

Truck Rollover Spill

Consultation to Co-ownership Case Study



Presentation for RemTech

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15 October 2025





Background – What Happened?

April 28, 2025

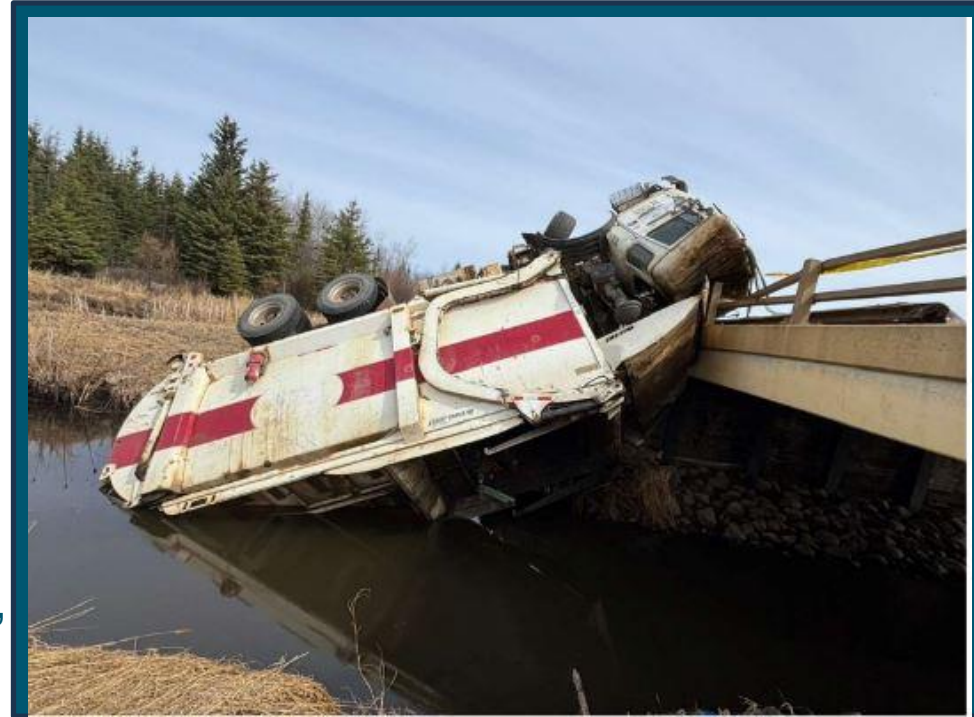
- Northern Waste Disposal garbage truck out of Red Earth rolled over 20 km east of Little Buffalo, rolled into a creek, and spilled fuel.

Traditional industry approach:

- Spill happens, insurance company hires contractors, community gets informed.

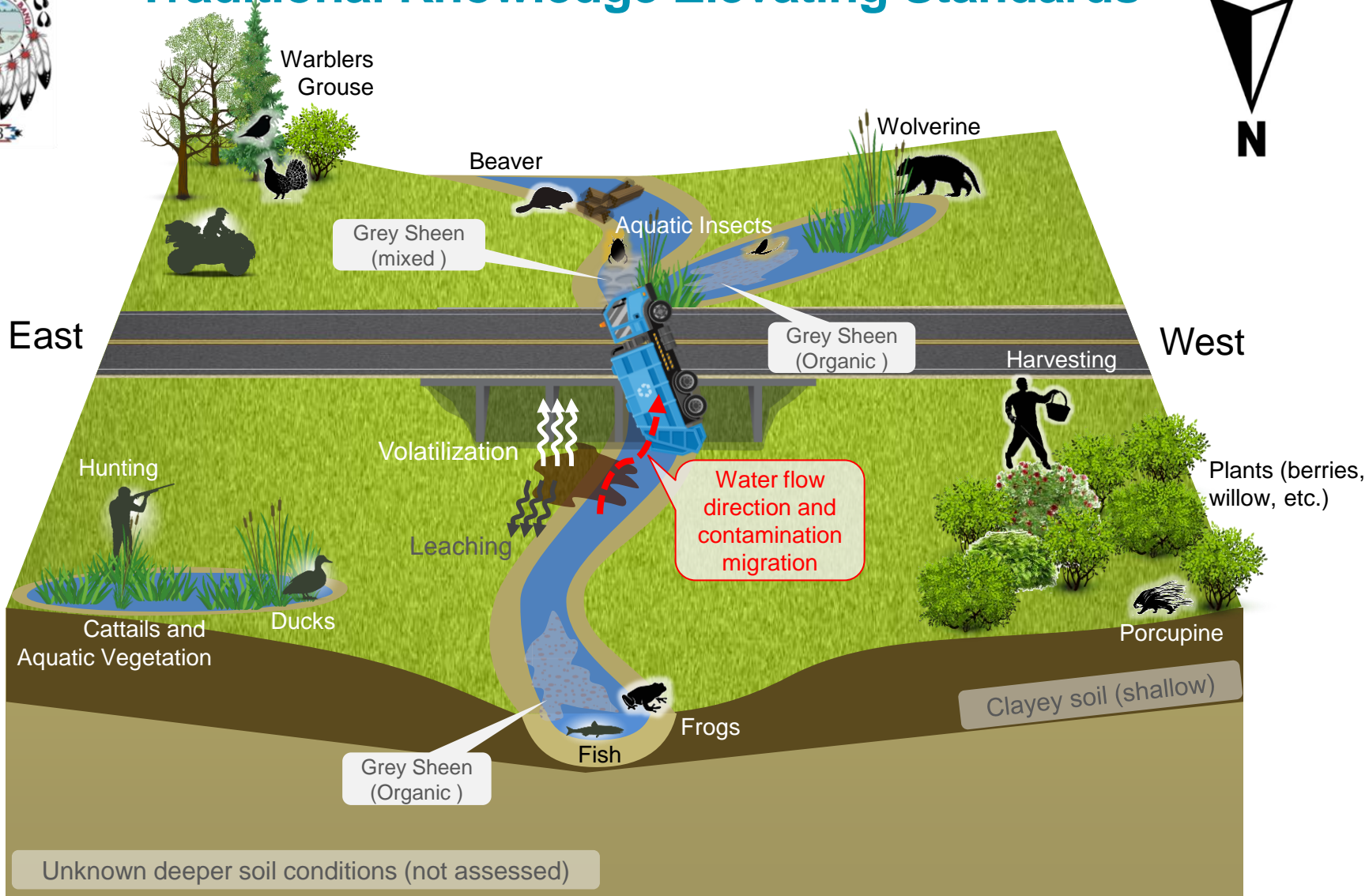
Our approach:

- **Lubicon LBV** provided ALL operational capacity - our equipment, our crews, our waste management contractors, our traffic control, our trusted partner Solstice Environmental supported by Nichol's Environmental as incident commander.





Traditional Knowledge Elevating Standards



Reclaiming Value for Future Generations

Understanding Water Sheens



Natural:
Breaks into irregularly shaped platelets, resist reforming



Petroleum:
Sheen will swirl and reform together.

Understanding Water Sheens



There are a wide variety of natural surface sheens that can be found on water. Most of these sheens are harmless and the result of naturally occurring instances. Some of these sheens are associated with poor water quality but do not pose a risk to human health.

These natural sheens are formed by bacteria that cling to water surfaces containing minerals like aluminum, calcium, iron, manganese, copper, or sulfur. The hue of the film is affected by the specific types of dissolved minerals present in the water.



SOLSTICE TIP

THE STICK SHEEN TEST

“NOT SURE WHAT IT IS?
POKE IT WITH A STICK!”

Petroleum Sheen

The majority of sheens resulting from pollution are due to petroleum products entering the environment. Petroleum products fall under a category of chemical substances composed of hydrogen and carbon (hydrocarbons), which include:

- Gasoline Crude Oil
- Diesel Fuel
- Motor Oil
- Heating Oil
- Waste or Used Oil
- Kerosene

Almost all petroleum products that leak into water will ultimately create a sheen. The formation and appearance of this sheen can vary depending on the characteristics of the spilled substance and the prevailing weather conditions. Crude oil sheens are initially black-brown in colour and, upon interacting with the environment, may change to a brown-orange tint, which can be easily mistaken for red algae blooms.



A **natural sheen** can be identified by how it fractures and remains fragmented when disturbed.



Petroleum hydrocarbons that will return to their original position after being disturbed. Refined products - like gasoline and diesel fuel - tend to spread quickly, typically forming rainbow hues that blend into a sheen.

WE ARE RECLAIMING VALUE FOR FUTURE GENERATIONS



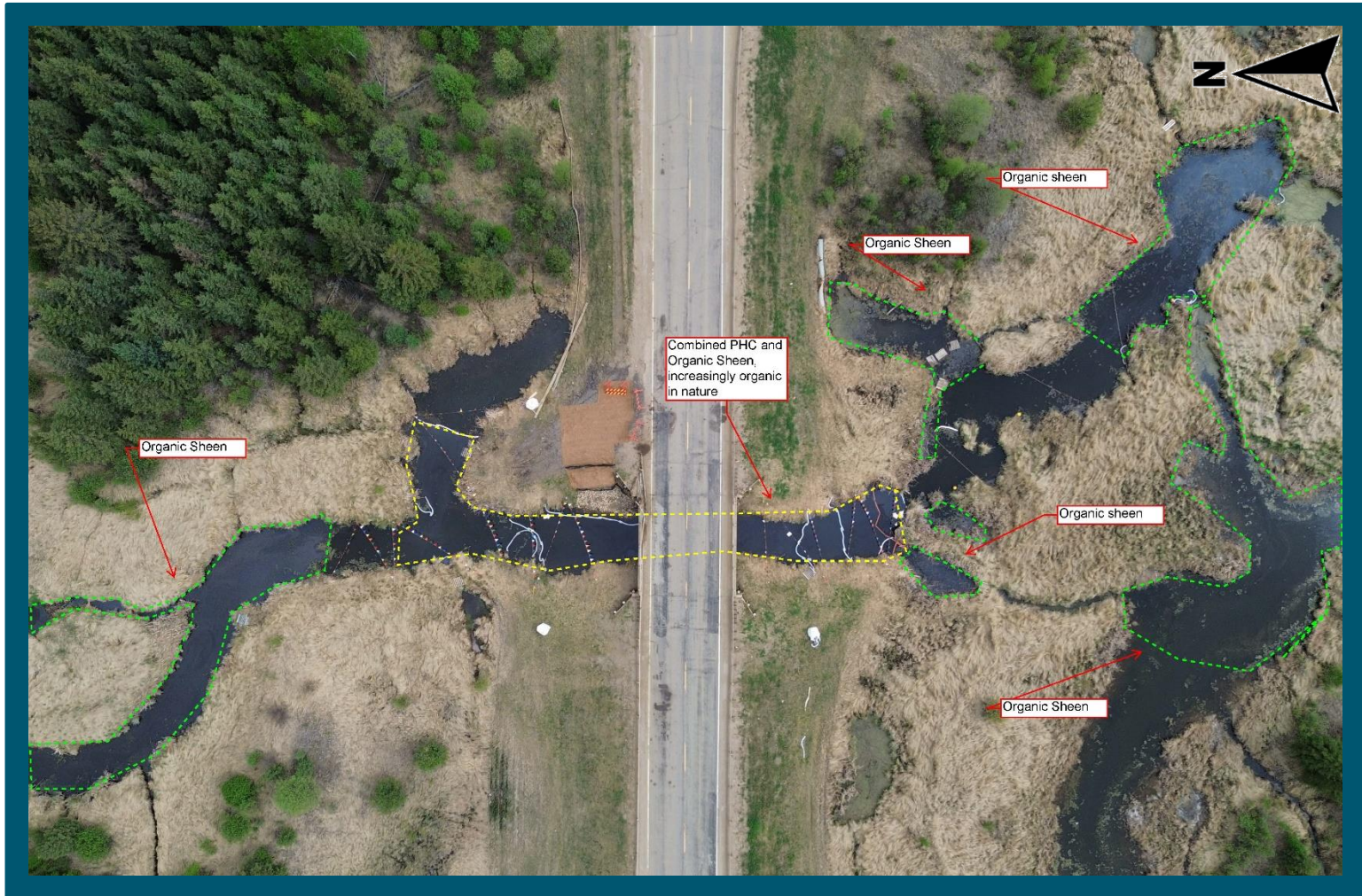
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Reclaiming Value for Future Generations



Natural Organic Sheen Vs. Hydrocarbon Sheen



Reclaiming Value for Future Generations

The Path Forward



Reclaiming Value for Future Generations

Questions?

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Thank you to Nichol's Environmental
who took the lead as incident
commanders in the field

