





















Year Capacity Reached

11

Year Capacity Reached					
US Road Access	US Border Processing	Bridge / Tunnel	CAN Border Processing	CAN Road Access	
> 30 years	5 to 10 years	10 to 15 years	5 to 10 years	5 to 10 years	
0 to 5 years	5 to 10 years	> 30 years	5 to 10 years	5 to 10 years	
	US Road Access > 30 years 0 to 5 years	US Road Access US Border Processing > 30 years 5 to 10 years 0 to 5 years 5 to 10 years	US Road Access US Border Processing Bridge / Tunnel > 30 years 5 to 10 years 10 to 15 years 0 to 5 years 5 to 10 years > 30 years	VS Road AccessUS Border ProcessingBridge / TunnelCAN Border Processing> 30 years5 to 10 years10 to 15 years5 to 10 years0 to 5 years5 to 10 years> 30 years5 to 10 years	

- Preliminary for Discussion Purposes Only







		Sensitivity Ana	lysi
			5
	Scenario	Year Capacity Reached	
S	ensitivity Tests		
	High Trade Growth	Advance 3 years	
	Low Trade Growth	Defer 3 years	
	Diversion to Intermodal Rail	Defer 2 years	
	High Diversion to St. Clair River Crossing	Defer 6 years	
	High Passenger Car Demand	Advance 4 years	
	Low Passenger Car Demand	Defer 5 years	
	Extreme Low Scenario	Defer 13 years	
		1	
- Preliminary for Dis	scussion Purposes Only		15



















Detroit River											
Table 1. Natural Heritage Investigation by Study Stage											
Study Stage ¹	Ecological Analysis Level ²	Define Area of Investigation	Task 2 Data Collection	Task 3 Data Analysis	Task 4 Evaluate Alternatives	Conduct Impact Assessment	Recommend Environmental Protection Measures				
Stage 1 – Define Study Area	Ecodistrict - 1:250,000 scale	Preliminary Analysis Area	Secondary source Air photo interpretation	Identify designated/ regulated natural heritage features to determine national, provincial, regional & local significance.	Avoid, where feasible, designated/regulated natural heritage features located within Preliminary Analysis Area.	Opportunities/ Constraints Analysis	Avoidance				
Stage 2 – Illustrative Alternatives	Ecosection - 1:100,000 scale	Opportunity corridors	Secondary source Air photo interpretation Windshield/ aerial surveys	Identify designated/ regulated natural heritage features to determine national, provincial, regional & local significance.	Compare potential loss of designated/regulated natural heritage features located within opportunity corridors (number, extent, significance).	Opportunities/ Constraints Analysis	•Avoidance				
Stage 3 – Practical Alternatives	Ecosite - 1:10,000 scale	Alternative routes	Secondary source Air photo interpretation Preliminary pedestrian surveys over a single season	Identify landscapes, ecosystems/communities & populations/species to determine national, provincial, regional & local significance.	Compare potential loss of terrestrial & aquatic landscapes, eccosystems/communities & populations/species located along atternative routes (extent, type, significance, sensitivity).	Generic Impacts	Avoidance Minimization Generic mitigation				
Stage 4 – Concept Design Alternatives	Ecoelement - 1:1,000 scale	Alternative concept designs rights-of- way & adjacent zones of influence	Secondary source Air photo interpretation Detailed pedestrian surveys over multiple seasons	Identify landscapes, ecosystems/communities & populations/species to determine national, provincial, regional & local significance.	Compare potential loss of terrestrial & aquatic landscapes, ecosystems/communities & populations/species located within rights of way (extent, type, significance, sensitivity). Compare potential disruption to terrestrial & aquatic landscapes, ecosystems/communities & populations/species located within adjacent zones of influence (extent, type, significance, sensitivity).	Conceptual Site- Specific Impacts	Avoidance Minimization Conceptual site- specific mitigation, compensation and monitoring				















