

INDIGENOUS MONITOR OVERVIEW REPORT

Month: January 2022

**Project Region: Edmonton and
Yellowhead**

Indigenous Monitor days on-site: 24

**Kilometre Posts (KPs) monitored:
KP 1–377**

Indigenous Monitors on the Trans Mountain Expansion Project – Overview

The Trans Mountain Expansion Project (the Project or TMEP) is retaining 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 sites 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 Edmonton and Yellowhead Regions. 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 Edmonton and Yellowhead Regions involving Indigenous Monitors took place at the Edmonton Terminal in Spread 1 and KP49-377 in Spread 2 and included monitoring soil salvage, Edmonton terminal inspections, pump station inspections, Traditional Land Use (TLU) sites and watercourse crossings. Pipeline construction on Spread 1 is mechanically complete. Some final Project activities on the Spread 1 ROW are anticipated to resume in mid-spring. The Project Construction Progress Report (Condition 106) for January 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 TLU and Heritage Resource chance finds during construction. The [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.

Trans Mountain COVID-19 – Our Response

Trans Mountain is actively monitoring the COVID-19 situation with the help of federal, provincial and local agencies. Trans Mountain's top priority remains the health and safety of its workforce, their families and our communities.

For more information: transmountain.com/covid19

Soil Salvage

During construction activities, Indigenous Monitors were on-site performing monitoring and inspection duties related to soils including ensuring equipment arrives clean on-site, soil piles are placed within the survey limits of the right-of-way, soil piles are properly labelled and that topsoil and transition piles have adequate buffers.

At KP337, Indigenous Monitors were involved in inspecting the salvage and placement of topsoil and subsoil and were available if any potential heritage resources or items of TLU interest were unearthed during soil stripping. During the inspection, the Indigenous monitors confirmed the soil piles were within the survey limits and stockpiles were labelled appropriately. No concerns were identified during the time of inspection.



Topsoil and seconds with appropriate wildlife break KP 377.



Proper soil segregation near KP 377.

Edmonton Terminal Inspection

A joint inspection was conducted by the Environmental Inspector and Indigenous Monitor at the Edmonton Terminal. Waste management was inspected as well as secondary containment for equipment and fuel storage. Spill kits and spill response procedures were reviewed with no concerns identified.

Indigenous Monitors inspected the Edmonton Terminal and observed construction activities around the new storage tank, the excavation for the sump tank, new pipe rack, containment walls and the tie-in manifold. Deficiencies observed are reported to the Environmental Inspector who submits the corrective actions to the General Construction Contractor. There were no deficiencies at the time of inspection.



Piles for containment walls on west end of Edmonton Terminal.



Tie-in to manifold East Edmonton Terminal.

Pump Station Inspection

A joint environmental inspection was conducted by an Environmental Inspector and an Indigenous Monitor at the Gainford Pump Station. The Facilities Environmental Protection Plan was reviewed and referenced during the inspection to ensure compliance measures were being followed. The inspection included observing the sites' waste management procedures, use of secondary containment and the completion of final grade for the Gainford Pump Station buildings. Two drainage culverts were being installed as well as a drainage ditch. There were no environmental concerns at the time of inspection. Indigenous monitors will return in February to inspect the erosion and sediment control measures installed in and around the culverts and ditch.

Pump station construction is nearly complete on Spread 2 and no construction activity is anticipated there until spring 2022 when reclamation activities resume. Gainford is the only pump station with ongoing construction activity. Indigenous Monitors will continue to monitor sites where active construction is taking place.



Gainford Pump Station west view KP 116.



Gainford Pump Station east view KP 116.



Culverts to be installed at Gainford Pump Station KP 116.

TLU Sites

During construction, cultural use areas are noted along the right-of-way. Such locations have been identified during TLU studies conducted by Indigenous groups prior to construction. As part of the Environmental Protection Plan, a TLU Sites Discovery Contingency Plan outlines steps to take if previously unidentified TLU sites are identified during construction.

Indigenous Monitors inspected previously identified TLU sites along the right-of-way on Spread 2, including but not limited to TLU-6, TLU-7, TLU-8, TLU-9, TLU-12, TLU-13, TLU-14, TLU-17 and TLU-19. Mitigation measures in place included signage, flagging and proper buffer zones. Indigenous Monitors report deficiencies in these mitigations to an Environmental Inspector.

Indigenous Monitors assist in identifying corrective actions and work with the Environmental Inspectors to confirm completion. An Indigenous Monitor inspected the pictured TLU sites to confirm the root zone soil material remained labelled and stockpiled separately. Grading is complete at TLU-7, TLU-8 and TLU-9, and pipe is ready for install. Indigenous Monitors will return to inspect installation and completed backfill. No outstanding deficiencies were found at the above-mentioned sites.



Signage and mitigations in place at TLU-9 KP 132.



Proper signage in place at TLU-8 KP 131.



Signage and mitigations in place at TLU-7 KP 131.

Watercourse Crossings In-Stream Work

Environmental mitigation measures for in-stream construction of watercourses are prescribed in the provincial permit and the watercourse crossing plan, and in some cases a Fisheries and Oceans Canada (DFO) authorization. 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 salvage water quality monitoring and sediment/erosion control.

Several ongoing watercourse crossings are under construction on Spread 2 at various stages of completion. Indigenous Monitors observed the contractor install diversion pumps and hoses used to divert water for in-stream work. The upstream water is diverted downstream of the crossing area to maintain natural flow conditions and water quality. Hoses were placed with diffusers to reduce the potential of scouring the bed and bank.

The pipe was installed in Maskuta Creek in January; the watercourse was promptly restored to return the site to pre-existing conditions. Indigenous Monitors inspected erosion and sediment control measures installed at the watercourse crossings, asked Environmental Inspectors about manufacturers specs for installation and included the details in their inspection reports. Indigenous Monitors also interact with Resource Specialists on-site daily and inquire about acceptable turbidity levels post-restoration; the levels were acceptable. No environmental concerns were noted during these watercourse crossing inspections in January.

Indigenous Monitors continue to inspect all water crossings to ensure environmental mitigation measures are being followed.



Hard wrap used for stream bank restoration at Happy Creek AB-185 KP 321+720



Prep for crossing at Maskuta Creek AB-188 KP 326.



Pumps ready for crossing at Maskuta Creek AB-188 KP 326.



Temporary Bridge installed at Maskuta Creek AB-188 KP 326.




Indigenous Monitor Request Dashboard

Indigenous Monitors are provided with 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	6	1	5	-	12
Fulfilled	6	1	5	-	12
Outstanding	-	-	-	-	-

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

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