

# Trans Mountain Expansion Project Socio-Economic Monitoring Report - North Thompson Region

January to March 2022 (Rev 3 - Updated August 2023)



## Introduction

This report presents the quarterly socio-economic monitoring results for the North Thompson Region related to construction of the Trans Mountain Expansion Project (TMEP or the Project). The monitoring approach and indicators are discussed in detail in the TMEP Socio-Economic Effects Monitoring Plan (SEEMP) approved by the Canadian Energy Regulator (CER) pursuant to CER Condition 13 (see link below). This report presents the Project-specific indicators; these are data that are directly attributable to the Project, reflect the Project's contribution to socio-economic outcomes, and help pinpoint Project actions that may require change. Please refer to Annex 1 - Socio-Economic Context, North Thompson for the regional context indicators that reflect the broader socio-economic conditions in which Project construction is occurring.

**Trans Mountain's first priority has and will always be the health and safety of our workforce, their families and our communities. In response to the evolving COVID-19 pandemic, Trans Mountain and our construction contractors for the Trans Mountain Expansion Project have been working diligently together to ensure adherence to all advice and direction from government and health officials both provincially and federally.**

[Socio-Economic Effects Monitoring Plan \(CER Condition 13\)](#)

*(the above links to the CER website where the SEEMP is filed)*

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## Project-Specific Indicators

### Quantitative Indicators

SEEMP Indicator No.	Indicator	Monthly Total			Quarterly Count	% (where applicable)	Threshold Triggered? (Y/N)	If Threshold Triggered, Action Taken
		Jan-22	Feb-22	Mar-22				
N/A	Total calendar days of construction site work during the reporting cycle	30	24	24	78	N/A	N/A	
	Workers on site per day (average)	2571	2874	3369	2910	N/A		
1	<b>Number of worker-days in field (categorized in two ways: by geographic origin, and also by Indigenous v. non-Indigenous status)</b> <i>Threshold for Action: Number of non-local/regional workers by region/spread is +/- 20% different than estimated in Worker Accommodation Strategy CER Condition 59</i>							
	<b>Total Worker-days</b>	<b>77129</b>	<b>68972</b>	<b>80848</b>	<b>226949</b>	100%	Y Data not available; construction workforce continues beyond Worker Accommodation Strategy predicted timeframe	Indicator 5 (below) provides updated anticipated work force number (in worker days) in this region for the next business quarter. These numbers are made available through notification of the online posting of this Report to municipal or regional government authorities, health authorities, social services, police, hotel / tourism associations and chambers of commerce.
	a) Worker-days, Local or Regional residents	28019	26212	30702	84933	37%		
	b) Worker-days, Other (workers not Local or Regional residents)	49110	42760	50146	142016	63%		
	c) Indigenous	9823	8773	9810	28406	13%		
	d) Non-Indigenous	67306	60199	71038	198543	87%		
2	<b>Number of worker-days in field (categorized by accommodation arrangements of the workers)</b> <i>Threshold for Action: Less than 75% of non-local/regional workers are staying in camps and qualitative feedback received about adverse issue or concern from local authority or tourism /hotel association representative.</i>							
	<b>Total Worker-days</b>	<b>77129</b>	<b>68972</b>	<b>80848</b>	<b>226949</b>	100%	Y	Trans Mountain continues to engage with the Village of Valemount and local organizations to cooperatively identify and implement any available solutions on issues related to presence of temporary workforce residing in the community. Trans Mountain's Blue River Camp Community opened in February 2022. This, in combination with the Valemount camp, provides 1150 beds for the Trans Mountain workforce in the North Thompson region and reduces housing needs in the Valemount area. The workforce in the Valemount area is anticipated to be declining in the coming months as the focus of construction moves south.
	a) Worker-days, Local or Regional resident, residing at home	7006	7238	8536	22780	10%		
	b) Worker-days, not Local or Regional, not staying in TMEP camps (i.e., staying in local rental, hotel)	43275	37709	43863	124847	55%		
	c) Worker days, not Local or Regional resident, staying in TMEP camps	26848	24025	28449	79322	35%		
3	<b>Living out allowance or related stipend</b> <i>Threshold for Action: An increase in the number of worker-days paid (indicator 3a) from the previous reporting cycle and any qualitative feedback received about adverse issues from local authorities or tourism /hotel associations.</i>							
	a) Number of worker-days paid	69788	40010	46324	156122	N/A	Y	See responses in Indicator 2 and Indicator 12
	b) Total value (\$)	\$ 7,074,000	\$ 7,059,408	\$ 8,674,418	\$ 22,807,826	N/A		

SEEMP Indicator No.	Indicator	Monthly Total			Quarterly Count	% (where applicable)	Threshold Triggered? (Y/N)	If Threshold Triggered, Action Taken
		Oct-21	Nov-21	Dec-21				
5	<b>Number of worker-days, in field - anticipated in next business quarter</b> <i>Threshold for Action: N/A - this is a forward indicator to assist stakeholders and Indigenous groups in community readiness.</i>							
	a) April 2022	N/A			46100	N/A	N/A	N/A
	b) May 2022				45436			
	c) June 2022				56251			
6	<b>Number of motor vehicle collisions or reportable incidents that involve Project vehicles on public roads during work hours or Contractor-owned vehicles during off-work hours</b> <i>Threshold for Action: No minimum threshold. All incidents/accidents will be investigated.</i>							
	<b>Total</b>	5	5	2	12	N/A	N/A	N/A
	a) Number involving injuries	0	3	0	3	N/A		
	b) Number involving fatalities	0	0	0	0	N/A		
7	<b>Workers transported from staging areas per day (average)</b> <i>Threshold for Action: Number, when calculated as a % of total workers on site (average during the month of the count) is less than 75%.</i>							
	Mid-month count	2100	1952	1611	1888	N/A	Y (See Note 1)	Pipeline construction contractors confirmed that there are options for workers to take shuttles from the yard to work areas, and there are also company crew vehicles/trucks that transport workers out to sites. Some workers are carpooling directly from accommodations in the Valemount community, which reduces the number of vehicles in staging areas.
	End-month count	2172	1393	1449	1671	N/A		
	<b>Average</b>	<b>2136</b>	<b>1673</b>	<b>1530</b>	<b>1780</b>	N/A		
8	<b>Personal vehicles in staging area per day (average)</b> <i>Threshold for Action: Number is 10% or more of AADT values at locations nearest to staging yards and qualitative feedback received about adverse traffic volume issues via indicators #11 and #12.</i>							
	Mid-month count	597	1622	1339	1186	N/A	N	N/A
	End-month count	604	1166	1214	995	N/A		
	<b>Average</b>	<b>601</b>	<b>1394</b>	<b>1277</b>	<b>1090</b>	N/A		
9	<b>Number of times a "captive" Project worker was referred to a local health facility or required emergency medical transport ("Captive" workers = workers on a Project premises, i.e., in camp or on work-site)</b> <i>Threshold for Action: Qualitative feedback from local health authority regarding capacity concerns.</i>							
	<b>a) Total number of times a worker was referred or sent to local health facilities</b>	<b>7</b>	<b>14</b>	<b>17</b>	<b>38</b>	N/A	N	N/A
	i. urgent	4	7	13	24	N/A		
	ii. non-urgent	3	7	4	14	N/A		
	iii. occupational	2	7	4	13	N/A		
	iv. non-occupational	5	7	13	25	N/A		
	<b>b) Total number of times a worker required ambulance or other emergency transport</b>	<b>1</b>	<b>1</b>	<b>4</b>	<b>6</b>	N/A		
10	<b>Number of medical visits to Project on-site medical facilities</b> <i>Threshold for Action: Number, when calculated as a percentage of average number of workers per month rises from the previous reporting cycle.</i>							
	<b>Total</b>	<b>6856</b>	<b>2934</b>	<b>764</b>	<b>10554</b>	N/A	Y	Threshold is triggered due to an increased numbers of COVID-19 related interactions, such as follow-ups for individuals in isolation and individuals ready to return to regular duties. Camp Contractor is continuing to evaluate on-site medical services to ensure they are adequate to support Project needs, including adding additional clinic personnel. Camp Contractor added a roving nurse, which continued into Q1 2022, to move between Camp Occupational Health Clinics as needed to augment service capacity.
	a) occupational	48	46	99	193	N/A		
	b) non-occupational	6808	2888	665	10361	N/A		

SEEMP Indicator No.	Indicator	Monthly Total			Quarterly Count	% (where applicable)	Threshold Triggered? (Y/N)	If Threshold Triggered, Action Taken
		Jan-22	Feb-22	Mar-22				
14	Number of people affected by a notifiable disease in a work camp <i>Threshold for Action: No minimum threshold; all notifiable diseases will be reported to the local health authority</i>							
	<b>Total</b>	<b>334</b>	<b>211</b>	<b>6</b>	<b>551</b>	N/A	N/A	N/A

#### Qualitative Indicators

SEEMP Indicator No.	Indicator	Threshold Triggered? Y/N	If Threshold Triggered, Action Taken																
4	Qualitative feedback about Project use of local/regional commercial accommodation (e.g., hotels, motels, campgrounds) <i>Threshold for Action: Qualitative feedback received about adverse issues from local authorities, tourism/hotel associations or hotels used by Contractor.</i>																		
	Housing supply - Regional District of Fraser Fort George	Y	See response below																
	Winter tourism revenue - Valemount & Area Recreation Development Association (VARDA)	Y	See response below																
11	Number and types of calls/complaints received through TMEP feedback line (about construction-related social impacts) <i>Threshold for Action: There is no threshold for action as all grievances will be responded to.</i>																		
	<table border="1"> <thead> <tr> <th>Month</th> <th>Number, originating from the region</th> <th>Common Socio-Economic Impact Themes During the Quarter</th> <th>Threshold Triggered? Y/N</th> <th>If Threshold Triggered, Action Taken</th> </tr> </thead> <tbody> <tr> <td>Jan-22</td> <td>Total: 4 % Indigenous: 0 % Non-Indigenous: 100</td> <td>           Groundwater/well concerns near Clearwater             Traffic - workers driving near Valemount not obeying traffic laws.         </td> <td rowspan="3">N/A</td> <td rowspan="3">N/A</td> </tr> <tr> <td>Feb-22</td> <td>Total: 1 % Indigenous: 0 % Non-Indigenous: 100</td> <td>           Traffic - damage to windshield from debris on road near Clearwater             Sensory - Project-related noise from pile driving at Swift Creek, work at Clearwater River, noise, dust and emissions near laydown yard in Blue River and noise from hydrovac near Avola.         </td> </tr> <tr> <td>Mar-22</td> <td>Total: 5 % Indigenous: 0 % Non-Indigenous: 100</td> <td>           Access - Property owner near Clearwater complained about Project worker trespassing on private property.         </td> </tr> </tbody> </table>	Month	Number, originating from the region	Common Socio-Economic Impact Themes During the Quarter	Threshold Triggered? Y/N	If Threshold Triggered, Action Taken	Jan-22	Total: 4 % Indigenous: 0 % Non-Indigenous: 100	Groundwater/well concerns near Clearwater  Traffic - workers driving near Valemount not obeying traffic laws.	N/A	N/A	Feb-22	Total: 1 % Indigenous: 0 % Non-Indigenous: 100	Traffic - damage to windshield from debris on road near Clearwater  Sensory - Project-related noise from pile driving at Swift Creek, work at Clearwater River, noise, dust and emissions near laydown yard in Blue River and noise from hydrovac near Avola.	Mar-22	Total: 5 % Indigenous: 0 % Non-Indigenous: 100	Access - Property owner near Clearwater complained about Project worker trespassing on private property.		
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	Month	Number, originating from the region	Common Socio-Economic Impact Themes During the Quarter		Threshold Triggered? Y/N	If Threshold Triggered, Action Taken
			Local Services & Infrastructure / Environmental Concern - resident complaint regarding waste disposal at Clearwater Eco-Depot.	Trans Mountain is committed to performing its activities in an environmentally responsible manner, including recycling waste materials to the extent possible. Wood is identified as a solid waste to be disposed of at the Clearwater Eco-Depot per the approved waste management plans. Geotextile is disposed, as geotextile with any breach in fabric is not considered viable.	N/A	N/A
12	<b>Qualitative feedback themes about community concerns and experienced social effects</b> <i>Threshold for Action: Adverse socio-economic issue or concern from an appropriate government authority or service provider or community organization.</i>					
	Theme	Impact Overview	Trans Mountain Response		Threshold Triggered? Y/N	If Threshold Triggered, Action Taken
	Local Infrastructure and Services <i>(feedback from Northern Health Authority)</i>	Workforce use of local health services in Valemount area. Increased workload of Valemount clinic staff.	Trans Mountain is regularly engaging with Northern Health Authority regarding community nursing needs and information on use of local health services in Valemount. In fall 2021 and into Q1 2022, Camp Contractor added a roving nurse to move between Camp Occupational Health Clinics as needed to augment service capacity. Trans Mountain continues to report all required workforce information to Northern Health related to COVID 19 orders. In 2022, Trans Mountain is working with Northern Health to support augmented community-based nursing staff in the Valemount health clinic (in addition to Project-specific camp clinic) and has been meeting frequently with Northern Health administration and the Valemount Health Clinic regarding staffing implementation details. Trans Mountain is also promoting the Project-provided medical services to the Project workforce. Health resource capacity information provided by Northern Health has been summarized in the Annex 1: Socio-Economic Context Indicators - North Thompson Region report.		Y	<p>Trans Mountain will share information regarding the use of the Valemount Camp Occupational Health Clinic with workers staying in the Valemount region. This will include communication materials outlining the health and medical services and hours of the Valemount Occupational Health Clinic at the Valemount Camp.</p> <p>Trans Mountain will direct its medical support company to share information and resources related to sexual health with the Project workers in the Valemount camp clinic.</p> <p>Trans Mountain will share information reminding workers staying in the Valemount region of the importance of respectful conduct in the community and with all service providers.</p> <p>Trans Mountain will explore with Northern Health options for its camp medical support company to hire up to two new nursing positions who will work in Valemount, with the intention to be integrated into Valemount Health Centre.</p>
	Local Infrastructure and Services <i>(raised by Regional District of Fraser Fort George)</i>	Increase of workforce in the Valemount area has exceeded the supply for such things as permanent and temporary housing and goods and services.	Trans Mountains continues to engage with the Village of Valemount to cooperatively identify and implement any available solutions on issues related to presence of temporary workforce residing in the community. Trans Mountain's Blue River Camp Community opened in February 2022. This, in combination with the Valemount camp, provides 1150 beds for the Trans Mountain workforce in the North Thompson region and reduces housing needs in the Valemount area. The workforce in the Valemount area is anticipated to be declining in the coming months as the focus of construction moves south.		Y	As noted in Q1 2021, Trans Mountain and its contractor have worked with the Village of Valemount and Regional District on adaptive management strategies, including distributing the community newsletter to the workforce to share information on waste rules and snow removal rules related to overnight parking in town; exploring support for additional waste management measures; and facilitating information flow between Village administration and the local grocery supplier regarding storage needs. The Blue River camp opened in February 2022 reducing housing needs in the Valemount area.
	Worker Conduct <i>(raised by Simpcw First Nation and the Mayor of Clearwater)</i>	Community safety concerns related to not following Covid isolation protocol in Clearwater hotel.	Trans Mountain's Covid 19 Response Plan requires that Contractors must adhere to and enforce relevant Public Health Orders and the requirements for isolation if symptomatic/presumed positive set by the relevant Health Authority and Trans Mountain.		Y	Trans Mountain followed up with the Contractor, requiring an investigation of events and determining appropriate disciplinary action for the worker. A preventative action report was issued to the Contractor, including corrective actions related to enhancing Covid 19 rapid response form administration and communication enhancements regarding Covid requirements.
	Local Infrastructure and Services <i>(one complaint from a community organization, Valemount &amp; Area Recreation Development Association (VARDA))</i>	Impact of construction on accommodation and trail access for winter tourism in Valemount area; decline in tourism revenues.	Trans Mountain followed up with VARDA to meet and better understand the impacts in rider numbers. Trans Mountain is continuing to engage with VARDA to determine any appropriate corrective actions and if mitigations are required for the 2022/23 riding season.		Y	Trans Mountain is continuing to engage with VARDA to determine any appropriate corrective actions and if mitigations are required for the 2022/23 riding season.

	Theme	Impact Overview	Trans Mountain Response	Threshold Triggered? Y/N	If Threshold Triggered, Action Taken
	Worker Conduct <i>(raised by Simpcw First Nation)</i>	Community safety concern related to worker altercation with Clearwater liquor establishment employee.	Trans Mountain has a security-related incident notice protocol established with the Nation leadership, and meets regularly with the National leadership on security matters. The Worker Code of Conduct specifies that all workers are ambassadors of the Project, and it is important that the people living in the vicinity of the Project are treated with respect and consideration during the Project construction time frame. Complaints regarding off-duty worker conduct in community are investigated internally to determine appropriate disciplinary action.	Y	The employing contractor conducted an internal investigation to determine appropriate disciplinary action.
13	<b>Qualitative feedback themes about effects on the quality and abundance of traditional harvesting resources, or ability of Indigenous people to harvest resources, within the Project footprint</b> <i>Threshold for Action: Qualitative from Indigenous group leader/administrator regarding reports of adverse effects on quality and abundance of traditional harvesting resources, or ability of Indigenous people to harvest their resources or access cultural sites, within the Project footprint.</i>				
	None			N/A	N/A

### Methodology and Notes

- Information in this report was collected through internal sources including labour and incident data from Contractors, TMEP feedback line data, and the review of stakeholder and Indigenous engagement records. Data reflects activity related to TMEP construction only.

- A worker-day is defined as 10 hours of work, by a construction Contractor on-site or in an on-site office.

- The monthly data cut-off is typically the last Saturday of each month; this reporting cycle was December 26, 2021 -March 26, 2022.

- Thresholds are internally assessed on a monthly basis and are considered triggered if a threshold is exceeded for any given month within each quarterly reporting cycle.

- The threshold analysis of Indicator 1 utilizes the estimate of non-local/regional workers estimated in the Worker Accommodation Strategy (WAS) CER Condition 59, based on the corresponding month of construction in an ordered manner. For example, Month 1 predicted in the WAS is compared to Month 1 actual.

- Indicator 1 tallies feedback line calls/queries related to actual socio-economic impact topics related to TMEP construction activity. Socio-economic topics include: access limitations; road closures; business impacts; pressure on housing/accommodation; burden on infrastructure/services; sensory disturbance; traffic and driving; worker conduct; traditional use and cultural sites.

- Employment and business opportunity and training indicators are monitored and reported through separate processes, as per distinct CER Conditions (CER Condition 107 - Aboriginal, Local and Regional Employment and Business Opportunity Monitoring Reports; and CER Condition 58 - Training and Education Monitoring Reports).

- Individual numbers may be rounded to allow for totals to add up.

- For the threshold analysis for Indicator 1, the estimate of non-local/regional workers estimated in the WAS finished in September 2021. While calculations comparing indicator 1 to the estimated workforce in the original WAS are no longer possible due to the longer construction timeline, Trans Mountain continues to respond like the threshold for action has been triggered and share forward workforce estimates.

- Indicator 5 includes active Construction Contractors only, as estimated at the end of the reporting quarter.

- Data may be subject to revisions based on updates from Contractors or ongoing quality reviews.

#### Notes:

1. For the threshold analysis for Indicator 7, the average workers transported from staging areas per day (1780) is approximately 61% of the average workers on site per day (2910).