

South Branch, Regional Operations Review of Environmental Factors Sign off Sheet

Name of Proposal: Lower Thredbo Valley Track, Bullocks Flat to Thredbo River Picnic Area	Activity Application No:	
Patk or Reserve Name: Kosciuszko National Park	Proponent: (Cross out option that does not apply)	Internal
Region: Southern Ranges	Area: Alpine- Queanbeyan	
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	Signature	Date
REF seen and endorsed by Area Manager –	Fren	15.10.15
Anthony Evans	\sim	
REF seen and endorsed by Regional Manager –	Shaller -	15.10.15
Mick Pettitt		
Date registered by Team Leader, South East Region Regional Operations PO Box 2115, Queenbeyan NSW 2620 Fax: 02 62297001	· · ·	
Date of Determination, Regional Manager, South East Region Regional Operations	Mee) 5/14	2015,
Determination/approval received,		
Regional Manager	3-11-15	

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REVIEW OF ENVIRONMENTAL FACTORS

DETERMINATION REPORT

DOC 15/410452	
Lower Thredbo Multi-use Track - Bullocks Flat to	
Thredbo River Picnic Area	
OEH Southern Ranges Region	
Kosciuszko National Park	
Southern Ranges Region/ Alpine Queanbeyan Area	
15 October 2015	

Criteria	Yes/No	Comments
Is the activity described satisfactorily	Yes	The NSW Office of Environment and Heritage (OEH) is proposing to extend the recently opened (January 2015) shared-use Thredbo Valley Track within Kosciuszko National Park. The new section of track will be known as the Lower Thredbo Valley Track (LTVT).
		The proposed route starts at the current end point at Bullocks Flat and extends to the Thredbo River Picnic Area within Kosciusko National Park (KNP). The track will be a multi-use trail (pedestrian and cycle) track similar to existing stages.
		From the starting point at Bullocks Hut the shared-use track will immediately cross to the northern side of the Thredbo River using the pedestrian access on the Skitube Bridge. It will run roughly adjacent to the Thredbo River for approximately 20 kilometres and end either at the Thredbo River Picnic Area or at the Gaden Trout Hatchery.
		Very short sections of the track would be within approximately 10–20 metres of the Thredbo River; however, the vast majority of the track would be located at least 50–100 metres from the river, with some sections being more than 500 metres from the river.
		The Snowy River Shire Council is currently working with community stakeholders and government to seek approval and fund a bridge-crossing and trail that will link the proposed Lower Thredbo Valley Track to Jindabyne at Gaden Trout Hatchery.
		Due to the uncertainty as to whether Snowy River Shire Council will secure the funds or approvals required, this Review of Environmental Factors investigates two options at the lower end of the proposed track:
		 Option 1 – Construction of a bridge at the Gaden Trout Hatchery. Under this option an external party, likely Snowy River Shire Council, would own the

		bridge.
		• Option 2 – Track to continue past the Gaden Trout Hatchery, join the Pallaibo Track at the lowest point where it crosses Sawpit Creek and continue along th Pallaibo Track to the Thredbo River Picnic Area.
		This option will require that section of the Pallaibo Track to re-zoned from a walking track to a multi-use track in an amendment to the Kosciuszko National Park, Plan of Management.
		The preferred route is presented on Map 2 of the REF Page 5.
		Construction of the track will use a combination of approaches and materials suited to the terrain, gradient and resultant design requirements.
Background information on study area	Yes	The study area includes the Lower Thredbo Valley from Bullocks Hut to Thredbo Valley Picnic Area. The multi-u track would be constructed on the northern side of Thredbo River.
Reasons for activity	Yes	The main reason for the activity will to provide improvide visitor facilities. The original concept had a detailed feasibility study associated with the project at that time - <i>Thredbo Val Multi-use Track Feasibility study (Planning for People 200</i>). It found that there was a strong demand for mountain biling and walking in the Thredbo Valley. The feasibility study highlighted that many of the 3 million annual visitors to the Park are seeking recreation opportunities from Thredbo. particular Thredbo is the major non-winter recreating destination in the Park with more than 40000 people walking to Mt Kosciusko from Thredbo in the summer period (OI 2007).
		At that time the Minister for the Environment released to Centenary fund policy statement on the use of a proportion KNP entry fees as part of the centenary celebrations for KN The policy proposed to re-invest visitor entry fees into walk tracks and campgrounds and tourism facilities amongst oth commitments. The multi-use track from Thredbo w specifically identified as a key project as part of the centena funding initiative.
		Since then the first stage of track was completed and h been operational since January 2015. It has shown stro usage numbers and wide community support.
Is there any reference to a timeframe for the construction & operation of the activity?	No	Page 26 states that the works are expected to proce subject to approvals over three years period beginning 2016 and finishing in 2019.
Alternative	Yes	Alternate options for project are reviewed in section 4.1

	oposals stification of	Yes	 the document. Different design specifications are canvassed on the construction standards, width of the track and difficulty rating. Advantages and disadvantages of each option are considered. The preferred option is Option 3 600 - 1200mm handbenched track, IMBA blue square grade (including vegetation corridor clearance of 1500 - 1800mm). The analysis lists the Advantages as: Links Thredbo to Jindabyne Low capital cost compared to Option 2 (green circle) Accessible for hikers, runners, moderate and advanced cyclists Will attract significant use by cyclists due to the increased challenge of the blue square grade Exclusion of beginner cyclists reduces the risk of injury/rescue from the remote valley A higher graded track will slow traffic, thus reduce overall risk of collision and injury Disadvantages as: Accessibility challenges for construction and maintenance Beginner cyclists will not be at a suitable level to access the track
	otion		Adequate justification is provided on why the preferred route was selected as above.
RE mo	monitoring entioned in the EF? Is further onitoring propriate?	Yes	The monitoring programs are referred to in the REF mainly as part of the ongoing <i>Track Management Plan (TMP)</i> . This is to give greater detail for the ongoing operation phase of the project. This would include the controls and methods for the ongoing maintenance of the track and the monitoring that is to take place.

ls the activity permissible under: National Parks and Wildlife Act 1974	Yes/N o Yes	Comment A multi-use trail is permissible use in a National Park under the Act. It is providing for recreational facilities which is in accordance with the provisions and objectives of the Act
EP&A Act, eg SEPPs, REP, LEP (has relevant section of the LEP been included?)	Yes	Zoned E1 National Park in Snowy River LEP 2013. The Department of Planning and Environment was consulted as far SEPP (Kosciusko National Park - Alpine Resorts) 2007 is concerned.
POEO Act		Given the distance away from the river the project is not considered to require approval under POEO Act.
Heritage Act	Yes	One heritage listed items or features of European heritage is listed in the study area- Collins Hut. Recommended safeguards for this item in the REF include that interpretive signage should be installed at 'Collins Hut' and NPWS personnel should complete a risk assessment and implement any appropriate measures to reduce risks of the item

		collapsing on visitors.
Commonwealth legislation: Environmental Protection and Biodiversity Conservation Act Other	Yes	No significant impact on matters covered by the EPBC Act, including threatened species
NPWS policies such as Plans of Management (PoM) Any policies applying to a particular activity	Yes	The Kosciusko National Park Plan of Management (2006) gives some direction for the proposed activity. The REF summaries the provisions of the PoM concludes that the intent of such a track is supported in numerous sections of the Plan of Management. This view is supported. If Option 2 is pursued as preferred route it will require that section of the Pallaibo Track to be re-zoned from a walking track to a multi-use track. The potential re-zoning of the section of the Pallaibo Track would need to be included in an amendment to the Kosciuszko National Park Plan of Management. The conditions of approval are structured to reflect this position.
Have all other approvals from OEH been obtained (or have in-principle support)?	Yes	None outstanding. If the Pallaibo Track option is pursued an Aboriginal Heritage Impact Permit (AHIP) will need to be obtained for the works.

CONSULTATION

Criteria	Yes/	Comments
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	No	
Did the proponent consult	Yes	There has been extensive consultation with the project
with the groups listed in		to date as outlined in Section 3 of the REF.
section 2.6 of the		
Proponents' Guidelines?		Initial consultation has also occurred with Aboriginal
		communities in accordance with the OEH Consultation
		guidelines.
Have they included detail	Yes	Details are included in the Report of Submissions
of who was consulted,		Proposed Lower Thredbo Valley Track NPWS October
how, when and the		2015 including submissions received and date, issues
results?		raised and responses.
Is there any evidence of	Yes	The Alpine-Queanbeyan Area received 18 submissions
incorporating the results	103	in total. Of these;
of consultation into the		 two made objections to the proposal
REF/details of the		 14* supported the project,
proposed activity?		
proposed activity?		• two submissions that did not obviously state
		whether they were in support or against the
		proposal. However these submissions provided
		comments about the proposed safeguards and
		other matters relevant to the proposal.
		*one of the above submissions made it clear that they
		supported the project but had issues with the REF and

		the proposed safeguards.
		These matters are addressed in the <i>Report</i> of <i>Submission Proposed Lower Thredbo Valley Track</i> <i>NPWS October 2015.</i> A response is provided to all issues and project design revised where appropriate.
Did the proponent place the Draft REF on public exhibition?	Yes	Yes the region made the decision to publicly display report.
If so, have they included evidence of consideration of submissions?		The REF and background documents were placed on public exhibition from 3rd September 2015 to 3rd October 2015 at OEH in the region and public notices put in the local newspaper. It was also displayed on the OEH website for that period.

EXISTING ENVIRONMENT

Criteria	Yes/No	Comments
Has the REF covered all aspects of the environment listed in the REF Format?	Yes	The REF considered all listed aspects of the existing environment. It is considered to have fulfilled the requirement to addresses to the fullest extent possible, all of the factors listed in Clause 228 of the <i>Environmental Planning and Assessment Regulation</i> 2000.
		The Threatened Species Evaluation Appendix 5 by <i>Envirokey S. Sass August 2015</i> attached to the REF adequately addresses the existing EEC vegetation and biodiversity issues. A Part 5A assessment under the EP&A Act was conducted on threatened flora and threatened fauna species, with the conclusion that a significant impact is not likely to occur.
		The Aboriginal Cultural Heritage Study Lower Thredbo Valley Shared Path: Bullocks Flat to Curiosity Rocks, Snowy Mountains, Sue Feary and Gerard Niemoeller August 2015 attached to the REF is considered to meet the OEH guidelines. An AHIMS search for Aboriginal site records was been completed. The report provides adequate details on survey methodology, or map survey locations. An approach to avoid sites is supported.
Are all aspects identified adequately described with supporting information where appropriate?	Yes	Adequate documentation is provided to support the proposal

DESCRIBE THE IMPACTS

Criteria	Yes/	Comments
	No	
Has each possible impact listed	Yes	The critical impacts in the REF discussed are
in the REF Format been		potential impacts on water quality clearing of
addressed (listed as either		native vegetation, weed spread and potential

applicable or n/a)		impacts on flora and fauna.
		The total estimated vegetation disturbance is 4.1 ha for the proposed route. This figure is considered to be an over estimate to account for any additional clearing that may occur to avoid mature trees and other natural obstacles.
		After the project is complete, NPWS will calculate the final area of the impacted zone that the track passes through. NPWS is to implement rehabilitation measures at alternative locations within KNP to achieve a maintain and improve outcome.
		Water quality and controlling runoff is a major issue. An Environmental Management Plan is to be developed and reviewed by NPWS prior to works. This is to include an Erosion and Sediment Control Plan (ESCP). Sediment controls, including the sediment filters / sediment retention traps are to be installed consistent with Section 6.3 of "Managing Urban Stormwater: Soils and Construction" (4th Edition Landcom, 2004, aka the Blue Book). This will ensure that there is no escape of turbid plumes into the adjacent aquatic environment.
		These are outcomes are reflected in the conditions of the determination.
Are the possible cultural heritage impacts adequately described?	Yes	The Aboriginal Cultural heritage survey and assessment report adequately describes the possible cultural heritage impacts of the project.
		The Aboriginal Heritage Unit - South East has reviewed the REF and identified that a number of actions are required. These are included in Schedule 1 Conditions of Approval.
Are the possible flora and fauna impacts adequately described?	Yes	The Threatened Species Evaluation Appendix 5 by Envirokey S. Sass August 2015 attached to the REF adequately addresses the existing EEC vegetation and biodiversity issues. A Part 5A assessment under the EP&A Act was conducted on threatened flora and threatened fauna species, with the conclusion that a significant impact is not likely to occur.
		The Ecosystem and Threatened Species Section - South East has reviewed the REF and provided the following comments:
		OEH considers the flora and fauna assessment undertaken for the project to be adequate.
		An additional comments is provided that:

		A pre-clearance survey for works be undertaken for the Pink Robin Petroica rodinogaster during the nesting season between November and January, with particular focus at the two localities where birds were recorded during the REF surveys. Any nests found in the shrub layer should be protected and no works within 100 m of the nest be undertaken until after young fledge. Likewise, if the nests of Olive Whistlers are located during pre-clearance surveys in the shrub layer, no works should be conducted within 100 m of the nest until young have fledged.
		This is reflected in attached conditions of consent that <i>A pre-clearance survey will occur to</i> <i>identify Pterostylis oreophila, Discaria nitida,</i> <i>Leucochrysum albicans var. tricolor and nests of</i> <i>Olive Whistlers and Pink Robins. The track</i> <i>would be realigned to avoid any species that is</i> <i>located. The realigned area is to be contained</i> <i>within the corridor that was assessed during</i> <i>previous field surveys.</i>
		This survey has been organised for 24 November 2015 by threatened species staff in this regard.
Does REF describe how possible likely impacts were determined?	Yes	The documentation is adequate.
Does REF address the cumulative affect of all likely impacts?	Yes	The REF concludes that this activity could have low/medium impacts.
		The potential impacts of the proposal identified within the REF can be mitigated through appropriate safeguards to reduce these to acceptable levels.
Does REF address any potentially adverse impacts in sensitive locations?	Yes	The REF identifies that within the study area vegetation communities of particular significance include bogs and EEC vegetation communities.
		The final track routing will avoid wet areas, environmentally sensitive areas, and mature trees.
		The Thredbo River has a high natural water quality which provides habitat for a range of aquatic species including platypus (<i>Ornithorhynchus anatinus</i>), water-rats (<i>Hydromys chrysogaster</i>) and several species of freshwater crayfish and native and introduced fish (Trout). The route alignment and the REF is conditioned such that the activity avoids impacting on the river both at construction and

operational	stage.	An	EMP	is	required	to
demonstrate	e how th	s is t	o occu	r.		

ANALYSIS OF THE NATURE OF THE POTENTIAL IMPACTS

Criteria	Comments
What is the confidence in predicting impacts?	This REF concludes that the proposed activity will have a moderate but not significant impact on the environment if the recommendations and mitigation measures are implemented as documented in this REF.
	Table 11 summarises the extent of impacts of the activity. There are low/medium level impacts on the biological, physical and cultural values of the study area. The major potential impacts of the activity are from soil and vegetation disturbance during construction. There are also likely to be post construction impacts from weeds and feral animals however these can be reduced to low impacts with the proposed management and mitigating measures. These are to be addressed through the EMP.
How resilient is the environment to cope with the impacts?	The natural heritage environment has a medium to high resilient level to cope with the impacts
Can the impacts be reversed?	Yes, not in short term
How well can the impacts be mitigated?	The impacts can be mitigated to a medium to high level
Do the impacts comply with plans, policies?	Yes
What is the level of public concern?	Medium
Are further studies required on impacts or mitigation?	No

EVALUATE THE LIKELY SIGNIFICANCE OF POTENTIAL IMPACTS ON THE ENVIRONMENT

Criteria	Yes/	Comments
Does information in table in REF accurately reflect results of Impact tables in REF?	Yes	This REF concludes that the proposed activity will have a moderate but not significant impact on the environment if the recommendations and mitigation measures are implemented as documented in this REF. Many of the impacts of the activity can be reduced or eliminated by avoidance (i.e. moving the track around sensitive locations) and mitigated by applying high standards of environmental management and offsetting of the vegetation disturbance through rehabilitation of degraded natural areas close by. No significant impacts were assessed on threatened species or species of conservation significance.
Are the conclusions in this table appropriate?	Yes	

CONCLUSION AND RECOMMENDATIONS

The proposed REF is unlikely to have significant adverse impacts on the environment. The proposal is therefore approved subject to the following conditions.

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Miles Boak Conservation Planning Officer

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Allison Treweek Senior Team Leader, Planning Section

5/NOV/2015 Michael Saxon

Regional Manger South East Region ROG

DETERMINATION NOTICE

REF Trim ref:	DOC 15/410452
Project Name:	Lower Thredbo Multi-use Track Bullocks Flat to Thredbo River Picnic Area
Proponent:	OEH Southern Ranges Region
Reserve Name:	Kosciuszko National Park
Region/ Area:	Southern Ranges Region/ Alpine Queanbeyan Area
Date REF received:	15 October 2015

I, Michael Saxon, Regional Manager, South East Region, Regional Operations Branch, acting as a delegate of the Chief Executive of the Office of Environment and Heritage, having considered the proposed activity described above and, in accordance with Section 111 of the Environmental Planning and Assessment Act 1979, having taken into account to the fullest extent possible all matters likely to affect the environment as a result of the proposed activity, hereby determine the Review of Environmental Factors by the granting of approval subject to the conditions specified in the attached Schedule 1.

5/ NOV/2015

MICHAEL SAXON Regional Manager South East Regional Operations Group Office of Environment and Heritage

REF Trim ref:	DOC 15/410452
Project Name:	Lower Thredbo Multi-use Track Bullocks Flat to
	Thredbo River Picnic Area
Proponent:	OEH Snowy Mountains Region
Reserve Name:	Kosciusko National Park
Region/ Area:	Snowy Mountains Region/ Alpine Queanbeyan Area
Date REF received:	15 October 2015

Description of Activity

- 1. The activity shall be undertaken in accordance with the REF for a *Proposed Lower Thredbo Track Bullocks Flat to Thredbo River Picnic Area EnviroKey August 2015* unless otherwise amended in the project revised commitments contained in *Report of Submission Proposed Lower Thredbo Valley Track NPWS October 2015* and then prevailing over all is the conditions of this determination.
- 2. Approval is deferred for the section of track past the Gaden Trout Hatchery that joins the Pallaibo Track and continues along to the Thredbo River Picnic Area. Approval is deferred until that section of the track is re-zoned from a walking track to a multi-use track under the Kosciuszko National Park Plan of Management and an Aboriginal Heritage Impact Permit (AHIP) is obtained for the works.

Environmental Management Plan

3. Prior to the commencement of works, an Environment Management Plan (EMP) is to be prepared by the successful contractor consistent with the REF determination for the construction phase of the project. Separate documents can be prepared for the specific stages of construction.

The level of detail required is not to the finalised design and drawing but adequate information to describe and show the design and construction techniques to be employed for all the terrain types to crossed in that section of the track.

- 4. The REF states that a suitable Environmental Management Plan is developed and reviewed by NPWS prior to works be undertaken. This is detail the Erosion and Sediment Control Plan (ESCP) and is to include the installation of sediment controls, including the sediment filters / sediment retention traps consistent with Section 6.3 of "Managing Urban Stormwater: Soils and Construction" (4th Edition Landcom, 2004, aka the Blue Book). This is to ensure that there is no escape of turbid plumes into the adjacent aquatic environment.
- 5. The Department of Primary Industries (Fisheries) has advised their approval under the *Fisheries Management Act 1994* is required for works in the riparian zone. The detailed EMP and associated ESCP is to be submitted for DPI consideration prior to any works commencing in these sections of the track.

Track Management Plan

6. Prior to the opening of the track, a Track Management Plan (TMP) is to be prepared for the approval of the Regional Manager, Southern Ranges Region for the ongoing operation phase of the project. This would include the controls and methods for the ongoing maintenance of the track and the monitoring that is to take place.

The plan must also include proactive routine maintenance of the track, such as maintaining appropriate drainage so as to minimise erosion. Further details are required to be provided on the monitoring of the general condition of the track and that general maintenance issues will be responded to as described in Issue 23 of the Submissions report.

The Track Management Plan is to be submitted to Fisheries for comment prior to be finalised.

Aboriginal Cultural Heritage

- 7. The applicant is to comply with recommendations contained in the archaeological survey report *Lower Thredbo Valley Shared Path: Bullocks Flat to Curiosity Rocks, Snowy Mountains Region NSW* Sue Feary and Gerard Niemoeller August 2015.
- 8. If Option 2 is chosen for the LTVT, an Aboriginal Heritage Impact Permit (AHIP) will be required to move or collect the Aboriginal artefacts recorded at sites Pallaibo 1 to 11.
- 9. Aboriginal sites are to be flagged and fenced off to ensure they are not inadvertently damaged during construction and to provide basic training for contractors in the recognition of Aboriginal artefacts.
- 10. Further investigation is required if there are significant deviations from the existing proposed alignment outside the survey area.
- 11. If artefacts are located during construction, work must cease within a 100m buffer zone of the location where the artefact was found and an AHIP applied for.

Flora and Fauna safeguards and mitigation measures

- 12. A pre-clearance survey will occur to identify *Pterostylis oreophila, Discaria nitida, Leucochrysum albicans var. tricolor* and nests of Olive Whistlers and Pink Robins. The track is to be realigned to avoid any findings but it is to stay within the corridor that was assessed during previous field surveys.
- 13. The revised commitments outlined in Issue 21 of the Submissions report are to be amended and implemented as follows:

NPWS would complete the following, at a minimum to compensate for environmental impacts:

- Implement a weed management plan as part of a Track Management Plan;
- Ensure that the Lower Thredbo Valley is considered for inclusion in NPWS feral animal control plans;

- After the project is complete, NPWS will calculate the area of the impacted zone that the track passes through;
- NPWS is to implement rehabilitation at alternative locations within KNP to achieve a maintain and improve outcome; and
- The area to be rehabilitated will be additional to the rehabilitation that occurs within the corridor of the track.

Safety and OH&S compliance

14. Southern Ranges Region is responsible for any compliance engineering and geotechnical aspects of the project.

Other Matters

15. The Approval is given for the REF route as presented. Additional works to construct the bridge crossing the Thredbo River at Gaden would be subject to further approvals under a Development Application due to it being located off Park, with the exception of the footings on the Northern side of the river which are on Park.

Foot Note: Southern Ranges Region is responsible for engineering, geotechnical, OH&S compliance