

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

April to June 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
		Apr-23	May-23	Jun-23				
N/A	Total calendar days of construction site work during the reporting cycle	30	28	28	86	N/A	N/A	
	Workers on site per day (average)	1912	2108	2263	2090	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	57359	59029	63359	179747	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	26542	27045	26876	80463	45%		
	b) Worker-days, Other (workers not Local or Regional residents)	30817	31984	36483	99284	55%		
	c) Indigenous	7694	7519	8234	23447	13%		
	d) Non-Indigenous	49665	51510	55125	156300	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	57359	59029	63359	179747	100%	N (See Note 2)	N/A
	a) Worker-days, Local or Regional resident, residing at home	22004	19582	22225	63811	36%		
	b) Worker-days, not Local or Regional, not staying in TMEP camps (i.e., staying in local rental, hotel)	35355	39447	41134	115936	64%		
	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	35384	39083	41149	115616	N/A	N (See Note 3)	N/A
	b) Total value (\$)	\$ 6,967,480	\$ 7,504,823	\$ 8,086,574	\$ 22,558,877	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) July 2023	N/A			45314	1743	N/A	N/A
	b) August 2023				39653	1525		
	c) September 2023				28133	1082		

SEEMP Indicator No.	Indicator	Monthly Total			Quarterly Count	% (where applicable)	Threshold Triggered? (Y/N)	If Threshold Triggered, Action Taken
		Apr-23	May-23	Jun-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	4	2	2	8	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	1029	1213	1497	1246	N/A	Y (See Note 4)	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	1242	1271	1435	1316	N/A		
	Average	1136	1242	1466	1281	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	761	1041	1289	1030	N/A	N (See Note 5)	N/A
	End-month count	1006	1274	1278	1186	N/A		
	Average	884	1158	1284	1108	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	13	6	26	N/A	N (See Note 6)	N/A
	i. urgent	3	1	1	5	N/A		
	ii. non-urgent	4	12	5	21	N/A		
	iii. occupational	5	7	3	15	N/A		
	iv. non-occupational	2	6	3	11	N/A		
	b) Total number of times a worker required ambulance or other emergency transport	0	0	1	1	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	18	18	23	59	N/A	N (See Note 7)	N/A
	a) occupational	10	9	13	32	N/A		
	b) non-occupational	8	9	10	27	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		
	Apr-23	Total: 7 % Indigenous: 0 % Non Indigenous: 100	Sensory disturbance - noise, dust, vibration. Project-related noise, vibration and dust in Chilliwack around South Sumas Rd, and on Yarrow Central Road; resident complained of cracks in foundation, drywall and sinking driveway; noise and vibration related to pile driving near Popkum Road South in Rosedale; noise early on Saturday morning in Chilliwack; weeds growing along the temporary fence at Watson Elementary in Chilliwack; noise on Steward Rd impacting residents on Yarrow Central Rd; dust at Bridal Falls RV Park; dust and debris in Surrey, Rosedale and Chilliwack; noise on Vedder Mountain Rd from sheet piling; noise and vibration on McKee Rd; Project-related dust and noise in Yarrow; dust on road by Bridal Falls RV Park; alleged damage to home in Chilliwack as a result of Project-related vibrations; Project-related vibrations in Yarrow.	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, regarding the weeds growing along the fence at Watson Elementary, Trans Mountain has advised the contractor and will ask them to mow, if possible. Regarding the dust on roads, Trans Mountain deploys water trucks to assist dust suppression in areas where work is taking place. Currently no work is taking place west of Chilliwack River Road. Regarding the noise on Vedder Mountain Rd, the resident was informed of the timeframe and informed that work should be completed by end of June.	N/A	N/A
	May-23	Total: 18 % Indigenous: 0 % Non Indigenous: 100	Environmental concerns - resident on Lumsden Road complained that a pond has dried up allegedly as a result of Project-related activities; small roadside channel running parallel to Lumsden Road has run dry; residents on Corbett Place complained of water ingress in yards; Abbotsford resident complained that well has run dry as a result of Project-related activities; complaint that crews are allegedly flushing trucks into a catchment that flows into Clayburn Creek.	Trans Mountain will follow-up on community concerns related to construction environmental issues. Environmental mitigation measures are outlined in Project Environmental Protection Plans. Regarding the dewatering causing waterways to run dry, an investigation has been initiated. Regarding the pond that has dried up, the environment team is investigating and a hydrologist will be attending the site. In the instance concern about Clayburn Creek catchment, a Trans Mountain environmental inspector attended the site and identified that debris was built up in the storm drains; this was entered as a deficiency and will be corrected. Road conditions remained clean throughout the day and this was documented during the site visit.		

			Access limitations - Complaint about the closure of trails in Abbotsford; closure of trails near Angus Crescent 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, the trails in Sandy Hill should be reopened in July.		
	Jun-23	Total: 11 % Indigenous: 0 % Non-Indigenous: 100	Traffic - Project-related trucks speeding along McKee Road; shoulder deterioration on road in Chilliwack; traffic causing delays in Abbotsford; mud and dirt on roadways in Abbotsford; alleged damage to two vehicles as a result of an incident with a Project-related automatic flagger on Keith Wilson Rd.; owner business complained about traffic impacts on Marion Road; complaint about flaggers on McKee Rd in Abbotsford and the lack of flaggers by Bridal Falls RV Park.	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, regarding the speeding on McKee Road, the contractor has reminded truck drivers to obey traffic laws and be respectful in neighbourhoods. Regarding the automatic flagger incident, the Trans Mountain team is dealing with the claim.	N/A	N/A

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.

	Theme	Impact Overview	Trans Mountain Response	Threshold Triggered? Y/N	If Threshold Triggered, Action Taken
	Infrastructure and Services (City of Chilliwack)	Shoulder deterioration and potholes.	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.	Y	Trans Mountain will have Contractor repair and monitor the road.
	Environmental issues (City of Chilliwack)	Water flow in ditch and channel.	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 initiated an investigation.
	Traffic (City of Abbotsford, City of Chilliwack)	Traffic delays (McKee Road, Annis / Chilliwack Central)	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. TMEP also monitors delays along the Project Corridor through a Delay Coordination System.	Y	Trans Mountain followed-up with the Construction team and Contractors for each area. In Chilliwack area, the Contractor discussed with the traffic team and crews for the area, and the adjustment involved not loading/unloading in a particular area which is what was causing the delay. In the Abbotsford area, Trans Mountain followed up with the Contractor with a reminder about activities not impacting traffic more than the delay limits.
	Worker Conduct (City of Chilliwack)	Inappropriate worker gesture	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	Trans Mountain followed up with the contractor about the incident. Contractor brought the issue up to their team as a reminder about respect in the community.
	Sensory Disturbance (City of Chilliwack)	Noise on Saturdays	Trans Mountain will continue to follow up on noise complaints to confirm their relation to Project activity. Trans Mountain is working to ensure compliance with noise-related bylaws and requirements. Trans Mountain will work with stakeholders to resolve and address such complaints where practical. In this instance, the work was occurring during allowed time per the bylaw and the City indicated no plans to restrict work within the noise bylaw.	Y	Trans Mountain followed up with the City, and provided a reminder to crews to be mindful about minimizing noise during the period prior to start of work at 7:00 a.m. work period (i.e., quiet voices).

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 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 March 26, 2023 - June 24, 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.

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 an increase in the number of worker-days paid for indicator 3a from the previous reporting cycle (quarterly total), but 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 (1281) is approximately 61% of the average workers on site per day (2090); 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.