









	Detroit River	Environmental Assessment Key Study Activities			
	STUDY				
	Study Area Features, Opportur	nities & Constraints	April '05	Initial Public Outreach	
	Initial Set of Crossing Alternative & Connecting Routes in Canad	ves, Plaza Locations la and the U.S.	June '05	PIOH1	
	Area of Continued Analysis		December '05	PIOH2	
	Specific Crossing, Plaza and Ac	ccess Road Options	March '06	PIOH3	
	Results of Social, Economic, Er Engineering Assessments	nvironmental and	December '06	PIOH4	
	Preferred Crossing Location, P Connecting Routes in Canada	laza Locations & and the U.S.	Spring '07	PIOH5	
	Finalize Engineering and Mitiga	ation Measures	Summer '07	PIOH6	
	Document Study and Submit fo	or Approvals	End of '07	Public Review	
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	Evaluation Factors			
S T U D Y				
The assessment of Crossing, Plaza and Access Road options will be conducted in accordance with the Environmental and Technical Work Plans and will be based on the following factors and measures:				
Changes to Air Quality				
<ul> <li>Protection of Community and Neighbourhood Characteristic</li> <li>includes assessment of residential and business property including schools, impacts to noise levels, access and compared to the second school of the second s</li></ul>	s impacts, social features nmunity features			
Consistency with Existing & Planned Land Use				
Protection of Cultural Resources     includes parks, historic sites and areas of archaeological significance				
Protection of Natural Environment     includes plant and animal species and habitat features	and the second			
Improvements to Regional Mobility	NUMBERS OF STREET			
Cost and Constructability				
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Detroit River	Changes to Air Quality
STUDY	
Preliminary model results – Acc	cess Roads:
Volatile Organic Compounds (VO	C's) are predicted to remain well below provincial standards
<ul> <li>Total concentrations of NO<sub>x</sub> are p technologies, even though traffic</li> </ul>	redicted to decrease due to improvements in fuels and engine volumes will increase.
<ul> <li>Predicted concentrations of PM<sub>2.6</sub> increases in traffic volumes         <ul> <li>Tailpipe emissions of PM<sub>2.5</sub></li> <li>Greater contribution from road</li> </ul> </li> </ul>	$_{5}$ associated with the alternatives are higher in the future due to are decreasing ad dust
Depressed roadway sections resu compared to at grade alternatives	ult in lower concentrations of $\mathrm{PM}_{2.5}$ and $\mathrm{NO}_{\mathrm{x}}$ in vicinity of ROW s
<ul> <li>Tunnel results in lower concentra alternatives         <ul> <li>NO<sub>x</sub> concentrations increase (greater dispersion from ven</li> </ul> </li> </ul>	tions of PM <sub>2.5</sub> in vicinity of ROW compared to at grade e over a broader area compared to at grade alternatives tilation stacks)
Canada O Foderal Highway	MENT 18 November 2006















Detroit River Next S	Steps
S T U D Y	
Complete remaining field investigations and analysis     Geotechnical investigations	
<ul> <li>Air dispersion and noise modeling</li> </ul>	
<ul> <li>Define tunnel ventilation and support systems requirements for emergency response/fire and life safety</li> </ul>	
<ul> <li>Identify appropriate mitigation measures to reduce impacts</li> </ul>	
<ul> <li>Continue consultation to obtain input on analysis to date, mitigation measures and context sensitive solutions         <ul> <li>Respond to comments from this round of Open Houses</li> <li>Continue community consultation and consultation with property/business owners</li> <li>Coordinate next round of Open Houses with U.S. Draft EIS Public Hearing</li> </ul> </li> </ul>	V W
Continue working with the public, communities, and interested groups of Windsor and Essex County, in consultation with our U.S. partners, to develop the solution that best meets current and future transportation needs, while minimizing community impacts on both sides of the border.	
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Detroit River MTESHATIONAL CROSSING S T U D Y Ambient Air Monitoring					
Preliminary Results - VOCs					
Pollutant	Monitoring Station	Maximum Concentration (ug/m³)	MOE AAQC (ug/m <sup>3</sup> )		
Formaldehyde	OPHL SCC	1.6 2.0	65		
Acetaldehyde	OPHL SCC	1.2 1.2	500		
Acrolein	OPHL SCC	1.2 1.1	24		
Benzene	OPHL SCC	0.7 1.4	NS		
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