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TULSEQUAH CHIEF MINE

INFORMATION WEBINAR

December 3, 2025

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Thank you for joining our information session on remediation planning for the Tulsequah Chief Mine.

In this webinar, we will share how Teck Resources and the Taku River Tlingit First Nation (TRTFN) are collaborating to develop a remediation plan for the site. You will learn about the progress made so far and what is next in the planning process.

SEND YOUR QUESTIONS

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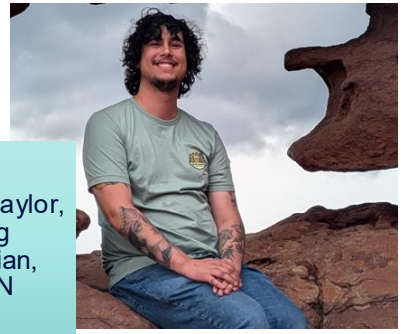
MEET THE TEAM (TECK – TRTFN) STEERING COMMITTEE

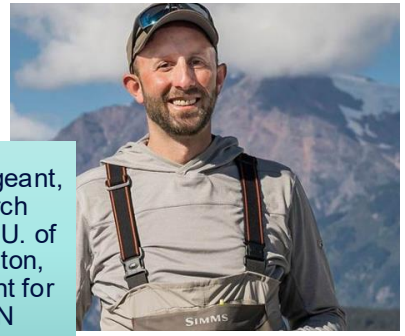
Rodger Thorlakson, Lands and Resources Manager, TRTFN

Gideon Kyei Serbeh, Mining Coordinator, TRTFN



Matthew Taylor, Mining Technician, TRTFN

Jackie Caldwell, Consultant for TRTFN



Chris Sergeant, Research Scientist, U. of Washington, Consultant for TRTFN

Deborah Read, Tulsequah Chief Site Manager, Teck Resources

Stephanie Tissot, Manager, Social Performance & Lands, Teck Resources

ABOUT THE TULSEQUAH REMEDIATION TEAM

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ABOUT TECK RESOURCES

Teck is a leading Canadian critical minerals company focused on responsibly providing metals essential for global development and the energy transition.

100+ years of history as a Canadian company headquartered in **Vancouver, B.C.**

6 total operations in Canada, the U.S., Chile and Peru

Industry leading copper growth pipeline

Top 100 Employer in Canada for 2025

2024 Global 100 Most Sustainable Corporations

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ABOUT TRTFN

The Taku River Tlingit First Nation is located in Atlin, BC, a small remote community of approximately 400 people.

We represent our Citizens on all matters that could affect our Territory that covers over 40,000 sq/km.

Our Territory contains high mountains, expansive forests rich with wildlife, and salmon filled wild rivers.

The Lands Mining Division has been involved in the active planning for the reclamation of the mine since 2018.

Today we have 3 staff and 2 consultants that are committed to understanding the options available for closure and work with Teck and BC to see that come to fruition.

Source: TRTFN Website

COLLABORATIVE GOVERNANCE

Objective: work together in the development of a final remediation plan for the mine site.

Teck and TRTFN meet regularly to plan and discuss remediation planning and field activities.

Steering Committee:

- Guides decision-making.
- Supports alignment on priorities and progress.

Technical Working Group:

- Reviews data and investigations.
- Facilitates collaborative technical discussions.

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COLLABORATIVE GOVERNANCE

Objective: work together in the development of a final remediation plan for the mine site.

Memorandum of Understanding (MOU) between TRTFN, Teck, and BC:

- Signed: September 17, 2024.
- Purpose: Joint development of a closure and reclamation plan for the Tulsequah Chief Mine.
- All parties committed to environmental remediation and reconciliation with TRTFN.

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THE TULSEQUAH CHIEF SITE - LOCATION

The mine is located approximately
100 km south of Atlin, British Columbia, on the Taaltsuxéi Héen.

The mine is approximately:

- 10 km upstream of where the Taaltsuxéi Héen flows into the T'aakú Héeni.
- 30 km from the US border
- 50 km NE of Juneau

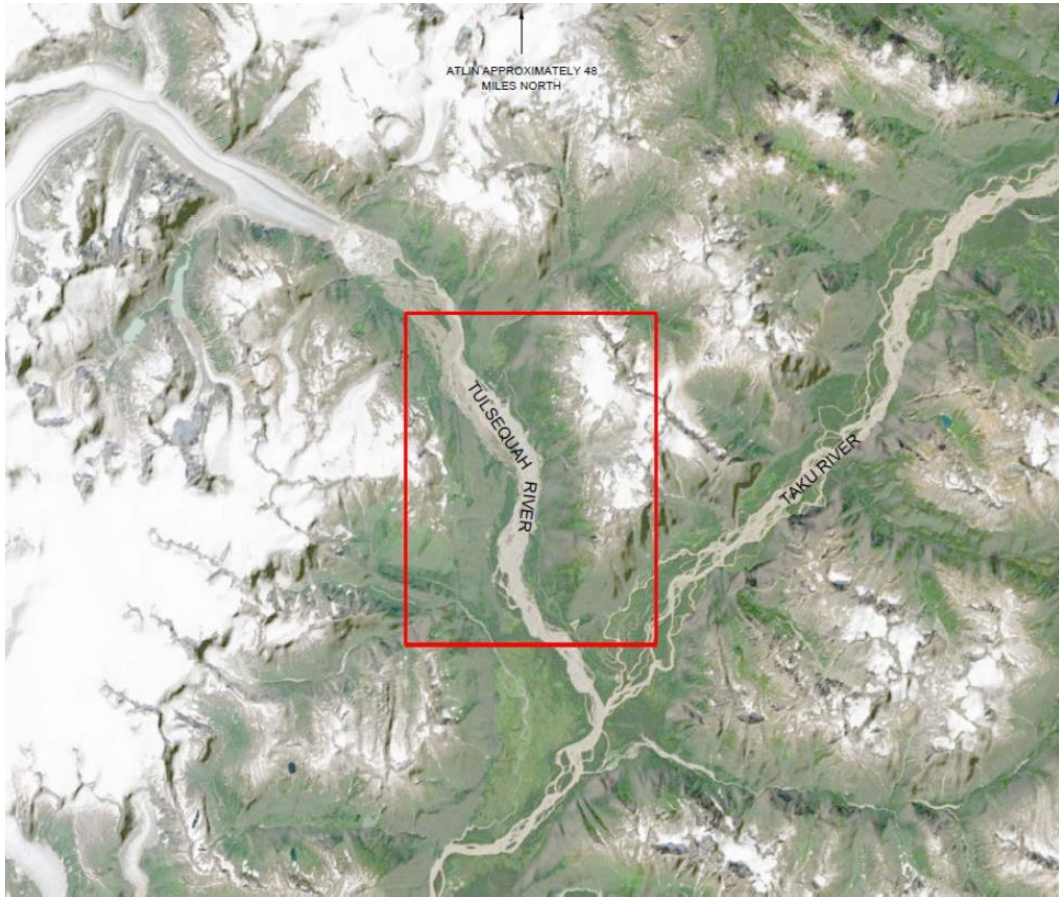
THE TULSEQUAH CHIEF SITE - OVERVIEW

Historic underground copper, lead, and zinc mine, operated from 1951-1957

Objective: Teck and TRTFN working on a final remediation plan for the mine site

Ownership:
Teck does not own the site or facilities and does not hold mining rights

Teck is voluntarily funding and undertaking site investigation work



TIMELINE OF THE TULSEQUAH CHIEF MINE

1947-1958

Underground copper, lead and zinc mine developed/operated by Cominco

1987-2014

Redfern and Chieftain attempted to re-start mine

2015

Mine site entered into receivership

2018-2022

Province of BC conducted work with funding from Teck, including development of an early Closure & Reclamation Plan.

2023 to today…

Teck voluntarily conducts remediation planning.

Remediation discussions with Teck, BC, and TRTFN, including current efforts focused on long-term permanent remediation of the site

= 10 years

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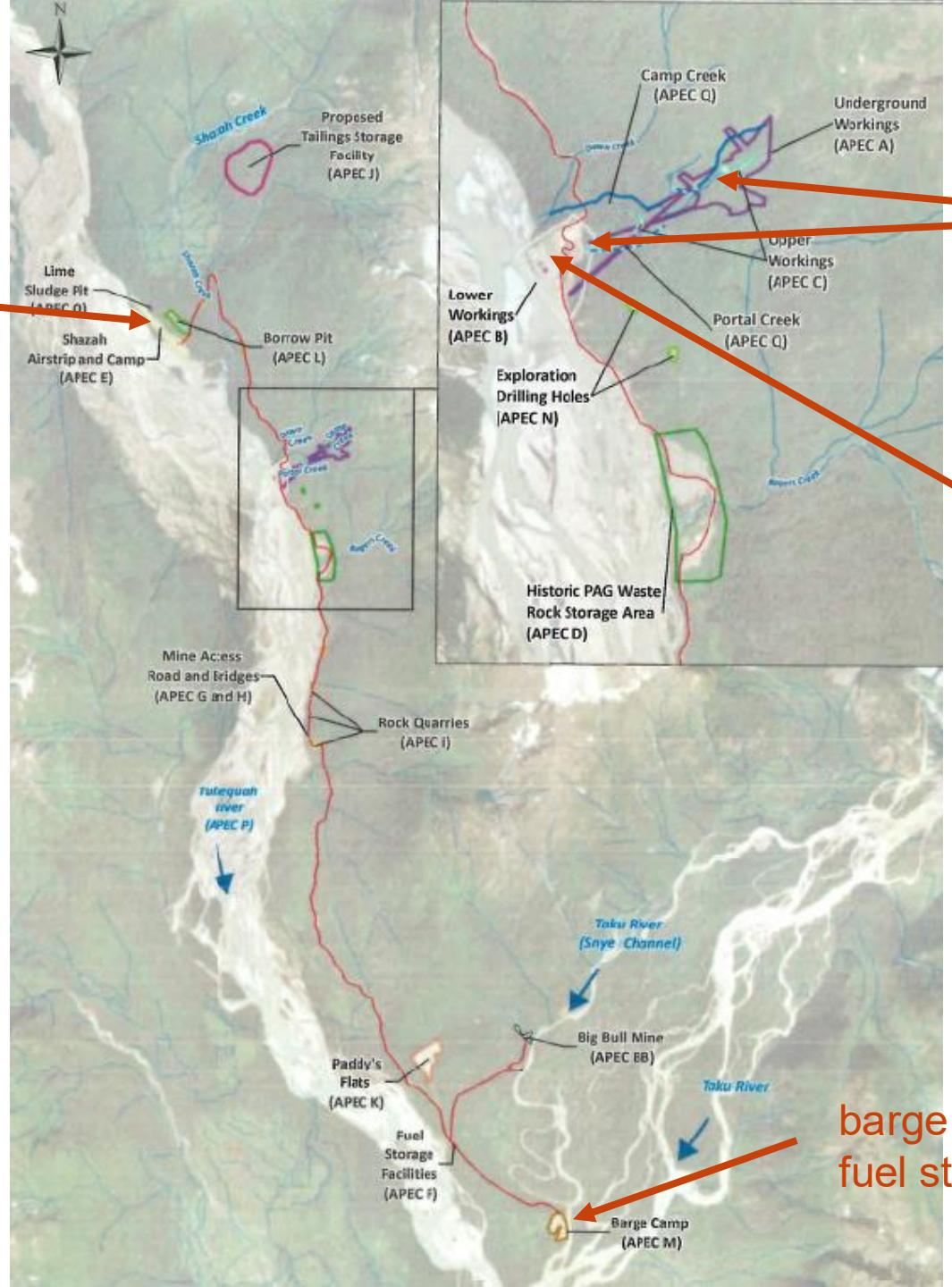
SITE LAYOUT

airstrip, camp,
lime sludge pit



Upper and lower mine workings,

waste rock,
WTP (not functional),
lime sludge pit,
exfiltration pond

barge landing, barge camp,
fuel storage

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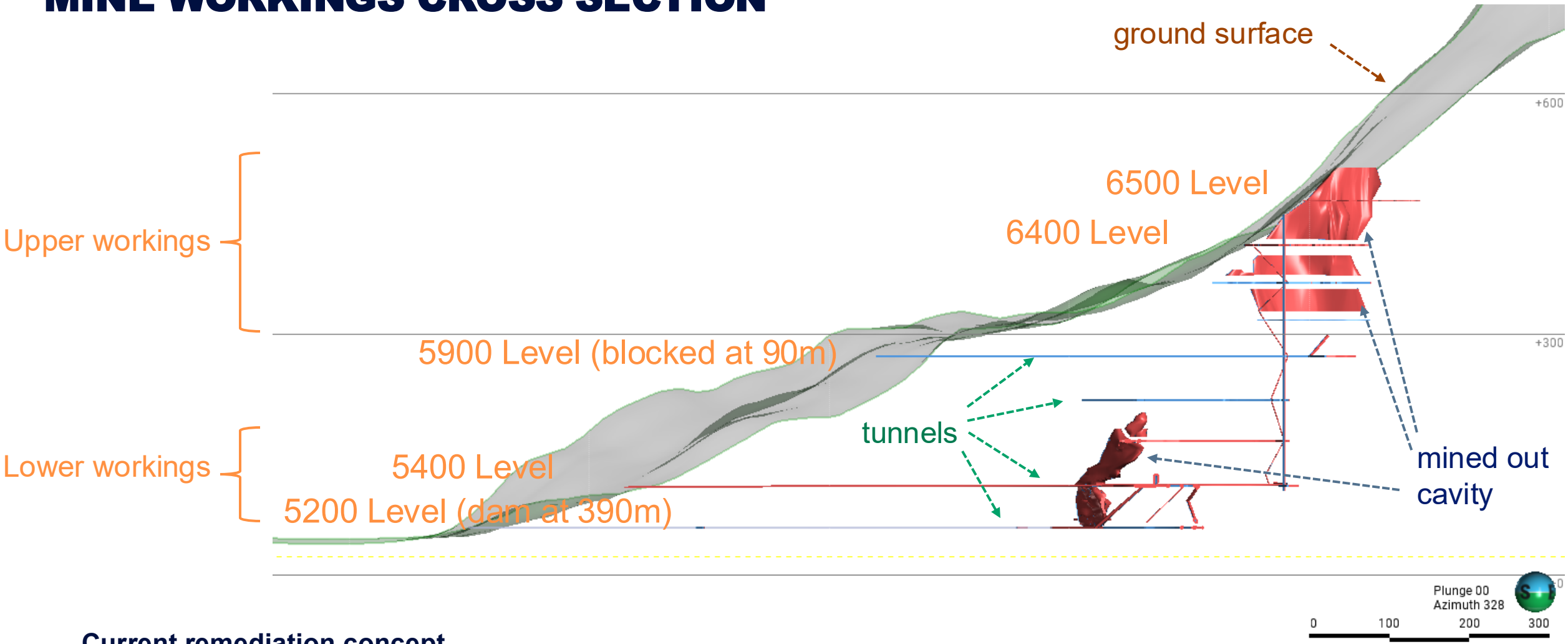
MINE WORKINGS CROSS SECTION



Current remediation concept

- Secure all portals to prevent human entry
- Plug 5200, 5400 to prevent acid mine drainage leaving UG

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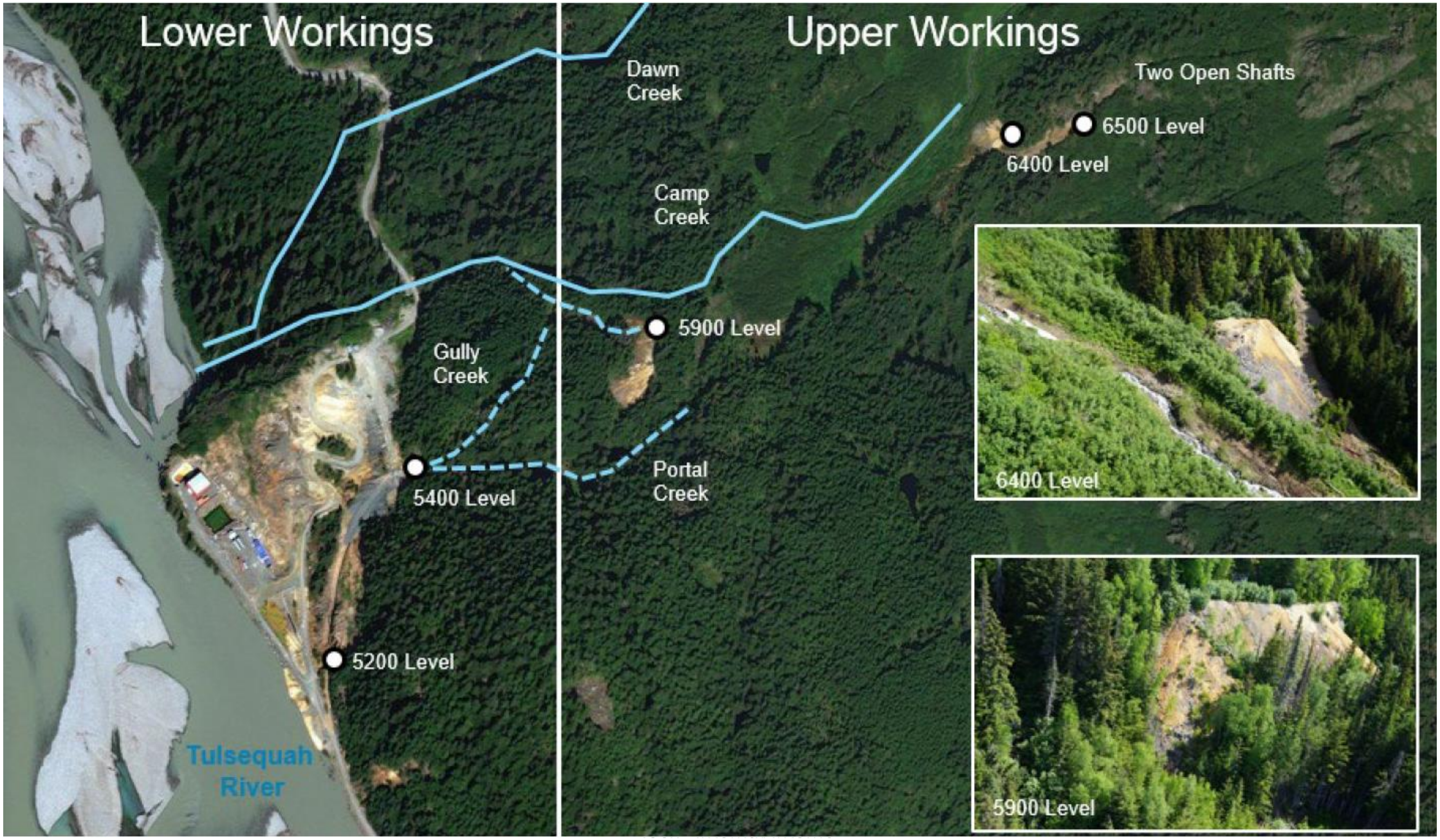
MINE WORKINGS



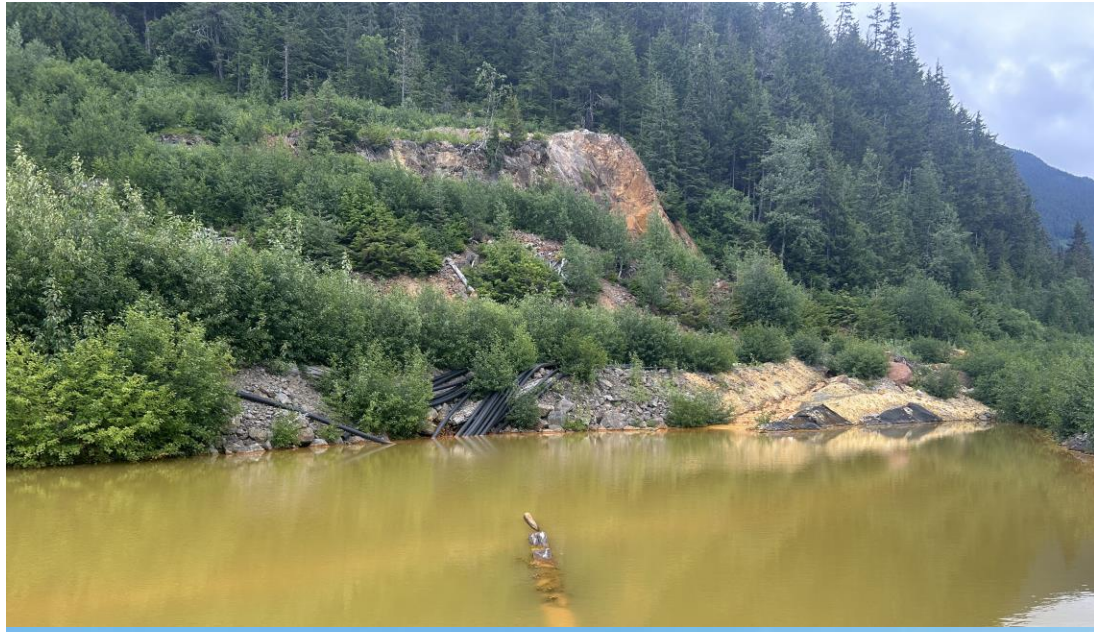

2019
Ore Storage
5400 Level
Waste Rock
Non-PAG Bedrock
ATP
PAG Bedrock
Waste Rock
Fuel Storage
Hazardous Wastes
5200 Level
Exfiltration Pond
and Spillway
Tulsequah River
Waste Rock

WATER QUALITY

- Water from UG and waste rock dumps is acidic
- High concentrations of Al, Cd, Cu, Fe, Zn.
- Elevated concentrations of As, Pb, SO_4

Impact:

- For some metals, higher concentrations than background seen up to 3km downstream
- Monitoring by USGS and DEC to date shows concentrations of metals in AK consistent with natural levels anticipated to be in the watershed.
- Discharge area is expected to become better salmon habitat as glacier retreats.



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TULSEQUAH CHIEF OVERVIEW

Complicating factors to planning and remediation:

- Critical Infrastructure in disrepair or not functioning at all
    - Bridges and culverts, airstrip, WTP, historic camp
- Isolated site location
    - Air access only (Twin Otter, Caravan, Helicopter)
    - Barging may be option in future
- No access road to upper workings
    - Helicopter access only
- Weather
    - Frequent fog, low cloud ceiling
    - Large snowfall during winter
- Seasonal jökulhlaup (glacial flood events)
- Teck has no tenure, mine permit, asset ownership

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TULSEQUAH CHIEF MINE

Remediation Planning

- **Shared Priorities:** TRTFN, Teck, and Province of BC agreed on key priorities for a detailed remediation plan and formalized in a Memorandum of Understanding (MOU) signed in September 2024.
- **Collaborative Work Plans:** Teck and TRTFN worked together to prepare the 2024 and 2025 field season plans, implemented from early May to late September each year.
- **Field Season Goals:** Collect critical data to guide preparation of the remediation plan, focusing on:
  - safe site access,
  - underground assessments,
  - water management and monitoring,
  - mined rock,
  - environmental considerations, and
  - waste management.

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PROGRESS MADE DURING 2024 AND 2025 FIELD SEASONS

Safe Access

- Maintain safe, reliable access to site
- Re-build temporary camp facilities to support fieldwork
- Conduct site visits with TRTFN, BC
- Repair bridge decks for bridges 8 and 9.

Underground (U/G)

- Secure underground entrance and workings
- Advance drone investigations of underground

Water Management and Monitoring

- Install temporary sediment control measures
- Collect water quality, sediment quality, benthic invertebrates, and fish, and flow data from the mine water and the Taaltsuxéi Héen watershed

Mined Rock

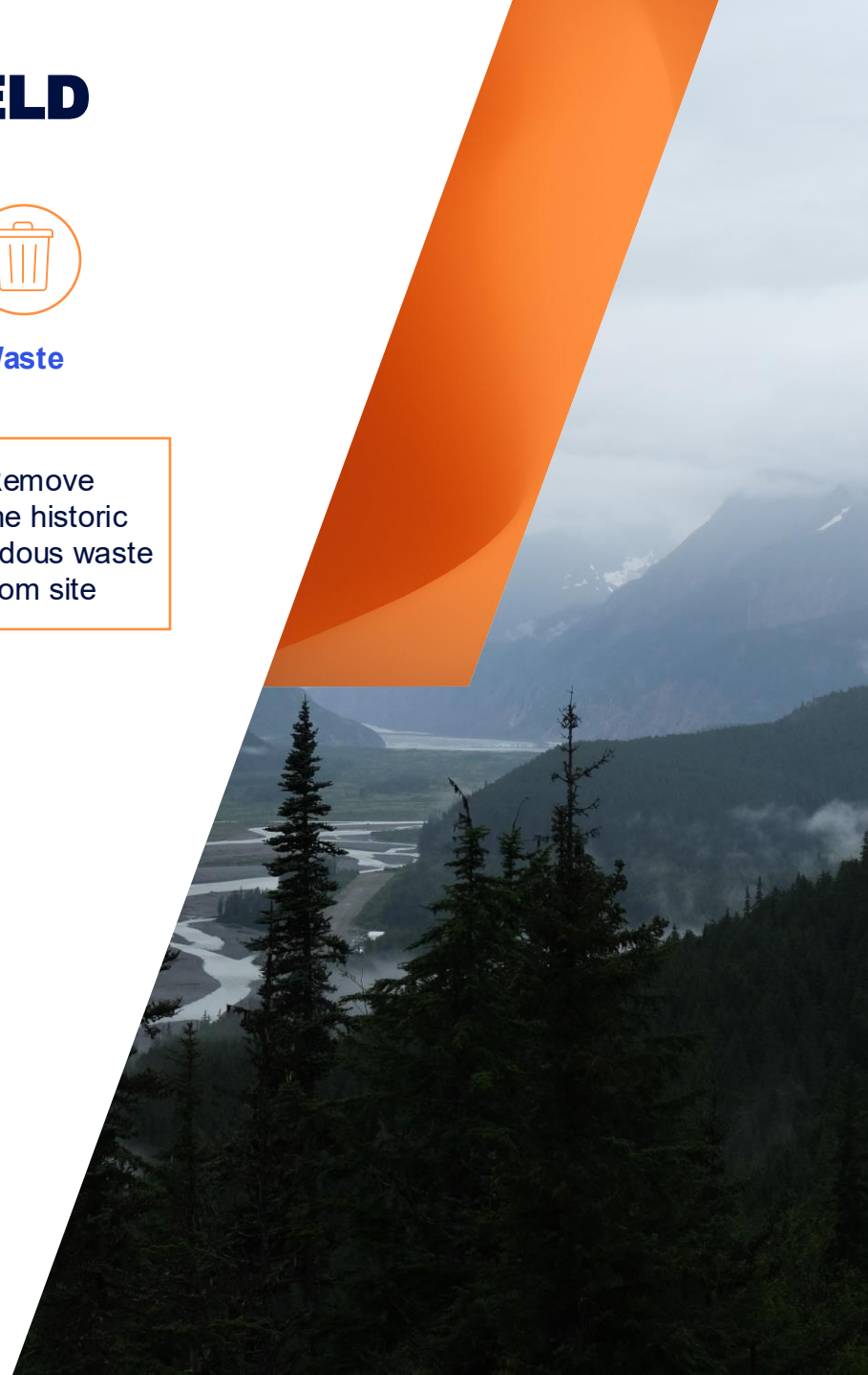
- Quantify waste rock and ore stored on surface

Environment

- Clean up and assess existing water treatment plant
- Understand what wildlife is in the area
- Check soil for contamination around site
- Understand potential changes in climate

Waste

- Remove some historic hazardous waste from site



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SAFE ACCESS

Challenging Site Access

The remote mountainous terrain limited access to the mine, requiring air transport via helicopters and fixed-wing aircraft.

Airstrip Maintenance

- Cleared large stones and debris
- Cut brush
- Compacted

Weather station

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SAFE ACCESS

Temporary Accommodation Setup

2024 investigation revealed that the historic Shazah Camp was:

- Heavily impacted by mould
- Not compliant with electrical and camp codes

A temporary 20-bed camp was established in 2024 and 2025 to support field activities after the historic camp was deemed uninhabitable.

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SAFE ACCESS

Safety and Infrastructure Improvements

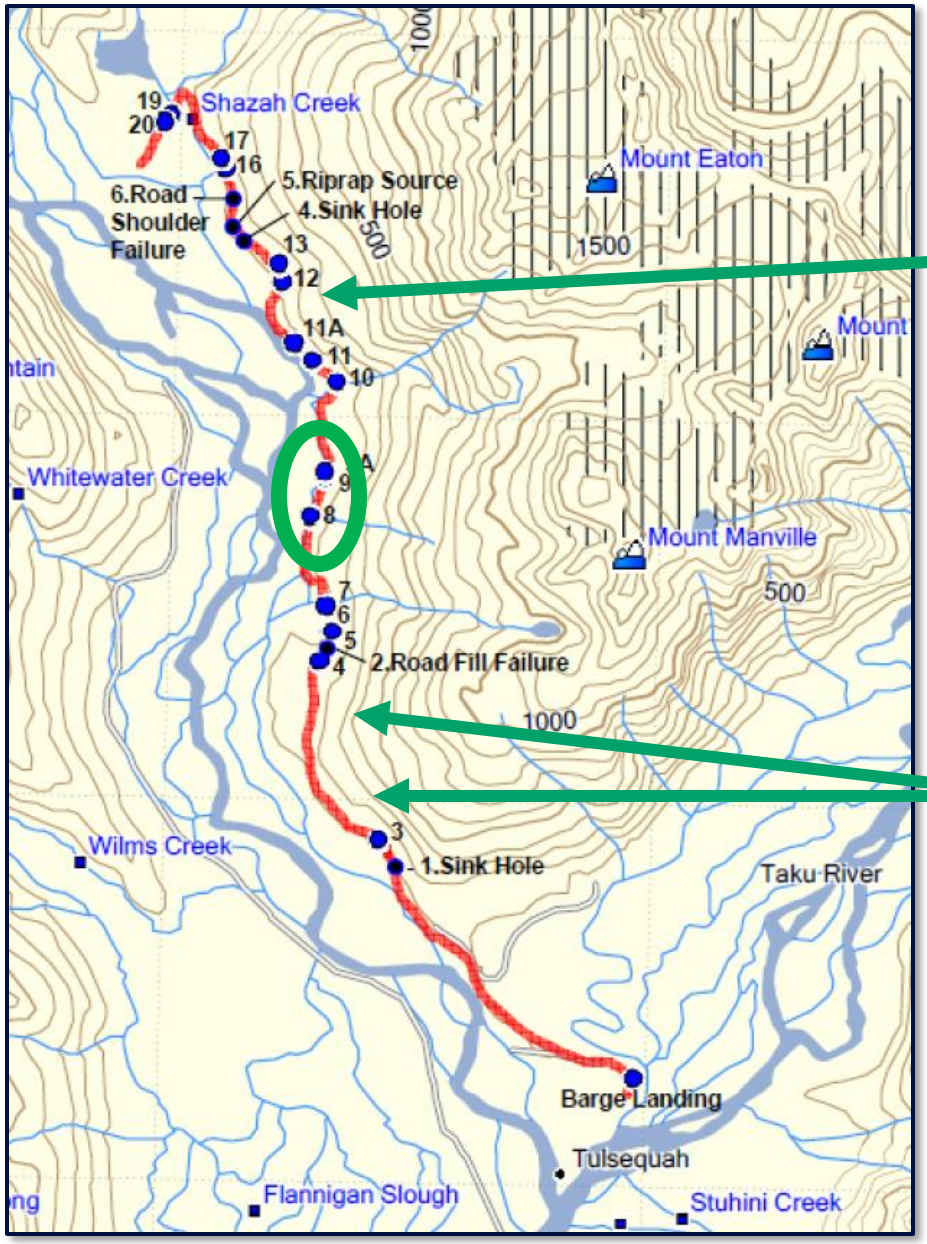
Helipads constructed at upper portals to allow access.

Loose rocks scaled and removed from slopes near portals, camp, and work areas.

Infrastructure Maintenance:

- Two rotting bridge decks replaced to allow access to southern end of site.

BRIDGE REPAIR



Mine workings

Potential riprap and cover material

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Before

After

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UNDERGROUND

Mine Safety Enhancements

Teck improved safety by:

- clearing debris,
- replacing timber, and
- reinforcing key mine levels to prevent cave-ins and hazards.

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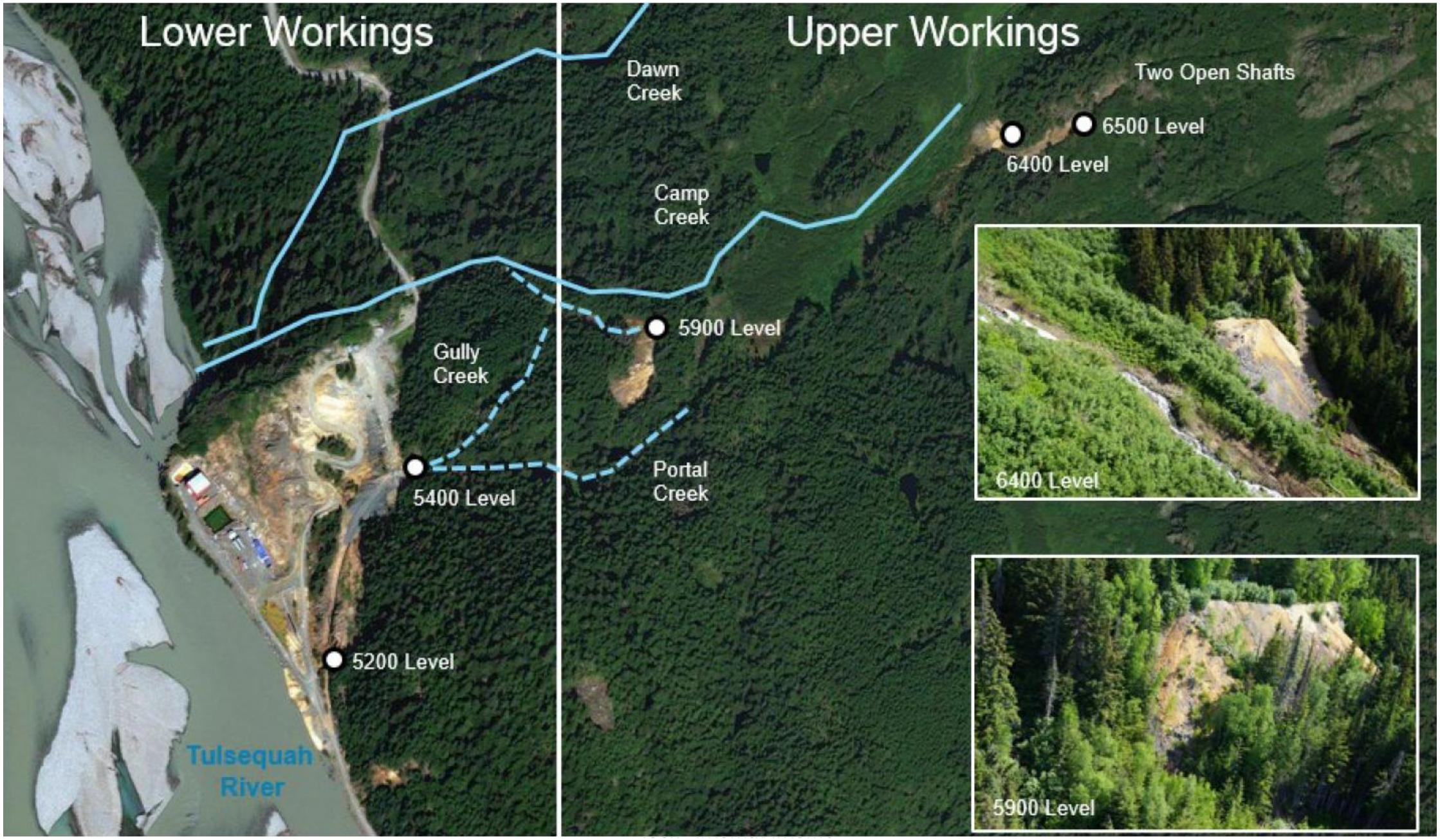
MINE WORKINGS



UNDERGROUND

2024 and 2025 Drone Surveys:

- Conducted in 5200, 5400, 5900, and 6400, and 6500 Levels.
- 5200 Level dam observed retaining water but past design life—potential safety risk.
- Data will inform engineering for safe access.

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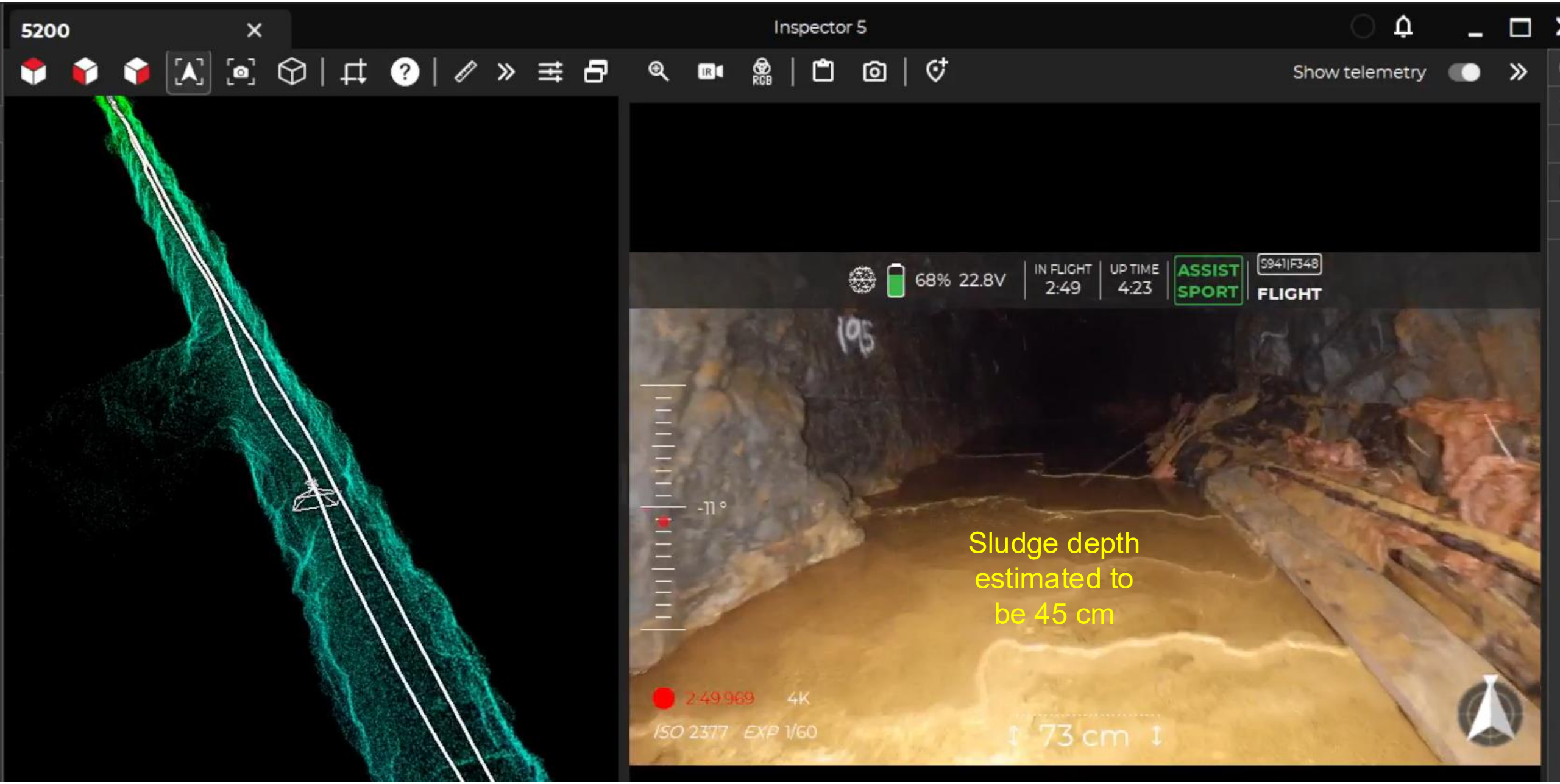
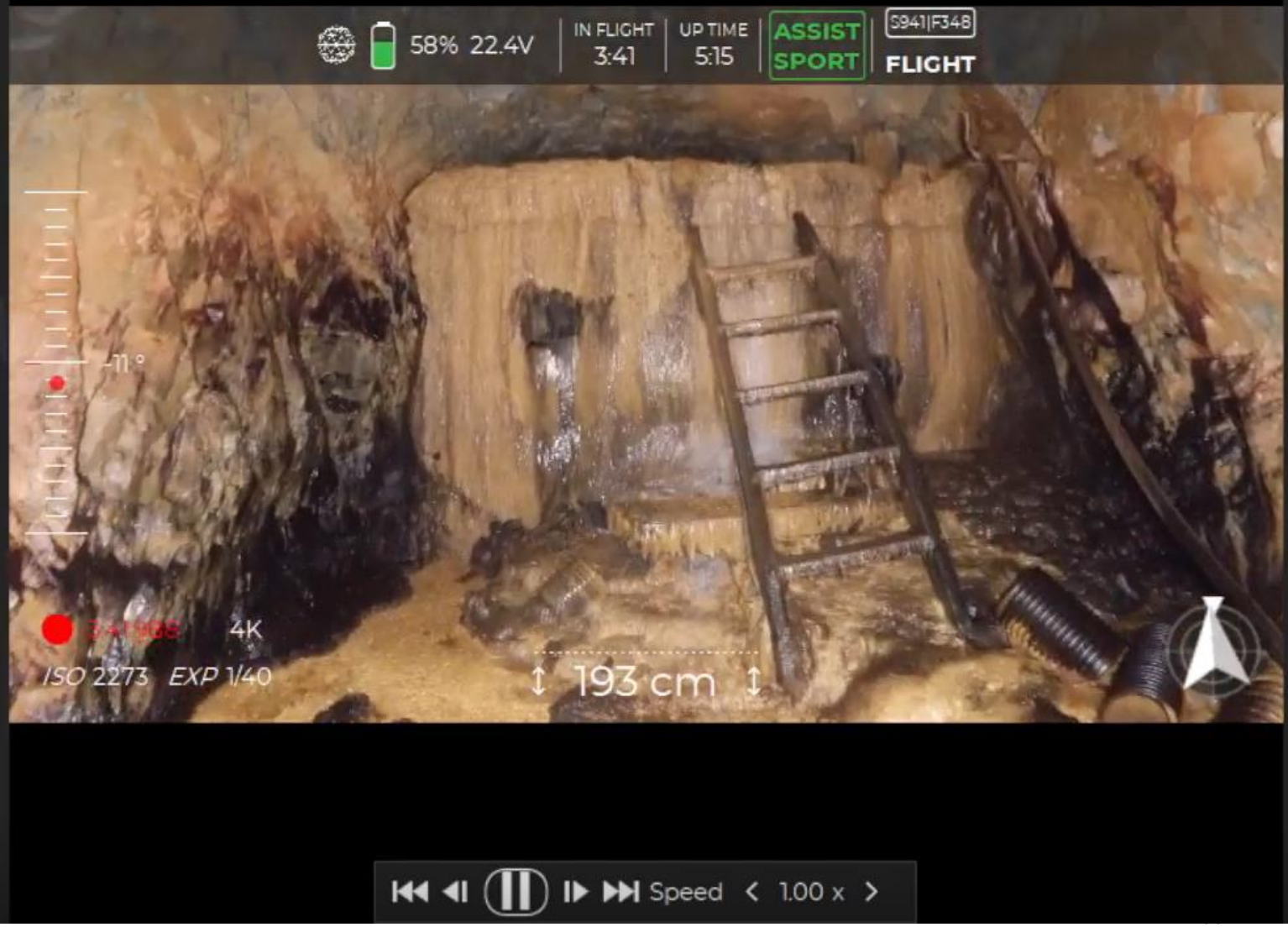

5200
Inspector 5
Show telemetry
68% 22.8V
IN FLIGHT
2:49
UP TIME
4:23
ASSIST
SPORT
S941|F348
FLIGHT
-11°
Sludge depth
estimated to
be 45 cm
2:49 969
4K
ISO 2377
EXP 1/60
73 cm

5200 L Portal Dam at 392m



UNDERGROUND

2025 Underground Stabilization Work:

- 5400 Level: Debris cleared, timber replaced.
- 5900 Level: Reinforced with timber and bolts.
- 6400 Level: Loose rock removed.

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May 2025

August 2025

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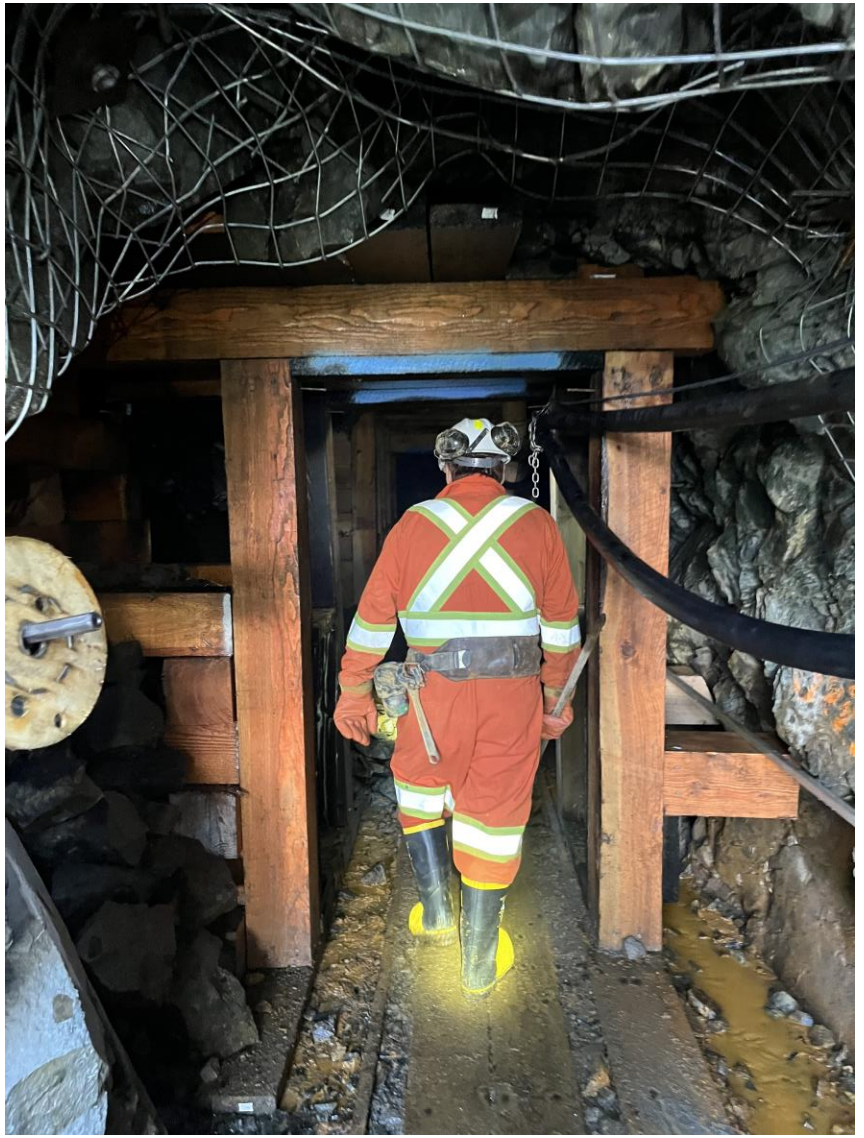

MINED ROCK

Quantify waste rock at surface

- 2024 Surface drone survey

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WATER MANAGEMENT

Clean and inspect existing temporary water treatment plant

Assessed potential refurbishment requirements

Sediment control

Aquatic Monitoring Program

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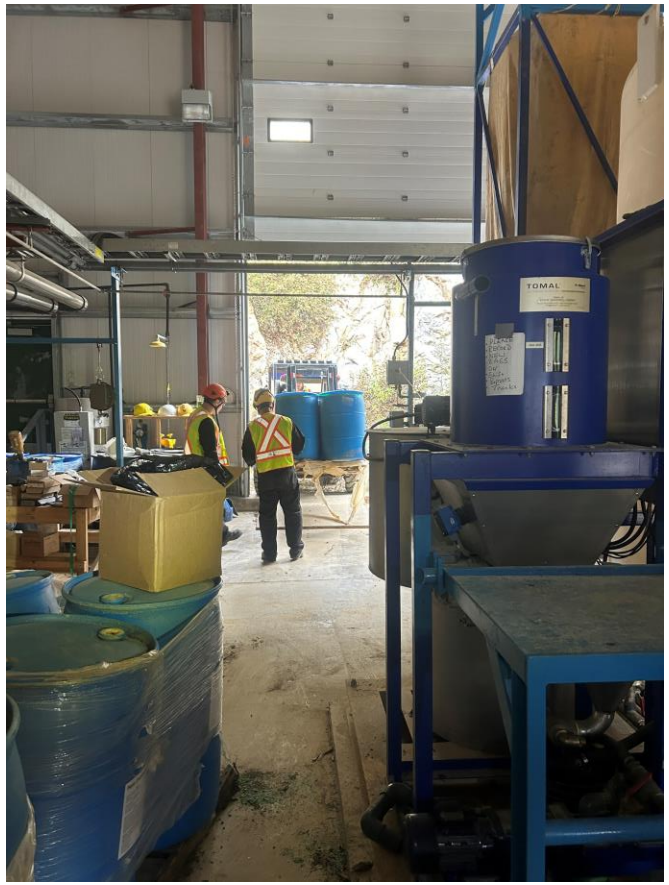
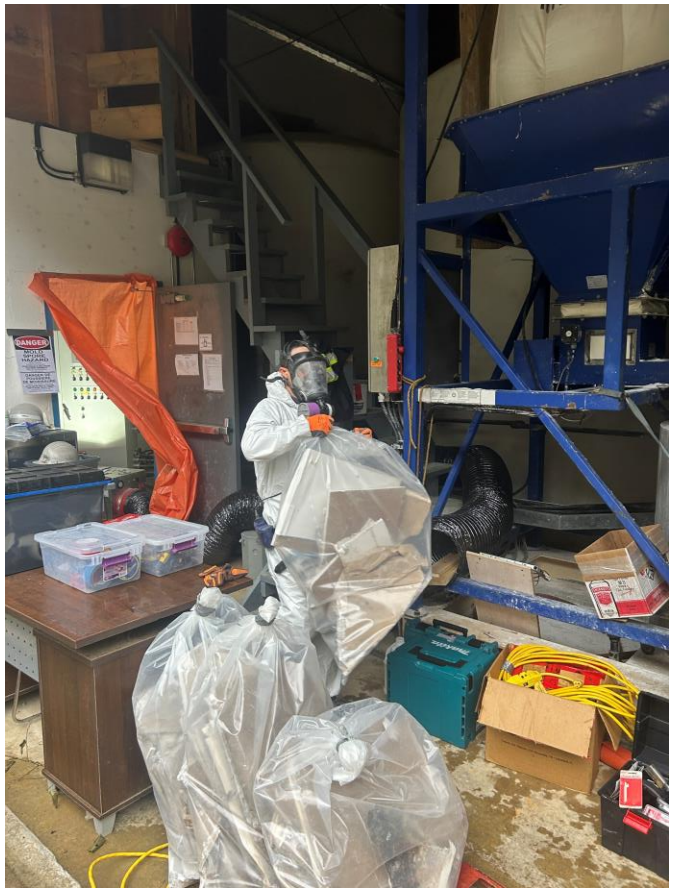
WATER TREATMENT PLANT (WTP)

CLEARING WTP



REMOVING BLACK MOULD



WATER TREATMENT PLANT ASSESSMENT

ASSESSING PIPING

ASSESSING PLC PANEL

WATER MANAGEMENT AND MONITORING

Sediment Control:

- Fencing and straw wattle installed at portals to reduce sediment load to river while underground work occurring.

- Fencing removed post-season to prevent spring runoff impact.

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WATER MANAGEMENT AND MONITORING

Sampling:

2024: AEMP (Water quality, sediment, benthic invertebrates, slimy sculpin)

2025: Monthly water quality sampling at 36 valley locations. Sediment samples collected in June and September.

TRTFN participated in 2024 and 2025

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AQUATIC EFFECTS MONITORING

Kick Netting

Water Sampling

HOW DOES THE MINE AFFECT SALMON IN THE TAALTSUXÉI HÉEN?

Acidic Water Formation:

- Sulphide-bearing rocks + air + water = acidic water in mine tunnels.
- Acidic water dissolves metals (i.e., copper, iron), which is carried downstream.
- Most water flows to water management pond, overflows into river.
- **Potential impact on salmon:**
  - High metal levels can affect survival and navigation.
  - Acidic water can harm insects & habitats for feeding/spawning.

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HOW DOES THE MINE AFFECT SALMON IN THE TAALTSUXE̲I HÉEN?

Results from Environmental Monitoring

- **Elevated Metals**: higher metal levels in water and sediments up to 3 km downstream, beyond that, conditions normalize.
- **Salmon:**
  - Adult salmon migrating past the mine unlikely to accumulate metals.
  - Habitat use within 0-3 km would increase if water impacts removed.
- **Food Availability:** Aquatic insects reduced within 0-2 km downstream - less food for fish.

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HOW DOES THE MINE AFFECT SALMON IN THE TAALTSUXÉ̲I HÉEN?

Future Trends

- Glacier retreat – river becomes warmer, clear, more vegetated; better salmon habitat.

- Mine remediation will benefit current & future salmon populations.

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ENVIRONMENT

Bat Monitoring:

- Equipment installed at portals to detect bat roosting/hibernation.
- Monitoring to continue for about 18 months to inform planning for remediation of underground.

Climate Change Studies

- Focused on future temperature, rain, and snow trends.
- Results expected end of 2025 to guide long-term engineering solutions.

ENVIRONMENT

Soil Sampling:

- Conducted from airstrip to barge landing to assess possible contamination from historic mine activities.

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WASTE

2025 Legacy Waste Removal:

- 253 fuel drums
- 106 vehicle batteries
- 28 bags of bottles/cans

2024 and 2025 Waste:

All newly generated waste removed from site.

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2026 PROPOSED PLANS

Safe Access

- Maintain safe, reliable access to site
- Re-build temporary camp facilities to support fieldwork
- Conduct site visits with TRTFN, BC
- Repair bridge 8 abutment and reinforce north end of airstrip

Underground (U/G)

- Secure underground workings
- Identify possible locations for plugs

Water Management and Monitoring

- Assess options for mobile water treatment unit
- Install temporary sediment control measures
- Collect water quality, sediment quality, aquatic insects, and flow data from the mine water and the Taaltsuxéi Héen watershed
- Develop computer model for mine water discharge

Mined Rock

- Quantify the geochemistry of waste rock and ore stored on surface

Environment

- Understand aquatic risk to life in Taaltsuxéi Héen
- Understand what wildlife is in the area

Remediation Planning

- Draft Remediation Plan with updated Options

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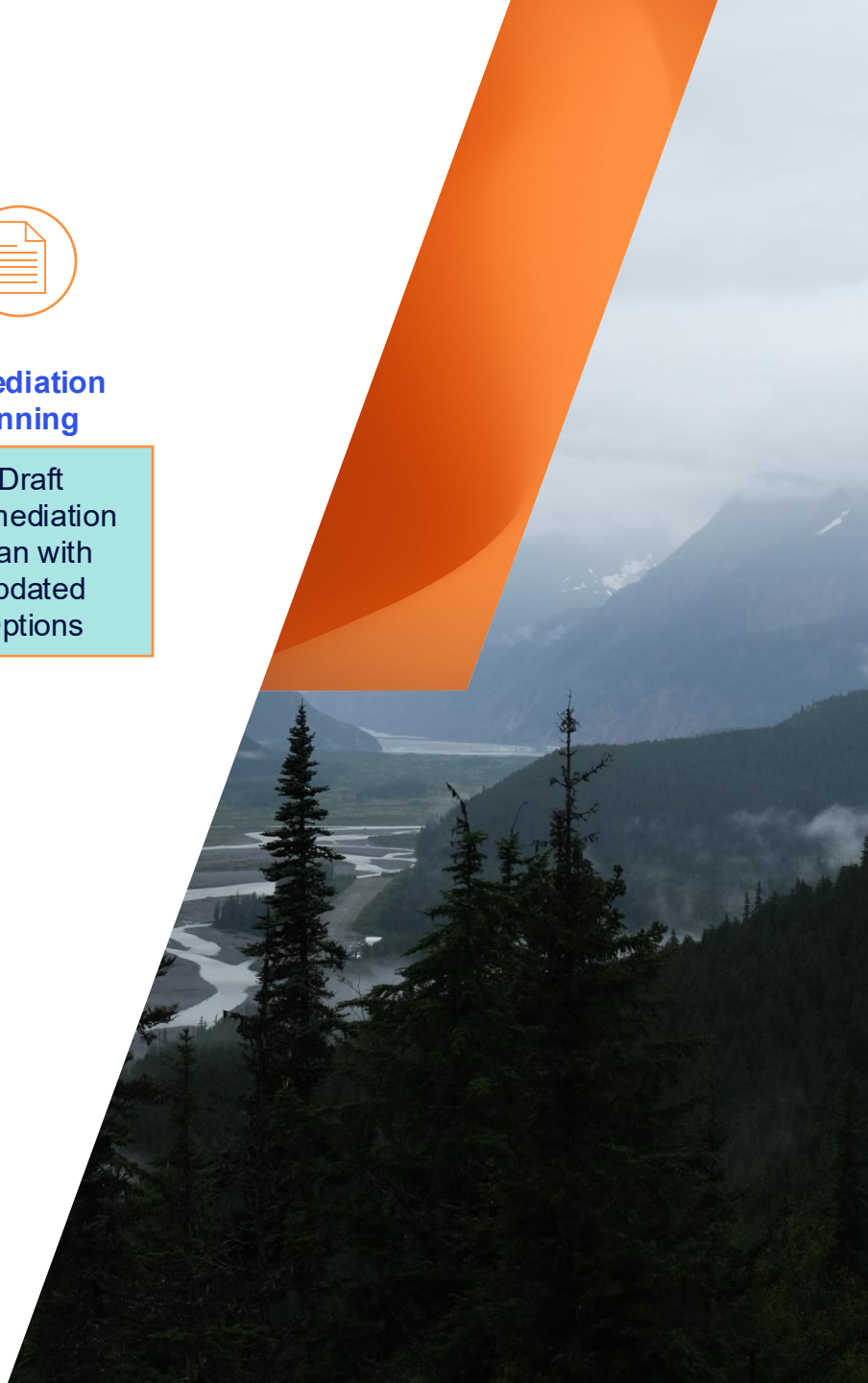
new



NEXT STEPS & CONCLUDING REMARKS

Teck and TRTFN will continue collaboration on remediation planning:

- Plan 2026 field season
- Review information from technical reports
- Renew regulatory approvals
- Advance community engagement efforts

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SEND YOUR QUESTIONS

Go to
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Enter passcode

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STAY CONNECTED

Thank You for Joining Us

We appreciate your participation in today's webinar and hope the information shared was valuable.

For questions on remediation planning, field activities and collaboration between Teck & TRTFN, please contact us at:

Tulsequahchief@gov.trtfn.com

For questions on regulatory approvals, bonding, and provincial consultation, please contact BC Ministry of Mines & Critical Minerals

Andrew Rollo
Executive Director, Tulsequah Reclamation

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THANK YOU