

Trans Mountain Expansion Project Socio-Economic Monitoring Report - Lower Mainland Region

October to December 2022



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)

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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)	2079	2301	1498	1935	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	62372	55235	44953	162560	100%	N/A	N/A
	a) Worker-days, Local or Regional residents	35962	31201	26036	93199	57%		
	b) Worker-days, Other (workers not Local or Regional residents)	26410	24034	18917	69361	43%		
	c) Indigenous	3295	2987	2208	8490	5%		
	d) Non-Indigenous	59077	52248	42745	154070	95%		
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	62372	55235	44953	162560	100%	N	N/A
	a) Worker-days, Local or Regional resident, residing at home	33172	28124	24224	85520	53%		
	b) Worker-days, not Local or Regional, not staying in TMEP camps (i.e., staying in local rental, hotel)	29200	27111	20730	77041	47%		
	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	26786	25676	19628	72090	N/A	N	N/A
	b) Total value (\$)	\$ 6,367,033	\$ 6,030,248	\$ 5,082,389	\$ 17,479,670	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			32577	N/A	N/A	N/A
	b) February 2023				29816	N/A		
	c) March 2023				37089	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	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) <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	870	919	657	815	N/A	Y (see Note 1)	Pipeline Contractor has worker transport strategies, using shuttles to transport workforce from staging areas. There are multiple staging areas to support efforts to transport workers to worksites daily, while some positions require a vehicle to complete their work between multiple sites.
	End-month count	589	762	29	460	N/A		
	Average	730	841	343	638	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	679	681	650	670	N/A	N	N/A
	End-month count	595	705	37	446	N/A		
	Average	637	693	344	558	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	12	11	3	26	100%	N	N/A
	i. urgent	1	3	1	5	19%		
	ii. non-urgent	11	8	2	21	81%		
	iii. occupational	5	5	3	13	50%		
	iv. non-occupational	7	6	0	13	50%		
	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:</i> Number, when calculated as a percentage of average number of workers per month rises from the previous reporting cycle.							
	Total	157	130	102	389	100%	N	N/A
	a) occupational	53	40	44	137	35%		
	b) non-occupational	104	90	58	252	65%		
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) 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-Economic Impact Themes During the Quarter		N/A
	Oct-22	Total: 18 % Indigenous: 0 % Non-Indigenous: 100	Worker conduct - Project-worker on Hartley yelled at individual leaving work for the night; and inappropriate language from a traffic controller in Langley	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. In this instance, 'no parking' signs will be installed in the area and the behaviour of the worker will be addressed.	N/A
	Nov-22	Total: 20 % Indigenous: 0 % Non-Indigenous: 100			
	Dec-22	Total: 19 % Indigenous: 0 % Non-Indigenous: 100	Sensory disturbance - Project-related noise and dust in Fraser Heights and overnight noise from United Blvd.; vibration causing alleged structural damage to home in Wembly Estates; noise coming from a security speaker on Broadway; and pile driving noise at night in North Vancouver; noise from Project-related truck traffic and construction on Underhill and Hartley; overnight noise in Coquitlam from Fraser River HDD; noise from generator near Broadway; night noise and vibration near Hastings St; power pole near Westridge is causing visual disturbance to local resident; light shining in window of resident on Bayview Dr.; vibration allegedly causing damage to house foundation; loud music from workers in Meadowood area; noise in Surrey; noise from Burnaby Mountain at night; noise due to construction at Redwoods Golf Course; and noise from engine retarder brakes in Langley	Trans Mountain will follow up on dust, light, noise 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, the speaker is being adjusted and no pile driving activities take place outside of daylight hours.	

			Traffic – Project-related workers parking in residential areas in Fraser Heights, Wembley Estates, Langley and near WMT; traffic control issues in Surrey; traffic cones slowing down traffic on Government St.; lack of signage on United Blvd.; Project-related vehicles turning around on Halston Ct.; poor sight lines on 98A Ave. due to construction activities; road closures allegedly causing business disturbance on Hartley Ave. in Coquitlam and Government St. in Burnaby; bike accident allegedly as a result of poorly maintained bypass for pedestrians and cyclists; traffic restrictions due to construction in vicinity of Burnaby Terminal; and complaint about the timing of the traffic light at Broadway and Underhill.	Trans Mountain will continue to follow up on any traffic-related. 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, road closures are being evaluated in order to review measures that can be taken to make improvements. Traffic inspectors will be monitoring the areas of the road closures on a daily basis to ensure roadways are safe.	
			Access Limitations - complaints about the closure of Shellmont Street in Burnaby; closure of bike lane on Broadway; closure of bike path through Colony Farm to Maquabeak Park; complaint about the Brunette/Burnaby Mountain Trail closure; and Project-related crews blocking businesses on United Blvd. and Hartley.	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, Shellmont will be closed until early spring 2023. Further advised our contractor has made every attempt to shorten the timeframe of the street closure, however due to the recent weather paving has been delayed.	
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.				
	None				
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 Project 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 Aboriginal 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.
- For the threshold analysis for Indicator 1, the estimate of non-local/regional workers estimated in the WAS finished in May 2020. Therefore, as of June 2020 the threshold analysis for Indicator 1 is N/A.
- 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 (638) is approximately 33% of the average workers on site per day (1935).