8 TRAIL DEVELOPMENT PLAN

Riders testing Mack 10, St Helens, Tasmania

The recommended trail development plans have been determined following careful consideration of the project objectives, trail design principles, specific project design principles, thorough assessment of the trail options and consideration of the comments provided by the Project Reference Group and key stakeholders.

The recommended trail development plans meet the project objectives by:

- Enhancing the Canberra mountain bike offer through the addition of dedicated gravity, enduro and all-mountain trails;
- Recognising Stromlo Forest Park as the primary activity area for mountain biking in Canberra;
- Integrating new trails into an existing activity area (Cotter Recreation Area) that provides a value-add to SFP.

8.1 TRAIL NETWORK SUMMARIES

8.1.1 Project Area 1

Project Area	Trail No.	Trail Style	Description	Likely Trail Difficulty Rating	Length (m)
1	Trail 1	Adventure	Descending trail from Stromlo Forest Park to Casuarina Sands. Starts at intersection of Deep Creek and Short and Sharp, allowing riders to descend part-way off the summit on existing trails, then turn-off onto this new trail. It is also possible to access without climbing to the summit.	Easy Intermediate	8272
	Trail 2	Adventure	Climbing trail from Casuarina Sands back to Stromlo Forest Park. Follows a similar alignment to Trail 1, touching on it in one location, allowing crossover between the two trails. Connects back into existing SFP trails at junction of Terminal Velocity and Spin Doctor.	Easy Intermediate	9128
Sub-	Total for I	Project Area			17400

	Very Easy	Easy	Easy/ Intermediate	Intermediate	Intermediate / Difficult	Difficult	Extreme
Length	0	0	17400	0	0	0	0
Percentage	0%	0%	100%	0%	0%	0%	0%

8.1.2 Project Area 2

Project Area	Trail No.	Trail Style	Description	Likely Trail Difficulty Rating	Length (m)
2	Trail 3	Other	Existing dual-directional shared-use pathways and roads throughout the Cotter precinct.	Very Easy	2687
	Trail 4	Adventure	First stacked loop north of Cotter. Climbs up to a small carpark on Brindabella Rd, before descending back down to Cotter.	Easy Intermediate	5125
	Trail 5	Adventure	Second stacked loop north of Cotter. Climbs all the way up to Hyles Block, where a road crossing will be required to allow riders to cross the road and access the Cotter Pines MTB trails. At this point it turns back towards the south, climbs to the top of Mt McDonald, before commencing the long descent back down to Trail 4.	Intermediate	7871
Sub-	Total for I	Project Area		•	15683

	Very Easy	Easy	Easy/ Intermediate	Intermediate	Intermediate / Difficult	Difficult	Extreme
Length	2687	0	5125	7871	0	0	0
Percentage	17%	0%	33%	50%	0%	0%	0%

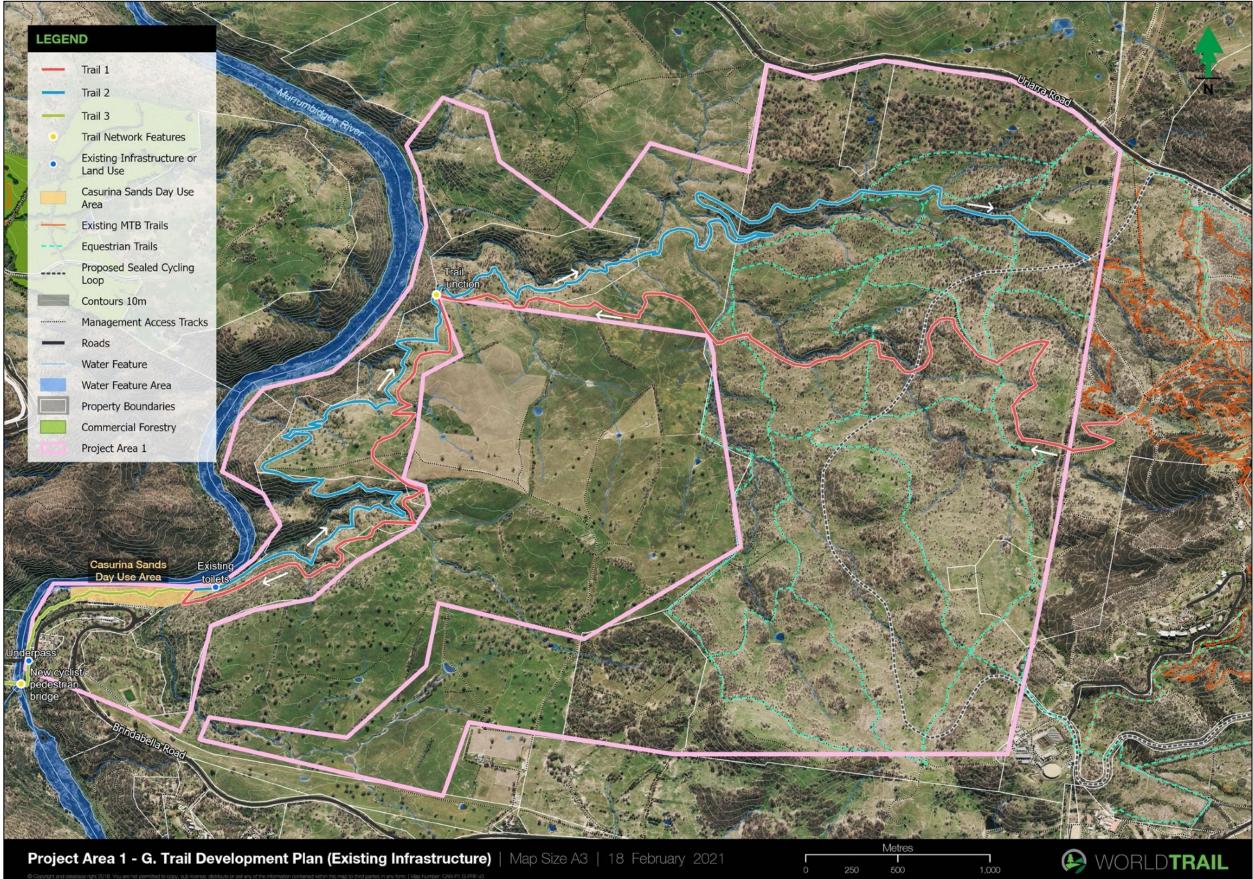
8.1.3 Project Area 3

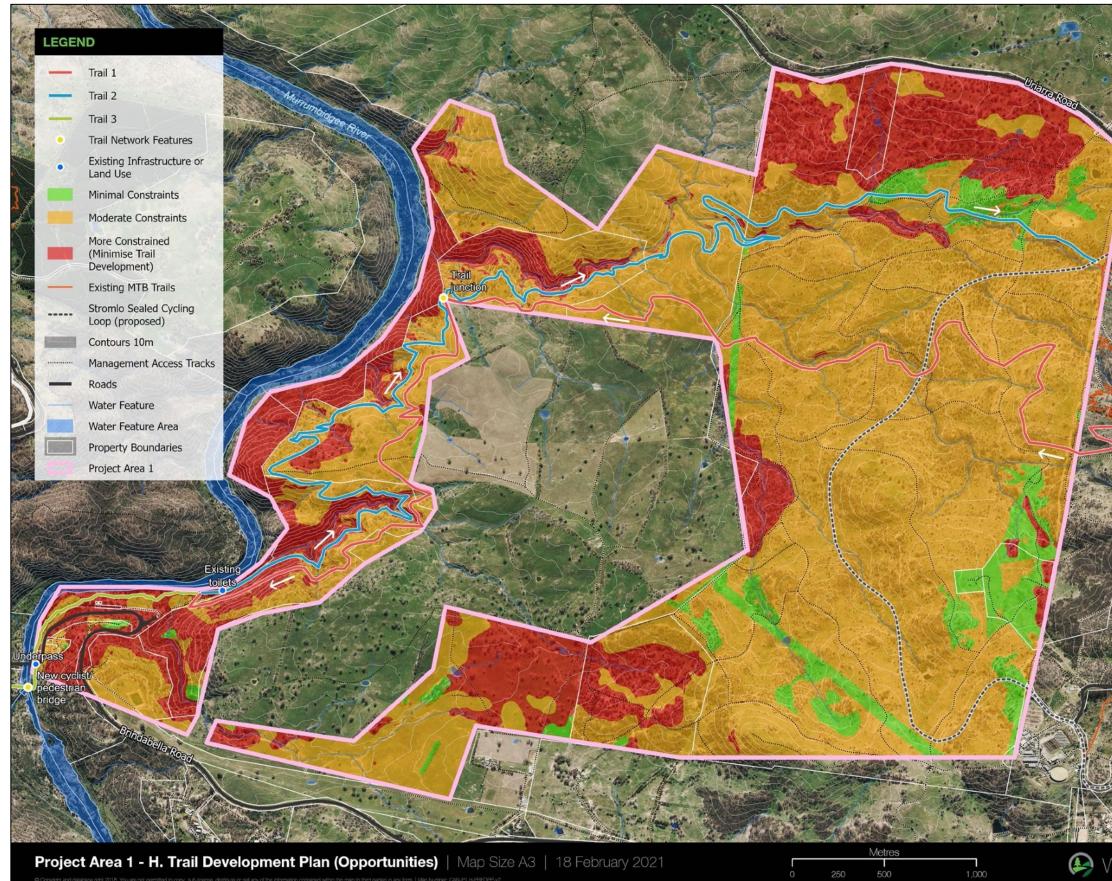
Project Area	Trail No.	Trail Style	Description	Likely Trail Difficulty Rating	Length (m)
3	Trail 6	Adventure	Climbing trail to the summit. Takes in a large rocky bluff looking out to the southwest.	Intermediate	6826
	Trail 7	Adventure	Cross-country loop trail, connecting the trailhead to an outlying cleared site (potential overflow parking) to the east, with gentle gradients.	Easy	2788
	Trail 8	Gravity	Northernmost and longest descending trail, from top to bottom.	Intermediate	8771
	Trail 9	Gravity	Mostly existing DH trail.	Difficult	1599
	Trail 10	Gravity	Top to bottom descent.	Intermediate Difficult	6509
	Trail 11	Gravity	Follows an existing DH trail for approx. 75% of length.	Difficult	2147
	Trail 12	Gravity	Steep challenging trail in upper part of the mountain.	Extreme	4119
	Trail 13	Gravity	Traversing link trail between 11 and 12.	Difficult	1398
	Trail 14	Adventure	Long traversing style descent in lower half of mountain. Starts on Trail 6 (main climbing trail), but also connects to 2- 3 potential shuttle drop-off points.	Intermediate	3306
	Trail 15	Gravity	Short steep gravity trail on the lower mountain.	Difficult	1409
	Trail 16	Gravity	Lower mountain gravity trail.	Difficult	1714
	Trail 17	Gravity	Lower mountain gravity trail.	Intermediate Difficult	1606
	Trail 18	Gravity	Lower mountain gravity trail.	Intermediate	1772
Sub	-Total for I	Project Area			43965

	Very Easy	Easy	Easy/ Intermediate	Intermediate	Intermediate / Difficult	Difficult	Extreme
Length	0	2788	0	20676	8115	8267	4119
Percentage	0%	6%	0%	47%	18%	19%	9%

8.2 TRAIL DEVELOPMENT PLANS

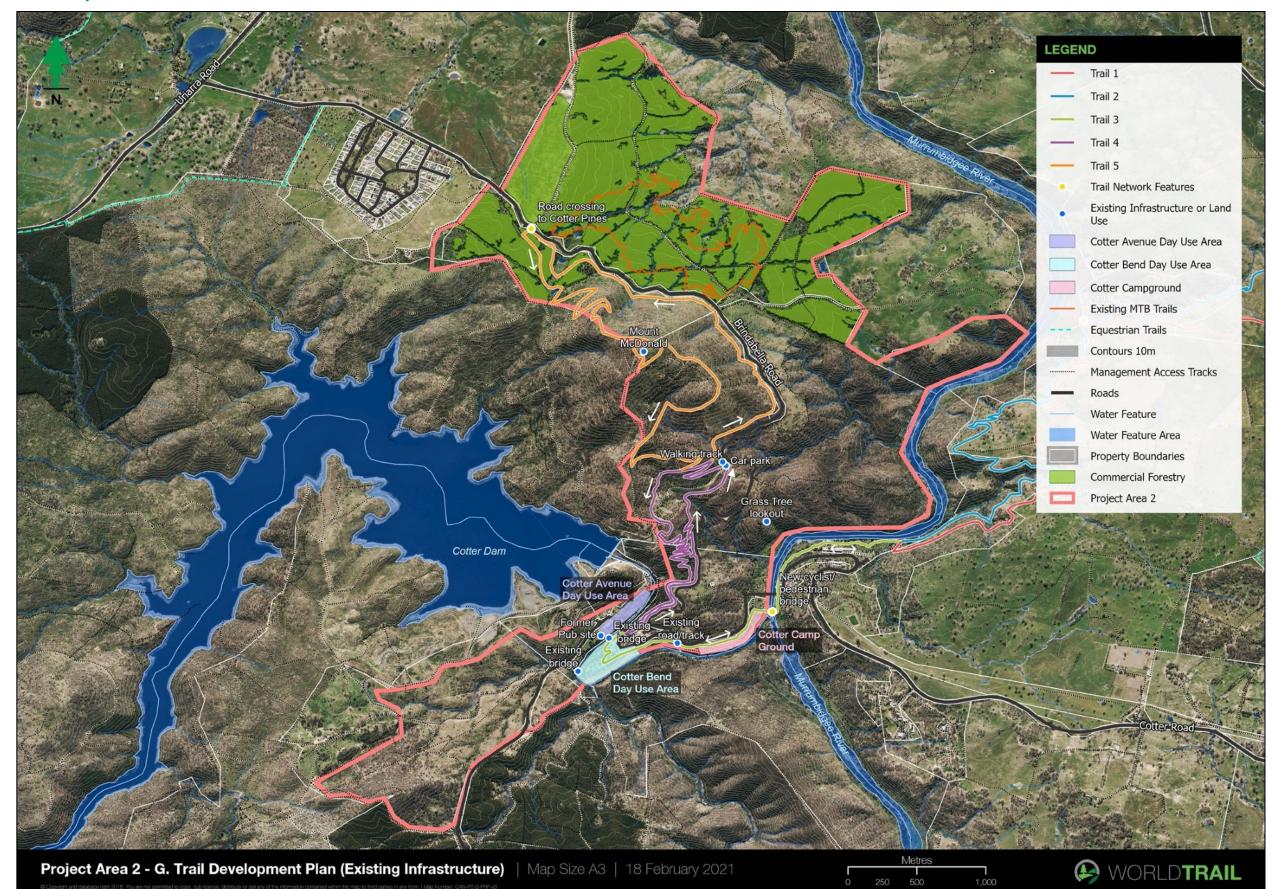
8.2.1 Project Area 1

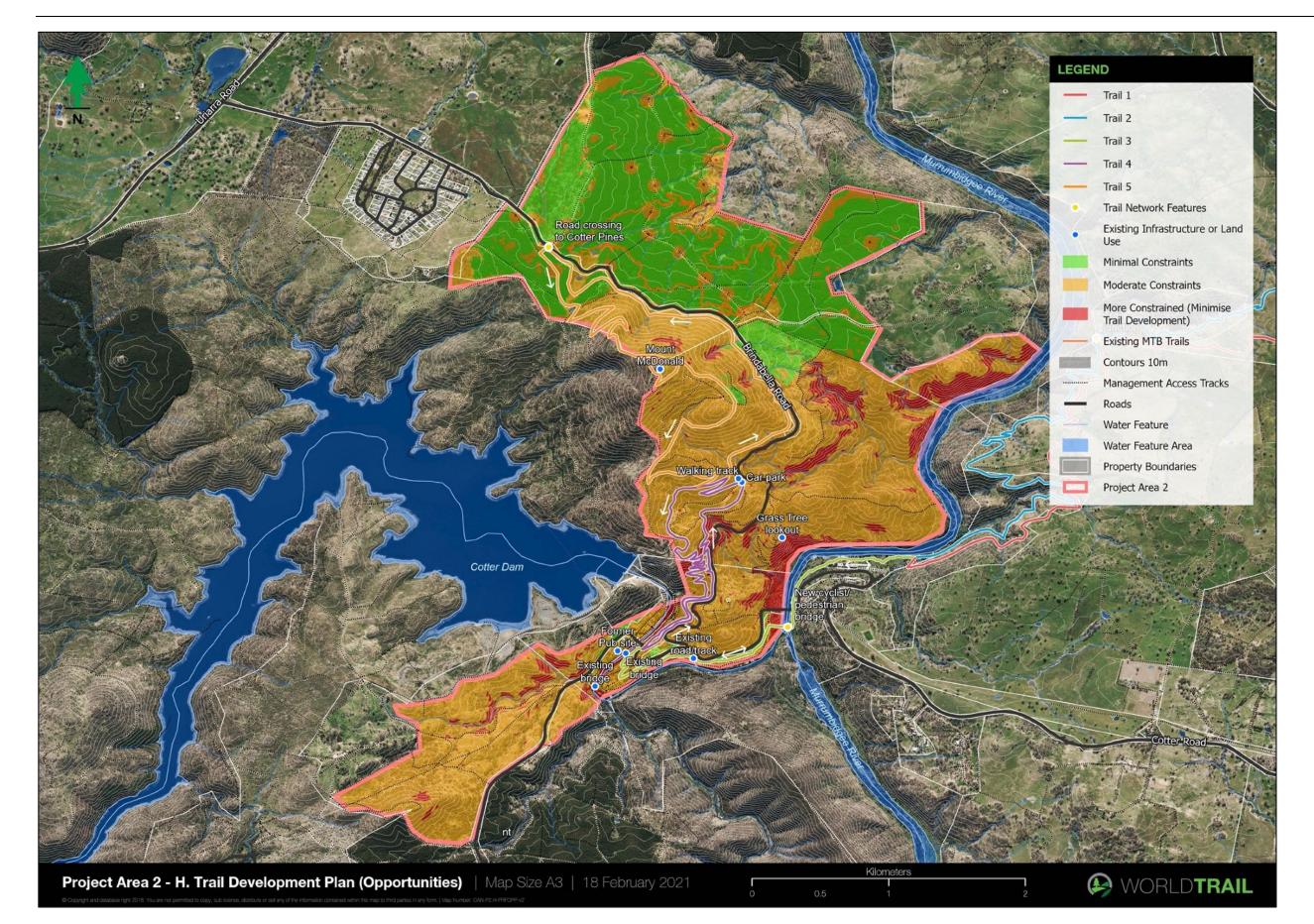




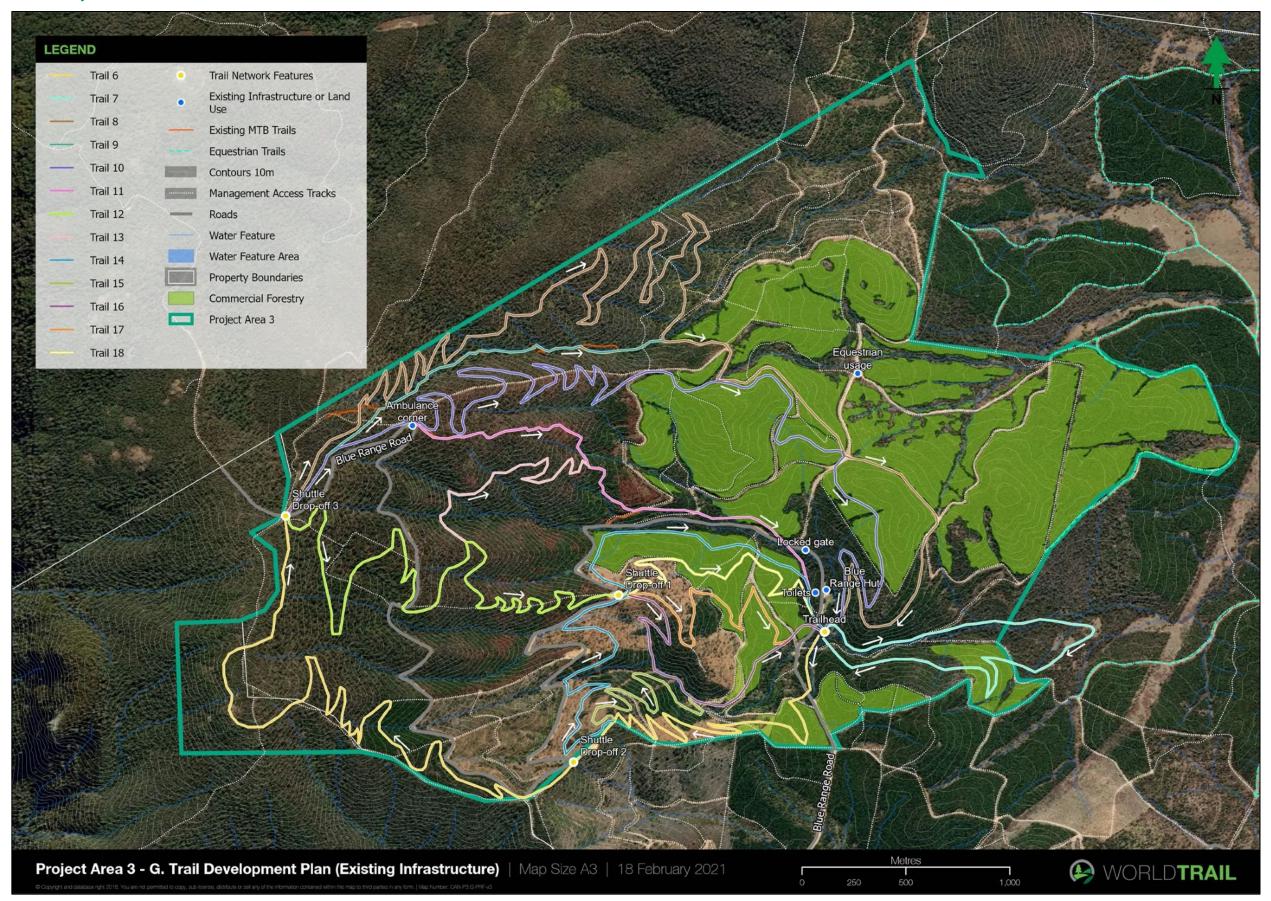


8.2.2 Project Area 2

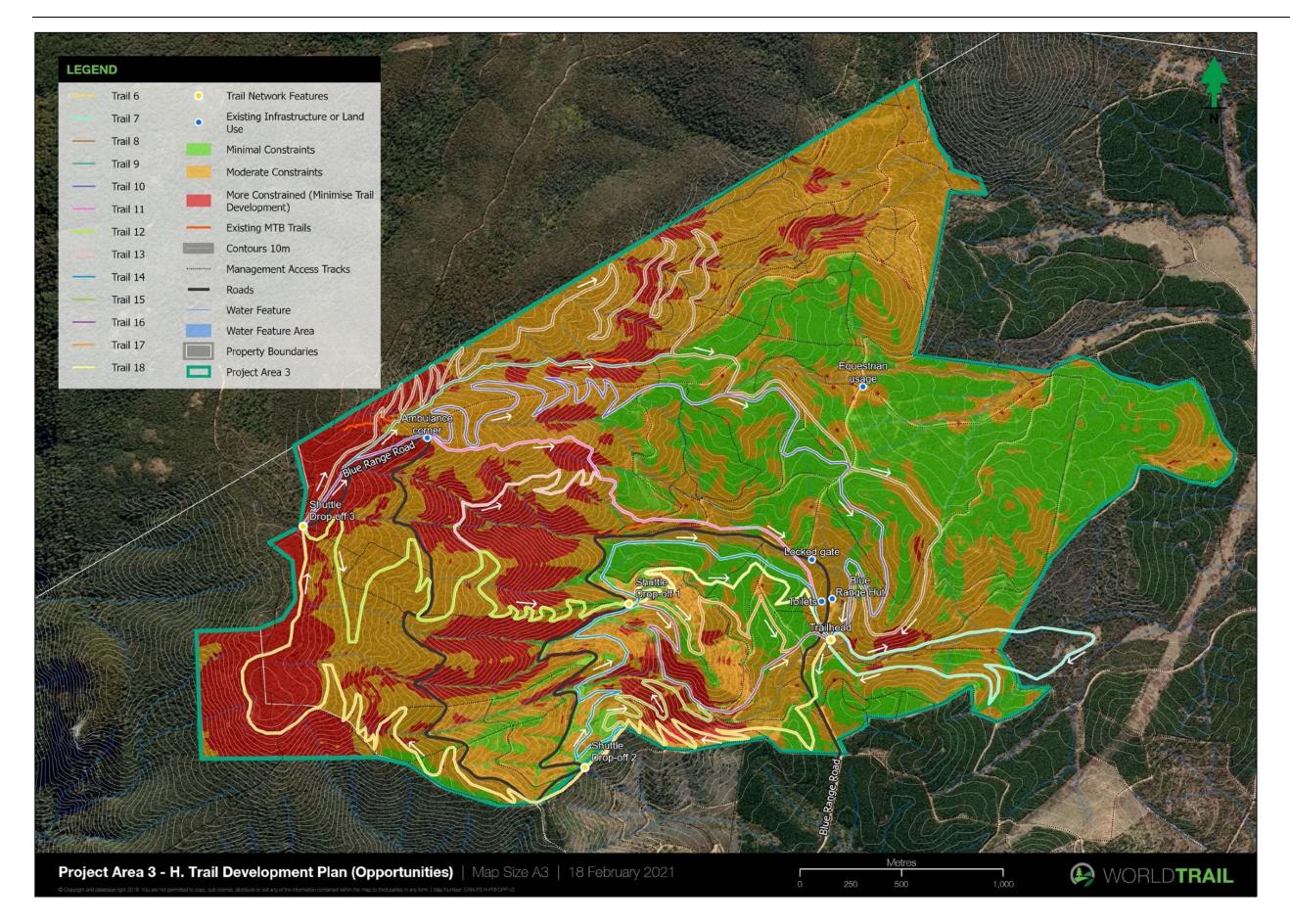




8.2.3 Project Area 3



Canberra Mountain Bike Trails – Stage One Report



8.3 TRAIL DESCRIPTIONS

8.3.1 Project Area 1

Trail 1									
Trail Type	Adventure	Difficulty	<u>ero</u>						
Length	8,184 m	Vertical	Easy / Intermediate 193 m						
Start Elevation	675 m	Finish Elevation	482 m						
Description	Description								
Trail 1 is an adventure trail suitable for beginner through to experienced riders. The trail starts at the intersection with a number of existing MTB trails in SFP including Brindabella, Deep Creek and Short & Sharp. Riders can commence the long descent from the Stromlo summit by first riding down a combination of existing trails to then connect with Trail 1 for the approximately eight kilometre ride to Casuarina Sands. A mid trail intersection with Trail 2 approximately five kilometres from the start, provides an opportunity for a shorter loop.									
Benefits		Potential issues							
 Can be accessed fro one of the other cro Shorter riding loop Suitable for all abili 	available;	Passes through some relatively	remote country.						
Elevation Profile									
Elevation - m		_ Mid trail inter with Trail 2	section						
700 600 500									
400 0	1,000 2,000 3,000	4,000 5,000 6,00	0 7,000 8,184						
	Di	stance - metres							
Horizontal / v	vertical scale – 1:2								

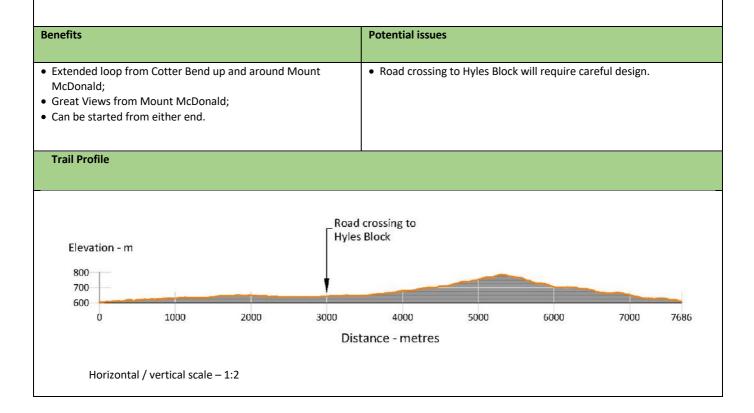
Trail 2							
Trail Type	Adventure / shared use	[Difficulty		GFD		
Length	9,001		Vertical		Easy / Inte 138 m	ermediate	
Length	5,001		Vertical		150 11		
Start Elevation	475 m	F	Finish Elevation		613 m		
Description							
Trail 2 is a climbing, shared use trail commencing at Casuarina Sands and winding up through Stony Creek to finish in the existing SFP MTB trail network, intersecting with the fire road in the vicinity of Spin Doctor. The mid trail intersection, approximately 4.2 kilometres up from Casuarina Sands provides riders with two shorter loop trail options.							
Benefits		F	Potential issues				
 Gentle and mostly consistent climb accessible to most riders; Passes through high quality natural environment providing a quality, immersive riding experience; Option for shorter riding loop available. 			 High value environment requiring thorough detailed assessment to determine a suitable alignment; Some steep sections may require careful route planning to ensure appropriate exposure; Relative high planning and construction cost associated with the above issues. 				g to ensure
Trail Profile							
Elevation - m 700 600 600 400 0 1000 2000 3000 4000 5000 6000 7000 5000 6000 7000 8000 9001 Distance - metres							
Horizontal / vertical s	Horizontal / vertical scale – 1:2						

8.3.2 Project Area 2

	Trail 3							
Trail Type	Shared use, dual direction	Difficulty	ETS .					
			Very Easy					
Length	2,677 m	Vertical	18 m					
Start Elevation	486 m	Finish Elevation	468 m					
Description								
Casuarina Sands and	e, dual direction trail utilising existing paths a Cotter Bend, passing over the Murrumbidge cion Area is already well used by Canberrans	ee River and through the Cotter car	npground.					
	ading of the existing pathway and trail netw							
	edicated pedestrian and cyclist bridge over the control of the con	the Murrumbidgee River is recomm	ended to provide consistent					
Benefits		Potential issues						
Recreation Area; • Connects Trail 1 to and 5);	terrupted passage through the Cotter the Mount McDonald trails (i.e. Trails 4 of areas with parking and facilities.	and is not viable for increased r proposed trail development.	table for a quality riding experience ider numbers associated with the n including camping and picnicking					
Trail Profile								
Elevation - r	n	Bridge						
500		1 1						
400	1000		2000 2677					
0			2000 2077					
	Di	stance - metres						
Horizontal / vertical scale – 1:2								

	Trail 4							
Trail Type	Adventure / cross-country	Difficulty	کمی Easy \ Intermediate					
Length	4,962 m	Vertical	136 m					
Start Elevation	487 m	Finish Elevation	487 m					
Description								
park and continues f	Trail 4 is a short adventure loop starting and finishing at the Cotter Bend car park. The trail climbs up to the Cotter Dam lookout car park and continues further uphill a short distance before commencing the descent back to Cotter Bend. The trail takes riders past the Cotter Dam lookout with exceptional views over the dam from the upper section of trail which then descends for the return back to the Cotter Bend car park area.							
Benefits		Potential issues						
	ng great views over Cotter Dam; om Cotter Bend carpark.	 Steep terrain will require thorough detailed site assessment to determine a sustainable alignment. 						
Trail Profile								
Elevation - m								
0	1000 2000 Dis	3000 stance - metres	4000 4962					
	5.							
Horizontal	Horizontal / vertical scale – 1:2							

		Trail 5					
Trail Type	Adventure / cross-country	Difficulty	ර ්ර Intermediate				
Length	7,686 m	Vertical	168 m				
Start Elevation	609 m	Finish Elevation	609 m				
Description							
Trail 5 continues on from the Trail 4 climb, skirting Mount McDonald and continuing along above the Brindabella Road to the road crossing providing access to the Hyles Block trails. From this point Trail 5 commences the return continuing upward to the summit of Mount McDonald, and then descending back to meet Trail 4 just above the Cotter Dam lookout carpark.							



8.3.3 Project Area 3

	Trail 6					
Trail Type	Adventure - climbing	Difficulty	م آntermediate			
Length	6,838 metres	Vertical	525 m			
Start Elevation	737 m	Finish Elevation	1234 m			
Description						
Trail 6 is a climbing trail that ascends to the start of the upper, longer gravity trails and also provides rider access to the lower, shorter gravity trails. Trail 6 travels into the Namadgi National Park immersing riders in a unique landscape of exposed high altitude boulders and rock faces amongst alpine vegetation. This section of trail will be shared with walkers.						
Benefits		Potential issues				
 Short / medium rar Passes through sce 						
Elevation - m Shuttle drop for lower trails 1300 Road crossing 1200 Road crossing 100 276 m 900 276 m 0 1,000 2,000 3,000 4,000 5,000 6,000 5,838						
0 1,000 2,000 3,000 4,000 5,000 6,000 6,838 Distance - m Horizontal / Vertical scale - 1:2						

	Trail 7					
Trail Type	Cross-country	Difficulty	قطری Easy			
Length	3,017 metres	Vertical	81 m			
Start Elevation	690 m	Finish Elevation	690 m			
Description						
Trail 7 is a short cross-country loop that connects to a generous open space to the east of Blue Range Hut, that may me suitable as an event staging area and large camping area. Trail 7 provides an alternative experience for riders from that provided by the Blue Range gravity trails.						
Benefits		Potential issues				
ability;	Ioop suitable for most levels of rider ial large open space that is suitable for xtend camping.	 Integration with other users, e. 	g., equestrian riders.			
Trail Profile						
Road crossing - Potential event 1360 m staging area 1680 m						
700 650						
0	1,000	2,000	3,017			
Distance - m Horizontal / Vertical scale - 1:2						

				Trail 8					
Trail Type	Gravity			Difficulty	/		300 Intermediate		
Length	8,790 m			Vertical			467 m		
Start Elevation	1,222 m			Finish El	evation		755 m		
Description									
Trail 8 is the longest descending trail and is the northernmost of the Blue Range trails. This will be a fast flowing downhill experience suitable for intermediate riders.									
Benefits				Potential issues					
 Top to bottom Blue Range trail; Long riding experience. 			 One road crossing; Some sections are remote. 						
Trail Profile									
Elevation - m 1200 1100 900 800 700					Trail 9 joins in 5700 m		6910 r		
O	1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	8,790
				Distance -	m				
Horizontal / Vertical scale - 1:2									

		Trail 9			
Trail Type	Gravity	Difficulty	Difficult		
Length	1,599 m	Vertical	327 m		
Start Elevation	1,203 m	Finish Elevation	876 m		
Description					
trail that travels de Range trailhead ar	own a steep gully. Trail 9 is acces	ssed via a short ride down Trail 10 which	I Championships. This is a steep, fast flowing n also provides the connection back to the Blue		
Benefits		Potential issues			
Close proximity emergency acce	ng descent suitable for expert ric to Trails 8 and 10 for alternative ss if required; n follows an existing old downhi	• Old trail may require sustainable/suitable	 Trail in steep terrain may present some maintenance issues; Old trail may require some modifications to be made sustainable/suitable for use. 		
	Elevation - m				
	1200 1100				
1000					
	900				
	800 0	1,000 Distance - m	1,599		
	Horizontal / Vertical	scale - 1:2			

	Trail 10						
Trail Type	Gravity		Difficulty		M	ate\Difficult	
Length	6,518 m		Vertical		481 m	ate	
Ŭ	,						
Start Elevation	1,227 m		Finish Elevatio	'n	746 m		
Description	Description						
	Blue Range trail that switchba trail suitable for those wantin						
Benefits			Potential issue	25			
 Top to bottom Blue Range trail; Progression opportunity for intermediate to difficult. Multiple crossings of management vehicle tracks. 							
Trail Profile							
Elevation - 1300 1200 1100 1000 900 800 700 600	Trail 11 start 698 m		3 000	4 000	5 000	Trail 8 joins 6,356n	•
	0 1,000	2,000	3,000	4,000	5,000	6,000	6,518
			Distance - m				
Horizontal	/ Vertical scale - 1:2						

		Trail 11			
Trail Type	Gravity	Difficulty	Difficult		
Length	2,148 m	Vertical	372 m		
Start Elevation	1,136 m	Finish Elevation	764 m		
Description					
	ownhill ride suitable for experie g old downhill trail.	nced riders or intermediate riders looki	ng for a challenge. A large proportion of the trai		
Benefits		Potential issues			
	n follows an existing old downh ocated in pine forests, has lesse <i>v</i> alues.		Old trail may require some modifications to be made sustainable/suitable for use.		
Trail Profile	levation - m				
	1100				
-	1000				
	900				
	800				
700					
	0	Dictance - m	2,148		
Distance - m Horizontal / Vertical scale - 1:2					

			Trail 12			
Trail Type	Gravity		Difficulty		Extreme	
Length	4,127 m		Vertical		364 m	
Start Elevation	1,227 m		Finish Elevation		863 m	
Description					<u> </u>	
	rail proposed to be rated ne sections may require h		ned through some Potential issues	very steep terrai	n, which will nee	ed to be carefully
 Provides opportunity for the most capable and skilled riders; Starts at the highest shuttle drop-off point. Steep terrain; Some hand construction may be required. 						
Trail Profile						
Elevation - m 1200 1100 Road crossing 2,032 m Trail 13 start 2,542 m						
1000						
900						
800-) 1,	000	2,000	3,0	000	4,127
			Distance - m			
Horizo	ntal / Vertical scale - 1:	2				
	,					

	Trail 13						
Trail Type	Gravity	Difficulty	e				
			Difficult				
Length	1,400 m	Vertical	123 m				
Start Elevation	1,028 m	Finish Elevation	905 m				
Description	Description						
Trail 13 is a difficult r finishing the bottom	ated mid-mountain trail connection betwe descent.	en Trail 12 and 11, providing ride	rs with an alternative choice for				
Benefits		Potential issues					
Alternative trail fir	iish to lower Trail 12.	 Steep terrain; Some hand construction may be required. 					
Trail Profile							
Elevatio	on - m						
100	1000						
90	0						
85	0						
	0	1,0	00 1,400				
		Distance - m					
Horizon	tal / Vertical scale - 1:2						

Trail 14						
Trail Type	Adventure	Difficulty	र्टे Intermediate			
Length	3,309 m	Vertical	177 m			
Start Elevation	921 m	Finish Elevation	744 m			
Description						
Trail 14 is an intermediate adventure trail that can be accessed via a riding up Trail 6 or via Shuttle Point 2. Riders can choose to stay on this trail or ride down any of trails 16, 17 or 18, for a similar length return to the main trailhead area.						
Benefits Potential issues						
Provides access to	6 for a short cross-country / adventure	Partly located in current forestry area.				
Trail Profile						
Elevation - m 900 800 700						
0	1,000 Distanc	2,000 ce - m	3,309			
Distance - m Horizontal / Vertical scale - 1:2						

		Trail 15			
Trail Type	Gravity	Difficulty			
Length	1,411 m	Vertical	Difficult 115 m		
Start Elevation	919 m	Finish Elevation	804 m		
Description	_				
to the main trailhea		Potential issues	s with Trail 16 for the final return descent bac		
Short difficult alig	litated forestry area; anment providing progression op essed by both shuttle or a short		 Steep terrain; Some hand construction may be required. 		
Trail Profile					
Elevation 900 —	n - m				
800					
750	0		1,000 1,411		
		Distance - m			
Horizon	tal / Vertical scale - 1:2				

	Trail 16					
Trail Type	Gravity	Difficulty	Difficult			
Length	1,716 m	Vertical	123 m			
Start Elevation	862 m	Finish Elevation	739 m			
Description						
Trail 16 is a short, fa: enthusiast.	st, flowing descent suitable for the more ex	xperienced riders or a worthy chall	enge for the eager intermediate			
Benefits		Potential issues				
 Located in current and rehabilitated forestry area; Progression for intermediate riders; Short trail can be repeated quickly. 						
Trail Profile						
Elevation - m 900						
800						
700 0 1,000 1,716						
	Dista	nce - m				
Horizontal / Vertical scale - 1:2						

	Trail 17						
Trail Type	Gravity	Difficulty	ाntermediate\Difficult				
Length	1,972 m	Vertical	98 m				
Start Elevation	863 m	Finish Elevation	765 m				
Description							
Trail 17 is a short, fas 10 and connects with	t flowing descent suitable for intermediate Trail 16 for access back to the main trailhe	riders looking for a challenge. This t ad area	trail connects with the finish of Trail				
Benefits		Potential issues					
 Located in current Progression for int Short trail can be r 		Partly located in current forestry area.					
Trail Profile							
Elevation - m 900							
800							
700-	0	1,000	1,972				
		ance - m					
Horizontal / Vertical scale - 1:2							

	Trail 18						
Trail Type	Gravity	Difficulty	م آntermediate				
Length	1,774 m	Vertical	113 m				
Start Elevation	862 m	Finish Elevation	749 m				
Description	L						
Trail 18 is a short inte	rmediate trail that can be accessed via the f	irst shuttle drop off point. This trail	also connects with Trail 10 and 14.				
Benefits		Potential issues					
 Located in current a Progression for interestion for the second seco		Partly located in current forestry area.					
Trail Profile							
Elevation - m 900							
800	800						
700 0 1,000 1,774							
Distance - m							
Horizontal / Vertical scale - 1:2							