequency to be reduced as acceptable trends are established.
				3.5 Landform meets the Emplacement Area Completion Criteria specified in the relevant Spoil Management Plan	Assessment records, including Wolman counts on the rock drain after construction to demonstrate adequacy of rock grading.
		Landform that is commensurate with surrounding natural landform.	Slope, aspect, height, geomorphic design indicators	3.6 Landform survey verifies constructed landform is generally in accordance with the approved landform detailed design.	Verification of level of basal cover achieved by the vegetation where relevant
Phase 4 – Growth Medium Development					
C – Recreation Sites D – Native Vegetation	All domains	Growth media appropriate for the intended final land use is reinstated at all rehabilitation areas.	Growth media application and depth	4.1 Topsoil or suitable alternative is spread in designated areas at the specified depth appropriate to the final land use.	Rehabilitation records Landform survey
	4 – Stockpiles	Growth media characterised and ameliorated for final land use as required	Soil/spoil quality parameters	4.2 Areas of benign excavated material utilised for targeted native vegetation are characterised as suitable for vegetation establishment	Soil testing results Rehabilitation records

Final Land Use Domain	Active Domain	Rehabilitation Objective (desired feature and/or characteristics of the final land use domain)	Indicator (specific attribute associated with the objective)	Rehabilitation Completion Criteria (benchmark for the indicator, based on reference data where appropriate) Derived from COA schedule 3 condition 9 (table 4)	Record/Justification/Validation Method (evidence that the benchmark has been achieved)
				4.3 Soil ameliorants (e.g. gypsum, mulch, biosolids, composts) are applied where necessary at the recommended application rate based on soil analysis.	Soil testing results Rehabilitation records
Phase 5 – Ecosystem and Land Use Development					
D – Native Vegetation	All domains	Ground cover comparable to reference vegetation communities.	Direct seeding rate	5.1 Direct seeding has been undertaken at the specified rate (t/ha) to provide sufficient ground coverage once established.	Planting records
			Plant density and ground cover	5.2 Rehabilitation plantings have been planted at the specified density (plants/ha) to provide sufficient ground coverage once established.	Planting records Meeting completion criteria
		Community structure/species composition is comparable to reference vegetation communities	Community composition	5.3 A mixture of native trees, shrubs and grasses generally commensurate with that in the appropriate PCT(s) has been seeded/planted in accordance with specifications.	Planting records Meeting completion criteria

Final Land Use Domain	Active Domain	Rehabilitation Objective (desired feature and/or characteristics of the final land use domain)	Indicator (specific attribute associated with the objective)	Rehabilitation Completion Criteria (benchmark for the indicator, based on reference data where appropriate) Derived from COA schedule 3 condition 9 (table 4)	Record/Justification/Validation Method (evidence that the benchmark has been achieved)
C – Recreation Sites	All domains	Recreational sites have been seeded / landscaped as agreed with NPWS and specified in the Recreation Management Plan and /or future master plans	Ground cover	5.4 Landform survey assessment confirms recreational sites have been seeded / landscaped in accordance with the agreed master plan.	Planting and rehabilitation records NPWS Agreement that works have been completed as per agreed criteria
All domains	All domains	Erosion does not present a safety hazard or compromise the post construction land capability.	Indicators of erosion and land instability.	5.5 No erosion features (greater than 500 mm depth) that compromise land capability or the final post construction land use.	Rehabilitation monitoring records
		Weeds and animals do not present a risk to rehabilitation	Weed density	5.6 Weed density in rehabilitation areas is comparable with reference sites.	Weed presence in rehabilitation monitoring and site inspection records
			Grazing animal impacts	5.7 Plantings have been installed with appropriate vegetation protection implemented.	Site specific rehabilitation plans Planting records Site inspection reports
Phase 6 – Ecosystem and Land Use Sustainability					

Final Land Use Domain	Active Domain	Rehabilitation Objective (desired feature and/or characteristics of the final land use domain)	Indicator (specific attribute associated with the objective)	Rehabilitation Completion Criteria (benchmark for the indicator, based on reference data where appropriate) Derived from COA schedule 3 condition 9 (table 4)	Record/Justification/Validation Method (evidence that the benchmark has been achieved)
D - Native Vegetation	All domains	Ecological rehabilitation objective 1: The vegetation composition of the rehabilitation is recognisable as the target vegetation community contained within the BioNet Vegetation Classification and which was present on site prior to the project's temporary disturbance. (As per CSSI 9687 Schedule 3 Condition 9)	All native vascular plant species are monitored to species level from fixed 0.04 ha monitoring plots in accordance with the BAM, transect intercept method, and/or other method approved by the Planning Secretary. Monitoring should include appropriate reference sites outside the disturbance area, ideally capturing the range of variation of the 2003 and 2019/20 fires.	6.1(a) Native plant species composition is characteristic of the target PCT based on suitable analysis against a reference data set using the PCT Assignment Tool 6.2(b) The target PCT BAM composition score is within or greater than the inter-quartile range of local reference site values for the assigned PCT. 6.3 Site specific rehabilitation plans include species list for either direct seeding or tube stock planting of key species identified for the relevant PCTs based on both the Biodiversity Development Assessment Report (BDAR) and specialist input	Rehabilitation monitoring reports Final Independent ecological reports) that validate rehabilitation completion criteria have been met Site specific rehabilitation plans

Final Land Use Domain	Active Domain	Rehabilitation Objective (desired feature and/or characteristics of the final land use domain)	Indicator (specific attribute associated with the objective)	Rehabilitation Completion Criteria (benchmark for the indicator, based on reference data where appropriate) Derived from COA schedule 3 condition 9 (table 4)	Record/Justification/Validation Method (evidence that the benchmark has been achieved)
D - Native Vegetation	All domains	Ecological rehabilitation objective 2: The vegetation structure of the rehabilitation is recognisable as, or shows a substantial trend towards, a PCT contained within the BioNet Vegetation Classification and which was present on site prior to the project's temporary disturbance.	The cover, abundance and height range of all native vascular plant species are monitored from fixed 0.04 ha monitoring plots in accordance with the BAM, transect intercept method, and/or other method approved by the Planning Secretary.	6.4 Cover, abundance and height range of native plant growth forms are characteristic of the target PCTs and within or greater than the inter-quartile range of local reference site values for the assigned PCT.	Rehabilitation monitoring reports Final Independent ecological reports that validate rehabilitation completion criteria have been met

Final Land Use Domain	Active Domain	Rehabilitation Objective (desired feature and/or characteristics of the final land use domain)	Indicator (specific attribute associated with the objective)	Rehabilitation Completion Criteria (benchmark for the indicator, based on reference data where appropriate) Derived from COA schedule 3 condition 9 (table 4)	Record/Justification/Validation Method (evidence that the benchmark has been achieved)
D - Native Vegetation	All domains	Ecological rehabilitation objective 3: Levels of ecosystem function have been established that demonstrate the rehabilitation is self-sustainable or shows a substantial trend towards a self-sustaining state.	Growth medium, covering both subsoil and topsoil properties, and soil processes are monitored using methods approved by the Planning Secretary.	6.5 Growth medium, including topsoil, is suitable for target PCTs establishment, and indicators of nutrient cycling are suitable for sustaining the target PCTs. 6.6 All priority attributes of nutrient cycling, soil processes and both subsoil and topsoil properties should be within or greater than the interquartile range of local reference site values for the assigned PCT. Attributes include; depth of leaf litter, cryptograms Total Carbon and total Nitrogen	Rehabilitation monitoring reports Final Independent ecological reports that validate rehabilitation completion criteria have been met
			All species are monitored for establishment of second-generation juveniles /immatures and capacity for recruitment from fixed 0.04 ha monitoring plots in accordance with the BAM, transect intercept method, and/or other method approved by the Planning Secretary	6.7 Rehabilitation vegetation communities are maturing, and natural recruitment is occurring for species within each growth form at rates within or greater than the interquartile range of local reference site values for the assigned PCT.	Rehabilitation monitoring reports Final Independent ecological reports that validate rehabilitation completion criteria have been met

Final Land Use Domain	Active Domain	Rehabilitation Objective (desired feature and/or characteristics of the final land use domain)	Indicator (specific attribute associated with the objective)	Rehabilitation Completion Criteria (benchmark for the indicator, based on reference data where appropriate) Derived from COA schedule 3 condition 9 (table 4)	Record/Justification/Validation Method (evidence that the benchmark has been achieved)
			Number and ground cover of weed species are monitored from fixed 0.04 ha monitoring plots in accordance with the BAM, transect intercept method, and/or other method approved by the Planning Secretary.	6.8 The number and ground cover of weed species is comparable to, or less than, the interquartile range of local reference site values for the assigned PCT. 6.9 Monitoring program to feed into annual weed control program	Rehabilitation monitoring reports Weed control program records
			Presence/absence of some fauna habitat features (e.g. flowering plant, decorticated bark, stags with hollows and/or nest boxes) and quantitative assessment of other features (e.g. leaf litter cover, bare ground, wood debris) are monitored from fixed 0.04 ha monitoring plots in accordance with the BAM, transect intercept method and/or other method approved by the Planning Secretary.	6.10 Fauna habitat features and resources (food and shelter characteristics) within the rehabilitation vegetation communities are present and within or greater than the interquartile range of local reference site values for the assigned PCT. 6.11 Site specific rehabilitation plans include target quantities of stags and hollows based on the interquartile range of appropriate PCTs based on the BDAR survey	Rehabilitation monitoring reports Site specific rehabilitation plans Final Independent ecological reports that validate rehabilitation completion criteria have been met

Final Land Use Domain	Active Domain	Rehabilitation Objective (desired feature and/or characteristics of the final land use domain)	Indicator (specific attribute associated with the objective)	Rehabilitation Completion Criteria (benchmark for the indicator, based on reference data where appropriate) Derived from COA schedule 3 condition 9 (table 4)	Record/Justification/Validation Method (evidence that the benchmark has been achieved)
D - Native Vegetation	All domains	Rehabilitation areas are healthy, sustainable and comparable with surrounding vegetation community	Resilience demonstrated by the effects of drought and fire on composition, structure and other function attributes.	6.12 Resilience to drought and fire.	Rehabilitation monitoring reports
			Animal impacts	6.13 Vertebrate pest species – presence and damage is recorded and controlled. 6.14 Domesticated stock - presence and damage is recorded and controlled.	Rehabilitation monitoring reports Site Inspections
All domains	All domains	Bushfire: The risk of bushfire and impacts to the community, environment and infrastructure has been addressed as part of rehabilitation.	Appropriate relevant controls demonstrated in accordance with Bushfire management plan	6.15 Bushfire controls including Asset Protection Zones (APZs) implemented.	Statement provided and before/after photos.

Final Land Use Domain	Active Domain	Rehabilitation Objective (desired feature and/or characteristics of the final land use domain)	Indicator (specific attribute associated with the objective)	Rehabilitation Completion Criteria (benchmark for the indicator, based on reference data where appropriate) Derived from COA schedule 3 condition 9 (table 4)	Record/Justification/Validation Method (evidence that the benchmark has been achieved)
E - Water Management	6 - Water Management	Surface Water: Runoff water quality from project site is similar to, or better than the pre-disturbance runoff water quality.	Water quality parameters as specified in the EPL	6.16 Water quality discharged from rehabilitated area meet specifications in EPL	Water quality monitoring reports. Independent hydrological assessment report.

Appendix B - Individual site progression against completion criteria

Table 10 Tantangata Fish Weir progress against completion criteria

Rehabilitation Objective Indicator	Completion Criteria Benchmark Reference	Progress against criteria	Comment
Phase 1 - Active			
Security measure implemented	1.1	Completed	
Impacts to flora / fauna mitigated	1.2	Completed	
Erosion controls	1.3	Completed	
Topsoil retained	1.4	Completed	
SEED available	1.5	Partially complete	Seed collected and available for initial ecosystem development
Interim rehab measures	1.6	Completed	
Phase 2 – Decommissioning and Demolition			
Utility removal	2.1	Completed	
Infrastructure removal	2.2	Completed	
Surface entries sealed	2.3	Not applicable	
Agreed Infrastructure NPWS	2.4	Partially complete	Plan not formerly approved
Agreed roads restored	2.5	Partially complete	
Infrastructure repaired	2.6	Completed	
Waste removed	2.7	Completed	
Contamination remediated	2.8	Completed	
PAF management	2.9	Not applicable	No PAF
Phase 3 – Landform Establishment			
Landform design	3.1	Not applicable	
Landform stability drainage	3.2.1	Completed	
Landform Stability mass movement	3.2.2	Completed	
Erosion > 300mm deep / wide	3.2.3	Completed	
Drainage to design	3.3	Completed	
LEM calibrated to design	3.4	Not applicable	Not required
Land form spoil completion criteria	3.5	Not applicable	Not required
Landform commensurate with surrounds	3.6	Completed	
Phase 4 – Growth Medium Development			
Growth media application	4.1	Completed	Topsoil respread
Material characterisation	4.2	Not applicable	Only topsoil reused as growth medium

Ameliorants applied where necessary	4.3	Not applicable	Only topsoil reused as growth medium
Phase 5 – Ecosystem and Land Use Development			
Direct seeding to plan	5.1	Completed	Direct seeding undertaken
Groundcover density to plan	5.2	Partially complete	Initial seeding undertaken not yet established
Community composition (structure)	5.3	No yet complete	
Recreation areas landscaping	5.4	Not applicable	No recreation
Erosion land stability	5.5	Completed	
Weed density comparable	5.6	No yet complete	
Animal impact managed	5.7	No yet complete	
Phase 6 – Ecosystem and Land Use Sustainability			
Native Plant composition characteristic of PCT	6.1	No yet complete	Reference sites not established
Target PCT range met	6.2	No yet complete	Reference sites not established
Site specific plan species list	6.3	Partially complete	Interim list included in site specific plan
Vegetation structure characteristic of PCT	6.4	No yet complete	Reference sites not established
Growth medium suitable for PCT establishment	6.5	No yet complete	
Growth medium priority attributes within interquartile range	6.6	No yet complete	Reference sites not established
Maturing of vegetation community	6.7	No yet complete	Reference sites not established
Weed density comparable to interquartile range	6.8	No yet complete	Reference sites not established
Monitoring program fed into annual weed control program	6.9	Partially complete	Included in control program
Habitat features present	6.10	No yet complete	Reference sites not established
Site specific plans habitat measures	6.11	No yet complete	
Resilience to drought and fire	6.12	No yet complete	Reference sites not established
Vertebrate impacts controlled	6.13	No yet complete	No impacts to date
Domestic stock impacts controlled	6.14	No yet complete	No impacts to date
Bushfire controls demonstrated	6.15	No yet complete	
Water quality parameters met	6.16	No yet complete	

Table 11 Tantangara Surface Depression progress against completion criteria

Rehabilitation Objective Indicator	Completion Criteria Benchmark Reference	Progress against criteria	Comment
Phase 1 - Active			
Security measure implemented	1.1	Completed	
Impacts to flora / fauna mitigated	1.2	Completed	
Erosion controls	1.3	Completed	
Topsoil retained	1.4	Completed	
SEED available	1.5	Partially complete	Seed collected and available for initial ecosystem development
Interim rehab measures	1.6	Completed	
Phase 2 – Decommissioning and Demolition			
Utility removal	2.1	Not applicable	
Infrastructure removal	2.2	Not applicable	
Surface entries sealed	2.3	Completed	Surface Depression sealed
Agreed Infrastructure NPWS	2.4	Completed	As per plan
Agreed roads restored	2.5	Not applicable	
Infrastructure repaired	2.6	Not applicable	
Waste removed	2.7	Completed	
Contamination remediated	2.8	Completed	
PAF management	2.9	Not applicable	
Phase 3 – Landform Establishment			
Landform design	3.1	Completed	As per section 3.2 of plan
Landform stability drainage	3.2.1	Completed	As per section 3.3 of plan
Landform Stability mass movement	3.2.2	Completed	
Erosion > 300mm deep / wide	3.2.3	Completed	
Drainage to design	3.3	Completed	
LEM calibrated to design	3.4	Not applicable	Not required
Land form spoil completion criteria	3.5	Not applicable	Not required
Landform commensurate with surrounds	3.6	Completed	
Phase 4 – Growth Medium Development			
Growth media application	4.1	Completed	
Material characterisation	4.2	Completed	As per Appendix A
Ameliorants applied where necessary	4.3	Not applicable	Not required

Phase 5 – Ecosystem and Land Use Development			
Direct seeding to plan	5.1	Completed	
Groundcover density to plan	5.2	No yet complete	
Community composition (structure)	5.3	No yet complete	
Recreation areas landscaping	5.4	Not applicable	
Erosion land stability	5.5	Completed	Site is stable
Weed density comparable	5.6	No yet complete	
Animal impact managed	5.7	No yet complete	
Phase 6 – Ecosystem and Land Use Sustainability			
Native Plant composition characteristic of PCT	6.1	No yet complete	Reference sites not established
Target PCT range met	6.2	No yet complete	Reference sites not established
Site specific plan species list	6.3	Partially complete	Interim list included in site specific plan
Vegetation structure characteristic of PCT	6.4	No yet complete	Reference sites not established
Growth medium suitable for PCT establishment	6.5	No yet complete	
Growth medium priority attributes within interquartile range	6.6	No yet complete	Reference sites not established
Maturing of vegetation community	6.7	No yet complete	Reference sites not established
Weed density comparable to interquartile range	6.8	No yet complete	Reference sites not established
Monitoring program fed into annual weed control program	6.9	Partially complete	Included in control program
Habitat features present	6.10	No yet complete	Reference sites not established
Site specific plans habitat measures	6.11	No yet complete	
Resilience to drought and fire	6.12	No yet complete	Reference sites not established
Vertebrate impacts controlled	6.13	No yet complete	No impacts to date
Domestic stock impacts controlled	6.14	No yet complete	No impacts to date
Bushfire controls demonstrated	6.15	No yet complete	
Water quality parameters met	6.16	No yet complete	

Table 12 - Plateau progress against completion criteria

Rehabilitation Objective Indicator	Completion Criteria Benchmark Reference	Progress against criteria	Comment
Phase 1 - Active			
Security measure implemented	1.1	Completed	
Impacts to flora / fauna mitigated	1.2	Completed	
Erosion controls	1.3	Partially complete	
Topsoil retained	1.4	Partially complete	
SEED available	1.5	Partially complete	Seed collected and available for ecosystem development
Interim rehab measures	1.6	Partially complete	
Phase 2 – Decommissioning and Demolition			
Utility removal	2.1	Completed	
Infrastructure removal	2.2	Completed	
Surface entries sealed	2.3	Not applicable	
Agreed Infrastructure NPWS	2.4	Completed	
Agreed roads restored	2.5	No yet complete	
Infrastructure repaired	2.6	No yet complete	
Waste removed	2.7	No yet complete	
Contamination remediated	2.8	Completed	
PAF management	2.9	Not applicable	No PAF
Phase 3 – Landform Establishment			
Landform design	3.1	Not applicable	
Landform stability drainage	3.2.1	Not yet complete	Site free draining
Landform Stability mass movement	3.2.2	Completed	
Erosion > 300mm deep / wide	3.2.3	Completed	
Drainage to design	3.3	No yet complete	Tantangara Creek culvert to be installed
LEM calibrated to design	3.4	Not applicable	
Land form spoil completion criteria	3.5	Not applicable	
Landform commensurate with surrounds	3.6	Not yet complete	Sections on SMH require some blending to natural surrounds
Phase 4 – Growth Medium Development			
Growth media application	4.1		
Material characterisation	4.2	Not applicable	

Ameliorants applied where necessary	4.3	No yet complete	
Phase 5 – Ecosystem and Land Use Development			
Direct seeding to plan	5.1	No yet complete	Initial seeding not effective
Groundcover density to plan	5.2	No yet complete	Planting not complete some plants not available this season
Community composition (structure)	5.3	No yet complete	
Recreation areas landscaping	5.4	Not applicable	
Erosion land stability	5.5	Completed	
Weed density comparable	5.6	No yet complete	
Animal impact managed	5.7	No yet complete	
Phase 6 – Ecosystem and Land Use Sustainability			
Native Plant composition characteristic of PCT	6.1	No yet complete	Reference sites not established
Target PCT range met	6.2	No yet complete	Reference sites not established
Site specific plan species list	6.3	Partially complete	Interim list included in site specific plan
Vegetation structure characteristic of PCT	6.4	No yet complete	Reference sites not established
Growth medium suitable for PCT establishment	6.5	No yet complete	
Growth medium priority attributes within interquartile range	6.6	No yet complete	Reference sites not established
Maturing of vegetation community	6.7	No yet complete	Reference sites not established
Weed density comparable to interquartile range	6.8	No yet complete	Reference sites not established
Monitoring program fed into annual weed control program	6.9	Partially complete	Included in control program
Habitat features present	6.10	No yet complete	Reference sites not established
Site specific plans habitat measures	6.11	No yet complete	
Resilience to drought and fire	6.12	No yet complete	Reference sites not established
Vertebrate impacts controlled	6.13	No yet complete	No impacts to date
Domestic stock impacts controlled	6.14	No yet complete	No impacts to date
Bushfire controls demonstrated	6.15	No yet complete	
Water quality parameters met	6.16	No yet complete	

Table 13 - BH3203 & 3210 progress against completion criteria

Rehabilitation Objective Indicator	Completion Criteria Benchmark Reference	Progress against criteria	Comment
Phase 1 - Active			
Security measure implemented	1.1	Completed	
Impacts to flora / fauna mitigated	1.2	Completed	
Erosion controls	1.3	Completed	
Topsoil retained	1.4	Completed	
SEED available	1.5	Partially complete	Seed collected and available for ecosystem development
Interim rehab measures	1.6	Completed	
Phase 2 – Decommissioning and Demolition			
Utility removal	2.1	Completed	
Infrastructure removal	2.2	Completed	
Surface entries sealed	2.3	Not applicable	
Agreed Infrastructure NPWS	2.4	Completed	As per site specific plan
Agreed roads restored	2.5	Completed	No access
Infrastructure repaired	2.6	Completed	
Waste removed	2.7	Completed	
Contamination remediated	2.8	Completed	
PAF management	2.9	Not applicable	No PAF
Phase 3 – Landform Establishment			
Landform design	3.1	Not applicable	No design required
Landform stability drainage	3.2.1	Complete	Site free draining
Landform Stability mass movement	3.2.2	Not applicable	Site Stable
Erosion > 300mm deep / wide	3.2.3	Completed	
Drainage to design	3.3	Not applicable	
LEM calibrated to design	3.4	Not applicable	No landform required
Land form spoil completion criteria	3.5	Not applicable	No landform required
Landform commensurate with surrounds	3.6	Completed	Surface levels blend in to surrounds
Phase 4 – Growth Medium Development			
Growth media application	4.1	Completed	Site topsoil respread
Material characterisation	4.2	Not applicable	

Ameliorants applied where necessary	4.3	Not applicable	
Phase 5 – Ecosystem and Land Use Development			
Direct seeding to plan	5.1	Not applicable	Seeding not appropriate, tubestock only
Groundcover density to plan	5.2	Partially complete	
Community composition (structure)	5.3	No yet complete	
Recreation areas landscaping	5.4	Not applicable	Not included in rec plan
Erosion land stability	5.5	Completed	
Weed density comparable	5.6	No yet complete	
Animal impact managed	5.7	No yet complete	
Phase 6 – Ecosystem and Land Use Sustainability			
Native Plant composition characteristic of PCT	6.1	No yet complete	Reference sites not established
Target PCT range met	6.2	No yet complete	Reference sites not established
Site specific plan species list	6.3	Partially complete	Interim list included in site specific plan
Vegetation structure characteristic of PCT	6.4	No yet complete	Reference sites not established
Growth medium suitable for PCT establishment	6.5	No yet complete	
Growth medium priority attributes within interquartile range	6.6	No yet complete	Reference sites not established
Maturing of vegetation community	6.7	No yet complete	Reference sites not established
Weed density comparable to interquartile range	6.8	No yet complete	Reference sites not established
Monitoring program fed into annual weed control program	6.9	Partially complete	Included in control program
Habitat features present	6.10	No yet complete	Reference sites not established
Site specific plans habitat measures	6.11	No yet complete	
Resilience to drought and fire	6.12	No yet complete	Reference sites not established
Vertebrate impacts controlled	6.13	No yet complete	No impacts to date
Domestic stock impacts controlled	6.14	No yet complete	No impacts to date
Bushfire controls demonstrated	6.15	No yet complete	
Water quality parameters met	6.16	No yet complete	

Table 14 - BH4101 & 4202 progress against completion criteria

Rehabilitation Objective Indicator	Completion Criteria Benchmark Reference	Progress against criteria	Comment
Phase 1 - Active			
Security measure implemented	1.1	Completed	
Impacts to flora / fauna mitigated	1.2	Completed	
Erosion controls	1.3	Completed	
Topsoil retained	1.4	Completed	Topsoil respread
SEED available	1.5	Partially complete	Seed collected and available for ecosystem development
Interim rehab measures	1.6	Completed	Site stabilised
Phase 2 – Decommissioning and Demolition			
Utility removal	2.1	Completed	
Infrastructure removal	2.2	Completed	
Surface entries sealed	2.3	Not applicable	
Agreed Infrastructure NPWS	2.4	Completed	As per site specific plan
Agreed roads restored	2.5	Not applicable	No access
Infrastructure repaired	2.6	Completed	
Waste removed	2.7	Completed	
Contamination remediated	2.8	Completed	
PAF management	2.9	Not applicable	No PAF
Phase 3 – Landform Establishment			
Landform design	3.1	Not applicable	No design required
Landform stability drainage	3.2.1	Complete	Site free draining
Landform Stability mass movement	3.2.2	Not applicable	
Erosion > 300mm deep / wide	3.2.3	Completed	
Drainage to design	3.3	Not applicable	
LEM calibrated to design	3.4	Not applicable	No landform required
Land form spoil completion criteria	3.5	Not applicable	No landform required
Landform commensurate with surrounds	3.6	Completed	Surface levels blend in to surrounds
Phase 4 – Growth Medium Development			
Growth media application	4.1	Completed	
Material characterisation	4.2	Not applicable	Topsoil respread not imported material

			or subsoils
Ameliorants applied where necessary	4.3	Not applicable	Not required
Phase 5 – Ecosystem and Land Use Development			
Direct seeding to plan	5.1	Not applicable	Seeding not appropriate due to ground cover establishment, tubestock only
Groundcover density to plan	5.2	Partially complete	
Community composition (structure)	5.3	No yet complete	
Recreation areas landscaping	5.4	Not applicable	
Erosion land stability	5.5	Completed	
Weed density comparable	5.6	No yet complete	Reference sites not established
Animal impact managed	5.7	No yet complete	
Phase 6 – Ecosystem and Land Use Sustainability			
Native Plant composition characteristic of PCT	6.1	No yet complete	Reference sites not established
Target PCT range met	6.2	No yet complete	Reference sites not established
Site specific plan species list	6.3	Partially complete	Interim list included in site specific plan
Vegetation structure characteristic of PCT	6.4	No yet complete	Reference sites not established
Growth medium suitable for PCT establishment	6.5	No yet complete	
Growth medium priority attributes within interquartile range	6.6	No yet complete	Reference sites not established
Maturing of vegetation community	6.7	No yet complete	Reference sites not established
Weed density comparable to interquartile range	6.8	No yet complete	Reference sites not established
Monitoring program fed into annual weed control program	6.9	Partially complete	Included in control program
Habitat features present	6.10	No yet complete	Reference sites not established
Site specific plans habitat measures	6.11	No yet complete	
Resilience to drought and fire	6.12	No yet complete	Reference sites not established
Vertebrate impacts controlled	6.13	No yet complete	No impacts to date
Domestic stock impacts controlled	6.14	No yet complete	No impacts to date
Bushfire controls demonstrated	6.15	No yet complete	
Water quality parameters met	6.16	No yet complete	

Table 15 - Marica Access and Waterways progress against completion criteria

Rehabilitation Objective Indicator	Completion Criteria Benchmark Reference	Progress against criteria	Comment
Phase 1 - Active			
Security measure implemented	1.1	Completed	
Impacts to flora / fauna mitigated	1.2	Completed	
Erosion controls	1.3	Completed	
Topsoil retained	1.4	Completed	Topsoil respread
SEED available	1.5	Partially complete	Seed collected and available for initial ecosystem development
Interim rehab measures	1.6	Completed	Site stabilised
Phase 2 – Decommissioning and Demolition			
Utility removal	2.1	Completed	
Infrastructure removal	2.2	Completed	
Surface entries sealed	2.3	Not applicable	
Agreed Infrastructure NPWS	2.4	Completed	As per site specific plan
Agreed roads restored	2.5	Completed	Included in LTRS
Infrastructure repaired	2.6	Not applicable	
Waste removed	2.7	Completed	
Contamination remediated	2.8	Completed	
PAF management	2.9	Not applicable	
Phase 3 – Landform Establishment			
Landform design	3.1	Completed	Road batters to IFC
Landform stability drainage	3.2.1	Completed	
Landform Stability mass movement	3.2.2	Completed	
Erosion > 300mm deep / wide	3.2.3	Completed	Site stable
Drainage to design	3.3	Completed	Drainage as per design
LEM calibrated to design	3.4	Not applicable	
Land form spoil completion criteria	3.5	Not applicable	
Landform commensurate with surrounds	3.6	Completed	
Phase 4 – Growth Medium Development			
Growth media application	4.1	Completed	
Material characterisation	4.2	Not applicable	Site topsoil applied
Ameliorants applied where necessary	4.3	Not applicable	Not required
Phase 5 – Ecosystem and Land Use Development			

Direct seeding to plan	5.1	Partially complete	Additional seeding required
Groundcover density to plan	5.2	Partially complete	Further planting required
Community composition (structure)	5.3	No yet complete	
Recreation areas landscaping	5.4	Not applicable	No recreation at Marica
Erosion land stability	5.5	Completed	
Weed density comparable	5.6	No yet complete	
Animal impact managed	5.7	No yet complete	
Phase 6 – Ecosystem and Land Use Sustainability			
Native Plant composition characteristic of PCT	6.1	No yet complete	Reference sites not established
Target PCT range met	6.2	No yet complete	Reference sites not established
Site specific plan species list	6.3	Partially complete	Interim list included in site specific plan
Vegetation structure characteristic of PCT	6.4	No yet complete	Reference sites not established
Growth medium suitable for PCT establishment	6.5	No yet complete	
Growth medium priority attributes within interquartile range	6.6	No yet complete	Reference sites not established
Maturing of vegetation community	6.7	No yet complete	Reference sites not established
Weed density comparable to interquartile range	6.8	No yet complete	Reference sites not established
Monitoring program fed into annual weed control program	6.9	Partially complete	Included in control program
Habitat features present	6.10	No yet complete	Reference sites not established
Site specific plans habitat measures	6.11	No yet complete	
Resilience to drought and fire	6.12	No yet complete	Reference sites not established
Vertebrate impacts controlled	6.13	No yet complete	No impacts to date
Domestic stock impacts controlled	6.14	No yet complete	No impacts to date
Bushfire controls demonstrated	6.15	No yet complete	
Water quality parameters met	6.16	No yet complete	

Appendix C - UAV data - Tantangara Surface Depression

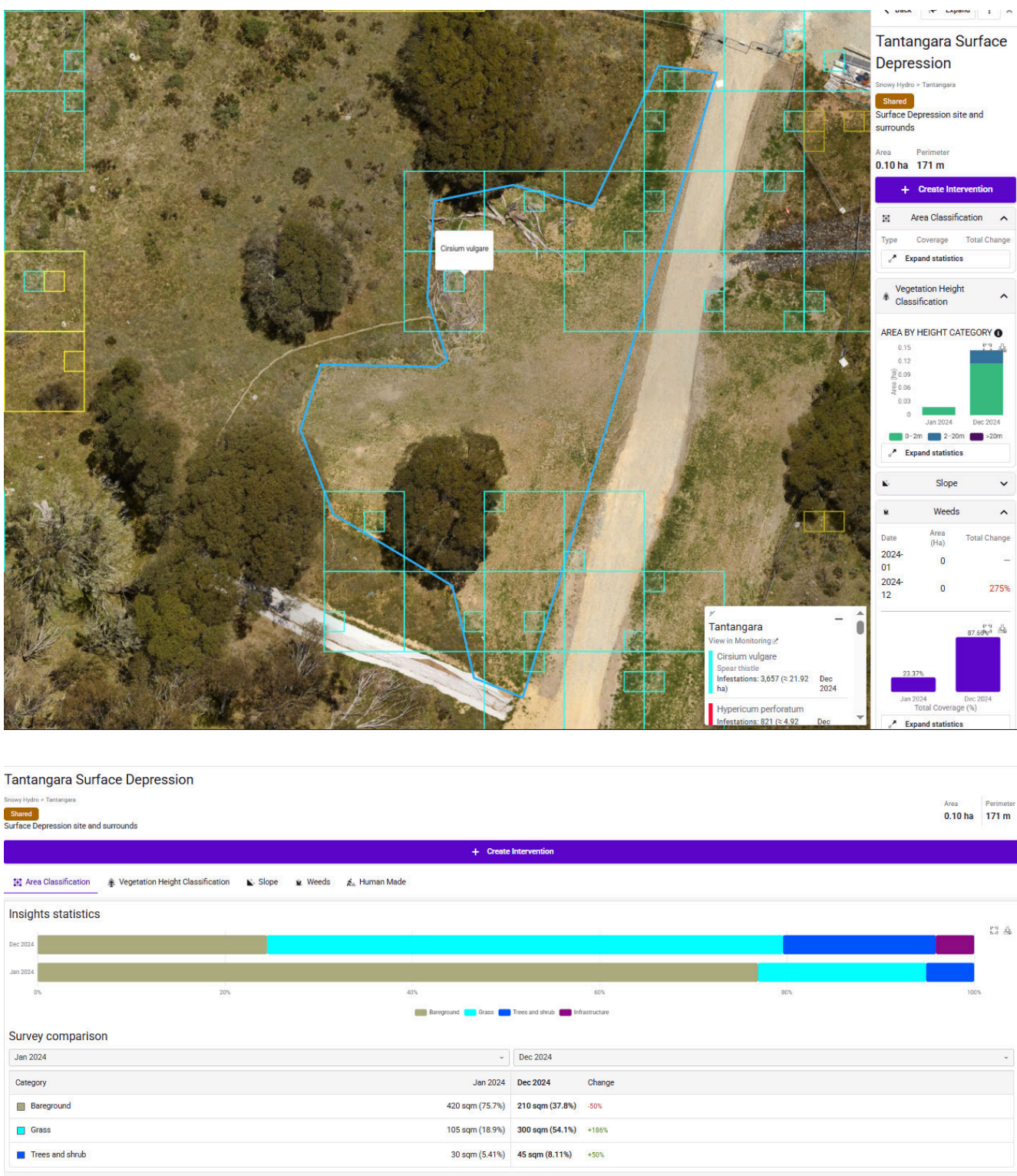


Figure 10 Tantangara Surface Depression UAV Data

Below figure 11 details the Jan 2024 survey boundary shown in yellow. Green is the December survey boundary. This accounts for the dramatic increase in almost all indicators.

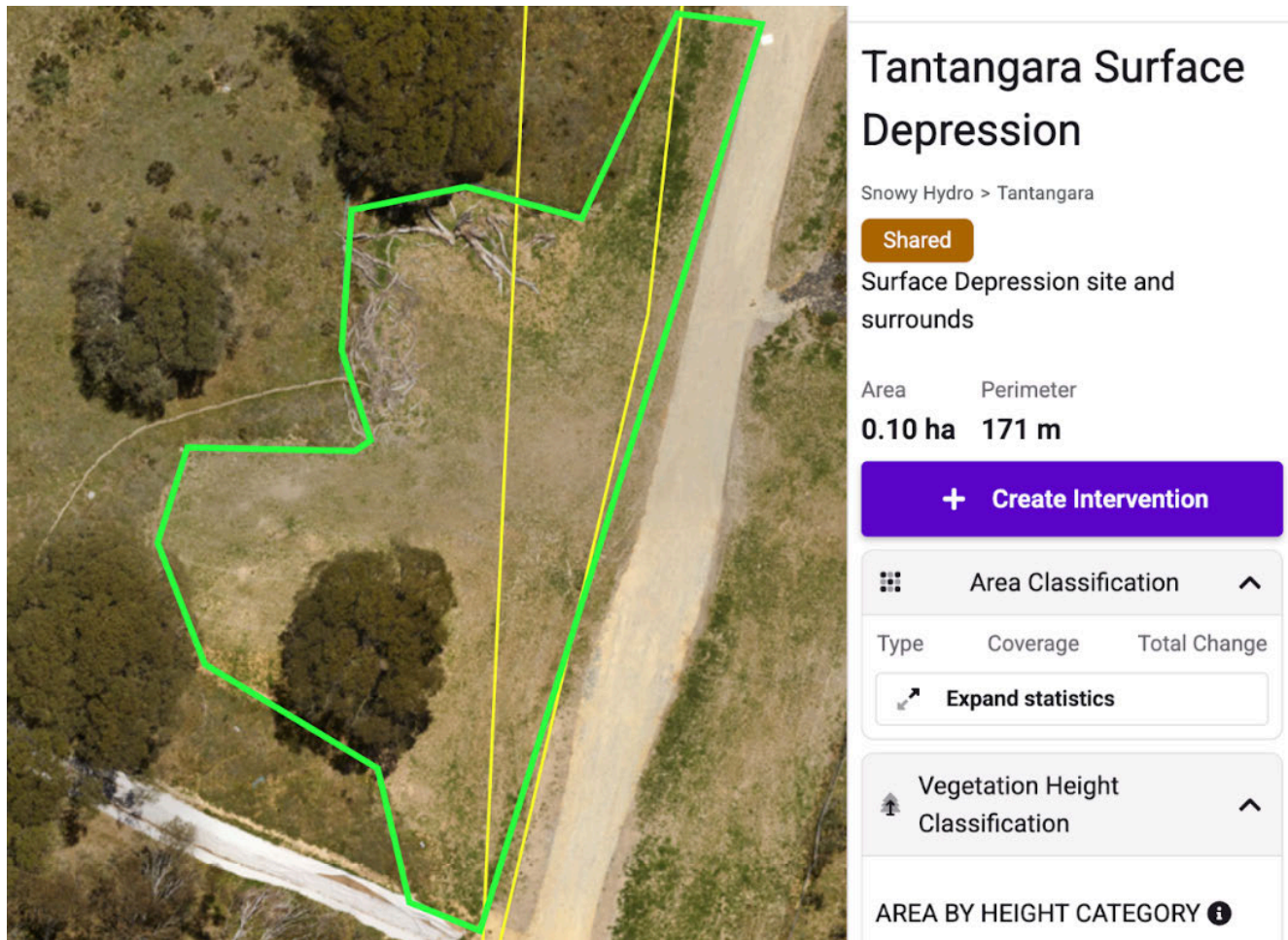


Figure 11 Tantangara surface depression survey boundary overlay

Appendix D

Plateau UAV Monitoring data



Figure 12 - Trunk Services - Marica to Eucumbene River UAV data



Figure 13 - Trunk Services Eucumbene to RMS laydown UAV data

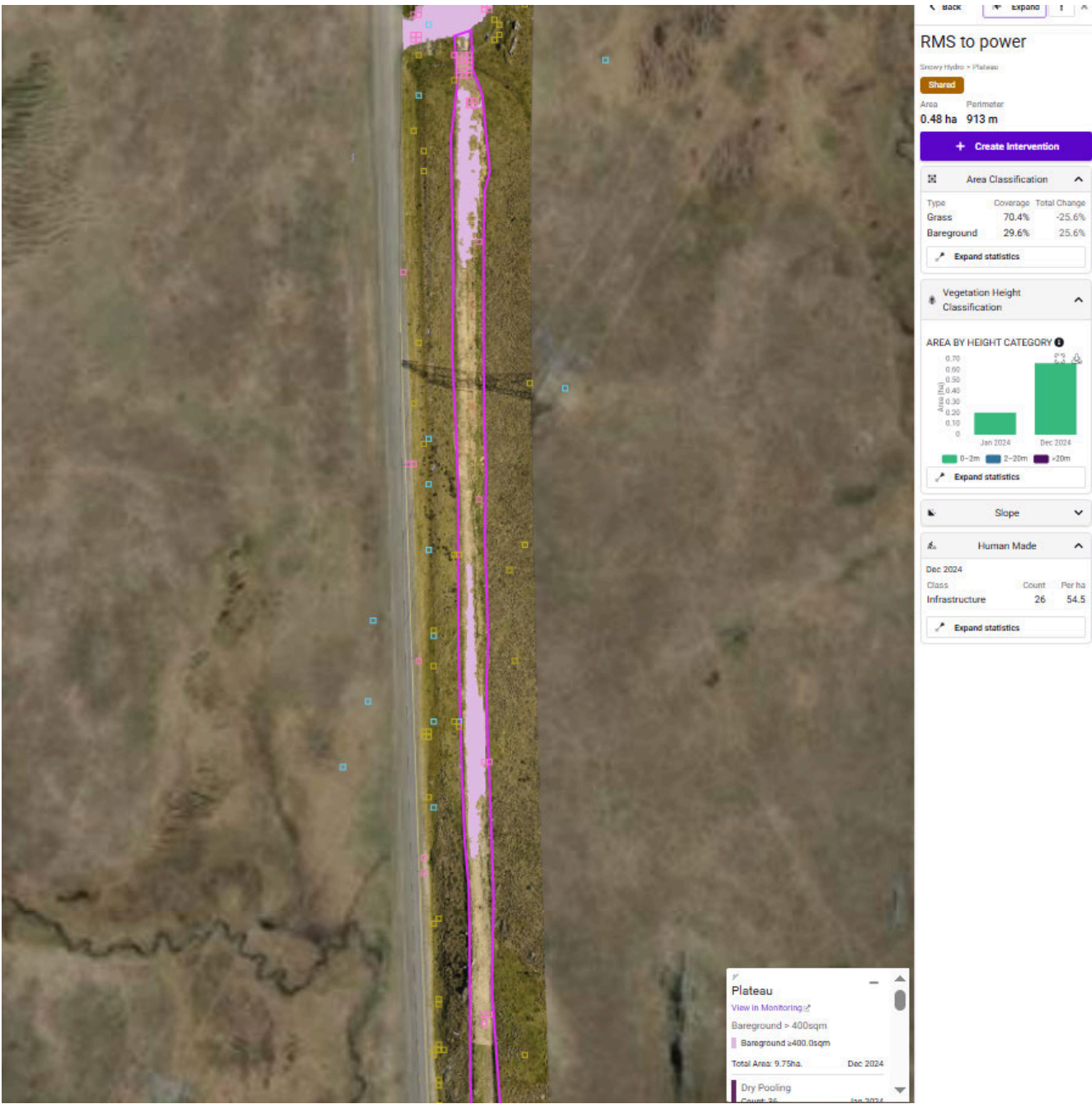


Figure 14 - Trunk Services RMS to Powerline creek - UAV data

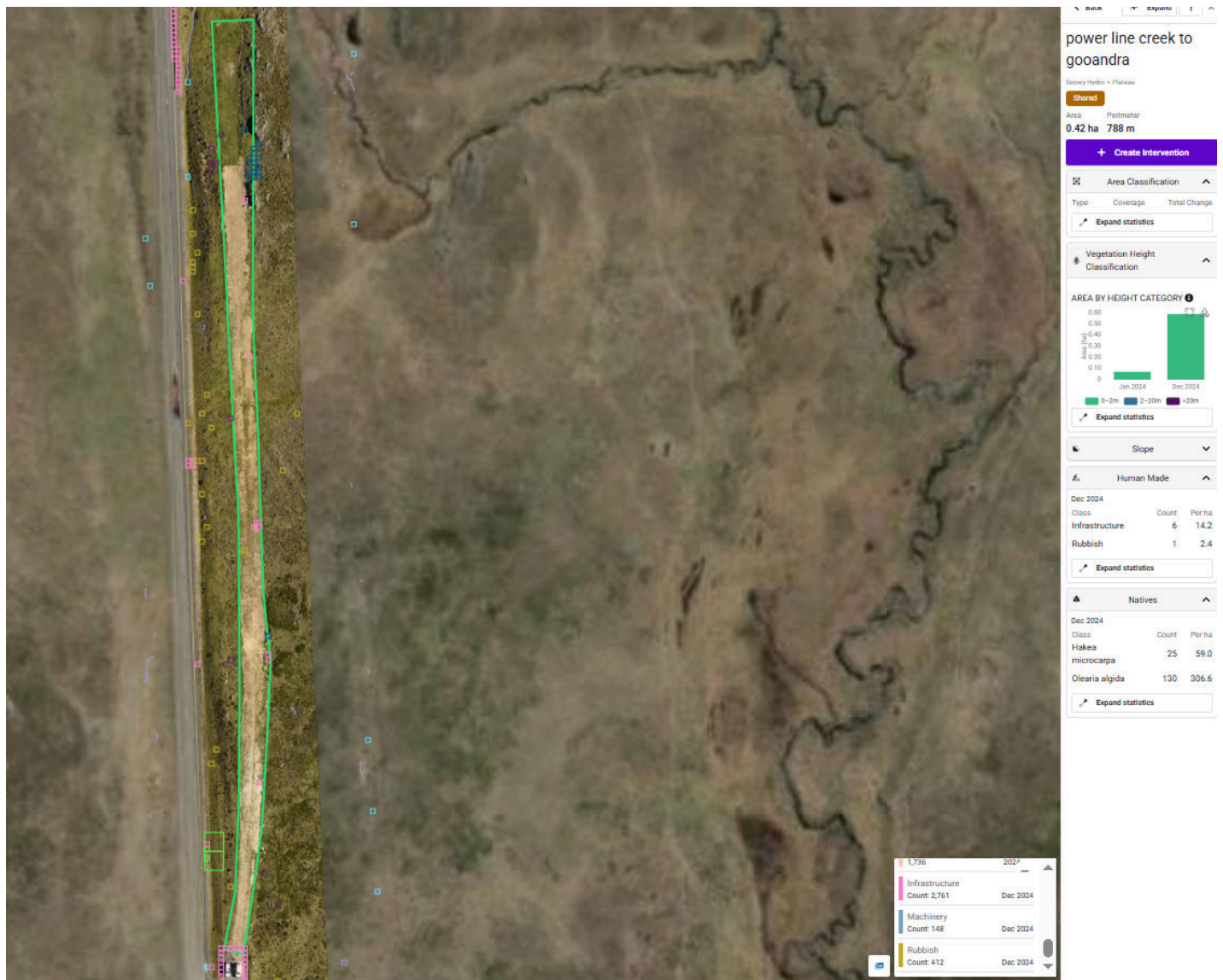


Figure 15 - Trunk Services Powerline Creek to Gooandra Trail site entrance - UAV data



Figure 16: L1 - UAV data



Figure 17: L2 UAV data

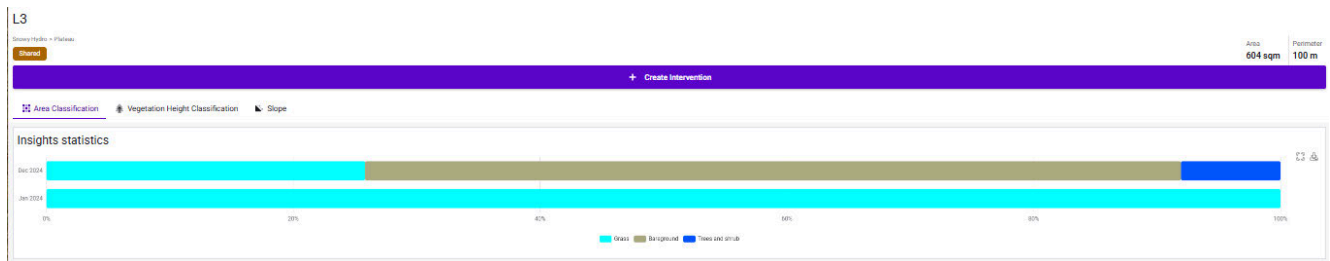
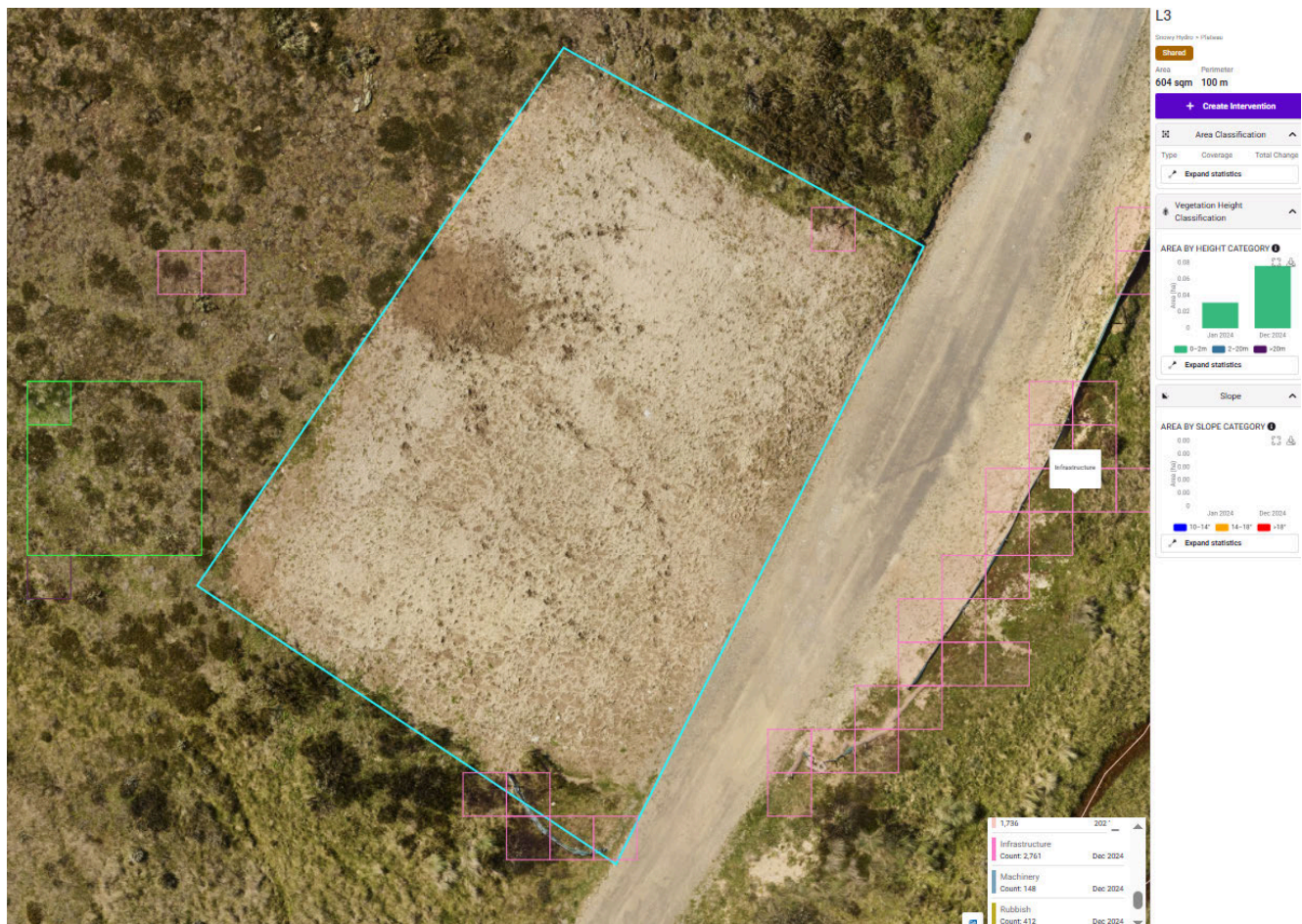


Figure 18: - L3 UAV data



Figure 19: L4 UAV data



Figure 20: - L5 UAV data

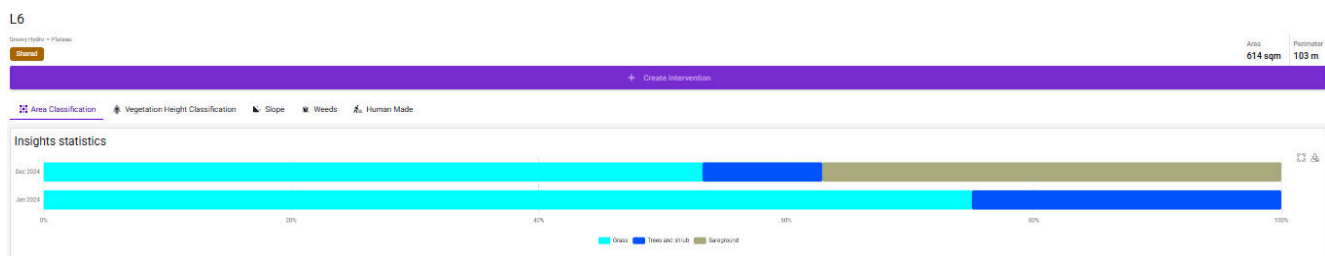
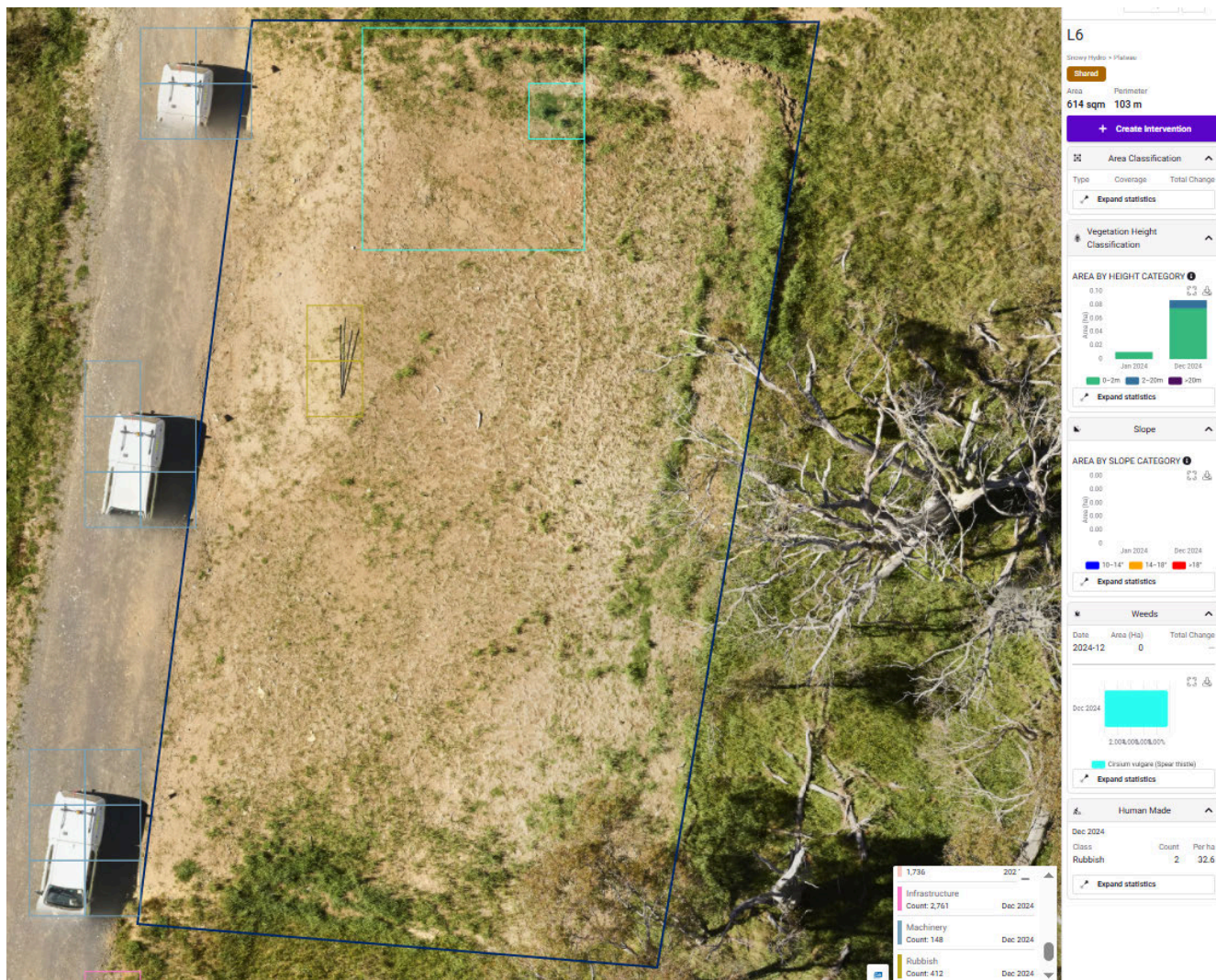


Figure 21: L6 UAV data

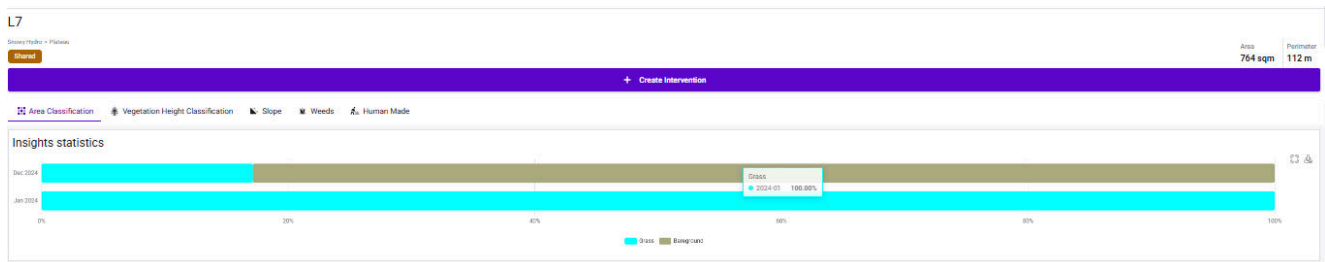


Figure 22: L7 UAV data

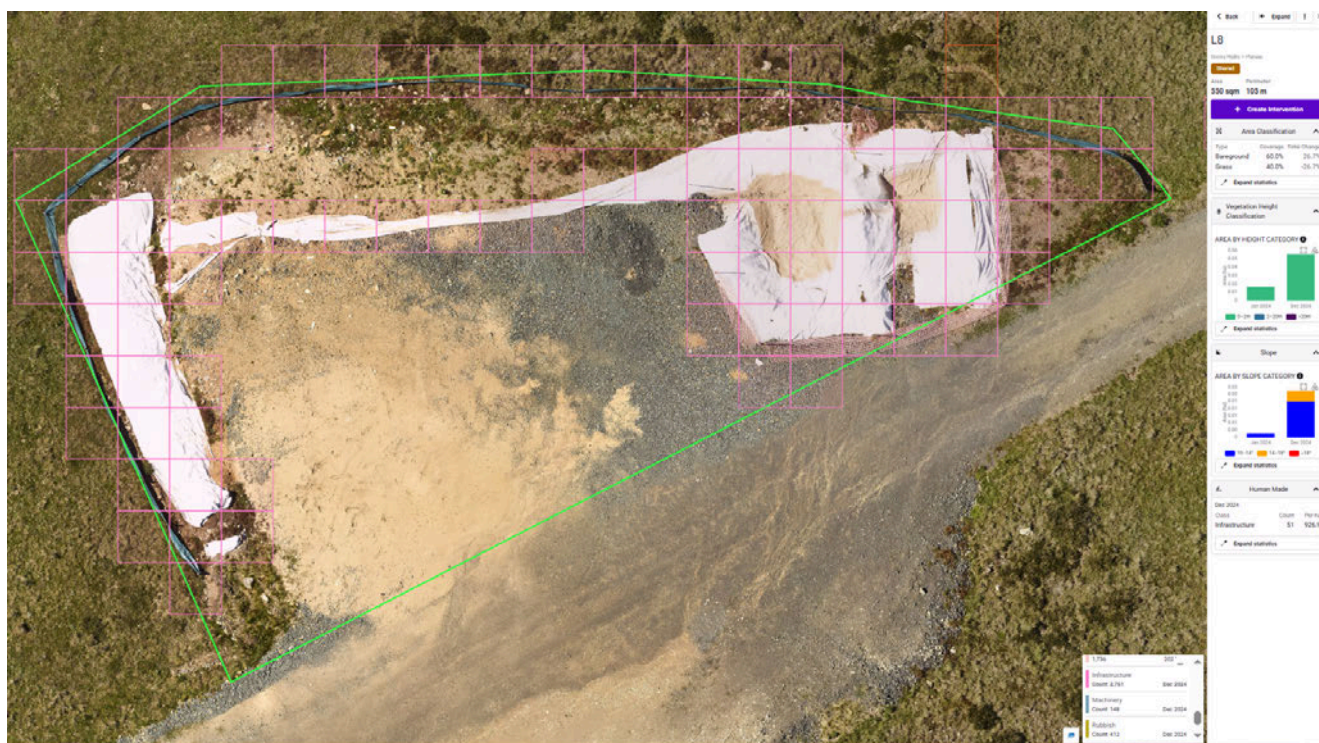


Figure 23: - L8 UAV data



Figure 24: L9 UAV data

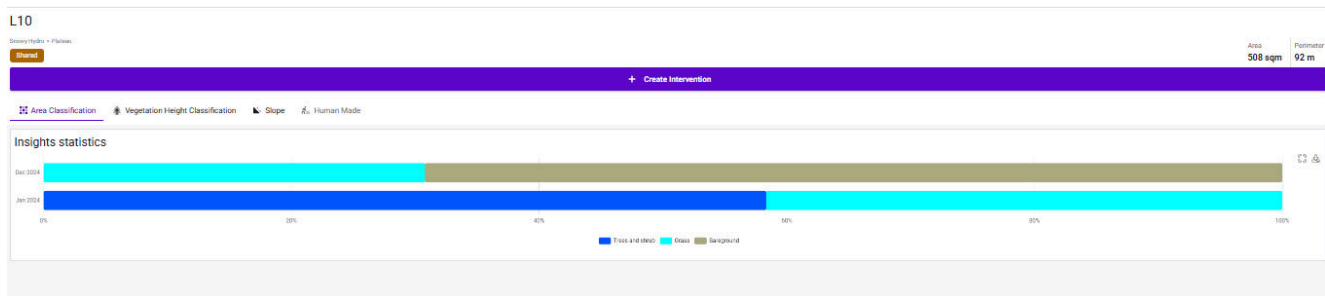


Figure 25 L10 UAV data



Figure 26: L11 UAV data

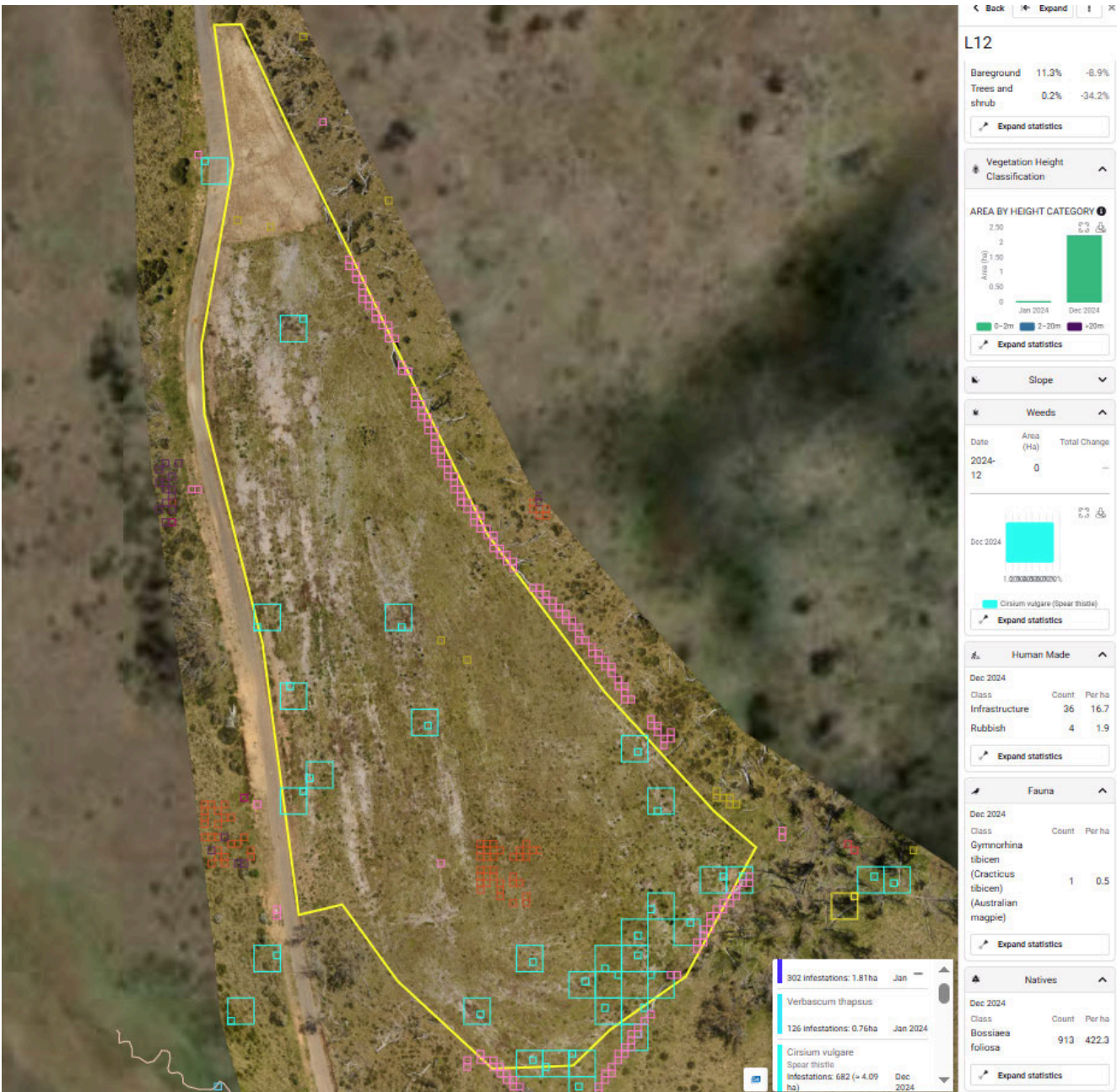


Figure 27: L12 UAV data

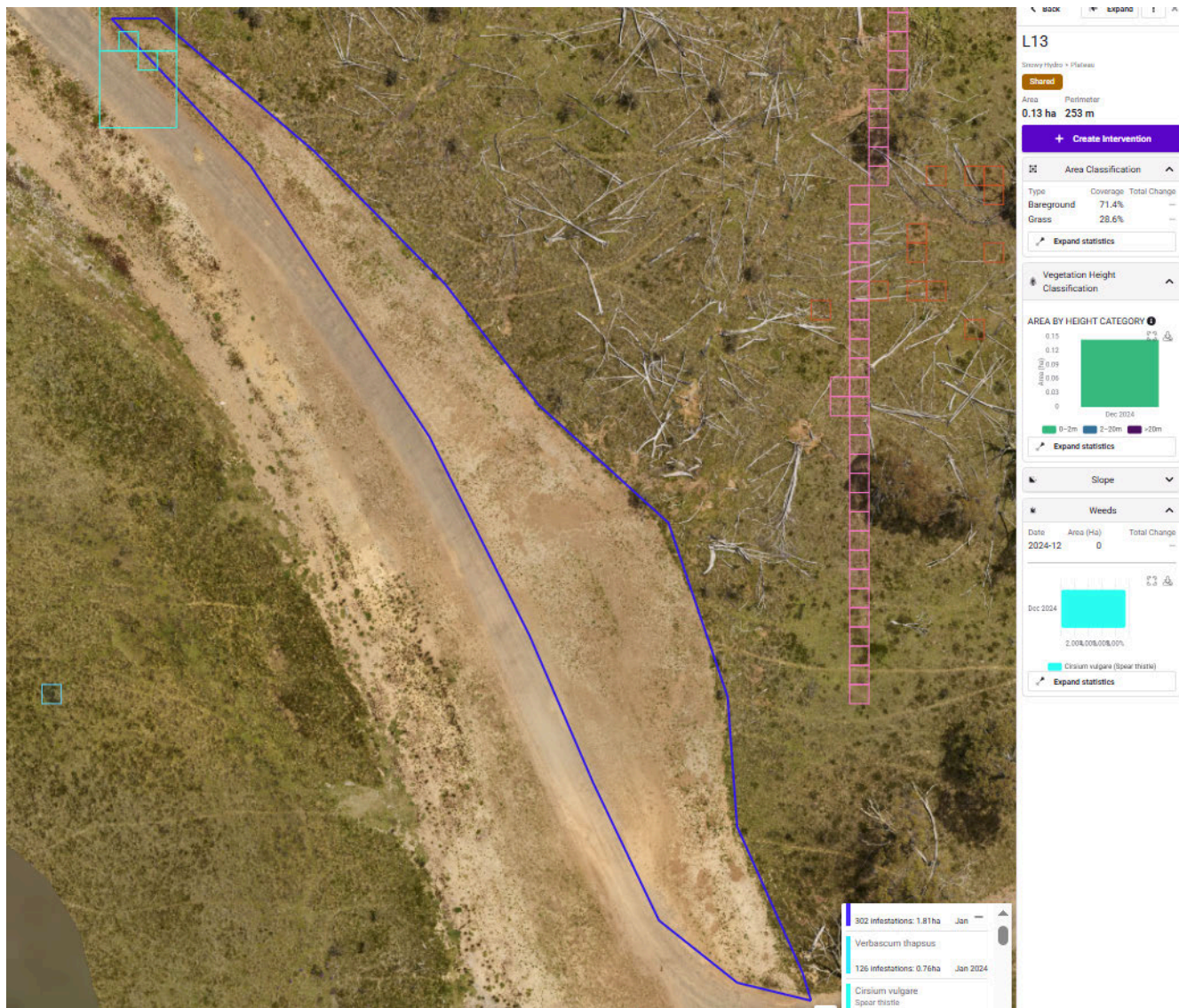


Figure 28: L13 UAV data



Figure 29: L14 UAV data

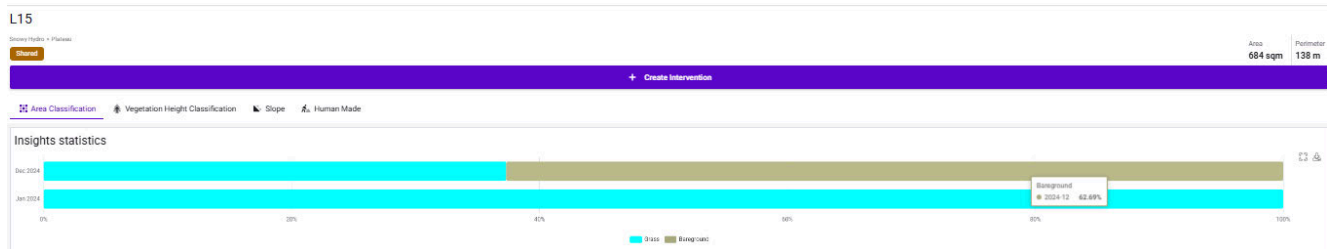


Figure 30: - L15 UAV data

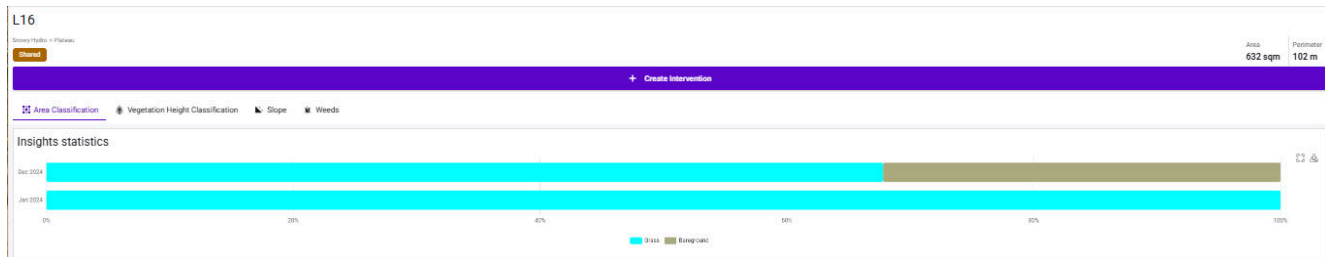
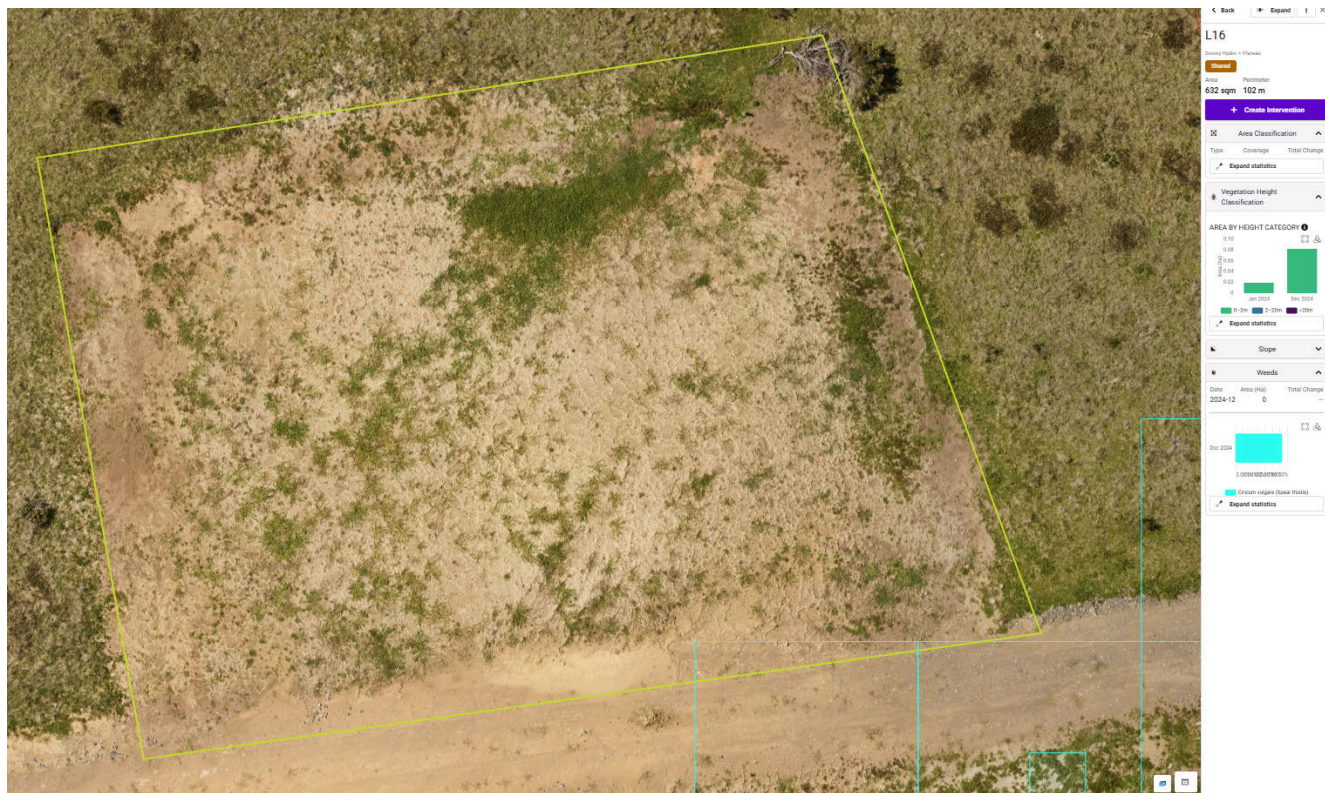


Figure 31:- L16 UAV data



Figure 32: L17 UAV data



Figure 33:- L18 UAV data

Appendix E - BH3203 & 3210

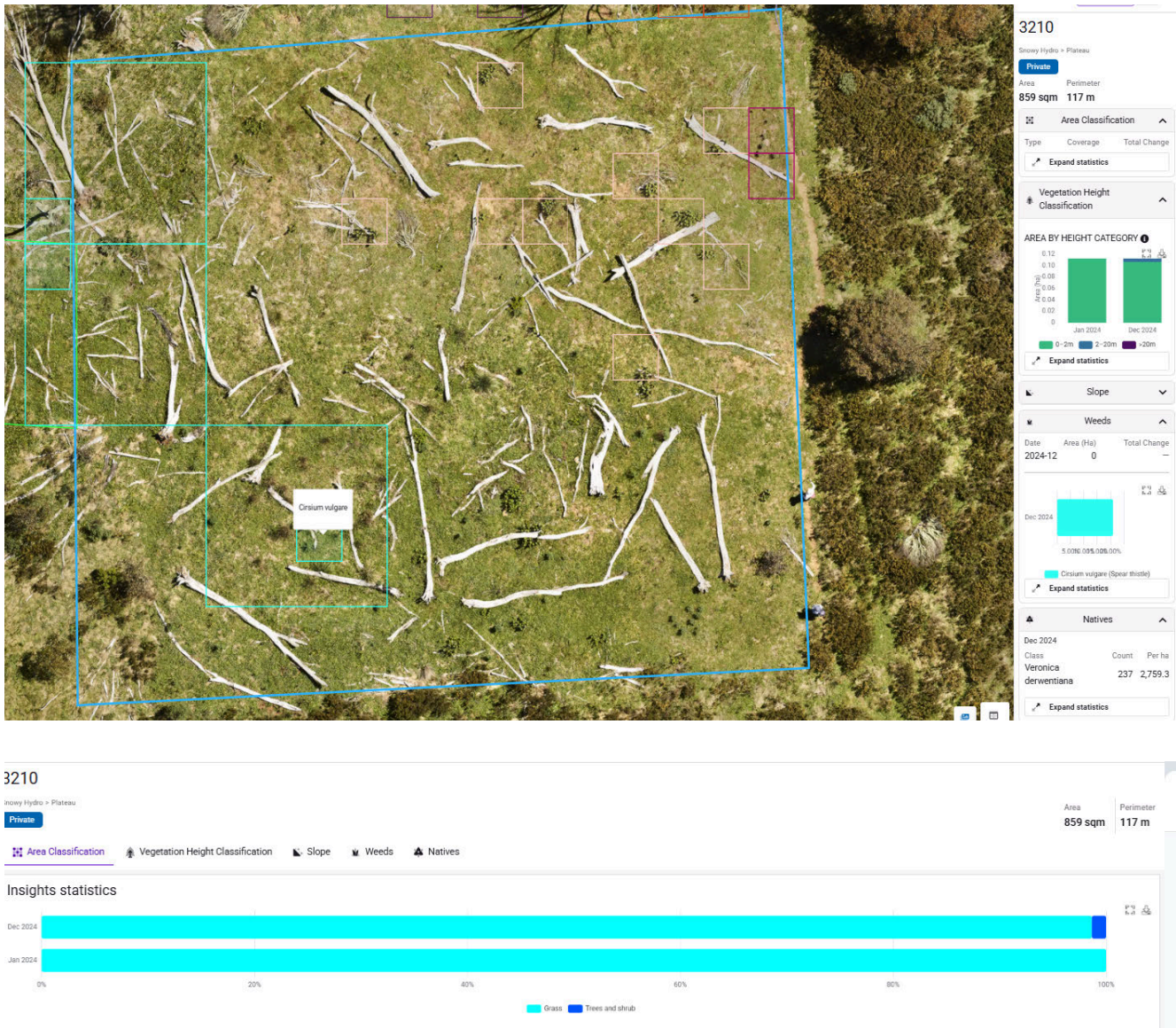


Figure 34: - Bore Hole 3210 UAV data

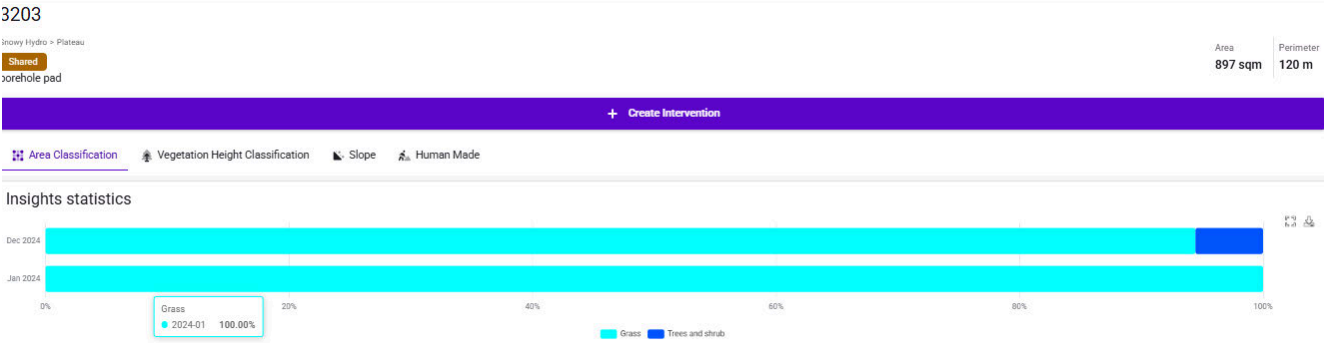
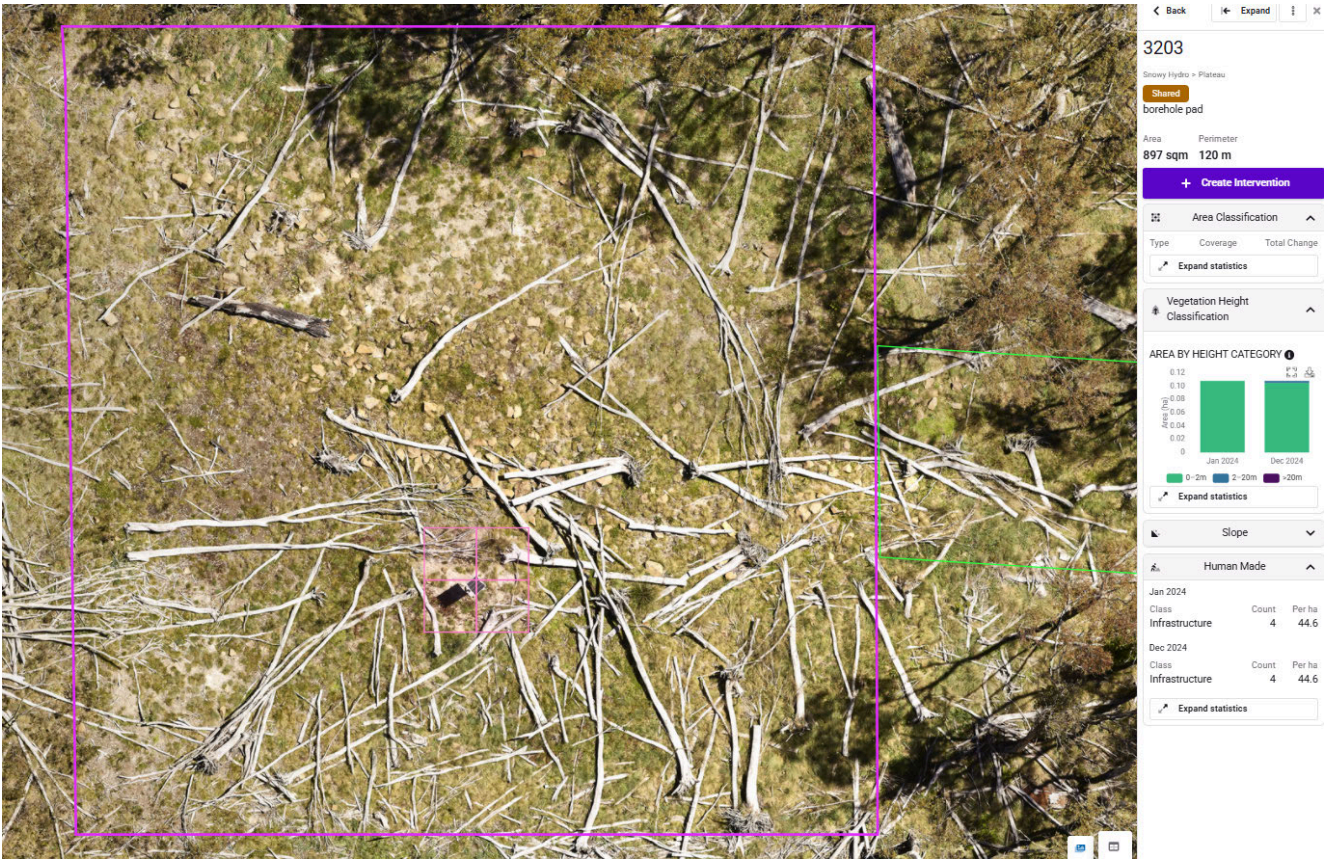


Figure 35: - Bore Hole 3203 UAV data



Figure38: BH 3210 access - Bogs and Fens image showing no incisions

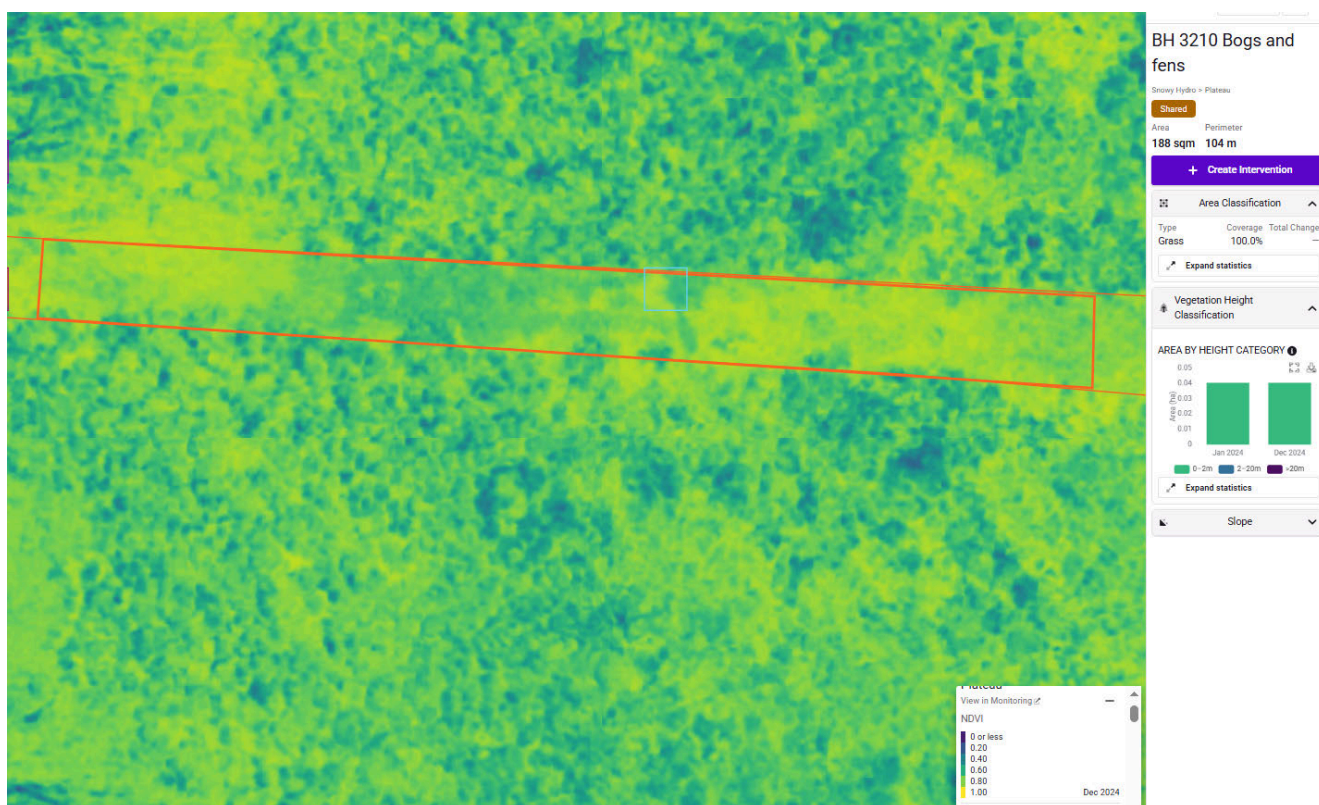


Figure 39: BH 3210 access - Bogs and Fens NDVI monitoring

Appendix F - BH4201 & 4202



Figure 40: Wallace / Coppemine trail to Eucumbene River UAV data

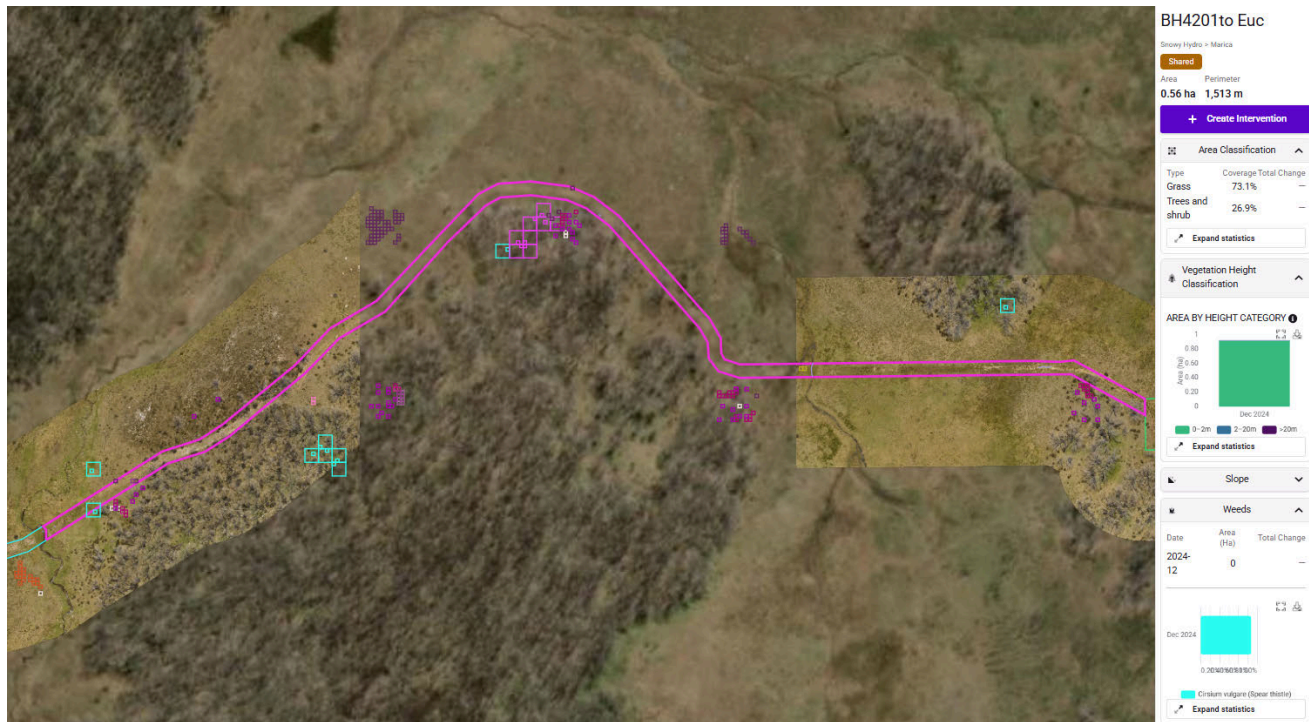
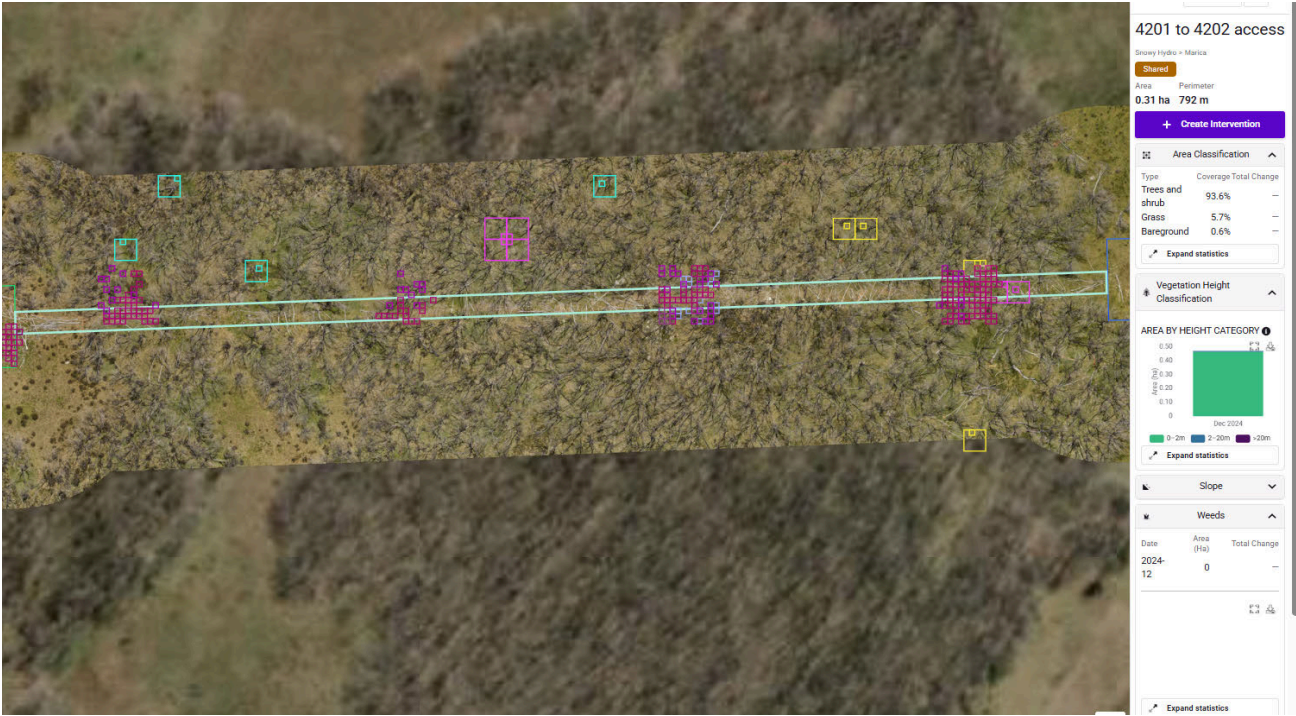


Figure 41: - Eucumbene to BH4201 UAV data



Figure 42: - BH 4201 UAV data



4201 to 4202 access

Stoney Hydro > Marica		Area	Perimeter
Shared		0.31 ha	792 m
+ Create Intervention			
Area Classification Vegetation Height Classification Slope Weeds Natives			
Insights statistics			
Dec 2024			
Class		Count	Per ha
Daviesia ulicifolia		26	84.1
Veronica derwentiana		33	106.7

Figure 43: BH4201 to 4202 UAV data

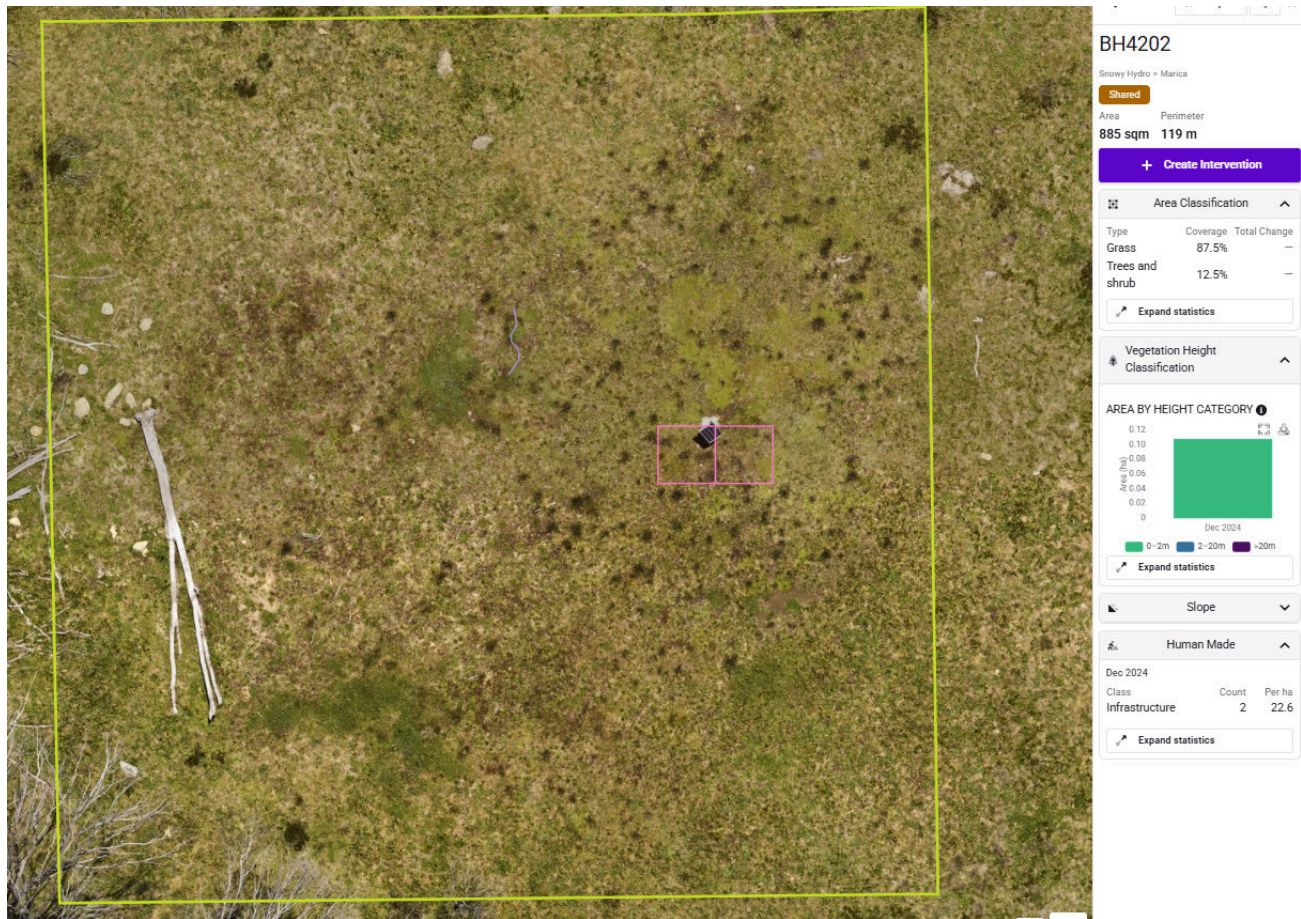


Figure 44: BH4202 UAV data

Appendix G- Marica - Eucumbene River



Figure 45 - Eucumbene River UAV data

Appendix H Marica - Dip Creek



Figure 47: - Dip Creek UAV data