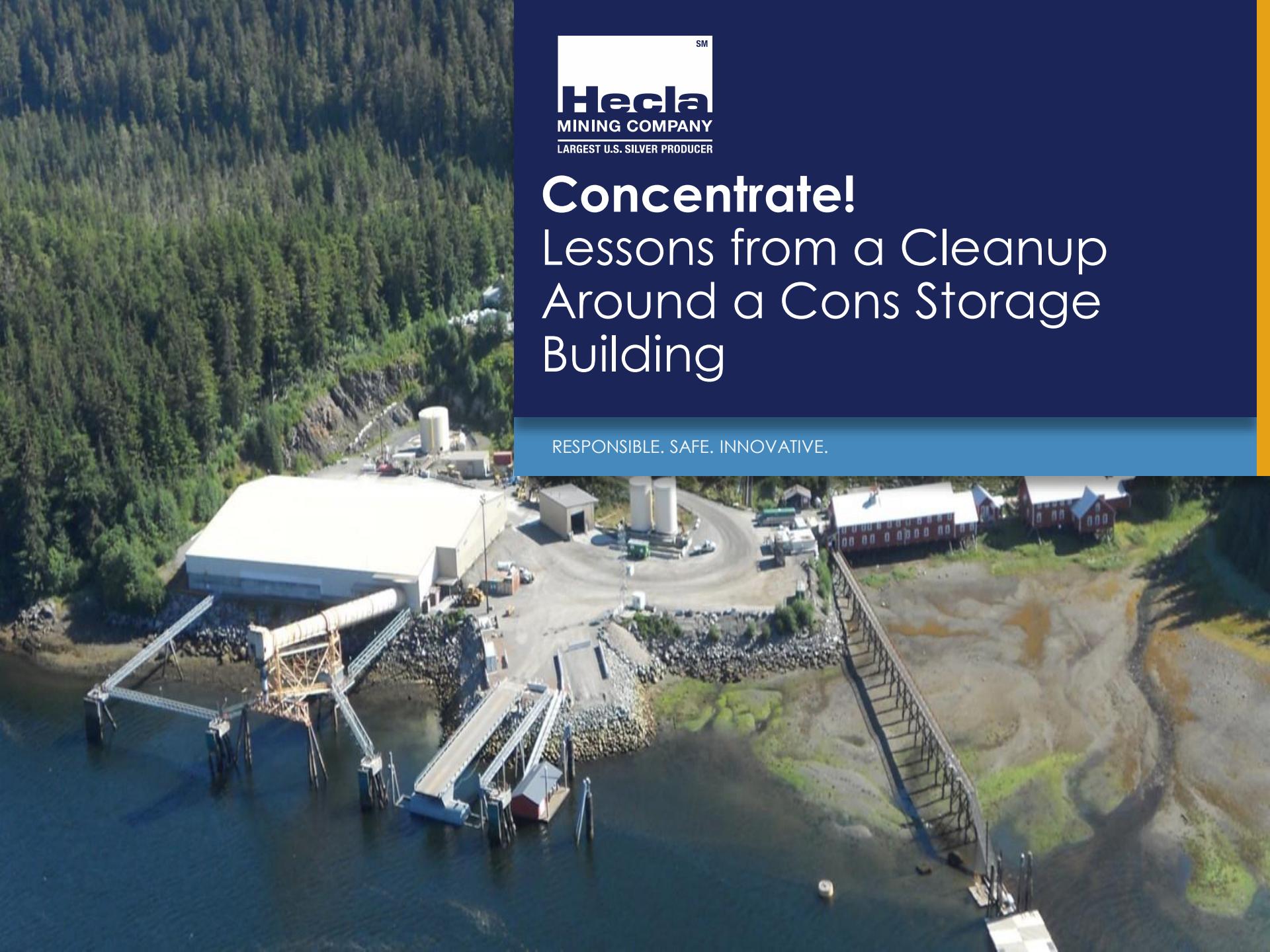




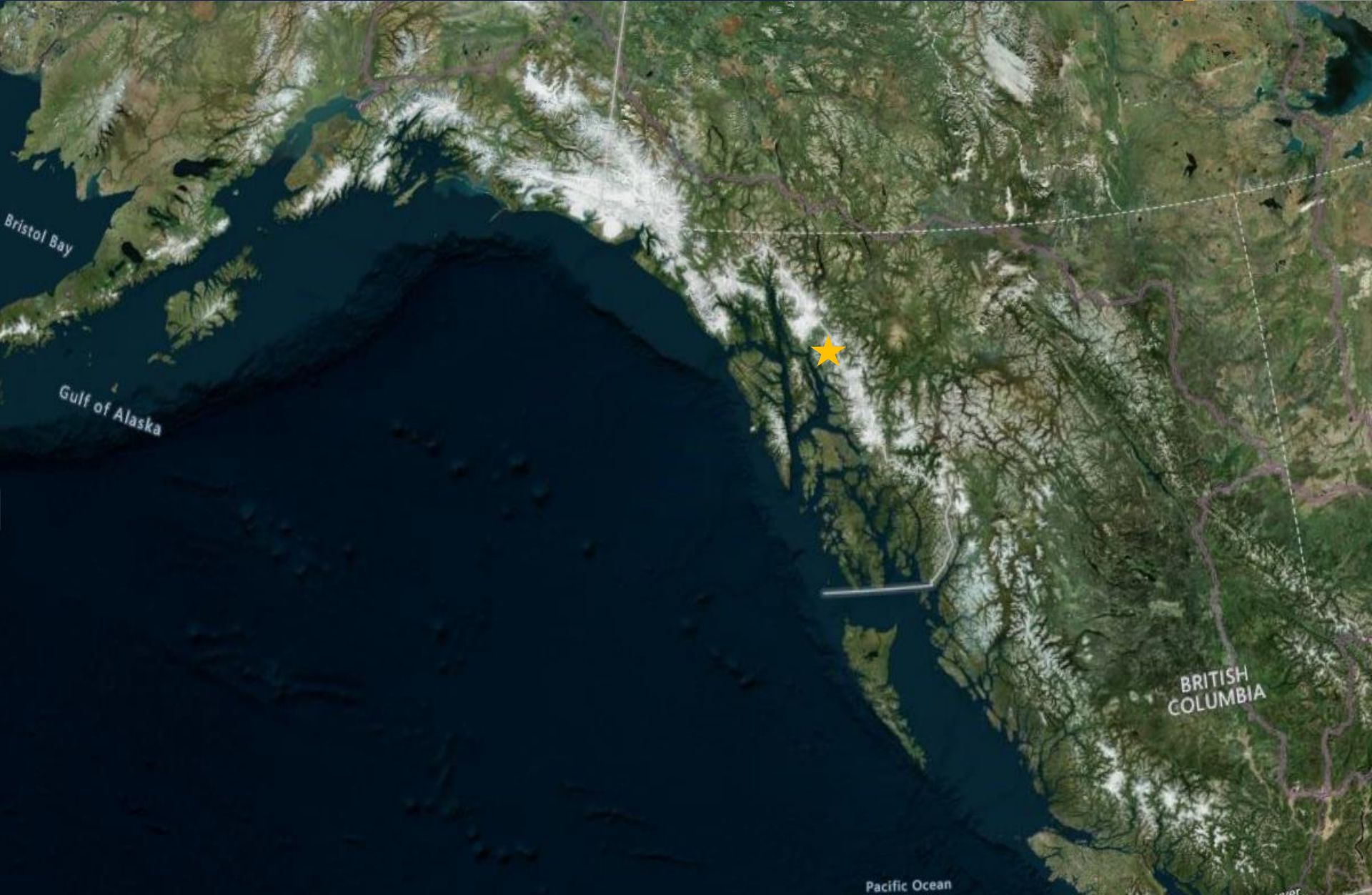
Concentrate!

Lessons from a Cleanup Around a Cons Storage Building

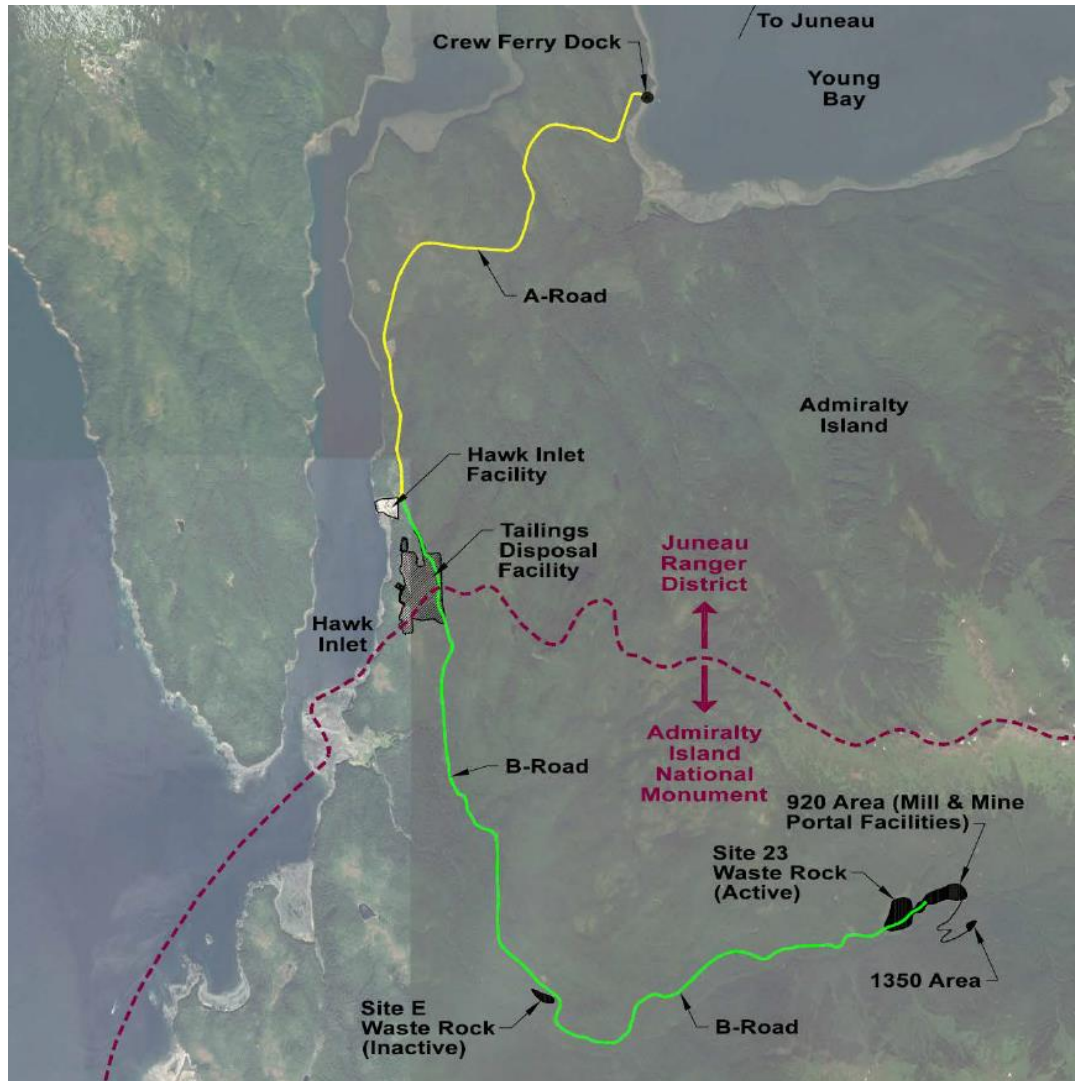
RESPONSIBLE. SAFE. INNOVATIVE.



Mine Location



Facilities Layout



Hawk Inlet Facility



Concentrate Storage Building

October 2024



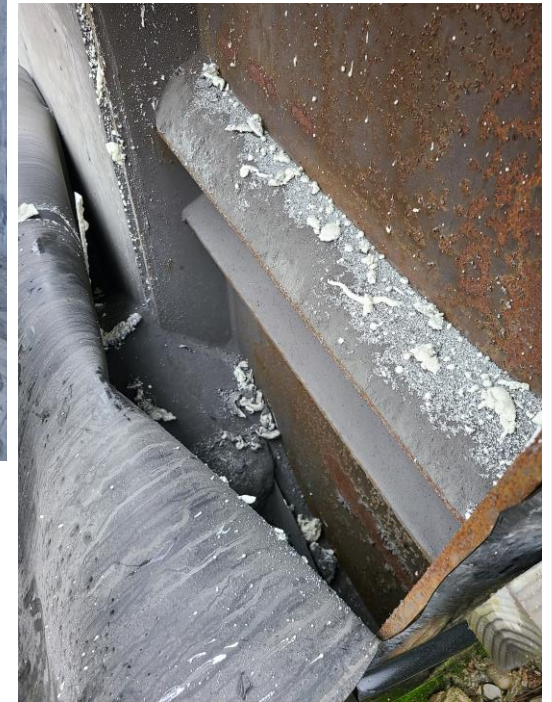
Past Contamination

October 2024



2019 Contamination Event

October 2024



2019 Contamination Event

- **Resulted in EPA NOV**
- **Involvement of both EPA and State of Alaska**
 - Cleanup as part of consent order
- **Cleanup Process**
 - Characterization
 - Cleanup
 - Repeat as necessary



This is an aerial picture of the Hecla Greens Creek Mine taken in May 2023. (Clarise Larson / Juneau Empire File)

ADVERTISEMENT

Hecla Greens Creek Mine
agrees to \$143K fine after 2019

Cleanup: 2019-2021

- **Initial Characterization Sampling**
 - North, South, East
- **Removed Visible Concentrates**
 - 1.5 cubic yards
- **Plan to seal building envelope**
 - Spring 2020...



Cleanup: 2019-2021

- **Sealed Building Envelope**
- **Initial Excavation**
 - Soil sampling
 - Additional excavation
- **CSB Roof Replacement**
 - Additional excavation delayed
- **Environmental Consultant**



Cleanup: 2022-Present

- **Consultant Visit**
- **ADEC requested additional characterization**
 - Agreement reached to include west side of CSB
- **Workplan approved in May 2023**
- **READY SET GO!**



Cleanup: 2022-Present



Cleanup: 2022-Present

- **Not impacted by release**
- **Mostly boardwalk or concrete**
- **Two doors to control room**
 - Highest concentrations by doors/conveyor



Cleanup: 2022-Present

- Supply Logistics!
- Half Highs?
- Super Sacks?
- Where to FIND?
- How to keep Dry?
- Where to store?
- Reduce Volume?
- Tight spaces!
- Tracking of Concentrates!



Cleanup: 2022-Present

October 2024



Cleanup: 2022-Present

October 2024



Cleanup: 2022-Present

October 2024



Cleanup: 2022-Present

October 2024



Knowledge Dump!

- **Supply chain issues are not going away**
- **Inspections MATTER!!**
- **Housekeeping should not be overlooked**



Moving Forward

October 2024

- **Monthly inspections of the CSB**
- **Boot vacs**
- **Restricting access**





THANK YOU

RESPONSIBLE. SAFE. INNOVATIVE.