MANITOBA-MINNESOTA TRANSMISSION PROJECT ERRATA LIST March 17, 2017

ID#	EIS Chapter Name	EIS Chapter Number	Section or Page #	What EIS Currently Says (ERROR)	What EIS Should Say (CORRECTION)
1	Transmission Line Routing	5	Maps 5-5, 5-6, 5-7, 5-8 and 5-10	Only black areas on maps 5-5, 5-6, 5-7, 5-8 and 5-10 are noted as areas of least preference.	As explained at the Transmission Routing Workshop, both black and white areas on maps 5-5, 5-6, 5-7, 5-8 and 5-10 are areas of least preference.
2	Transmission Line Routing	5	Table 5-11	Weighted Natural Environment and total Scores for Routes TD, UC and UM are incorrect.	Weighted Environment (Natural) scores for TC, UC & UM should be 0.225, 0.113 & 0.075 respectively. The Total score for TC, UC & UM should be 1.2, 1.70 & 2.17 respectively. This was a typographical error. The resulting differences are negligible and do not alter the rankings. See attached updated Table 5-11.
3	Transmission Line Routing	5	Table 5-13	Title of Table 5-13 reads "Preference Determination, SLTC to Gardenton (showing relative scores, weighted scores and total sum; lower values are preferred for routing)"	Title of Table 5-13 should read "Routes Selected for Preference Determination, SLTC to Piney East"
4	Transmission Line Routing	5	Table 5-20	Under Risk to Schedule reads "Route EEL will require more private land acquisition than EEL and TC due"	Under Risk to Schedule should read "Route EEL will require more private land acquisition than DKT and TC due"
5	Transmission Line Routing	5	Table 5-21	The weighted scores for Environment (Natural) are incorrect.	The weighted scores for Environment (Natural) should be 0.075, 0.112, 0.112 & 0.225. This was a typographical error. The correct values were used in the calculations and, as such, the Total and Rank are still accurate. See attached updated Table 5-21.
6	Transmission Line Routing	5	Table 5-29	SIL construction costs in Table 5-29 included structure payments whereas structure payment costs were not included in the other four routes.	See attached updated Table 5-29 with the adjusted construction costs (all routes have structure costs included). The resulting difference is negligible and does not alter the rankings.
7	Transmission Line Routing	5	Table 5-28	Title of Table 5-28 reads "Border Crossing Preference Determination Scores and Rationale"	Title of Table 5-28 should read "Preference Determination Scores and Rationale"
8	Transmission Line Routing	5	Table 5-34	Under Community reads "BWZ However does mitigate concerns with the regarding the land of a private property owner that is of importance to members of the Roseau River Anishinabe First Nation"	Under Community should read "BWZ However does NOT mitigate concerns with the regarding the land of a private property owner that is of importance to members of the Roseau River Anishinabe First Nation" This was a typographical error. See attached updated Table 5-34.
9	Transmission Line Routing	5	Table 5-34	Under Community reads "Route BOB accommodates the concerns regarding the land of a private property owner that is of importance to members of the Roseau River Anishinabe First Nation."	This statement should be deleted as BOB does not accommodate the concerns. See attached updated Table 5-34.
10	Transmission Line Routing	5	Table 5A-9	Typographical error in table formatting in EIS: "Diagonal Crossings of Crop Land" is repeated under Criteria.	The first occurrence of "Diagonal Crossing of Crop Land" should be deleted, "Agricultural Crop Land" inserted above and the table shifted. See attached updated Table 5A-9.

Table 5-11 Preference Determination, SLTC to Gardenton

(showing relative scores, weighted scores and total sum; lower values are preferred for routing)

Cuitouio	Mainht	Routes				
Criteria	Weight	SU	SY	TC	UC	UM
Cost ¹	40%	1.25	1.02	1	1.6	1.53
Weighted		0.5	0.41	0.40	0.64	0.61
System Reliability	10%	1	1	1	1	2
Weighted		0.1	0.1	0.1	0.1	0.2
Risk to Schedule	5%	1	1	2	2	3
Weighted		0.05	0.05	0.1	0.1	0.15
Environment (Natural)	7.5%	1.5	2	3	1.5	1
Weighted		0.113	0.15	0.225	0.113	0.075
Environment (Built)	7.5%	2.5	2	1	2	3
Weighted		0.19	0.15	0.075	0.15	0.23
Community	30%	1.5	1.75	1	2	3
Weighted		0.45	0.53	0.3	0.6	0.9
TOTAL		1.40	1.39	1.20	1.70	2.17
RANK		3	2	1	4	5

NOTE:

¹ A scaling factor was used to determine the relative score for each route.

Table 5-21 Preference Determination for the Four Top Routes

(showing relative scores, weighted scores and total sum; lower values are preferred for routing)

	Routes				
Weight	тс	EEL	AQS	DKT	
40%	1	2.2	1.4	1.5	
	0.40	0.88	0.56	0.60	
10%	1	1	1	2.5	
	0.1	0.1	0.1	0.25	
5%	1	2	1.5	3	
	0.05	0.1	0.075	0.15	
7.5%	1	1.5	1.5	3	
	0.075	0.112	0.112	0.225	
7.5%	2.75	3	2.5	1	
	0.21	0.23	0.19	0.075	
30%	1	2	1	1	
	0.3	0.6	0.3	0.3	
100%	1.13	2.02	1.34	1.60	
	1	4	2	3	
	10% 5% 7.5% 7.5%	TC 40% 1 0.40 10% 1 0.1 5% 1 0.05 7.5% 1 0.075 7.5% 2.75 0.21 30% 1 0.3 100% 1.13	Weight TC EEL 40% 1 2.2 0.40 0.88 10% 1 1 0.1 0.1 0.1 5% 1 2 0.05 0.1 0.1 7.5% 1 1.5 0.075 0.112 0.21 7.5% 2.75 3 0.21 0.23 30% 1 2 0.3 0.6 100% 1.13 2.02	Weight TC EEL AQS 40% 1 2.2 1.4 0.40 0.88 0.56 10% 1 1 1 0.1 0.1 0.1 0.1 5% 1 2 1.5 0.05 0.1 0.075 0.15 7.5% 1 1.5 1.5 0.075 0.112 0.112 0.112 7.5% 2.75 3 2.5 0.21 0.23 0.19 30% 1 2 1 0.3 0.6 0.3 100% 1.13 2.02 1.34	

NOTE:

¹ A scaling factor was used to determine the relative score for each route.

Table 5-29 Round 2 Preference Determination for the Preferred Route for MMTP

(showing relative scores, weighted scores and total sum; lower values are preferred for routing)

		Routes				
Criteria	Weight	URV	SIL	AY	URQ	SGZ
Cost ¹	40%	1.02	1.04	1.06	1.04	1
Weighted		0.41	0.42	0.42	0.42	0.40
System Reliability	10%	1	1.5	1.5	1	1
Weighted		0.1	0.15	0.15	0.1	0.1
Risk to Schedule	5%	1	1	2	1	2
Weighted		0.05	0.05	0.1	0.05	0.1
Environment (natural)	7.50%	1.2	2.2	3	1	2.7
Weighted		0.09	0.17	0.23	0.075	0.20
Environment (built)	7.50%	3	2.7	1	3	2
Weighted		0.23	0.20	0.075	0.23	0.15
Community	30%	2	1	2	3	3
Weighted		0.6	0.3	0.6	0.9	0.9
TOTAL		1.47	1.28	1.57	1.77	1.85
RANK		2	1	3	4	5
NOTE:						

¹ A scaling factor was used for cost.

Table 5-34 Preferred Route Preference Determination Scores and Rationale

Criteria	Route	Scores	Rationale			
Cost	BMX	1	A scaling factor was used to calculate the scores based on			
	BWZ	1.02	 estimates for the total Project costs. BWX and BXP ha slightly higher cost driven primarily by the longer length 			
	BXP	1.02	these route alternatives.			
	BMY	1	-			
	ВОВ	1	-			
System	BMX	1	The eastern routes (BWZ and BXP) are slightly longer (e.			
Reliability	BWZ	1.5	line length increases the risk) and closer to M602F.			
	BXP	1.5				
	BMY	1				
	ВОВ	1	-			
Risk to	BMX	1.5	The eastern routes (BWZ and BXP) have a higher			
Schedule	BWZ	2.5	prevalence of Crown land. The eastern routes (BWZ and BXP) traverse more wetlands (seasonal construction			
	BXP	3	issues). The Maple Leaf Foods livestock operation has			
	BMY	1	requested winter construction if the route remained in proximity to their facility, which could result in a scheduling,			
	ВОВ	1.5	and construction delay (BXP).			
			Route BMY ranks highest from a community perspective because it addresses many concerns heard from the RM of La Broquerie, Maple Leaf Foods, Sundown Cemetery, Hylife, the recreational area, and First Nations.			
Environment	BMX	1.5	Route BMY is preferred because it avoids a large amoun			
(natural)	BWZ	2.8	forest and introduces less habitat fragmentation, avoids critical habitat for a number of species and endangered			
	BXP	3	species. Route BMY also allows for mitigation of potential			
	BMY	1	 effect on the culturally important area. Route BOB is slightly less preferred than route BMY as it 			
	ВОВ	1.2	crosses a culturally sensitive area.			
			Route BXP is least preferred because it fragments forested areas and critical habitat			
Environment (natural) (continued)			Route BWZ is slightly preferred to BXP because it provides a larger buffer between the route and the Watson P. Davidson WMA and avoids some wetlands.			
			Route BMX goes over the southern edge of Lonesand Lake, therefore is slightly less preferred than Route BOB.			
Environment	BMX	2.9	Route BWZ is the preferred route as it avoids the town of La			
(built)	BWZ	1	Broquerie, proposed residential developments and privately owned agricultural lands. Route BXP ranks slightly lower			
	BXP	1.1	than Route BWZ because it avoids the Maple Leaf Foods			
	BMY	3	operations. Route BOB is a little closer to the cemetery therefore it			
	вов	3	scores the lowest. Route BMY scores the same as BOB there is little difference between these routes from a built			

Criteria	Route	Scores	Rationale
			perspective.
Community	BMX	2.5	The highest rank was given to the route(s) that best
	BWZ	2	balances the overall concerns.
	BXP	2.5	 Route BWZ ranks highest from the PEP perspective because it avoids the private recreational area, the Maple
	BMY	1	Leaf Foods operation and uses the easternmost segment, mitigating the concerns related to residential development in
	BOB	2	and around the Town of La Broquerie.
		mitigable wi	The Hylife concerns relating to their calving grounds are mitigable with the use of self-supporting towers with protected bases.
			BWZ However does not mitigate concerns regarding the land of a private property owner that is of importance to members of the Roseau River Anishinabe First Nation
			Route BWZ ranks lowest from the FNMEP perspective:
			It will cause more Crown land fragmentation and affect historical and contemporary use.
			It creates Archeology concerns (effect on areas identified as potential to contain heritage resources) and greater access to sensitive areas farther east.
			Route BMY ranks highest from the FNMEP perspective.
			Route BMY does not address the Town of La Broquerie concerns but accommodates concerns heard from private landowners and livestock operators located within the RM of La Broquerie and the RM of Stuartburn (Hylife, Maple Leaf, recreational lands, Sundown Cemetery and the land of a private property owner that is of importance to members of the Roseau River Anishinabe First Nation.

Table 5A-9 Alternate Route Evaluation Model

Criteria	Weight
Built	
Relocated Residences – Within ROW	35.3%
Potential Relocated Residences (100 m) – Edge of ROW	19.1%
Proximity to Residences (100-400 m) – Edge of ROW	6.4%
Proposed Developments – Within ROW	1.1%
Agricultural Crop Land	2.6%
Irrigated Land (Acres) – ROW	6.5%
Shelter Belts (Acres) – ROW	2.5%
Diagonal Crossings of Agriculture Crop Land (km)	6.7%
Proximity to Buildings and Structures (100 m) – EOROW	1.3%
Public Use Areas (250m) – EOROW	1.1%
Historic/Cultural Resources (250 m) – Edge of ROW	10.1%
Potential Commercial Forest (Acres) – ROW	7.3%
Natural	
Natural Forests (Acres) – ROW	4.4%
Stream/River Crossings – Centerline	1.7%
Wetland Areas (Acres) - ROW	11.2%
High Quality Wildlife Habitat (Acres) – ROW	15.6%
Floodplain/Riparian Areas (Acres) - ROW	8.0%
Special Areas (e.g., ASI, Proposed Protected Areas)	27.5%
Native Grassland Areas (Acres) – ROW	31.7%
Engineering	
% Parallel Existing T/L	8.2%
% Parallel Roads	8.2%
% Rebuild Existing T/L (e.g., Reconductor, Double Circuit)	24.6%
Length in Separation Buffer (Km)	37.1%
Existing Transmission Line Crossings (#)	3.8%
Accessibility	15.2%
Total Project Costs	2.9%