

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

January to March 2018 (Issue 2)



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 National Energy Board (NEB) pursuant to NEB Condition 13 (see link below to download). 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 \(NEB Condition 13\)](#)

(the above links to the NEB website where the SEEMP is filed)

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Project-Specific Indicators

Quantitative Indicators

SEEMP Indicator No.	Indicator	Monthly Total			Quarterly Count	Threshold Triggered? (Y/N)	If Threshold Triggered, Action Taken
		Jan-18	Feb-18	Mar-18			
N/A	Total calendar days of construction work during the reporting cycle	24	24	29	77		N/A
	Workers on site per day (average)	106	106	120	111		
1	Number of worker-days in field (categorized in two ways: by geographic origin, and also by Aboriginal v. non-Aboriginal status) <i>Threshold for Action: Number of non-local/regional workers by region/spread is +/- 20% different than estimated in Worker Accommodation Strategy NEB Condition 59</i>						
	Total Worker-days	2554	2539	3474	8567	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	1991	1789	2522	6302		
	b) Worker-days, Other (workers not Local or Regional residents)	564	750	953	2267		
	c) Aboriginal	377	414	437	1228		
	d) Non-Aboriginal	2178	2126	3037	7341		
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	2554	2539	3474	8567	N	N/A
	a) Worker-days, Local or Regional resident, residing at home	1991	1789	2515	6295		
	b) Worker-days, not Local or Regional, not staying in TMEP camps (i.e., staying in local rental, hotel)	564	750	959	2273		
	c) Worker days, not Local or Regional resident, staying in TMEP camps	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	612	1176	1331	3119	N	N/A
	b) Total value (\$)	\$ 74,916	\$ 144,364	\$ 165,802	\$ 385,082		
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 Aboriginal groups in community readiness.</i>						
	a) April 2018	N/A			3633	N/A	N/A
	b) May 2018				To be determined		
	c) June 2018				To be determined		

SEEMP Indicator No.	Indicator	Monthly Total			Quarterly Count	Threshold Triggered? (Y/N)	If Threshold Triggered, Action Taken
		Jan-18	Feb-18	Mar-18			
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
	a) Number involving injuries	0	0	0	0		
	b) Number involving fatalities	0	0	0	0		
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	n/a	91	75	83	Y (see Note 1)	Trans Mountain has followed up with the Contractor, who has confirmed that craft workers are currently being shuttled to and from the Westridge site via water taxi or bus service. There are also no personal vehicles permitted at Westridge Marine Terminal (WMT).
	End-month count	n/a	100	44	72		
	Average	n/a	96	59	78		
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	n/a	60	71	66	N	N/A
	End-month count	n/a	59	41	50		
	Average	n/a	60	56	58		
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	0	0	1	1	N	N/A
	i. urgent	0	0	1	1		
	ii. non-urgent	0	0	0	0		
	iii. occupational	0	0	1	1		
	iv. non-occupational	0	0	0	0		
	b) Total number of times a worker required ambulance or other emergency transport	0	0	0	0		
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	0	0	1	1	Y	This was a single medical incident; however the threshold was triggered as it reflects an increase from zero. Trans Mountain has followed up with the Contractor, confirming that on-site medical services do not need to be adapted.
	a) occupational	0	0	1	1		
	b) non-occupational	0	0	0	0		
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

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	N/A	N/A
	Jan-18	Total: 2	- Sensory disturbance (noise and vibration from WMT) - Community way of life (security presence)		
		% Aboriginal: 0			
		% Non Aboriginal: 100			
	Feb-18	Total: 1			
		% Aboriginal: 0			
		% Non Aboriginal: 100			
	Mar-18	Total: 4			
		% Aboriginal: 0			
		% Non Aboriginal: 100			
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		
	Sensory Disturbance	Noise and vibration from construction activity at WMT (raised by five individuals)	Trans Mountain will follow up on noise or vibration complaints related to construction activity at WMT. Trans Mountain will work with stakeholders to resolve and address such complaints where practical. Noise levels at the Westridge Marine Terminal construction site are monitored regularly and have remained within regulatory limits. Trans Mountain is following approved pile installation methods as outlined in the WMT Environmental Protection Plan. The construction methods are aimed to reduce the intensity of noise and vibration emitted.	N	N/A
	Traffic	Traffic lighting at night (raised by one individual)	Trans Mountain understands there is increased traffic around the WMT during construction and lighting from vehicles or other activities may be perceptible for nearby residents at times. Construction activities mainly take place between 7 a.m. and 8 p.m. Monday to Friday and from 9 a.m. to 8 p.m. on Saturday to limit night-time disruption, and no work is planned on Sundays or statutory holidays.	N	N/A
13	Qualitative feedback themes about effects on the quality and abundance of traditional harvesting resources, or ability of Aboriginal people to harvest resources, within the Project footprint Threshold for Action: Qualitative from Aboriginal group leader/administrator regarding reports of adverse effects on quality and abundance of traditional harvesting resources, or ability of Aboriginal 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 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 December 31, 2017 to March 31 2018.
- 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) NEB 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.
- For the threshold analysis of Indicator 8, the average number of personal vehicles in staging areas per day (58) is less than 0.1% of the known AADT value (87,600). Vehicle counts were not recorded during January 2018.
- Indicator 11 tallies feedback line calls/queries related to socio-economic impact topics in areas of current construction and related to 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 NEB Conditions (NEB Condition 107 - Aboriginal, Local and Regional Employment and Business Opportunity Monitoring Reports; and NEB Condition 58 - Training and Education Monitoring Reports).
- Totals may not add up due to rounding.

Notes

1. For the threshold analysis for Indicator 7, the average workers transported from staging areas per day (78) is approximately 70% of the average workers on site per day (111).