

INDIGENOUS MONITOR OVERVIEW REPORT

Month: February 2020

Indigenous Monitors days on-site: 24

**Project Region: Jasper to Mount
Robson Reactivation (Hinton to
Hargreaves)**

**Kilometre Posts (KPs) monitored: KP
338-403**

Indigenous Monitors on Trans Mountain Reactivation Activities – Overview

The Trans Mountain Expansion Project (the Project) is retaining Indigenous Monitors as integrated members of its construction Environmental Inspection team. Indigenous Monitors work with Environmental Inspectors to monitor compliance with approved mitigation measures in order to minimize impacts to traditional resource use and cultural/heritage impacts during TMEP construction.

Operations and maintenance work, including integrity digs occurring along the deactivated pipeline segments in Jasper National Park and Mount Robson Provincial Park, is not part of TMEP nor subject to TMEP Conditions. However, Trans Mountain will be including Indigenous Monitors during certain operations and maintenance work in reactivation areas, as it relates to preparing for future TMEP construction activities.

This Overview Report provides highlights of the Indigenous Monitors' day-to-day work and key highlights observed by the Monitors in the Jasper to Mount Robson Reactivation region (Hinton to Hargreaves), specifically Jasper National Park. The purpose of this report is to provide an update on Indigenous Monitor activity to Indigenous groups.

During this reporting period, key activities in the Jasper to Mount Robson Reactivation region involving Indigenous Monitors included inspection and monitoring activities in Jasper National Park related to biosecurity measures, wildlife sweeps, topsoil/subsoil management including salvage and storage, watercourse bridge installation, water quality measurement activities, fish salvage efforts, access requirements and vegetation mitigation, and instream pipe replacement.

For more information: email info@transmountain.com or call 1.866.514.6700.

Biosecurity – Vehicle, Equipment, and Protective Matting Inspections

Biosecurity cleaning requirements refers to measures implemented during construction to prevent the introduction or transfer of invasive weeds species and aquatic pests, and to reduce any potential for contamination. In Jasper National Park, biosecurity measures include ensuring all vehicles, equipment and materials working in the park are cleaned in accordance with approved documents and as per Parks Canada requirements and are in good working condition. The Indigenous Monitors were monitoring and inspecting the cleaning and sanitizing of vehicles and equipment entering the park, including crew trucks, excavators and hydrovac trucks. They also inspected the condition of the protective matting used to provide a barrier between topsoil and vegetation in areas where equipment needs to access the pipeline right-of-way.

In Jasper National Park, specific cleaning protocols are also followed for equipment working in or near water to prevent the spread of Whirling Disease, a parasitic freshwater disease that affects most salmonids. The Indigenous Monitors inspected as per the protocols outlined in the mitigation measures to help prevent Whirling Disease, as approved by Parks Canada.



Protective matting made of Douglas Fir placed on an access point to the Project right-of-way.

Wildlife Sweeps and Wildlife Sightings

Mitigation measures, including general wildlife sweeps, have been developed to minimize potential negative effects on wildlife in Jasper National Park, and also to protect the safety of workers related to potential wildlife interactions. Indigenous Monitors participated in wildlife sweeps in areas where reactivation activities are occurring. Sweeps were conducted for Columbian Ground Squirrels where reactivation activities requiring surface disturbance like digs and sleeve removal overlap with occupied ground squirrel colonies in the park. Observance and monitoring of a beaver dam and wildlife trees were also conducted to mitigate potential disturbance of animals.

In addition to the sweeps, a Jasper National Park Wildlife Management Plan is followed to avoid or reduce the risk and severity of wildlife conflicts during



Columbian Ground Squirrel sweep area

construction. Part of this plan is reporting wildlife sightings in any Project areas so appropriate mitigation measures can be followed if necessary. The Indigenous Monitors have been reporting wildlife sightings, such as observance of elk near the right-of-way. Raptor wildlife sweeps are also included in this scope as the active period starts March 15 and the migratory nesting period for other species starts April 24 within Jasper National Park.

Topsoil and Shrub Salvage and Storage

Topsoil and root zone material are salvaged and stored from construction locations where ground disturbance occurs (i.e., excavation, grading, hydrovac). To avoid and reduce effects on topsoil and root zone material productivity, surface drainage patterns, land use and wildlife habitat; and to conserve surface material in order to facilitate reclamation. The Indigenous Monitors were monitoring and inspecting various reactivation dig sites, natural hazard remediation and sleeve removal areas to ensure appropriate topsoil and shrub salvage and storage activities occur that conform to the Environmental Protection Plan and Jasper Park-specific mitigation measures.



Pile of salvaged topsoil, stored and covered.

Bridge Installation

A bridge was installed over a watercourse crossing, specifically the Snaring River. There are several mitigation measures the Indigenous Monitors monitored and inspected during bridge installation. These key activities are related to erosion and sediment control and include undertaking all construction activities that avoid or minimize erosion and the discharge of sediment or other substances into any nearby watercourses, wetlands, lakes or connecting draining systems.



Bridge being installed over watercourse crossing

Instream Pipe Replacement

The Indigenous Monitors were monitoring and inspecting preparatory activities for the replacement of a segment of pipe that runs underneath a watercourse in Jasper National Park. There are various mitigations applied to the range of construction activities related to the isolation crossing methodology being used for this replacement. Activities that the Indigenous Monitors observed included, but were not limited to, biosecurity cleaning, topsoil/subsoil salvage, fish salvage, sediment and erosion control, preparation for dewatering, and water flow management.



Dewatering pipe being stored in preparation for pipe replacement work.

Indigenous Monitor Follow-up Dashboard

Indigenous Monitors are provided daily on-site field support from Environmental Inspectors and office support from Indigenous Monitor Coordinators. Indigenous Monitors can also make specific support requests or submit questions through their daily report. Examples include but are not limited to: request for Project reports, input from an environmental resource specialist or on-site support from an Elder or other cultural knowledge holder. Monthly requests and their completion status are noted below.

Status	Number and Type of Requests				
	Project Reports/Documents	Environmental Resource Specialists	Elder/Cultural Knowledge Holder	Other	Total
Total	0	0	0	0	0
<i>Fulfilled</i>	-	-	-	-	-
<i>Outstanding</i>	-	-	-	-	-

This report has been reviewed by the active Indigenous Monitor(s)

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