

ERs in the Columbia Headwaters

- Establishment of Mt Sabine & Columbia Lake ERs
- Location of Mt Sabine & Columbia Lake ERs
- Purpose & Eco Significance of CLER & MSER
- Flora, Fungi & Fauna in MSER & CLER
- Warden Activities in MSER & CLER
- Issues in MSER & CLER
- Questions

View toward ERs on East Side of Columbia Lake

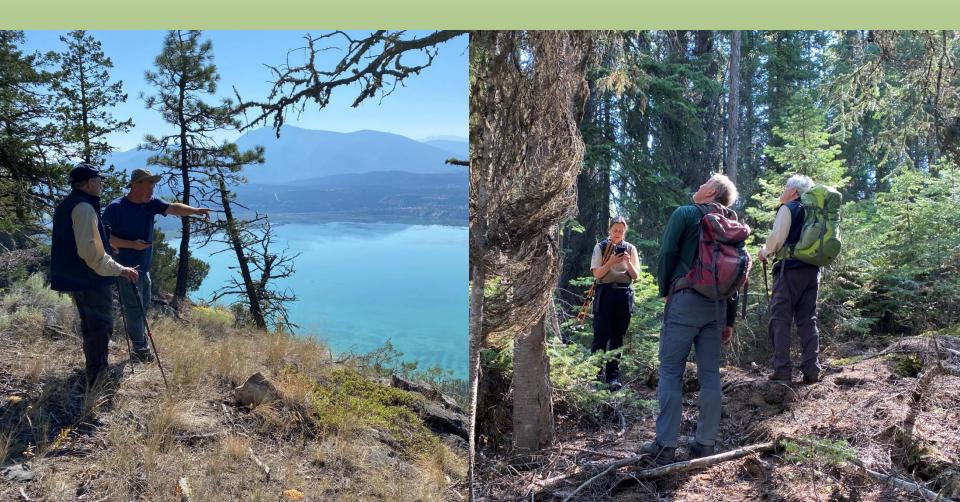
All photos by Jenny Feick unless otherwise credited

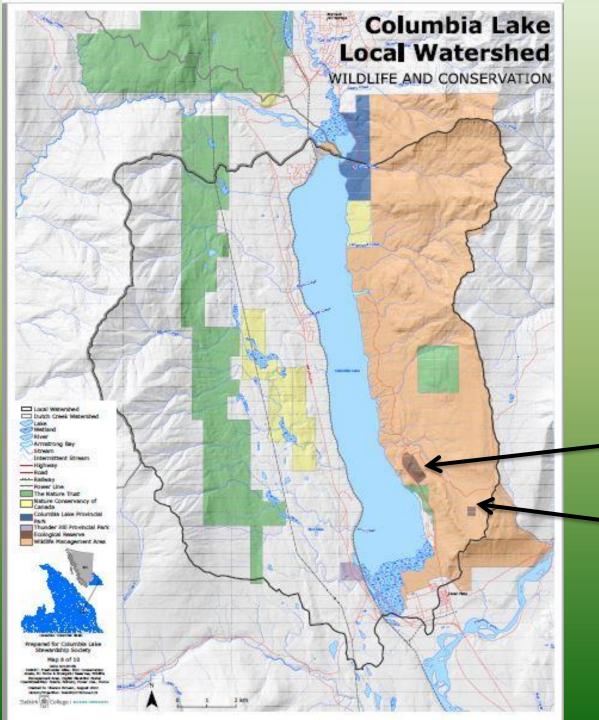


Establishment of ERs in the Columbia Headwaters

ER #20 Columbia Lake

ER #19 Mount Sabine





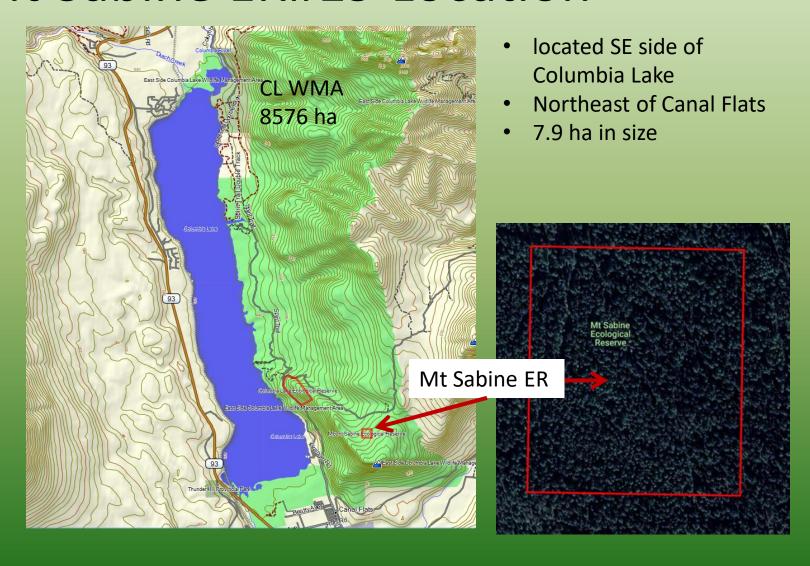
Location of ERs in the Columbia Headwaters

Columbia Lake ER

Mt Sabine ER

Map provided by the Columbia Lake Stewardship Society

Mt Sabine ER#19 Location



Mt Sabine ER#19 Location

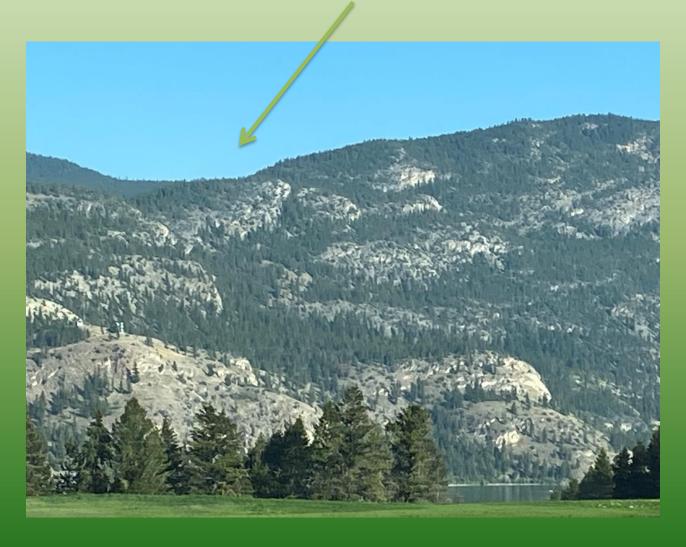
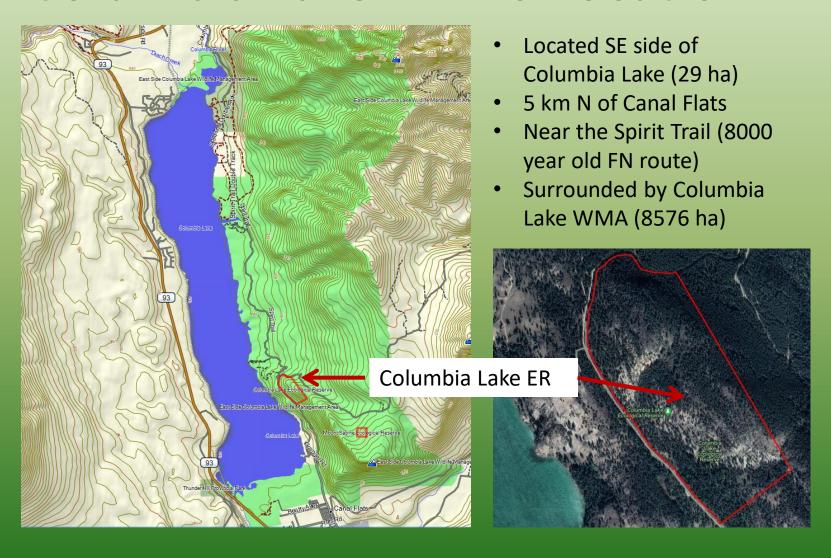
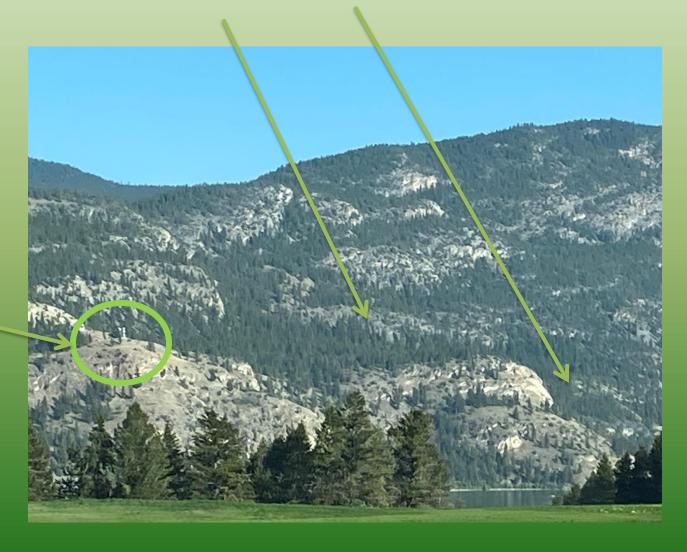


Photo: Jenny Feick

Columbia Lake ER#20 Location



Columbia Lake ER#20 Location



Towers

Photo: Jenny Feick

Columbia Lake ER Purpose & Ecological Significance





- Protects regionally significant geological, hydrological and vegetation features associated with mineral springs and tufa deposits
 - Includes calcicolous plants or "calcicoles" growing in both wet sites (e.g. stream orchid) or on limestone cliffs (e.g. Fee's lip fern)
- Only ER in East Kootenay Trench Ecosection; small contribution (0.41%)



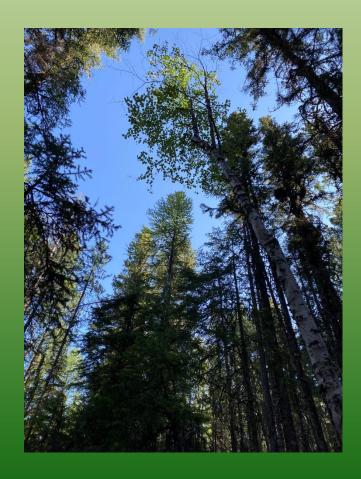


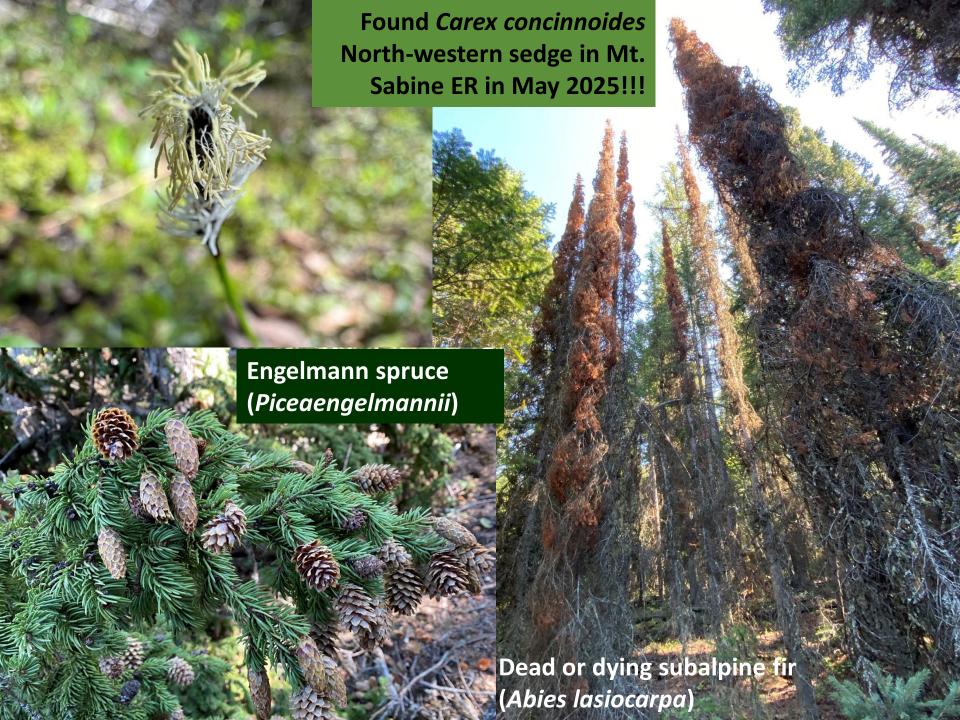
Mt Sabine ER Purpose & Ecological Significance

Established in 1971 to protect sedge meadow encircled by montane spruce forest within an overall semi-arid area



Opportunity to Monitor Climate Change Effects on Vegetation



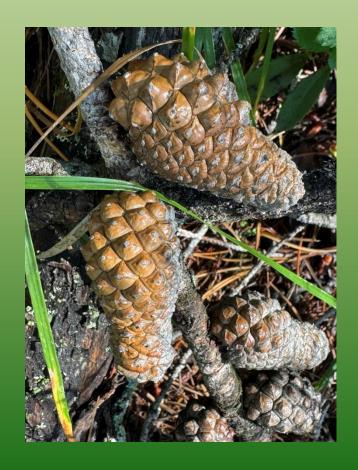


Mt Sabine ER Flora - Conifers

Variety of conifers in the ER



Cones of lodgepole pine















Mt. Sabine ER - Evidence of Fauna

Flower crab spider (Misumena vatia)



Holes made by pileated woodpeckers (*Dryocopus pileatus*)



Mt Sabine ER - Mammals

Yellow-pine chipmunks

(Neotamias amoenus)



Rocky Mountain elk (Cervus canadensis nelsoni) pelvis bones



Columbia Lake ER Flora

Oregon woodsia (Woodsia oregana)





Creeping juniper (*Juniperus horizontalis*)

Sagebrush mariposa lily (Calochortus macrocarpus)









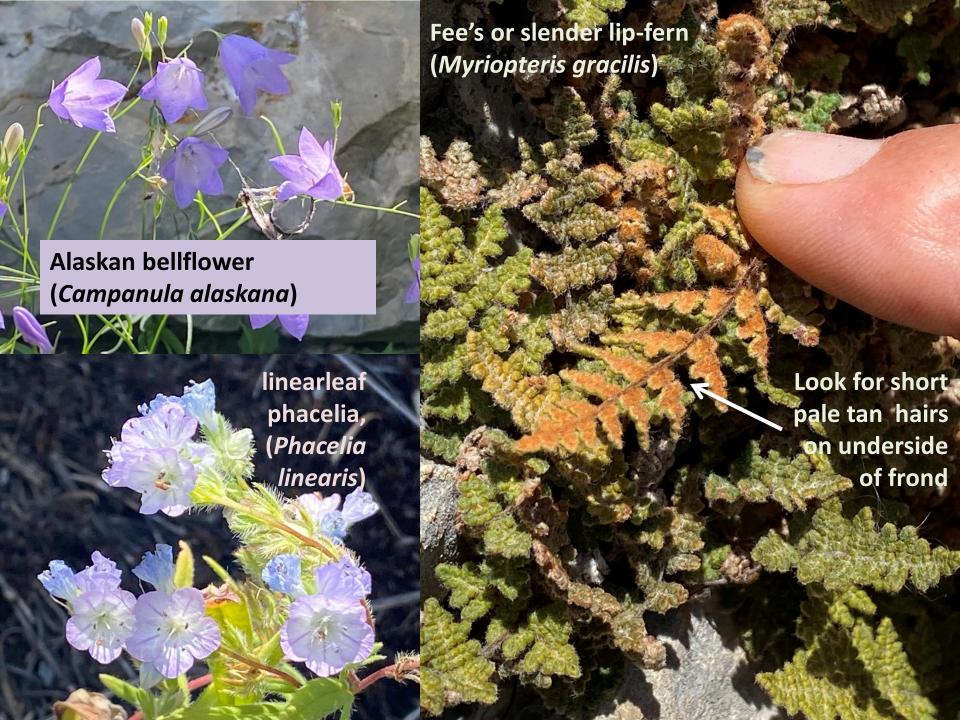












Columbia Lake ER - Ferns & Horsetails

Gastony's cliff-brake (Pellaea gastonyi), a vulnerable species



Field horsetail

(Equisetum arvense)







Columbia Lake ER - Fauna

Arthropods Invertebrat

- * Diplopods
- * Arachnids
- * Insects



Vertebrates

- *Birds
- *Mammals



Fauna - Arthropods





Mormon fritillary (*Speyeria* mormonia) feeding on rabbit-brush (*Ericameria nauseosa*)

Rocky Mountain wood tick (*Dermacentor andersoni*)

Columbia Lake ER Fauna - Birds



Common nighthawk eggs and "nest" (Chordeiles minor)



Turkey vulture (Cathartes aura)

Columbia Lake ER Fauna - Mammals



Bighorn sheep ram (Ovis canadensis)

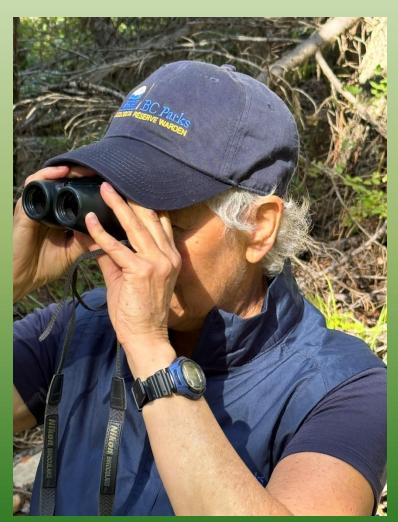


Scat of Rocky Mountain elk *Cervus canadensis nelsoni*)

ER Warden Activities & Issues



Ian Hatter pulling common mullein in the Columbia Lake ER Sept 2025



Jenny Feick bird watching in Mt Sabine ER Sept 2024 (Photo by Ian Hatter)

Annual Reports

+

Mount Sabine Ecological Reserve #19 Warden Report for 2023



Yellow columbine (Aquilegia Bassages) in Mount Sabine Ecological Reserve (Photo by Jenny L. Feick)

Report completed by: Junny L. Feck, PhD, ER Warden for Mount Sabine Ecological Reserve Report completion date: September 4, 2023 Columbia Lake Ecological Reserve #20
Warden Report, 2023

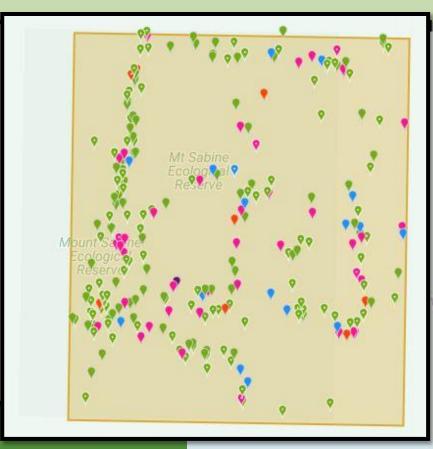


Grant beliebooks, (Epipacia arganites) orchid, also known as stream orchid

Report completed by: ser W. Hetter, ER Warden for Columbia Lake Ecological Reserve, and Dr. Jenny Feick, ER Warden for Mt. Sabine. All photos were taken by Jenny Feick.

Report completion date: October 24, 2023

iNaturalist Observations 2023





Warden Activities in Mt Sabine ER



Warden Activities in Columbia Lake ER









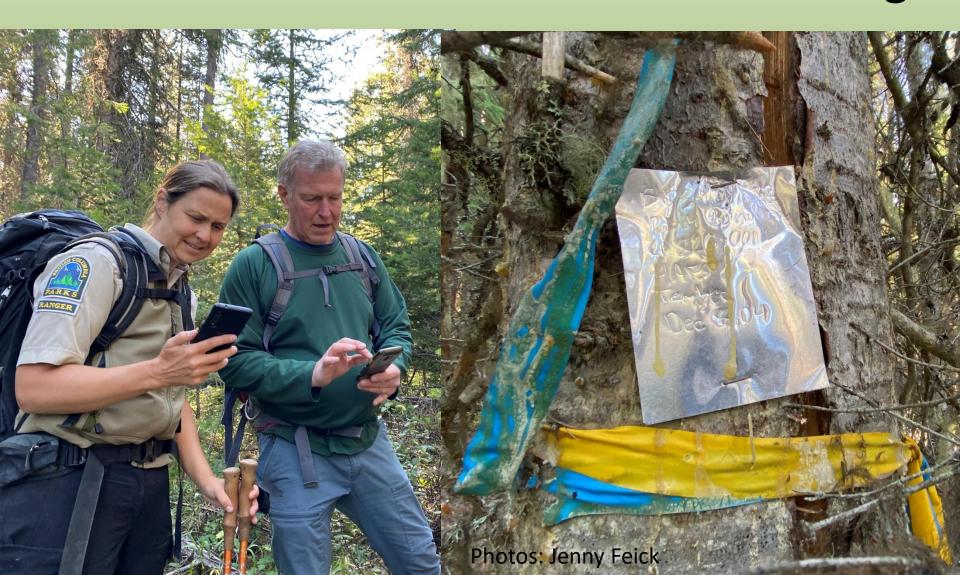
BC Biodiversity Team Visit in June 2024



Screenshot of BC Biodiversity Team Big Year website



Mt Sabine ER Issue – Unmarked Boundaries Evidence of Timber Cruising



Mt Sabine ER Issues - Access

Side access road to climbing area cutting through
Mt Sabine ER Mount Sabine

Asimov Cliffs on Mount Sabine



Mt Sabine ER Issues - Access

Camp Road access road above the W side of Columbia Lake ER is now passable only to quads



It's a long hike to get to Mt Sabine ER



Mt Sabine ER Issues CC Effects on Vegetation



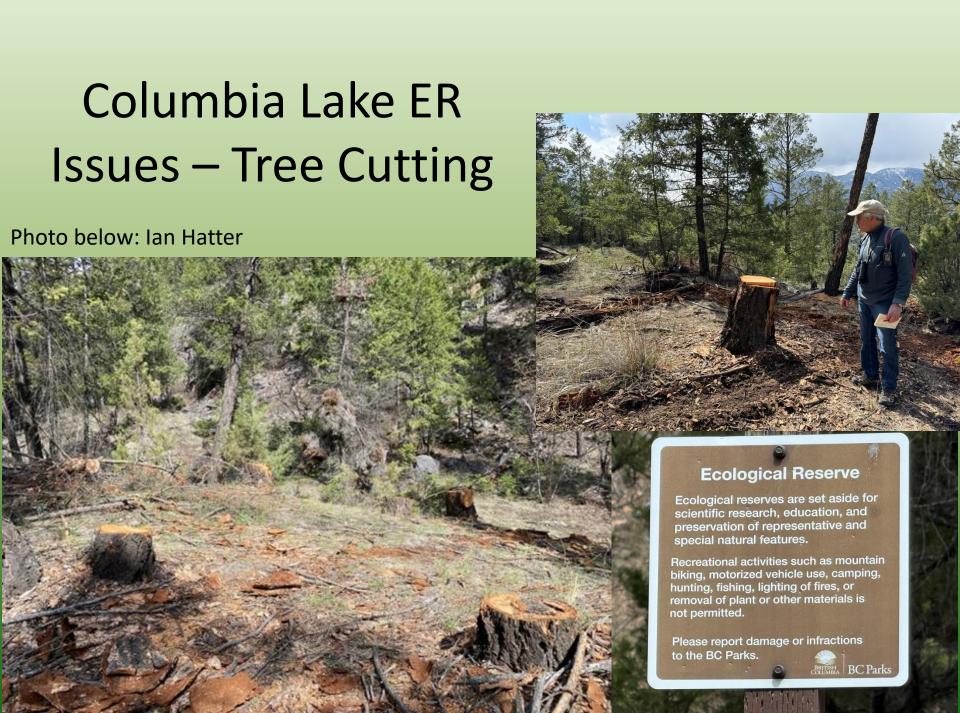


Columbia Lake ER Issues – Human Use

- A trail biker is repeatedly accessing the ER, causing erosion and invasion of alien plants species
- Evidence of campfire and dirt bike use along dry grassy areas above and below the limestone cliffs

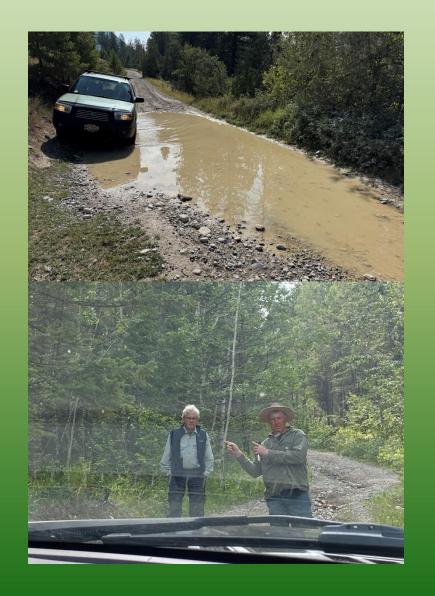






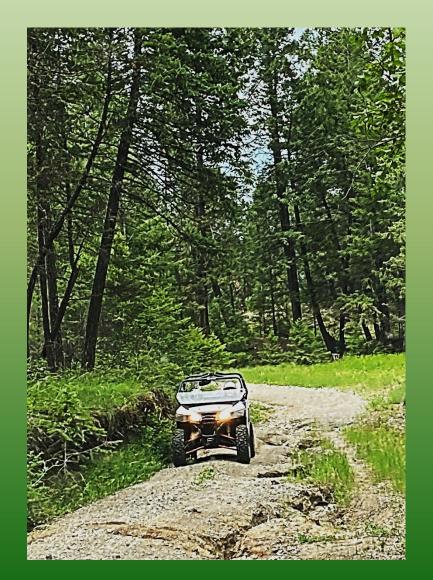
Columbia Lake ER Issues - Access

- Access to the lower portion of ER is along a rough 2WD gravel road accessible by AWD SUV
- The road to access the upper portion is full of deep ruts and rocks with steep grades that require a 4WD truck or ORV



Addressing Access Challenges in Mt Sabine & Columbia Lake ERs





Help from BC Parks Park Enhancement Fund

Funding available for community-led projects – apply now!

Posted on April 30, 2025 Categories:

BC Parks News

BC Parks is pleased to announce we are now accepting applications for the 2025/26 Community Park Enhancement Fund (Community PEF). This funding supports community-led conservation and recreation projects in BC Parks thanks to funding from BC Parks licence plates.

Applications are now open! Click here to apply.

Application deadline: Friday, May 30th, 2025.







Questions?



Selfie of us by Ian Hatter at the SW corner of Columbia Lake ER