

Appendix C – Bike Trails in Community Watershed

APRIL 2019



1.1 INTRODUCTION

RMR will be continuing the expansion of their alpine trail network including alpine cross country mountain biking, downhill mountain biking and hiking trails. The trails are located in the ESSF and IMA biogeoclimatic zones and their proposed location is within the City of Revelstoke's Watershed Assessment Area.

1.2 WATERSHED PROTECTION PLAN

Greeley Creek is the City of Revelstoke's primary source of drinking water, with a secondary water source supplied by a groundwater well. The watershed is located in the Selkirk Mountains east of the City and is roughly bound by RMR, the Illecilliwaet River and undeveloped forest. Golder Associates Ltd. completed Greeley Creek Watershed Source Protection Plan in July 2013 identifying that both existing water quality and quantity are good in Greeley Creek. The protection plan also prepared a risk assessment for future scenarios and identified mountain biking as a potential risk for future development.

The proposed trails are located between 1700 – 2000m in elevation and don't cross the Greeley watershed below approximately 1700m elevation, more than 1000m elevation difference from the City's intake at 627. The trails are no closer than 8km (channel length) upstream of the intake.

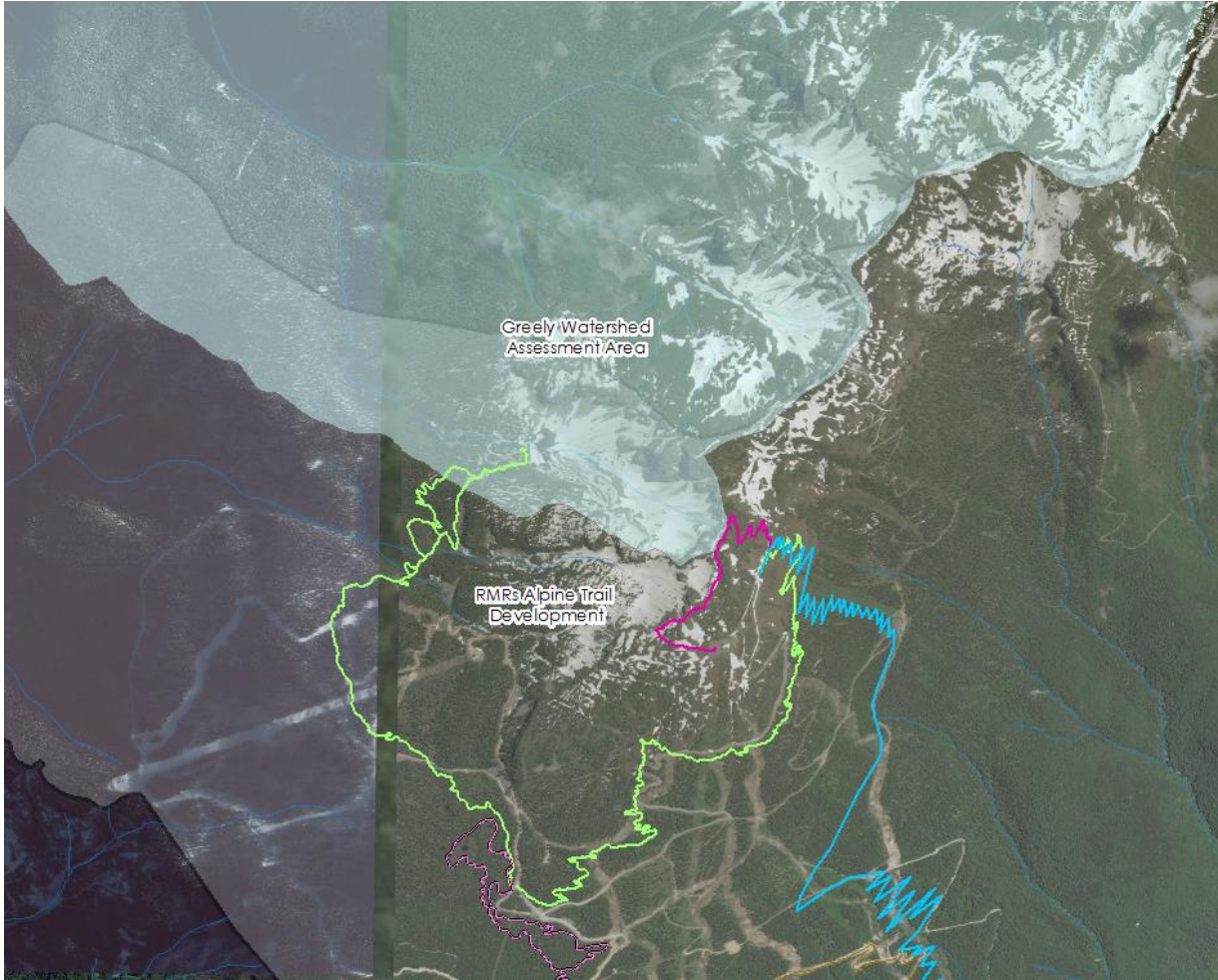
1.3 TRAIL BUILDING

Trails will be built and designed by experienced trail builders, making use of the existing natural features. Trail construction will follow the standards of the International Mountain Bike Association for trail design and construction. Design and construction will be built on the contour and designed to keep users on the tread and run-off off. Fall lines, flat areas and dense vegetation areas will be avoided to ensure minimal disruption. Regrouping points, if required, will be designed throughout the trail to prevent users from straying from the designated areas. RMR will provide boot and bike wash stations to help prevent the spread of noxious weeds.

Best Management Practices will be followed regarding stream crossing and Greeley Creek, and its tributaries will be considered a high-risk crossing within the Water Act. Trail approaches will be perpendicular to stream flow with elevated on/off ramps to control run-off. All crossings will be clear span ensuring abutments are outside of the streams high water mark and construction will take place during In-stream Reduced Risk Work timing windows.

1.4 WATERSHED IMPACTS

The location of the trail network in both distance and elevation will have minimal to no impact on the City's intake and settling ponds. Following trail design and construction standards from IMBA will ensure erosion and sediment control during and after construction as well as sustainable design. Ensuring legislation of the Water Act and Riparian Areas Regulation are met, there will be no harmful alteration, disruption or destruction of fish habitat or deleterious substances to enter the water course.



Trail network in relation to Greely Wastershed Assessment Area