

Trans Mountain Expansion Project Socio-Economic Monitoring Report - Fraser Valley Region

October to December 2022 (Rev 1)



Introduction

This report presents the quarterly socio-economic monitoring results for the Fraser Valley 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, Coquihalla Hope for the regional context indicators that reflect the broader socio-economic conditions in which Project construction is occurring.

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

(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
		Oct-22	Nov-22	Dec-22				
N/A	Total calendar days of construction site work during the reporting cycle	30	24	30	84	N/A	N/A	
	Workers on site per day (average)	723	862	532	695	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	21686	20693	15972	58351	100%	Y	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	9593	9283	7044	25920	44%		
	b) Worker-days, Other (workers not Local or Regional residents)	12093	11410	8928	32431	56%		
	c) Indigenous	2832	2885	2068	7785	13%		
	d) Non-Indigenous	18854	17808	13904	50566	87%		
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	21686	20693	15972	58351	100%	N	N/A
	a) Worker-days, Local or Regional resident, residing at home	4980	5457	4173	14610	25%		
	b) Worker-days, not Local or Regional, not staying in TMEP camps (i.e., staying in local rental, hotel)	16706	15236	11799	43741	75%		
	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	16700	15269	11835	43804	N/A	N	N/A
	b) Total value (\$)	\$ 3,094,790	\$ 2,820,493	\$ 2,208,075	\$ 8,123,358	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 2023	N/A			12975	N/A	N/A	N/A
	b) February 2023				13718	N/A		
	c) March 2023				17539	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	1	0	1	2	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	381	387	307	358	N/A	Y (see Note 1)	Pipeline contractor confirms they are using multi-passenger vehicles to transport workers for crews that have larger numbers of personnel working in the same area/vicinity. Workers required to move between sites are using personal vehicles.
	End-month count	380	333	0	238	N/A		
	Average	381	360	154	298	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	392	405	349	382	N/A	N	N/A
	End-month count	428	408	5	280	N/A		
	Average	410	407	177	331	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	1	4	6	11	N/A	N	N/A
	i. urgent	0	1	1	2	N/A		
	ii. non-urgent	1	3	5	9	N/A		
	iii. occupational	1	4	6	11	N/A		
	iv. non-occupational	0	0	0	0	N/A		
	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:</i> Number, when calculated as a percentage of average number of workers per month rises from the previous reporting cycle.							
	Total	9	6	17	32	N/A	Y	Contractor continuing to evaluate on-site medical services and confirms they are adequate to support Project needs.
	a) occupational	6	6	16	28	N/A		
	b) non-occupational	3	0	1	4	N/A		
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	Trans Mountain Response	N/A
	Oct-22	Total: 12 % Indigenous: 0 % Non Indigenous: 100	Sensory disturbance - noise in Harrison Hot Springs from backup beepers Project-related vehicles; dust near Silverthorn Road; noise and vibration allegedly impacting house foundation on Old Clayburn Road; noise and vibration from construction during the day in Abbotsford; noise and fumes from a generator in Chilliwack; and dust from construction at Kinloch Place and Bridal Falls	Trans Mountain will follow up on noise, dust 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, while there will still be noise associated with the open cut construction, there should be no need for the continuous hammering. Noise and vibration monitoring is in place on-site during construction and have remained within allowable limits.	
	Nov-22	Total: 8 % Indigenous: 0 % Non Indigenous: 100	Access - trail closures in Sandy Hill	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, information was provided that the Sandy Hill trails needed to be closed for safety reasons.	
	Dec-22	Total: 6 % Indigenous: 0 % Non-Indigenous: 100	Traffic - Angus Crescent resident concern about the additional traffic related to pipe deliveries; Kinloch Place resident complaint about lack of parking; Chilliwack resident concern about alleged traffic controller conduct and damage to vehicle; Project-related vehicles use of parking spaces on Sheena Place.	Trans Mountain will continue to follow up on any 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 traffic-related requirements are being met. Each complaint is examined in order to provide additional information and/or appropriate follow-up. For example, vehicle damage is being investigated and crews have been advised not to park on streets.	

12	Qualitative feedback themes about community concerns and experienced social effects <i>Threshold for Action:</i> Adverse socio-economic issue or concern from an appropriate government authority or service provider or community organization.				
	Theme	Impact Overview	Trans Mountain Response		If Threshold Triggered, Action Taken
	Sensory (Individual)	Vibration in City of Abbotsford allegedly causing cracks in residents foundation.	Trans Mountain will follow up on noise, dust 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. In this instance, vibration monitoring is in place and shows that Trans Mountain is within safe levels.	N	N/A
	Sensory (Individual)	Noise, vibration and dust in City of Abbotsford.			
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:</i> 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.				
	None			N	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 September 25, 2022 - December 31, 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.
- 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 (298) is approximately 43% of the average workers on site per day (695)