

INDIGENOUS MONITOR OVERVIEW REPORT

Month: September 2022

Project Region: Lower Mainland

Indigenous Monitor days on-site: 23

**Kilometre Posts (KPs) monitored:
Spread 7 KP 1165–1176**

Indigenous Monitors on the Trans Mountain Expansion Project – Overview

The Trans Mountain Expansion Project (the Project or TMEP) has retained Indigenous Monitors as integrated members of its construction Environmental Inspection team. Indigenous Monitors work with Environmental Inspectors to monitor compliance with mitigation measures to minimize impacts to traditional resource use and cultural/heritage impacts during construction. Indigenous Monitors have a strategic role in providing traditional knowledge directly and pragmatically to construction oversight practices and bring an Indigenous lens to daily environmental inspection activities.

This Overview Report provides highlights of the Indigenous Monitors' day-to-day work and key mitigation measures observed by the Monitors related to Project construction in the Lower Mainland. The purpose of this report is to provide an update on Indigenous Monitor activity to Indigenous groups.

During this reporting period, key Project activities in the Lower Mainland region involving Indigenous Monitors include construction at Westridge Marine Terminal (WMT), Burnaby Terminal and on Spread 7B. Activities included erosion and sediment control measures, construction housekeeping, watercourse crossings and monitoring at the Colony Farm Regional Park Temporary Workspace.

The Project Construction Progress Report (Condition 106) for October 2022, which reports environmental events and deficiencies in Tables 4 and 5 respectively, is found [here](#).

The Project has a process for sharing information related to potential Traditional Land Use (TLU) and Heritage Resource chance finds during construction. [Protecting TLU and Cultural Heritage Resources Fact Sheet \(link here\)](#) provides an overview of the chance find communication process. Applicable Indigenous groups are notified and engaged directly on potential chance finds.

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

Topsoil Removal and Grubbing

When salvaging topsoil in construction areas, required mitigation includes segregation of topsoil from root zone material, proper storage to reduce potential erosion, effective labelling and signage, and inspection of soil piles to ensure they are within the survey limits of the right-of-way and no soil has gone outside these limits.

The Indigenous Monitor observed stumping and grubbing near KP 1179, alongside an Environmental Inspector and Archaeological Resource Specialist. The activity was monitored closely to identify any potential archaeological chance finds that could be unearthed. No potential archaeological materials were discovered.



Stumping and grubbing observed near KP 1179. No archaeological chance finds were discovered during inspection.

Erosion and Sediment Control

Erosion and sediment control (ESC) measures are used to reduce erosion and limit sediment transport across construction sites to sensitive environmental features.

At Burnaby Terminal and WMT, the Indigenous Monitors conducted inspections to verify ESC measures throughout the terminals were installed effectively as prescribed in the Environmental Protection Plan. This included inspecting berms and exposed slopes were securely covered with polyethene sheeting or hydroseed was correctly applied. Ditches and other water conveyance measures throughout the terminal and along the perimeter of the Project footprint were also inspected to ensure they were free of construction materials and debris.

In September, the Indigenous Monitor observed the removal of sediment from the Burnaby Terminal Intermediate Storm Water Retention Area (ISWRA). then cleaning of the ISWRA and repairs to the liner. The sediment was collected and disposed of at the terminal's portal waste area. Compliance measures were in place and no concerns were noted during inspection of this activity.



Intermediate Storm Water Retention Area (ISWRA) has been drained and sediment has been removed.



Cleaning of the ISWRA and patching of any tears in the liner occurred.

Site Housekeeping

The Indigenous Monitors in the Lower Mainland regularly conduct inspections of construction areas for general housekeeping measures. This includes observing and documenting waste management practices and hazardous materials containment, as well as inspecting that spill kits are effectively placed and stocked with absorbent materials.

The Indigenous Monitor conducted housekeeping inspections at Burnaby Terminal and WMT. Indigenous Monitors also check that secondary containment is placed underneath machinery and stored petrochemicals such as paint and gasoline. At WMT, the Indigenous Monitor inspected the marine loading platforms for site housekeeping measures. No deficiencies or non-compliances were observed.



Secondary containment inspected at one of the WMT marine loading platforms.

Watercourse Crossings

Mitigation measures required for in-stream construction include but are not limited to biosecurity cleaning of equipment, secondary containment of hydrocarbons, stream bed material, fish and amphibian salvage, water quality monitoring and erosion and sediment control.

In isolated watercourse crossings, stream flow is redirected around the natural watercourse for a short duration while pipe installation occurs. Once the trench is constructed and the pipe is installed, the trench is backfilled and the channel bed and banks are restored to their pre-existing condition. Watercourse diversion is typically limited to a few hours to a single day for smaller watercourses. During this type of construction, if the watercourse is fish-bearing, fisheries biologists salvage fish from the isolated area and release them downstream. Water quality is also monitored by Resource Specialists during construction in all fish-bearing watercourses.

At Holmes Creek (watercourse BC-783b) near KP 1175, the Indigenous Monitor observed the watercourse restoration measures. The Indigenous Monitor observed natural bed material being replaced in the channel prior to restoring flow, and placement of vegetation and coarse woody debris along the bank of Holmes Creek to assist with erosion control and regrowth of vegetation. Environmental feature signage was also inspected in the vicinity. No concerns were reported.



Holmes Creek bed restored near KP 1175 and water running clear after release of the watercourse diversion.

Colony Farm Regional Park Temporary Workspace

Construction activity is underway at the Colony Farm Regional Park Temporary Workspace near KP 1167. This work area is being used as a staging area for drilling equipment and pullback section for the Fraser River horizontal directional drill (HDD).

To execute the Fraser River HDD, Trans Mountain's contractor requires a temporary workspace for staging pipe, to weld and coat the drag section for the new pipe that will be pulled under the Fraser River.

The Indigenous Monitor observed and inspected various environmental mitigations at the temporary workspace, including erosion and sediment control measures, site housekeeping, and secondary containment for equipment and machinery. During inspections the Indigenous Monitor observed additional spill containment measures installed around the HDD borehole pit area to be working effectively and mitigating potential sediment transfer into a nearby fish-bearing watercourse. They also monitored excavation at the HDD pit area and monitored alongside the Archaeological Resource Specialist for potential archaeological chance finds that might be unearthed. No archaeological material was discovered.



Excavation of the HDD borehole pit at Colony Farm.

Indigenous Monitor Request 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, requests for Project reports, input from an environmental resource specialist or on-site support from an Elder or other cultural knowledge holder. Requests and their completion status are noted below.

Status	Rolling Total and Type of Requests				
	Project Reports/ Documents	Environmental Resource Specialists	Elder/Cultural Knowledge Holder	Other	Total
Total	4	0	0	0	4
Fulfilled	4	-	-	-	4
Outstanding		-	-	-	

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

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