

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

January to March 2023



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)

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
		Jan-23	Feb-23	Mar-23				
N/A	Total calendar days of construction site work during the reporting cycle	24	24	24	72	N/A	N/A	
	Workers on site per day (average)	823	790	1831	1148	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	19762	18970	43945	82677	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	8195	8256	19448	35899	43%		
	b) Worker-days, Other (workers not Local or Regional residents)	11567	10714	24497	46778	57%		
	c) Indigenous	2353	2657	6029	11039	13%		
	d) Non-Indigenous	17409	16313	37916	71638	87%		
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	19762	18970	43945	82677	100%	N	N/A
	a) Worker-days, Local or Regional resident, residing at home	5509	4678	12940	23127	28%		
	b) Worker-days, not Local or Regional, not staying in TMEP camps (i.e., staying in local rental, hotel)	14253	14292	31005	59550	72%		
	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	14294	14318	31445	60057	N/A	N	N/A
	b) Total value (\$)	\$ 2,726,049	\$ 2,685,924	\$ 5,998,850	\$ 11,410,823	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	Workers per day (avg)		
	a) April 2023	N/A			37880	1457	N/A	N/A
	b) May 2023				44409	1708		
	c) June 2023				41192	1584		

SEEMP Indicator No.	Indicator	Monthly Total			Quarterly Count	% (where applicable)	Threshold Triggered? (Y/N)	If Threshold Triggered, Action Taken
		Jan-23	Feb-23	Mar-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	1	1	2	4	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: 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	361	300	838	500	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	435	270	861	522	N/A		
	Average	398	285	850	511	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	392	333	793	506	N/A	N	N/A
	End-month count	491	322	821	545	N/A		
	Average	442	328	807	525	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	7	3	6	16	N/A	N	N/A
	i. urgent	0	0	0	0	N/A		
	ii. non-urgent	7	3	6	16	N/A		
	iii. occupational	7	3	2	12	N/A		
	iv. non-occupational	0	0	4	4	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: Number, when calculated as a percentage of average number of workers per month rises from the previous reporting cycle.</i>							
	Total	15	8	21	44	N/A	N	N/A
	a) occupational	14	8	10	32	N/A		
	b) non-occupational	1	0	11	12	N/A		
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	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			
	Jan-23	Total: 8 % Indigenous: 0 % Non Indigenous: 100	Sensory disturbance - security alarm noise; noise and vibration in Sandy Hill and Abbotsford; noise from air brakes and idling near McKinley Drive; vibration causing damage to home on Poplar Court; dust in Chilliwack; noise on Bradner Road in Chilliwack; dirt on roadways and dust on properties and vehicles in Abbotsford; light disturbance near the Salmon River crossing; dust in Sandy Hill, Bridal Falls, Swallow Place; Kinloch Place and Belanger Drive; noise in Langley as a result of the trenchless crossing in the West Munday Creek area; vibration allegedly impacting home; noise on Wilson Road; noise and vibration from construction near Eckert Street; Bridal Falls resident concern about odours and noise; debris on McKee Road in Abbotsford.	Trans Mountain will follow up on noise, dust 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. For example, for dust the appropriate dust suppression measures will be taken. For the Bridal Falls noise and odour the complaint was investigated and the cause was found to be a generator operating a security/light plant.	N/A	N/A	
	Feb-23	Total: 17 % Indigenous: 0 % Non Indigenous: 100	Environmental concerns - watercourse diverted onto Rosedale property	Trans Mountain will follow-up on community concerns related to construction environmental issues. Environmental mitigation measures are outlined in Project Environmental Protection Plans. In this instance, environmental inspectors increased the pump off inspections related to dewatering and the timeframe for dewatering was discussed.			

			<p>Access - Sandy Hill resident complained about ongoing trail closures in the area; Project-related vehicles drove on private driveway on Poplar Court and Angus Cres. and caused damage; damage to a basketball net from a Project-related vehicle in Sandy Hill; condition of a pathway near Vedder Middle School; Project-vehicle blocking driveway in Sandy Hill; barricade blocking driveway on Canterbury; flaggers blocking driveway access on Chilliwack River Road; community mailboxes being blocked by AFADs; Project-workers parking on property on Chilliwack River Road and Sheena Place and damaging yard; Project-related barricades impacting access to resident on Eckert St in Chilliwack.</p>	<p>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, for the trail closures, closure was extended due to a change in the construction timeline and it is expected trails will reopen in the spring. For the community mailboxes being blocked, the traffic team in the area is aware and access to the community mailboxes is not to be blocked.</p>		
Mar-23	Total: 22 % Indigenous: 0 % Non-Indigenous: 100		<p>Traffic - Project-related vehicles parking along the street in Sandy Hill and on Safflower St in Chilliwack; traffic causing delays in Chilliwack; truck traffic in Sandy Hill; trucks idling in Sandy Hill and on Swallow Place; Abbotsford residents car was damaged when hit by the arm of an automated flagger; traffic around the Bainbridge temporary site.</p>	<p>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, contractors have been reminded of the expectation to strictly limit idling. Regarding the automated flagger complaint was investigated and resolved. For traffic and delay related concerns, Trans Mountain has thanked residents for their patience dealing with traffic while construction is ongoing.</p>	N/A	N/A
			<p>Worker conduct - urination, inappropriate comments, ordering food to resident's address.</p>	<p>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 worker conduct in community are investigated internally to determine appropriate disciplinary action.</p>		

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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
Traffic (City of Chilliwack)	Length of traffic control, deliveries on roadway, stability of barricades, driving behaviour.	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. Trans Mountain follows up with the contractor to ensure traffic-related requirements are being followed.	Y	<p>A memo was issued to all the Traffic control personnel, Lane closure technicians, Traffic supervisors and Traffic manager on the need to keep traffic moving as practicably and quickly as possible and ensure that the delays do not exceed 3 minutes at any time. Traffic supervisors will make site assessments and record queueing.</p> <p>Trans Mountain followed up internally and confirmed deliveries are done at some of the access points with the use of SLATs only and with the use of Yukon Mats (HEC mats). We will work to ensure the continuous flow of traffic while the deliveries in the SLAT are going on and no damages occur to the roadway. The Contractor will keep traffic moving immediately after the SLAT is set up so there are no excessive delays or wait times.</p> <p>Traffic team will ensure that all the barricades will have sandbags to provide stability.</p> <p>Safe driving is emphasized in regular safety meetings. TMEP Security has alerted RCMP on this issue, and there will be more monitoring and enforcement from RCMP in response to these occurrences. GCC will discuss safe driving behaviour with crews.</p>
Worker Conduct (City of Chilliwack)	Worker inappropriate language.	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 worker conduct in community are investigated internally to determine appropriate disciplinary action.	Y	While there are no details regarding the particular person(s) involved in the alleged interaction, Contractor management team has highlighted the need to be friendly and respectful during interactions with all people in the communities in the Chilliwack and Abbotsford areas.
Sensory Disturbance (One resident in Abbotsford)	Trucks driving by house causing vibration.	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. Trans Mountain follows up with the contractor to ensure traffic-related requirements are being followed. In this instance, Trans Mountain asked contractor to remind crews not to stop in front of homes and idle.	N	N/A
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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 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	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 January 1, 2023 - March 25, 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.
- 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 (511) is approximately 44% of the average workers on site per day (1148).