

Trans Mountain Expansion Project Socio-Economic Monitoring Report - Lower Mainland Region

October to December 2021



Introduction

This report presents the quarterly socio-economic monitoring results for the Lower Mainland 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, Lower Mainland 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 \(CER Condition 13\)](#) (link to the CER website where the SEEMP is filed)

For more information contact: info@transmountain.com or 1-866-514-6700

Project-Specific Indicators

Quantitative Indicators

SEEMP Indicator No.	Indicator	Monthly Total			Quarterly Count	% (where applicable)	Threshold Triggered? (Y/N)	If Threshold Triggered, Action Taken
		Oct-22	Nov-22	Dec-22				
N/A	Total calendar days of construction site work during the reporting cycle (includes days of select site activity during the safety shut down)	30	24	24	78	N/A	N/A	
	Workers on site per day (average)	1539	1342	1189	1371	N/A		
1	Number of worker-days in field (categorized in two ways: by geographic origin, and also by Indigenous v. non-Indigenous status) Threshold for Action: Number of non-local/regional workers by region/spread is +/- 20% different than estimated in Worker Accommodation Strategy CER Condition 59							
	Total Worker-days	46173	32210	28542	106925	100%	N/A	N/A
	a) Worker-days, Local or Regional residents	28900	16268	13871	59039	55%		
	b) Worker-days, Other (workers not Local or Regional residents)	17273	15942	14671	47886	45%		
	c) Indigenous	1709	1478	1402	4589	4%		
	d) Non-Indigenous	44464	30732	27140	102336	96%		
2	Number of worker-days in field (categorized by accommodation arrangements of the workers) 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.							
	Total Worker-days	46173	32210	28542	106925	100%	N	N/A
	a) Worker-days, Local or Regional resident, residing at home	27374	14896	12764	55034	51%		
	b) Worker-days, not Local or Regional, not staying in TMEP camps (i.e., staying in local rental, hotel)	18799	17314	15778	51891	49%		
	c) Worker days, not Local or Regional resident, staying in TMEP camps	0	0	0	0	0%		
3	Living out allowance or related stipend 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.							
	a) Number of worker-days paid	17378	17337	14654	49369	N/A	N	N/A
	b) Total value (\$)	\$ 6,141,760	\$ 3,577,273	\$ 2,832,630	\$ 12,551,663	N/A		
5	Number of worker-days, in field - anticipated in next business quarter Threshold for Action: N/A - this is a forward indicator to assist stakeholders and Indigenous groups in community readiness.							
	a) January 2022	N/A			28771	N/A	N/A	N/A
	b) February 2022				31207	N/A		
	c) March 2022				38579	N/A		

SEEMP Indicator No.	Indicator	Monthly Total			Quarterly Count	%(where applicable)	Threshold Triggered? (Y/N)	If Threshold Triggered, Action Taken
		Oct-22	Nov-22	Dec-22				
6	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 <i>Threshold for Action:</i> No minimum threshold. All incidents/accidents will be investigated.							
	Total	4	0	1	5	N/A	N/A	N/A
	a) Number involving injuries	0	0	0	0	N/A		
	b) Number involving fatalities	0	0	0	0	N/A		
7	Workers transported from staging areas per day (average) <i>Threshold for Action:</i> Number, when calculated as a % of total workers on site (average during the month of the count) is less than 75%.							
	Mid-month count	656	750	813	740	N/A	Y (see Note 1)	Pipeline Contractor has initiated worker transport strategies, using shuttles to transport workforce from staging areas. There are multiple staging areas to ensure that the majority of the workforce is transported to worksites daily, while some positions require a vehicle to complete their work between multiple sites.
	End-month count	688	786	4	493	N/A		
	Average	672	768	409	616	N/A		
8	Personal vehicles in staging area per day (average) <i>Threshold for Action:</i> 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.							
	Mid-month count	466	506	620	531	N/A	N	N/A
	End-month count	463	524	4	330	N/A		
	Average	465	515	312	431	N/A		
9	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) <i>Threshold for Action:</i> Qualitative feedback from local health authority regarding capacity concerns.							
	a) Total number of times a worker was referred or sent to local health facilities	7	12	8	27	100%	N	N/A
	i. urgent	1	3	1	5	19%		
	ii. non-urgent	6	9	7	22	81%		
	iii. occupational	5	7	8	20	74%		
	iv. non-occupational	2	5	0	7	26%		
	b) Total number of times a worker required ambulance or other emergency transport	1	1	0	2	N/A		
10	Number of medical visits to Project on-site medical facilities <i>Threshold for Action:</i> Number, when calculated as a percentage of average number of workers per month rises from the previous reporting cycle.							
	Total	132	124	85	341	100%	N	N/A
	a) occupational	60	59	48	167	49%		
	b) non-occupational	72	65	37	174	51%		
14	Number of people affected by a notifiable disease in a work camp <i>Threshold for Action:</i> No minimum threshold; all notifiable diseases will be reported to the local health authority							
	Total	0	0	0	0	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>				
	None			N	N/A
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>				
	Month	Number, originating from the region	Common Socio-Economic Impact Themes During the Quarter	N/A	N/A
	Oct-21	Total: 5 % Indigenous: 0 % Non-Indigenous: 100	Worker conduct - complaint regarding in appropriate language by Project-related worker (flagger) to road user.		
	Nov-21	Total: 12 % Indigenous: 0 % Non-Indigenous: 100	Sensory disturbance - Residents complained about pounding noise in Forest Grove, truck noise near the Burnaby tunnel and security sensor noise in Burnaby		
	Dec-21	Total: 8 % Indigenous: 0 % Non-Indigenous: 100	Sensory disturbance - Noise from Project related vehicles making work difficult for businesses		
			Sensory disturbance - Noise related to construction traffic on Cliff Ave		
			Sensory disturbance - Noise related to workers playing loud music near Commissioner Street		
			Traffic - Mud on truck tires leaving Burnaby Terminal.		
			Traffic - non-adherence to stop sign at Underhill and Forest Grove. Lack of lines on the road near intersection of United Blvd and King Edwards.		
			Traffic - Back up of traffic in front of Burnaby Terminal		
			Traffic - Chip in windshield from rock and debris near Greystone and Burnaby Terminal, and businesses complained about bump in road that is causing cars to bottom out		
			Traffic - Project related vehicles blocking access to businesses; parking in business parking lots.		

		Traffic - driving safety of Project-related bus near Burnaby Terminal		
		Traffic - construction debris resulted in flat tires on United Boulevard		
		Business Impacts - safety fence blocking visibility of United Boulevard business and creating safety concern.		
12	Qualitative feedback themes about community concerns and experienced social effects Threshold for Action: Adverse socio-economic issue or concern from an appropriate government authority or service provider or community organization.			
	None		N	N/A
13	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 Threshold for Action: Qualitative feedback 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.			
	None			

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 Aboriginal 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 September 26-December 25, 2021.
- 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 11 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 May 2020. Therefore, as of June 2020 the threshold analysis for Indicator 1 is N/A.
- Indicator 5 includes active Construction contractors only.
- 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 (616) is approximately 45% of the average workers on site per day (1371).