DRAFT Evergreen Project Risk Register

*	March 03, 2016 Risk Register Ref #	Risk Name	Risk Description	Possible Effect	Quantifiable?	Likelihood	Probability Value	Estimated Cost Variance (\$)	Expected Value of Cost (\$)	Estimated Schedule Variance (weeks)	Expected Value of Schedule (weeks)	Impact	Inherent Risk Level /Overall Ranking	Allocation	Probability x Impact (Hidden)	Risk Response Strategy	Description of Risk Response Plan	Risk Owner	Responsible Party	Risk Response Plan Completion Date
Project Management																		title		
PM1	NEW	Extended Project Management	Issue management and/or schedule delay results in a longer project management timeframe	cost increase, for purposes of risk assume a six month delay		Possible	0.5	s.17				Significant	MED	RETAIN		Mitigate	Revise project management budget as required.	D.Chang	BCMoT	Project Completion
Procurer	nent																	title		
Advance	Works																	title		

#	March 03, 2016 Risk Register Ref #	Risk Name	Risk Description	Possible Effect	Quantifiable?	Likelihood	Probability Value	Estimated Cost Expected Value of Cost (\$)	Estimated Schedule Variance (weeks)	Expected Value of Schedule (weeks)	Impact	Inherent Risk Level /Overall Ranking		Probability x Impact (Hidden)	Risk Response Strategy	Description of Risk Response Plan	Risk Owner	Responsible Party	Risk Response Plan Completion Date
Systems	, Integrat	ion and Vehicles		Up-dates to be				s.17											Testing
SV2	SI19	Adjustments to VOBC	VOBC needs automatic speed control updates to run on the main line	provided		Possible	0.5	0.17			Insignificant	LOW	RETAIN		Mitigate	Monitor train performance during testing.	A.Sullivan	BCMoT	Complete
SV4	NEW	s.13,s.17	'	_		Unlikely	0.2				Minor	LOW	RETAIN		Mitigate	s.13,s.17	A.Sullivan	BCMoT	Testing Commencemen t
SCV 10	NEW			_		Possible	0.5				Significant	MED				-	A.Sullivan		
SCV 10 B	DETAIL TO SCV 10					Rare	0.1				Insignificant	row					A.Sullivan		
SCV 10 C	DETAIL TO SCV 10					Rare	0.1				Insignificant	LOW					A.Sullivan		
SV13	NEW					Unlikely	0.2				Insignificant	LOW					A.Sullivan		
SV 14	NEW	New safety requirements	New requirements arising from the fire, and life safety committee meeting discussions	Additional costs		Rare	0.1				Insignificant	LOW				Budget to be increase to cover the costs of the tunnel safety equipment. This is a risk of additional equipment	R. Louie		
SV 16	NEW	Radio Tower	Possibility of additional work due to the location of a radio tower as site not secured	Additional costs		Possible	0.5				Insignificant	LOW				To be investigated further	A.Sullivan		
SV 17	NEW	Unforeseen Changes due to up-dated safety requirements	Translink safety and systems integration engineer may require further changes	Additional costs		Possible	0.5				Insignificant	LOW				Discussions with TransLink	A.Sullivan		
Third Pa	rties																title		
TP1	T7	Third Party, other than Municipalities	Individuals or groups attempt apply pressure on project for changes, usually related to temporary or permanent noise control, finishes etc	Additional direct contract work to mitigate issue	TBD	Possible	0.5			0	Minor	MED	RETAIN		Mitigate	Noise restrictions articulated in Table of Commitments. Prescribe hours of work. Included implementation of sound reduction tactics (e.g. noise walls) in estimate. Segment Managers and Community Relations personnel response to third party concerns in timely manner.	Segment Managers	BCMoT	Construction Complete
TP2	ST12	s.13,s.16,s.1	7		TBD	Unlikely	0.2		0	0	Insignificant	LOW	RETAIN		Mitigate	Apply budget contingencies and resolve through regular meetings with municipalities and Translink (including	Segment Managers /	BCMoT	Construction Complete
TP3	ST16	-				Rare	0.1		0	0	Minor	Rare	RETAIN		Mitigate	WCE). Work with Primary Contractor to define cost of Lincoln Station.	R.Louie T.Steadman	BCMoT	Construction Complete
TP4	ST17					Almost Certain	1		0	0	Insignificant	Almost Certain	RETAIN		Mitigate	Negotiations with Municipalities.	Segment Managers	BCMoT	Construction Complete
TP7	NEW	s.13,s.17				Possible	0.5				Minor	MED	RETAIN		Accept		A.Sullivan	BCMoT	Project Complete
TP9	E14a, b, c	s.13,s.16,s.1	7			Possible	0.5		0	0	Insignificant	MED	RETAIN		Mitigate / Transfer	Some risk retained for additional accommodation.	G.Stewart / G.Freer	BCMoT and Contractor	Project Complete
TP11	NEW					Almost Certain	1				Insignificant	LOW	RETAIN		Accept		D.Chang	BCMoT	Project Complete
TP12	PY14	Increase in impact to businesses as a result of Contractor activities	Reduction in access to existing businesses and possible changes to relocation strategy due to construction activity	Improvements to business access	TBD	Unlikely	0.2		0	0	Insignificant	row	RETAIN		Mitigate	Conduct business impact analysis. May need to assist in business relocation. Implement Community Relations program. Involve BCSA during process of development. Obtain	D.Chang / Segment Managers	BCMoT	Construction Complete
TP15	AP8b	s.13,s.16,s.1			TBD	Possible	0.5		0	0	Insignificant	LOW	SHARE		Mitigate	early sign-off. Early communication with BCSA, Translink, and BCRTC. Currently meeting with BCSA. Meet with BCSA to review final design solution.	A.Sullivan	BCMoT	pre-Operational sign-off
TP 20	NEW	s.13,s.16,s.1	7			Unlikely	0.2				Insignificant	LOW				-			
TP 22	NEW	s.13,s.17		1		Almost Certain	1				Minor	MED							
TP 24	NEW	Consequential costs of traffic incidents	Legal fees and consequential costs due to traffic incidents not covered by insurance	Additional project costs		Unlikely	0.2				Insignificant	LOW							
TP 25	NEW	s.13,s.17		-		Unlikely	0.2				Minor	LOW				s.13,s.17	A.Sullivan		
TP 26	NEW					Unlikely	0.2				Insignificant	LOW				_	A.Sullivan		
TP 28	NEW					Almost Certain	1				Insignificant	LOW				_	A.Sullivan		
Contrac	Administ	ration															title		
		Misc. claims of	Risk of small claims with marginal entitlement resulting in a form of payment in													Excellent contract administration and excellent project	Project Director / Contract		Project
CA2	T30	marginal entitlement.				Almost Certain	1		0	0	Significant	#N/A	RETAIN		Mitigate	management.	Administrator / Legal	BCMoT	Completion

DRAFT

								-	vergreen rroject nise	· · · · · · · · · · · · · · · · · · ·										
#	March 03, 2016 Risk Register Ref #	Risk Name	Risk Description	Possible Effect	Quantifiable?	Likelihood	Probability Value	Estimated Cost Variance (\$)	Expected Value of Cost (\$)	Estimated Schedule Variance (weeks)	Expected Value of Schedule (weeks)		Inherent Risk Level /Overall Ranking		Probability x Impact (Hidden)	Risk Response Strategy	Description of Risk Response Plan	Risk Owner	Responsible Party	Risk Response Plan Completion Date
CA3	GU3a	Post construction settlement Residual Risk (linked to GE3)	Post Warranty residual risk: Differential settlement post construction due to poor soils and inadequate design and/or construction.	Attempt to instruct contractor to repair the situation, if unable the cost of carrying out the repair		Almost Certain	1	s.17				Insignificant	LOW	RETAIN		Mitigate	Monitor post-construction settlement.	J.Eastman	BCMoT	Post- Construction Completion
CA6	SI7	Integration Risk - New Infrastructure	Components of the Project do not integrate well and System does not perform optimally	Additional costs, if found not be the fault of the contractor	TBD	Rare	0.1	_		0	0	Insignificant	LOW	SHARE		Mitigate/ Transfer	Ensure that design meets requirements during design review.	A.Sullivan	BCMoT and Contractor	Project Complete
CA8	E2	Undisclosed Contaminates	The additional cost of removing contaminates that are not identified in the direct works contract	Additional costs that may exceed the budget for this item	TBD	Possible	0.5			0	0	Insignificant	LOW	RETAIN		Mitigate	Monitor and minimize cost impacts.	T.Steadman	BCMoT	Construction Complete
CA14	NEW	Contractor Changes Schedule	Approvals and funding payments are timed and based on the original schedule, the changes could create a delay in approvals or loss or delay of funding			Rare	0.1					Insignificant	LOW	RETAIN		Mitigate	Monitor Contractor schedule and performance against it.	A.Farrell	BCMoT	Project Completion
CA 17	NEW	Stop work order is successfully challenged	Project issues a stop work order, which is successfully challenged leading to a delay claim	Schedule delays and increased costs.		Rare	0.1					Insignificant	LOW				Limit authority for issuance of stop work orders	J.Eastman	BCMoT	Construction Complete
CA 19	NEW	Factual Errors	Proven factual errors in geotechnical data logs.	Schedule delays and increased costs.		Rare	0.1					Insignificant	LOW				Claim advanced owner analysis does not support factual error			
Concurre	nt Works										1							title		
CW1	T15		Tender prices above budget	Increased costs	TBD	Unlikely	0.2			0	0	Insignificant	LOW	RETAIN		Mitigate	On-site monitoring during construction. Considerably more contaminated soil found than previously anticipated or ground condition tests have shown. Further discussion required.	Jody Deane	всмот	Construction Complete
CW2	NEW	Scope Increases	The scope of the work increases as requirements become clearer			Possible	0.5	Ī				Minor	MED	RETAIN		Mitigate	Negotiations with Municipalities, Developers, etc.	Jody Deane	BCMoT	Construction
CW 3	NEW	Land is not available for parking	s.13,s.17	Increased costs		Possible	0.5	_				Insignificant	LOW	RETAIN		Mitigate	s.13,s.17	F.Menu	BCMoT	Complete Construction Complete
CW4	NEW	Delay on Concurrent Works, impacting opening	Need to accelerate concurrent works to meet opening	Increased costs		Unlikely	0.2					Insignificant	LOW	RETAIN						
CW 5	NEW	Additional Tree Planting	Project may be liable for additional tree planting of 100 trees	Increased costs		Possible	0.5	<u> </u> :				Insignificant	LOW	RETAIN						
Funding	Partners																	title	ı	
FP1	NEW	Change to Government IDC	Treasury Board / Ministry of Finance decides to increase IDC percentage and recover from project.	Cost		Rare	0.1					Insignificant	LOW							
FP2	NEW	s.13,s.17				Rare	0.1					Minor	LOW							
FP3	NEW					Possible	0.5					Minor	MED							
Commun	ication																	title		
C1	NEW	Increased public communication	Issue management results in increased costs.	additional costs		Possible	0.5					Insignificant	LOW	RETAIN		Mitigate	Attention to Seaview and Clarke road residents and North Road, and Burquitlam Mall businesses. Develop local community relations plans.	A.Wright	BCMoT	Project Completion
C2	C2	Protestor Delay	Protestor delay. (e.g. Tunnel portal, West Port Moody Station, Environmental groups). Schedule delays.	Schedule delays	TBD	Rare	0.1			4	0.4	Insignificant	LOW	SHARE		Mitigate	Community relations, outreach, communications program.	A.Wright	всмот	Project Completion
C3	NEW	Increased community relations due to contractor's operations	Contractor's construction methods creates issues with stakeholder's and the general public, require additional community relations to rectify the issue	additional costs		Likely	0.75					Insignificant	LOW							
Schedule	1	1	1					L						_		_		title		

,	. 20	larch 03, 016 Risk gister Ref #	Risk Name	Risk Description	Possible Effect	Quantifiable?	Likelihood	Probability Value	Estimated Cost Variance (\$)	Expected Value of Cost (\$)	Estimated Schedule Variance (weeks)	Expected Value of Schedule (weeks)	Impact	Inherent Risk Level /Overall Ranking	Allocation	Probability x Impact (Hidden)	Risk Response Strategy	Description of Risk Response Plan	Risk Owner	Responsible Party	Risk Response Plan Completion Date
Prop	perty																		title		
P	P2	S. PY18	.13,s.17			TBD	Almost Certain	1	s.17		0	0	Minor	MED	RETAIN		Mitigate	s.13,s.17	D.Chang / Legal	BCMoT	Construction Complete
P	P4	NEW					Almost Certain	1					Significant	HIGH							
P	P6	NEW					Likely	0.75					Minor	MED							
Р	P7	NEW Cos	Iditional Property ists associated with tended contract riod	Additional property rental costs due to EGRT contract not being completed on schedule	Additional costs, which may be off-set by counter claims		Rare	0.1			0	0	Insignificant	LOW	RETAIN		Mitigate				