Teck Access Boundaries in the Elk Valley
2019–20
Teck Conservation Lands

Teck will be working in cooperation with First Nations, communities and other stakeholders to develop management plans that focus on the conservation of key habitats for wildlife and fish in the Elk Valley and Flathead River Valley for the future.

Please keep conservation in mind when you are enjoying recreation activities on these lands and respect the existing Access Management Areas on the Grave Prairie and Alexander Creek lands. Electronic maps and coordinates at [www.teck.com/coalmaps](http://www.teck.com/coalmaps)
No Unauthorized Entry
No Hunting
No Trespassing

For your protection and ours, observe and follow the No Unauthorized Entry, No Shooting and No Hunting boundaries.

Mining activities can start avalanches or rock slides without warning.

Maps should be used for reference only—follow field signage at all times.

In 2018, 700 ha of land in the northwest and southwest areas have been closed in order to ensure public safety as North and South Spoils progress.

20 ha of land has been re-opened for public access in Upper Fording River area.
For your protection and ours, observe and follow the No Unauthorized Entry, No Shooting and No Hunting boundaries.

Mining activities can start avalanches or rock slides without warning.

Maps should be used for reference only—follow field signage at all times.

If wounded game crosses the safety boundary, do not follow. You must contact Greenhills Operations Loss Prevention for further instructions. Phone 250.865.3098 or 250.865.3042.

Thank you for your cooperation in this matter.
To ensure public and worker safety the boundary will move incrementally as the East Rejects Spoil progresses. Teck committed to making this change incrementally in permits for the East Rejects Spoil, in order to allow access for as long as possible.

Field signage has been updated—maps should be used for reference only.
To prevent spread of noxious weeds please remain on designated trails with vehicles.

Detailed map of Sparwood Ridge available at Elkview Gatehouse or www.teck.com/coalmaps
Mining at CMO is now anticipated to conclude in Q4 2018 when the site will continue to transition to care and maintenance state. We have received valuable feedback from our local communities that has been incorporated into our plans.

We continue to welcome feedback to inform how the land at CMO will be used after mining, considering the values and priorities of regional stakeholders, along with Teck’s safety and biodiversity values.

Please contact feedbackteckcoal@teck.com or 1.855.806.6861
Our Commitment to Water Quality

We recognize addressing the water quality effects of mining is a legacy issue connected to decades of mining. It is complex, and ready-made solutions do not exist; however, we are making progress.

Teck is fully committed to finding solutions and this work is at the global forefront of managing water quality in mining. Success requires a long-term approach, driven by continued innovation and collaboration.

The Challenge

1. The mining process generates large quantities of leftover rock that contains naturally-occurring substances such as selenium, an element that is essential for human and animal health in small amounts.
2. Water from both precipitation and runoff flows through these rock piles and carries selenium and other substances, such as nitrate, into the local watershed.
3. If present in high enough concentrations in the watershed, these substances can adversely affect aquatic health.

Waste Rock

Pilot Study Success: Saturated Rock Fill Project

The Saturated Rock Fill (SRF) facility at Teck Elkview Operations, commissioned in January 2018, is achieving near-complete removal of selenium and nitrate in 10 million litres of mine-affected water per day.

We are now pursuing a second phase of this technology that would double the capacity of the SRF facility at Teck Elkview Operations to treat 20 million litres of water per day. SRFs are a new form of water treatment that has the potential to augment or replace traditional treatment technology. It uses a form of active in situ treatment using naturally-occurring biological processes in water collected in former mining areas to treat and improve water quality.

Going forward, work on the SRF will focus on proving out the results of the Elkview facility and working towards potential broader implementation of SRFs.

Implementing Water Treatment

1. West Line Creek Active Water Treatment Facility
   • Commissioned in February 2016
   • 7.5 million litres per day water treatment capacity
   • Meeting design targets for selenium and nitrate reduction:
     - Selenium concentrations are reduced by about 96% in treated water
     - Nitrate concentrations are reduced by over 99%
   • A challenge related to selenium compounds in discharge water was identified; an Advanced Oxidation Process (AOP) was selected through piloting in 2017 as the best option to address this issue; and is now in operation

2. Planned Active Water Treatment Facilities
   Fording River Operations is now under construction and planned to begin commissioning 2021. When complete it will process 20 million litres of water per day.

Our Ongoing Commitment

Further projects include the Tributary Evaluation Program; Calcite Assessment; Human Health Risk Assessment and fish habitat rehabilitation work.

Research and Development

Teck is undertaking an extensive, multi-year Research & Development Program, focused on:

- Improving mine designs to better control release of water quality constituents at source
- Identifying and piloting improved methods for treating mine affected water
- Approximately 20+ projects are underway now.

Elk Valley Water Quality Plan

In 2014, British Columbia (B.C.) Ministry of Environment approved an area based management plan—the Elk Valley Water Quality Plan (EVWQP). The Plan was informed by scientific advice received from a Technical Advisory Committee chaired by B.C. Ministry of Environment with participation from government, First Nations, an independent scientist and community input received through three phases of public consultation in Elk Valley communities.

An Environmental Monitoring Committee (EMC) was established to advise on the implementation of the plan. The EMC consists of experts from the B.C. Ministry of Environment, B.C. Ministry of Energy and Mines, the B.C. Interior Health Authority, the Ktunaxa Nation Council, an independent scientist and Teck. The EMC reviews and provides input and advice to monitoring reports and study designs. Each year, the EMC hosts a public open house and releases a public report at www.teck.com/elkvalley

Research and Development

Teck is undertaking an extensive, multi-year Research & Development Program, focused on:

- Improving mine designs to better control release of water quality constituents at source
- Identifying and piloting improved methods for treating mine affected water
- Approximately 20+ projects are underway now.

Find Out More

To learn more about our water quality work and provide your feedback and suggestions, go to www.teck.com/elkvalley or call 1.855.806.6854