Trans Mountain Expansion Project

Socio-Economic Monitoring Report - Lower Mainland Region July to September 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)
For more information contact: info@transmountain.com or 1-866-514-6700

Project-Specific Indicators

Quantitative Indicators

SEEMP	Indicator	Monthly Total		Quarterly Count	%	Threshold Triggered?	If Threshold Triggered, Action Taken	
Indicator No.			Aug-23	Sep-23	,	(where applicable)	(Y/N)	33 47, 44
N/A	Total calendar days of construction site work during the reporting cycle	26	28	30	84	N/A	N/A	
	Workers on site per day (average)	1740	1226	1111	1344	N/A	IV/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	45244	34335	33315	112894	100%		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	21306	15996	16521	53823	48%		
	b) Worker-days, Other (workers not Local or Regional residents)	23938	18339	16794	59071	52%	Y (See Note 1)	
	c) Indigenous	2933	2395	2334	7662	7%		
	d) Non-Indigenous	42311	31940	30981	105232	93%		
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 feed	dback received abo	out adverse issue or co I	oncern from local o	authority or tourism ,	/hotel associati	on representativ	e.
	Total Worker-days	45244	34335	33315	112894	100%	N (See Note 2)	N/A
	a) Worker-days, Local or Regional resident, residing at home	15676	13614	11957	41247	37%		
	b) Worker-days, not Local or Regional, not staying in TMEP camps (i.e., staying in local rental, hotel)	29568	20721	21358	71647	63%		
	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	29589	29922	21393	80904	N/A	N (See Note 3)	N/A
	b) Total value (\$)	\$ 5,415,197	\$ 3,247,462	\$ 4,708,665	\$ 13,371,324	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.							
	Worker days Worker onsite per day (avg)							
	a) October 2023	N/A			16859	648	N/A	N/A
	b) November 2023				11887	457		
	c) December 2023				7430	286		

SEEMP Indicator No.	Indicator	Monthly Total		Quarterly Count	% (where applicable)	Threshold Triggered?	If Threshold Triggered, Action Taken		
mulcator ivo.		Jul-23	Aug-23	Sep-23		(where applicable)	(Y/N)		
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 Threshold for Action: No minimum threshold. All incidents/accidents will be investigated.								
	Total	0	0	0	0	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) Threshold for Action: Number, when calculated as a % of total workers on site (average during the month of the count) is less than 75%.								
	Mid-month count	977	1647	1628	1417	N/A		N/A	
	End-month count	1321	1357	1334	1337	N/A	N (See Note 4)		
	Average	1149	1502	1481	1377	N/A			
8	Personal vehicles in staging area per day (average) Threshold for Action: Number is 10% or more of AADT values at locations nearest to staging yards and qual	litative feedback re	eceived about adverse	traffic volume issu	ues via indicators #1:	1 and #12.			
	Mid-month count	592	592	444	543	N/A	N (See Note 5)	N/A	
	End-month count	586	570	325	494	N/A			
	Average	589	581	385	518	N/A			
9	Number of times a "captive" Project worker was referred to a local health facility or required emergency medical transport ("Captive" workers on a Project premises, i.e., in camp or on work-site)								
9	Threshold for Action: Qualitative feedback from local health authority regarding capacity concerns.								
	a) Total number of times a worker was referred or sent to local health facilities	16	24	25	65	100%		N/A	
	i. urgent	8	8	0	16	25%			
	ii. non-urgent	8	16	25	49	75%	N		
	iii. occupational	11	8	10	29	45%	(See Note 6)		
	iv. non-occupational	5	16	15	36	55%			
	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 Threshold for Action: Number, when calculated as a percentage of average number of workers per month ri	ses from the previ	ous reportina cvcle.						
	Total	142	165	110	417	100%		Contractor continuing to evaluate on-site medical services to ensure they are adequate to support Project needs. In addition, July to September had an increased number of wasp stings which led to a higher number of medical visits.	
	a) occupational	33	41	32	106	25%	Y (See Note 7)		
	b) non-occupational	109	124	78	311	75%	(See NOTE /)		
14	Number of people affected by a notifiable disease in a work camp								
	Threshold for Action: No minimum threshold; all notifiable diseases will be reported to the local health author	1							
	Total	0	0	0	0	N/A	N/A	N/A	

Qualitative Indicators

SEEMP Indicator No.		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)								
	Threshold for Action: Qualitative feedback received about adverse issues from local authorities, tourism/hotel associations or hotels used by Contractor.								
	None				N	N/A			
11	Number and types of calls/complaints received through TMEP feedback line about construction-related social impacts Threshold for Action: There is no threshold for action as all grievances will be responded to.								
	Month	Number, originating from the region	Common Socio-Econom	ic Impact Themes During the Quarter					
	Jul-23 Aug-23	Total: 19 % Indigenous: 0 % Non-Indigenous: 100 Total: 18 % Indigenous: 0	Sensory disturbance - dust in Burnaby allegedly related to sandblasting at Burnaby Terminal; vibration, dust, noise and odour near Salmon River; noise and dust in Fraser Heights; Project-related dust near Redwood Golf Course; debris along the Fraser Brunette Regional Greenway in Burnaby; noise and dust on Glover Road; vibration and noise in Langley; noise from a Project-related excavator in Burnaby; light and noise related to Westridge Marine Terminal; night noise from the HDD activities at Salmon River in Langley; vibration in Langley, Fraser Heights, and Surrey; Surrey residents complained about noise, dust and vibrations.	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. All damage claims related to vibration or other are investigated. In the instance of the lights from WMT, Trans Mountain requested a photo to identify the light so they could provide it to contractor, and contractor is going to adjust the lights.	N/A	N/A			
	Sep-23	% Non-Indigenous: 100 Total: 12 % Indigenous: 0	Business impacts - a business owner concern about business loss.	Trans Mountain will continue to follow up on any traffic-related or business impact concerns.					
		% Non-Indigenous: 100	Traffic/Driving— Project-related truck traffic in Wembley Estates outside of agreed upon hours; Project-related security vehicles idling in Burnaby; Project-related trucks turning around in Halston Court, Burnaby; continued closure of Government Street.	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 the security vehicles idling, a reminder was sent regarding the anti-idling policy. Regarding trucks turning around in Halston Court, the issue was raised to the construction team to be addressed with the truck drivers. Regarding the closure of Government Street, the road is being opened to alternating traffic September 5-15, and will re-open fully once construction is complete.					
			Worker conduct - conduct of a traffic control person in Langley.	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. Complaints regarding worker conduct in community are investigated internally to determine appropriate disciplinary action.					

12	Qualitative feedback themes about community concerns and experienced social effects							
12	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			
	Environmental (Burnaby Stream keeper)	road in Burnaby.	Trans Mountain will follow-up on community concerns related to construction environmental issues. Environmental mitigation measures are outlined in Project Environmental Protection Plans.	Y	Incident is being investigated.			
	Worker Conduct (Individual Business)	, , ,	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.		Investigation determined disciplinary action; individual removed from the Project.			
	Sensory Disturbance (Individuals)	in Surrey; noise at Westridge Marine Terminal; engine odour in Meadowood.	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.	N	N/A			
	Traffic (Individual)		Trans Mountain will continue to follow up on traffic-related or business impact concerns. Contractors have a Traffic Management Plan addressing public protection measures, access roads/routes to the construction site and Traffic Control Plans for each work zone. Trans	N	N/A			
	Business Impacts (Local Business)	contractor.	Mountain is working to ensure compliance with related bylaws and requirements. Trans Mountain will work with stakeholders to resolve and address such complaints where practical. Regarding the rent owed, the outstanding amount has been paid. Business impact claims will be evaluated.	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 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 footprint.							
	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 con struction 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.
- 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 (1377) is approximately 100% of the average workers on site per day (1344); therefore, the threshold has not 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) (31.0%), is higher than the previous reporting cycle (13.4%); therefore, the threshold has been triggered.