

# SPILL PREVENTION

*Surerus Murphy Joint Venture proactively manages the risk of spills and chemical releases. Our work is governed by a process of checks-and-balances to ensure workers are aware of the environmental hazards of a spill and through a set of meaningful and systematic steps that work intentionally to reduce the risk of a potential release.*

## **Defining a “Spill”**

A spill occurs when contaminated fluids – such as hydrocarbons, chemicals and other toxic liquids - leave the vessel in which it is contained and come into contact with land or water. Most spills are the result of one of the following lack of controls:

- Equipment failure where a component of the equipment fails to contain the fluid (e.g. a leak in a seal or a hose).
- Error in procedure (e.g. a valve is accidentally left open, and fluids are released).
- External impact (e.g. a rock strikes the under carriage of a vehicle causing a line to rupture).

**To minimize the potential for spills, the following proactive measures are regularly implemented:**

- Provide a Spill Response Plan (SRP) for each site. This Plan prioritizes spill prevention and provides guidelines for pre-use inspections and secondary containments.
- Build strategies for minimizing/preventing spills into project documents, including the Site-Specific Environmental Plan (SSEP). The SSEP guides refueling in proximity to water, how to use a refilling hose, automatic shut-off valves, and other activities involving handling hydrocarbons.
- Inspect and maintain containment devices used on Surerus Murphy jobsites, as required.
- Ensure all personnel receive comprehensive training on fueling, secondary containment, and equipment inspection during their environmental orientation. This includes instructional videos on these topics to enhance understanding and effectiveness in spill prevention.
- Use the Surerus Murphy Equipment Checklist to assist in detecting defects or damage that may result in equipment failure. Identifying the potential for equipment failure early reduces the risk of spills as well as the severity of equipment damage.

**Pre-Use Inspections are one of the most important actions in spill prevention. These thorough inspections are conducted daily and include:**

- Check surfaces for leaks or stains.
- Inspect gauges to ensure fluid levels are adequate.
- Ensure hose fittings are secure and undamaged to prevent leaks or failures during operation.
- Examine hydraulic components, such as cylinders and hoses, for any signs of damage or leaks.



## Readied Response

Surerus Murphy is prepared to respond to any volume or type of spill, whether on land or water. Our risk reduction strategies to eliminate spills mean most spills that occur at our projects are minor in impact.

If, despite best efforts, a spill does occur, the project Environment Team is notified immediately to identify the source, and eliminate the spill and ensure clean-up and reclamation aligns with all compliance.

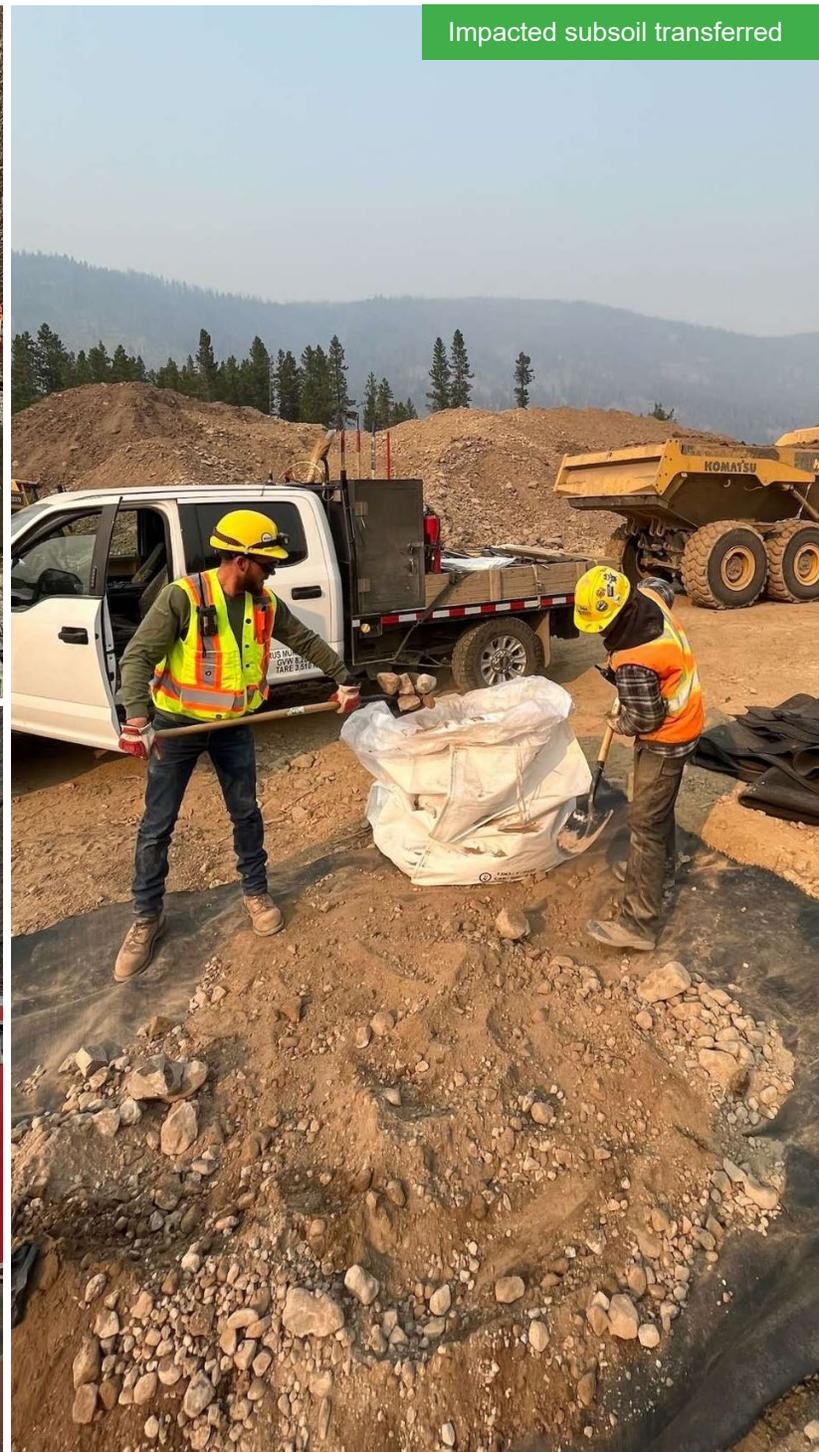
### **The following steps are taken in the event of a spill:**

1. Ensure everyone in the area is safe.
2. If safe to do so, identify the source of the spill, and stop the spill at the source.
3. Complete the required notifications, as appropriate.
4. Mobilize the necessary resources.

Spill kit



Impacted subsoil transferred



Spill response trailer



# Stories from the Field

## TRANS MOUNTAIN EXPANSION PROJECT

As part of the Trans Mountain Expansion Project, Surerus Murphy successfully executed two open-cut crossings of the Coldwater River, a highly sensitive, salmon-bearing watercourse in B.C. The Coldwater River is classified as an S1B stream, indicating its importance for fish habitat and the specific guidelines and regulations that apply. These crossings required exceptional planning and execution, especially regarding spill prevention measures, to protect the river's fragile ecosystem.

To minimize environmental risks, several measures were implemented. Non-toxic, biodegradable hydraulic fluids were used in all equipment operating in-stream, ensuring that any accidental fluid release posed minimal harm to the environment. Refueling followed a strict two-person protocol, with personnel stationed at both ends of the hose. Spill prevention, containment, and clean-up materials were maintained on-site throughout the duration of construction. Before entering the watercourse, all equipment underwent inspections to identify and address any potential defects.

These measures, combined with comprehensive training and readiness strategies, ensured that the crossings were executed without incident. The successful application of these spill prevention practices underscores Surerus Murphy's commitment to environmental stewardship and operational excellence.

Fish habitat signage at Coldwater River



ENZHEC Yard



## ENZHEC PROJECT

Surerus Murphy's warehouse team at the ENZHEC project is recognized for keeping a clean, organized and safe working environment that follows regulatory requirements. All materials, containments, tools, and equipment are stored properly, minimizing clutter and reducing the risk of safety and environmental concerns. Because of this, safety is optimized while operations flow smoothly with few to no concerns from the clients or regulatory bodies.

Compliance with safety and environmental standards and regulations requires maintaining a clean and orderly site to prevent incidents. Regulations dictate the debris, spills, and hazardous materials be properly handled and disposed of to avoid fire hazards, contamination, slips, trips, and falls. Failure to adhere to these regulations can result in fines, penalties, or even project shutdowns.

The warehouse team maintains systems for storing and sorting materials, and clearly labels and categorizes items. This makes it easy for workers to find materials required for their tasks, and to gather these items without the risk of a trip, slip or fall, or spilling a contained item. Regular inspections of the yard and warehouse ensure that any waste, debris, or unused materials are promptly removed and/or stored properly, keeping the site clear and free of potential safety and environmental hazards.

By ensuring housekeeping standards are met, our warehouse crew safeguarded the health and safety of the workers while remaining compliant with local, provincial, and federal regulations. This commitment to regulatory compliance fosters a safer work environment, reduces the risk of legal liabilities, and is another example of how we strive to be a contractor of choice for our clients.

In addition, the warehouse crew's communication and collaboration with other departments play a critical role in their success. By working closely with all disciplines and leads they can anticipate needs and address any challenges that arise. This teamwork raises a sense of accountability, ensuring that everyone is on the same page when it comes to maintaining cleanliness and organization in the construction yard and follows to the right of way.

**Surerus Murphy Key Contacts:**

- **QHSE:**  
QHSE@surerus-murphy.com
- **HR:**  
recruitment@surerus-murphy.com
- **Media & Issues:**  
marketingcommunications@surerus-murphy.com
- **Local & Indigenous Engagement:**  
indigenouslocalengagement@surerus-murphy.com



[www.surerus-murphy.com](http://www.surerus-murphy.com) | 403.930.1358