



Trans Mountain Presentation

An aerial photograph of a city, likely Vancouver, showing a dense urban area with numerous high-rise buildings and a river winding through the landscape. The background features rolling hills and mountains under a clear sky. The image is overlaid with a semi-transparent blue filter.

- Introduction
- Context within Community Safety Plan
- ONEC
- Report Findings
- Dynamic Modelling
- Next Steps
- Questions

INTRODUCTION

Context within Community Safety Plan

Report addresses two key priorities in the CSP

- **Emergency Services** – Increase the responsiveness of emergency services (ability to be efficient & effective)
- **Emergency Management**
 1. Reduce & prevent impact of emergencies
 2. Increase preparedness to respond to major emergencies
 3. Enhance response to and recovery from emergencies

ONEC

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40 years in Oil & Gas
Alyeska Terminal & Pipeline
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Worlds Premier Expert on Tank
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REPORT FINDINGS

RIM SEAL FIRE

Hengyuan Refinery, Malaysia
2020



CONTAINMENT BAY FIRE



Izmut, Turkey
1999

TANK ROOF DISPLACEMENT



Wynnewood, USA
2007

FULL SURFACE TANK FIRE



Israel
1997



Hokkaido, Japan
2003

BOILOVER



Tcoa, Venezuela
1982



Nigeria
2002

Jetty Fires



**Banjarmasin, Indonesia
2018**



**Busan, South Korea
2021**

Insufficient TMX Response Resources

1.

Insufficient on site Firefighting Resources.

Insufficient TMX Response Resources

2.

For Large Scenarios,
it is doubtful that TMX resources could be
deployed safely.

Insufficient TMX Response Resources

3.

It is doubtful that TMX resources could be deployed within a timeframe to minimize potential for escalation to catastrophic events.

Direct Public Impact

4.

The fuel type could result in Vapour Cloud Explosions or Boilovers, both of which could result in major catastrophic damage inside and outside the fence.

Direct Public Impact

5.

A major incident could lead to public panic, jeopardizing access and evacuation routes and resulting in considerable pressure on emergency resources.

Health Impacts

6.

There are potential short and long term health effects as a consequence of the compounds produced by combustion, especially for those with respiratory issues.

Environmental Impacts

7.

The foam used on site contains Per- and Polyfluoroalkyl (PFAS) chemicals which are facing increasing regulatory controls, due to their “forever” nature and long-term environmental consequences.

Environmental Impacts

8.

A spill at the jetty, could result in a significant incident to the environment, which may have long lasting impacts to the local wildlife.

DYNAMIC MODELLING

Dynamic Modelling

[Add Link to Video](#)

NEXT STEPS

Subject to input and direction from Council:

- Inform Burnaby MLA's, EMBC and SFU regarding completion of ONEC study and reporting out of the findings in near future;
- Present staff report at the Open Council meeting with media release following shortly there after;
- Consider timing of the table top exercise inviting, in particular, province and federal emergency response staff.

QUESTIONS?