SUBLATUS

REMTECH 2026 · INDIGENOUS PANEL

Two Northern Projects

Mount Nansen Mill Demolition, Yukon
Baker Lake ISCO Remediation, Nunavut



Andrew Beres — Director of Operations
Tony Ciarla — Executive Vice President
Sublatus Inc.

THE PARTNERSHIP

We were introduced to the local First Nation the day the contract was signed — before the work itself even began.

That early introduction set the tone: consistent, ongoing communication with the Nation from day one, carried through the life of the project. We strive to collaborate to ensure everyone's involved and able to express needs and wants as well as offer local knowledge.

Mount Nansen was built on three relationships

THE COMMUNITY

Local First Nation

- First Nation partner; the mine sits on its traditional territory
- Local community members on the crew, with jobs and training for citizens
- Site maintenance personnel, including camp setup .

Opened collaboration on upcoming projects

PARTNERS & SUBCONTRACTORS

One coordinated contractor team

- Sublatus built and managed specialists in hazmat abatement, industrial cleaning, waste, air monitoring and transport.
- Worked alongside Carmacks Development Corporation on the mill demolition.

Shared plans for a remote, high-risk site

THE OWNER

JDS Energy & Mining (MNRLP)

- Contracted by JDS for the Mount Nansen Remediation Limited Partnership, funded by CIRNAC
- Open, regular reporting on safety, schedule and cost

Delivered safely, on schedule and within budget

HOW WE WORKED

1 Build one team
Owner, specialists and local crew under one plan

2 Communicate openly
Open updates to all partners and subcontractors

3 Deliver together
Multiple waste streams including Arsenic, managed as one Team

4 Carry it forward
Success with the First Nation leads to new work

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The project team MNRLP

FUNDER

Crown-Indigenous Relations and Northern Affairs Canada
Funds the clean-up and holds the site liability

Hon. Rebecca Chartrand, Minister of Northern and Arctic Affairs

SITE LEAD & PARTNER

Mount Nansen Remediation Limited Partnership
Joint venture of JDS Energy & Mining and Ensero Solutions; manages the site since 2021

Jim Harrington, Project Director · Darren Cowan, Project Manager

Local First Nation
Partner in site management; the site is on its traditional territory

MILL DEMOLITION

Carmacks Development Corporation
Awarded a mill demolition work package

SUBLATUS Environmental
Awarded mill demolition work package (including abatement and scrap management)

OVERSIGHT

Yukon Environmental and Socio-economic Assessment Board
Guides the demolition and remediation work

Source: Crown-Indigenous Relations and Northern Affairs Canada, “Mill Demolition Marks Progress Toward Mount Nansen Site Clean-Up,” news release, 15 October 2025

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The project

Hazardous materials abatement and full demolition of a legacy gold mill facility at a remote northern site — completed under a federal remediation program.

Carmacks, Yukon, traditional territory of the Little Salmon/Carmacks First Nation — Legacy Goldmine.

Industrial cleaning

Air monitoring and controlled removal of hazardous material
Tank Cleaning
Arsenic Dust Cleaning
Packaging & transporting of waste to regulated facilities

Controlled demolition

Full teardown of the legacy mill structure
Segregation of waste streams ie. Debris/Recyclables/Concrete

Regulated disposal

Transport and disposal of all waste streams — arsenic, tank slurry, standard construction waste to Carmacks landfill & scrap steel to recycling yard.



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By the numbers

$4M
Project value

Aug–Dec 2025
Delivered in five months

900+ T
Scrap metal recycled

1000 m^3
Concrete demolished

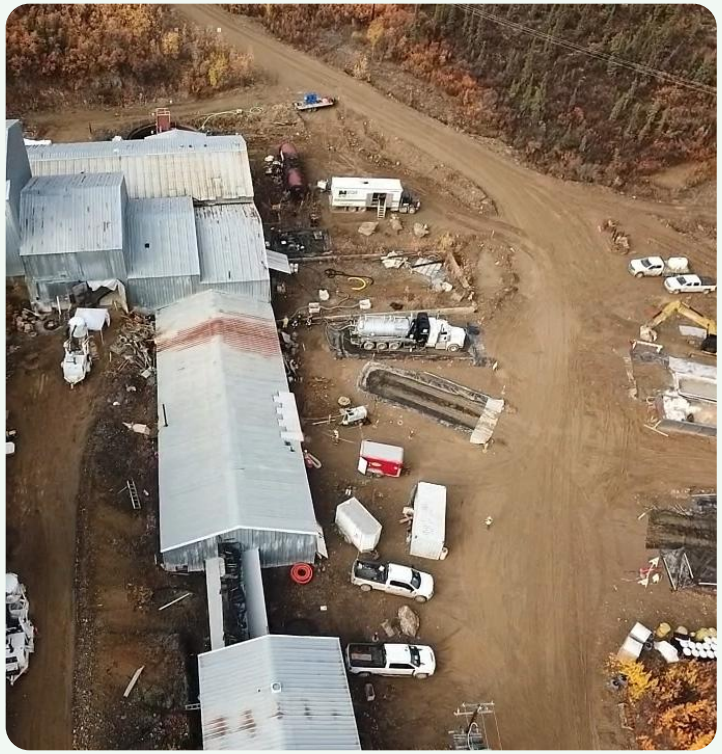
100+ m^3
Contaminated dust safely removed

On schedule.
On budget.
No incidents.

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The site, through demolition

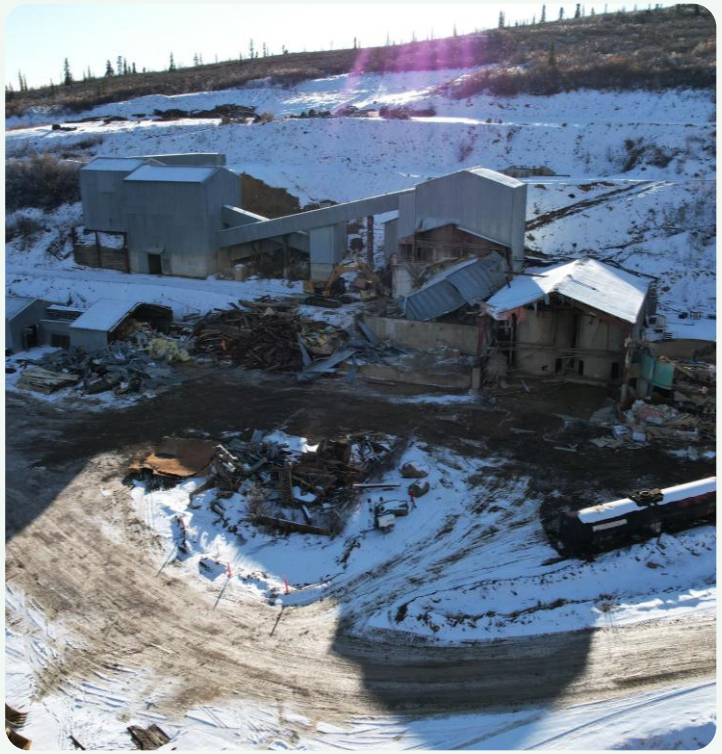
BEFORE



DURING



LATER-STAGE



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Crews on site

BRINGING DOWN THE STRUCTURE



CLEARING THE CONVEYOR LINE



Results

Project success with the local first nation has created opportunities to collaborate on upcoming projects.





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Planning ahead and constant communication kept the work on time and incident-free

BEFORE MOBILIZING

Pre-planning

- Mapped the hazards up front: arsenic, cyanide and asbestos
- Planned logistics for a remote site 60 km west of Carmacks
- Lined up specialists for abatement, cleaning, air monitoring, waste and transport

THROUGH THE WORK

Communication

- Kept the owner, First Nation and subcontractors informed as conditions shifted
- Gave the Nation consistent, transparent updates
- Shared plans kept a multi-contractor crew working as one team

On schedule
Mill demolished in the planned window

Without incident
Safe delivery on a high-risk site

Within budget
Under a federal program

Continuing to invest in the Yukon
Sublatus is investing in support and growth in the territory, and opened a Yukon office in Q4 2026.

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PART TWO · BAKER LAKE, NUNAVUT

Treating a diesel spill in place, on permafrost

IN-SITU CHEMICAL OXIDATION

Tony Ciarla — Executive Vice President, Sublatus

Delivered with TRIUM Environmental

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What happened

A heating-oil spill on May 29, 2024, migrated beneath a stilted residence in Baker Lake, NU. A remote, fly-in-only community. The diesel sits in coarse, gravelly "raft" soils above permafrost.

9,250
Peak F2 hydrocarbons, mg/kg

1,100+
Peak vapours, ppmv

78 m²
Treatment footprint

~1.5 m
Depth to permafrost



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Project Team and Partners

Project team

Baker Lake Contracting & Supplies

Pario Engineering & Environmental Sciences

Sublatus

Trium Remediation Technologies

Supply and logistics partners

A local partner contractor was critical for logistics, equipment, and materials support.

Local Partner: Baker Lake Contracting & Supplies

Inuit-owned Baker Lake firm in construction and accommodations since 1984, supporting the field program from arrival to demobilisation.

Logistics

- Received, stored and staged reagent, freight, and materials arriving by air and barge.
- Moved crew, reagents and equipment around the community.
- Sourced local mixing water, totes, drums, and import fill.

Lodging

- Housed the TRIUM and Sublatus field crew through the Sept 12–25 program.

Heavy equipment

- Excavator and operator for the ~25 m² source excavation; soil hauled to a third-party treatment cell.
- Excavated, blended and backfilled the PRB trench.



Source excavation, September 2026

Since 1984
In business in Baker Lake

14 days
Field program, Sept 12–25

2 +Equipment
Local workers on site

15
Crew nights lodged

Why treat it in place

Can't dig it up

Excavating beneath a stilted house on permafrost isn't feasible, and shipping soil out of a fly-in community would be prohibitive.

Built for the supply chain

Persulphate ships as a stable solid salt, so transport volume and risk stay low on a fly-in and barge supply chain.

Protects the frozen ground

A slow, low-heat reaction, typically under a 3 °C rise, with no heat activation needed.

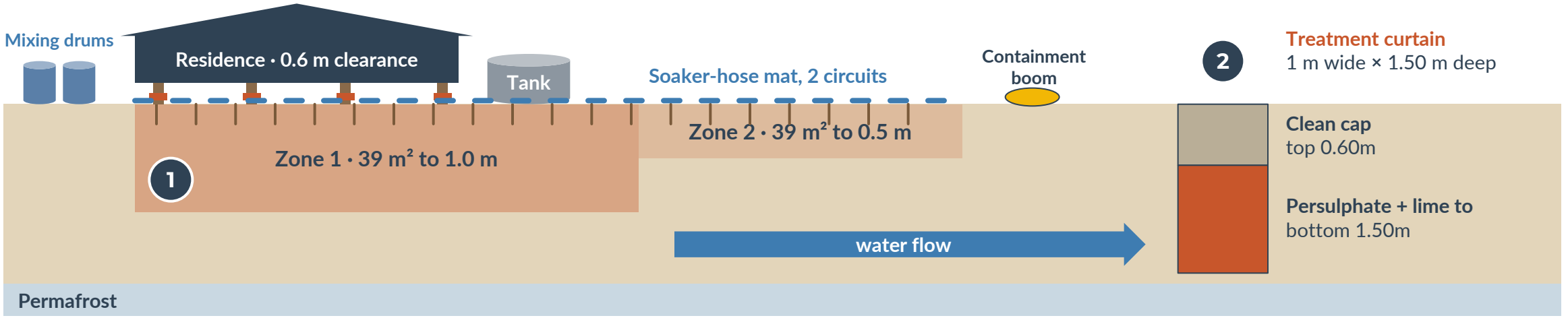
HOW THE CHEMISTRY WORKS

- **Alkaline activator:** NaOH lifts soil water above pH 10.5, activating slow-acting sodium persulphate ($Na_2S_2O_8$).
- **Radical formation:** at high pH, persulphate forms sulphate ($SO_4\bullet^-$) and hydroxyl ($\bullet OH$) radicals, both strong oxidants.
- **Attack on heating oil:** radicals break alkanes, BTEX and naphthalenes into soluble compounds, ending as CO_2 and water.
- **Destroyed in place:** no excavation under the house; by-products are low-toxicity sulphate and sodium salts.
- **Permeable reactive barrier (PRB):** sparingly soluble hydrated lime releases alkalinity slowly, activating persulphate gradually for long-term treatment.

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The Remediation Program

Two complementary in-situ treatments, plus minor earthworks — no bulk excavation beneath the residence.



1 Surface Percolation ISCO · 78 m²

- ✓ Persulphate fed by gravity through a soaker-hose mat; two circuits dosed separately from mixing drums.
- ✓ Hand-augered holes every 2 ft, 150 mm deep, speed percolation through the gravelly soil.
- ✓ Insulated tarps stop overnight frost; footings collared to keep oxidant off the wood.

2 ISCO Treatment Curtain (PRB)

- ✓ Bottom 3 ft blended with slow-release potassium persulphate and lime; top 2 ft clean cap.
- ✓ Intercepts future migration along the downgradient edge.
- ✓ Releases oxidant over several years at sub-arctic ground temperature.

Project Status and Next Steps

Field program complete · Sept 12–25, 2026

Sept 12
Reagents and crew on site

Sept 13–14
Staging and debris removal

Sept 15–17
~25 m² source excavated, soil to treatment cell

Sept 18
Treatment curtain (PRB) trench built

Sept 25
Surface percolation complete

What comes next

Oct–Nov 2026
Oxidation runs 6 to 8 weeks

Nov 2026
Pauses at freeze-up

Spring 2027
Resumes with thaw; decide on any added treatment

Summer 2027
Confirmation sampling by Pario; extra treatment if needed

Outcomes the design targets

78 m²
treated in situ, no digging under the residence

Permafrost
kept intact by a low-heat reaction

Migration
cut off by the treatment curtain for years

Long-term
monitoring by Pario

Field Work, September 2026









Thank you.

Andrew Beres and Tony Ciarla — Sublatus

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