

## VIA ELECTRONIC SUBMISSION

March 7, 2022

Canada Energy Regulator  
Suite 210, 517 Tenth Avenue S.W.  
Calgary, Alberta T2R 0A8

To: Ms Ramona Sladic, Secretary of the Commission

Dear Ms. Sladic:

**Re: Trans Mountain Pipeline ULC ("Trans Mountain")  
Trans Mountain Expansion Project ("Project")  
OC-065  
Condition 106: Construction Progress Reports  
CER File: OF-Fac-Oil-T260-2013-03 61**

Please find enclosed Trans Mountain's compliance filing in fulfillment of Condition 106 for the month of February 2021.

### **Condition 106: Construction progress reports**

The text of Condition 106, as established by the Commission, is as follows:

*Trans Mountain must file with the NEB monthly construction progress reports from commencing construction until after commencing operations. The reports must include information on the progress of activities carried out during the reporting period, including:*

- (a) safety, environmental and security issues or non-compliances that occurred during the reporting period;*
- (b) measures undertaken to resolve safety and environmental issues or non-compliances identified in a);*
- (c) confirmation that security issues identified in a) have been addressed;*
- (d) a description and the location of any change made to geohazard mitigation measures pursuant to Condition 51; and*
- (e) the location of any pressure tests carried out during the reporting period and a description of any unsuccessful pressure tests, including the reasons for the lack of success of each.*

The Construction Progress Report includes a concordance table that shows where each aspect of the Condition is addressed in the attached material.

**Summary of Material Filed**

Enclosed for submission is the following document:

- Construction Progress Report for Trans Mountain Expansion Project: Condition 106 (Monthly Update for February 2022), hereinafter the "Report"

The Report was prepared to address the requirements of Condition 106 and includes information on the progress of activities carried out during the reporting period at the Westridge Marine Terminal, Edmonton Terminal, Sumas Terminal, Burnaby Terminal, Burnaby Tunnel, pump stations, pipeline spreads 1-7, and temporary infrastructure sites in Spreads 1, 2, 3, 4, 5, 6 and 7.

Should you have any questions or wish to discuss this matter further, please contact the undersigned at [regulatory@transmountain.com](mailto:regulatory@transmountain.com) or (403) 514-6400.

Yours truly,

*Original signed by*

Scott Stoness  
Vice President, Regulatory and Compliance  
Trans Mountain Canada Inc.

Enclosure: Construction Progress Report Monthly Update for February 2022




**TRANSMOUNTAIN**

Trans Mountain Pipeline ULC

Monthly Construction Progress Update for February 2022

CER Condition 106


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### TABLE OF CONCORDANCE

Condition 106 is applicable to the following legal instruments: OC-065, as amended (CPCN), AO-005-OC-2 (OC2), AO-004-OC-49 (OC49), AO-001-XO-T260-007-2016 (TEMP), AO-002-XO-T260-008-2016, as amended (Pump 1), AO-002-XO-T260-009-2016, as amended (Pump 2), AO-002-XO-T260-010-2016, as amended (Tanks) and AO-001-MO-015-2016 (Deact). Table 1 describes how this report addresses the Condition requirements applicable to Construction Progress Reports.


**TABLE 1 - LEGAL INSTRUMENT CONCORDANCE WITH CER CONDITION 106:  
CONSTRUCTION PROGRESS REPORTS**

CER Condition 106	OC-065 (CPCN)	AO-005-OC-2 (OC2)	AO-004-OC-49 (OC49)	AO-001-XO-T260-007-2016 (TEMP)	AO-002-XO-T260-008-2016 (PUMP1)	AO-002-XO-T260-009-2016 (PUMP2)	AO-001-XO-T260-010-2016 (TANKS)	AO-001-MO-015-2016 (DEACT)
Trans Mountain must file with the NEB, monthly construction progress reports from commencing construction until after commencing operations. The reports must include information on the progress of activities carried out during the reporting period, including:	See below.	N/A – No activities occurred during this reporting period.	N/A – No activities under this legal instrument occurred during this reporting period.	See below.	See below.	See below.	See below.	N/A – No activities occurred during this reporting period.
a) safety, environmental and security issues, or non-compliances that occurred during the reporting period;	Sections 1.0, 15.0, - 22.0 incl.	See above.	See above.	Section 23	N/A	Sections 5.0-14.0	Sections 2.0, 3.0, 4.0	See above.
b) measures undertaken to resolve safety and environmental issues or non-compliances identified in a);	Sections 1.2, 15.1, 16.1, 16.3, 17.1, 18.1, 19.1, 20.1, 22.1	See above.	See above.	Sections 23.4.1, 23.7.1.1	N/A	N/A	Sections 4.1, 4.2	See above.
c) confirmation that security issues identified in a) have been addressed;	Sections 1.1, 16.2, 17.2, 18.2, 19.2, 20.2, 21.1	See above.	See above.	N/A	N/A	N/A	N/A	See above.
d) description and the location of any change made to geohazard mitigation measures pursuant to Condition 51; and	N/A to this reporting period	See above.	See above.	N/A	N/A	N/A	N/A	See above.
e) the location of any pressure tests carried out during the reporting period and a description of any unsuccessful pressure tests, including the reasons for the lack of success of each.	N/A	See above.	See above.	N/A	N/A	N/A	N/A	See above.

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Table 4 Environmental Events Reported in February 2022

Table 5 Environmental Deficiencies Reported in February 2022

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## Introduction

On June 18, 2019, the Governor General in Council, on the recommendation of the Minister of Natural Resources, directed the National Energy Board (“NEB” or “Board”) to issue CPCN OC-065, and various Amending Orders, to Trans Mountain to permit the Project to proceed, subject to 156 conditions.

Trans Mountain submits this Report pursuant to Condition 106, Construction Progress Reports, for the time period of February 1-28, 2022 (reporting period).

## Report Overview

This Report includes information on the progress of activities related to the active phases within the listed work areas carried out during the reporting period, inclusive of:

- Safety, environmental and security issues or non-compliance issues that occurred during the reporting period (Condition 106(a));
- Measures undertaken to resolve safety and environmental issues or non-compliances (Condition 106(b));
- Confirmation that security issues have been addressed (Condition 106(c));
- Description and location of any change made to geohazard mitigation measures pursuant to Condition 51 (Condition 106(d)); and
- The location of any pressure tests carried out during the reporting period and a description of any unsuccessful pressure tests, including the reasons for the lack of success of each (Condition 106(e)).

Trans Mountain confirms that no changes were made to geohazard mitigation measures pursuant to Condition 51 (Condition 106(d)). The first pressure tests were conducted on Spread 1 (Condition 106(e)) during the reporting period (see Section 15.2).


The number of safety, environmental, security, and non-compliance issues that occurred during the reporting period are provided in Table 2.

**TABLE 2: TOTAL NUMBER OF SAFETY, ENVIRONMENTAL, SECURITY AND NON-COMPLIANCE ISSUES FOR THIS REPORTING PERIOD**

Description	Total Number of Issues
Medical Aids	4
Lost Time Incidents	0
Higher Potential Near Miss	10
Property Damage (> \$5,000)	2
Damage Prevention	0
Other	32
Environmental Events	2
Security Issues	10
Non-Compliances	1

## Definitions

To meet the requirements of Condition 106 (a)-(d), Trans Mountain has developed criteria to define the nature and severity of the events reported to the CER in the course of construction. The following definitions are used throughout this report.

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**Safety issues**, as defined in the Trans Mountain Canada Inc. (TMC) Integrated Safety and Loss Management System (ISLMS), are reported in terms of:

- Medical aids – a work-related injury or illness that requires the attention of a physician or of a licensed medical practitioner under the direction of a physician, whereby an actual medical procedure was administered.
- Lost time incidents – incidents or medical aids that result in days away from work.
- Higher potential near miss – circumstances that could have resulted in a reportable serious event under a slightly different situation.
- Property damage >\$5000 – damage to company and/or third-party facilities (including pipelines and associated equipment), equipment, property, vehicles.
- Other – motor vehicle accidents, unintended fire or explosion, unauthorized activity (CER-reported).

These include safety reporting requirements set out in the Canada Energy Regulator Onshore Pipeline Regulations.


**Environmental matters are reported in three ways:**

- **Event** – an event is the occurrence of an unplanned environmental impact that has occurred either by accident or through non-conformance with a Trans Mountain Project requirement. Timely, appropriate corrective and preventative actions (CAPA) are evaluated, implemented and documented. Note - for the purposes of satisfying Condition 106, an event is equivalent to an issue as mentioned in the text of Condition 106. Examples of potential events include:
  - the release of sediment into a waterbody as a result of failure of an erosion control measure
  - failure to complete the appropriate level of biosecurity cleaning
  - topsoil stripping outside of approved footprints
  - mortality of a fish due to impact pile driving despite controls in place (e.g. bubble curtain, etc.)
  - Improper handling of historical contamination resulting in contamination of clean topsoil
  - Clearing activities proceeded ahead of schedule within riparian buffer zone
- **Deficiency** – sometimes also referred to as a near miss. A deficiency is the occurrence of a shortcoming to a Trans Mountain Project requirement that is identified through environmental management processes; appropriate corrective and preventative actions (CAPA) are evaluated and implemented, and environmental impacts are avoided or prevented. Examples of deficiencies include:
  - garbage on the ground
  - environmental signage not installed or requiring maintenance
  - damaged erosion and sediment control devices
  - siltation that does not impact a sensitive environmental receptor
  - clay spoil piled on topsoil without adequate separation
  - fuel Container not placed within secondary containment

Historical contamination found incidentally during construction and handled in accordance with the Contamination Discovery Contingency Plan will be recorded as an observation and addressed. It will not be reported in the C 106 monthly report.

- **Reportable Spill** – An unplanned release that exceeds a quantity reportable under provincial or federal law or regulation, an unplanned release of unknown quantity with the potential to exceed a reportable quantity, or a situation where an unplanned release enters a body of water.



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**Non-Compliances** – when a notice of non-compliance is received from the CER or other federal and provincial regulators the event is described as a non-compliance and is reported along with its resolution. Non-compliances identified through regulatory inspections will only be reported following issuance to Trans Mountain of final inspection reports. Reporting of a non-compliance supersedes reporting of an environmental issue or deficiency. Where a non-compliance also involves an environmental issue or deficiency, it is only reported once as a non-compliance.

Security issues are related to potential or actual threats to facilities and construction activities by third-parties.

The actions taken to address, mitigate and resolve all issues are described herein.


## Work Areas and Phases

This report encompasses all construction activities completed during the reporting period. The layout includes each work area the construction pertains to, in alignment with Condition 10. Please note that Phases 7, 8 and 20 are no longer required for the Project and have been removed from CER Orders.

**TABLE 3: PROJECT WORK AREAS**

Phase #	Phased Construction Spreads, Regions, or Work Areas	Phase Activity
<b>Terminals</b>		
1	Westridge Marine Terminal	STARTED
2	Edmonton Terminal	STARTED
3	Sumas Terminal	STARTED
4	Burnaby Terminal	STARTED
<b>Line 1 Pumps</b>		
5	Jasper Pump Station	NOT STARTED
6	Black Pines Pump Station	STARTED
7	Kamloops Pump Station <sup>1</sup>	NOT APPLICABLE
8	Sumas Pump Station <sup>1</sup>	NOT APPLICABLE
<b>Line 2 Pumps</b>		
9	Edmonton Pump Station	NOT STARTED
10	Gainford Pump Station	STARTED
11	Wolf Pump Station	STARTED
12	Edson Pump Station	STARTED
13	Hinton Pump Station	STARTED
14	Blue River Pump Station	STARTED
15	McMurphy Pump Station	STARTED
16	Blackpool Pump Station	STARTED
17	Black Pines Pump Station	STARTED
18	Kamloops Pump Station	STARTED
19	Kingsvale Pump Station	STARTED

<sup>1</sup> Not applicable per amended Order AO-001-XO-T260-008-2016, issued July 6, 2018 (A92862).

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Phase #	Phased Construction Spreads, Regions, or Work Areas	Phase Activity
20	Niton Pump Station Reactivation <sup>2</sup>	NOT APPLICABLE

**Line 1 Reactivation / Deactivation / Other Activities**

21	Line 1 (valves) <sup>3</sup>	NOT STARTED
22	Hinton to BC Border Reactivation	NOT STARTED
23	BC Border to Hargreaves Reactivation	NOT STARTED
24	Darfield to Black Pines Reactivation	NOT STARTED
25	Wolf Pump Station Deactivation <sup>2</sup>	NOT APPLICABLE

**Line 2 Work Areas**

26	Spread 1	STARTED
27	Spread 2	STARTED
28	Spread 3	STARTED
29	Spread 4	STARTED
30	Spread 5	STARTED
31	Spread 5, Condition 39 Coldwater Hydrological	NOT APPLICABLE <sup>4</sup>
32	Spread 5, Condition 7 Ohamil	NOT STARTED
33	Spread 6	STARTED
34	Spread 6, Condition 7 Tzeachten	NOT STARTED
35	Spread 6, Condition 77 Lightning Rock	NOT STARTED
36	Spread 7	STARTED
37	Spread 7, Condition 7 Surrey Bend	NOT STARTED
38	Westridge Delivery Lines	NOT STARTED
39	Westridge Portal of Burnaby Tunnel	STARTED
39	Burnaby Tunnel	STARTED
39	Burnaby Portal of Burnaby Tunnel	STARTED


**Temporary Infrastructure: Pursuant to Condition 61 Filing [\(C17345\)](#)**

Spread 1	ACTIVE
Spread 2	ACTIVE
Spread 3	ACTIVE
Spread 4	ACTIVE
Spread 5	ACTIVE
Spread 6	ACTIVE
Spread 7	ACTIVE

<sup>2</sup> Not applicable, per Certificates of Public Convenience and Necessity AO-004-OC-2 and AO-003-OC-49, issued February 9, 2018 (A89926).

<sup>3</sup> In relation to the Line 1 reactivation segments, the Line 1 valve installations have not started. At other locations along the existing Trans Mountain system (Line 1), the valve installations are being undertaken as an operational activity.

<sup>4</sup> CER Decision in MH-032-2020 and Order AO-008-OC-065 indicated that Trans Mountain was relieved of Condition 39 in respect of the Project.

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## 1.0 PHASE 1: WESTRIDGE MARINE TERMINAL

<b>Construction Progress</b> Onshore: <ul style="list-style-type: none"> <li>Erosion and Sediment Control measures monitored and maintained;</li> <li>Water Treatment Equipment monitored and maintained;</li> <li>Delivery line structural steel installation commenced;</li> <li>Continued grading works in manifold area;</li> <li>Underground utilities continued; and</li> <li>GHAB casing for product, water and utility lines advanced.</li> </ul> Foreshore: <ul style="list-style-type: none"> <li>Turbidity curtains and foreshore sediment control measures maintained;</li> <li>Water Treatment Equipment monitored and maintained;</li> <li>Underground utilities continued;</li> <li>Commenced installation of concrete and structural works for control building</li> <li>Soil Improvement continued; and</li> <li>Continued coping slab construction.</li> </ul> Marine Berth Piles: <ul style="list-style-type: none"> <li>Commenced installation of Water Supply Platform piles;</li> <li>Marine Superstructure: <ul style="list-style-type: none"> <li>Top deck concrete works at Loading Platform LP3, Trestle Spans T10, T11 and T12 continued.</li> </ul> </li> </ul> Loading Platforms: <ul style="list-style-type: none"> <li>Structural Steel and Piping at Loading Platform LP 1 / 2 continued.</li> </ul>			
<b>Issues and Non-Compliances</b>			
<b>Safety Issue</b>	<b>Security Issue</b>	<b>Environment Event</b>	<b>Non-Compliance</b>
0	1 (Section 1.1)	<ul style="list-style-type: none"> <li>1 environmental event (Section 1.2.1; Table 4)</li> <li>1 reportable spill (Section 1.2.2)</li> <li>7 environmental deficiencies (Table 5)</li> </ul>	0

### 1.1 Security Summary


Date	Issue Type	Description	Measures Taken
Feb 25, 2022	Protest at Front Gate	Unlawful Protest. 13 individuals blocked access to Westridge Terminal stopping work for 36 minutes.	Protestors departed before police could arrive. No arrests.

### 1.2 Environment Summary

#### 1.2.1 Environmental Events

A description of environmental events and their resolution is provided below.

ID # & Date	Loc.4.17.ENV.020822.00163851 8 February 2022
Description	Hardened grout was observed in the intertidal zone along the base of the sheet piles on the west side of Cell 1 and adjacent to and downslope of the northeastern most steel pile supporting the office trestle. The grout likely originated from below mudline at these two locations and then flowed down the intertidal slope and over and around intertidal gravel, cobble, and boulders. The total area affected by the grout is approximately 10m <sup>2</sup> .
Requirement	Westridge Marine Terminal EPP, Section 8.0, Measure 49.
Measures Taken	A layer of cobble rip rap will be placed over the affected area to reinforce structural complexity, increase the availability of complex rocky intertidal substrate and provide foraging

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	and refuge habitat for a variety of marine fish and invertebrate species. The cobble will be free of fines and the turbidity curtain will be in place during placement. (In progress) Nearshore in-water works are not permitted from March 16 to August 15; therefore, the placement of cobble rip rap will occur during the upcoming least-risk window (i.e., 16 August 2022 – 15 March 2023).
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### 1.2.2 Reportable Spill Summary

A description of reportable spills and their resolution is provided below.

ID # & Date	Loc.4.17.ENV.021622.00164435 16 February 2022
Description	Approximately 0.125 L of hydraulic fluid was released to the marine environment from a manlift on a flexi float due to occlusion of a hydraulic line during elevation of the work platform which resulted in the rupture of the line.
Requirement	Westridge Marine Terminal EPP, Spill Contingency Plan
Measures Taken	The manlift was immediately locked-out and shut down. Spill pads and absorbent booms were deployed around the visible sheen. Hydrocarbon absorbent spill pads were also deployed on the deck of the flexi-float. (Complete) A mechanic repaired the hydraulic line and conducted an inspection of the equipment to examine other hydraulic lines with the potential for occlusion. No additional lines were affected. (Complete) The release was reported to Canadian Coast Guard and the BC MOECCS (DGIR # 214726). (Complete)

## 2.0 PHASE 2: EDMONTON TERMINAL

### Construction Progress

TK-1 All internal pitting repairs complete and rescanned, external repairs also completed and rescanned.

TK-2 Approximately 75% of internal pitting repairs complete and rescanned, all external repairs are completed and rescanned.

TK-3 Approximately 99% of internal pitting repairs complete and rescanned, all external repairs are completed and rescanned.

TK-4 Ongoing minor deficiency work

Ongoing piling installation in WTUA and cutting and splicing of piles in WTUA/WT/PS.


Installation ongoing for retaining walls and backer plates in WTUA/WT/PS

Continue tacking & welding 20", 24", 30" & 36" piping in the interconnecting piperack and LMA/DMA/WT/PS

Continue bolt up and torquing piping spools in DMA/WTUA/WT/PS.

### Issues and Non-Compliances

Safety Issue	Security Issue	Environment Event	Non-Compliance
0	0	0	0


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### 3.0 PHASE 3: SUMAS TERMINAL

<b>Construction Progress</b> Erosion and Sediment Control measures monitored and maintained; Continued slope paving in Tank 104 containment; Completed installation of Tank 104 product piping; Continued construction of Firewater pond; and Manifold area civil and mechanical construction continued.			
<b>Issues and Non-Compliances</b>			
<b>Safety Issue</b>	<b>Security Issue</b>	<b>Environment Event</b>	<b>Non-Compliance</b>
0	0	14 environmental deficiencies (Table 5)	0

### 4.0 PHASE 4: BURNABY TERMINAL

<b>Construction Progress:</b> <b>East Area:</b> TK-74: Completed installation of ring 3; TK-75: Continued welding fixed roof plates and pontoon assemblies; TK-76: Commenced installation of ring 3; TK-77: Continued installation of roof plates and spiral stairs.; TK-78: Completed installation of ring 2; TK-79: Completed roof plate installation. <b>North Area:</b> Installation and hydrotesting of fire water piping continued; TK-91: Commenced installation of fourth ring shell plates; TK-93: Completed installation of third ring shell plates; TK-95: Continued preparation of tank foundation works; TK-96: Continued construction of shoring wall. TK-97: Continued preparation of tank foundation works; TK-98: Continued construction of shoring wall. <b>South Area:</b> Continued installation of pile caps and foundation pads. Continued installation of piperack piles, cable trays and product piping <b>Central Area:</b> Continued the installation of below ground fire & foam piping and electrical conduits in existing roadways; Continued the installation of the tank product lines; Continued the installation of piles and pile caps; Continued installation of shoring wall for Tanks 80, 86 & 89;			
<b>Issues and Non-Compliances</b>			
<b>Safety Issue</b>	<b>Security Issue</b>	<b>Environment Event</b>	<b>Non-Compliance</b>
3 (Section 4.1)	0	67 environmental deficiencies (Table 5)	1 (Section 4.2)

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#### 4.1 Safety Summary

Date and Issue Type	February 14, 2022 High Potential Near Miss	
Description	Measures Taken	
Incident 2216 A worker was erecting scaffolding, working at a height of approximately 12 feet. Needing more material, the worker unhooked the lanyard from their harness and proceeded to descend to the ground without of a tie off.	The Disciplinary Policy was enacted and the worker was terminated.  The subcontractor communicated the TMEP Life Saving Rules (LSR) working at height requirements at the TMEP site.  The contractor communicated and sent the current fall protection plan template to the subcontractor.	
Date and Issue Type	February 24, 2022 Other (Vehicle)	
Description	Measures Taken	
Incident 2285 While delivering ice melt to a subcontractor cleaning van that was stuck due to slippery road conditions, a side by side was unable to stop and slid down the incline and made contact with an unoccupied van. Damage was sustained to front bumper of van and driver side door of side by side. No injuries occurred.	The contractor communicated a safety bulletin regarding weather changes with focus on preparation for changing road conditions.	
Date and Issue Type	February 25, 2022 Other (Fire)	
Description	Measures Taken	
Incident 2301 Welding sparks caused a burlap sack to catch on fire on a scaffold deck below a work area. The fire was put out immediately. No injuries.	The subcontractor identified the use of burlap for scaffold paint protection not viable for the site.  The subcontractor communicated that Fire Resistant (FR) rated material is to be utilized for paint protection.  A safety bulletin was communicated on hazard identification as indicated on the hot work checklist which focused on ensuring that adequate controls are in place for flammable or combustible materials.	

#### 4.2 Non-Compliance Summary

A description of non-compliances and their resolution is provided below.

ID # & Date	Loc.4.18.ENV.022522.00164832 February 24, 2021
Description	Discharge from the Tertiary Containment Area (TCA) to an unnamed tributary to Eagle Creek exceeded turbidity levels. The discharge valve was opened to ensure sufficient freeboard was maintained in anticipation of upcoming heavy rainfall.
Requirement	Waste Discharge Permit 6945, Section 1.1.5
Measures Taken	Water samples were collected and taken to a laboratory for analysis. (Complete) Discharge velocity from the TCA was decreased to allow for more settling. (Complete)

## 5.0 PHASES 6 AND 17: BLACK PINES PUMP STATION

<b>Construction Progress</b> Mechanical Punch List Items have been completed. Ongoing Liner installation and gravel placement site wide Continue terminating EHT power kits on the House Keeping Pads. Ongoing terminations for Instrumentation Continue to work through Insulation punch list items.			
<b>Issues and Non-Compliances</b>			
<b>Safety Issue</b>	<b>Security Issue</b>	<b>Environment Event</b>	<b>Non-Compliance</b>
0	0	1 environmental deficiency (Table 5)	0

## 6.0 PHASE 10: GAINFORD PUMP STATION


<b>Construction Progress</b> Ongoing minor deficiency resolution throughout facility, and general site clean up. Pre-commissioning work underway; installing valve tags, point to point checks.			
<b>Issues and Non-Compliances</b>			
<b>Safety Issue</b>	<b>Security Issue</b>	<b>Environment Event</b>	<b>Non-Compliance</b>
0	0	0	0

## 7.0 PHASE 11: WOLF PUMP STATION

<b>Construction Progress</b> Ongoing minor deficiency resolution and clearing punch items. Continue site demobilization and general site cleanup along with performing equipment preservation.			
<b>Issues and Non-Compliances</b>			
<b>Safety Issue</b>	<b>Security Issue</b>	<b>Environment Event</b>	<b>Non-Compliance</b>
0	0	0	0

## 8.0 PHASE 12: EDSON PUMP STATION

<b>Construction Progress</b> Ongoing minor deficiency resolution and clearing punch items. Completed installing tray covers, patching anchors and motor rail supports. Begin general building and site clean-up preparing for site demobilization.			
<b>Issues and Non-Compliances</b>			
<b>Safety Issue</b>	<b>Security Issue</b>	<b>Environment Event</b>	<b>Non-Compliance</b>
0	0	0	0

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## 9.0 PHASE 13: HINTON PUMP STATION

<b>Construction Progress</b> Ongoing minor deficiency resolution and clearing punch items. Final cleanup and demobilization from site in progress. Pre-commissioning activities underway along with equipment preservation tasks.			
<b>Issues and Non-Compliances</b>			
<b>Safety Issue</b>	<b>Security Issue</b>	<b>Environment Event</b>	<b>Non-Compliance</b>
0	0	0	0

## 10.0 PHASE 14: BLUE RIVER PUMP STATION

<b>Construction Progress</b> Working on clearing punch list items from system walk downs Pre-commissioning activities underway.			
<b>Issues and Non-Compliances</b>			
<b>Safety Issue</b>	<b>Security Issue</b>	<b>Environment Event</b>	<b>Non-Compliance</b>
0	0	2 environmental deficiencies (Table 5)	0


## 11.0 PHASE 15: MCMURPHY PUMP STATION

<b>Construction Progress</b> Work underway on excavation to support line 2 installation. Installation of grout forms in pump building in progress. Continued glanding and terminating of cables site wide, along with grounding and bonding tray. Fiber termination at SESB and operators building complete.			
<b>Issues and Non-Compliances</b>			
<b>Safety Issue</b>	<b>Security Issue</b>	<b>Environment Event</b>	<b>Non-Compliance</b>
0	0	6 environmental deficiencies (Table 5)	0

## 12.0 PHASE 16: BLACKPOOL PUMP STATION

<b>Construction Progress</b> Ongoing QA/QC checks as part of pre-commissioning activities and ongoing work to clear minor deficiencies and punches.			
<b>Issues and Non-Compliances</b>			
<b>Safety Issue</b>	<b>Security Issue</b>	<b>Environment Event</b>	<b>Non-Compliance</b>
0	0	1 environmental deficiency (Table 5)	0



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### 13.0 PHASE 18: KAMLOOPS PUMP STATION


<b>Construction Progress</b> Completed EHT installation on manifold platform and installed cathodic JB in the Tank Farm. Ongoing tray cover installation along the pump house and House Keeping Pad waterfalls. Continue installation of piping insulation on 36" relief line piping in tank farm and Line 2 piping on House Keeping Pad. Ongoing placement and compaction of 75mm base course gravels on installed/released liner areas East & South of House Keeping Pad. Ongoing installation of EHT on Tank Farm piping.			
<b>Issues and Non-Compliances</b>			
<b>Safety Issue</b>	<b>Security Issue</b>	<b>Environment Event</b>	<b>Non-Compliance</b>
0	0	0	0

### 14.0 PHASE 19: KINGSVALE PUMP STATION

<b>Construction Progress</b> Continue installation of Instruments on housekeeping pad. Ongoing piping installation site wide. Continue to install structural steel for pump building. Continue to gland and terminate 5kV cables at SESB.			
<b>Issues and Non-Compliances</b>			
<b>Safety Issue</b>	<b>Security Issue</b>	<b>Environment Event</b>	<b>Non-Compliance</b>
0	0	3 environmental deficiencies (Table 5)	0

### 15.0 PHASE 26: SPREAD 1 AND PHASE 27: SPREAD 2 (GCC – MIDWEST)

<b>Construction Progress</b> <b>Spread 1</b> Spread 1 is now mechanically complete and the Leave to Open (LTO) has been filed. Civil work, fencing and reclamation are ongoing.		<b>Spread 2</b> Access, stripping and grading work in Spread 2A. Mainline construction in progress between KP 49 and KP 338, with focus on Spread 2A. Range Road 40 HDD completed. Ponoka Creek HDD casing installation underway. KP 310 micro-tunnel shaft construction complete and tunnel progressing. HDB road bores in Spreads 2A and 2C ongoing, with focus on Spread 2A.	
<b>Issues and Non-Compliances</b>			
<b>Safety Issue</b>	<b>Security Issue</b>	<b>Environment Event</b>	<b>Non-Compliance</b>
2 (Section 15.1)	0	67 environmental deficiencies (Table 5)	0


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## 15.1 Safety Summary

Date and Issue Type	February 14, 2022 Other (Vehicle)	
Description	Measures Taken	
<p>Incident 2223</p> <p>A worker was checking numbers on the pipe while driving by. They needed to back up to see a number. When they backed up, they checked their driver side mirror and proceeded back. There was another truck parked behind that they did not see and struck the front bumper of the parked vehicle.</p>	<p>The crew reviewed spotter requirements at the tailgate meeting.</p> <p>The Foreman followed the contractor's progressive discipline policy.</p>	
Date and Issue Type	February 16, 2022 Other (Vehicle)	
Description	Measures Taken	
<p>Incident 2246</p> <p>A security guard was preparing to exit onto Hwy 60 from a secondary highway. The worker observed a semi trailer and a white pick up truck coming up the ramp from westbound traffic also preparing to merge onto Hwy 60. As the security guard accelerated to pass the semi, the white truck also accelerated and merged into the left lane contacting the security guard's truck causing damage to the passenger side of the truck. The two vehicles pulled over, the driver of the white truck admitted fault and provided the required documentation. No injuries occurred to either party.</p>	<p>This incident is under investigation.</p>	


## 16.0 PHASE 28: SPREAD 3 AND PHASE 29: SPREAD 4A (KP 610-690) [GCC – SLLP]

<b>Construction Progress</b> Clearing ongoing Stripping and grading ongoing Ditching and backfill ongoing Mainline stringing, bending and welding ongoing Four watercourse crossings completed North Thompson 5 casing installation and commence drilling			
<b>Issues and Non-Compliances</b>			
<b>Safety Issue</b>	<b>Security Issue</b>	<b>Environment Event</b>	<b>Non-Compliance</b>
11 (Section 16.1)	1 (Section 16.2)	1 reportable spill (Section 16.3.1) 84 environmental deficiencies (Table 5)	0


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## 16.1 Safety Summary

Date and Issue Type	February 02, 2022 Other (Vehicle)	
Description	Measures Taken	
<p>Incident 2120</p> <p>A driver parked their Light Duty Vehicle (LDV) and stayed in the vehicle for an extended period. A second LDV pulled in and parked about 30 feet behind. The first driver placed their truck in reverse, backed up, and contacted the front of the parked LDV. Both vehicles were damaged.</p>	<p>The contractor followed the progressive discipline policy.</p> <p>A bulletin was created to detail the vehicle walkaround parameters.</p> <p>The workers involved were retrained on spotter training and recompleted the competency assessment.</p>	
Date and Issue Type	February 06, 2022 Other (Vehicle)	
Description	Measures Taken	
<p>Incident 2159</p> <p>A grader operator was traveling northbound on a highway when the grader was rear-ended by a civilian vehicle. A supervisor noticed the event and stopped to make sure that there were no injuries, and that the scene was safe. The RCMP were contacted.</p>	<p>The contractor's Health and Safety team generated a Safety Bulletin to share the learnings from the incident.</p>	
Date and Issue Type	February 08, 2022 Other (Vehicle)	
Description	Measures Taken	
<p>Incident 2181</p> <p>A worker was backing up a LDV and contacted an unoccupied parked crew van. The worker admitted that a personal factor affected the worker's ability to keep mind on the task.</p>	<p>A safety bulletin was communicated to all Project personnel about mental health and the services available to all project personnel with Lifeworks Onsite Counselling and the Employee Assistance Program.</p>	
Date and Issue Type	February 10, 2022 High Potential Near Miss	
Description	Measures Taken	
<p>Incident 2199</p> <p>During the marking out of a blast pattern, a worker identified a drill hole that had live explosives present from a previous blast. This was reported to the supervisor, and an exclusion zone was established to prevent unauthorized entry into the area. After a failed attempt to extract the explosives, the workers called the blasting contractor to report the finding. The scene was frozen until a plan for the safe removal of the live explosives was made.</p>	<p>The supervisor repeated all onboarding requirements prior to recommencing work on the project.</p> <p>The post blast inspection documentation was revised/updated.</p> <p>The progressive discipline policy was followed.</p>	
Date and Issue Type	February 14, 2022 Other (Vehicle)	
Description	Measures Taken	
<p>Incident 2214</p> <p>A worker failed to complete a 360-walk around or use a spotter of a Light Duty Vehicle (LDV) prior to reversing. When the LDV was backed up on the right-of-way, it made contact with a detached excavator bucket being stored on the right-of-</p>	<p>The progressive discipline was applied to the driver.</p> <p>The incident was reviewed with the supervisors at the weekly safety meeting and the use of spotters was stressed to supervision.</p>	

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way causing damage to the LDV. No workers were in the line of fire and no one was injured.		
Date and Issue Type	February 24, 2022 Other (Vehicle)	
Description	Measures Taken	
Incident 2228 A Light Duty Vehicle (LDV) attempted to pass an excavator in a tight area of the right-of-way. When the driver realized that the space was too tight, he backed up to get out of the area. When backing up, the driver's side mirror made contact with the counterweight of the excavator causing damage. No injuries occurred.	The supervisor followed the progressive discipline policy.	
Date and Issue Type	February 27, 2022 Other (Vehicle)	
Description	Measures Taken	
Incident 2314 A light duty vehicle (LDV) was attempting to pull out of a parking area when leaving the work location and made contact with another parked LDV. Contact was made between the front bumper of the departing LDV and the rear bumper of the parked LDV. No workers were in the line of fire when the event occurred.	The supervisor applied the progressive disciplinary policy. The worker reviewed the Safe Working Practice (SWP), which focused on Driving On and Off Roads.	
Date and Issue Type	February 27, 2022 Other (Vehicle)	
Description	Measures Taken	
Incident 2315 A contractor's one-ton sanding truck was backing up and contacted a snowbank causing damage to the vehicle. No injuries resulted from the incident.	The supervisor applied the progressive disciplinary policy The driver and passenger reviewed the Safety Work Practice (SWP) for spotting.	
Date and Issue Type	February 28, 2022 Other (Vehicle)	
Description	Measures Taken	
Incident 2318 A light duty sanding truck was attempting to leave an area when it lost traction and slid into a parked Light Duty Vehicle (LDV). No injuries.	The supervisor applied the progressive disciplinary policy. The contractor updated the preventative maintenance schedule for access roads and high traffic areas for sanding grading requirements.	
Date and Issue Type	February 28, 2022 Other (Vehicle)	
Description	Measures Taken	
Incident 2322 A Light Duty Vehicle (LDV) backed into a parked, occupied vehicle in the work area. No workers were injured and minor damages resulted from the contact.	The supervisor applied the progressive disciplinary policy.	
Date and Issue Type	February 28, 2022 Other (Vehicle)	
Description	Measures Taken	

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<b>Incident 2323</b> A contractor crew truck slid during snow/icy conditions off the side of the road into the bar ditch. The truck was pulled out. The incident resulted in a minor dent to the bottom of driver's side door. Very slippery conditions at time due to rain, then heavy snow. No injuries to personnel.	The incident was reviewed at the Weekly Safety Meeting. The driver completed the Safe Driving Practices course for a second time in order to gain further skills.
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## 16.2 Security Summary

Date	Issue Type	Description	Measures Taken
Feb 20, 2022	Unauthorized Use of Equipment	3 civilians used an excavator in attempt to straighten damage to their vehicle. They started the excavator, and in moving it caused damage to a nearby piece of equipment.	Security personnel attended along with RCMP, three individuals arrested, charges of mischief to proceed.

## 16.3 Environment Summary


### 16.3.1 Reportable Spills

A description of reportable spills and their resolution is provided below.

ID # & Date	Loc.4.8.55.ENV.022822.00164652 28 February 2022
Description	Approximately 16 m <sup>3</sup> of non-toxic bentonite drilling fluid was inadvertently released to a shrubby riparian swamp at the site of its North Thompson River horizontal directional drill (North Thompson Crossing # 5) (KP 577).
Requirement	C 72 Pipeline EPP, Appendix B, Section 3.0 Bentonite Fluid Release Contingency Plan
Measures Taken	<ul style="list-style-type: none"> <li>Drilling was immediately suspended until the release was controlled and mitigated. (Complete)</li> <li>The release was contained, and drilling fluid was recovered with a hydrovac unit. (Complete)</li> <li>The release was cleaned, and the area was flushed with water from the hydrovac unit. (In Progress)</li> <li>Reported to BC Emergency Response #214861 and CER INC2022-040. (Complete)</li> </ul>


## 17.0 PHASE 29: SPREAD 4B (KP ~ 690-764) GCC – BANISTER

<b>Construction Progress</b> Stripping and grading Birch Island (KP 709+800), progressing North Pipe stringing from Clearwater, progressing North Tie-ins focused on Little Fort, progressing South Mainline excavation and pipe installation throughout the Spread Road bore drilling continues Site/Pit preparation for Clearwater DPI ongoing			
<b>Issues and Non-Compliances</b>			
<b>Safety Issue</b>	<b>Security Issue</b>	<b>Environment Event</b>	<b>Non-Compliance</b>
5 (Section 17.1)	1 (Section 17.2)	113 environmental deficiencies (Table 5)	0

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## 17.1 Safety Summary

Date and Issue Type	February 03, 2022 Other (Vehicle)		
Description	Measures Taken		
<p>Incident 2122</p> <p>A member of the public traveling on the highway in a pickup truck rear-ended a worker's picker truck, and the pickup truck caught on fire. Supervision was called, and the two workers in the picker truck extinguished the fire with the picker truck's fire extinguishers. The RCMP responded to the scene. The two workers in the picker truck were assessed by the medic and cleared to return to full duties.</p>	<p>The learnings from the incident were reviewed at the incident details at the Weekly Safety Meeting.</p>		
Date and Issue Type	February 07, 2022 Other (Vehicle)		
Description	Measures Taken		
<p>Incident 2162</p> <p>A driver of a crew truck pulled off the right-of-way about halfway down a hill to park. As they began to brake, the vehicle began to slide down the hill and it approached the open end of a section of pipe that was placed beside an open ditch/excavation. The driver attempted to brake further but the vehicle's back end moved to the left, making contact with the pipe. The pipe damaged the rear driver side door of the truck. There was no visible damage to the section of pipe. The driver of the crew truck contacted supervision.</p>	<p>The Field Supervisor reviewed the Vehicle Operation Safe Work Practice (SWP), The Winter Driving (SWP), and the Vehicle Operation Hazard Assessment with the worker involved in the incident.</p> <p>The subcontractor Field Supervisor reviewed the incident with the crew and TMEP crew in the weekly HSE meeting.</p>		
Date and Issue Type	February 08, 2022 Other (Vehicle)		
Description	Measures Taken		
<p>Incident 2180</p> <p>A pickup truck backed into a stationary grader. The grader had been used to tow the truck from being stuck on the right-of-way. The tailgate of the pickup was damaged.</p>	<p>A safety meeting was dedicated to the topic of the importance of using spotters and spotter training and spotter use, due to an increase in backing up incidents on the site.</p> <p>A safety memo was distributed related to backup incidents to reiterate the hazards of backing up and the use of spotters.</p>		
Date and Issue Type	February 22, 2022 Other (Vehicle)		
Description	Measures Taken		
<p>Incident 2277</p> <p>A worker was travelling southbound on Hwy 5 when a deer ran onto the highway. The deer made contact with the truck; no injuries sustained to the driver.</p>	<p>The contractor reviewed the incident learnings with the crew at the weekly safety meeting.</p>		
Date and Issue Type	February 23, 2022 Other (Fire)		
Description	Measures Taken		

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<p>Incident 2287</p> <p>A worker was heating up the rollers of a side boom with a tiger torch when the Cat tarp around the engine compartment caught fire. The worker turned off the torch and retrieved a 20 lb fire extinguisher from a nearby truck and extinguished the fire. No workers were injured.</p>	<p>A "Tiger Torch" Job Safety Assessment was developed and distributed to the crews.</p> <p>The contractor reviewed the incident learnings at the Weekly Safety Meeting.</p>
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## 17.2 Security Summary

Date	Issue Type	Description	Measures Taken
Feb 25, 2022	Disgruntled Land Owner blocked right-of-way	Right-of-way blocked by disgruntled landowner, disagreement over compensation for lumber removed from his property.	Security developed a good rapport and landowner behaviour improved. Police notified; no charges contemplated.


## 18.0 PHASE 30: SPREAD 5A (KP 806 – 990) GCC - SMJV

<b>Construction Progress</b> Construction activities executed in Spread 5A during February 2022 included re-commencement of Coldwater River #4 HDD, Coldwater Western Alternative Re-route clearing activities and mainline work (clearing, stripping, grading, trenching, welding, lowering, backfilling, etc.) from KP 858 – 926.			
<b>Issues and Non-Compliances</b>			
Safety Issue	Security Issue	Environment Event	Non-Compliance
7 (Section 18.1)	1 (Section 18.2)	57 environmental deficiencies (Table 5)	0

## 18.1 Safety Summary


Date and Issue Type	February 03, 2022 Medical Aid		
Description	Measures Taken		
<p>Incident 2121</p> <p>After measuring stacked drill pipe in the pipe tube, a worker slipped and fell forward, striking their knee on rig matting. In trying to prevent the fall, the worker strained their left shoulder.</p>	<p>The HSE Manager visited the site to complete an investigation and conduct a Safety Meeting with the crew that discussed the following:</p> <ul style="list-style-type: none"> <li>Incident details, causes, and possible corrective actions.</li> <li>Review and acknowledgement of proper reporting and maintaining focus.</li> <li>Commended workers on their admirable work</li> </ul> <p>The worker has been advised on the requirements to wear suitable footwear prior to returning to full duties.</p> <p>Management developed a control to eliminate and/or mitigate the risk to a worker(s) who must check/measure the "drill pipe" that is stacked. This could involve, but not limited to, adding removable short ladder to assist workers in descending pipe tub.</p>		



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Date and Issue Type	February 04, 2022 Other (Vehicle)	
Description	Measures Taken	
<p>Incident 2140</p> <p>Upon exiting a road, a worker lost control of their fleet vehicle and collided with a snow barrier rope and T-post on the side of the road. The T-post and the fleet vehicle's driver's side running board were damaged.</p>	<p>The contractor reviewed the incident process with emphasis on freezing the scene and communication to the TMEP field team at the weekly field safety meeting,</p>	
Date and Issue Type	February 05, 2022 Other (Vehicle)	
Description	Measures Taken	
<p>Incident 2145</p> <p>A medic was driving a Mobile Treatment Centre (MTC) truck on the highway when their truck lost traction and ended up in the median. The roadway was slippery and had not been sanded. The vehicle came to rest in deep snow and against small trees. The medic was not injured. Damage occurred to the front end, side quarter panel, and windshield of the MTC truck.</p>	<p>The contractor supervision reviewed its Journey Management Policy, Procedure and Field Level Hazard Assessment (FLHA) training with personnel onsite.</p> <p>The contractor's supervisor reviewed the Safe Driving Policy, Procedures and FLHA training with the driver involved in this incident.</p>	
Date and Issue Type	February 12, 2022 High Potential Near Miss	
Description	Measures Taken	
<p>Incident 2207</p> <p>A subcontractor crew truck with fuel tank pulled up to an excavator for refueling. The fuel truck operator waved at personnel when arriving on site. The equipment operator was not in the excavator cab at that moment, but the excavator was running. The fuel truck worker climbed up on the excavator and proceeded to fill the excavator with fuel. Once fueled up, the fuel truck worker then climbed down to shut the pump off. The operator of the excavator returned to his cab after discussions with crew members and was unaware the excavator was being filled with fuel on the opposite side to the cab. They proceeded to move the excavator in a forward motion approximately 5ft with the hose still in the tank. Due to enough slack in the hose no fuel spill was recorded. The fuel truck worker signaled the operator who stopped excavator operator immediately. The fuel truck worker was not on the excavator at the time of the incident. No damage to equipment or injury because of this Near Miss.</p>	<p>The contractor reviewed the incident at the Weekly Safety Meeting.</p> <p>The subcontractor provided a new procedure for fueling to ensure that there is communication made between the fuel truck worker and any equipment operators before fueling commences. The procedure also outlined that equipment must be shut down and turned off.</p>	
Date and Issue Type	February 15, 2022 Medical Aid	
Description	Measures Taken	
<p>Incident 2229</p> <p>A clearing crew worker was hooking up choker cables for line skidding. As the worker pulled away, a tree caught on a stump causing the tree to swing, striking the worker in the face. The worker was observed on the ground, unresponsive and with bruising and a cut to the area around their right eye. The medic was contacted and dressed the wound. The worker was conscious, and vitals were good</p>	<p>This incident is under investigation.</p>	



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before being transported to the local hospital where the worker received medical treatment.		
Date and Issue Type	February 24, 2022 Other (Vehicle)	
Description	Measures Taken	
<p>Incident 2296</p> <p>A contractor low boy had been stopped by a third party traffic control flag person (not project-related) who was positioned with no signs warning of upcoming potential stoppage. When the driver was signaled to proceed, the truck started to move forward, and the trailer slid a bit sideways on the icy roadway and made slight contact with the third party traffic control truck which had been parked at the side of a snow bank against the roadway. No personnel were in the line of fire. Minor damage to third party vehicle.</p>	<p>A review of situational awareness was conducted with the contractor's driver to determine times where it will be necessary to instruct other vehicles to move as a precaution in order to avoid the possibility of being hit.</p>	
Date and Issue Type	February 26, 2022 Other (Vehicle)	
Description	Measures Taken	
<p>Incident 2311</p> <p>A contractor Traffic Control person was backing up their crew truck in preparation to turn around and head the opposite direction. When backing up, the truck made contact with a parked UTV trailer belonging to a TMEP Subcontractor, causing minor damage to the UTV trailer wheel fender. No damage to the contractor vehicle. No personnel in line of fire.</p>	<p>The incident was reviewed in the Weekly Safety Meeting.</p> <p>The contractor's disciplinary policy was enacted against the driver.</p> <p>A full review of the contractor's spotting program, was facilitated by the contractor's safety team and the driver and passenger involved in this incident.</p>	

## 18.2 Security Summary

Date	Issue Type	Description	Measures Taken
Feb 26, 2022	Theft of Project Documentation	Construction Manager discovered documents and maps missing from office walls. Suspected disgruntled terminated employee, accessed office prior to departure from Office.	Security personnel investigating, statements taken, video cameras being reviewed, one suspect however no direct evidence at this time.


## 19.0 PHASE 30: SPREAD 5B (KP 990 – 1075) GCC – KIEWITT-BONATTI

<b>Construction Progress</b> Construction activities focused on right-of-way preparation, access road development, preparation and installation of pipeline and vehicle watercourse crossings, lowering in and backfill activities, and preparing for spring freshet.			
<b>Issues and Non-Compliances</b>			
<b>Safety Issue</b>	<b>Security Issue</b>	<b>Environment Event</b>	<b>Non-Compliance</b>
9 (Section 19.1)	3 (Section 19.2)	308 environmental deficiencies (Table 5)	0


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## 19.1 Safety Summary


Date and Issue Type	February 08, 2022 High Potential Near Miss	
Description	Measures Taken	
<p>Incident 2175</p> <p>A worker was observed travelling southbound on a highway when the worker applied their brakes, slid on the highway to a stop, placed the vehicle in reverse and utilized an emergency turn around to change their direction of travel.</p>	<p>A Safety stand down was held at the site of the incident with all workers. The safety stand down reflected the importance of life saving rules and doing the right thing even when no one is looking, no rushing to get things done and short cuts lead to injury.</p> <p>The contractor's safety personnel discussed with the workers that they are no longer allowed to use the emergency turnaround that was previously used.</p> <p>The driver received an immediate suspension of driving privileges during the investigation.</p> <p>The Contractor installed "In Vehicle Monitoring System" to all the contractor vehicles.</p>	
Date and Issue Type	February 04, 2022 High Potential Near Miss	
Description	Measures Taken	
<p>Incident 2187</p> <p>Two workers were observed working at height without fall protection. The workers were walking on a crossbeam, installing a tarp at the top of a trench box.</p>	<p>The subcontractor held a safety stand down with all subcontractor foreman and crews.</p> <p>The contractor's management held small individual group meetings to maintain effective communication, groups no larger than 20 - 30 people giving the crews direct communication with the subcontractor management.</p> <p>A new Job Hazard Assessment (JHA) was developed by the frontline foreman and the subcontractor's safety department for working in and around trench boxes.</p> <p>The new JHA was distributed to the crews for sign off Feb 11th. The subcontractor crews that are working installing, removing and dismantling trench boxes were required to review and sign both JHAs prior to returning to work.</p> <p>All subcontractor's employees that work in and around trench boxes completed refresher trench box awareness training.</p> <p>The subcontractor's crew member and subcontractor's HSE advisor were given a written non-compliance with 3-day suspension without pay.</p> <p>TMEP safety group provided a Life Saving Rule (LSR) refresher with the TMEP field inspection group.</p> <p>TMEP Chief inspector completed a safety stand down with TMEP field inspection group; reviewing the roles and responsibility of the inspections' team.</p> <p>All subcontractor's supervision completed and/or refreshed Leadership for safety excellence training.</p> <p>The Straw Boss (supervisor) was terminated due to the severity of the infraction.</p> <p>The TMEP Inspector involved in the incident was also terminated.</p>	

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Date and Issue Type	February 10, 2022 Other (Vehicle)	
Description	Measures Taken	
<p>Incident 2198</p> <p>At the end of the work shift, a worker was in the process of towing the automated flagging devices (AFADS) back to a yard. Due to poor lighting conditions, the worker did not see a large pothole on the right side of the road. The truck ran over the pothole causing the trailer to come off the truck hitch. When the driver stopped, the hitch went under the rear end of the pickup and lodged itself under the rear bumper, causing minor damage to the tailgate of the pickup. The worker stated that they did inspect the hookup before driving, the hitch pin was installed and the chains were hooked up on the hitch. The worker also stated they looked for the pin and could not find it; it is assumed that the pin fell out at some point.</p>	<p>The contractor developed and reviewed the trailer hook up procedure with the crew.</p> <p>A pin was missing at time on incident, the contractor replaced all the pins to be sure that there is no damage and the failsafe is working correctly. The pins were distributed in the Feb 12th safety meeting.</p> <p>The pothole was reported and repaired; other potholes in the nearby area were marked with cones.</p>	
Date and Issue Type	February 11, 2022 Other (Vehicle)	
Description	Measures Taken	
<p>Incident 2204</p> <p>A slow roll procedure was to be followed to safely enter and exit an access road from the highway. A highboy truck and trailer began traveling onto the roadway before the call for the final vehicle was finished by the traffic controller, deviating from the agreed procedure. The driver did not check over their shoulder before crossing the center line, when a third-party vehicle made contact with the truck's front driver's side axle and bumper before sliding approximately 96 m down the roadway. The scene was frozen, and supervision was contacted. The RCMP attended the scene.</p>	<p>Revised slow roll procedure clarifying radio commands to those involved in the access/egress of roadways. There was a slow roll pre-brief to include process for identifying high risk locations and additional controls.</p> <p>When applicable, an additional traffic control person is to be positioned at the access point to receive the commands and direct vehicles when to enter the roadway.</p> <p>The contractor prepared and distributed a lesson learned bulletin on the incident.</p>	
Date and Issue Type	February 12, 2022 Other (Vehicle)	
Description	Measures Taken	
<p>Incident 2208</p> <p>A worker was backing down an access road due to oncoming traffic when they made contact with the driver's side door of a vehicle parked on the shoulder. The vehicle was unoccupied at the time of the event. It was identified that the worker failed to properly detect the damages and by leaving the scene without first notifying the involved party, were in violation of their responsibilities when a motor vehicle incident occurs. The driver of the vehicle causing the damage contacted the safety hotline late after the event was reported by the owner of the vehicle.</p>	<p>The worker was suspended (3 days), and their driving privileges for company vehicles revoked indefinitely until cleared by the Project Manager once the driver undergoes a driver's re-evaluation.</p> <p>The worker took the subcontractor Spotter Training.</p> <p>A Safety bulletin was released which focused on proper communication and radio use on the right-of-way.</p>	
Date and Issue Type	February 13, 2022 Other (Vehicle)	
Description	Measures Taken	
<p>Incident 2211</p> <p>Crew truck was backing up when the rear flat deck made contact with the bumper of another crew truck. No damage to either vehicle as the vehicle was travelling at very slow speed.</p>	<p>The learnings of the incident were reviewed with the crews.</p>	

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		The driver was required to re-take the subcontractor Spotter Training.	
Date and Issue Type		February 14, 2022 High Potential Near Miss	
Description		Measures Taken	
<p>Incident 2213</p> <p>A pipe was placed into position by a side boom, and the pipe was secured using an internal clamp while a welder completed the bead. Once this was completed, the welder was positioned under the pipe performing a hot pass when the side boom operator was directed to raise the tail end of the pipe approximately 1 inch and 3 skids were removed from the cribbing. After removing the skids, the pipe was lowered, transferring the weight of the pipe onto the second and third sets of cribbing. Due to the grade of the right-of-way, the weight was unevenly distributed on the cribbing causing skids to break in the second (3 skids failed) and the third (2 skids failed) sets of cribbing. When the welder heard the skids break, they stopped welding and moved away from the pipe without injury. Work was stopped and the scene was frozen.</p>		This incident is under investigation.	
Date and Issue Type		February 16, 2022 Medical Aid	
Description		Measures Taken	
<p>Incident 2237</p> <p>A worker was exiting a trench box using a fixed ladder. As the worker reached for the top rung, they lost their grip and fell to the bottom of the excavation. The worker landed on a 36-inch pipe on their left arm and hip. The worker was unable to stand under their own strength. The emergency hot line and the medic were called. The rescue team was mobilized and removed the worker from the excavation and the worker was transported to the local hospital by ambulance.</p>		<p>The subcontractor consulted with Finning on options for a different ladder system. The subcontractor ordered alternative ladders and will have them on site once they arrive.</p> <p>A safety bulletin was distributed in the worksite showing the different types of stationary ladders available and when/how to use them.</p> <p>The worker was removed from the project for denying Drug &amp; Alcohol testing. Denial goes against policy and procedure.</p> <p>The subcontractor Safety Team went out to the field and did a full inspection on all trench boxes and the degree that the ladders were sitting at. All that are over 2 degrees from vertical were tagged out and actioned by the foreman to have them fixed and realigned.</p>	
Date and Issue Type		February 18, 2022 High Potential Near Miss	
Description		Measures Taken	
<p>Incident 2255</p> <p>A worker was observed performing an unauthorized U-turn in an emergency turnaround lane on the highway.</p>		A site wide communication was distributed to bring attention to site traffic requirements and the legal responsibilities regarding traffic access points.	

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## 19.2 Security Summary

Date	Issue Type	Description	Measures Taken
Feb 01, 2022	Aggressive Landowner	Disgruntled neighbour to Laidlaw work areas had concerns with flags and signs put up in area and became very vocal and threatening. Indicated he would pull a knife if anyone came near his property. Individual is well known to TMEP Security and have had numerous previous interactions.	RCMP were in attendance and de-escalated the individual, who left the area. No criminal charges contemplated.
Feb 12, 2022	Theft of Property	Theft of a Diesel Particulate Filter (from Dozer). Suspects able to walk in via path, close to ROW and access road.	Security scene investigation found a flashlight left behind by suspects. Reported to police. Value \$5000.
Feb 27, 2022	Fight at Local Hope Bar.	Bar Fight at a local Hope liquor establishment involving Kiewitt & Macro employees with general public.	Police notified TMEP Security manager of the event, and advised that there was an associated Driving While Intoxicated charge laid as a result of this incident. Kiewitt and Macro management made aware of the incident.

## 20.0 PHASE 33: SPREAD 6 & PHASE 34: SPREAD 7A (KP ~1075 – 1165.2) GCC - MICHELS


### Construction Progress

Spread 6 & 7A continued with construction activities including:

- Continued clearing, timber processing and removal, access development, including stripping and grade works throughout Popkum No. 2 IR and Bridal Falls Golf Course.
- Continued Sumas River DPI activity to prepare for tunnelling. TMEP's third-party water quality monitors began installing instream sondes and collecting background data ahead of the crossing.
- Continued site preparations with access, fencing, clearing, stripping and grade at Ledgeview Golf Course, Abbotsford, with a focus on ESC mitigation and management.
- Commenced residential fence removal and clearing within Sandy Hill, Abbotsford.
- Hand falling trees across various locations between KP 1132 – 1140.
- Continued development of the Salmon River HDD drag section via matting access within CWP 7.
- Auxiliary yard maintenance at CWP 17 and 45 with a focus on ESC mitigations and surface water management continued.
- Continued pavement milling and borehole drilling for contamination investigation through S&R Sawmills (CWP 32-36).
- Ditching, stringing, welding, coating, pipe installation, bore crossing activity, and backfill commenced and continues in CWP 35, 36 (S&R Sawmills), and 45.
- Clearing, timber processing and removal, and access development commenced and/or continued in CWP's 28, 32, 40, 57, 59A, and 59.
- Continued resource specialist field work including environmental feature staking and flagging, wildlife surveys and salvage planning, raptor nest sweeps, soil assessments, and Archaeological investigations continued ahead of planned pipeline construction.
- Spread 6 and 7A watercourse and wetland crossing field verification and planning continued.


### Issues and Non-Compliances

Safety Issue	Security Issue	Environment Event	Non-Compliance
4 (Section 20.1)	1 (Section 20.2)	19 environmental deficiencies (Table 5)	0

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## 20.1 Safety Summary

Date and Issue Type	February 09, 2022 Other (Vehicle)	
Description	Measures Taken	
<p>Incident 2195</p> <p>Contractor vehicle was stationary at a red light eastbound at the intersection of Gladwin Rd and Hillcrest Dr. A non-project related vehicle (public) made contact with the rear-end of the contractor truck at a low speed. There was very minimal damage and no injuries sustained. Both parties pulled into a nearby parking lot and exchanged information. TMEP Traffic Control and Contractor HSE were contacted and attended the scene.</p>	<p>Incident was reviewed at the next safety meeting for awareness.</p>	
Date and Issue Type	February 10, 2022 Other (Vehicle)	
Description	Measures Taken	
<p>Incident 2201</p> <p>At approximately 11:00 AM, the truck entered an underground parking lot at Surrey City Hall. As the driver was proceeding down the ramp, they observed a car exiting from the parking lot, encroaching their side of the lane. The Contractor driver moved over closer to the wall to avoid hitting the other the car, and as they came to the bottom of the ramp and made the turn into the garage, the truck contacted a metal bollard attached to the wall of the garage.</p>	<p>The worker was instructed to review the vehicle Safe Work Practice.</p>	
Date and Issue Type	February 12, 2022 Other (Vehicle)	
Description	Measures Taken	
<p>Incident 2235</p> <p>A TMEP Inspector went to drive forward away from site in their truck. When they stepped on the gas, their vehicle only moved slightly before it stopped, and the driver realized something was impeding their path of travel. The front of the vehicle was up against a pile of wood that the driver could not see from the driver's seat. No injury or property damage sustained because of this occurrence.</p>	<p>A focus inspection was completed to verify TMEP Inspectors are completing 360 degree walk around of their vehicles prior to driving.</p>	
Date and Issue Type	February 22, 2022 Property Damage (Equipment)	
Description	Measures Taken	
<p>Incident 2268</p> <p>The water truck operator was asked to water down the road beside the Bore Bay S&amp;R Mill. The operator put the truck in low range and turned on the hydraulic pump on and proceeded to water down the road. As the driver started down the hill just past the Bore Bay, the engine started revving up and a loud noise was heard by the operator. The operator thought they hit a pothole. When the operator went to fill the tank, they noticed that the tank had imploded. The operator discovered that the tank had damage on both ends. Upon further inspection, the operator found that the 3" Vent line had been capped off.</p>	<p>The water truck operator competency was developed and implemented.</p> <p>The worker was disciplined for not following the contractor's policy and procedures on filling and inspecting equipment.</p> <p>A sign was posted on the vent tube to remind all to keep open, "do not attach hose or cap".</p>	

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## 20.2 Security Summary

Date	Issue Type	Description	Measures Taken
Feb 21, 2022	Theft of Equipment	Near KP11 58, shelter tent & chairs used by Stantec Archaeology crew stolen on site, when left overnight.	Security investigation followed footprints to a nearby parking lot. No suspects. Police notified for information purposes only, Stantec will secure equipment when not on site.

## 21.0 PHASE 36: SPREAD 7B (KP 1165.2 - 1180.15) GCC - KLTP

<b>Construction Progress</b> As of the end of February 2022, right of way preparation is ongoing on 25 work fronts, and 20 work fronts are in full pipeline construction and 4 work fronts have been completed. The work fronts are within the following KPs: 1165 to 1179.85			
<b>Issues and Non-Compliances</b>			
Safety Issue	Security Issue	Environment Event	Non-Compliance
0	2 (Section 21.1)	10 environmental deficiencies (Table 5)	0


## 21.1 Security Summary

Date	Issue Type	Description	Measures Taken
Feb 1, 2022	Incursion on ROW KP1177	Protestors climbed on top of perimeter fencing, work stopped. Known protestor.	Police notified, however protestor left before Police attendance.
Feb 23, 2022	Protest Blocked access to ROW KP1177	Group of 3 protestors blocked access road to ROW KP1177, access blocked for approx. 30 minutes.	Police called and arrived, protestors departed following police arrival. No charges contemplated.

## 22.0 PHASE 39: BURNABY TUNNEL

<b>Construction Progress</b> <b>Tunnel Portal:</b> Mining at the 847m point; e.			
<b>Issues and Non-Compliances</b>			
Safety Issue	Security Issue	Environment Event	Non-Compliance
2 (Section 22.1)	0	7 environmental deficiencies (Table 5)	0



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## 22.1 Safety Summary


Date and Issue Type	February 02, 2022 High Potential Near Miss		
Description	Measures Taken		
<p>Incident 2129</p> <p>A tunnel locomotive train operator was driving to begin the next mining cycle. The train configuration was as follows: TBM (Tunnel Boring Machine) side segment car, segment car, flat car, loci, muck car, muck car, muck car, muck car, man car on portal side. The Loci was pushing the muck cars and the un-occupied man car.</p> <p>As the train approached a low spot in the tunnel the unoccupied man-car derailed. The operator immediately stopped and contacted supervision. No material or personnel were present on the train at the time of the derailment. A derailling plan was created however, it was not reviewed by all parties. The man-car was elevated and placed back onto the chassis. Once out of the tunnel the car was taken out of service for inspection. There were no damages identified.</p>	<p>The contractor changed the position of the man car within the train line to minimize the potential for the derailment of the man car.</p> <p>The contractor removed sandbags and replaced them with temporary walkway.</p> <p>The contractor cleaned up the tunnel invert.</p> <p>The contractor created a temporary staging area to accommodate the disposal of the accumulated muck from the tunnel invert.</p> <p>The contractor secured the man car to the chassis.</p>		
Date and Issue Type	February 17, 2022 High Potential Near Miss		
Description	Measures Taken		
<p>Incident 2249</p> <p>The tunnel locomotive train was at the Tunnel Boring Machine (TBM) filling the muck cars with excavated material. As the train moved backwards to fill up the next muck car the operator initiated the brakes, but the muck car brakes did not engage with the locomotive brakes as intended. The train continued to go down the inclined section of the tunnel until it rested in the flat section. The locomotive operator stopped and called for the subcontractor to come and investigate. No personnel were present on the train or in the line of fire, and no cars derailed.</p>	<p>This incident is under investigation.</p>		

## 23.0 TEMPORARY INFRASTRUCTURE

### 23.1 Spreads 1 and 2 – Temporary Infrastructure Sites

<p><b>Construction Progress</b> – stockpile storage as February 26, 2022.</p> <p><b>ENO055 Enoch Stockpile Site</b> –Ongoing pipe storage and yard security. Received 50,414 m of pipe. Released 50,414 m to Spread 1 GCC.</p> <p><b>EDS003.2 Edson Stockpile Site</b> – Ongoing storage and yard security; Received 195,498 m of pipe. Released 187,461 m to Spread 2 GCC; 2,026 m to Reactivation O&amp;M; 1,019 m to Facilities. Bends, valve assemblies and miscellaneous equipment received and released at site.</p> <p><b>ENO047 Northgate Stockpile Site</b> – Ongoing pipe storage and yard security; Received 99,257 m of pipe or 99% of anticipated inventory. Released 55,590 m to Spread 2 GCC, and 162 m to Facilities. Construction bends, valve assemblies and miscellaneous equipment received and released at site.</p>			
<b>Issues and Non-Compliances</b>			
<b>Safety Issue</b>	<b>Security Issue</b>	<b>Environment Event</b>	<b>Non-Compliance</b>
0	0	3 environmental deficiencies (Table 5)	0



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### 23.2 Spread 3 – Temporary Infrastructure Sites


<b>Construction Progress</b> - stockpile storage as of February 26, 2022 <b>VAL025 Valemount Stockpile Site</b> - Received 126,855 m of pipe or 101% of anticipated inventory. Released 55,292 m to Spread 3 GCC and 150 m to Facilities; Bends and miscellaneous equipment received and released at site. <b>VAL026.1 Valemount Office/Yard</b> – Ongoing use as construction office and yard <b>VAL028 Valemount Camp</b> – Camp is open and operating in compliance with COVID procedures and protocols. Daily occupancy varied in February from 118-455 camp residents (average 343). <b>BLU007 Blue River Camp</b> – The accommodation trailers are now open and operating in compliance with COVID procedures and protocols. Beginning in February, occupancy varied from 16-117 camp residents (average of 65).			
<b>Issues and Non-Compliances</b>			
<b>Safety Issue</b>	<b>Security Issue</b>	<b>Environment Event</b>	<b>Non-Compliance</b>
0	0	6 environmental deficiencies (Table 5)	0

### 23.3 Spread 4 – Temporary Infrastructure Sites

<b>Construction Progress</b> – as of February 26, 2022 <b>Clearwater Camp (CLE011)</b> – Camp is operating in compliance with COVID procedures and protocols. Daily occupancy in February ranged from 408-435 camp residents (average 423). <b>Vavenby Stockpile Site (VAV009)</b> - Received 156,339 m of pipe. Released 24,172 m to Spread 4A, 46,200 m to Spread 4B, and 532 m to Facilities. Bends and miscellaneous equipment received and released at site.			
<b>Issues and Non-Compliances</b>			
<b>Safety Issue</b>	<b>Security Issue</b>	<b>Environment Event</b>	<b>Non-Compliance</b>
0	0	1 environmental deficiency (Table 5)	0

### 23.4 Spread 5 – Temporary Infrastructure Sites

<b>Construction Progress</b> – stockpile storage as of February 26, 2022 <b>KAM013 Cando Rail Stockpile Site</b> – Ongoing pipe delivery, storage and security; Received 115,400 m of pipe. Released 74,602 m to Spread 5A (north) and 6,810 m to Spread 5A (south); 832 m released to Facilities. Bends and miscellaneous equipment received and released at site. <b>HOP052 Hope Stockpile Site</b> – Ongoing pipe delivery, storage and yard security; Received 85,351 m of pipe or 96% of anticipated inventory; 14,237 m released to support Spread 5B 299 m released to Spread 6 and 84 m to Facilities. Bends and miscellaneous equipment received and released at site. <b>MER015 Merritt Stockpile Site</b> – Received 92,117 m of pipe or 97% of anticipated inventory; 21,769 m has been released to support Spread 5A (south) construction; Bends and miscellaneous equipment received and released at site. Three bends reassigned to Spread 5B. <b>MER015 Merritt Camp</b> – Camp is operating in accordance with COVID protocols. Daily occupancy in February varied from 87-211 (average 178). <b>HOP053 Ohamil Camp</b> – Camp is operating in accordance with COVID protocols. Daily occupancy in February ranged from 246-303 camp residents (average 274). <b>POP065 Popkum Yard</b> – ongoing use as main construction yard for Spread 5B. <b>HOP071</b> – Emil Anderson Shop – ongoing use as construction yard and mechanical shop <b>TWS 1020 and TWS 1020.6</b> – ongoing use as construction offices <b>HOP073</b> – Hockin Pit Yard – trailers being installed <b>HOP075</b> – Skagit Yard – ongoing use as construction office and yard			
<b>Issues and Non-Compliances</b>			

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Safety Issue	Security Issue	Environment Event	Non-Compliance
1 (Section 23.4.1)	0	17 environmental deficiencies (Table 5)	0

#### 23.4.1 Safety Summary


Date and Issue Type	February 23, 2022 Medical Aid	
Description	Measures Taken	
<b>Incident 2291</b> A worker was relocating a wall-mounted bag-in-box style dispenser for cleaning products to make room for a new storage shelf. As the worker replaced the bag of Peroxide Multi-Surface cleaner into the wall-mounted holder, a small amount (assumed less than 1/4 teaspoon) of product exited through the dispensing valve and splashed into workers left eye. The worker immediately flushed eye with eyewash for 15 minutes, as per the SDS. The worker then went to the onsite Occupation Health Clinic, where the eye was flushed for an additional 30 minutes with sterile saline. Under the direction of the on-call 24/7 OEMS physician and as a precaution the worker was referred to Chilliwack General Hospital for further assessment.	The workers are to wear safety glasses in the janitor closets that do not have the proper dispersing system. Hazard Controls were discussed regarding this incident.  All janitor closets were switched out to the proper chemical dispersing system.	

#### 23.5 Spread 6 – Temporary Infrastructure Sites

<b>Construction Progress</b> – stockpile storage as of February 26, 2022 <b>LAC064</b> – Lackaway - Received 65,393 m of pipe or 92% of line pipe; 37 m has been released to Spread 6 construction. Bends and miscellaneous equipment received and released at site.			
Issues and Non-Compliances			
Safety Issue	Security Issue	Environment Event	Non-Compliance
0	0	0	0

#### 23.6 Sumas Terminal – Temporary Infrastructure Sites

<b>Construction Progress</b> <b>SUM061 Sumas Terminal Laydown Yard:</b> The yard is in use supporting ongoing work at Sumas Terminal. <b>SUM062 37117 North Parallel Road :</b> The lot is in service for crew parking			
Issues and Non-Compliances			
Safety Issue	Security Issue	Environment Event	Non-Compliance
0	0	0	0

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## 23.7 Westridge Marine Terminal and Spread 7 – Temporary Infrastructure Sites

<b>Construction Progress:</b> February 26, 2022 <b>Canfor Laydown Site</b> (NEW 044): All pipe has been transferred to King Edward St. Trans Mountain's use of the site for material laydown and parking will continue on a month by month basis. <b>2 King Edward St.</b> (COQ060) Received 44,398 m of pipe to date; 98% of anticipated inventory. Released 6,077 m to Spread 7 GCC and 71 m released to support Westridge construction. Bends and miscellaneous equipment received and released at site. <b>Commissioner St. Yard</b> (VAN 048) : Site is being used for assembly of marine loading arms and storage of permanent materials for WMT. <b>Barnet Hwy</b> (BUR 049): ongoing parking, construction office, minor stockpile for construction materials <b>150 Glacier, Coquitlam:</b> Office space and storage and maintenance shop leased on existing industrial property and in current use. <b>4001 Remi Place, Burnaby</b> (BUR057): 21,000 ft <sup>2</sup> warehouse facility leased within existing industrial property; The building has been configured for use as a warehouse and is currently used as a warehouse and a training facility. <b>88 Golden Drive</b> (COQ061): construction office occupied and material storage commenced; additional office trailers installed and site upgrades to security systems completed. <b>Pitt River Road</b> (PIT062): Parking and material storage. <b>Surrey 19298 98A Ave</b> (SUR021): ongoing equipment and material storage <b>Surrey 19395 98A Ave</b> (SUR022): security installation completed. Lot is currently empty and will be used for parking Spread 7 craft <b>1701 Loughheed Highway</b> (COQ067): ongoing parking			
<b>Issues and Non-Compliances</b>			
<b>Safety Issue</b>	<b>Security Issue</b>	<b>Environment Event</b>	<b>Non-Compliance</b>
0	0	1 environmental event (Section 23.7.1, Table 4)	0

### 23.7.1 Environment Summary

#### Environmental Events

A description of environmental events and their resolution is provided below.

ID # & Date	Loc.4.17.2.ENV.021822.00164438 February 17, 2022
Description	Due to a period of heavy rainfall, sedimentation was observed offsite adjacent to a City of Burnaby pathway.
Requirement	Temporary Construction Lands EPP, Section 7.0, Measure 96
Measures Taken	The source of the sedimentation was identified as uncompacted fill material. The material was compacted. (Complete) Additional straw wattles were installed along the north edge of the site. (Complete)

TABLE 4: ENVIRONMENTAL EVENTS REPORTED IN FEBRUARY 2022 PHASES 1-23																					
Phase		1	2	3	4	5	6	9	10	11	12	13	14	15	16	17 <sup>(a)</sup>	18	19	21	22	23
Location		Westridge Marine Terminal	Edmonton Terminal	Sumas Terminal	Burnaby Terminal	Jasper Pump Station	Black Pines Pump Station	Edmont on Pump Station	Gainford Pump Station	Wolf Pump Station	Edson Pump Station	Hinton Pump Station	Blue River Pump Station	McMurphy Pump Station	Blackpool Pump Station	Black Pines Pump Station	Kamloops Pump Station	Kingsvale Pump Station	Line 1 (valves)	Hinton to BC Border Reactivation	BC Border to Hargreaves Reactivation
Description	Land & Soil	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0
	Vegetation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0
	Water	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0
	Air & Noise	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0
	Fish & Wildlife	1	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0
	Waste & Hazardous Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0
	Heritage Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0
	Trespass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0
	Biosecurity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0
	Totals	1	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0

TABLE 4: ENVIRONMENTAL EVENTS REPORTED IN FEBRUARY 2022 PHASES 24-39																								
Phase		24	26 & 27	28 & 29	29	30	30	31	32	33 & 34	34	35	36	37	38	39	Temporary Infrastructure							
Location		Darfield to Black Pines Reactivation	Spread 1/2	Spread 3/4a	Spread 4b	Spread 5a	Spread 5b	Spread 5, C39 Coldwater Hydrological	Spread 5, C7 Ohamil	Spread 6/7a	Spread 6, C7 Tzeachten	Spread 6, C77 Lightning Rock	Spread 7b	Spread 7, C7 Surrey Bend	Westridge Delivery Lines	Burnaby Tunnel	Spread 1	Spread 2d	Spread 3	Spread 4	Spread 5	Spread 6	Sumas Terminal	Westridge Marine Terminal & Spread 7
Description	Land & Soil	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Vegetation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Water	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Air & Noise	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Fish & Wildlife	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Waste & Hazardous Materials	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Heritage Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Trespass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Biosecurity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

Note: Construction has started in Phases shaded blue. Non-compliances and reportable spills are not included in these tables. <sup>(a)</sup> Reported as part of Phase 6.

TABLE 5: ENVIRONMENTAL DEFICIENCIES REPORTED IN FEBRUARY 2022 PHASES 1-23																						
Phase		1	2	3	4	5	6	9	10	11	12	13	14	15	16	17 <sup>(a)</sup>	18	19	21	22	23	
Location		Westridge Marine Terminal	Edmonton Terminal	Sumas Terminal	Burnaby Terminal	Jasper Pump Station	Black Pines Pump Station	Edmonton Pump Station	Gainford Pump Station	Wolf Pump Station	Edson Pump Station	Hinton Pump Station	Blue River Pump Station	McMurphy Pump Station	Blackpool Pump Station	Black Pines Pump Station	Kamloops Pump Station	Kingsvale Pump Station	Line 1 (valves)	Hinton to BC Border Reactivation	BC Border to Hargreaves Reactivation	
Description	Land & Soil	2	0	5	18	0	0	0	0	0	0	0	1	0	0	—	0	0	0	0	0	
	Vegetation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0	0	0	0	0	
	Water	2	0	0	16	0	0	0	0	0	0	0	0	0	0	—	0	0	0	0	0	
	Air & Noise	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0	0	0	0	0	
	Fish & Wildlife	0	0	2	0	0	0	0	0	0	0	0	0	0	0	—	0	0	0	0	0	
	Waste & Hazardous Materials	3	0	7	33	0	1	0	0	0	0	0	1	6	1	—	0	1	0	0	0	
	Heritage Resources	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0	0	0	0	0	
	Trespass	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0	0	0	0	0	
	Biosecurity	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0	0	0	0	0	
	Contaminat ion	0	0	0	0	0	0	0	0	0	0	0	0	0	0	—	0	2	0	0	0	
	Totals	7	0	14	67	0	1	0	0	0	0	0	2	6	1	—	0	3	0	0	0	

TABLE 5: ENVIRONMENTAL DEFICIENCIES REPORTED IN FEBRUARY 2022 PHASES 24-39																									
Phase		24	26 & 27	28 & 29	29	30	30	31	32	33 & 34	34	35	36	37	38	39	Temporary Infrastructure								
Location		Darfield to Black Pines React.	Spread 1/2	Spread 3/4a	Spread 4b	Spread 5a	Spread 5b	Spread 5, C39 Coldwater Hydrologic al	Spread 5, C7 Ohamil	Spread 6/7a	Spread 6, C7 Tzeachte n	Spread 6, C77 Lightnin g Rock	Spread 7b	Spread 7, C7 Surrey Bend	Westridg e Delivery Lines	Burnaby Tunnel	Spread 1	Spread 2	Spread 3	Spread 4	Spread 5	Spread 6	Sumas Terminal	Westridge Marine Terminal & Spread 7	
Description	Land & Soil	0	11	14	51	33	190	0	0	5	0	0	4	0	0	2	0	0	0	0	2	0	0	0	
	Vegetation	0	2	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Water	0	45	38	21	12	17	0	0	2	0	0	4	0	0	0	0	0	0	0	0	0	0	0	
	Air & Noise	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Fish & Wildlife	0	1	3	0	1	18	0	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
	Waste & Hazardous Materials	0	3	27	38	4	63	0	0	6	0	0	0	0	0	5	0	3	6	1	15	0	0	0	
	Heritage Resources	0	5	0	0	5	5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Trespass	0	0	0	3	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Biosecurity	0	0	1	0	0	11	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
	Contaminati on	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Totals	0	67	84	113	57	308	0	0	19	0	0	0	10	0	0	7	0	3	6	1	17	0	0	0

TABLE 5: ENVIRONMENTAL DEFICIENCIES REPORTED IN FEBRUARY 2022 PHASES 24-39																							
Phase	24	26 & 27	28 & 29	29	30	30	31	32	33 & 34	34	35	36	37	38	39	Temporary Infrastructure							
Location	Darfield to Black Pines React.	Spread 1/2	Spread 3/4a	Spread 4b	Spread 5a	Spread 5b	Spread 5, C39 Coldwater Hydrologic al	Spread 5, C7 Ohamil	Spread 6/7a	Spread 6, C7 Tzeachte n	Spread 6, C77 Lightnin g Rock	Spread 7b	Spread 7, C7 Surrey Bend	Westridg e Delivery Lines	Burnaby Tunnel	Spread 1	Spread 2	Spread 3	Spread 4	Spread 5	Spread 6	Sumas Terminal	Westridge Marine Terminal & Spread 7
Note: Construction has started in Phases shaded blue. Non-compliances and reportable spills are not included in these tables. <sup>(a)</sup> Reported as part of Phase 6.																							