

A decorative background element consisting of a topographic map with contour lines, rendered in a light grey color. The map is positioned on the left side of the page, extending from the top left towards the bottom left, and partially overlapping the main title area.

# Telecommunications Facility – Eagles Nest, Thredbo Ski Resort Site Environmental Management Plan

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## **Service Stream**

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## DOCUMENT TRACKING

|                        |  |
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Template 2.8.1

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## Abbreviations

| Abbreviation | Description  |
|--------------|--|
| DA           | Development Application                                      |
| DCCEEW       | Department Climate Change, Energy, the Environment and Water |
| DoE          | Department of the Environment                                |
| DoH          | Department of Housing  |
| DPE          | Department of Planning and the Environment                   |
| EPA          | NSW Environment Protection Authority                         |
| EP&A Act     | <i>Environmental Planning and Approvals Act 1979</i>         |
| LEP          | Local Environmental Plan                                     |
| LGA          | Local Government Area  |
| MHA          | Mast Head Amplifier  |
| NPW Act      | <i>National Parks and Wildlife Act 1974</i>                  |
| NPWS         | National Parks and Wildlife Service                          |
| NSW          | New South Wales  |
| PEOE Act     | <i>Protection of the Environment Operations Act 1997</i>     |
| SEMP         | Site Environmental Management Plan                           |

# 1. Introduction

## 1.1. Project Description

This Site Environmental Management Plan (SEMP) details the control measures required to minimise environmental impacts during the on-ground works associated with the Optus telecommunications construction works at the Eagles Nest, Thredbo Ski Resort. The proposed works at the Eagles Nest Telecommunication facility aim to upgrade the Optus telecommunication infrastructure by utilising the existing monopole and replacing existing antenna panels with new antenna panels, including 5G antenna. This upgrade will provide improved telecommunication accessibility around the ski resort and surrounding area.

The primary objects of the Project are as follows:

- Removal of panels on the existing telecommunications structure
- Installation of new telecommunication antenna panels and associated infrastructure
- Ensure that best management practice is used in undertaking the proposed works regarding the environment

The project involves the removal of the existing Argus panels on the current 7.4 m high monopole and installing new carrier telecommunication equipment including Commscope and ERICSSON panels on longer antenna mounts. The new panels will be within the existing footprint of the structure, which is approximately 1.5 m by 1.5 m, including the monopole. The existing flexible insulated steel conduit will be used to run the cable feeders to the monopole. The total development site footprint will be 3 m<sup>2</sup> for the telecommunication monopole. All telecommunications equipment is to be flown into the location using a helicopter. No construction materials are to be stored on the ground apart from vehicles located in the construction compound.

### 1.1.1. Location

The site is located approximately 3.5 km to the northwest of the township of Thredbo, NSW (Lot 876 DP 1243112) within the Snowy Monaro Regional Council Local Government Area (LGA). The site wholly zoned C1 – National Parks and Nature Reserves, in accordance with the Snowy River Local Environmental Plan (LEP) 2013. Primary access to the site is via Friday Drive and Alpine Way through Thredbo.

The development is located on the top of a large rock outcrop at the Eagles Nest, at Thredbo Ski Resort, within the Kosciuszko National Park.

### 1.1.2. Construction Activities

A construction compound site will be established within the sealed area between Eagles Nest Restaurant and Kosciuszko Chairlift Terminal. The construction period will require the temporary use for construction workers to park the vehicles. All telecommunications equipment, required for construction are to be flown onto site using a helicopter. No construction materials are to be stored on the ground. Works on the existing monopole will commence utilising the existing climbable pole and will not require the use of plant such as an elevated work platform (**Error! Reference source not found.**).

The proposed scope of works includes the following works on the existing monopole:

- Removal of 3 x existing Argus panels
- Installation 3 x Commscope panels
- Installation 3 x ERICSSON panels
- Installation 1 x new combiner
- Installation 3 x new filters
- Reposition and reinstall 3 x existing filters, 1 x existing combiner and 2 x existing Mast Head Amplifiers (MHAs)

## 1.2. SEMP Objectives

The key objectives of this SEMP are to facilitate:

- Identification of the environmental risks on this Project
- Protection of the environment through the management of environmental risks
- Implementation of control measures by project staff and contractors
- Informing all project staff and contractors of environmental obligations

### 1.2.1. Timing

The proposed works are anticipated to commence on 1<sup>st</sup> of April 2023 and take 8-12 weeks to complete.

## 1.3. Statutory Requirements

### 1.3.1. SEMP Context

#### 1.3.1.1. *Environmental Planning and Assessment Act 1979* (EP&A Act)

The Project requires consent and was assessed under Part 4 of the *Environmental Planning and Assessment Act 1979* (EP&A Act). The EP&A Act places a duty on the determining authority to adequately address a range of environmental matters including the biodiversity, heritage, water management and social impact. Environmental controls specific to the project have been identified within the technical reports undertaken for the development, and this SEMP will ensure Service Stream compliance to their obligations under the EPA Act by providing for the implementation of these controls

Of particular relevance is Aboriginal Heritage Due Diligence Assessment (ADD) and Biodiversity Development Assessment Report (BDAR) undertaken for the development by ELA in 2019. The controls identified within the ADD and BDAR (ELA, 2019) and are presented within Appendix A.

This SEMP will ensure Service Stream is able to comply with their obligations under the EP&A Act by providing for the implementation of the appropriate controls.

#### 1.3.1.2. *Snowy River Local Environmental Plan 2013*

The proposed works are located on land wholly zoned C1 – National Parks and Nature Reserves under the Snowy River LEP. The objectives of the zone are:

- *To enable the management and appropriate use of land that is reserved under the National Parks and Wildlife Act 1974 or that is acquired under Part 11 of the Act.*
- *To enable uses authorised under the National Parks and Wildlife Act 1974.*

- *To identify land that is to be reserved under the National Parks and Wildlife Act 1974 and to protect the environmental significance of that land.*

Works on land zoned C1 are permitted without consent provided the works are authorised under the *National Parks and Wildlife Act 1974* (NPW Act). This SEMP will ensure that Service Stream is able to comply with their obligations under the Snowy River LEP.

## 2. Implementation and Operation

### 2.1. Environmental Management Program

The management of environmental aspects relevant to the construction works are detailed in 5.

### 2.2. Structure and Responsibility

The following table outlines who is responsible for the implementation of environmental safeguards and at what stage of works.

**Table 1: Staff Roles and Responsibilities**

| Role            | Responsibility  |
|-----------------|---|
| Project Manager | <ul style="list-style-type: none"> <li>Reviews Development Application (DA) Conditions of Consent and SEMP</li> <li>Notifies consent authority of changes to the project scope of works and updates the SEMP, if required</li> <li>Requires the contractor to adhere to the approved works</li> <li>Accountable for contractor's and subcontractor's environmental performance</li> <li>Reports any non-compliance to consent authority</li> </ul>  |
| Site Supervisor | <ul style="list-style-type: none"> <li>Issues stop work orders, if required</li> <li>Records any community complaints and notifies the project manager</li> <li>Responsible for site management, SEMP compliance, including any subcontractors</li> <li>Facilitates environmental induction and toolbox talks for site personnel</li> <li>Undertakes environmental inspections (daily, or if environmental conditions change)</li> <li>Ensures that all relevant authorities and the surrounding community are notified of works commencement</li> <li>Initiates corrective actions</li> <li>Reports SEMP non-conformances to the Project Manager</li> <li>Reports incidents as per Section 3</li> <li>Notifies the Project Manager if the SEMP needs revising</li> </ul>   |
| Staff           | <ul style="list-style-type: none"> <li>Comply with SEMP</li> <li>Monitor and maintain controls</li> <li>Report breaches of the SEMP and potential / actual incidents to site supervisor</li> <li>Report incidents as per Section 3</li> <li>Stop works and report to Site supervisor in the event of unexpected finds (potential contamination or heritage items)</li> <li>Record community complaints and notify site supervisor</li> </ul>  |
| Contractor      | <ul style="list-style-type: none"> <li>Implement and comply with the SEMP</li> <li>All incidents and complaints are reported and appropriately managed (in collaboration with the Site Supervisor)</li> <li>Assist authorised personnel or agents in conducting inspections/reviews/audits to assess the effectiveness of the Contractor's environmental performance</li> <li>Site staff are environmentally aware and competent in environmental management of the project</li> <li>All personnel working on the project site have undergone an induction which is inclusive of environmental issues</li> <li>Prompt rectification of any deficiencies in the implementation of the identified environmental control measures</li> <li>Identification of any risks and emerging issues in an appropriate manner, including handover</li> </ul> |



## 3. Emergency Preparedness and Incident Management

### 3.1. Incidental Pollution to the Environment

In the event of an environmental incident causing or threatening 'material harm' to the environment (indicatively, costing more than \$10,000 in clean-up (refer s.148 of the *Protection of the Environment Operations Act 1997*), the following authorities must be notified immediately (in this order):

- Firstly, call 000, only if the incident presents an immediate threat to human health or property
- National Parks and Wildlife Service – 1300 072 757
  - Kosciuszko National Park – (02) 6450 5600
- The NSW Environment Protection Authority (EPA) – 131 555
- SafeWork NSW – 131 050
- Fire and Rescue NSW – (02) 9265 2999

Immediate verbal communication should be given to each relevant authority. This is to be followed by notification in writing where required.

### 3.2. Training and Environmental Awareness

Prior to starting work, all site personnel must undergo, and document, the following training:

- A site induction including the requirements of this SEMP and any associated plans
- Emergency response training
- Familiarisation with site environmental features requiring protection and controls
- 'Toolbox Talks' which will be used during construction for training and environmental awareness

All visitors to site must be accompanied by a person working at the site who has been fully inducted as above. In addition, visitors must undergo:

- General site induction
- Familiarisation with site features, hazard awareness and site evacuation plans

## 4. Monitoring and Review

### 4.1. SEMP Audit

The implementation of the SEMP may be audited throughout the construction stage.

### 4.2. Environmental Site Checklist

The site environmental inspection checklist is contained in Appendix C The site supervisor will record the outcomes on a weekly basis, after rain and if environmental conditions change.

### 4.3. Corrective Action

Environmental non-conformances shall be treated as incidents and recorded and rectified by the Site Supervisors.

### 4.4. SEMP Review

The SEMP will be reviewed, if required, by factors such as the results of audit reports, complaints, incidents or changes in site conditions or scope of works.

## 5. References

Department of Housing, 2004. *Managing Urban Stormwater: Soils and Construction – Volume 1*. Retrieved from <https://www.environment.nsw.gov.au/research-and-publications/publications-search/managing-urban-stormwater-soils-and-construction-volume-1-4th-edition>

Eco Logical Australia, 2019. *Telecommunications Facility - Eagles Nest, Thredbo Ski Resort*. Prepared for HVAC Australia Pty Ltd

Snowy Monaro Regional Council, 2013. *Snowy River Local Environmental Plan 2013*. Retrieved from <https://legislation.nsw.gov.au/view/html/inforce/current/epi-2013-0700>

## Appendix A Environmental Management Plan

**Table 2: Environmental Management Controls**

| Environmental Action  | Timeframe      | Monitoring   | Responsible Person |
|---|----------------|--|--------------------|
| <b>Objective: General</b>   |                |  |                    |
| All project staff and contractors will be inducted on the environmental sensitivities of the work site(s) and relevant safeguards prior to commencement.  | Prior to works | Induction records  | PM                 |
| Work site will be delineated and 'no go' zones will be marked prior to commencement of works.   | Prior to works | Weekly checklist, after rainfall or changed in site conditions | PM, SS             |
| The NPWS will be notified immediately of any complaints in relation to management of environmental issues.  | As required    | Complaint Register   | SS                 |
| Each relevant authority must be notified of any incidents.  | As required    | Incident Reports   | All                |
| <b>Objective: Reduce Potential to Cause Soil Erosion and Sedimentation</b>  |                |  |                    |
| Erosion and sedimentation controls shall be in place prior to the commencement of site works and maintained throughout construction activities, until the site is landscaped and/ or suitably revegetated. These requirements shall be in accordance with Managing Urban Stormwater – Soils and Construction (Blue Book) produced by the NSW Department of Housing. | Prior to works | Weekly checklist, after rainfall or changed in site conditions | PM, SS             |
| Inspect erosion controls regularly (daily during workdays) and after rainfall. Fix damaged controls immediately. Remove accumulated sediment or waste material from within the sediment controls regularly.   | As required    | Weekly checklist, after rainfall or changed in site conditions | SS                 |
| Leave erosion and sediment controls in place until after the works are completed.   | Prior to works | Weekly checklist, after rainfall or changed in site conditions | SS, All            |
| Schedule the work outside of predicted heavy rain periods.  | As required    | Weekly checklist, after rainfall or                            | PM                 |

| Environmental Action  | Timeframe                           | Monitoring   | Responsible Person |
|---|-------------------------------------|--|--------------------|
|   |                                     | changed in site conditions                                     |                    |
| Stop work during heavy rainfall to reduce risk of mobilising sediment.  | As required                         | Weekly checklist, after rainfall or changed in site conditions | SS                 |
| <b>Objective: Reduce Harm to Biodiversity</b>   |                                     |  |                    |
| To reduce the spread of pathogens and diseases, ensure Saving of Species Hygiene Guidelines (Department of Planning and Environment, 2020) are adhered to:  | During construction                 | Weekly checklist   | SS, All            |
| <ul style="list-style-type: none"> <li>Ensure all clothing, hats, footwear, tools, equipment, machinery, and vehicles are free of mud, soil, and organic matter before entering and exiting works areas.</li> <li>Ensure any soil, plants or other materials entering the site are certified free of weeds and pathogens.</li> <li>Thredbo have a washdown location, permission to use this must be granted prior to construction works.</li> </ul> |                                     |  |                    |
| Identify with flagging tape or other measures the limit of the proposed disturbance prior to construction to prevent inadvertent damage to vegetation and habitats beyond the disturbance footprint.  | Prior to construction               | As required  | All                |
| Brief all workers as to the limit of the disturbance footprint and other environmental safeguards   | Prior to works, during construction | As required  | All                |
| <b>Objective: Reduce Spread of Priority Weeds</b>   |                                     |  |                    |
| Wash down equipment and vehicles prior to and after use, to manage the introduction and spread of weed propagules. Thredbo have a designated washdown bay onsite. Thredbo should be contacted and this washdown bay should be utilised prior to accessing the site.   | Prior to works, during construction | Weekly checklist   | All                |
| <b>Objective: Reduce Potential Impacts to Aboriginal Heritage</b>   |                                     |  |                    |
| All contractors undertaking works on site should be briefed on the protection of Aboriginal heritage objects under the NPW Act, and the penalties for damage to these items.  | Prior to works                      | As required  | PM                 |
| Should an unexpected Aboriginal object be identified during construction, work in the immediate vicinity of the find is to stop and the area must be fenced off with suitable markers (star pickets, flagging or barrier mesh). The Project Manager is to be notified. Engage an archaeologist to determine the significance of the find, and if required, determine the notification, consultation, and  | As required                         | Incident reports   | SS                 |

| Environmental Action   | Timeframe           | Monitoring       | Responsible Person |
|--|---------------------|------------------|--------------------|
| approval requirements. Works must not recommence until the Snowy Monaro Regional Council has provided written approval to do so.   |                     |                  |                    |
| If human remains are discovered, works should immediately cease, and the NSW Police should be contacted. If the remains are suspected to be Aboriginal, the DPE may also be contacted at this time to assist in determining appropriate management   | As required         | Incident reports | All                |
| <b>Objective: Reduce Potential Impacts to Historic Heritage</b>  |                     |                  |                    |
| In accordance with Section 146 of the <i>Heritage Act 1977</i> , if an archaeological relic (such as a deposit or artefact) is uncovered during works, work must cease in the affected area and a qualified archaeologist contacted to assess the find. Further advice and clarification may be sought from the Heritage Council of NSW, or the Heritage Division under delegation regarding assessment and approvals. | As required         | Incident reports | SS                 |
| <b>Objective: Reduce Potential Noise impacts to Sensitive Receivers</b>  |                     |                  |                    |
| Avoid simultaneous operation of noisy plant within discernible range of a sensitive receiver.  | During construction | Weekly checklist | All                |
| Works will only occur during the following times: Monday to Friday 7:00 am to 5:00 pm, Saturday 8:00 am to 1:00 pm. Works will not operate after sunset to minimise indirect impacts to threatened fauna species which may utilise the area.   | During construction | Weekly checklist | SS                 |
| Plant used intermittently is to be throttled or shut down when not required.   | During construction | Weekly checklist | All                |
| Orient equipment such as offensive noise carriers away from sensitive receivers and potential fauna habitat.   | During construction | Weekly checklist | All                |
| <b>Objective: Reduce Dust Generation and Cumulative Greenhouse Gas Emission Impacts</b>  |                     |                  |                    |
| Works must be minimised during high wind periods.  | During construction | Weekly checklist | All                |
| Dust suppression should be applied as required to limit excessive dust generation  | During construction | Weekly checklist | All                |
| Plant and equipment must be regularly inspected to ascertain that fitted emission controls are operating efficiently.  | During construction | Weekly checklist | All                |
| Plant and equipment must be maintained in accordance with manufacturer's specifications to ensure that it is in a proper and efficient condition.  | During construction | Weekly checklist | All                |

| Environmental Action   | Timeframe | Monitoring          | Responsible Person   |
|--|-----------|---------------------|----------------------|
| Do not have machinery running while not in use.  |           | During construction | Weekly checklist All |
| Minimise use of machinery for required activity only.  |           | During construction | Weekly checklist All |
| Vehicles to maintain recommended speed.  |           | During construction | Weekly checklist All |
| Look for excessive dust generation and slow down if needed.  |           | During construction | Weekly checklist All |
| <b>Objective: Reduce Amount of Waste Generated from Works and Dispose of Appropriately</b>   |           |                     |                      |
| Resource management options for the project must be considered against a hierarchy of the following order embodied in the <i>Waste Avoidance and Resource Recovery Act 2001</i> :<br><ul style="list-style-type: none"> <li>Avoid unnecessary resource consumption</li> <li>Recover resources (including reuse, reprocessing, recycling, and energy recovery)</li> <li>Dispose (as a last resort)</li> </ul> |           | During construction | Weekly checklist All |
| All wastes must be classified in accordance with the Waste Classification Guidelines (DECC, 2009) prior to disposal and transported to a licensed waste disposal facility.   |           | During construction | Weekly checklist SS  |
| All waste must be secured at all times due to frequency of high winds at the site. This can be achieved by keeping waste in sealed/covered containers to avoid 'fly away' rubbish, this will also minimise occurrence of wildlife interaction.   |           | During construction | Weekly checklist SS  |
| All waste must be removed from the site on completion of the works.  |           | During construction | Weekly checklist SS  |
| Upon completion of waste disposal, all original weighbridge / disposal receipts issued by the receiving waste facility must be retained in a waste register as evidence of proper disposal.  |           | During construction | Weekly checklist SS  |
| An adequate number of bins must be placed at the site for workers and all litter will be placed in these bins. Work areas of the project site would be kept clean and free of litter, including cigarette butts, at all times  |           | Prior to works      | Weekly checklist SS  |
| <b>Objective: Reduce Potential Impacts to Traffic Flow</b>   |           |                     |                      |
| Only existing access tracks and parking is to be used at the site.   |           | During construction | Weekly checklist SS  |

| Environmental Action  | Timeframe           | Monitoring         | Responsible Person |
|---|---------------------|--------------------|--------------------|
| Vehicles, materials, and equipment must be positioned to minimise impacts to public access and parking. | During construction | Weekly checklist   | All                |
| Heavy vehicles, if required, will be restricted to specified routes.                                    | During construction | N/A                | All                |
| <b>Objective: Reduce Visual Impacts to Sensitive Receivers</b>  |                     |                    |                    |
| Notify community or neighbours where light impacts are anticipated.                                     | Prior to works      | Complaints records | PM                 |
| Position lighting in residential areas to direct light away from houses wherever possible.              | During construction | Weekly checklist   | All                |
| PM – PROJECT MANAGER, SS – SITE SUPERVISOR, ALL – ALL PERSONNEL (PM, SS, CONTRACTORS)                   |                     |                    |                    |



## Appendix B Site Environmental Plan



Figure 1 Site Environmental Plan

## Appendix C Site Environmental Inspection Checklist

**Table 3: Site Inspection Checklist**

| Constructor Details   |  | Site Supervisor - Environmental Checklist |                          |
|---|--|---|--------------------------|
| Project Title: Eagles Nest Optus Telecommunications Facility  |  |   |                          |
| Site Inspected: Eagles Nest   |  |   |                          |
| Time & Date:  |  | Weather:                                  |                          |
| <b>Soil Erosion and Sedimentation Controls are Complying</b>  |  |   |                          |
| Erosion and sediment controls have been installed in accordance with the 'Blue Book'.   |  |   | <input type="checkbox"/> |
| Erosion controls have been checked daily and after rainfall. Damaged controls were fixed immediately, and accumulated sediment or waste has been removed from within the sediment controls regularly. |  |   | <input type="checkbox"/> |
| The weather has been checked to ensure works do not occur within heavy rain periods.  |  |   | <input type="checkbox"/> |
| <b>Pollution and Soil Contamination</b>   |  |   |                          |
| All chemicals (e.g., fuel, oil) are in appropriate bunding/storage systems within the approved storage facility.  |  |   | <input type="checkbox"/> |
| All appropriate spill kits are carried with the equipment.  |  |   | <input type="checkbox"/> |
| Machinery has been appropriately cleaned, degreased and serviced prior to use at the site and/or entry into the waterway.   |  |   | <input type="checkbox"/> |
| All equipment is in good working order.   |  |   | <input type="checkbox"/> |
| Associated Safety Data Sheets (SDS) for all chemicals are present on site.  |  |   | <input type="checkbox"/> |
| <b>Biodiversity</b>   |  |   |                          |
| Ensure washdown areas are in working order and are being utilised.  |  |   | <input type="checkbox"/> |
| Ensure workers are aware of biodiversity controls including those associated with works near rocks.   |  |   | <input type="checkbox"/> |
| <b>Priority Weeds</b>   |  |   |                          |
| Equipment and vehicles have been washed down prior to and after use, to manage the introduction and spread of weed propagules.  |  |   | <input type="checkbox"/> |
| <b>Noise</b>  |  |   |                          |
| Simultaneous operation of noisy plants within discernible range of a sensitive receiver has been avoided.   |  |   | <input type="checkbox"/> |
| The distance between noisy plant items and nearby sensitive receivers and potential fauna habitat has been maximised.   |  |   | <input type="checkbox"/> |
| Equipment such as offensive noise carriers have been oriented away from residential receivers and potential fauna habitat.  |  |   | <input type="checkbox"/> |
| Plants used intermittently have been throttled or shut down when not required.  |  |   | <input type="checkbox"/> |
| Sensitive receivers have been notified of any works that are likely to be noisy at least five days prior to those works being carried out.  |  |   | <input type="checkbox"/> |
| <b>Air Quality</b>  |  |   |                          |
| Works have been minimised during high wind periods.   |  |   | <input type="checkbox"/> |
| Dust suppression has been applied as required to limit excessive dust generation.   |  |   | <input type="checkbox"/> |

**Constructor Details Site Supervisor - Environmental Checklist**

Plant and equipment have been regularly inspected to ascertain that fitted emission controls are operating efficiently.

Plant and equipment have been maintained in accordance with manufacturer's specifications to ensure that it is in a proper and efficient condition.

Machinery has not been running while not in use.

**Waste**

All wastes have been classified in accordance with the Waste Classification Guidelines (DECC, 2009) prior to disposal and transported to a licensed waste disposal facility.

Any excess spoil or waste material has been kept in a designated stockpile during construction works.

All waste has been removed from the site on completion of the works.

Upon completion of waste disposal, all original weighbridge / disposal receipts issued by the receiving waste facility have been retained in a waste register as evidence of proper disposal.

Work areas of the project site have been kept clean and free of litter, including cigarette butts, at all times.

**Traffic**

Vehicles, materials, and equipment have been positioned to minimise impacts to public access and parking.

**Visual Impacts**

Community or neighbours have been notified where light impacts are anticipated.

Lighting in residential areas has been positioned to direct light away from nearby businesses wherever possible.

Inspected by:                      Signature:

Actions:

By Who:

Date Completed:

