

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

October to December 2023



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
		Oct-23	Nov-23	Dec-23				
N/A	Total calendar days of construction site work during the reporting cycle	31	25	12	68	N/A	N/A	
	Workers on site per day (average)	832	624	1110	805	N/A		
1	Number of worker-days in field (categorized in two ways: by geographic origin, and also by Indigenous v. non-Indigenous status) <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>							
	Total Worker-days	25793	15602	13314	54709	100%	Y (See Note 1)	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	12463	6969	6295	25727	47%		
	b) Worker-days, Other (workers not Local or Regional residents)	13330	8634	7020	28984	53%		
	c) Indigenous	1733	694	511	2938	5%		
	d) Non-Indigenous	24061	14908	12803	51772	95%		
2	Number of worker-days in field (categorized by accommodation arrangements of the workers) <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>							
	Total Worker-days	25793	15602	13314	54709	100%	N (See Note 2)	N/A
	a) Worker-days, Local or Regional resident, residing at home	10459	6772	6282	23513	43%		
	b) Worker-days, not Local or Regional, not staying in TMEP camps (i.e., staying in local rental, hotel)	15336	8830	7033	31199	57%		
	c) Worker days, not Local or Regional resident, staying in TMEP camps	0	0	0	0	0%		
3	Living out allowance or related stipend <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	22418	10297	7142	39857	N/A	N (See Note 3)	N/A
	b) Total value (\$)	\$ 3,660,753	\$ 2,155,552	\$ 1,490,568	\$ 7,306,873	N/A		
5	Number of worker-days, in field - anticipated in next business quarter <i>Threshold for Action: N/A - this is a forward indicator to assist stakeholders and Indigenous groups in community readiness.</i>							
					Worker days	Worker onsite per day (avg)		
	a) January 2024	N/A			4829	186	N/A	N/A
	b) February 2024	N/A			2979	115		
	c) March 2024	N/A			1580	61		

SEEMP Indicator No.	Indicator	Monthly Total			Quarterly Count	% (where applicable)	Threshold Triggered? (Y/N)	If Threshold Triggered, Action Taken
		Oct-23	Nov-23	Dec-23				
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	0	0	0	0	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: 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	939	249	95	428	N/A	Y (See Note 4) Pipeline Contractor has had worker transport strategies, using shuttles to transport workforce from staging areas and with 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. No further action required, as construction contractor is demobilizing.	
	End-month count	967	272	0	413	N/A		
	Average	953	261	48	420	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	362	271	224	286	N/A	N (See Note 5)	
	End-month count	329	316	6	217	N/A		
	Average	346	294	115	251	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	27	21	2	50	100%	N (See Note 6)	
	i. urgent	0	0	0	0	0%		
	ii. non-urgent	27	21	2	50	100%		
	iii. occupational	27	19	2	48	96%		
	iv. non-occupational	0	2	0	2	4%		
	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	119	64	60	243	100%	N (See Note 7)	
	a) occupational	51	23	22	96	40%		
	b) non-occupational	68	41	38	147	60%		
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	

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-23	Total: 9 % Indigenous: 0 % Non-Indigenous: 100	Sensory disturbance - vibration, dust and noise in Surrey; and Project-related dust and noise in Fraser Heights.	Trans Mountain will follow up on dust, light, noise and vibration complaints to confirm their relation to Project activity. Trans Mountain is monitoring to ensure compliance with bylaws and requirements. Trans Mountain will work with stakeholders to resolve and address such complaints where practical. Each complaint is examined in order to provide additional information and/or appropriate follow-up. Damage claims are investigated.		
	Nov-23	Total: 2 % Indigenous: 0 % Non-Indigenous: 100	Water use - Surrey resident concern about plumbing issues allegedly related to Project-construction.	Trans Mountain will follow up on land owner complaints to confirm their relation to Project activity. Damage claims are investigated.		
	Dec-23	Total: 1 % Indigenous: 0 % Non-Indigenous: 100	Traffic/Driving – Project-related traffic in Fraser Heights and Burnaby; and Project-related trucks using Halston Crt. to turn around; muddy driveway in Langley.	Trans Mountain will continue to follow up on traffic-related concerns. 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 requirements are being met. Each complaint is examined in order to provide additional information and/or appropriate follow-up. For example regarding trucks on Halston Crt., crews have been reminded to use the main roads and not side streets.		
			Recreation - complaint about bike trail being cut off by Trans Mountain fencing in Coquitlam.	Trans Mountain will follow up with stakeholders to resolve and address Project complaints where practical. Each complaint is examined in order to provide additional information and/or appropriate follow-up.		

12	Qualitative feedback themes about community concerns and experienced social effects				
	<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
	Environmental concern <i>(City of Burnaby)</i>	Turbid discharge flowing from Burnaby Mountain.	Trans Mountain will follow-up on community concerns related to construction environmental issues. Environmental mitigation measures are outlined in Project Environmental Protection Plans.	Y	Trans Mountain confirmed there is a water treatment plant and pumps in place for construction at Burnaby Terminal, and heavy rains contributed to the issue. It has been reported to the regulator. Planning and mitigation will be reviewed and adjusted as needed.
	Worker Conduct <i>(Individual)</i>	Reckless driving and verbal conduct from a Trans Mountain worker in Burnaby.	Trans Mountain will continue to follow up on any worker-related concerns. Complaints regarding worker conduct in community are investigated internally to determine appropriate disciplinary action.	N	N/A
	Sensory Disturbance <i>(Individuals)</i>	Project-related dust, noise and vibration in Surrey. Night noise near WMT.	Trans Mountain will follow up on dust, light, noise and vibration complaints to confirm their relation to Project activity. Trans Mountain is monitoring to ensure compliance with bylaws and requirements. Trans Mountain will work with stakeholders to resolve and address such complaints where practical. Each complaint is examined in order to provide additional information and/or appropriate follow-up. For night noise near WMT, Trans Mountain engaged the resident and shared that the source of the noise was being looked into and asked the resident to contact them directly should the noise start again.	N	N/A
Environmental concern <i>(Individual)</i>	Concern regarding alleged well water contamination in Langley.	Trans Mountain will follow-up on community concerns related to construction environmental issues. Environmental mitigation measures are outlined in Project Environmental Protection Plans, including mitigation related to water quality. In this instance, the Land team investigated.	N	N/A	
Infrastructure and Services <i>(Township of Langley)</i>	Sinkholes on road in Township of Langley.	Trans Mountain will continue to follow up on road infrastructure-related concerns. Trans Mountain team member confirmed a sinkhole was discovered and it was investigated.	Y	The hole was backfilled, and fencing was installed to facilitate monitoring through the winter	
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				
	<i>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.</i>				
	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 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 October 1, 2023 - December 30, 2023.
- 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/accommodations; 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. While calculations comparing indicator 1 to the estimated workforce in the original WAS are no longer possible due 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.
- Data may be subject to revisions based on updates from Contractors or ongoing quality reviews.

Quantitative Threshold Analysis Notes:

1. For Indicator 1, data is not available. Construction workforce continues beyond Worker Accommodation Strategy predicted timeframe.
2. For Indicator 2, no adverse feedback was received from local authorities or tourism/hotel associations; therefore, the threshold has not been triggered.
3. For Indicator 3, there was a decrease in the number of worker-days paid for indicator 3a from the previous reporting cycle (quarterly total) and no adverse feedback was received from local authorities or tourism/hotel associations; therefore, the threshold has not been triggered.
4. For Indicator 7, the average workers transported from staging areas per day (420) is approximately 52.2% of the average workers on site per day (805); therefore, the threshold has been triggered.
5. For Indicator 8, the personal vehicles in the staging area per day (average) was less than 10% of the AADT values at locations nearest to staging yards; therefore, the threshold has not been triggered.
6. For Indicator 9, no feedback was received from the local health authority regarding capacity concerns; therefore, the threshold has not been triggered.
7. For Indicator 10, the total as a percentage of average number of workers per month reflected as workers on site per day (average over quarter) (30.1%), is lower than the previous reporting cycle (31%); therefore, the threshold has not been triggered.