

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

July to September 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
		Jul-23	Aug-23	Sep-23				
N/A	Total calendar days of construction site work during the reporting cycle	31	31	30	92	N/A	N/A	
	Workers on site per day (average)	2548	2287	2504	2446	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	78994	70903	75105	225002	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	32910	29327	33156	95393	42%		
	b) Worker-days, Other (workers not Local or Regional residents)	46084	41576	41949	129609	58%		
	c) Indigenous	10147	9039	9684	28870	13%		
	d) Non-Indigenous	68847	61864	65421	196132	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	78994	70903	75105	225002	100%	N (See Note 2)	N/A
	a) Worker-days, Local or Regional resident, residing at home	35410	28304	28233	91947	41%		
	b) Worker-days, not Local or Regional, not staying in TMEP camps (i.e., staying in local rental, hotel)	43584	42599	46872	133055	59%		
	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	43610	42565	47959	134134	N/A	N (See Note 3)	N/A
	b) Total value (\$)	\$ 8,756,232	\$ 8,488,611	\$ 9,577,590	\$ 26,822,433	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) October 2023	N/A			34937	1344	N/A	N/A
	b) November 2023				21731	836		
	c) December 2023				8026	309		

SEEMP Indicator No.	Indicator	Monthly Total			Quarterly Count	% (where applicable)	Threshold Triggered? (Y/N)	If Threshold Triggered, Action Taken
		Jul-23	Aug-23	Sep-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	2	1	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	1509	1417	1480	1469	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	1542	1506	1388	1479	N/A		
	Average	1526	1462	1434	1474	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	1357	1014	1399	1257	N/A	N (See Note 5)	N/A
	End-month count	1372	1027	1343	1247	N/A		
	Average	1365	1021	1371	1252	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	8	9	13	30	N/A	N (See Note 6)	N/A
	i. urgent	3	3	1	7	N/A		
	ii. non-urgent	5	6	12	23	N/A		
	iii. occupational	6	5	6	17	N/A		
	iv. non-occupational	2	4	7	13	N/A		
	b) Total number of times a worker required ambulance or other emergency transport	0	1	1	2	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	26	50	38	114	N/A	Y (See Note 7)	Contractor continuing to evaluate on-site medical services and confirms services are adequate to support Project needs.
	a) occupational	14	16	12	42	N/A		
	b) non-occupational	12	34	26	72	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		
	Jul-23	Total: 23 % Indigenous: 0 % Non-Indigenous: 100	Sensory disturbance - Project-related day and night noise, vibration and dust in Chilliwack; debris in pool; noise on Upper Prairie Road in Abbotsford; noise and vibration on Chilliwack River Road; dust on Popkum Road impacted by street sweepers; dust and noise in Rosedale; noise and vibration as a result of Salmon River HDD; Project-related noise in Yarrow; dust and noise in Sandy Hill; street sweeping impacting dust and debris in Chilliwack; night noise in Abbotsford; noise from Project-related construction at the Bridal Falls RV Park; mud on road at Prairie Central and Gibson in Chilliwack; ongoing construction noise in Yarrow; generator causing noise; and Project-related vibration near Clayburn 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. Each complaint is examined in order to provide additional information and/or appropriate follow-up. For example, the noise and vibration on Chilliwack River Road was anticipated to be complete soon as they finish sheet piling and the trenchless crossing under Chilliwack River Road. Street sweepers have been advised to increase the amount of water they use to help with dust on Popkum Road. Power washing has been offered to those experiencing dust on their cars or houses.	N/A	N/A
	Aug-23	Total: 23 % Indigenous: 0 % Non Indigenous: 100	Environmental concerns - resident concern about water impacts allegedly related to Project dewatering activities; Chilliwack residents complained about the creek and well near house; complaint of a water main break in Chilliwack; Chilliwack resident concern about the dewatering around Peach Creek; debris and contaminated soil on the right-of-way in Abbotsford; ground depression (e.g. sinkholes) forming on property in Chilliwack; Chilliwack resident concern regarding low level of water in a nearby 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 well and creek in Chilliwack, Trans Mountain responded that given the extremely dry warm weather we are monitoring such concerns and working with both the CER and Dept. of Fisheries and Oceans as required. Regarding the alleged ground depressions, the construction team followed up directly. Regarding dewatering, construction team followed up to answer questions in further detail.		

			Worker conduct - concern about individual working for a contractor in Chilliwack.	Trans Mountain will continue to follow up on any worker-related concerns. Each complaint is examined in order to provide additional information and/or appropriate follow-up. In this instance, the complaint was sent to the contractor for further investigation.		
	Sep-23	Total: 21 % Indigenous: 0 % Non-Indigenous: 100	Traffic/Business disruption - local business concern about traffic wait times impacting their business and employees; alleged vehicle impacts in Abbotsford and Chilliwack related to automatic flagger, road plate, general construction; Project-related workers parking along the roadway on Bridal Falls Road; Chilliwack business concern about business loss due to construction; and Project-related worker driving conduct.	Trans Mountain will continue to follow up on any traffic and business-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, for the traffic wait times near business, Trans Mountain advised that wait times should be no longer than three minutes and that equipment will no longer be unloaded during the day. Business loss claims are investigated. Regarding driving conduct, crews were reminded of the importance of safe driving and individual who reported the incident was asked to share videos if any were taken.	N/A	N/A
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 issues (Watershed Watch Salmon Society)	Water levels, water flowing off-site in Chilliwack.	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 engaged with the individual and provided responses and information regarding water discharge practices, noting that Trans Mountain has a testing and monitoring program in place, and the water being released meets the BC Water Quality Guidelines for Aquatic Life. To enable safe trenching for pipeline construction, Trans Mountain pumps ground water away from construction sites under BC Energy Regulator's Section 7 of the Oil and Gas waste regulations.
	Environmental issues (Individuals via City of Abbotsford and City of Chilliwack)	Disruption of wildlife corridors due to pipeline construction. Concern about potential invasive species during reclamation.	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 wildlife. Regarding the invasive species planting, environmental inspector communicated to the complainant that the plant is referred to as the Rosa Woodsii also referred to as Prairie Rose or Wood's Rose, and this is a native shrub that is common in green spaces throughout the Fraser Valley.		N	N/A
	Traffic (Individuals via City of Chilliwack)	Road conditions (McKee Road, Annis / Chilliwack Central / Unsworth crossing access point)	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. Trans Mountain asked the contractor to look into installing bump signage and scheduling a repair at the Unsworth crossing access point.		N	N/A

	Theme	Impact Overview	Trans Mountain Response	Threshold Triggered? Y/N	If Threshold Triggered, Action Taken
	Access <i>(Individual)</i>	Property impacts related to sandbags.	Trans Mountain will continue to follow up on any access-related concerns. Damage claims are investigated.	N	N/A
	Sensory Disturbance <i>(Individuals)</i>	Noise, lights, dust, vibration (Chilliwack / Abbotsford)	Trans Mountain will continue to follow up on sensory disturbance 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. Each complaint is examined in order to provide additional information and/or appropriate follow-up.	N	N/A
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 June 25, 2023 - September 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.
- 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 (1474) is approximately 60% of the average workers on site per day (2446); 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.