Site Environmental Management Plan

Sewer and Water Supply, Diggings Terrace, Thredbo
NSW 2625

Thredbo Alpine Resort
Kosciuszko National Park, NSW

March 2025

Document Control

Version	Issue Date	Summary	Author	Approved by
A	16.08.2024	Draft	J. Best; K.OSullivan	C.Chalk
0	18.09.2024	Final	J. Best; K.OSullivan	C.Chalk
1	03/02/2025	Address Sandria Butler's queries re site access details and update Site Plan	-	C.Chalk
2	13/02/2025	Address DPHI Mark Brown's email dated 4/2/2025.	K.O'Sullivan	C.Chalk
3	10/03/2025	Replacement of Site Plan with Rev H and amendment to wording in Section 3.1 re works on Squatters car park as requested by DPHI Sandria Butler	-	C.Chalk

Project Number: 24005ES

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 installation of sewer and water services within Diggings Terrace, Thredbo NSW 2625 (the Project).

1.1 Purpose

This SEMP has been developed to outline 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 Objective

The objectives of this 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.
- Ensure Project personnel understand incident and emergency response procedures.

2 Reference Documentation

2.1 Summary of Statutory Requirements

- *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

- Guideline for the Preparation of Environmental Management Plans (DIPNR 2004)
- Managing Urban Stormwater: Soils and Construction, Volume 1, 4th Edition (Landcom 2004)
- Managing Urban Stormwater: Soils and Construction, Volume 2A, Installation of services (NSW DECC 2008)
- Interim Construction Noise Guidelines (DECC 2009)
- NSW EPA Waste Classification Guidelines (NSW EPA 2014).

2.3 Procedures & Policies

The following Kosciuszko Thredbo procedures and guidelines apply to the Project:

- 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

The Project is for the installation of sewer and water services within Thredbo Village, NSW 2625. Refer Site Plan provided with the DA application.

3.1 Construction Activities

Pre-construction activities involve site preparation works, which will include:

- Establishment of site boundary/fencing
- Erection of site signage and pedestrian/traffic controls
- Installation of erosion and sediment controls
- Isolation of required services
- Removal of vegetation
- Craning in 1.6 Tonne excavator to Lot 793.

Sewer Main Installation:

- Use of a crane to lift in a small 1.6T excavator into place from Lot 792 to the construction corridor in Lot 793. Minor trimming of vegetation/branches bordering lots Lot 792 & 793 will be required to lift the excavator into place.
- Excavation and trenching for the installation of a sewer main between Lots 795, 794 and 793.
    - Trench dimensions: 57 m long x 500 mm wide x 800-1,300 mm deep
    - Pipe diameter: 150 mm.
- Installation of five (5) sewer inspection openings on Lot 795, two (2) inspection openings on Lot 794 and one (1) inspection opening in the void below Lot 792 car park.
- Connection of sewer from Lot 795 and Lot 794.
- Final connection to the sewer main in Lot 792 by trenching up to retaining wall and core drilling a 150mm diameter hole below ground level through the retaining wall footing for the sewer line to be installed.
- Dismantling and removal of temporary sewer diversion for Lot 795.
- Backfilling and compaction of excavation as per AS/NZS 3500.2 Plumbing and drainage Sanitary Plumbing and Drainage Systems.
- Backfilling and compaction of the trench up to retaining wall.
- Site rehabilitation.

Water Main Installation:

- Cutting of the road asphalt along the trench alignments and removal of top layer of asphalt
- Hydro-excavation and trenching for PVC water main installation within the road corridor outside of Lot 711, 795 and connecting into Lot 794

    - Trench dimensions: 30 m long x 450 mm wide x 900 mm deep.
    - Pipe diameter: 150 mm
- Hydro-excavation and trenching for PVC water main installation within the road corridor outside of Lot 721 and connecting into Lot 794
    - This water main will ensure the redeveloped Black Bear (Lot 794) meets the fire requirements of needing two separate lines, with this one having the greater hydraulic pressure needed.
    - Trench dimensions: 7 m long x 450 mm wide x 900 mm deep.
    - Pipe diameter: 150 mm
- Installation of two (2) water main valves and one (1) flushing hydrant within the road corridor outside of Lot 974.
- Isolation and draining of both the high pressure and gravity water mains
- Cutting of the high pressure and gravity mains for tee installation to connect the two new mains to water supply.
- Restoring water connection and testing of the new main installation.
- Backfilling of trenches with sand, compacted crushed rock and reinstatement of pavement with concrete.
- Site rehabilitation including reinstatement of asphalt road pavement.

Post-construction activities will comprise:

- Rehabilitation in accordance with the Rehabilitation Guidelines
- Reinstatement of the asphalt on the road surface
- Demobilisation of plant and machinery
- Site clean-up.

3.2 Construction Corridor and Disturbance Footprint

The estimated disturbance is approximately 300 m^2.

4 Construction Management Details

4.1 Construction Timing

Construction is anticipated to take approximately 2 weeks at the start of October 2024.

4.2 Site Access

Water services works will be accessed via Diggings Terrace and Bobuck Lane. All works are contained within this road corridor. During the works, the road must be closed. When the trench must remain open overnight, steel road plates will be placed over the excavation and fauna egress provided.

To access this site with an excavator, it must be craned onto the site via the low-level carpark on Lot 792. Full or partial road closures may be required during this time and will be actively managed. Once established onsite, other materials will also be brought onto site via the carpark on Lot 792. Access for workers will be on foot via the footpath on Lot 818.

4.3 Vehicles, Machinery and Equipment

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

- Light vehicles
- Recycler Vacuum Truck
- 1.6T Excavator
- Small crane
- Tipper Truck
- Delivery Trucks.

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 Stockpiles and Material Storage Areas

4.5.1 Site Compound

No site compound will be required. Amenities are available at Valley Terminal for staff if required.

4.5.2 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 Error! Reference source not found..

All stockpiles will be managed in accordance with the environmental controls in **Section 6.7.**

4.5.3 Material Storage Areas

Materials will be stored offsite at Thredbo's main stockpile sites at Friday Flat and transported to site on an ad-hoc basis.

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. • 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.

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 Personnel Contact Details

Company / Agency	Role / Reason	Contact
Department of Planning and Environment (DPE) (Alpine Resorts Team)	Development approval and compliance	(02) 6456 1733
National Parks and Wildlife Service (NPWS)	Flora, fauna, archaeology	(02) 6450 5600
Environment Protection Agency (EPA)	Water, noise, air pollution and regulation	131 555
NSW Soil Conservation Service	Soil erosion and sediment control	02 9842 8300
Thredbo Medical Centre	General medical attention	(02) 6457 6254
Fire and Rescue Thredbo, NSW	Incident / emergency	(02) 6457 6144
NSW Police	In case of fire, medical or police emergency	000
NSW Fire and Rescue		
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 DPIE and NPWS will be undertaken.

5.2.4 Notification Protocols

A summary of the key notification protocols is provided in **Table 3.** Notification requirements will be updated as required.

Table 3: 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 culturally significant site, relic or artefact.	Immediately upon discovery of any archaeological/culturally significant site or relic that are encountered. NSW Police to also be notified immediately upon discovery of human remains.	Site Project Manager
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. 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 7.1**. 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.

6.2 Site Establishment

- Establishment of site boundary with temporary fencing, rope or flagging to clearly delineate the construction corridor.
- Erection of site signage and pedestrian/traffic controls.
- Installation of erosion and sediment controls as required.

6.3 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.

6.4 Material Sourcing

Authorisation from NPWS is to be sought where imported gravel or fill material is required, unless the material is sourced from the following NPWS approved locations:

- McMahons Earthmoving quarry, located on Alpine Way, Crackenback NSW; or
- Kraft Earthmoving / Snowy Mountains Sand and Gravel quarry located on Alpine Way, Jindabyne NSW.

6.5 Erosion and Sediment Controls

Erosion and sediment controls to be installed on-site as required and determined by the construction contractor.

Table 4: Erosion and Sediment Controls

Control	Activity	Purpose	Timing	Location	Standard Drawing Reference[1]
Sediment fence	Excavations; Stockpiling for Services installation.	To prevent sediment run-off by filtering medium to coarse-grained sediment from runoff	Install prior to, or in conjunction with earthworks. Retain in place until exposed areas of soil are stabilised.	Downslope side of any excavations; wetter areas; downslope of earth stockpiles; need to be placed following contours where possible	Sediment fence (SD 6-8)
Straw bale filter fencing[2]	Excavations for services installation.	To prevent sediment run-off (suitable for low flows of water)	Install prior to, or in conjunction with earthworks. Retain in place until exposed areas of soil are stabilised.	Drier areas of excavation, across or at the toe of slope	Straw bale filter (SD 6-7)
Straw bales[2]	Cross-slope excavations, trenching for services installation.	Divert water around and away from excavation works	Install prior to, or in conjunction with earthworks. Retain in place until exposed areas of soil are stabilised.	To be installed on the uphill side of excavations running cross-slope (where required).	Straw bale filter (SD 6-7)
Trench stops	Trenching for services installation	Reduce erosion and flow velocity	During trenching	Trench stops, such as sandbags may be used as plugs or trench stops across the trench invert.	-
Inlet filter/filter socks	Works nearby existing stormwater inlets and roadside drains. Installation of services / connection into existing services infrastructure	Sediment trap around or adjacent to stormwater inlets; and can be used to form check dam sediment traps in drains	Prior to excavation works within vicinity of inlets.	Around stormwater inlets. At regular intervals along the roadside drain.	Mesh and gravel inlet filter (SD 6-11) Geotextile inlet filter (SD 6-12)
Coir logs / fibre rolls	Installation of services within road corridor.	Divert water around and away from excavation works	During excavation, around open excavations	Around stormwater inlets, cross-slope excavations – To be installed on the uphill side of excavations running cross-slope, where required.	Fibre Rolls (Catchments & Creeks Pty Ltd 2010).

Temporary filter pond	In the event water needs to be pumped out of an excavation.	To capture sediment and pollutants and prevent them leaving the filter pond	During excavation works, in the event water needs to be pumped out.	Where required, on flat area away from drainage lines/watercourses and native vegetation.	Refer to best practice guidelines such as Blue Book and IECA. Control installation notes provided below.

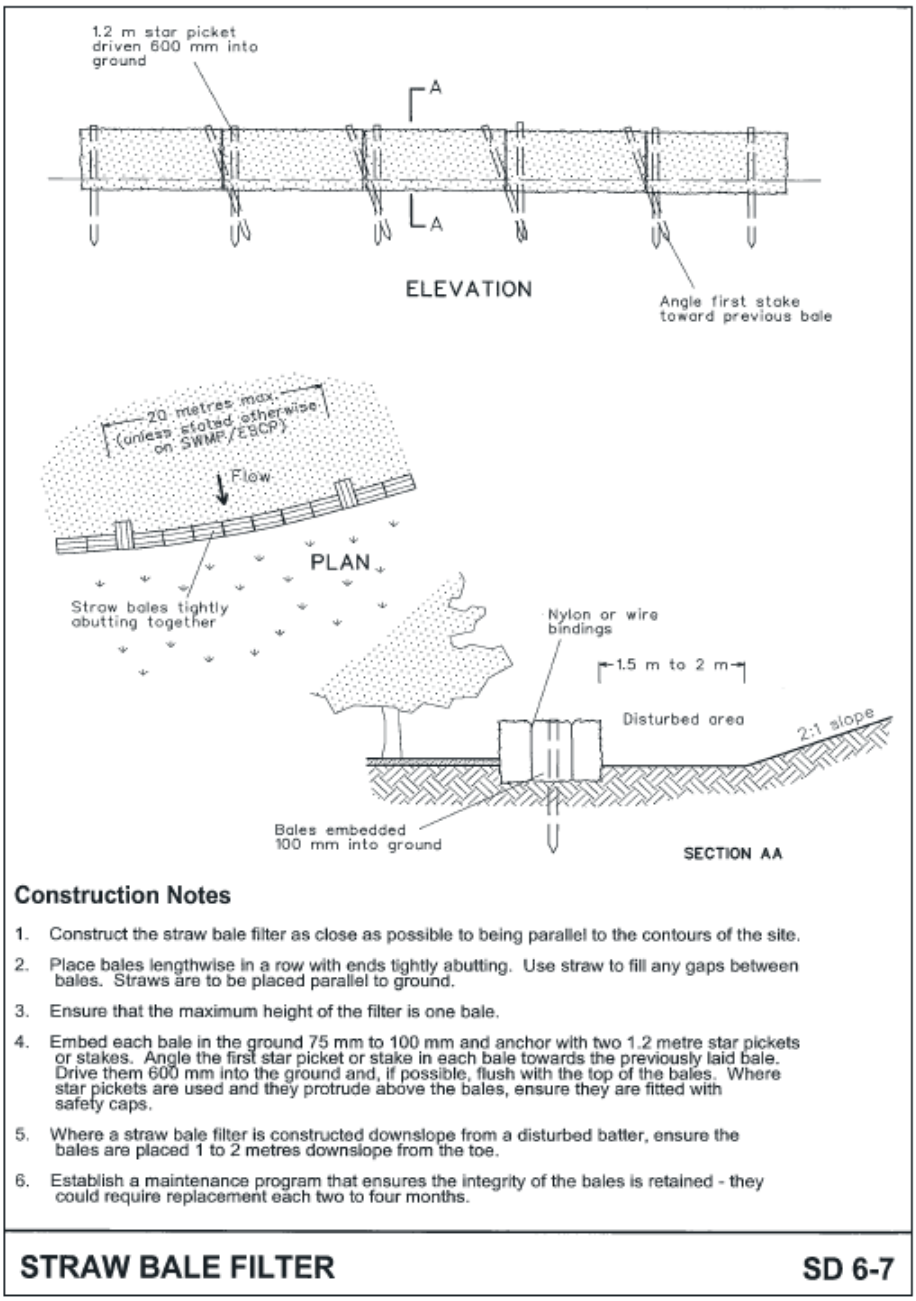


Figure 1: Straw Bale Filter Construction Notes (Landcom 2004)

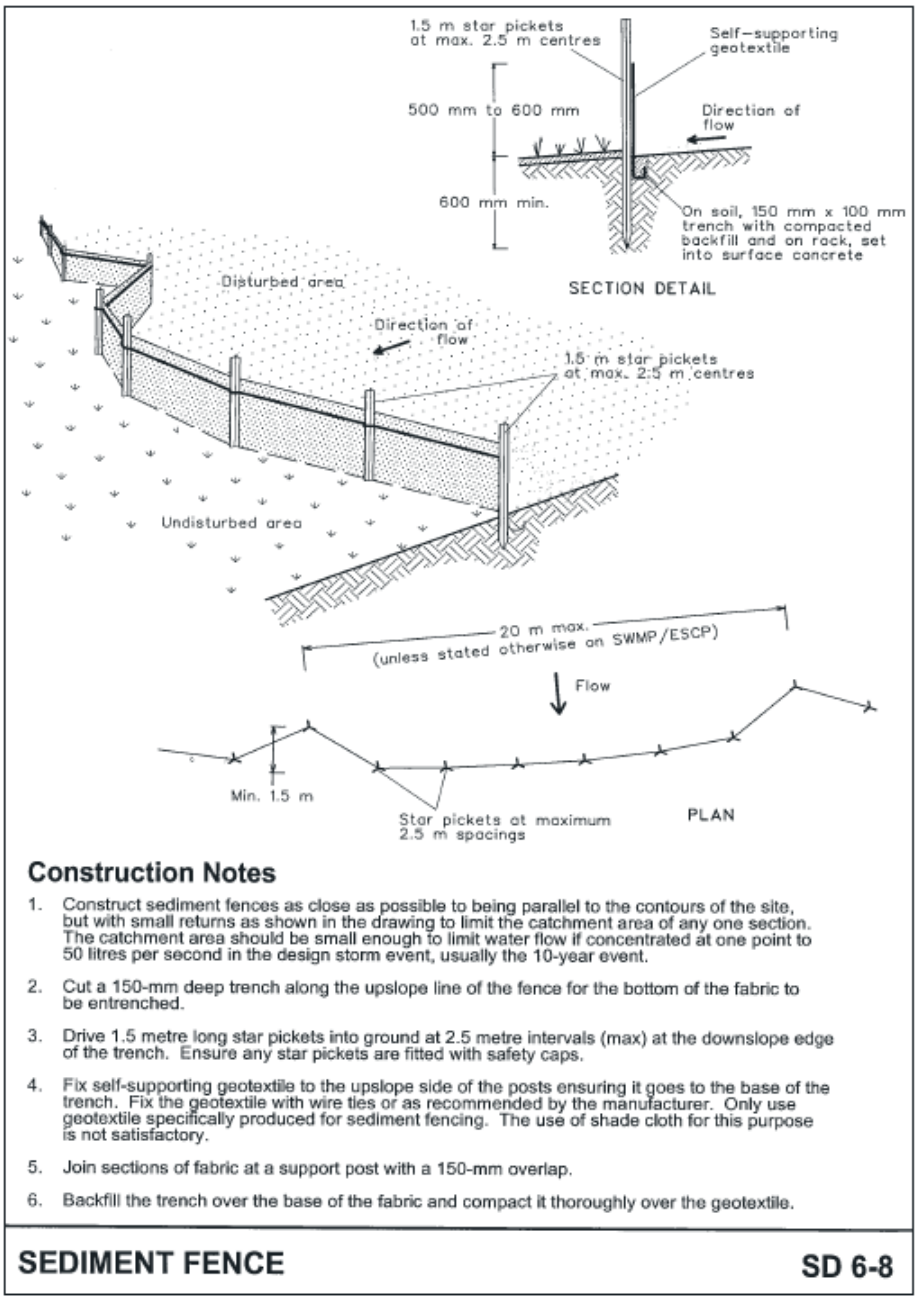


Figure 2: Sediment Fence Construction Notes (Landcom 2004)

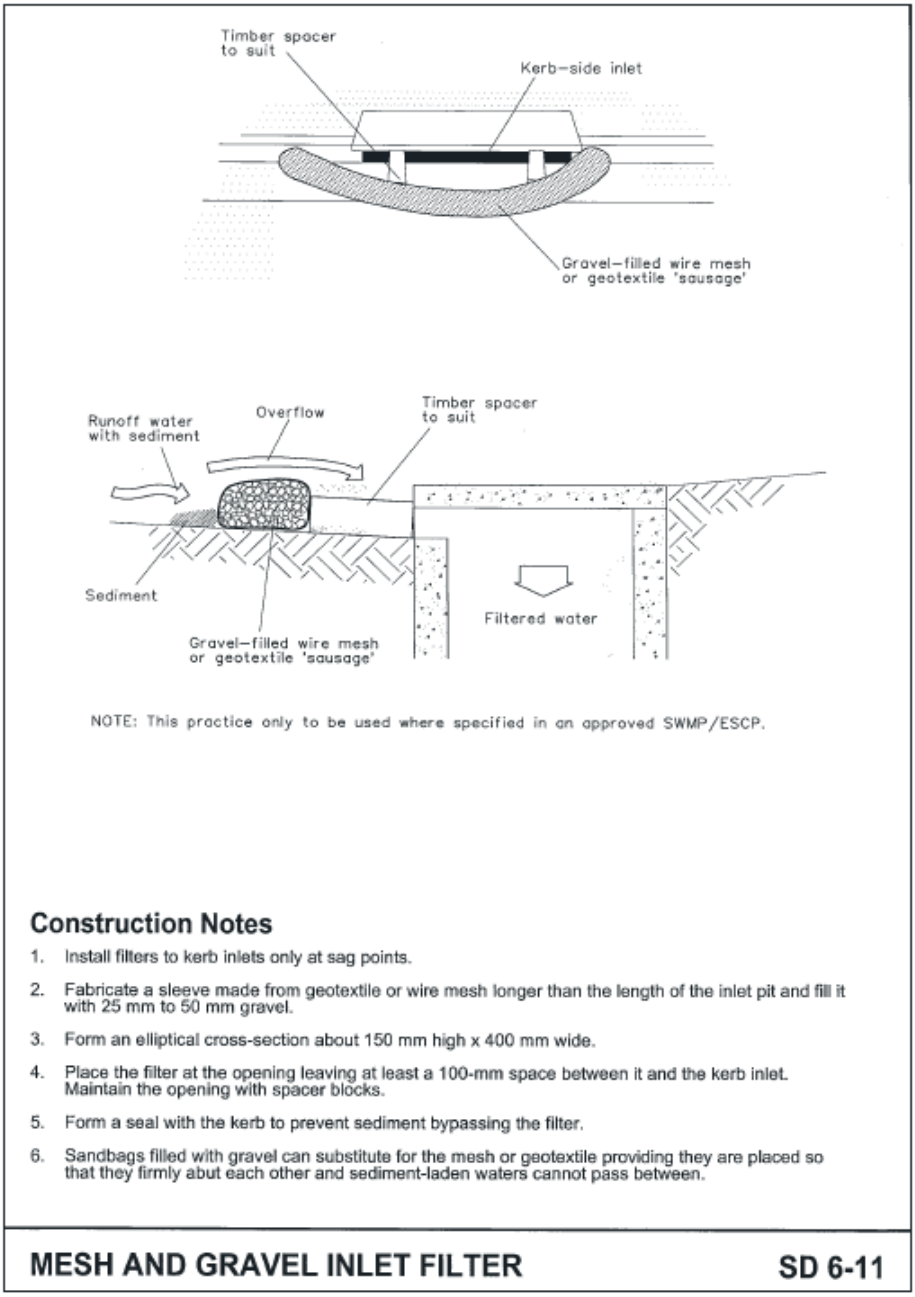


Figure 3: Inlet Filter Construction Notes (Landcom 2004)

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

Coir Logs

Construction notes:

1) Secure logs by driving the stakes between the outer netting and the core material each side of the logs and secured into the ground (not through centre of log).
2) Ensure spacing of stakes does not exceed an interval of 1 m.
3) Once driven into ground, the stakes should sit at least two-thirds below the ground and one-third above.

Trench breakers

Construction notes:

- Trench breakers may comprise soil or straw bales (or a combination).
- The recommended spacing of trench breakers to be determined on-site according to the slope and potential for subsurface flow, refer to table above for recommended spacing.

Temporary geofabric filter pond

Construction notes:

1) Where practicable, locate the filter dam at least 50 m from the edge of a waterbody.
2) Suitably clear and prepare the surface where the filter dam will be installed.
3) Arrange straw bales to form an enclosure and securely anchor each bale with at least one (1) star picket or stake.
4) Securely attach the filter fabric to the straw bales and reinforce with stakes. If more than one sheet of fabric is used, then overlap within a minimum of 600 mm at all joints.

Figure 4: Example of Geofabric Filter Pond

6.6 Trenching and Excavation

- Schedule trenching works for periods when rainfall is low.
- Minimise the area of soil disturbed and exposed to erosion. Ensure trench widths and depths are the minimum necessary, including installation notes and examples.
- Divert up-slope clean water away from excavations.
- Conserve topsoil for backfilling and rehabilitation works.
- Progressively rehabilitate disturbed land immediately post construction.
- Maintain erosion and sediment controls during works until the site has been stabilised
- When excavating, place excavation soil on upslope of trench to divert water from away from the trench line.
- Excavation soil is not to be placed on roads, in areas of concentrated runoff.
- Limit the time trenches are left open and avoid trenching when the risk of adverse weather is high.
- Ensure excavation depths and widths are the minimum necessary.
- Leave excavations open for the minimum practical time.
- Where excavations are to be left open overnight, provision shall be made so that any fauna entering the excavations can escape.
- Excavations are to be properly guarded and protected to prevent them from being dangerous.
- Imported fill material shall only be obtained from authorised locations.

6.7 Soil and Stockpile Management

- All stockpaailes 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.

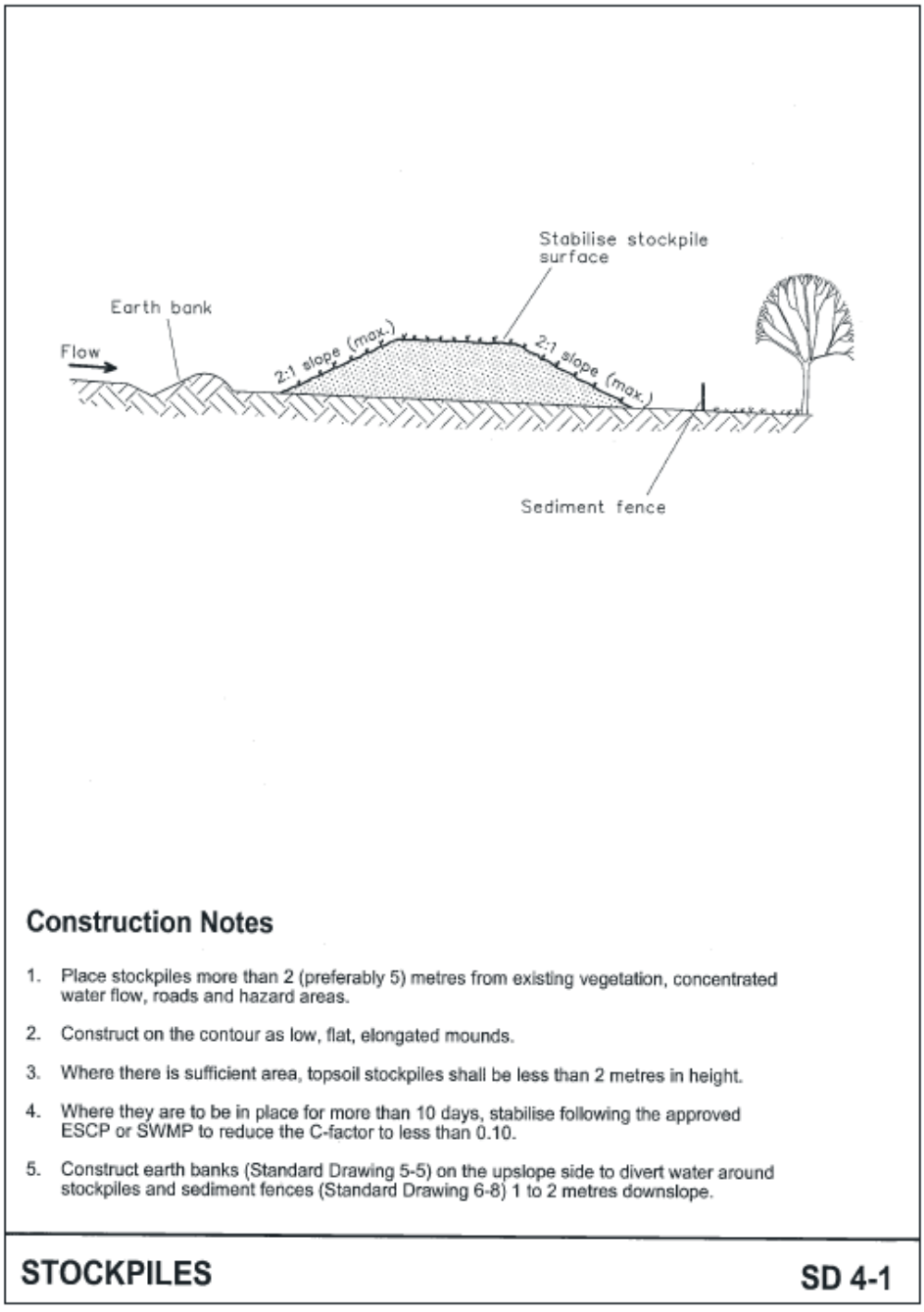


Figure 5: Stockpile Management (Landcom 2004)

6.8 Vegetation and Habitat Management

- Construction works are to be confirmed to the construction corridor.
- All vegetation trimming required for construction access must be conducted using hand-held equipment. All limbs to be removed from site.
- All disturbance should be kept to the minimum required to achieve the proposal.
- If trenches and excavations are to be left open overnight, fauna escape ramps should be installed to enable fauna to escape. Open trenches and excavations should be inspected regularly for the presence of any fauna that may have fallen in.

6.9 Rehabilitation

- All exposed areas shall be progressively stabilised/rehabilitated as soon as possible in accordance with the *Rehabilitation Guidelines for the Resort Areas of Kosciuszko National Park* (DECC 2007)
- Only weed-free or natural thatch/litter should be used in sediment control activities.
- All ESCs will remain in place until all exposed areas of soil are stabilised and/or revegetated.

6.10 Hygiene Protocols

- Project machinery and vehicles to arrive/depart from KNP and the Project site in a clean condition, free of mud and vegetative propagules and pathogens.
- All vehicles and machinery entering Thredbo must adhere to the Standard Operating Procedure: Use and Maintenance of Wash Down Bay which requires all vehicles and machinery to utilise the weed wash-down bay prior to entering site to ensure no new weed seeds are introduced to the site and KNP.
- Machinery to be restricted to the designated disturbed areas within the construction corridor.
- Local mulch will be weed-free in accordance with the requirements of the Rehabilitation Guidelines for the Resort Areas of Kosciuszko National Park (NPWS 2007).

6.11 Air Quality

- Dust generation will be managed through typical dust suppression that will include covering stockpiled spoil, minimising ground disturbance and covering loads.
- Plant and equipment to be maintained and operated in an efficient manner to reduce air pollution.
- Vehicles are to adhere to speed limits to minimise dust general and potential spill of hauled materials.

6.12 Noise and Vibration

- Awareness training and information will be provided to project personnel in relation to minimising noise pollution as much as practicable when in close proximity of sensitive receivers.
- Selection of the most appropriate plant and equipment to minimise noise generation.
- Appropriate noise management strategies will be implemented for construction works and operation of plant in accordance with the Australian Standard AS 2436-2010 *Guide to noise and vibration control on construction, demolition and maintenance sites.*
- Construction works will be undertaken during standard work hours.

- Regular checks are to be undertaken to ensure all equipment and vehicles are in good working order and are operated correctly.
- All plant will be maintained in accordance with the manufacturer's requirements.

6.13 Fuels, Chemicals and Hazardous Substances

- Environmental spill kits containing suitable spill response materials shall be kept on site at all times. Spill kit materials shall be used in the event of a spill. Any oil spilt during the oil transfer or at other times shall be immediately contained and cleaned up.
- In the event on an on-site spill, construction staff will follow KT's Construction Site Incident and Emergency Procedures Thredbo Village.
- Hazardous substances, toxic materials or dangerous goods must not be stored or processed on-site at any time without prior approval from the DPE Secretary or nominee.
- Fuel and chemicals will be appropriately stored and handled in accordance with relevant Australian Standards and Codes of Practice.
- Appropriate controls will be implemented when refuelling Project vehicles and machinery.

6.14 Traffic and Access

- Traffic and pedestrians will need to be actively controlled and managed for the duration of the works.
- The flow of traffic along Diggings Terrace will be partially impacted as the works are located within the road corridor.
- Vehicle traffic and pedestrians will be actively controlled and managed by appropriate personnel for the duration of the works to mitigate potential delays and ensure public safety. The two-way traffic will need to be diverted to one lane of traffic.
- A construction corridor will be erected prior to commencement of works to ensure the public are excluded from the active works area.
- Water services works will be accessed via Diggings Terrace and Bobuck Lane. All works are contained within this road corridor. During the works, the road must be closed.

6.15 Waste Management

- Excess spoil from excavations will be taken off-site and placed within the resort's existing stockpile area located at the carpark adjacent to the Thredbo Waste Transfer Station for re-use within the resort.
- All waste will be separated into waste stream and contained within appropriate receptacles and disposed in accordance with EPA guidelines.
- Any construction waste that cannot be re-used within the resort will be transported off-site by a licence contractor and disposed of at a licenced waste facility such as:
    - Jindabyne Landfill, 6013 Kosciuszko Road, Jindabyne NSW
    - Cooma Landfill, 8448 Monaro Highway, Cooma NSW.

6.16 Aboriginal Cultural Heritage

6.16.1 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.

6.17 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

The construction contractor will conduct monitoring during all project phases (pre-construction, during construction and post-construction). This monitoring will occur during daily site meetings and inspections for each day of the Project.

7.1 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 **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.

7.2 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 References

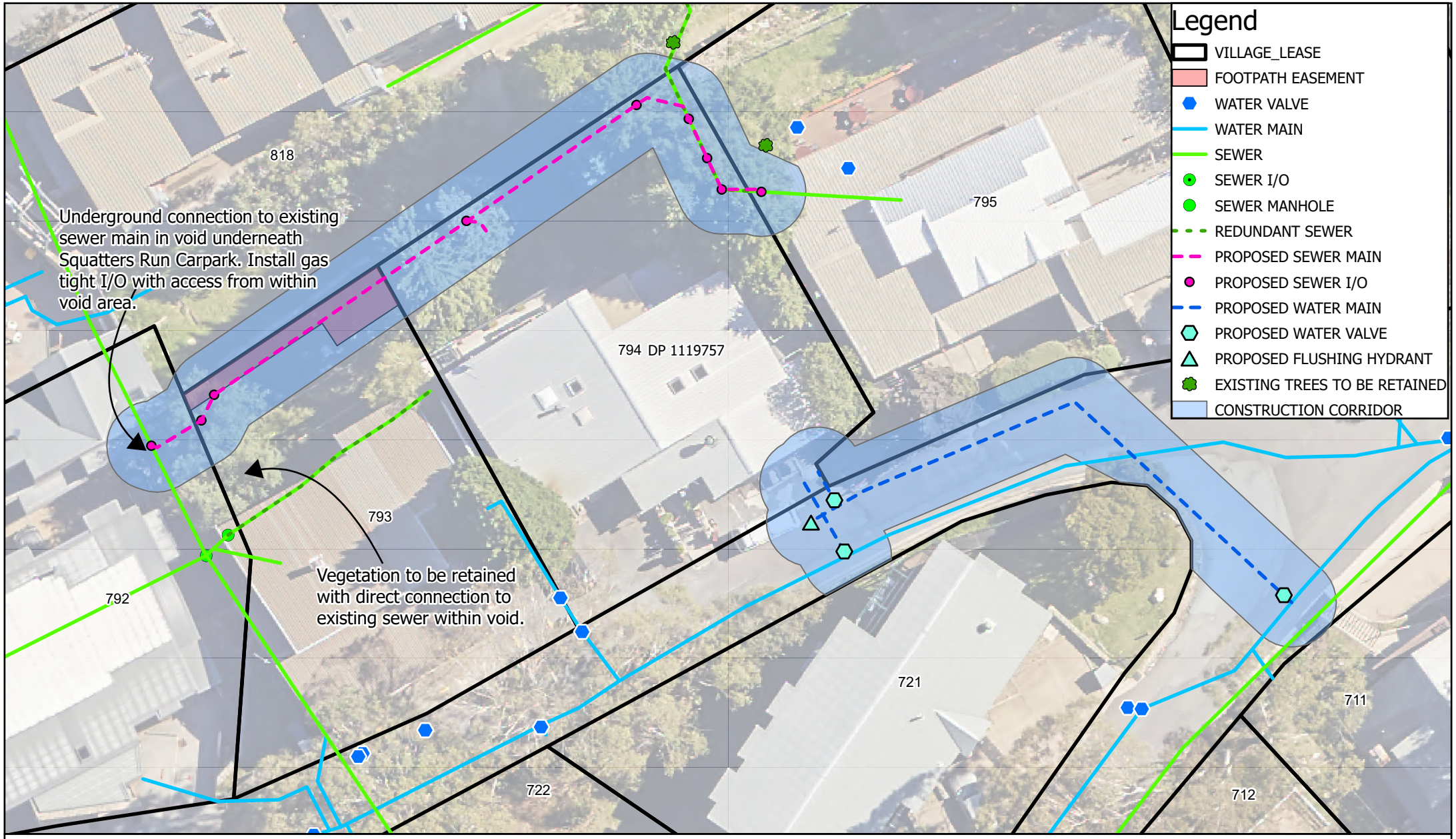
Department of Environment and Climate Change (DECC) 2007, Rehabilitation Guidelines for the Resort Areas of Kosciuszko National Park, NSW Government.

Department of Environment and Climate Change (DECC) 2009, Interim Construction Noise Guideline, July 2009, https://www.epa.nsw.gov.au/-/media/epa/corporate-site/resources/noise/09265cng.pdf?la=en&hash=EF4576FD79DBB25D5AC22DFA1A883A2BADA1F77B

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.

9 Appendices

Appendix A Plans



Scale: 1:339

0 2.5 5 10 15 20 Meters

Map Projection: Universal Transverse Mercator
Horizontal Datum: GDA 2020
Grid: GDA 2020 MGA Zone 55

N

THREDBO

SITE PLAN

Project: GIS2418 - Blackbear Sewer & Water Supply Upgrades

Revision: H

Date: 07/03/2025

Produced By: KOS

Appendix B Environmental Schedules

THREDBO ENVIRONMENTAL SERVICES

Record of complaint

Sheet _____of_____

Project: _____ Date / Time: _____

Received by: _____ Reference Number: _____

Complainant details:	Witness details:

Nature of complaint:

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..... Complainant sign:

Action taken:

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Kosciuszko Thredbo Pty Ltd

Environmental Incident Reporting Form

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: …… …… …… …… ……
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)

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 …… …… …… …… …… …… …… ……

Environmental Incident Reporting Form

Corrective Actions

Detail corrective clean up action taken

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Disposal

Detail disposal method/plans and location

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Recommended follow up and preventative actions

Detail recommendations

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……

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Persons present at Incident

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

……

……

Declaration

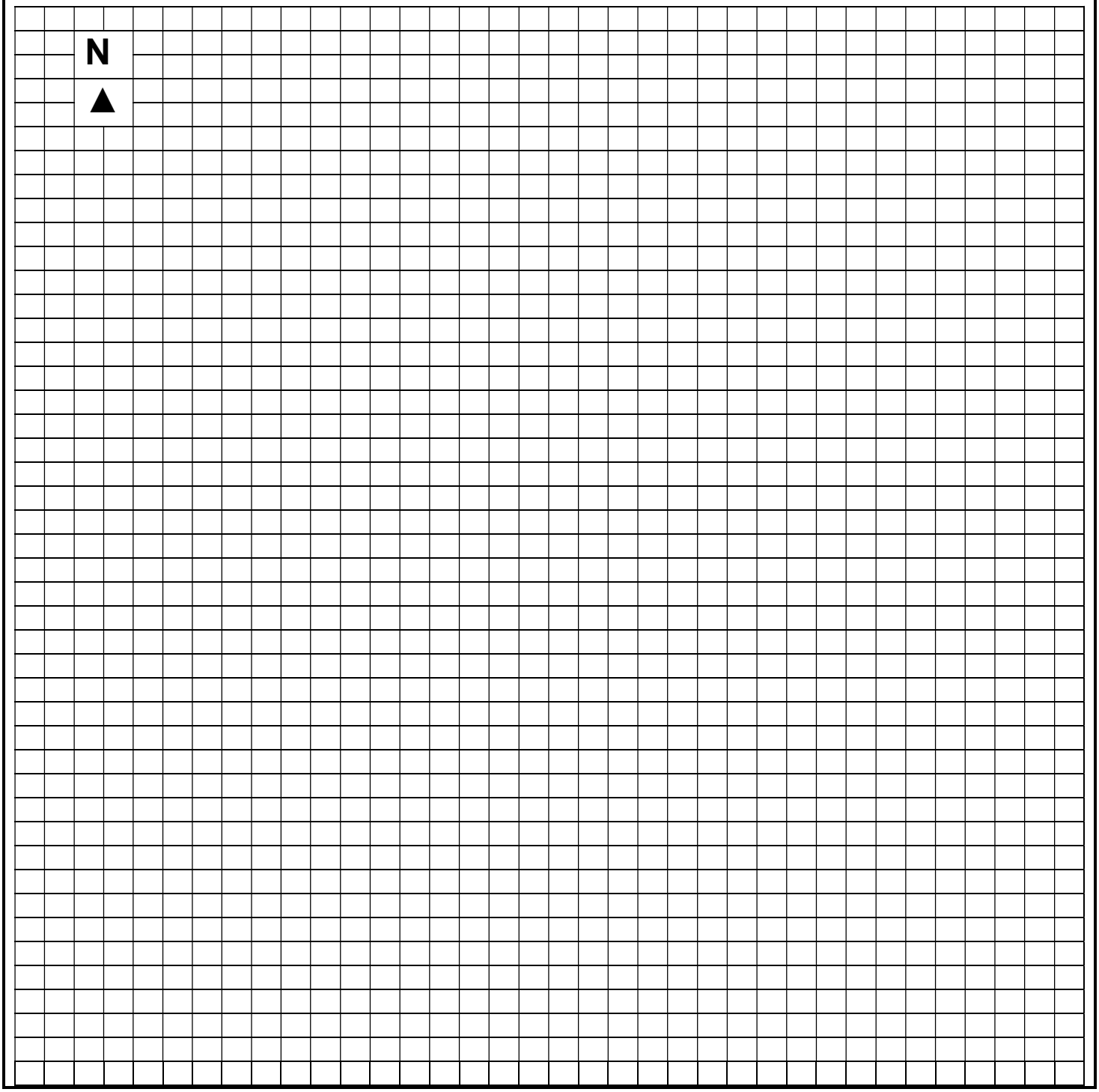
The information and answers given above are true in every detail and no information has been withheld.

Departmental Supervisors Name	
Departmental Supervisors signature	*Date*

Departmental Managers Name	
Departmental Managers signature	*Date*

Environmental Incident Reporting Form

Diagram: (do not scale)



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