

Site Environmental Management Plan

Beginner Mountain Bike Trail & Skills Park,

Friday Flat

Thredbo Alpine Resort Kosciuszko National Park, NSW

April 2025



Department of Planning Housing and Infrastructure

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Signed Z Derbyshire

Sheet No 4 of 6



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Kosciuszko Thredbo Pty Ltd



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1 Introduction

This Site Environmental Management Plan (SEMP) has been prepared for implementation by Kosciuszko Thredbo Pty Ltd (KT) (and its contractors) for the construction of a beginner mountain bike trail at Friday Flat, within Thredbo Alpine Resort, New South Wales.

1.1 Purpose

The document outlines how construction activities for the Project are to be managed in order to maintain and protect the environmental values of the Project site and surrounds.

1.2 Objectives

The objectives of the SEMP are to:

- Provide mitigation measures to minimise the potential for environmental harm and/or environmental nuisance.
- Provide guidance for the development of detailed construction environmental management plans.
- Ensure all Project Personnel understand individual roles and responsibilities.
- Provide corrective actions to be implemented in the event of environmental harm and/or environmental nuisance. and
- Ensure Project personnel understand incident and emergency response procedures.

2 Reference Documentation

2.1 Legislation

The Project will be carried out in accordance with the applicable legislative requirements outlined in the following Acts and subordinate legislation:

- Environment Protection and Biodiversity Conservation Act 1999 (Cwlth);
- Biodiversity Conservation Act 2016;
- Environmental Planning and Assessment Act 1979;
- Environmentally Hazardous Chemicals Act 1985;
- Heritage Act 1977;
- National Parks and Wildlife Act 1974;
- Protection of the Environment Operations Act 1997;
- Waste Avoidance and Resource Recovery Act 2001;
- Water Management Act 2000; and
- Work Health and Safety Act 2011.

2.2 Guidelines, Procedures and Policies

- Guideline for the Preparation of Environmental Management Plans (DIPNR 2004)
- Managing Urban Stormwater: Soils and Construction, Volume 1, 4th Edition (Landcom 2004)
- Interim Construction Noise Guidelines (DECC 2009)
- NSW EPA Waste Classification Guidelines (NSW EPA 2014)
- Construction Site Incident and Emergency Procedures Thredbo Village, version 1.1
- Emergency Response Spill Procedure, version 1

- Standard Operating Procedure: Use and Maintenance of Wash Down Bay 2019
- Bushfire Danger Period Policy, version 2

3 Project Description

3.1 Project Location

The Project site is located within Thredbo, Kosciuszko National Park (KNP), approximately 35 kilometres (km) south-west of Jindabyne, NSW. The site is within the Thredbo Head Lease Area on land formally described as Lot 876 DP1243112.

The trail starts at the Merritts Gondola mid station and terminates at the base of Friday Flat.

3.2 Construction Activities

Pre-construction activities will comprise:

- Establishment of site boundary;
- Marking significant vegetation to be retained and no-go zones;
- Erection of site signage and traffic controls;
- Flagging exact trail alignment using pin flags to mark the edges of the trail for construction; and
- Mobilisation of machinery, equipment and construction materials to site.

Construction activities will comprise:

- Vegetation clearing (50 m increments) within the trail corridor to expose bare earth;
 - excess cut vegetation to be spread into the surrounding heath and used for rehabilitation of exposed soil on the trail edges;
 - o topsoil and vegetation sods are to be stockpiled close to the trail tread;
- Cut into the slope using a mini excavator and excavate the soil to achieve the appropriate depth of bench;
- Remove loose rocks, roots and compact the trail;
- Back slope the batter, ensuring outslope and appropriate drainage;
- Define the trail line using rocks, logs and other obstacles; and
- Re-instate the verge areas, topsoil and preserved vegetation sods.

Post-construction activities will comprise:

- Rehabilitation in accordance with the Rehabilitation and Monitoring Plan;
- Demobilisation of plant and machinery; and
- Site clean-up.

4 Construction Management Details

4.1 Construction Timing

Construction is anticipated to take approximately 2 weeks during the 2024/2025 year "summer construction period" (generally after the October long weekend and end no later than 30 April the following year), with finishing of rehabilitation and stabilisation works up until 30 May, or as otherwise approved.

4.2 Site Access

During construction, site access will be via the Mountain access road and secondary access tracks.

4.3 Vehicles, Machinery and Equipment

The Development will require (but not limited to) the following vehicles, machinery and equipment:

- mini excavator;
- motorised wheelbarrows;
- quad bikes;
- dump trucks (to and from stockpile sites);
- 4 WD vehicles;
- side-by-side vehicles; and
- handtools (i.e. chainsaws and brush-cutters).

4.4 Adverse Weather Contingencies

Adverse weather events (e.g. high winds, thunderstorms, heavy rain, hail, snow, bushfire and high temperatures) have the potential to negatively impact upon construction activities. To ensure appropriate consideration of such events, the Project and Construction Manager will monitor weather conditions throughout the construction period. The Bureau of Meteorology (BoM) Thredbo AWS station provides daily weather observation data for the resort. The NSW Rural Fire Service website 'Fires Near Me' includes information on current bush fires and other incidents, as well as warnings for fires which may affect your location.

If adverse weather events are anticipated and/or occur during construction, contingencies will be implemented and arrangements will be made to postpone construction activities.

The Construction Manager / Site Project Manager will be responsible for notifying construction staff of any impending adverse weather, and to implement appropriate controls onsite, such as:

- Erecting wind breaks or covering stockpiles to prevent materials being blown away.
- Evaluate temporary sediment and erosion controls to ensure they are adequately installed to withstand adverse weather events.
- Discontinue use of plant and machinery.
- Secure materials and equipment.
- Protect open excavations.

4.5 Stockpile Sites

Temporary stockpiles will be required within the construction corridor to effectively manage excavated materials, spoil, soil and vegetation during the works. Soil will be separated so that it can be used during rehabilitation works. The main stockpile sites are identified in **Appendix A**.

All stockpiles will be managed in accordance with the environmental controls in **Section 0** and the Erosion and Sediment Control Plan (**Appendix B**).

4.5.1 Construction Materials

Construction materials will likely include:

- Trail signs; and
- Gravel / decomposed granite for the trail surface.

4.5.2 Waste

Waste generated from the Development is expected to be minor. General litter bins, recyclable bins and KT's waste transfer facility will be used for the storage and disposal of construction waste. Excess spoil will be transported to the dedicated stockpiles sites, as shown in **Appendix B**.

4.6 Work Hours

All work in connection with the Development must be carried out between the hours of 7.00am and 6.00pm, 7 days a week, or as otherwise approved.

5 Environmental Management

5.1 Roles and Responsibilities

The roles and responsibilities are outlined in **Table 1**.

Table 1: Roles and Responsibilities

Role	Responsibilities
Project Manager	 Ensure the SEMP is made available, communicated, maintained and understood by all Project staff. Responsible for the overall management of the construction and operation of the Project. Ensure the SEMP is updated with applicable conditions of approval following the provision of Development Consent from Department of Planning and Environment (DPE). Ensure that the requirements of the SEMP and sub-plans have been addressed in all contractor environmental management documentation. Review of incidents, non-conformances and non-compliance. Ensuring Project personnel and contractors are adequately trained and qualified to fulfil their roles.
Site Project Manager	 Implement and maintain the SEMP. Ensure all Project personnel comply with the requirements of the SEMP. Report any incidents, non-conformances to the Project Manager.
Environmental Officer	 Oversee all works which are part of the Project on behalf of KT. Ensure compliance with all environmental protection measures detailed in the SEMP, supporting management plans and conditions of approval. Ensure all environmental controls are in place and adequately functioning during construction. and

	• Conduct construction inspections and complete reporting requirements e.g. progress reports, environmental incidents, non-compliance, corrective action and auditing.
All Personnel	 Comply with requirements of this SEMP. Report any actual or potential environmental incidents to the Construction Manager immediately. Identify and report non-conforming or potentially hazardous work practices, equipment, machinery or products. Only perform tasks for which they are trained and competent. Assist with environmental incident investigations and applying corrective actions. Ensure all machinery, plant and equipment are in good working order and condition prior to use.
Construction Contractor	 Comply with SEMP and legislative requirements. Construction contractor to develop and implement management plans in accordance with this SEMP, conditions of approval and contractual obligations.

5.2 Communication and Consultation

5.2.1 Training and Awareness

All Project staff will be made aware of the site-specific environmental controls through a site induction, and pre-start meetings / toolbox talks prior to the commencement of construction.

The site induction will cover the following key aspects:

- Roles and responsibilities.
- Overview of environmental risks and specific locations of environmental and/or cultural heritage significance.
- The scope of legislative requirements and other licences and approvals.
- Communication and notification requirements e.g. procedures for notifying and reporting incidents and complaints.
- Environmental management and controls stipulated in this SEMP.
- Workplace health and safety issues.
- Emergency preparedness and response.
- Procedures for notifying and reporting incidents and complaints.

5.2.2 Key Contacts

Key contacts for the Project are provided in **Table 2**. Prior to commencement of works, contact details (name and contact number) will be provided for Project personnel.

Table 2: Key Project Personne	el Contact Details
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Company / Agency	Role / Reason	Name	Contact
Government Agency Contacts			
Department of Planning and	Development approval and	-	(02) 6456
Environment (DPE) (Alpine	compliance		1733
Resorts Team)			
National Parks and Wildlife	Flora, fauna, archaeology	-	(02) 6450
Service (NPWS)			5600
Environment Protection	Water, noise, air pollution and	-	131 555
Agency (EPA)	regulation		
NSW Soil Conservation	Soil erosion and sediment control	-	02 9842
Service			8300

Thredbo Village Services			
Thredbo Medical Centre	General medical attention	-	(02) 6457
			6254
Fire and Rescue Thredbo,	Incident / emergency	-	(02) 6457
NSW			6144
Emergency Contacts			
NSW Police	In case of fire, medical or police	-	000
NSW Fire and Rescue	emergency	-	
NSW Ambulance		-	

5.2.3 Consultation

KT is committed to ensuring effective communication and consultation is undertaken to inform the development of this SEMP and ensure it is implemented on-site as per the Project roles and responsibilities in **Section 5.1.** Where required, communication with key external stakeholders such as DPE and NPWS will be undertaken. A summary of the key consultation activities is provided in **Table 3**.

Table 3: Summary of Consultation Activities

Consultation Activity	Communication Method	Frequency
Internal	Site inductions	Prior to commencement of works
	Pre-start meetings and toolbox talks	Daily
	Reports to Project Manager identifying project progress, any environmental incidents, and review of any complaints or enquiries	Weekly
External	Face-to-face meetings, phone and email correspondence with relevant Government Departments / Agencies	As required
	In-writing notifications to Government Departments / Agencies and relevant parties	As required

5.2.4 Notification Protocols

A summary of the key notification protocols is provided in **Table 4.** Notification requirements will be updated as required.

Table 4: Regulatory Agency Notification Protocols

Party to Notify	What to Notify	When to Notify	Responsibility to Notify Regulatory Agency
DPE	Commencement of construction	DPE will be notified in writing at least 48 hours prior to the commencement of construction.	Site Project Manager
NPWS	Details of any material suspected of being a European or Aboriginal	Immediately upon discovery of any archaeological/culturally significant site or relic that are encountered. NSW Police to also be notified	Site Project Manager

	culturally significant site, relic or artefact.	immediately upon discovery of human remains.	
NSW Environmental Protection Agency	Details of pollution incident – who, what, when, where, how, any other supporting information and evidence (e.g. photos)	Immediately upon identification of pollution incident causing or threatening material harm to the environment, in accordance with KT's Construction site Incident and Emergency Procedures Thredbo	KT Environmental Manager

5.3 Environmental Incident and Emergency Response

All Project personnel are required to follow KT's **Construction site Incident and Emergency Procedures Thredbo Village.** The procedure will be available on-site and all Project staff will be trained on their implementation through the site induction. The procedure classifies examples of emergencies and incidents and provides specific procedures for response to such events, such as:

- Serious injuries requirement urgent medical help.
- There are threats to property or life.
- Criminal activity e.g. you have witnessed a serious crime or accident.
- Sewer or water service breaks.
- Bushfire, building fire, spot fire on-site.
- Electricity service faults.
- Leaking gas.
- Fires and explosions.
- Release of pollution e.g. release of sediment into watercourse, chemical spill.

The procedure also outlines general site management principles, incident reporting and notification requirements and provides an emergency contacts list.

In the event of an environmental incident, emergency or near-miss, the following steps should be taken:

- 1) **STOP** works in the area and if safe to do so ensure the safety of personnel within the vicinity.
- 2) **NOTIFY** relevant persons e.g. emergency services or Construction Manager.
- 3) **ISOLATE** the risk or hazard e.g. turn off machinery/plant, implement immediate site controls, set up exclusion zone. and
- 4) **REPORT** and notify relevant persons (e.g. Project Manager, regulatory agencies).

Environmental incident and near-miss reporting requirements are detailed in **Section 7.3**. Contact details for key Project personnel and emergency services are provided in **Table 2**.

External contractors are required to prepare and implement an emergency and incident response procedure. The contractor will be responsible for responding to any environmental emergency caused by any action (or inaction) of the contractor's staff, including notification requirements to external parties such as EPA and Fire, Fire and Rescue NSW.



6 Environmental Controls

6.1 General

- Ensure works are conducted by suitably qualified and trained personnel.
- Ensure all site environmental management controls relevant to that stage of work are implemented in accordance with the approved plans and conditions of consent.
- Provide approved plans and relevant documentation in the site office or other suitable location so that they are easily accessible by all construction staff.

6.1.1 Site Establishment

- Establishment of site boundary with temporary fencing, rope or flagging to clearly delineate the construction corridor and "no-go" areas.
- Erection of site signage and pedestrian/traffic controls.
- Installation of erosion and sediment controls.

6.1.2 Machinery and Storage

- All equipment, machinery and vehicles used during construction of the Project must be cleaned prior to entry into the Park and prior to site mobilisation to ensure they are free of mud and vegetative propagules.
- Equipment, machinery, and vehicles must be regularly maintained and manoeuvred to prevent the spread of exotic vegetation.
- Storage of equipment, machinery, vehicles and material is to be restricted to existing disturbed areas (i.e. at the stockpile, formed roads and within the construction corridors) and avoid undisturbed areas.
- All vehicles and machinery entering Thredbo must adhere to the **Standard Operating Procedure: Use and Maintenance of Wash Down Bay**
- On-ground machinery used in vegetation removal and trail construction must adhere to the following:
 - the tread width of on-ground machinery used in trail construction must not exceed 1500 mm
 - o disturbance/works must be entirely contained within the disturbance corridor.

6.2 Soil and Water Quality

	Soil and Water Quality	
Objective	No impact of soil erosion from project activities.	
	No impact on receiving waters arising from project activities.	
	No land or water contamination as a result of project activities.	
Mitigation M	easures	Timing
Soil and stock	pile management	Construction
• All stockpiles will be constructed and managed in accordance with Soil		
Stockpile Guidelines for the Resort Areas of Kosciuszko National Park (OEH		
2017	7).	
• Tem	porary stockpile sites within the construction corridor should adhere to	
the	ollowing criteria (Landcom 2004; OEH 2007):	
-	not exceed 2 m in height, have a slope <50% (26°)	
-	be at least 2 m from vegetation, concentrated water flows, roads,	
	publicly accessible areas or hazardous areas	
-	avoid impacts to native vegetation and be located on disturbed areas	

– lo	ocated directly adjacent to the works	
– lo	ocated on relatively flat ground, where possible	
– ir	n areas with sufficient room to accommodate the volume of material	
b	eing stockpiled	
– b	e contained by appropriate erosion and sediment controls.	
 Any ex 	cess excavated material will be removed from site and transported	
to the	designated soil stockpiles sites.	
Vehicle and ma	chinery movement should be restricted to existing access tracks and	Construction
the construction	n corridor.	
Implement Eros	sion and Sediment Control Plan (Appendix B). All erosion and	Construction
sediment contro	ol devices will be inspected regularly (including immediately after	
rainfall) and wil	l be maintained and repaired as necessary so that they remain	
effective for the	e works duration.	
Performance	No significant sediment deposition observed leaving the site.	
Criteria		
Corrective	If sediment is observed leaving the site, identify the source and amend the ESCs	
Actions	on-site to ensure appropriate controls are in place. If required, additional ESCs to	
	be installed.	

6.3 Flora and Fauna

6.3.1 Vegetation and Habitat

	Vegetation and Habitat		
Objective	Minimise impacts to native flora and fauna.		
Mitigation Me	easures	Timing	
All clearing must only occur within approved development corridor. The construction corridor is to be clearly identified with flagging tape to mark no- go/no clearing zones prior to construction. Mature trees and rocks required to be removed are to be clearly identified.		Vegetation clearing	
Officer immed not be remove	must be checked for fauna habitats and fauna by the Environmental liately prior to felling/removal. Vegetation with active nests must ed until the young have left the nest. If fauna is present, then the e contacted to assist with mitigation actions.	Vegetation clearing	
Clearing shoul disturbed area	d remove habitats in stages to allow movement of fauna away from as.	Vegetation clearing	
All disturbance should be kept to the minimum required to achieve the proposal.		Vegetation clearing & construction	
All machinery to be used during the construction phase should be limited to the existing disturbed areas and access tracks.		Vegetation clearing & construction	
Progressive rehabilitation is to be undertaken in accordance with the Rehabilitation and Monitoring Plan. All rehabilitation should be undertaken in accordance with the <i>Rehabilitation Guidelines for the Resort Areas of Kosciuszko</i> <i>National Park</i> (DECC 2007).		Construction & post- construction	
 Management / use of cleared excess vegetation All excess cleared vegetation must be removed from site to be utilised in other rehabilitation projects. Cleared native vegetation to be dispersed on exposed soil along the trail edge, placed on batters & embankments for erosion control or carefully spread further into bushland to avoid smothering of understory vegetation communities. 		Vegetation clearing	
Scrub	arian Scrub rail must be at least 15m from the outer limit of Subalpine Riparian), except for the sections of trail that are located on previously rbed land as per the Site Plan.	Vegetation clearing & construction	

Possum (Cerca to felling. A tre effectively pro	he potential provide hollows and habitat for the Eastern Pygmy rtetus nanus) must be inspected by the Environmental Officer prior ee with a diameter at breast height of less than 200 mm can vide hollows and habitat for The Eastern Pygmy Possum as they as small as 5cm diameter.	Vegetation clearing & construction
Performance	No damage to site fencing.	
Criteria	No damage to native vegetation (including vehicle tracks) associated with unauthorised	
	access.	
Corrective	orrective Fencing to be repaired / reinstated by appointed contractor.	
Actions	Entry points for unauthorised access to be identified and access restricted through fencing	
	or other appropriate barriers.	

6.3.2 Native Fauna

Native Fauna Management		
Objective	To minimise potential impacts to native fauna, their breeding places	and habitat.
Mitigation Mea	sures	Timing
Wombat burrov	vs are to be avoided, where possible. If any wombat burrows are to	Prior to vegetation
be impacted by	the works, a Wombat Management Plan is to be prepared for	clearing works &
endorsement by	/ NPWS and approved by the Planning Secretary or nominee and	prior to construction
implemented pr	ior to and throughout construction.	
Maintain a clear	n and tidy work area to ensure animals are not attracted to the site,	Construction
including provis	ion of covered bins during proposed works.	
Performance	Performance No death or injury to fauna as a result of on-site activities. No disturbance outside the	
Criteria	Criteria approval disturbance area.	
Corrective	orrective Review and implement suitable strategies to dissuade fauna from coming to site.	
Actions	Actions Contact NPWS / LAOKO if injured fauna is identified as a result of site activities.	

6.3.3 Exotic Species

	Exotic Species Management	
Objective	To reduce the risk of introducing invasive/pest species.	
Mitigation M	easures	Timing
All relevant w	eed species that occur within the construction corridor and	Prior to vegetation
associated sta	aging and stockpile sites must be treated prior to works commencing	clearing & prior to
to ensure the	se weeds are not spread further at the site or within KNP.	construction
If an area of v	egetation proposed for removal includes any relevant weed species	Prior to vegetation
then the vege	tation must be removed completely from site, not spread out within	clearing & prior to
the existing ve	egetation or used in rehabilitation and stabilisation works.	construction
All machinery	and equipment used during construction must be cleaned prior to	Construction
entry into KN	P and prior to site mobilisation to ensure the machinery is free of	
mud, vegetati	ve propagules, and pathogens. This includes machinery that may	
have been wo		
be redeployed		
areas.		
All vehicles and machinery entering Thredbo must adhere to the Standard		Construction
Operating Pro	ocedure: Use and Maintenance of Wash Down Bay. The wash down	
bay is located	at the Thredbo Waste Transfer Station for use by KT staff and	
contractors.		
All machinery and equipment must be stored on existing disturbed areas (i.e. at		Construction
the stockpile	and staging areas proposed on the ski slopes) and should not be	
stored on nat	ive vegetation.	
All machinery	to be regularly maintained and manoeuvred to prevent the spread	Construction
of weeds and	pathogens.	

Performance	No introduction of invasive species as a result of construction activities.	
Criteria		
Corrective	Review existing biosecurity procedures (e.g. clean down procedure) and implement	
Actions	additional controls if required.	

6.4 Air Quality

	Air Quality Management	
Objective	To minimise potential impacts on sensitive receivers from dust and ot from construction activities.	her air pollution
Mitigation Meas	ures	Timing
-	will be managed through typical dust suppression that will include ed spoil, minimising ground disturbance and covering loads.	Vegetation clearing & construction
Plant and equipn air pollution.	nent to be maintained and operated in an efficient manner to reduce	Construction
Vehicles are to a hauled materials	dhere to speed limits to minimise dust general and potential spill of	Construction
-	ing spoil or rubble to/from site should be covered to prevent the r other material. Covers are to be adequately secured.	Construction
Performance Criteria	No complaints received in relation to air pollution.	·
Corrective Actions	 If complaints are received, the following steps should be taken: Investigate specific cause of complaint. Review site activities/processes and identify the source of air emissions. Implement immediate corrective actions on-site e.g. water site, replace equipment deemed to be poorly maintained. If required, implement administrative controls e.g. additional staff training, alter construction methods or timing for undertaking dust generating activities. 	

6.5 Noise and Vibration

Noise and Vibration Management		
Objective	To ensure that noise and vibration from construction activities does environmental nuisance in the locality.	not cause
Mitigation Meas	ures	Timing
	ng and information will be provided to project personnel in relation ise pollution as much as practicable when in close proximity of rs.	Site induction
Selection of the most appropriate plant and equipment to minimise noise generation.		Prior to construction & construction
Construction works will be undertaken during standard work hours.		Construction
works and opera	e management strategies will be implemented for construction tion of plant in accordance with the Australian Standard AS 2436- bise and vibration control on construction, demolition and es.	Construction

-	re to be undertaken to ensure all equipment and vehicles are in good nd are operated correctly.	Construction	
All plant will be i	maintained in accordance with the manufacturer's requirements.	Construction	
Performance	No construction related noise and vibration complaints received.		
Criteria	No unreasonable noise or vibration.		
Corrective	If complaints are received, the following steps should be taken:		
Actions	Investigate specific cause of complaint.		
	• Review site activities/processes and identify the source of the noise emissions.		
	• Implement immediate corrective actions e.g. swap out noisy equipment.		
	If required, implement administrative controls e.g. additional staff training or		
	change work hours to minimise noise.		

6.6 Fuels, Chemicals and Hazardous Substances

	Fuels, Chemicals and Hazardous Substances	
Objective	Eliminate the potential for release of fuels, chemicals and hazardou environment.	us substances to the
Mitigation Meas	ures	Timing
site at all times.	bill kits containing suitable spill response materials shall be kept on Spill kit materials shall be used in the event of a spill. Any oil spilt nsfer or at other times shall be immediately contained and cleaned	Construction
	n on-site spill, construction staff will follow KT's Construction Site ergency Procedures Thredbo Village, version 1.1.	Construction
	ances, toxic materials or dangerous goods must not be stored or e at any time without prior approval from the DPE Secretary or	Construction
	als will be appropriately stored and handled in accordance with an Standards and Codes of Practice.	Construction
Appropriate cont machinery.	rols will be implemented when refuelling Project vehicles and	Construction
Performance Criteria	No fuel, chemical or hazardous substance spills.	
Corrective Actions	Corrective actions will be taken in accordance with the Construction Site Incident and	
Actions	Emergency Procedures Thredbo Village , including: immediate spill response, implementation of any necessary control measures as directed by authorities. Where required, an investigation will be undertaken to determine the root cause.	

6.7 Traffic and Access

	Traffic and Access Management	
Objective	Minimise impacts on existing road network.	
	Minimise impacts to pedestrians and bike riders.	
Mitigation Meas	sures	Timing
Traffic and const operation in the	ruction vehicle access will be managed as per regular daily resort.	Construction
All Project vehicl within construct	es and machinery to adhere to speed limits and signage and stay ion corridor.	Construction
Appropriate signage, fencing or demarcation to be installed to manage access to and around the construction corridor.		Construction
Performance	No significant impacts to existing road network or users.	
Criteria	No complaints in relation to traffic or vehicle operators.	
CorrectiveIf complaints are received, traffic management procedures will be reviewed and amendedActions(if necessary).		reviewed and amended

6.8 Waste

	Waste Management	
Objective	Minimise construction waste as much as practicable. Reduce the impact of waste on-site and beyond the site boundary.	
Mitigation Mea		Timing
	e managed and disposed of in accordance with the legislative nd the Waste Classification Guidelines (DECCW 2009).	Construction
Where possible, from landfill.	construction materials will be salvaged for reuse to divert waste	Construction
All receptacles will be in good condition. Construction		Construction
All waste transportation vehicles will be covered appropriately to ensure waste Construction cannot spill, leak or escape onto the road or wash into stormwater drains.		Construction
Ensure that the waste facility.	waste is being transported to a place that may be lawfully used as a	Construction
Excavated soils	to be reused for backfilling where possible.	Construction
Performance Criteria	No litter or waste material to be released from site in an uncontroll	ed manner.
Corrective Actions	 Investigate cause of inappropriate waste disposal/manage Review on-site waste handling facilities and implement cor change in receptacle size and/or waste management signa If required, implement administrative controls e.g. addition training for staff. 	rective actions e.g. ge.

6.8.1 Waste Generation

Waste generated from the Development is expected to be minor. General litter bins, recycling bins and KT's waste transfer facility will be used for the storage and disposal of construction waste. Excess spoil will be transported to the dedicated stockpiles sites (**Appendix A**).

6.8.2 Imported materials and stabilising agents

NPWS requests that its authorisation is sought where the proponent intends to utilise either of the following in construction or maintenance of the trail:

- Imported gravel or fill material; or
- soil stabilising or adhesive agents.

The proponent may obtain imported gravel or fill material from sources already assessed by NPWS as appropriate for use in KNP, being gravel or fill material from:

- the McMahons Earthmoving quarry, located on Alpine Way, Crackenback NSW; or
- the Kraft Earthmoving / Snowy

6.9 Aboriginal Cultural Heritage

6.9.1 Unexpected Finds Procedure

Where unexpected items of potential archaeological, built or Aboriginal cultural heritage significance are discovered, Project personnel will follow the below procedure:

- **STOP:** Stop work and leave the site or item where it is.
- **NOTIFY:** Notify the Project Manager and NPWS to arrange for representatives to inspect the site. If human remains are found, the NSW Police must also be notified.
- **MANAGE:** Management may involve securing the find by erecting a no-go zone.

• **REPORT:** The Project Manager will complete any reporting requirements, as directed by NPWS.

6.10 Bushfire Protection

The construction contractor would be responsible for determining relevant requirements for the site and ensuring staff are aware of bushfire avoidance, evacuation, and management measures e.g. prior to undertaking works the construction contractor should confirm that there is no current total fire ban or Kosciuszko National Park fire ban as this may place restrictions of activities such as use of plant or machinery in grass/bush settings.

The **Construction Site Incident and Emergency Procedure** outlines procedures for responding to fire and bushfire incidents or emergencies. This procedure is made available to all construction staff. In the event of a bushfire, Kosciuszko Thredbo (the head lessee) would implement the resort-wide Bushfire Evacuation Plan. The plan has been designed to assist management and emergency services to protect life and property in the event of a bush fire or other emergency.

7 Monitoring and Reporting

7.1 Environmental Monitoring

The Environmental Officer will conduct monitoring during all project phases (pre-construction, during construction and post-construction) to ensure compliance with this SEMP, associated management plans and conditions of approval.

7.2 Weekly Environmental Reporting

The Environmental Officer will provide copies of the **Site Environmental Management Measures Report** to the Project Manager on a weekly basis. All records will be stored within KT's files and distributed to relevant persons / regulatory authorities as required.

7.3 Environmental Incident Reporting

All incidents and near misses will be managed in accordance with KT's **Construction site Incident and Emergency Procedures Thredbo Village**. The document provides procedures for responding to incidents and emergences, reporting and notification requirements and emergency contacts.

The following information should be recorded:

- Time and date of the incident / near miss
- A description of the incident / near miss
- A sequence of events that led to the incident / near miss occurring
- Person/s involved in the incident / near miss (including witnesses)
- Written statements from person/s involved (as applicable)
- Details of corrective actions.

The **Environmental Incident Report Form** should be completed for all environmental incidents. All parts of the form must be completed in accordance with KT's incident procedure and following the

instructions within the form. The form must be signed by the person making the report and the Project Manager/person in charge of the site/activity.

7.4 Non-conformance

A non-conformance is the failure to comply with the requirements of this SEMP and supporting management plans. Non-conformances identified via site inspection or during day to day activities will be documented on the **Site Environmental Management Measures Report** (or similar contractor's form) and closed out in subsequent inspections. The Environmental Officer is responsible for investigation and managing corrective and preventative actions in the event of non-conformance or a situation likely to cause environmental harm.

7.5 Corrective Actions

Corrective actions should be prioritised on the following hierarchy of controls:

- 1. Elimination can activities and processes be eliminated to reduce the risk of reoccurrence?
- 2. Substitution can activities be substituted with another activity of lesser risk?
- 3. Isolation can you isolate the hazard from any person exposed to it?
- 4. Engineering controls can you reduce the risk of reoccurrence through engineering changes?
- 5. **Administrative controls** can a change in work practices, additional training or additional checks reduce the risk?
- 6. Personal Protective Equipment (PPE) can PPE be worn to protect personnel from harm?

The Construction Manager will be responsible for managing the implementation of corrective actions on-site.

7.6 Complaints Management

Should complaints be received from the public in relation to the Project they will be recorded using the **Complaints Form** (or similar contractor's form). The Project Manager will be responsible for investigating, recording and closing out any complaints received. All records will be stored within KT's files and distributed to relevant persons / regulatory authorities as required.

8 Record Keeping and Review

8.1 Document Control

All Project related documentation will be maintained within KT's Project file. Documents stored within the file include (but not limited to) the following:

- Copies of relevant planning approvals and documents, licences and permits.
- All completed induction forms and visitor sign-on register.
- Records of routine environmental inspections.
- Records of any environmental incidents, complaints, non-conformances and no-compliances.

8.2 SEMP Review

This SEMP is a live document and will undergo reviews and amendments as necessary. Reviews will generally be undertaken –

- If there is a change in the scope of the Project.
- Prior to commencement of construction to ensure any relevant conditions of consent and/or other approval, licence or permit requirements are incorporated.
- If there is a need to improve environmental controls to protect environmental values.
- If there is an increase or introduction of a new environmental risk or impacts.
- At the end of a Project to allow for improvements in subsequent Projects.

9 References

Department of Environment and Climate Change (DECC) 2007, Rehabilitation Guidelines for the Resort Areas of Kosciuszko National Park, NSW Government.

Department of Environment and Climate Change (DECC) 2009, Interim Construction Noise Guideline, July 2009, <u>https://www.epa.nsw.gov.au/-/media/epa/corporate-</u> site/resources/noise/09265cng.pdf?la=en&hash=EF4576FD79DBB25D5AC22DFA1A883A2BADA1F77 <u>B</u>

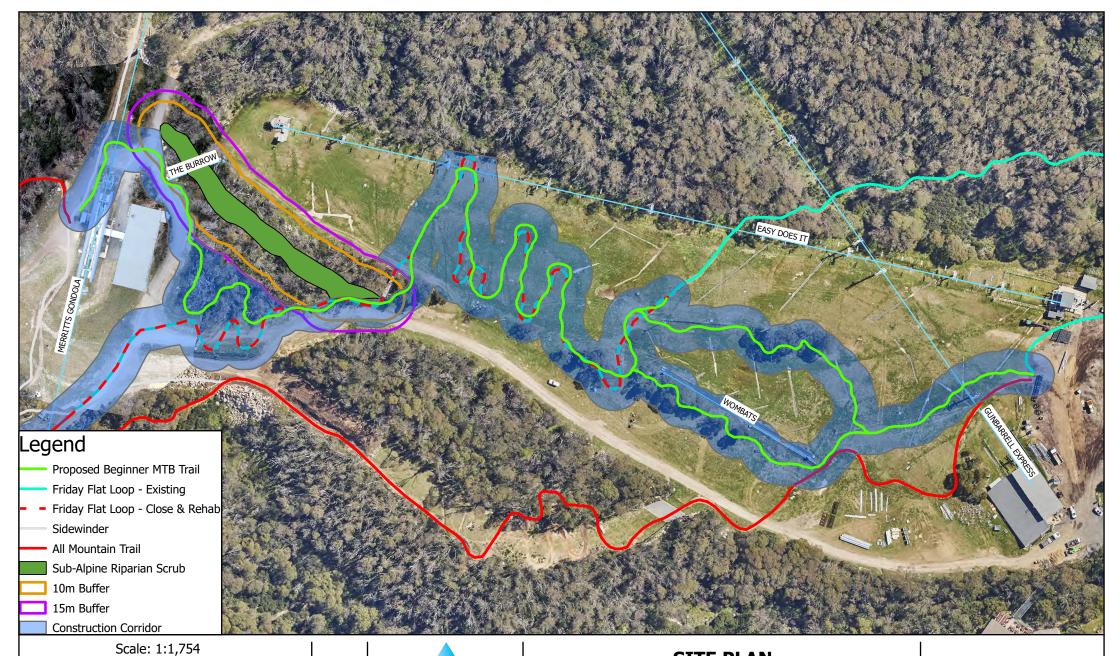
Department of Infrastructure, Planning and Natural Resources (DIPNR) 2004, Guideline for the Preparation of Environmental Management Plans, https://www.planning.nsw.gov.au/~/media/Files/DPE/Guidelines/guideline-for-the-preparation-ofenvironmental-management-plans-2004.ashx?la=en

Department of Planning & Environment (DPE) (2017) What to include with your development application, version January 2017, <u>https://www.planning.nsw.gov.au/Policy-and-</u> Legislation/~/media/65E2BA89886F426991525FF25707A9A9.ashx

Office of Environment and Heritage (OEH) 2017, *Soil Stockpile Guidelines for the Resort Areas of Kosciuszko National Park, version 1.0, October 2017*, NSW National Parks and Wildlife Service.

10 Appendices

Appendix A Plans



Ν

THREDBO

80

Meters

60

0 10 20

40

Map Projection: Universal Transverse Mercator

Horizontal Datum: GDA 2020 Grid: GDA 2020 MGA Zone 55

SITE PLAN

Project: Proposed Beginner MTB Trail & Skills Park

Revision: E Date: 04/02/2025 Produced By: BB



Appendix B Erosion and Sediment Control Plan

Erosion and Sediment Control Plan

Beginner MTB Trail and Skills Park, Friday Flat

PURPOSE

The purpose of this Erosion and Sediment Control Plan is to outline the intentions and fundamental principles that will be followed in the planning and implementation of erosion and sediment control (ESC) measures for the project during construction.

OBJECTIVES

To minimise potential impacts from construction works to receiving waters.

To reduce the potential for erosion and sediment moving offsite.

SCOPE OF THIS PLAN

At this stage of the proposal it is not practicable to specifically locate all erosion and sediment controls on a plan. This preliminary plan identifies appropriate controls specific to project activities to prevent sedimentation and pollution of receiving waters, and minimise potential impacts on vegetation communities with and adjacent to the site.

A detailed erosion and sediment control plan is to be prepared in conjunction with detailed design as part of the construction certificate.

GUIDELINES

- Managing Urban Stormwater: Soils and Construction, Volume 1, 4th Edition (Landcom 2004)
- IECA Best Practice Erosion and Sediment Control
- Erosion and Sediment Control: A field Guide for Construction Site Managers (Catchments & Creeks Pty Ltd, 2012)

EROSION AND SEDIMENT CONTROLS

Implementation of appropriate controls and locations will be the responsibility of the construction contractor. Controls to be installed prior to any construction work (where required) and retain in place until exposed areas of soil or vegetation are stabilised/rehabilitated.

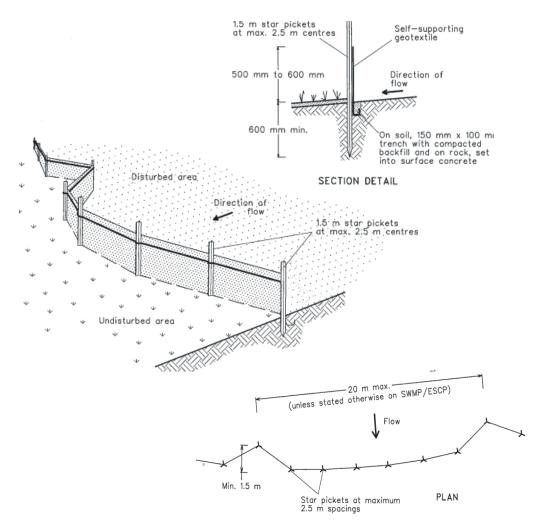
Sediment fencing and straw bale filter fencing is to be utilised during construction of the trail and stockpiling, as required. Controls are to be installed prior to works and retained in place until exposed areas of soil are stabilised.

Sediment Fence

The purpose of sediment fencing is to prevent sediment run-off and divert water around and away from disturbed areas. Sediment fencing should be used on the downslope side of works area, wetter areas and surrounding stockpiles.

Construction notes:

- 1) Construct sediment fences as close as possible to being parallel to the contours of the site, but with small returns to limit the catchment area of any one section. **The catchment area should be small enough to limit water flow if concentrated at one point to 50 L/s in the design storm event, usually the 10-year event.*
- 2) Dig a 150 mm deep trench along upslope line of fence for the bottom of the fabric to be entrenched.
- 3) Install 1.5 m long star pickets into ground at 2.5 m intervals (max) on the downslope edge of the trench. **Fit star pickets with safety caps.*
- 4) Fix geotextile to the upslope side of the posts ensuring it goes to the base of the trench.



Standard Sediment Fence Installation (Source: Landcom 2004)

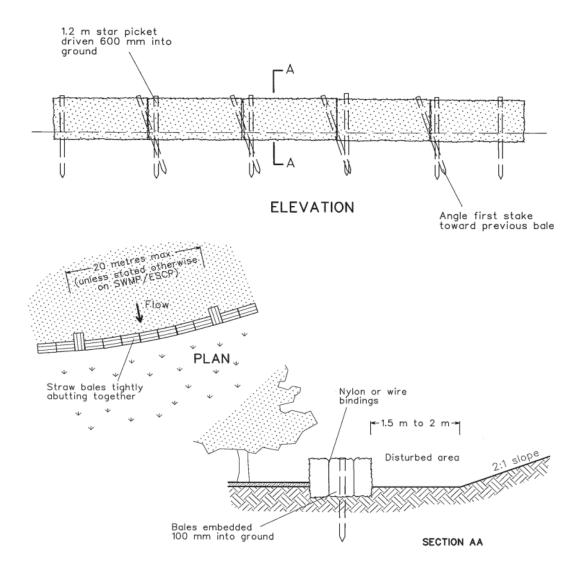
Straw Bale Filter Fence

Straw bales may be used to divert water around and away from disturbance areas during downslope and cross-slope excavations. Straw bales are to be used on the uphill side of works area running cross-slope.

Construction notes:

 Construct the straw bale filter as close as possible to being parallel to the contours of the site.

- 2) Place bales lengthwise in a row with ends tightly abutting (1 bale = max height of filter). Fill gaps between bales with straw and wrap with geofabric where necessary.
- 3) Embed each bale in the ground 75-100 mm and anchor with two 1.2 m stakes/star picket. Angle the first stake in each bale towards the previously laid bale. Stakes should be driven 600 mm into ground, sitting flush with top of bale (if possible). **If using star pickets which protrude above bales, fit with safety caps.*
- 4) Where a straw bale filter is constructed downslope from a disturbed batter, ensure the bales are placed 1-2 m downslope from the toe.



Standard Straw Bale Filter Installation (Source: Landcom 2004)

Cross Drainage and Sediment Barriers

The recommended spacing for cross drainage and sediment barriers is provided below.

Slope Grade (%)	Cross Drain / Sediment Barrier (m)
5-10	15-20
10-15	10-15

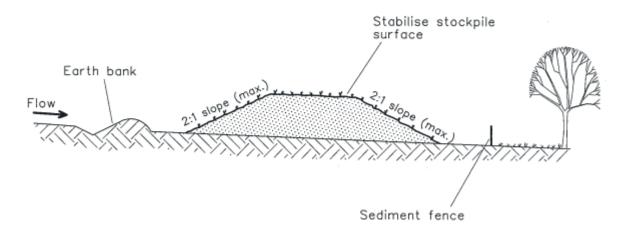
15-25	8-10
>25	5-8

Source: NPWS 2007; Parr-Smith and Polley (1998)

Note: To calculate the grade of a slope: (rise/run) x 100 = slope grade

Soil and Stockpile Management

- All stockpiles will be constructed and managed in accordance with *Soil Stockpile Guidelines for the Resort Areas of Kosciuszko National Park* (OEH 2017).
- Temporary stockpile sites within the construction corridor should adhere to the following criteria (Landcom 2004; OEH 2007):
 - not exceed 2 m in height, have a slope <50% (26°)
 - be at least 2 m from vegetation, concentrated water flows, roads, publicly accessible areas or hazardous areas
 - avoid impacts to native vegetation and be located on disturbed areas
 - located directly adjacent to the works
 - located on relatively flat ground, where possible
 - in areas with sufficient room to accommodate the volume of material being stockpiled
 - be contained by appropriate erosion and sediment controls.
- Any excess excavated material will be removed from site and transported to the designated soil stockpiles sites.



Stockpile Management (Source: Landcom 2004)

Appendix C Environmental Schedules

THREDBO ENVIRONMENTAL SERVICES

Record of complaint

		Sheet	of
Project:	Date / Time:		
Received by:	Reference Nu	ımber:	
Complainant details:	Witness details:		
Nature of complaint:			
Action taken:			
		••••••	



Confidential document after first entry

The purpose of this form is to report any incident that may have resulted in Environmental harm on Kosciuszko Thredbo Pty Ltd premises. Remember to be succinct, stick to the facts and do not make assumptions. Only record information you know to be correct.

The only persons authorised to contact external agencies eg EPA in relation to environmental incidents are the Kosciuszko Thredbo General Manager and Environmental Services Manager or their approved delegates.

Return completed form to the Environmental Services Manager as soon as practicle, on completion of the Environmental incident.

Date of Incident:	Time of incident:
Reported by:	Department:

Location of Incident

EXACT location of the incident (include landmarks and features, nearest cross street etc to make it easier to identify later)		
Site:	Building:	Room:

Description of incident

Provide description and extent of incident:
r tovide description and extent of moldent.
Have relevant photos been taken and attached? Yes 🗆 No 🗆
If 'No', provide sketch and attach to the rear of this document.
What was the estimated duration of the incident?

Type of incident

 Spill (including fuel,oil,waste material or other polluting substance) 	Erosion and sedimentation incident	Contaminated water discharge
□ Noise emission/complaint	Unauthorised/accidental damage to heritage item	Unauthorised/accidental vegetation removal or harm
Air Emission	Wildlife habitat/nesting area disturbed	Other (specify)



Kosciuszko Thredbo Py Ltd Environmental Incident Reporting Form

Level of incident

Level	Example
Minor	eg. No material has escaped the site or caused material harm to the environment – it is
	easy to clean up without additional assistance.
□ Major	eg. Material has escaped the site causing pollution downhill/downstream areas, which will
	require clean up involving other agencies and/or additional resources not available to local
	site management. Damage has occurred or is likely to occur to the environment.

Hazardous Material Spilt

Petroleum based products/ Hydrocarbons	Chemicals domestic or industrial grade
□ Biological waste / Clinical and related waste	PCB insulating liquids
CFC containing equipment	□ Paints or paint products
□ Radioactive waste	□ Other (specify)
Detail type/ingredient spilt: (UN, MSDS details)	
Detail concentration of material spilt:	
Detail quantity of material spilt:	

Type of Spill

□ Spilt onto ground	□ Spilt into stormwater drain
□ Spilt into waterway	□ Poured down sink
Poured down sewer	□ Released into atmosphere
Caused odour	Caused fire/explosion
Caused infectious contamination	□ Other (specify)

Immediate Actions

Was spill contained? Yes 🛛 No 🗆
Detail immediate actions/controls measures taken to rectify or contain the incident



Kosciuszko Thredbo Py Ltd Environmental Incident Reporting Form

Corrective Actions
Detail corrective clean up action taken

Disposal

etail disposal method/plans and location	
	••
	••
	••

Recommended follow up and preventative actions

tail recommendations	
	• • • •
	••••
	• • • •

Persons present at Incident

Were there	any witnesses to	the accident?	Yes 🗆 No 🗆	If 'Yes', please provide names

Declaration

The information and answers given above are true in every detail and no information has been withheld.

Departmental Supervisors Name	
Departmental Supervisors signature	Date

Departmental Managers Name	
Departmental Managers signature	Date



Kosciuszko Thredbo Py Ltd Environmental Incident Reporting Form

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Created By: Created Date: Review Date: Reviewed Date: Paul Corcoran 24 Mar 2009 24 Mar 2017 7th January 2020, by E Diver