

**Trans Mountain Expansion Project**  
**Socio-Economic Monitoring Report - Lower Mainland Region**  
**July to September 2022**



**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.

[Socio-Economic Effects Monitoring Plan \(CER Condition 13\)](#) (link 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
		Jul-22	Aug-22	Sep-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)	1910	2045	2068	2000	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	57295	49072	49626	155993	100%	N/A	N/A	
	a) Worker-days, Local or Regional residents	35053	28490	21011	84554	54%			
	b) Worker-days, Other (workers not Local or Regional residents)	22242	20582	28615	71439	46%			
	c) Indigenous	2906	2842	2579	8327	5%			
	d) Non-Indigenous	54389	46320	47047	147756	95%			
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	57295	49072	49626	155993	100%	N	N/A	
	a) Worker-days, Local or Regional resident, residing at home	31766	25451	18132	75349	48%			
	b) Worker-days, not Local or Regional, not staying in TMEP camps (i.e., staying in local rental, hotel)	25529	23621	31494	80644	52%			
	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	23601	21837	21317	66755	N/A	N	N/A	
	b) Total value (\$)	\$ 5,160,276	\$ 4,663,156	\$ 4,916,982	\$ 14,740,414	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) October 2022	N/A			44112	N/A	N/A	N/A	
	b) November 2022				36611	N/A			
	c) December 2022				33669	N/A			

SEEMP Indicator No.	Indicator	Monthly Total			Quarterly Count	%( where applicable)	Threshold Triggered? (Y/N)	If Threshold Triggered, Action Taken
		Jul-22	Aug-22	Sep-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: No minimum threshold. All incidents/accidents will be investigated.</i>							
	Total	1	0	1	2	N/A	N/A	N/A
	a) Number involving injuries	0	0	1	1	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: 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	646	792	892	777	N/A	Y (see Note 1)	Pipeline Contractor has worker transport strategies, using shuttles to transport workforce from staging areas. There are multiple staging areas to support efforts to transport workers to worksites daily, while some positions require a vehicle to complete their work between multiple sites.
	End-month count	566	809	919	765	N/A		
	Average	606	801	906	771	N/A		
8	Personal vehicles in staging area per day (average) <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	718	573	634	642	N/A	N	N/A
	End-month count	613	671	652	645	N/A		
	Average	666	622	643	644	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: Qualitative feedback from local health authority regarding capacity concerns.</i>							
	a) Total number of times a worker was referred or sent to local health facilities	5	18	18	41	100%	N	N/A
	i. urgent	0	0	0	0	0%		
	ii. non-urgent	5	18	18	41	100%		
	iii. occupational	1	5	11	17	41%		
	iv. non-occupational	4	13	7	24	59%		
	b) Total number of times a worker required ambulance or other emergency transport	0	0	0	0	N/A		
10	Number of medical visits to Project on-site medical facilities <i>Threshold for Action: Number, when calculated as a percentage of average number of workers per month rises from the previous reporting cycle.</i>							
	Total	99	147	238	484	100%	Y	Contractor continuing to evaluate on-site medical services to ensure they are adequate to support Project needs. Contractor anticipates increasing on-site nursing personnel.
	a) occupational	26	34	138	198	41%		
	b) non-occupational	73	113	100	286	59%		
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>							
	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	<b>Qualitative feedback about Project use of local/regional commercial accommodation (e.g., hotels, motels, campgrounds)</b> <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	<b>Number and types of calls/complaints received through TMEP feedback line about construction-related social impacts</b> <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
	Jul-22	Total: 4 % Indigenous: 0 % Non-Indigenous: 100	Worker conduct - confrontation between Project worker and local business employee	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. In this instance, the issue has been shared with the contractor for follow-up.	
	Aug-22	Total: 25 % Indigenous: 0 % Non-Indigenous: 100	Sensory disturbance - Project-related dirt and mud on Surrey streets, Surrey air quality, noise and vibration, light coming from WMT, construction noise in Meadowood and Coquitlam	Trans Mountain will follow up on dust, light, noise and vibration complaints to confirm their relation to Project activity. Trans Mountain is working to ensure compliance with bylaws and requirements. Trans Mountain will work with stakeholders to resolve and address such complaints where practical. For example, the loudspeaker close to Redwoods has been turned off so will no longer be triggered by movement. The street sweeper in Surrey has been advised and will be paying particular attention to the areas mentioned.	
	Sep-22	Total: 14 % Indigenous: 0 % Non-Indigenous: 100	Sensory disturbance - residents near Redwoods Golf Course complained about after hours noise and vibration from HDD and noise from Project-related security system at night		
			Sensory disturbance - dust and debris in Fraser Heights and along United Blvd		
			Traffic – cars driving in pedestrian and bike lands near Government St, speeding, traffic and general complaints about detours as a result of Government St and Hartley Ave closure, directional signage falling over along United Blvd.	Trans Mountain will continue to follow up on any traffic-related. Contractors have a Traffic Management Plan that addresses public protection measures, access roads/routes to the construction site and Traffic Control Plans for each work zone which consider potential impacts with mitigation. Trans Mountain follows with the contractor to ensure traffic-related requirements are being met. Each complaint is examined in order to provide additional information and/or appropriate follow-up. For example, road closures are being evaluated in order to review measures that can be taken to make improvements. Traffic inspectors will be monitoring the areas of the road closures on a daily basis to ensure roadways are safe.	
					N/A

	Month	Number, originating from the region	Common Socio-Economic Impact Themes During the Quarter			
			Access Limitations - Hartley Ave businesses complained about trucks having difficulty navigating into their driveway, Hartley Ave resident complained about needing consistent access to their building, businesses on Government St complained about decreased access to their buildings	Trans Mountain will continue to follow up on any access-related concerns. Each complaint is examined in order to provide additional information and/or appropriate follow-up. For example, Traffic inspectors will be monitoring the areas of the road closures on a daily basis to ensure roadways are safe.		
			Water use - New Life Church on Government St. complained about a broken waterline to their community garden	Trans Mountain will continue to follow up on any concerns. The issue was raised with the contractor and the water line has been repaired.		
12	<b>Qualitative feedback themes about community concerns and experienced social effects</b> <b>Threshold for Action:</b> Adverse socio-economic issue or concern from an appropriate government authority or service provider or community organization.					
	None					
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> <b>Threshold for Action:</b> 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 June 26 - August 27, 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 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 (771) is approximately 39% of the average workers on site per day (2000).