Comparative Evaluation of Net Effects and Ranking – Section S5

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors					Summ	ary of Potential N	let Effects and Ra	nking				
1.0 Natural En	vironment											
1.1 Fish and F	ish Habitat											
1.1.1 Fish Habitat	Standard net effects to watercourses as outlined in the accompanying	Standard net effects to watercourses as outlined in the accompanying	Net effects equal to S5-8 Standard net effects to	Net effects equal to S5-7 Standard net effects to	Standard net effects to watercourses as outlined in the accompanying	Standard net effects to watercourses as outlined in the accompanying	Net Effects equal to S5- 12 Standard net	Net Effects equal to S5- 11 Standard net				
	memo at the following:	memo at the following:	watercourses as outlined in the	watercourses as outlined in the	memo at the following:	memo at the following:	effects to watercourses as	effects to watercourses as				
	12 potential water crossings:	15 potential water crossings:	16 potential water crossings:	16 potential water crossings:	9 potential water crossings:	11 potential water crossings:	accompanying memo at the following:	accompanying memo at the following:	8 potential water crossings:	10 potential water crossings: • 4 permanent	accompanying memo at the following:	accompanying memo at the following:
	 opermanent cool/coldwater systems 1 permanent 	 opermanent cool/coldwater systems 1 permanent 	 opermanent cool/coldwater systems 1 permanent 	 opermanent cool/coldwater systems 1 permanent 	 opermanent cool/coldwater systems 1 permanent 	 a permanent cool/coldwater systems 1 permanent 	 a potential water crossings: 5 permanent cool/coldwater 	• 5 permanent cool/coldwater	 opermanent cool/coldwater systems 1 permanent 	 systems 1 permanent crossing of 	13 potentialwater crossings:5 permanent	13 potential water crossings:
	crossing contributing to occupied Redside Dace habitat downstream of alternative	crossing of occupied Redside Dace habitat and 1 permanent crossing contributing to	crossing of occupied Redside Dace habitat and 1 permanent crossing contributing to	systems • 1 permanent crossing of occupied Redside Dace habitat and 1 permanent	systems 1 permanent crossing of occupied Redside Dace habitat and 1 permanent 	crossing of occupied Redside Dace habitat and 1 permanent crossing contributing to	occupied Redside Dace habitat and 1 permanent crossing contributing to occupied	 cool/coldwater systems 1 permanent crossing of occupied Redside Dace habitat and 1 	 5 permanent cool/coldwat er systems 1 permanent crossing of occupied Redside Dace 			
	 5 intermittent or ephemeral watercourses 	6 intermittent or ephemeral watercourses	 7 intermittent or ephemeral watercourses. 	 7 intermittent or ephemeral watercourses. 	occupied Redside Dace habitat • 4 intermittent	occupied Redside Dace habitat • 5 intermittent	crossing contributing to occupied Redside Dace	crossing contributing to occupied Redside Dace	occupied Redside Dace habitat • 3 intermittent	Redside Dace habitat • 4 intermittent or ephemeral	permanent crossing contributing to occupied	habitat and 1 permanent crossing contributing to
	Net effects associated with the alternative are dependent on the ability to	Net effects associated with the alternative are dependent on the ability to	Net effects associated with the alternative are dependent on the ability to	Net effects associated with the alternative are dependent on the ability to	or epnemeral watercourses. Net effects associated with	or epnemeral watercourses. Net effects associated with	habitat • 6 intermittent or ephemeral watercourses	 6 intermittent or ephemeral watercourses 	or epnemeral watercourses Net effects associated with	Watercourses. Net effects associated with the alternative	 Redside Dace habitat 6 intermittent or ephemeral watercourses. 	occupied Redside Dace habitat • 6 intermittent or ephemeral
	implement avoidance, mitigation, offsetting /	implement avoidance, mitigation, offsetting /	implement avoidance, mitigation, offsetting /	implement avoidance, mitigation, offsetting /	the alternative are dependent on the ability to implement	the alternative are dependent on the ability to implement	Net effects associated with the alternative are	Net effects associated with the alternative are dependent on	the alternative are dependent on the ability to implement	are dependent on the ability to implement avoidance	Net effects associated with the alternative	watercourse s
	enhancement measures; until confirmed, net	enhancement measures; until confirmed, net	enhancement measures; until confirmed, net	enhancement measures; until confirmed, net	avoidance, mitigation, offsetting /	avoidance, mitigation, offsetting /	ability to implement avoidance,	the ability to implement avoidance, mitigation	avoidance, mitigation, offsetting /	mitigation, offsetting / enhancement	are dependent on the ability to implement avoidance	associated with the alternative are dependent
	the same as potential effects.	the same as potential effects.	same as potential effects.	same as potential effects.	measures; until confirmed, net effects remain	measures; until confirmed, net effects remain	offsetting / enhancement measures; until	offsetting / enhancement measures; until	measures; until confirmed, net effects remain	confirmed, net effects remain the same as potential	mitigation, offsetting / enhancement	implement avoidance, mitigation,
	 include: Several sections of 	ne same as potential effects. Net effects	ne same as potential effects. Net effects	confirmed, net effects remain the same as potential effects.	confirmed, net effects remain the same as potential effects.	Net effects	Net effects	measures; until confirmed, net effects remain the same as potential	oπsetting / enhancement measures; until confirmed, net			
	watercourses under this	watercourses under this	watercourses under this route	watercourses under this	incluae:				include:	 Unable to avoid the 	effects.	effects remain

Alternative St	5-
11	



Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors					Summ	nary of Potential N	let Effects and Ra	nking				
	route alternative run parallel and	route alternative run parallel and	alternative run parallel and would require	route alternative run parallel and	Unable to avoid the negative	Unable to avoid the negative	Net effects include: • Unable to avoid	Net effects include: • Unable to	Unable to avoid the negative	negative effects of structures on	Net effects include:	the same as potential effects.
	 would require either careful consideration of exact road route to avoid the channels or significant realignments of creek channels. Potential realignment of section of main stem Etobicoke Creek and other channels may be required and would require a natural channel design in the considerations Unable to avoid the negative effects of structures on groundwater patterns Watercourse contributing to Redside Dace 	 would require either careful consideration of exact road route to avoid the channels or significant realignments of creek channels. Potential realignment of section of main stem Etobicoke Creek and other channels may be required and would require a natural channel design in the considerations Unable to avoid the negative effects of structures on groundwater patterns Watercourse contributing to 	 either careful consideration of exact road route to avoid the channels or significant realignments of creek channels. Potential realignment of section of main stem Etobicoke Creek and other channels may be required and would require a natural channel design in the considerations Unable to avoid the negative effects of structures on groundwater patterns Watercourse contributing to Redside Dace habitat downstream 	 would require either careful consideration of exact road route to avoid the channels or significant realignments of creek channels. Potential realignment of section of main stem Etobicoke Creek and other channels may be required and would require a natural channel design in the considerations Unable to avoid the negative effects of structures on groundwater patterns Watercourse contributing to Redside Dace 	effects of structures on groundwater patterns • Loss of riparian function from crossing over permanent and intermittent watercourses • Watercourses contributing to Redside Dace habitat downstream.	effects of structures on groundwater patterns • Loss of riparian function from crossing over permanent and intermittent watercourses • Watercourses contributing to Redside Dace habitat downstream.	 the negative effects of structures on groundwater patterns Loss of riparian function from crossing over permanent and intermittent watercourses Watercourses contributing to Redside Dace habitat downstream. 	 avoid the negative effects of structures on groundwater patterns Loss of riparian function from crossing over permanent and intermittent watercourses Watercourses contributing to Redside Dace habitat downstream. 	effects of structures on groundwater patterns • Watercourses contributing to Redside Dace habitat downstream.	groundwater patterns • Watercourses contributing to Redside Dace habitat downstream.	 Unable to avoid the negative effects of structures on groundwater patterns If unable to avoid crossing the confluence of the permanent and intermittent watercourses in the forested area, significant impacts channel and riparian structure would result Loss of riparian function from crossing over permanent and intermittent watercourses Watercourses contributing to Redside Dace habitat downstream. 	 Net effects include: Unable to avoid the negative effects of structures on groundwater patterns If unable to avoid crossing the confluence of the permanent and intermittent watercourses in the forested area, significant impacts channel and riparian structure would result Loss of riparian function from crossing over permanent and intermittent watercourses Watercourses Watercourses
	habitat downstream HIGH NET	Redside Dace habitat downstream		habitat downstream							HIGH NET	contributing to Redside Dace habitat downstream.
		EFFECT	EFFECT	HIGH NET EFFECT	HIGH NET EFFECT	EFFECT	EFFECT	HIGH NET EFFECT	EFFECT		EFFECT	HIGH NET EFFECT
	RANKING: 9 th	RANKING: 10 th	RANKING: 11 th	RANKING: 11 th	RANKING: 3rd	RANKING: 4 th	RANKING: 5 th	RANKING: 5 th	RANKING: 1 st	RANKING: 2 nd	RANKING: 7 th	RANKING: 7 th
	This alternative includes 1 permanent watercourse contributing to	This alternative includes 1 permanent watercourse contributing to	This alternative includes 1 permanent watercourse contributing to	This alternative includes 1 permanent watercourse contributing to	While there is 1 occupied and 1 contributing SAR habitat crossing and a high	While there is a high incidence of permanent cool/cold water watercourses	While there is 1 occupied and 1 contributing SAR habitat crossing and a high	While there is 1 occupied and 1 contributing SAR habitat crossing and a high	This alternative has the fewest total crossings. While 2 of the crossings are	While there is 1 occupied and 1 contributing SAR habitat crossing, the crossings are	This alternative includes 1 occupied and 1 contributing SAR habitat crossing	This alternative includes 1 occupied and 1 contributing SAR habitat crossing
	occupied SAR habitat and many	occupied SAR habitat and many	occupied SAR habitat and many	occupied SAR habitat and many	incidence of permanent	present (2 more than S5-5) and 2	incidence of permanent	incidence of permanent	permanent watercourses of	either simple (i.e. perpendicular) or	and several permanent	and several permanent

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors					Sumn	nary of Potential N	Net Effects and Ra	nking				
	cool/coldwater watercourses that could require realignments if selected.	cool/coldwater watercourses that could require realignments if selected.	cool/coldwater watercourses that could require realignments if selected.	cool/coldwater watercourses that could require realignments if selected.	cool/cold water watercourses present, the crossings are perpendicular to the creeks and are relatively simple crossings.	permanent watercourses with SAR habitat (1 occupied, 1 contributing), the crossings are perpendicular to the creeks and are relatively simple crossings. Additionally, there is potential for restoration of the valley lands that could benefit both aquatic and terrestrial habitats.	cool/cold water watercourses present (2 more than S5-6), the crossings are perpendicular to the creeks and are relatively simple crossings. Additionally, confirmed groundwater upwelling sites were noted in this alternative. There is potential for restoration of the valley lands that could benefit both aquatic and terrestrial habitats.	cool/cold water watercourses present (2 more than S5-5), the crossings are perpendicular to the creeks and are relatively simple crossings. Additionally, confirmed groundwater upwelling sites were noted in this alternative. There is potential for restoration of the valley lands that could benefit both aquatic and terrestrial habitats.	SAR habitat (1 occupied, 1 recovery), the crossings are either simple (i.e. perpendicular) or mitigatable to minimize negative effects with alignment of the road within the alternative selection.	mitigatable to minimize negative effects with alignment of the road within the alternative selection. Additionally, there is potential for restoration/enhan cement of the creek valley that could enhance both aquatic and terrestrial habitats.	cool/cold water streams that may require realignment if selected. These realignments would also involve the loss of riparian function. Additionally, with observed incidences of groundwater upwellings, these sources are not able to be reproduced and will remain a negative effect.	cool/cold water streams that may require realignment if selected. These realignments would also involve the loss of riparian function. Additionally, with observed incidences of groundwater upwellings, these sources are not able to be reproduced and will remain a negative effect.
1.1.2 Fish Community	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, offsetting / enhancement measures; until confirmed, net effects remain the same as potential effects. Net effects include: • 1 permanent crossing at Campbell's Cross Creek contributing to occupied Redside Dace habitat downstream • Potential	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, offsetting / enhancement measures; until confirmed, net effects remain the same as potential effects. Net effects include: • 1 permanent crossing at Campbell's Cross Creek contributing to occupied Redside Dace habitat downstream • Potential	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, offsetting / enhancement measures; until confirmed, net effects remain the same as potential effects. Net effects include: • 1 permanent crossing at Campbell's Cross Creek contributing to Occupied Redside Dace habitat downstream • Potential	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, offsetting / enhancement measures; until confirmed, net effects remain the same as potential effects. Net effects include: • 1 permanent crossing at Campbell's Cross Creek contributing to Occupied Redside Dace habitat downstream Potential (unconfirmed)	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, offsetting / enhancement measures; until confirmed, net effects remain the same as potential effects. Net effects include: • 2 permanent crossings at Campbell's Cross Creek of Redside Dace habitat (1occupied, 1 contributing) • Long potential channel raciaments	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, offsetting / enhancement measures; until confirmed, net effects remain the same as potential effects. Net effects include: • 2 permanent crossings at Campbell's Cross Creek of Redside Dace habitat (1occupied, 1 contributing) • Long potential channel realignments	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, offsetting / enhancement measures; until confirmed, net effects remain the same as potential effects. Net effects include: • 2 permanent crossings at Campbell's Cross Creek of Redside Dace habitat (1occupied, 1 contributing) • Long potential channel	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, offsetting / enhancement measures; until confirmed, net effects remain the same as potential effects. Net effects include: • 2 permanent crossings at Campbell's Cross Creek of Redside Dace habitat (1occupied, 1 contributing) • Long potential channel	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, offsetting / enhancement measures; until confirmed, net effects remain the same as potential effects. Net effects include: • 2 permanent crossings at Campbell's Cross Creek of Redside Dace habitat (1occupied, 1 contributing) • Long potential channel	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, offsetting / enhancement measures; until confirmed, net effects remain the same as potential effects. Net effects include: • 2 permanent crossings at Campbell's Cross Creek of Redside Dace habitat (1occupied, 1 contributing) • Long potential channel	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, offsetting / enhancement measures; until confirmed, net effects remain the same as potential effects. Net effects include: • 2 permanent crossings at Campbell's Cross Creek of Redside Dace habitat (1occupied, 1 contributing) • Long potential channel	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, offsetting / enhancement measures; until confirmed, net effects remain the same as potential effects. Net effects include: • 2 permanent crossings at Campbell's Cross Creek of Redside Dace habitat (1occupied, 1 contributing) • Long potential channel
	for salmonids	for salmonids	for salmonids in	for salmonids	could affect fish	could affect fish	could affect fish community	could affect fish community	could affect	could affect fish community	could affect fish community	could affect

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
Factors					Summ	ary of Potential N	let Effects and Ra	nking				
	in Etobicoke Creek • Long potential channel realignments could affect fish community including migratory salmonids and Redside Dace downstream	in Etobicoke Creek • Long potential channel realignments could affect fish community including migratory salmonids and Redside Dace downstream	Etobicoke Creek • Long potential channel realignments could affect fish community including migratory salmonids and Redside Dace downstream	in Etobicoke Creek • Long potential channel realignments could affect fish community including migratory salmonids and Redside Dace downstream	community including Redside Dace downstream	community including Redside Dace downstream	including Redside Dace downstream	including Redside Dace downstream	community including Redside Dace downstream	including Redside Dace downstream	including Redside Dace downstream	community including Redside Dace downstream
	HIGH NET EFFECT	HIGH NET EFFECT	HIGH NET EFFECT	HIGH NET EFFECT	HIGH NET EFFECT	HIGH NET EFFECT	EFFECT	EFFECT	HIGH NET EFFECT	EFFECT	EFFECT	EFFECT
	RANKING: 9 th	RANKING: 10 th	RANKING: 11 th	RANKING: 11 th	RANKING: 3 rd	RANKING: 4 th	RANKING: 5 th	RANKING: 5 th	RANKING: 1 st	RANKING: 2 nd	RANKING: 7 th	RANKING: 7 th
	The high incidence of permanent cool/coldwater streams supports sensitive fish communities, including contributing to occupied SAR habitat.	The high incidence of permanent cool/coldwater streams (3 more than S5-1) supports sensitive fish communities, including contributing to occupied SAR habitat.	The high incidence of permanent cool/coldwater streams (1 more than S5-2) supports sensitive fish communities, including contributing to occupied SAR habitat.	The high incidence of permanent cool/coldwater streams (1 more than S5-2) supports sensitive fish communities, including contributing to occupied SAR habitat.	This route would require the second fewest watercourse crossings (1 more than S5-9) While 2 crossings are over confirmed RSD habitats, it is possible to construct crossings that would not impact these sensitive species (i.e. follow guidance in the RSD Recovery Strategy). Ranking is based on number of crossings and significance of available habitat.	This route would require the fourth fewest watercourse crossings (3 more than S5-9) While 2 crossings are over confirmed RSD habitats, it is possible to construct crossings that would not impact these sensitive species (i.e. follow guidance in the RSD Recovery Strategy). Ranking is based on number of crossings and significance of available habitat.	This route would require the fourth fewest watercourse crossings (3 more than S5-9) While 2 crossings are over confirmed RSD habitats, it is possible to construct crossings that would not impact these sensitive species (i.e. follow guidance in the RSD Recovery Strategy). Ranking is based on number of crossings and significance of available habitat.	This route would require the fourth fewest watercourse crossings (3 more than S5-9) While 2 crossings are over confirmed RSD habitats, it is possible to construct crossings that would not impact these sensitive species (i.e. follow guidance in the RSD Recovery Strategy). Ranking is based on number of crossings and significance of available habitat.	This route would require the least amount of watercourse crossings. While 2 crossings are over confirmed RSD habitats, it is possible to construct crossings that would not impact these sensitive species (i.e. follow guidance in the RSD Recovery Strategy). Ranking is based on number of crossings and significance of available habitat.	This route would require the third fewest watercourse crossings (2 more than S5-9) While 2 crossings are over confirmed RSD habitats, it is possible to construct crossings that would not impact these sensitive species (i.e. follow guidance in the RSD Recovery Strategy). Ranking is based on number of crossings and significance of available habitat.	This route would require the fourth fewest watercourse (3 more than S5-9) While 2 crossings are over confirmed RSD habitats, it is possible to construct crossings that would not impact these sensitive species (i.e. follow guidance in the RSD Recovery Strategy). Ranking is based on number of crossings and significance of available habitat.	This route would require the fourth fewest watercourse (3 more than S5-9) While 2 crossings are over confirmed RSD habitats, it is possible to construct crossings that would not impact these sensitive species (i.e. follow guidance in the RSD Recovery Strategy). Ranking is based on number of crossings and significance of available habitat
1.2 Terrestrial	Ecosystems											
1.2.1 Wildlife and Wildlife Habitat	Net effects associated with the alternative	Net effects associated with the alternative	Net effects associated with the alternative are	Net effects associated with the alternative	Net effects associated with the alternative	Net effects associated with the alternative	Net effects associated with the alternative are	Net effects associated with the alternative	Net effects associated with the alternative	Net effects associated with the alternative	Net effects associated with the alternative	Net effects associated with the alternative

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors					Summ	ary of Potential N	let Effects and Ra	nking				
	are dependent on the ability to	are dependent on the ability to	dependent on the ability to	are dependent on the ability to	are dependent on the ability to	are dependent on the ability to	dependent on the ability to	are dependent on the ability to	are dependent on the ability to	are dependent on the ability to	are dependent on the ability to	are dependent on the ability to
	implement	implement	implement	implement	implement	implement	implement	implement	implement	implement	implement	implement
	avoidance,	avoidance,	avoidance,	avoidance,	avoidance,	avoidance,	avoidance,	avoidance,	avoidance,	avoidance,	avoidance,	avoidance,
	mugation,	miligation,	miligation,	mugation,	mugation,	mugation,	mugation,	mugation,	mugation,	miligation,	mugation,	mugation,
	enhancement	enhancement	enhancement	enhancement	enhancement	enhancement	enhancement	enhancement	enhancement	enhancement	enhancement	enhancement
	measures; until	measures; until	measures; until	measures; until	measures; until	measures; until	measures; until	measures; until	measures; until	measures; until	measures; until	measures; until
	confirmed, net	confirmed, net	confirmed, net	confirmed, net	confirmed, net	confirmed, net	confirmed, net	confirmed, net	confirmed, net	confirmed, net	confirmed, net	confirmed, net
	effects remain	effects remain	effects remain the	effects remain the	effects remain	effects remain	effects remain the	effects remain the	effects remain	effects remain the	effects remain the	effects remain
	the same as	the same as	same as potential	same as potential	the same as	the same as	same as potential	same as potential	the same as	same as potential	same as potential	the same as
	potential effects.	potential effects.	effects. Large	effects. Large	potential effects.	potential effects.	effects. Large	effects. Large	potential effects.	effects. Large	effects. Large	potential effects.
	Large portions of	Large portions of	portions of isolated wildlife	portions of isolated wildlife	Large portions of	notions of	portions of isolated wildlife	portions of	Large portions of	portions of	portions of	Large portions of
	habitats will be	habitats will be	habitats will be	habitats will be	habitats will be	isolated wildlife	habitats will be	habitats will be	habitats will be	habitats will be	habitats will be	habitats will be
	removed.	removed.	removed.	removed	removed.	habitats will be	removed.	removed.	removed.	removed.	removed. Larger	removed. Larger
						removed.					wildlife habitat	wildlife habitat
	Net effects	Net effects	Net effects	Net effects	Net effects		Net effects	Net effects	Net effects	Net effects	features are	features are
	include:	include:	include:	include:	include:	Net effects	include:	include:	include:	include:	associated with	associated with
	 Major wildlife 	 Major wildlife 	 Major wildlife 	 Major wildlife 	Habitat	Include:	 Wildlife babitat 	Wildlife bebitet	Habitat	Habitat	the Campbell's	the Campbell's
	features	features	features	features	features		features in	features in	features	features	the Etobicoke	the Etobicoke
	associated	associated	associated	associated	includes	features	this	this	includes	includes	Creek West	Creek West
	with this	with this	with this	with this	moderate to	includes	alternative	alternative	moderate to	moderate to	Branch.	Branch.
	alternative	alternative	alternative	alternative	high	moderate to	vary in size	vary in size	high	high		
	consist of 12	consist of 12	consist of 15	consist of 14	opportunities	high	and habitat	and habitat	opportunities	opportunities	Net effects	Net effects
	patches	patches	patches	patches	tor	opportunities	diversity.	diversity.	tor	for	Include:	Include:
	eveniy	eveniy	eveniy spaced	eveniy	overwintering	101 overwintering	Larger wildlife	Larger	overwinterin g and	overwintering	Hapilal function of	Hapitat function of
	throughout	throughout	alternative	throughout	, and moderate	and	features are	habitat	moderate	, and moderate	features	features
	the	the	 Permanent 	the alternative	opportunities	moderate	associated	features are	opportunities	opportunities	includes	includes
	alternative	alternative	loss of wildlife	 Permanent 	for breeding	opportunities	with the	associated	for breeding	for breeding	moderate to	moderate to
	 Permanent 	 Permanent 	habitat	loss of wildlife	and rearing	for breeding	Campbell's	with the	and rearing	and rearing of	high	high
	loss of	loss of	including	habitat	of young for	and rearing	Cross Creek	Campbell's	of young for	young for	opportunities	opportunities
	wildlife	Wildlife	confirmed	including	ampniblans,	of young for	and the		ampnibians,	ampnibians,	TOr	TOP
	including	including	Species at	babitat for	and	birds rentiles	Creek West	Etobicoke	rentiles and	and	and	d and
	confirmed	confirmed	Risk (SAR)	Species at	mammals.	and	Branch.	Creek West	mammals.	mammals.	moderate	moderate
	habitat for	habitat for	and candidate	Risk (SAR)	The size and	mammals.	These	Branch.	The size and	The size and	opportunities	opportunities
	Species at	Species at	Significant	and candidate	isolation of	The size and	communities	These	isolation of	isolation of	for breeding	for breeding
	Risk (SAR)	Risk (SAR)	Wildlife	Significant	some these	isolation of	are common	communities	some these	some these	and rearing	and rearing
	and Species	and Species	Habitat	Wildlife	patches may	some these	within the	are common	patches may	patches may	of young for	of young for
	01 Conservation	01 Conservation	(SVVH).		anticipated	reduce the	landscape	surrounding	anticipated	anticipated	birds rentiles	birds
	Concern	Concern	 Lanuscape Level 	(SWII).	function of	anticipated	 Permanent 	landscape	function of	function of	and	reptiles and
	(SCC) and	(SCC) and	movement	level	these	function of	loss of wildlife	 Permanent 	these	these	mammals.	mammals.
	candidate	candidate	corridors are	movement	features as	these	habitat	loss of	features as	features as	The size and	The size and
	Significant	SWH.	identified.	corridors are	wildlife	features as	including	wildlife	wildlife	wildlife	isolation of	isolation of
	Wildlife	Landscape	Local	identified.	habitat.	wildlife	candidate	habitat	habitat.	habitat.	some these	some these
	Habitat	level	movement	Local	Permanent	habitat.	habitat for	including	Permanent	Permanent	patches may	patches may
	(SVVII).	movement	may occur	movement	iuss oi wildlife	 Permanent loss of 	Species at Rick (SAD)	canuldate habitat for	iuss oi Wildlife	habitat	anticinated	anticipated
		identified	corridors The	along rinarian	habitat	wildlife	and confirmed	Species at	habitat	including	function of	function of
	movement	Local	landscape	corridors.	including	habitat	habitat for	Risk (SAR)	including	candidate	these	these

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors					Summ	ary of Potential N	let Effects and Ra	nking				
Evaluation Factors and Sub- Factors	Alternative S5- 1 corridors are identified. Local movement may occur along riparian corridors. The landscape surrounding these features is agricultural and generally permeable to wildlife movement. Removals would represent ~30.4 ha loss of habitat with respect to patches affected by this alternative. Reduction of wildlife habitat quality through indirect effects that cannot be fully mitigated including edge effects (e.g. increased	Alternative S5- 2 movement may occur along riparian corridors. The landscape surrounding these features is agricultural and generally permeable to wildlife movement. • Removals would represent ~38.5 ha loss of habitat with respect to patches affected by this alternative. • Reduction of wildlife habitat quality through indirect effects that cannot be fully mitigated including edge effects (e.g. increased light and noise and the	Alternative S5-3 surrounding these features is agricultural and generally permeable to wildlife movement. • Removals would represent ~49.6 ha loss of habitat with respect to patches affected by this alternative. • Reduction of wildlife habitat quality through indirect effects that cannot be fully mitigated including edge effects (e.g. increased light and noise and the introduction of pathways for invasive species) and increased potential for animal-vehicle collisions	Alternative S5- 4 The landscape surrounding these features is agricultural and generally permeable to wildlife movement. • Removals would represent ~50.2 ha loss of habitat with respect to patches affected by this alternative. • Reduction of wildlife habitat quality through indirect effects that cannot be fully mitigated including edge effects (e.g. increased light and noise and the introduction of pathways for invasive species) and increased potential for animal-	Alternative S5- 5 Summ candidate habitat for Species at Risk (SAR) and confirmed habitat for Species of Conservation Concern (SCC) as well as candidate Significant Wildlife Habitat (SWH). • Landscape level movement corridors are identified. Local movement may occur along riparian corridors. The landscape surrounding these features is agricultural and generally permeable to wildlife movement. • Removals through this alternative would	Alternative S5-6 ary of Potential N including candidate habitat for Species at Risk (SAR) and confirmed habitat for Species of Conservation Concern (SCC) as well as candidate Significant Wildlife Habitat (SWH). • The landscape surrounding these features is predominantl y agricultural and is also generally permeable to wildlife movement. The south portion of this alternative has already been altered through construction of the existing Hwy 410. • Removals	Alternative S5- 7 Iet Effects and Rat Species of Conservation Concern (SCC) as well as candidate Significant Wildlife Habitat (SWH). • The landscape surrounding these features is predominantly agricultural and is also generally permeable to wildlife movement. The south portion of this alternative has already been altered through construction of the existing Hwy 410. • Removals through this alternative would represent ~40.4 ha losses, or complete removal for many habitat patches	Alternative S5- 8 hking and confirmed habitat for Species of Conservation Concern (SCC) as well as candidate Significant Wildlife Habitat (SWH). • The landscape surrounding these features is predominantl y agricultural and is also generally permeable to wildlife movement. The south portion of this alternative has already been altered through construction of the existing Hwy 410. • Removals through this alternative would represent ~34.3 ha losses, or	Alternative S5-9 candidate habitat for Species at Risk (SAR) and confirmed habitat for Species of Conservatio n Concern (SCC) as well as candidate Significant Wildlife Habitat (SWH). • The landscape surrounding these features is predominantl y agricultural and is also generally permeable to wildlife movement. The south portion of this alternative has already been altered through construction of the existing Hwy 410.	Alternative S5- 10 - Preferred habitat for Species at Risk (SAR) and confirmed habitat for Species of Conservation Concern (SCC) as well as candidate Significant Wildlife Habitat (SWH). • The landscape surrounding these features is predominantl y agricultural and is also generally permeable to wildlife movement. The south portion of this alternative has already been altered through construction of the existing Hwy 410. • Removals through this alternative would represent	Alternative S5- 11 features as wildlife habitat. Permanent loss of wildlife habitat including candidate habitat for Species at Risk (SAR) and Species of Conservation Concern (SCC) as well as candidate SWH The landscape surrounding these features is predominantl y agricultural and is also generally permeable to wildlife movement. The south portion of this alternative has already been altered through construction of the existing Hwy 410.	Alternative S5-12 features as wildlife habitat. Permanent loss of wildlife habitat including candidate habitat for Species at Risk (SAR) and SCC as well as candidate SWH The landscape surrounding these features is predominantl y agricultural and is also generally permeable to wildlife movement. The south portion of this alternative has already been altered through construction of the existing Hwy 410.
	light and noise and the	introduction of pathways	edge effects for all patches identified	vehicle collisions	would represent ∼28.3 ha	through this alternative	 Reduction of wildlife habitat 	complete removal for	through this alternative	~34.4 ha losses, or	 Removals through this 	alternative would
	for invasive species) and increased	species) and increased potential for animal-	alternative. Loss of habitat would affect critical life stages by	Removals would result in major removal, fragmentation	cosses, or complete removal for many habitat patches	vouid represent ~30.9 ha losses, or complete	quality through indirect effects that cannot be	 many nabitat patches Reduction of wildlife habitat 	would represent ~31.7 ha losses, or complete	removal for many habitat patches. • Reduction of	aiternative would represent ~43.8 ha losses, or	represent ~39.1 ha losses, or complete removal for
	potential for animal- vehicle collisions	vehicle collisions Removals would result in major	removing habitat requirements (e.g. wetlands for amphibian breeding, forests	and edge effects for all patches identified within the alternative. Loss of habitat	Reduction of wildlife habitat quality through	removal for many habitat patches. • Reduction of wildlife	fully mitigated including edge effects (e.g. increased	quality through indirect effects that cannot be	removal for many habitat patches. • Reduction of wildlife	wildlife habitat quality through indirect effects that	complete removal for many habitat patches.	 many habitat patches Reduction of wildlife habitat
		removal,		would affect	indirect	habitat	light and	fully mitigated	habitat	cannot be	wildlife	quality

Evaluation	Alternative S5-	Alternative S5-	Alternative S5-3	Alternative S5-	Alternative S5-	Alternative	Alternative S5-	Alternative S5-	Alternative	Alternative S5-	Alternative S5-	Alternative
Factors	1	2		4	5	S5-6	7	8	S5-9	10 - Preferred	11	S5-12
and Sub- Factors					Summ	ary of Potential N	let Effects and Ra	nking				
	Removals would result in major removal, fragmentation and edge effects for all patches identified within the alternative. Loss of habitat would affect critical life stages by removing habitat requirements (e.g. wetlands for amphibian breeding, forests for breeding birds, etc.).	fragmentation and edge effects for all patches identified within the alternative. Loss of habitat would affect critical life stages by removing habitat requirements (e.g. wetlands for amphibian breeding, forests for breeding birds, etc.).	for breeding birds, etc.).	critical life stages through by removing habitat requirements (e.g. wetlands for amphibian breeding, forests for breeding birds, etc.).	effects that cannot be fully mitigated including edge effects (e.g. increased light and noise and the introduction of pathways for invasive species) and increased potential for animal- vehicle collisions Loss of habitat would impact critical life stages by removing habitat requirements (e.g. wetlands for amphibian breeding or upload forest habitat for foraging and nesting, etc.).	quality through indirect effects that cannot be fully mitigated including edge effects (e.g. increased light and noise and the introduction of pathways for invasive species) and increased potential for animal- vehicle collisions Loss of habitat would impact critical life stages by removing habitat requirements (e.g. wetlands for amphibian breeding or upload forest habitat for foraging and nesting, etc.).	noise and the introduction of pathways for invasive species) and increased potential for animal-vehicle collisions Loss of habitat would impact critical life stages by removing habitat requirements (e.g. wetlands for amphibian breeding or upload forest habitat for foraging and nesting, etc.).	including edge effects (e.g. increased light and noise and the introduction of pathways for invasive species) and increased potential for animal- vehicle collisions Loss of habitat would impact critical life stages by removing habitat requirements (e.g. wetlands for amphibian breeding or upload forest habitat for foraging and nesting, etc.).	quality through indirect effects that cannot be fully mitigated including edge effects (e.g. increased light and noise and the introduction of pathways for invasive species) and increased potential for animal- vehicle collisions Loss of habitat would impact critical life stages by removing habitat requirements (e.g. wetlands for amphibian breeding or upload forest habitat for foraging and nesting, etc.).	fully mitigated including edge effects (e.g. increased light and noise and the introduction of pathways for invasive species) and increased potential for animal- vehicle collisions Loss of habitat would impact critical life stages by removing habitat requirements (e.g. wetlands for amphibian breeding or upload forest habitat for foraging and nesting, etc.).	habitat quality through indirect effects that cannot be fully mitigated including edge effects (e.g. increased light and noise and the introduction of pathways for invasive species) and increased potential for animal- vehicle collisions Loss of habitat would impact critical life stages by removing habitat requirements (e.g. wetlands for amphibian breeding or upload forest habitat for foraging and nesting, etc.).	through indirect effects that cannot be fully mitigated including edge effects (e.g. increased light and noise and the introduction of pathways for invasive species) and increased potential for animal- vehicle collisions Loss of habitat would impact critical life stages by removing habitat requirements (e.g. wetlands for amphibian breeding or upload forest habitat for foraging and nesting, etc.).
	LOW NET	MODERATE	HIGH NET	HIGH NET	LOW NET	LOW NET	HIGH NET	MODERATE NET	LOW NET	MODERATE NET	HIGH NET	MODERATE
	EFFECT	NET EFFECT	EFFECT	EFFECT	EFFECT	EFFECT	EFFECT	EFFECT	EFFECT	EFFECT	EFFECT	NET EFFECT
	RANKING: 2 nd	RANKING:7 th	RANKING: 11 th	RANKING: 12 th	RANKING: 1 st	RANKING: 2 nd	RANKING: 9 th	RANKING: 5 th	RANKING: 4 th	RANKING: 5 th	RANKING: 10 th	RANKING: 8 th
	All alternatives	All alternatives	All alternatives will	All alternatives	All alternatives	All alternatives	All alternatives	All alternatives	All alternatives	All alternatives	All alternatives	All alternatives
	will result in the	will result in the	result in the loss	will result in the	will result in the	will result in the	will result in the	will result in the	will result in the	will result in the	will result in the	will result in the
	loss of wildlife	loss of wildlife	of wildlife habitat.	loss of wildlife	loss of wildlife	loss of wildlife	loss of wildlife	loss of wildlife	loss of wildlife	loss of wildlife	loss of wildlife	loss of wildlife
	habitat. Ranking	habitat. Ranking	Ranking of	habitat. Ranking	habitat. Ranking	habitat. Ranking	habitat. Ranking	habitat. Ranking	habitat. Ranking	habitat. Ranking	habitat. Ranking	habitat. Ranking
	of routes was	of alternatives	alternatives was	of alternatives	of alternatives	of alternatives	of alternatives	of alternatives	of alternatives	of alternatives	of alternatives	of alternatives
	largely based on	was largely	largely based on	was largely	was largely	was largely	was largelv based	was largely	was largely	was largely	was largely	was largely

Part Direction Description	Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
the arround regimed inspersion required, That inspersion required, That 	and Sub- Factors					Summ	ary of Potential N	Net Effects and Ra	nking				
1.2.2 Net effects		the amount of wildlife habitat removal required. This alterative will result in a low amount of wildlife habitat removal.	based on the amount of wildlife habitat removal required This alternative requires large removal of wildlife habitat associated with the woodland features and wetlands present along Hwy 10.	the amount of wildlife habitat removal required. This alterative will result in the largest amount of wildlife habitat removal.	based on the amount of wildlife habitat removal required. This alternative will result in the largest amount of wildlife habitat removal.	based on the amount of wildlife habitat removal required. This alterative will result in the least amount of wildlife habitat removal.	based on the amount of wildlife habitat removal required. This alterative will result in a low amount of wildlife habitat removal.	on the amount of wildlife habitat removal required. This alternative will result in the loss of large portions of wildlife habitat associated with woodland and wetland features.	based on the amount of wildlife habitat removal required This alternative will result in the loss of large portions of wildlife habitat associated with woodland and wetland features.	based on the amount of wildlife habitat removal required. This alternative will result in the loss of large portions of wildlife habitat associated with woodland and wetland features.	based on the amount of wildlife habitat removal required. This alternative will result in the loss of large portions of wildlife habitat associated with woodland and u wetland features.	based on the amount of wildlife habitat removal required. This alternative will result in the loss of large portions of wildlife habitat associated with woodland and wetland features.	based on the amount of wildlife habitat removal required. This alternative will result in the loss of large portions of wildlife habitat associated with woodland and wetland features.
alternative (Heart Lake PSW and Etobicokealternative (Heart Lake PSW and PSW)include: (Heart Lake PSW and Etobicokealternative (Heart Lake PSW)include: (Heart Lake PSW and PSW)alternative (Heart Lake PSW)alternative (Heart Lake PSW)include: (Heart Lake PSW and PSW and Unevaluatedalternative (Heart Lake PSW and Unevaluatedalternative (Heart Lake PSW and Unevaluatedalternative (Heart Lake PSW andalternative (Heart Lake PSW and Unevaluatedalternative (Heart Lake PSW and Unevaluatedalternative (Heart Lake PSW andalternative (Heart Lake PSW andalternative<	1.2.2 Wetlands	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. Net effects remain the same as moderate portions of existing wetland communities will be removed. Net Effects include: • 2 Provincially Significant Wetlands will be affected by this alternative (Heart Lake PSW and Etobicoke Creek Headwaters PSW) • A total of 4 unevaluated	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. Net effects remain the same as large portions of existing wetland communities will be removed. Net Effects include: • 2 Provincially Significant Wetlands will be affected by this alternative (Heart Lake PSW and Etobicoke Creek Headwaters PSW) • A total of 4 unevaluated	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. Net effects remain the same as large portions of existing wetland communities will be removed. Net Effects include: 2 Provincially Significant Wetlands will be affected by this alternative (Heart Lake PSW and Etobicoke Creek Headwaters PSW) A total of 5 unevaluated wetlands will be affected by this alternative	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. Net effects remain the same as large portions of existing wetland communities will be removed. Net Effects include: • 2 Provincially Significant Wetlands will be affected by this alternative (Heart Lake PSW and Etobicoke Creek Headwaters PSW) • A total of 5 unevaluated wetlands will	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. Net effects remain the same as moderate portions of existing wetland communities will be removed. Net Effects include: • 2 Provincially Significant Wetlands will be affected by this alternative (Heart Lake PSW and Etobicoke Creek Headwaters PSW) • A total of 5 unevaluated	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. Net effects remain the same as moderate portions of existing wetland communities will be removed. Net Effects include: • 2 Provincially Significant Wetlands will be affected by this alternative (Heart Lake PSW and Etobicoke Creek Headwaters PSW) • A total of 5 unevaluated	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. Net effects remain the same as moderate portions of existing wetland communities will be removed. Net Effects include: • 2 Provincially Significant Wetlands will be affected by this alternative (Heart Lake PSW and Etobicoke Creek Headwaters PSW) • A total of 6 unevaluated wetlands are	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. Net effects remain the same as large portions of existing wetland communities will be removed. Net Effects include: • 2 Provincially Significant Wetlands will be affected by this alternative (Heart Lake PSW and Etobicoke Creek Headwaters PSW) • A total of 5 unevaluated wetlands are	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. Net effects remain the same as moderate portions of existing wetland communities will be removed. Net effects remain the same as large portions of existing wetland communities will be removed. Net effects remain the same as large portions of existing wetland communities will be removed. Net Effects include: • 2 Provincially Significant Wetlands will be affected by this alternative (Heart Lake PSW and	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. Net effects remain the same as moderate portions of existing wetland communities will be removed. Net effects remain the same as small portions of wetland will be removed. Net Effects include: 2 Provincially Significant Wetlands will be affected by this alternative (Heart Lake PSW and Etobicoke	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. Net effects remain the same as moderate portions of existing wetland communities will be removed. Net effects remain the same as large portions of existing wetland communities will be removed. Net effects remain the same as large portions of existing wetland communities will be removed. Net Effects include: • 2 Provincially Significant Wetlands will be affected by this alternative (Heart Lake PSW and	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. Net effects remain the same as moderate portions of existing wetland communities will be removed. Net effects remain the same as large portions of existing wetland communities will be removed. Net effects remain the same as large portions of existing wetland communities will be removed. Net Effects include: • 2 Provincially Significant Wetlands will be affected by this alternative (Heart Lake PSW and

Evaluation	Alternative S5-	Alternative S5-	Alternative S5-3	Alternative S5-	Alternative S5-	Alternative	Alternative S5-	Alternative S5-	Alternative	Alternative S5-	Alternative S5-	Alternative
Factors	1	2		4	5	S5-6	7	8	S5-9	10 - Preferred	11	S5-12
Factors					Summ	ary of Potential N	let Effects and Ra	nking				
	with riparian areas. Wetland features through	features through this alternative have limited	result of this alternative. Changes to	Wetland features within the alternative vary in	result of this alternative. Changes to	buffers. Existing natural buffers are proposed for	alternative. Changes to adiacent land use	alternative. Changes to adiacent land use	these features	limited natural buffers. Existing natural buffers	alternative have limited natural buffers, Existing	these features
	this alternative have limited natural buffers. Existing natural buffers are proposed for removal as a result of this alternative. Changes to adjacent land use have the potential to impact hydrological inputs to portions of features remaining.	natural buffers. Existing natural buffers are proposed for removal as a result of this alternative. Changes to adjacent land use have the potential to impact hydrological inputs to portions of features remaining.	adjacent land use have the potential to impact hydrological inputs to portions of features remaining.	size, are linear in nature and often associated with riparian areas. Wetland features through this alternative have limited natural buffers. Existing natural buffers are proposed for removal as a result of this alternative. Changes to adjacent land use have the potential to impact hydrological inputs to portions	adjacent land use have the potential to impact hydrological inputs to portions of features remaining.	removal as a result of this alternative. Changes to adjacent land use have the potential to impact hydrological inputs to portions of features remaining.	have the potential to impact hydrological inputs to portions of features remaining.	have the potential to impact hydrological inputs to portions of features remaining.	Wetland features through this alternative have limited natural buffers. Existing natural buffers are proposed for removal as a result of this alternative. Changes to adjacent land use have the potential to impact hydrological inputs to portions of features remaining.	are proposed for removal as a result of this alternative. Changes to adjacent land use have the potential to impact hydrological inputs to portions of the features remaining.	natural buffers are proposed for removal as a result of this alternative. Changes to adjacent land use have the potential to impact hydrological inputs to portions of the features remaining.	Wetland features through this alternative have limited natural buffers. Existing natural buffers are proposed for removal as a result of this alternative. Changes to adjacent land use have the potential to impact hydrological inputs to portions of features remaining.
	MODERATE	MODERATE	HIGH NET	HIGH NET	LOW NET	LOW NET	MODERATE NET	MODERATE NET	LOW NET	LOW NET	MODERATE NET	MODERATE
	NET EFFECT	NET EFFECT	EFFECT	EFFECT	EFFECT	EFFECT	EFFECT	EFFECT	EFFECT	EFFECT	EFFECT	NET EFFECT
	RANKING: 3 rd	RANKING: 6 th	RANKING: 11 th	RANKING: 12 th	RANKING: 3rd	RANKING: 3 rd	RANKING: 7 th	RANKING: 9 th	RANKING: 1 st	RANKING: 1 st	RANKING: 7 th	RANKING: 9 th
	All alternatives	All alternatives	All alternatives will	All alternatives	All alternatives	All alternatives	All alternatives	All alternatives	All alternatives	All alternatives	All alternatives	All alternatives
	will affect	will affect	affect wetland	will affect wetland	will affect	will affect	will affect wetland	will affect wetland	will affect	will affect wetland	will affect wetland	will affect
	wetland	wetland	communities.	communities.	wetland	wetland	communities.	communities.	wetland	communities. Ra	communities. Ra	wetland
	communities.	communities.	Ranking of	Ranking of	communities.	communities.	Ranking of	Ranking of	communities. R	nking of	nking of	communities. Ra
	Ranking of	Ranking of	alternatives was	alternatives was	Ranking of	Ranking of	alternatives was	alternatives was	anking of	alternatives was	alternatives was	nking of
	alternatives was	alternatives was	largely based on	largely based on	alternatives was	alternatives was	largely based on	largely based on	alternatives was	largely based on	largely based on	alternatives was
	largely based on	largely based on	the amount of	the amount of	largely based on	largely based on	the amount of	the amount of	largely based on	the amount of	the amount of	largely based on
	the amount of	the amount of	area and number	area and number	the amount of	the amount of	area and number	area and number	the amount of	area and number	area and number	the amount of
	area and number	area and number	of wetland	of wetland	area and number	area and number	of wetland	of wetland	area and number	of wetland	of wetland	area and number
	of wetland	of wetland	communities	communities	of wetland	of wetland	communities	communities	of wetland	communities	communities	of wetland
	communities	communities	required for	required for	communities	communities	required for	required for	communities	required for	required for	communities
	required for	required for	removal. This	removal. This	required for	required for	removal. This	removal. All	required for	removal. This	removal. This	required for
	removal. This	removal. This	alternative will	alternative will	removal. This	removal. This	alternative will	wetlands will be	removal. This	alternative will	alternative will	removal. This
	alternative will	alternative will	result in a large	result in the	alternative will	alternative will	result in a large	attected by this	alternative will	result in the least	result in a large	alternative will
	result in a large	result in a large	amount of wetland	largest amount of	result in a large	result in a large	amount of	alternative. This	result in a large	amount of	amount of	result in a large
	amount of	amount of	removal including	wetland removal	amount of	amount of	wetland removal	alternative will	amount of	wetland removal	wetland removal	amount of
	wetland removal including small portions of PSW	wetland removal including small portions of PSW	removal of small portions of PSW and larger	of small portions	wetland removal including small portions of PSW	wetland removal including small portions of PSW	nciuding small portions of PSW and larger	result in a large amount of wetland removal	including small portions of PSW	nciuding small portions of PSW and larger	ncluding small portions of PSW and larger	including small portions of PSW
	and larger portions of	and larger portions of	portions of unevaluated	larger portions of	and larger portions of	and larger portions of	portions of unevaluated	Including small portions of PSW	and larger portions of	portions of unevaluated	portions of unevaluated	and larger portions of

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
Factors					Summ	ary of Potential N	let Effects and Ra	nking				
	unevaluated wetland similar in area to alternative S5-5 and S5-6.	unevaluated wetland. This alternative will require less area of removal than Alternatives S5 7 and S5-11.	wetland. However, AlternativeS5-4 will require greater area of removal for wetland communities.	unevaluated wetland.	unevaluated wetland similar in area to Alternatives S5-1 and S5-6.	unevaluated wetland similar in area to Alternatives S5-1 and S5-5.	wetland similar in area to alternative S5-11.	and larger portions of unevaluated wetland similar in area to alternative S5-12.	unevaluated wetland than Alternatives S5- 1, S5-5 and S5- 6.	wetlands than Alternatives S5-1, S5-5 and S5-6.	wetland similar in area to alternative S5-7.	unevaluated wetland similar in area to alternative S5-8.
1.2.3 Woodlands and Vegetation	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. Route alignment adjustments to the south will allow for a small reduction in the amount of woodland removed. Net Effects include: • Removal of ~23.3 ha of vegetation communities including forest, meadow, thicket, woodland and treed swamp • The alternative will affect ~7.9 ha of potentially significant	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. Route alignment adjustments to the south will allow for a small reduction in the amount of woodland removed. Net Effects include: • Removal of ~30.1 ha of vegetation communities including forest, meadow, thicket, cultural woodland, cultural plantation and treed swamp • The alternative will affect	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. Route alignment adjustments to the south will allow for a small reduction in the amount of woodland removed. Net Effects include: • Removal of ~40.8 ha of vegetation communities including forest, meadow, cultural plantation and treed swamp • The alternative will affect ~17.4 ha of potentially significant woodland • One interior	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. Route alignment adjustments to the south will allow for a small reduction in the amount of woodland removed. Net Effects include: • Removal of ~38.8 ha of vegetation communities including forest, meadow and treed swamp. • The alternative will affect ~17.1 ha of potentially significant woodland. • No interior woodland.	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. Route alignment adjustments to the south will allow for a small reduction in the amount of woodland removed. Route alignment adjustments to the west of EC- SC-40 will allow for a small reduction in the amount of woodland removed. Route alignment adjustments to the west of EC- SC-40 will allow for a small reduction in the amount of woodland removed. Net Effects include: • Removal of ~20.0 ha of vegetation communities including meadow, thicket, plantation,	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. Route alignment adjustments to the west of EC- SC-40 will allow for a small reduction in the amount of woodland removed. Net Effects include: • Removal of ~22.8 ha of vegetation communities including forest, swamp, thicket, cultural plantation, cultural woodland and meadow • The alternative will affect	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. Route alignment adjustments to the west of EC- SC-40 will allow for a small reduction in the amount of woodland removed. Net Effects include: • Removal of ~31.8 ha of vegetation communities including forest, swamp, cultural plantation and meadow • The alternative will affect ~13.0 ha of potentially significant	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. Route alignment adjustments to the west of EC- SC-40 will allow for a small reduction in the amount of woodland removed. Net Effects include: • Removal of ~23.0 ha of vegetation communities including forest, swamp, cultural plantation and meadow • The alternative will affect ~9.7 ha of potentially significant	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. Route alignment adjustments to the south will allow for a small reduction in the amount of woodland removed. Route alignment adjustments to the west of EC- SC-40 and EC- SC-40 will allow for a small reduction in the amount of woodland removed. Net effects will remain the same for all other woodlands and vegetation. Net Effects include: • Removal of ~24.8 ha of	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. Route alignment adjustments to the south will allow for a small reduction in the amount of woodland removed Route alignment adjustments to the west of EC- SC-40 will allow for a small reduction in the amount of woodland removed. Route alignment adjustments to the west of EC- SC-40 will allow for a small reduction in the amount of woodland removed. Route alignment adjustments to the west of EC- SC-41, EC-SC- 42, and EC-SC- 44 will allow for a small reduction in the amount of woodland removed; however large	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. Route alignment adjustments to the south will allow for a small reduction in the amount of woodland removed Route alignment adjustments to the west of EC- SC-40 will allow for a small reduction in the amount of woodland removed. Route alignment adjustments to the west of EC- SC-40 will allow for a small reduction in the amount of woodland removed. Route alignment adjustments to the west of EC- SC-41, EC-SC- 42, and EC-SC- 44 will allow for a small reduction in the amount of woodland removed; however large	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. Route alignment adjustments to the south will allow for a small reduction in the amount of woodland removed Route alignment adjustments to the west of EC- SC-40 will allow for a small reduction in the amount of woodland removed. Route alignment adjustments to the west of EC- SC-40 will allow for a small reduction in the amount of woodland removed. Route alignment adjustments to the west of EC- SC-41, EC-SC- 42, and EC-SC- 44 will allow for a small reduction in the amount of woodland removed; however large
	woodland.No interior woodland	~14.5 ha of potentially	woodland habitat is impacted by	habitat is impacted by	woodland, forest and treed swamp	~10.5 ha of potentially	woodland No interior woodland	woodlandNo interiorwoodland	vegetation communities includina	parcels of EC- SC-40 and HU- WH-52 will be	parcels of EC- SC-40 will be largely removed	parcels of EC- SC-40 will be largely removed

and Sub- FactorsAnd Sub- Factorshabitat is impacted by this alternative.significant woodlandthis alternative.and HU-WH-52 woodlandNo by this alternative.this alternative.this alternative.this alternative.this alternative.this alternative.this alternative.this alternative.and HU-WH-52 woodlandNo Species at by this alternative.this alternative.this alternative.this alternative.thi	
 habitat is impacted by this alternative. No interior valley lands are affected by this alternative. No significant valley lands are affected by this alternative. No Species at eaffected by this alternative. No Species at reaffected by this alternative. No Species at eaffected by this alternative. No Species at reaffected by this alternative. No Species at reaffect	
af Risk GRR plant or rare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation corrare vegetation v	 and HU-WH-52 will be completely removed within this alignment. Net effects will remain the same for all other woodlands and vegetation. Net Effects include: Removal of ~29.0 ha of vegetation communities including forest, meadow, thicket, woodland and treed swamp The alternative will affect ~15.7 ha of potentially significant woodland One interior woodland habitat is impacted by this alternative. No significant valley lands are affected by this alternative. No Species at Risk (SAR) plant or rare vegetation communities have been identified. However, not all

Evaluation	Alternative S5-	Alternative S5-	Alternative S5-3	Alternative S5-	Alternative S5-	Alternative	Alternative S5-	Alternative S5-	Alternative	Alternative S5-	Alternative S5-	Alternative
Factors	1	2		4	5	S5-6	7	8	S5-9	10 - Preferred	11	S5-12
Factors					Summ	ary of Potential N	let Effects and Ra	nking				
	canopy blow down)	species, edge / exposure impacts (e.g. canopy blow down)			sediment / debris), introduction of pathways for invasive species, edge / exposure impacts (e.g. canopy blow down)				mitigated including effects from road contaminant s (e.g. salt, heavy metals, sediment / debris), introduction of pathways for invasive species, edge / exposure impacts (e.g. canopy blow down)	restrictions (Permission To Enter). • Reduction in vegetation community quality through indirect effects that cannot be fully mitigated including effects from road contaminants (e.g. salt, heavy metals, sediment / debris), introduction of pathways for invasive species, edge / exposure impacts (e.g. canopy blow down)	the field due to access restrictions (Permission To Enter). • Reduction in vegetation community quality through indirect effects that cannot be fully mitigated including effects from road contaminants (e.g. salt, heavy metals, sediment / debris), introduction of pathways for invasive species, edge / exposure impacts (e.g. canopy blow down)	communities could be assessed in the field due to access restrictions (Permission To Enter). • Reduction in vegetation community quality through indirect effects that cannot be fully mitigated including effects from road contaminant s (e.g. salt, heavy metals, sediment / debris), introduction of pathways for invasive species, edge / exposure impacts (e.g. canopy blow down)
	LOW NET	HIGH NET	HIGH NET	HIGH NET	LOW NET	MODERATE	HIGH NET	LOW NET	MODERATE	MODERATE NET	HIGH NET	MODERATE
	EFFECT	EFFECT	EFFECT	EFFECT	EFFECT	NET EFFECT	EFFECT	EFFECT	NET EFFECT	EFFECT	EFFECT	NET EFFECT
	RANKING: 2 nd	RANKING: 8 th	RANKING: 12 th	RANKING: 11 th	RANKING: 1 st	RANKING: 2 nd	RANKING: 9 th	RANKING: 2 nd	RANKING: 5 th	RANKING: 6 th	RANKING: 10 th	RANKING: 7 th
	All alternatives	All alternatives	All alternatives will	All alternatives	All alternatives	All alternatives	All alternatives	All alternatives	All alternatives	All alternatives	All alternatives	All alternatives
	will affect	will affect	affect woodlands	will affect	will affect	will affect	will affect	will affect	will affect	will affect	will affect	will affect
	woodland and	woodland and	and other	woodlands and	woodlands and	woodlands and	woodlands and	woodlands and	woodlands and	woodlands and	woodlands and	woodlands and
	other vegetation	other vegetation	vegetation	other vegetation	other vegetation	other vegetation	other vegetation	other vegetation	other vegetation	other vegetation	other vegetation	other vegetation
	communities.	communities.	communities.	communities.	communities.	communities.	communities.	communities.	communities. Alt	communities. Alt	communities. Alt	communities. Alt
	Route	Alternatives were	Alternatives were	Alternatives were	Alternatives were	Alternatives were	Alternatives were	Alternatives were	ernatives were	ernatives were	ernatives were	ernatives were
	alternatives were	ranked based on	ranked based on	ranked based on	ranked based on	ranked based on	ranked based on	ranked based on	ranked based on	ranked based on	ranked based on	ranked based on
	ranked based on	the amount of	the amount of	the amount of	the amount of	the amount of	the amount of	the amount of	the amount of	the amount of	the amount of	the amount of
	the amount of	woodland and	woodland and	woodland and	woodland and	woodland and	woodland and	woodland and	woodland and	woodland and	woodland and	woodland and

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors					Summ	ary of Potential N	let Effects and Ra	nking				
r	woodland and upland vegetation removal required. This route will affect medium sized woodland communities and other vegetation communities associated with riparian areas.	upland vegetation removal required. This alternative will affect large portions of wooded and meadow communities associated with unevaluated wetlands.	upland vegetation removal required. This alternative will affect the greatest amount of upland communities and potentially significant woodlands.	upland vegetation removal required. This alternative will affect the greatest amount of upland communities and potentially significant woodlands.	upland vegetation removal required. This alternative will affect the least amount of upland communities and potentially significant woodlands.	upland vegetation removal required. This alternative will affect medium sized woodland communities and other vegetation communities associated with riparian areas.	upland vegetation removal required. This alternative will affect medium sized woodland communities and other vegetation communities associated with riparian areas.	upland vegetation removal required. This alternative will affect medium sized woodland communities and other vegetation communities associated with riparian areas.	upland vegetation removal required. This alternative will affect medium sized woodland communities and other vegetation communities associated with riparian areas.	upland vegetation removal required. This alternative will affect medium sized woodland communities and other vegetation communities associated with riparian areas.	upland vegetation removal required. This alternative will affect large portions of medium sized woodland communities and other vegetation communities associated with riparian areas. This alternative will require less removal than alternatives 5-3 and 5-4.	upland vegetation removal required. This alternative will affect medium sized woodland communities and other vegetation communities associated with riparian areas.
1.2.4 I Designated/S pecial/ Natural Areas i a f (c f t t t Areas	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. • There are no ESA, ESPAs, ANSI or other designated areas within this alternative. • There are no national or provincial parks within this alternative. • There are no national or provincial parks within this alternative.	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. • There are no ESA, ESPAs, ANSI or other designated areas within this alternative. • There are no national or provincial parks within this alternative.	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. • There are no ESA, ESPAs, ANSI or other designated areas within this alternative. • There are no national or provincial parks within this alternative. • There are no Conservation Authority lands within this	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. • There are no ESA, ESPAs, ANSI or other designated areas within this alternative. • There are no national or provincial parks within this alternative. • There are no Conservation Authority lands within this	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. • There are no ESA, ESPAs, ANSI or other designated areas within this alternative. • There are no national or provincial parks within this alternative. • There are no Conservation Authority lands within	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. • There are no ESA, ESPAs, ANSI or other designated areas within this alternative. • There are no national or provincial parks within this alternative. • There are no conservation Authority	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. • There are no ESA, ESPAs, ANSI or other designated areas within this alternative. • There are no national or provincial parks within this alternative. • There are no Conservation Authority lands within this	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. • There are no ESA, ESPAs, ANSI or other designated areas within this alternative. • There are no national or provincial parks within this alternative. • There are no Conservation Authority lands within this	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. • There are no ESA, ESPAs, ANSI or other designated areas within this alternative. • There are no national or provincial parks within this alternative. • There are no conservatio n Authority	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. • There are no ESA, ESPAs, ANSI or other designated areas within this alternative. • There are no national or provincial parks within this alternative. • There are no Conservation Authority lands within this	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. • There are no ESA, ESPAs, ANSI or other designated areas within this alternative. • There are no national or provincial parks within this alternative. • There are no Conservation Authority lands within this	Net effects associated with the alternative are dependent on the ability to implement avoidance, mitigation, compensation / enhancement measures; until confirmed, net effects remain the same as potential effects. • There are no ESA, ESPAs, ANSI or other designated areas within this alternative. • There are no national or provincial parks within this alternative.

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors					Summ	ary of Potential N	let Effects and Ra	nking				
Factors	this alternative. • ~0.821 km (~16 ha) of the alternative is within the Greenbelt Plan Area – Natural Heritage System. • Is within the	 this alternative. ~0.821 km (~16 ha) of the alternative is within the Greenbelt Plan Area – Natural Heritage System. Is within the Biver 	 ~0.761 km (~15 ha) of the alternative is within the Greenbelt Plan Area – Natural Heritage System. Is within the Urban River Valley Region of Basel Official 	 ~0.780 km (~15 ha) of the alternative is within the Greenbelt Plan Area – Natural Heritage System. Is within the Urban River Valley 	this alternative. • ~0.663 km (~17 ha) of the alternative is within the Greenbelt Plan Area – Natural Heritage System. • Region of Decl Official	 this alternative. ~0.663 km (~17 ha) of the alternative is within the Greenbelt Plan Area – Natural Heritage System. Region of Bool Official 	 ~0.603 km (~17 ha) of the alternative is within the Greenbelt Plan Area – Natural Heritage System. Region of Peel Official Plan Designations 	 ~0.622 km (~16 ha) of the alternative is within the Greenbelt Plan Area – Natural Heritage System. Region of Peel Official Plan 	 this alternative. ~0.621 km (~15 ha) of the alternative is within the Greenbelt Plan Area – Natural Heritage System. Region of Baci Oficial 	 ~ 0.621 km (~15 ha) of the alternative is within the Greenbelt Plan Area – Natural Heritage System. Region of Peel Official Plan 	 ~ 0.621 km (~15 ha) of the alternative is within the Greenbelt Plan Area – Natural Heritage System. Region of Peel Official Plan Designatione 	 this alternative. ~ 0.581 km (~14 ha) of the alternative is within the Greenbelt Plan Area – Natural Heritage System. Region of Basil Official
	 Urban River Valley Region of Peel Official Plan Designations Intersects with 'Core Areas of Greenlands System' at six locations 	 Urban River Valley Region of Peel Official Plan Designations Intersects with 'Core Areas of Greenlands System' at System' at 	Peel Official Plan Designations - Intersects with 'Core Areas of Greenlands System' at six locations, including fragmentation of one minor	 Region of Peel Official Plan Designations Intersects with 'Core Areas of Greenlands System' at six locations, including fragmentation 	Peel Official Plan Designations - Intersects with 'Core Areas of Greenlands System' at seven locations, including fragmentatio	Peel Official Plan Designations - Intersects with 'Core Areas of Greenlands System' at seven locations, including fragmentatio	- Intersects with 'Core Areas of Greenlands System' at eight locations, including fragmentation of one minor riparian zone at two points	Designations - Intersects with 'Core Areas of Greenlands System' at eight locations, including fragmentation of one minor riparian zone	Peel Official Plan Designations - Intersects with 'Core Areas of Greenlands System' at eight locations, including fragmentatio	Designations - Intersects with 'Core Areas of Greenlands System' at eight locations, including fragmentation of two minor riparian	Designations - Intersects with 'Core Areas of Greenlands System' at nine locations, including fragmentation of one minor riparian zone	Peel Official Plan Designations - Intersects with 'Core Areas of Greenlands System' at nine locations, including fragmentatio
	including fragmentatio n of two minor riparian zones (one at three points), fragmentatio n of one	including fragmentatio n of two minor riparian zones (one at three points), fragmentatio n of one	at three points, fragmentation of one significant forested riparian corridor, partial removal of	of one minor riparian zone at three points, fragmentation of one significant forested riparian corridor,	n of two minor riparian zones, fragmentatio n of one significant forested riparian corridor at	n of two minor riparian zones, fragmentatio n of one significant forested riparian corridor at	fragmentation of one significant forested riparian corridor at two points and edge or partial removal of	at two points, fragmentation of one significant forested riparian corridor at two points and edge or partial	n of two minor riparian zones, fragmentatio n of one significant forested riparian corridor at	zones, fragmentation of one significant forested riparian corridor at two points, removal of one woodlot	at two points, fragmentation of one significant forested riparian corridor at two points, removal of one woodlot	n of one minor riparian zone at two points, fragmentatio n of one significant forested riparian corridor
	significant forested riparian corridor and edge removal along an area of riparian forest	significant forested riparian corridor and edge removal along an area of riparian forest	one riparian forest patch and edge removal along an area of riparian forest • Town of Caledon Official Plan - Intersects with	 partial removal of one riparian forest patch and edge removal along an area of riparian forest Town of 	two points and edge or partial removal of three woodlots • Town of Caledon Official Plan - Intersects	two points and edge or partial removal of three woodlots • Town of Caledon Official Plan - Intersects	four woodlots Town of Caledon Official Plan - Intersects with Environmenta I Policy Areas at five locations, in shudin n 	 removal of four woodlots Town of Caledon Official Plan - Intersects with Environment al Policy Areas at five 	two points, removal of one woodlot and edge or partial removal of three woodlots • Town of Caledon	 and edge or partial removal of three woodlots Town of Caledon Official Plan (Schedule A – Land Use 	 and edge or partial removal of four woodlots Town of Caledon Official Plan (Schedule A – Land Use Plan) - 	(~200 m width) at two points, removal of one woodlot and edge or partial removal (~25%) of four
	 rown of Caledon Official Plan - Intersects with Environment al Policy Areas at five locations, 	 rown of Caledon Official Plan Intersects with Environment al Policy Areas at five locations, 	Environmental Policy Areas at five locations, including fragmentation of four minor riparian zones and	Caledon Official Plan - Intersects with Environmenta I Policy Areas at five locations, including	Environment al Policy Areas at five locations, including fragmentatio n of four minor	Areas at five locations, including fragmentatio n of four minor	fragmentation of four minor riparian zones and fragmentation of one significant forested	including fragmentation of four minor riparian zones and fragmentation of one significant	(Schedule A – Land Use Plan) - Intersects with Environment al Policy Areas at five	Intersects with Environmenta I Policy Areas at five locations, including fragmentation	with Environment al Policy Areas at five locations, including fragmentation of four minor	 Town of Caledon Official Plan (Schedule A – Land Use Plan) - Intersects with

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors					Summ	nary of Potential N	Net Effects and Ra	nking				
	including fragmentatio n of four minor riparian zones and fragmentatio n of one significant forested riparian corridor • Town of Caledon Official Plan - Intersects with Environment al Policy Areas at two locations, including edge removal along an area of riparian forest.	including fragmentatio n of four minor riparian zones and fragmentatio n of one significant forested riparian corridor. • Town of Caledon Official Plan - Intersects with Environment al Policy Areas at two locations, including edge removal along an area of riparian forest	fragmentation of one significant forested riparian corridor • Town of Caledon Official Plan - Intersects with Environmental Policy Areas at two locations, including edge removal along an area of riparian forest	fragmentation of four minor riparian zones and fragmentation of one significant forested riparian corridor. • Town of Caledon Official Plan - Intersects with Environmenta I Policy Areas at two locations, including edge removal along an area of riparian forest	riparian zones and fragmentatio n of one significant forested riparian corridor • Town of Caledon Official Plan - Intersects with Environment al Policy Areas at two locations, including edge removal along an area of riparian forest	riparian zones and fragmentatio n of one significant forested riparian corridor Town of Caledon Official Plan - Intersects with Environment al Policy Areas at two locations, including edge removal along an area of riparian forest	riparian corridor Town of Caledon Official Plan - Intersects with Environmenta I Policy Areas at two locations, including edge removal along an area of riparian forest	forested riparian corridor • Town of Caledon Official Plan - Intersects with Environment al Policy Areas at two locations, including edge removal along an area of riparian forest MODERATE NET EFFECT	locations, including fragmentatio n of four minor riparian zones and fragmentatio n of one significant forested riparian corridor • Town of Caledon Official Plan (Schedule B – Mayfield West Land Use Plan) - Intersects with Environment al Policy Areas at two locations, including fragmentatio n of one significant forested riparian corridor and edge removal along an area of riparian forest	of four minor riparian zones and fragmentation of one significant forested riparian corridor • Town of Caledon Official Plan (Schedule B – Mayfield West Land Use Plan) - Intersects with Environmenta I Policy Areas at two locations, including edge removal along an area of riparian forest and complete removal from one small forest patch	riparian zones and fragmentation of one significant forested riparian corridor (~200 m width) • Town of Caledon Official Plan (Schedule B – Mayfield West Land Use Plan) - Intersects with Environment al Policy Areas at two locations, including fragmentation of one significant forested riparian corridor and complete removal from one small forest patch.	Environment al Policy Areas at five locations, including fragmentatio n of four minor riparian zones and fragmentatio n of one significant forested riparian corridor (~200 m width) • Town of Caledon Official Plan (Schedule B – Mayfield West Land Use Plan) - Intersects with Environment al Policy Areas at two locations, including fragmentatio n of one significant forested riparian corridor (~200 m width) and complete removal from one small forest patch
	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 9 th	RANKING: 9 th	RANKING: 9 th	RANKING: 9 th

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
Factors					Summ	ary of Potential N	let Effects and Ra	nking				
	All alternatives are anticipated to affect The Greenbelt Plan Area Natural Heritage System and associated Greenlands and EPAS.	All alternatives are anticipated to affect The Greenbelt Plan Natural Heritage System and associated Greenlands and EPAS.	All alternatives are anticipated to affect The Greenbelt Plan Natural Heritage System and associated Greenlands and EPAS.	All alternatives are anticipated to affect The Greenbelt Plan Natural Heritage System and associated Greenlands and EPAS.	All alternatives are anticipated to affect The Greenbelt Plan Natural Heritage System and associated Greenlands and EPAS.	All alternatives are anticipated to affect The Greenbelt Plan Natural Heritage System and associated Greenlands and EPAS.	All alternatives are anticipated to affect The Greenbelt Plan Natural Heritage System and associated Greenlands and EPAS.	All alternatives are anticipated to affect The Greenbelt Plan Natural Heritage System and associated Greenlands and EPAS.	All alternatives are anticipated to affect The Greenbelt Plan Natural Heritage System and associated Greenlands and EPAS. This alternative requires the removal of a small portion of the Caledon South Lands CA.	All alternatives are anticipated to affect The Greenbelt Plan Natural Heritage System and associated Greenlands and EPAS. This alternative requires the removal of a small portion of the Caledon South Lands CA.	All alternatives are anticipated to affect The Greenbelt Plan Natural Heritage System and associated Greenlands and EPAS. This alternative requires the removal of a small portion of the Caledon South Lands CA.	All alternatives are anticipated to affect The Greenbelt Plan Natural Heritage System and associated Greenlands and EPAS. This alternative requires the removal of a small portion of the Caledon South Lands CA.
1.3 Ecosystem	Relative ES Value	Relative ES Value	Relative ES Value	Relative ES Value	Relative ES Value	Relative ES Value	Relative ES Value	Relative ES Value	Relative ES Value	Relative ES Value	Relative ES Value	Relative ES Value
Services	 Agriculture: High Natural Cover: Moderate Cumulative: Moderate 	 Agriculture: High Natural Cover: Moderate Cumulative: Moderate 	 Agriculture: Moderate Natural Cover: High Cumulative: High ES Value Papresentation 	 Agriculture: Moderate Natural Cover: High Cumulative: High ES Value Bapresentation 	 Agriculture: High Natural Cover: Moderate Cumulative: Moderate 	 Agriculture: High Natural Cover: Moderate Cumulative: Moderate 	 Agriculture: High Natural Cover: Moderate Cumulative: High 	 Agriculture: High Natural Cover: Moderate Cumulative: High 	 Agriculture: High Natural Cover: Moderate Cumulative: High 	 Agriculture: High Natural Cover: Moderate Cumulative: High 	 Agriculture: High Natural Cover: High Cumulative: High ES Value 	 Agriculture: High Natural Cover: High Cumulative: High ES Value
	Representation • Agricultu re: 34% • Natural Cover: 66% MODERATE NET EFFECT	Representation • Agricultu re: 32% • Natural Cover: 68% MODERATE NET EFFECT	Agricultur e: 24% Natural Cover: 76% HIGH NET EFFECT	 Agricultur Agricultur 23% Natural Cover: 77% HIGH NET EFFECT 	 Agricultu re: 39% Natural Cover: 61% MODERATE NET EFFECT 	ES Value Representation • Agricultu re: 40% • Natural Cover: 60% MODERATE NET EFFECT	ES Value Representation • Agricultur e: 32% • Natural Cover: 68% HIGH NET EFFECT	 Representation Agricultur e: 32% Natural Cover: 68% HIGH NET EFFECT 	 Agricultu Agricultu re: 35% Natural Cover: 65% HIGH NET EFFECT 	ES Value Representation • Agricultur e: 36% • Natural Cover: 64% HIGH NET EFFECT	Agricultur e: 29% Natural Cover: 71% HIGH NET EFFECT	 Agricultu re: 29% Natural Cover: 71% HIGH NET EFFECT
	Representation Agricultu re: 34% Natural Cover: 66% MODERATE NET EFFECT RANKING: 3 rd	Representation • Agricultu re: 32% • Natural Cover: 68% MODERATE NET EFFECT RANKING: 3 rd	Agricultur e: 24% Natural Cover: 76% HIGH NET EFFECT RANKING: 9 th	Agricultur e: 23% Natural Cover: 77% HIGH NET EFFECT RANKING: 9 th	Representation • Agricultu re: 39% • Natural Cover: 61% MODERATE NET EFFECT RANKING: 1 st	ES Value Representation • Agricultu re: 40% • Natural Cover: 60% MODERATE NET EFFECT RANKING: 1 st	ES Value Representation • Agricultur e: 32% • Natural Cover: 68% HIGH NET EFFECT RANKING: 7 th	es value Representation • Agricultur e: 32% • Natural Cover: 68% HIGH NET EFFECT RANKING: 7 th	 Agricultu Agricultu re: 35% Natural Cover: 65% HIGH NET EFFECT RANKING: 5th 	ES Value Representation • Agricultur e: 36% • Natural Cover: 64% HIGH NET EFFECT RANKING: 5 th	Agricultur e: 29% Natural Cover: 71% HIGH NET EFFECT RANKING: 11 th	 Agricultu re: 29% Natural Cover: 71% HIGH NET EFFECT RANKING: 11th
	Representation Agricultu re: 34% Natural Cover: 66% MODERATE NET EFFECT RANKING: 3rd Alternatives S5-1, S5-2, S5-5, S5-6 all have moderate net effects based on the Ecosystem Service Net Effects weighting. All have High Agriculture, Moderate Natural Cover and	 Representation Agricultu re: 32% Natural Cover: 68% MODERATE NET EFFECT RANKING: 3rd Alternatives S5- 1, S5-2, S5-5, S5-6 all have moderate net effects based on the Ecosystem Service Net Effects weighting. All have High Agriculture, Moderate Natural Cover and 	 Agricultur Agricultur 24% Natural Cover: 76% HIGH NET EFFECT RANKING: 9th Alternatives S5-3 and S5-4 have high net effects based on the Ecosystem Service Net Effects weighting. Both have Moderate Agriculture, High Natural Cover and High Cumulative 	 Agricultur e: 23% Natural Cover: 77% HIGH NET EFFECT RANKING: 9th Alternatives S5-3 and S5-4 have high net effects based on the Ecosystem Service Net Effects weighting. Both have Moderate Agriculture, High Natural Cover and High Cumulative ES 	 Representation Agricultu re: 39% Natural Cover: 61% MODERATE NET EFFECT RANKING: 1st Alternatives S5- 1, S5-2, S5-5, S5-6 all have moderate net effects based on the Ecosystem Service Net Effects weighting. All have High Agriculture, Moderate Natural Cover and 	ES Value Representation • Agricultu re: 40% • Natural Cover: 60% MODERATE NET EFFECT RANKING: 1 st Alternatives S5- 1, S5-2, S5-5, S5-6 all have moderate net effects based on the Ecosystem Service Net Effects weighting. All have High Agriculture, Moderate Natural Cover and	ES Value Representation • Agricultur e: 32% • Natural Cover: 68% HIGH NET EFFECT RANKING: 7 th Alternatives S5-7, S5-8, S5-9, S5-10 all have high net effects based on the Ecosystem Service Net Effects weighting. All have High Agriculture, Moderate Natural Cover and High Cumulative ES impacts All have	 Representation Agricultur e: 32% Natural Cover: 68% HIGH NET EFFECT RANKING: 7th Alternatives S5-7, S5-8, S5-9, S5- 10 all have high net effects based on the Ecosystem Service Net Effects weighting. All have High Agriculture, Moderate Natural Cover and High Cumulative ES impacts All have 	 Agricultu Agricultu re: 35% Natural Cover: 65% HIGH NET EFFECT RANKING: 5th Alternatives S5-7, S5-8, S5-9, S5-10 all have high net effects based on the Ecosystem Service Net Effects weighting. All have High Agriculture, Moderate 	ES Value Representation • Agricultur e: 36% • Natural Cover: 64% HIGH NET EFFECT RANKING: 5 th Alternatives S5-7, S5-8, S5-9, S5- 10 all have high net effects based on the Ecosystem Service Net Effects weighting. All have High Agriculture, Moderate Natural Cover and High Cumulative ES impacte All have	 Agricultur e: 29% Natural Cover: 71% HIGH NET EFFECT RANKING: 11th Alternatives S5- 11 and S5-12 have high net effects based on the Ecosystem Service Net Effects weighting. Both have high impacts to all land cover ES values: Agriculture, Natural Cover 	 Agricultu re: 29% Natural Cover: 71% HIGH NET EFFECT RANKING: 11th Alternatives S5- 11 and S5-12 have high net effects based on the Ecosystem Service Net Effects weighting. Both have high impacts to all land cover ES values: Agriculture

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
Factors					Summ	ary of Potential N	let Effects and Ra	nking				
	impacts. All have Moderate proportions of Natural Cover. Variations within the proportion of total ES contributed by Natural Cover define the primary difference between these alternatives. S5-1 and S5-2 have higher contributions to total ES value by Natural Cover, making them slightly less preferred than S5-5 and S5-6, but more preferred than other alternative in this Section.	impacts. All have Moderate proportions of Natural Cover. Variations within the proportion of total ES contributed by Natural Cover define the primary difference between these alternatives. S5-1 and S5-2 have higher contributions to total ES value by Natural Cover, making them slightly less preferred than S5-5 and S5-6, but more preferred than other alternative in this Section.	proportions of Natural Cover making them less preferred than alternatives with moderate proportions of Natural Cover.	have high proportions of Natural Cover making them less preferred than alternatives with moderate proportions of Natural Cover.	impacts. All have Moderate proportions of Natural Cover. Variations within the proportion of total ES contributed by Natural Cover define the primary difference between these alternatives. S5-5 and S5-6 have lower contributions to total ES value by Natural Cover, making them slightly more preferred than S5-1 and S5-2, and the overall (tied) preferred alternatives in this Section.	impacts. All have Moderate proportions of Natural Cover. Variations within the proportion of total ES contributed by Natural Cover define the primary difference between these alternatives. S5-5 and S5-6 have lower contributions to total ES value by Natural Cover, making them slightly more preferred than S5-1 and S5-2, and the overall (tied) preferred alternatives in this Section.	proportions of Natural Cover. Variations within the proportion of total ES contributed by Natural Cover define the primary difference between these alternatives. S5-7 and S5-8 have higher contributions to total ES value by Natural Cover, making them slightly less preferred than S5- 9 and S5-10.	proportions of Natural Cover. Variations within the proportion of total ES contributed by Natural Cover define the primary difference between these alternatives. S5-7 and S5-8 have higher contributions to total ES value by Natural Cover, making them slightly less preferred than S5-9 and S5-10.	Cumulative ES impacts. All have Moderate proportions of Natural Cover. Variations within the proportion of total ES contributed by Natural Cover define the primary difference between these alternatives. S5-9 and S5-10 have lower contributions to total ES value by Natural Cover, making them slightly more preferred than S5-7 and S5-8.	proportions of Natural Cover. Variations within the proportion of total ES contributed by Natural Cover define the primary difference between these alternatives. S5-9 and S5-10 have lower contributions to total ES value by Natural Cover, making them slightly more preferred than S5-7 and S5-8.	Both have high proportions of Natural Cover. With high impacts across all land components, alternatives 5-11 and 5-12 are the least preferred alternatives in this Section.	and Cumulative. Both have high proportions of Natural Cover. With high impacts across all land components, alternatives 5-11 and 5-12 are the least preferred alternatives in this Section.
1.4 Groundwa	ter											
1.4.1 Areas of Groundwater Recharge or Discharge	Low net effect to groundwate r recharge and discharge in approximat ely 14 ha of relatively high permeability surficial sediments. LOW NET EFFECT BANKING: 1st	Low net effect to groundwate r recharge and discharge in approximat ely 19 ha of relatively high permeability surficial sediments. LOW NET EFFECT RANKING: 1 st	Low net effect to groundwater recharge and discharge in approximatel y 22 ha of relatively high permeability surficial sediments. LOW NET EFFECT BANKING: 1 st	Low net effect to groundwater recharge and discharge in approximate ly 25 ha of relatively high permeability surficial sediments. LOW NET EFFECT BANKING: 1 st	Low net effect to groundwate r recharge and discharge in approximate ly 13 ha of relatively high permeability surficial sediments. LOW NET EFFECT BANKING: 1 st	Low net effect to groundwate r recharge and discharge in approximat ely 13 ha of relatively high permeability surficial sediments. LOW NET EFFECT BANKING: 1 st	Low net effect to groundwater recharge and discharge in approximatel y 15 ha of relatively high permeability surficial sediments. LOW NET EFFECT BANKING: 1 st	Low net effect to groundwater recharge and discharge in approximate ly 17 ha of relatively high permeability surficial sediments. LOW NET EFFECT BANKING: 1 st	Low net effect to groundwate r recharge and discharge in approximat ely 11 ha of relatively high permeabilit y surficial sediments. LOW NET EFFECT RANKING: 1 st	Low net effect to groundwater recharge and discharge in approximate ly 12 ha of relatively high permeability surficial sediments. LOW NET EFFECT BANKING: 1st	Low net effect to groundwater recharge and discharge in approximate ly 14 ha of relatively high permeability surficial sediments. LOW NET EFFECT BANKING: 1 st	 Low net effect to groundwater recharge and discharge in approximatel y 16 ha of relatively high permeability surficial sediments. LOW NET EFFECT
	Similar relatively low effect for all alternatives.	Similar relatively low effect for all alternatives.	Similar relatively low effect for all alternatives.	Similar relatively low effect for all alternatives.	Similar relatively low effect for all alternatives.	Similar relatively low effect for all alternatives.	Similar relatively low effect for all alternatives.	Similar relatively low effect for all alternatives.	Similar relatively low effect for all alternatives.	Similar relatively low effect for all alternatives.	Similar relatively low effect for all alternatives.	Similar relatively low effect for all alternatives.

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
Factors					Summ	ary of Potential N	Net Effects and Ra	nking				
1.4.2 Groundwater Source Areas and Wellhead Protection Areas	• No net effect to Groundwater Source Areas or Wellhead Protection Areas.	No net effect to Groundwater Source Areas or Wellhead Protection Areas.	 No net effect to Groundwater Source Areas or Wellhead Protection Areas. 	 No net effect to Groundwater Source Areas or Wellhead Protection Areas. 	 No net effect to Groundwater Source Areas or Wellhead Protection Areas. 	 No net effect to Groundwater Source Areas or Wellhead Protection Areas. 	 No net effect to Groundwater Source Areas or Wellhead Protection Areas. 	 No net effect to Groundwater Source Areas or Wellhead Protection Areas. 	• No net effect to Groundwater Source Areas or Wellhead Protection Areas.	 No net effect to Groundwater Source Areas or Wellhead Protection Areas. 	 No net effect to Groundwater Source Areas or Wellhead Protection Areas. 	 No net effect to Groundwater Source Areas or Wellhead Protection Areas.
	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT
	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
	No net effect to Groundwater Source Areas or Wellhead Protection Areas.	No net effect to Groundwater Source Areas or Wellhead Protection Areas.	No net effect to Groundwater Source Areas or Wellhead Protection Areas.	No net effect to Groundwater Source Areas or Wellhead Protection Areas.	No net effect to Groundwater Source Areas or Wellhead Protection Areas.	No net effect to Groundwater Source Areas or Wellhead Protection Areas.	No net effect to Groundwater Source Areas or Wellhead Protection Areas.	No net effect to Groundwater Source Areas or Wellhead Protection Areas.	No net effect to Groundwater Source Areas or Wellhead Protection Areas.	No net effect to Groundwater Source Areas or Wellhead Protection Areas.	No net effect to Groundwater Source Areas or Wellhead Protection Areas.	No net effect to Groundwater Source Areas or Wellhead Protection Areas.
1.4.3 Large Volume Wells	No net effect to large volume wells. NO NET EFFECT	No net effect to large volume wells. NO NET EFFECT	No net effect to large volume wells. NO NET EFFECT	No net effect to large volume wells. NO NET EFFECT	No net effect to large volume wells. NO NET EFFECT	No net effect to large volume wells. NO NET EFFECT	No net effect to large volume wells. NO NET EFFECT	No net effect to large volume wells. NO NET EFFECT	 No net effect to large volume wells. NO NET EFFECT 	No net effect to large volume wells. NO NET EFFECT	 No net effect to large volume wells. NO NET EFFECT 	No net effect to large volume wells. NO NET EFFECT
	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 th	RANKING: 1 st	RANKING: 1 st
	No presence of large volume well. No net effects	No presence of large volume well. No net effects	No presence of large volume well. No net effects	No presence of large volume well. No net effects	No presence of large volume well. No net effects	No presence of large volume well. No net effects	No presence of large volume well. No net effects	No presence of large volume well. No net effects	No presence of large volume well. No net effects	No presence of large volume well. No net effects	No presence of large volume well. No net effects	No presence of large volume well. No net effects
1.4.4 Private Wells	• Potential reduction in water quality to at least 4 shallow wells due to the use of road salt on new highway/inter change resulting in a reduction in water quality. At least 32 wells require decommissio ning.	• Potential reduction in water quality to at least 5 shallow wells due to the use of road salt on new highway/inter change resulting in a reduction in water quality. At least 35 wells require decommissio ning.	 Potential reduction in water quality to at least 9 shallow wells due to the use of road salt on new highway/interc hange resulting in a reduction in water quality. At least 36 wells require decommission ing. 	• Potential reduction in water quality to at least 8 shallow wells due to the use of road salt on new highway/inter change resulting in a reduction in water quality. At least 41 wells require decommissio ning.	• Potential reduction in water quality to at least 1 shallow well due to the use of road salt on new highway/inter change resulting in a reduction in water quality. At least 30 wells require decommissio ning.	• Potential reduction in water quality to at least 3 shallow wells due to the use of road salt on new highway/inter change resulting in a reduction in water quality. At least 31 wells require decommissio ning.	Potential reduction in water quality to 9 shallow wells due to the use of road salt on new highway/inter change resulting in a reduction in water quality. At least 29 wells require decommissio ning.	Potential reduction in water quality to 9 shallow wells due to the use of road salt on new highway/inter change resulting in a reduction in water quality. At least 44 wells require decommissio ning.	• Potential reduction in water quality to at least 1 shallow wells due to the use of road salt on new highway/inte rchange resulting in a reduction in water quality. At least 20 wells require	• Potential reduction in water quality to at least 3 shallow wells due to the use of road salt on new highway/inter change resulting in a reduction in water quality. At least 22 wells require decommissio ning.	• Potential reduction in water quality to at least 9 shallow wells due to the use of road salt on new highway/inter change resulting in a reduction in water quality. At least 21 wells require decommissio ning.	• Potential reduction in water quality to 9 shallow wells due to the use of road salt on new highway/interc hange resulting in a reduction in water quality. At least 37 wells require decommission ing.

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors					Summ	ary of Potential N	let Effects and Ra	nking				
	MODERATE NET EFFECT	MODERATE NET EFFECT	HIGH NET EFFECT	HIGH NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	HIGH NET EFFECT	decommissi oning.	LOW NET EFFECT	LOW NET EFFECT	MODERATE NET EFFECT
									LOW NET EFFECT			
	RANKING: 4 th	RANKING: 4 th	RANKING: 9 th	RANKING: 10 th	RANKING: 4 th	RANKING: 4 th	RANKING: 4 th	RANKING: 11 th	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 9 th
	Few shallow wells potentially affected and moderate number of wells to be removed.	Few shallow wells potentially affected and moderate number of wells to be removed.	Moderate number of shallow wells potentially affected and moderate number of wells to be removed.	Moderate number of shallow wells potentially affected and high number of wells to be removed.	Few shallow wells potentially affected and moderate number of wells to be removed.	Few shallow wells potentially affected and moderate number of wells to be removed.	Moderate number of shallow wells potentially affected moderate number of wells to be removed.	Moderate number of shallow wells potentially affected and high number of wells to be removed.	Few shallow wells potentially affected and low number of wells to be removed.	Few shallow wells potentially affected and low number of wells to be removed.	Moderate number of shallow wells potentially affected and low number of wells to be removed.	Moderate number of shallow wells potentially affected and moderate number of wells to be removed.
1.4.5 Groundwater -Dependent Commercial Enterprises	Low net effect to 9 potentially groundwater- dependent commercial enterprises. Potentially decommissio ning of 2 water supply wells. LOW NET EFFECT RANKING: 1 st Similar relatively low effects to	Low net effect to 9 potentially groundwater- dependent commercial enterprises. Potentially decommissio ning of 2 water supply wells. LOW NET EFFECT RANKING: 1 st Similar relatively low effects to	Low net effect to 7 potentially groundwater- dependent commercial enterprises. Potentially decommission ing of 2 water supply wells. LOW NET EFFECT RANKING: 1 st Similar relatively low effects to most	Low net effect to 7 potentially groundwater- dependent commercial enterprises. Potentially decommissio ning of 2 water supply wells. LOW NET EFFECT RANKING: 1 st Similar relatively low effects to	Low net effect to 7 potentially groundwater- dependent commercial enterprises. Potentially decommissio ning of 3 water supply wells. LOW NET EFFECT RANKING: 1 st Similar relatively low effects to	Low net effect to 6 potentially groundwater- dependent commercial enterprises. Potentially decommissio ning of 3 water supply wells. LOW NET EFFECT RANKING: 1 st Similar relatively low effects to	Low net effect to 8 potentially groundwater- dependent commercial enterprises. Potentially decommissio ning of 3 water supply wells. LOW NET EFFECT RANKING: 1 st Similar relatively low effects to	Low net effect to 6 potentially groundwater- dependent commercial enterprises. Potentially decommissio ning of 3 water supply wells. LOW NET EFFECT RANKING: 1 st Similar relatively low effects to	Low net effect to 6 potentially groundwater -dependent commercial enterprises. Potentially decommissi oning of 1 water supply wells. LOW NET EFFECT RANKING: 1 st Similar relatively low effects to	Low net effect to 6 potentially groundwater- dependent commercial enterprises. Potentially decommissio ning of 1 water supply wells. LOW NET EFFECT RANKING: 1 st Similar relatively low effects to	Low net effect to 7 potentially groundwater- dependent commercial enterprises. Potentially decommissio ning of 1 water supply wells. LOW NET EFFECT RANKING: 1 st Similar relatively low effects to	Low net effect to 6 potentially groundwater- dependent commercial enterprises. Potentially decommissio ning of 3 water supply wells. LOW NET EFFECT RANKING: 1 st Similar relatively low effects to
	most alternatives.	most alternatives.	alternatives.	most alternatives.	most alternatives.	most alternatives.	most alternatives.	most alternatives.	most alternatives.	most alternatives.	most alternatives.	most alternatives.
1.4.6 Groundwater -Sensitive Ecosystems	Moderate net effect to 0.03 ha of groundwater- sensitive ecosystems due to the presences of PSW, pond, wetland headwaters and watercourses within alternative.	Moderate net effect to 0.44 ha groundwater- sensitive ecosystems due to the presences of PSW, pond, wetland headwaters and watercourses within alternative.	Moderate net effect to 1.42 ha groundwater- sensitive ecosystems due to the presences of PSW, pond, wetland headwaters and watercourses within alternative.	Moderate net effect to 2.57 ha groundwater- sensitive ecosystems due to the presences of PSW, pond, wetland headwaters and watercourses within alternative.	Moderate net effect to 2.45 ha groundwater- sensitive ecosystems due to the presences of PSW, pond, wetland headwaters and watercourses within alternative.	Moderate net effect to 2.45 ha groundwater- sensitive ecosystems due to the presences of PSW, pond, wetland headwaters and watercourses within alternative.	Moderate net effect to 3.18 ha groundwater- sensitive ecosystems due to the presences of PSW, pond, wetland headwaters and watercourses within alternative.	Moderate net effect to 3.8 ha groundwater- sensitive ecosystems due to the presences of PSW, pond, wetland headwaters and watercourses within alternative.	Moderate net effect to 0.40 ha groundwater- sensitive ecosystems due to the presences of PSW, pond, wetland headwaters and watercourses within alternative.	Moderate net effect to 0.40 ha groundwater- sensitive ecosystems due to the presences of PSW, pond, wetland headwaters and watercourses within alternative.	Moderate net effect to 0.40 ha groundwater- sensitive ecosystems due to the presences of PSW, pond, wetland headwaters and watercourses within alternative.	Moderate net effect to 0.40 ha groundwater- sensitive ecosystems due to the presences of PSW, pond, wetland headwaters and watercourses within alternative.
	NET EFFECT	NET EFFECT	EFFECT	EFFECT	NET EFFECT	NET EFFECT	EFFECT	EFFECT	NET EFFECT	EFFECT	EFFECT	

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
Factors					Summ	ary of Potential N	Net Effects and Ra	nking				
												MODERATE NET EFFECT
	RANKING: 1 st	RANKING: 2 nd	RANKING: 7 th	RANKING: 8 th	RANKING: 9 th	RANKING: 9 th	RANKING: 9 th	RANKING: 9 th	RANKING: 2 nd	RANKING: 2 nd	RANKING: 2 nd	RANKING: 2 nd
	Lowest area coverage of PSW and unclassified wetlands.	Similar relative moderate effects to alternatives S5-9 to S5-12.	Third highest total area coverage for wetlands.	Second highest total area coverage for wetlands and highest number of affected ponds.	Highest relative area coverage of PSW and unevaluated wetlands.	Highest relative area coverage of PSW and unevaluated wetlands.	Highest relative area coverage of PSW and unevaluated wetlands.	Highest relative area coverage of PSW and unevaluated wetlands.	Similar relative moderate effects to alternatives S5-2 and S5-10 to S5-12.	Similar relative moderate effects to alternatives S5-2, S5-9, S5- 11 and S5-12.	Similar relative moderate effects to alternatives S5-2, S5-9, S5- 10 and S5-11.	Similar relative moderate effects to alternatives S5-2 and S5-9 to S5-11.
1.5 Surface V	/ater											
1.5.1 Watershed / Subwatershe d Drainage Features / Patterns	The Hurontario St. portion of the alternative is a significant section and will require more interventions along the creek to maintain buffers and ensure fluvial function.	Although positioned slightly to the south of S5- 1, the Hurontario St. portion of this alternative remains a significant section and will require more interventions along the creek to maintain buffers and ensure fluvial function.	 Although positioned slightly to the south of S5-1, the Hurontario St. portion of this alternative remains a significant section and will require more interventions along the creek to maintain buffers and ensure fluvial function. The main west/east alignment being south of S5-1 and S5-2 means the crossing of Etobicoke Creek and tributaries is in sections where meandering is more significant, requiring larger spans. 	 Although positioned slightly to the south of S5- 1, the Hurontario St. portion of this alternative remains a significant section and will require more interventions along the creek to maintain buffers and ensure fluvial function. The main west/east alignment being south of S5-1, S5-2 and S5-3 means the crossing of Etobicoke Creek and tributaries is in sections where meandering is more significant, requiring larger spans. The parallel section along the Dixie 	Crossing a significant Redside Dace habitat watercourse section (along north/south section from the Highway 410 interchange) has the greatest impact from a fluvial perspective due to SAR geomorphic guidelines.	Crossing a significant Redside Dace habitat watercourse section (along north/south section from the Highway 410 interchange) has the greatest impact from a fluvial perspective due to SAR geomorphic guidelines.	 Crossing a significant Redside Dace habitat watercourse section (along north/south section from the Highway 410 interchange) has the greatest impact from a fluvial perspective due to SAR geomorphic guidelines. The additional crossing south of Old School Road adds to the complexity of the crossings and is an additional cost consideration. 	 Crossing a significant Redside Dace habitat watercourse section (along north/south section from the Highway 410 interchange) has the greatest impact from a fluvial perspective due to SAR geomorphic guidelines. The additional crossing south of Old School Road adds to the complexity of the crossings and is an additional cost consideration . 	Crossing a significant Redside Dace watercourse section (along north/south section from the Highway 410 interchange) has the greatest impact from a fluvial perspective due to SAR geomorphic guidelines.	Crossing a significant Redside Dace habitat watercourse section (along north/south section from the Highway 410 interchange) has the greatest impact from a fluvial perspective due to SAR geomorphic guidelines.	 Crossing a significant Redside Dace habitat watercourse section (along north/south section from the Highway 410 interchange) has the greatest impact from a fluvial perspective due to SAR geomorphic guidelines. The additional crossing south of Old School Road adds to the complexity of the crossings and is an additional cost consideration . 	 Crossing a significant Redside Dace habitat watercourse section (along north/south section from the Highway 410 interchange) has the greatest impact from a fluvial perspective due to SAR geomorphic guidelines. The additional crossing south of Old School Road adds to the complexity of the crossings and is an additional cost consideratio n.

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors					Summ	ary of Potential N	let Effects and Ra	nking				
	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	Road interchange may need realignment but this could be an enhancement , therefore positive. MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET		MODERATE NET EFFECT	MODERATE NET		MODERATE NET EFFECT
							EFFECT	EFFECT		EFFECI	EFFECT	
	RANKING: 4 th	RANKING: 1 st	RANKING: 2 nd	RANKING: 3rd	RANKING: 5 th	RANKING: 6 th	RANKING: 11 th	RANKING: 12 th	RANKING: 7 th	RANKING: 8 th	RANKING: 9 th	RANKING: 10 th
	Hurontario portion high impact	Least overall impact	West-east portion middle alignment - crossing of Etobicoke Creek and tributaries is in sections where meandering is more significant	West-east portion south alignment - the crossing of Etobicoke Creek and tributaries is in sections where meandering is more significant	Redside dace crossing requirements	Redside dace crossing requirements	Old School Road realignment impacts. Redside dace crossing requirements	Old School Road realignment impacts. Redside dace crossing requirements	Northern alignment- crossings are in areas where the watercourses are slightly less sinuous. Redside dace crossing requirements	Northern alignment - crossings are in areas where the watercourses are slightly less sinuous; Hurontario impacts; Redside dace crossing requirements.	Middle alignment watercourses transitioning to more sinuous as in southern alignment. Redside dace crossing requirements	Southern alignment - crossings are in areas where the watercourses are more sinuous. Redside dace crossing requirements
1.5.2 Surface Water Quality and Quantity	 Introduces 89 ha impervious area including 73 ha to Etobicoke Creek and 16 ha to West Humber River; The alternative along Highway 10 is parallel to the main branch of Etobicoke Creek results in potential realignment of the regulated watercourse 	 Introduces 90 ha impervious area including 64 ha to Etobicoke Creek and 26 ha to West Humber River The alternative along Highway 10 parallel to the main branch of Etobicoke Creek results in potential realignment of the regulated watercourse 	 Introduces 87 ha impervious area including 62 ha to Etobicoke Creek and 25 ha to West Humber River The alternative along Highway 10 parallel to the main branch of Etobicoke Creek results in potential realignment of the regulated watercourse and potential encroachment of the regulated floodplain; 	 Introduces 88 ha impervious area including 62 ha to Etobicoke Creek and 26 ha to West Humber River The alternative along Highway 10 parallel to the main branch of Etobicoke Creek results in potential realignment of the regulated watercourse and potential encroachmen t of the 	 Introduces 92 ha impervious area including 38 ha to Etobicoke Creek and 53 ha to West Humber River Medium impacts on quality through direct and indirect discharges of contaminated and sediment- laden run-off, thermal impact on the coldwater system. 	 Introduces 93 ha impervious area including 39 ha to Etobicoke Creek and 53 ha to West Humber River Medium impacts on quality through direct and indirect discharges of contaminate d and sediment- laden run-off, thermal impact on 	 Introduces 88 ha impervious area including 39 ha to Etobicoke Creek and 49 ha to West Humber River Medium impacts on quality through direct and indirect discharges of contaminated and sediment- laden run-off, thermal impact on the coldwater system. Medium impacts on hydrology due to changes in 	 Introduces 88 ha impervious area including 38 ha to Etobicoke Creek and 49 ha to West Humber River Medium impacts on quality through direct and indirect discharges of contaminated and sediment- laden run-off, thermal impact on the coldwater system. 	 Introduces 87 ha impervious area including 35 ha to Etobicoke Creek and 52 ha to West Humber River Medium impacts on quality through direct and indirect discharges of contaminate d and sediment- laden run- off, thermal impact on 	 Introduces 89 ha impervious area including 36 ha to Etobicoke Creek and 52 ha to West Humber River Medium impacts on quality through direct and indirect discharges of contaminated and sediment- laden run-off, thermal impact on the coldwater system. Medium impacts on 	 Introduces 85 ha impervious area including 36 ha to Etobicoke Creek and 48 ha to West Humber River Medium impacts on quality through direct and indirect discharges of contaminated and sediment- laden run-off, thermal impact on the coldwater system. 	 Introduces 82 ha impervious area including 35 ha to Etobicoke Creek and 47 ha to West Humber River; Medium impacts on quality through direct and indirect discharges of contaminate d and sediment- laden run-off, thermal impact on

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors					Summ	ary of Potential N	let Effects and Ra	nking				
	 and potential encroachme nt of the regulated floodplain; South end of alternative along Highway 10 extending to the existing urban development area; High impacts on quality through direct and indirect discharges of contaminate d and sediment- laden run-off, thermal impact on the coldwater system. High impacts on hydrology due to changes in ground permeability. High impacts on modifications to surface drainage patterns and alterations of water bodies HIGH NET EFFECT 	 and potential encroachme nt of the regulated floodplain; South end of alternative along Highway 10 extending to the existing urban development area; High impacts on quality through direct and indirect discharges of contaminate d and sediment-laden run-off, thermal impact on the coldwater system. High impacts on hydrology due to changes in ground permeability. High impacts on modifications to surface drainage patterns and alterations of water bodies 	 South end of alternative along Highway 10 extending to the existing urban development area; High impacts on quality through direct and indirect discharges of contaminated and sediment-laden run-off, thermal impact on the coldwater system. High impacts on hydrology due to changes in ground permeability. High impacts on modifications to surface drainage patterns and alterations of water bodies 	 regulated floodplain; South end of alternative along Highway 10 extending to the existing urban development area; High effects on quality through direct and indirect discharges of contaminated and sediment-laden run-off, thermal impact on the coldwater system. High impacts on hydrology due to changes in ground permeability. High impacts on modifications to surface drainage patterns and alterations of water bodies 	 Medium impacts on hydrology due to changes in ground permeability. Medium impacts on modifications to surface drainage patterns and alterations of water bodies MODERATE NET EFFECT 	 the coldwater system. Medium impacts on hydrology due to changes in ground permeability. Medium impacts on modifications to surface drainage patterns and alterations of water bodies 	ground permeability. • Medium impacts on modifications to surface drainage patterns and alterations of water bodies	 Medium impacts on hydrology due to changes in ground permeability. Medium impacts on modifications to surface drainage patterns and alterations of water bodies 	 the coldwater system. Medium impacts on hydrology due to changes in ground permeability. Medium impacts on modification s to surface drainage patterns and alterations of water bodies MODERATE NET EFFECT 	 hydrology due to changes in ground permeability. Medium impacts on modifications to surface drainage patterns and alterations of water bodies 	 Medium impacts on hydrology due to changes in ground permeability. Medium impacts on modifications to surface drainage patterns and alterations of water bodies 	 the coldwater system. Medium impacts on hydrology due to changes in ground permeability. Medium impacts on modifications to surface drainage patterns and alterations of water bodies
		HIGH NET	EFFECT	EFFECT		NET EFFECT		MODERATE NET		MODERATE NET EFFECT	MODERATE NET	NET EFFECT
								EFFECT			EFFECT	
	RANKING: 9 th	RANKING: 9 th	RANKING: 9 th	RANKING: 12 th	RANKING: 1 st	RANKING: 1 st	RANKING: 5 th	RANKING: 7 th	RANKING: 1 st	RANKING: 1 st	RANKING: 5 th	RANKING: 7 th
	Encroaching floodplain;	Encroaching floodplain;	Encroaching floodplain;		Less impact on regulated	Less impact on regulated	Medium impact on regulated	Medium impact on regulated	Less impact on regulated	Less impact on regulated	Medium impact on regulated	Medium impact on regulated

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors					Summ	ary of Potential N	let Effects and Ra	nking				
	Discharging to urban area.	Discharging to urban area.	Discharging to urban area.	Significantly encroaching floodplain; Discharging to urban area.	watercourse and floodplain	watercourse and floodplain	watercourse and floodplain	watercourse and floodplain	watercourse and floodplain	watercourse and floodplain	watercourse and floodplain.	watercourse and floodplain.
1.6 Air Quality	and Climate Chang	ge										
1.6.1 Local and regional air quality impacts; greenhouse gas emissions	Some residences on Kennedy Rd., Heart Lake Rd., Hurontario St., and Dixie Rd. are anticipated to be close enough to experience a change in air quality. Link to Hwy 410 is adjacent to a residential subdivision. However, pollutants will remain within acceptable levels.	 Some residences on Old School Rd., Heart Lake Rd., Hurontario St., and Dixie Rd. are anticipated to be close enough to experience a change in air quality. Link to Hwy 410 is adjacent to a residential subdivision. However, pollutants will remain within acceptable levels. 	 Some residences on Old School Rd., Heart Lake Rd., Hurontario St., and Dixie Rd. are anticipated to be close enough to experience a change in air quality. Link to Hwy 410 is adjacent to a residential subdivision. However, pollutants will remain within acceptable levels. 	 Several residences along Old School Rd., and some on Heart Lake Rd., Hurontario St., and Dixie Rd. are anticipated to be close enough to experience a change in air quality. Link to Hwy 410 is adjacent to a residential subdivision. However, pollutants will remain within acceptable levels. 	Some residences on Kennedy Rd., Heart Lake Rd., Hurontario St., and Dixie Rd. are anticipated to be close enough to experience a change in air quality. Link to Hwy 410 passes near a residential subdivision. However, pollutants will remain within acceptable levels.	Some residences on Old School Rd., Heart Lake Rd., Hurontario St., and Dixie Rd. are anticipated to be close enough to experience a change in air quality. Link to Hwy 410 passes near a residential subdivision. However, pollutants will remain within acceptable levels.	Some residences on Old School Rd., Heart Lake Rd., Hurontario St., and Dixie Rd. are anticipated to be close enough to experience a change in air quality. Link to Hwy 410 passes near a residential subdivision. However, pollutants will remain within acceptable levels.	 Several residences along Old School Rd., and some on Heart Lake Rd., Hurontario St., and Dixie Rd. are anticipated to be close enough to experience a change in air quality. Link to Hwy 410 passes near a residential subdivision. However, pollutants will remain within acceptable levels. 	• Some residences on Kennedy Rd., Heart Lake Rd., Hurontario St., and Dixie Rd. are anticipated to be close enough to experience a change in air quality.	Some residences on Old School Rd., Heart Lake Rd., Hurontario St., and Dixie Rd. are anticipated to be close enough to experience a change in air quality.	Some residences on Old School Rd., Heart Lake Rd., Hurontario St., and Dixie Rd. are anticipated to be close enough to experience a change in air quality.	• Several residences along Old School Rd., and some on Heart Lake Rd., Hurontario St., and Dixie Rd. are anticipated to be close enough to experience a change in air quality.
	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT
	RANKING: 9 th	RANKING: 9 th	RANKING: 9 th	RANKING: 9 th	RANKING: 5 th	RANKING: 5 th	RANKING: 5 th	RANKING: 5 th	RANKING: 2 nd	RANKING: 2 nd	RANKING: 2 nd	RANKING: 1 st
	Link to Hwy 410 passes in close proximity to residential subdivision.	Link to Hwy 410 passes in close proximity to residential subdivision.	Link to Hwy 410 passes in close proximity to residential subdivision.	Link to Hwy 410 passes in close proximity to residential subdivision, and the corridor also passes close to several residences along Old School Rd.	Link to Hwy 410 passes in close proximity to residential subdivision.	Link to Hwy 410 passes in close proximity to residential subdivision.	Link to Hwy 410 passes in close proximity to residential subdivision.	Link to Hwy 410 passes in close proximity to residential subdivision, and the corridor also passes close to several residences along Old School Rd.	Unlike alternatives S5-1 through S5-8, the link to Hwy 410 is well removed from the residential subdivision.	Unlike alternatives S5-1 through S5-8, the link to Hwy 410 is well removed from the residential subdivision.	Unlike alternatives S5-1 through S5-8, the link to Hwy 410 is well removed from the residential subdivision. Fewest affected local residences.	Link to Hwy 410 is well removed from the residential subdivision, but the corridor passes close to several residences along Old School Rd. This alternative contributes to the shortest overall corridor length, thus reducing the

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
Factors					Summ	nary of Potential N	Net Effects and Ra	nking				
												contribution to regional emissions of GHG and air pollutants. However, it is only slightly shorter than S5- 9, S5-10 and S5- 11.
2.0 Land Use /	Socio-Economic E	Environment										
2.1 Land Use I						- ··		-	–	- <i>a</i> - - - - - -		
2.1.1 Indigenous Land Claims	Treaties including Nanfan (1701), Treaty 3 (1795), Treaty 3.75 (1795), Treaty 13 (1805), Treaty 13A (1805), Treaty 18, 1818, Treaty 19 (1918), Williams Treaty (1923), as well as various Assertions and Claims. Additional Indigenous Assertions and/or Claims may be filed and/or proven at any time.	Treaties including Nanfan (1701), Treaty 3 (1795), Treaty 3.75 (1795), Treaty 13 (1805), Treaty 13A (1805), Treaty 18, 1818, Treaty 19 (1918), Williams Treaty (1923), as well as various Assertions and Claims. Additional Indigenous Assertions and/or Claims may be filed and/or proven at any time.	Treaties including Nanfan (1701), Treaty 3 (1795), Treaty 3.75 (1795), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 18, 1818, Treaty 19 (1918), Williams Treaty (1923), as well as various Assertions and Claims. Additional Indigenous Assertions and/or Claims may be filed and/or proven at any time.	Treaties including Nanfan (1701), Treaty 3 (1795), Treaty 3.75 (1795), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1903), Treaty 13 (19	Treaties including Nanfan (1701), Treaty 3 (1795), Treaty 3.75 (1795), Treaty 13 (1805), Treaty 13A (1805), Treaty 18, 1818, Treaty 19 (1918), Williams Treaty (1923), as well as various Assertions and Claims. Additional Indigenous Assertions and/or Claims may be filed and/or proven at any time.	Treaties including Nanfan (1701), Treaty 3 (1795), Treaty 3.75 (1795), Treaty 13 (1805), Treaty 13A (1805), Treaty 18, 1818, Treaty 19 (1918), Williams Treaty (1923), as well as various Assertions and Claims. Additional Indigenous Assertions and/or Claims may be filed and/or proven at any time.	Treaties including Nanfan (1701), Treaty 3 (1795), Treaty 3.75 (1795), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1905), Treaty 13 (19	Treaties including Nanfan (1701), Treaty 3 (1795), Treaty 3.75 (1795), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1903), Treaty 13 (1923), as well as various Assertions and Claims. Additional Indigenous Assertions and/or Claims may be filed and/or proven at any time.	Treaties including Nanfan (1701), Treaty 3 (1795), Treaty 3.75 (1795), Treaty 13 (1805), Treaty 13A (1805), Treaty 18, 1818, Treaty 19 (1918), Williams Treaty (1923), as well as various Assertions and Claims. Additional Indigenous Assertions and/or Claims may be filed and/or proven at any time.	Treaties including Nanfan (1701), Treaty 3 (1795), Treaty 3.75 (1795), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1903), Treaty 13 (19	Treaties including Nanfan (1701), Treaty 3 (1795), Treaty 3.75 (1795), Treaty 13 (1805), Treaty 13A (1805), Treaty 18, 1818, Treaty 19 (1918), Williams Treaty (1923), as well as various Assertions and Claims. Additional Indigenous Assertions and/or Claims may be filed and/or proven at any time.	Treaties including Nanfan (1701), Treaty 3 (1795), Treaty 3.75 (1795), Treaty 13 (1805), Treaty 13A (1805), Treaty 18, 1818, Treaty 19 (1918), Williams Treaty (1923), as well as various Assertions and Claims. Additional Indigenous Assertions and/or Claims may be filed and/or proven at any time.
	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT
	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.
2.1.2 Provincial / Federal Land Use Planning Policies / Goals / Objectives	 Impacts PPS agricultural, housing and employment policies Impacts 227 hectares of 	 Impacts PPS agricultural, housing and employment policies 	 Impacts PPS agricultural, housing and employment policies Impacts 216 hectares of 	 Impacts PPS agricultural, housing and employment policies Impacts 218 hectares of 	 Impacts PPS agricultural, public space and recreation, housing and 	 Impacts PPS agricultural, public space and recreation, housing and 	 Impacts PPS agricultural, public space and recreation, housing and 	Impacts PPS agricultural, residential and employment policies	 Impacts PPS agricultural and employment policies Impacts 227 hectares of 	 Impacts PPS agricultural and employment policies Impacts 230 hectares of 	 Impacts PPS agricultural and employment policies Impacts 209 hectares of 	 Impacts PPS agricultural and employment policies Impacts 209 hectares of

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors					Summ	nary of Potential N	Net Effects and Ra	inking				
	Agricultural lands. Impacts 5 hectares of employment lands. Impacts 16 hectares of future residential lands. Impacts 16 hectares of Greenbelt lands Protected Countryside- Natural Heritage System. Consistent with the Growth Plan policies. Highest impacts to Greenbelt Agricultural System.	 Impacts 230 hectares of Agricultural lands. Impacts 5 hectares of employment lands. Impacts 16 hectares of future residential lands. Impacts 16 hectares of Greenbelt lands Protected Countryside -Natural Heritage System. Consistent with the Growth Plan policies. Highest impacts to Greenbelt Agricultural System. 	Agricultural lands. Impacts 5 hectares of employment lands. Impacts 17 hectares of future residential lands. Impacts 15 hectares of Greenbelt lands Protected Countryside- Natural Heritage System. Consistent with the Growth Plan policies. Impacts to Greenbelt Agricultural System.	Agricultural lands. Impacts 5 hectares of employment lands. Impacts 17 hectares of future residential lands. Impacts 15 hectares of Greenbelt lands Protected Countryside- Natural Heritage System. Consistent with the Growth Plan policies. Impacts to Greenbelt Agricultural System. Could create long term rural-urban edge.	 employment policies Impacts 239 hectares of Agricultural lands. Impacts 37 hectares of employment lands. Impacts 3 hectares of future residential lands. Impacts 7 hectares of environment al policy area. Impacts 17 hectares of Greenbelt lands Protected Countryside- Natural Heritage System. Consistent with the Growth Plan policies. Higher impacts to Greenbelt 	 employment policies Impacts 242 hectares of Agricultural lands. Impacts 37 hectares of employment lands. Impacts 3 hectares of future residential lands. Impacts 7 hectares of environment al policy area. Impacts 17 hectares of Greenbelt lands Protected Countryside- Natural Heritage System. Consistent with the Growth Plan policies. Impacts to Greenbelt applicy 	 employment policies Impacts 228 hectares of Agricultural lands. Impacts 37 hectares of employment lands. Impacts 3 hectares of future residential lands. Impacts 7 hectares of environmental policy area. Impacts 17 hectares of Greenbelt lands Protected Countryside- Natural Heritage System. Consistent with the Growth Plan policies. Impacts to Greenbelt Agricultural System. 	 Impacts 226 hectares of Agricultural lands. Impacts 37 hectares of employment lands. Impacts 3 hectares of future residential lands. Impacts 16 hectares of Greenbelt lands Protected Countryside- Natural Heritage System. Consistent with the Growth Plan policies. Lower impacts to Greenbelt Agricultural System. Could create long term urban-rural edge. 	Agricultural lands. Impacts 38 hectares of employment lands. Impacts 10 hectares of Greenbelt lands Protected Countryside- Natural Heritage System. Consistent with the Growth Plan policies. High impacts to Greenbelt Agricultural System.	Agricultural lands. Impacts 38 hectares of employment lands. Impacts 10 hectares of Greenbelt lands Protected Countryside- Natural Heritage System. Consistent with the Growth Plan policies. High impacts to Greenbelt Agricultural System.	Agricultural lands. Impacts 38 hectares of employment lands. Impacts 10 hectares of Greenbelt lands Protected Countryside- Natural Heritage System. Consistent with the Growth Plan policies. Impacts to Greenbelt Agricultural System.	Agricultural lands. Impacts 38 hectares of employment lands. Impacts 10 hectares of Greenbelt lands Protected Countryside- Natural Heritage System. Consistent with the Growth Plan policies. Lowest impacts to Greenbelt Agricultural System.
	HIGH NET EFFECT	HIGH NET EFFECT	HIGH NET EFFECT	MODERATE NET EFFECT	System, than S5-4. MODERATE NET EFFECT	HIGH NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	LOW NET EFFECT	LOW NET EFFECT
	RANKING:11 th	RANKING: 11 th	RANKING: 10 th	RANKING: 5 th	RANKING: 7 th	RANKING: 9 th	RANKING: 7 th	RANKING: 5 th	RANKING: 3rd	RANKING: 3rd	RANKING: 2 nd	RANKING: 1 st
	High impact on complete community because alternative bisects Mayfield West planned urban settlement area.	High impact on complete community because alternative bisects Mayfield West planned urban settlement area.	High impact on complete community because alternative bisects Mayfield West planned urban settlement area.	High impact on complete community because alternative bisects Mayfield West planned urban settlement area.	Adjacent to existing and planned residential development.	Adjacent to existing and planned residential development.	Adjacent to existing and planned residential development.	Adjacent to existing and planned residential development.	Impact on Mayfield West planned employment lands.	Impact on Mayfield West planned employment lands.	Impact on Mayfield West planned employment lands.	Impact on Mayfield West planned employment lands.

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors					Summ	ary of Potential N	let Effects and Ra	nking				
2.1.3 Municipal (local and regional) Land Use Planning Policies / Goals / Objectives	 Impacts Mayfield West Residential Policy Area. Impacts 73.7 hectares of Mayfield West Secondary Plan (ROPA 29): future urban developmen t to include a mix of residential and employment and developmen t with general commercial. Impacts 227 hectares of Agricultural lands. Impacts 5 hectares of employment lands. Impacts 5 hectares of employment lands. Impacts 5 hectares of employment lands. Impacts 16 hectares of future residential lands. Impacts 68 hectares of future urban developmen t. 	 Impacts Mayfield West Residential Policy Area. Impacts 76.5 hectares of Mayfield West Secondary Plan (ROPA 29): future urban developmen t to include a mix of residential and employment and developmen t with general commercial. Impacts 230 hectares of Agricultural lands. Impacts 5 hectares of employment lands. Impacts 5 hectares of employment lands. Impacts 16 hectares of future residential lands. Impacts 70 hectares of future urban developmen t. 	 Impacts Mayfield West Residential Policy Area. Impacts 85.4 hectares of Mayfield West Secondary Plan (ROPA 29): future urban development to include a mix of residential and employment and development with general commercial. Impacts 216 hectares of Agricultural lands. Impacts 5 hectares of employment lands. Impacts 5 hectares of employment lands. Impacts 17 hectares of future residential lands. Impacts 79 hectares of future urban development. 	 Impacts Mayfield West Residential Policy Area. Impacts 85.4 hectares of Mayfield West Secondary Plan (ROPA 29): future urban development to include a mix of residential and employment and development with general commercial. Impacts 218 hectares of Agricultural lands. Impacts 5 hectares of employment lands. Impacts 17 hectares of future residential lands. Impacts 17 hectares of future residential lands. Impacts 79 hectares of future urban development 	 Impacts Mayfield West Industrial Park; 37 hectares. Impacts 239 hectares of Agricultural lands. Impacts 3 hectares of future residential lands. Impacts 86 hectares of future urban development. Impacts 7 hectares of environment al policy area. 	 Impacts Mayfield West Industrial Park; 37 hectares. Impacts 242 hectares of Agricultural lands. Impacts 3 hectares of future residential lands. Impacts 86 hectares of future urban developmen t. Impacts 7 hectares of environment al policy area. 	 Impacts Mayfield West Industrial Park; 37 hectares. Impacts 228 hectares of Agricultural lands. Impacts 3 hectares of future residential lands. Impacts 86 hectares of future urban development . Impacts 7 hectares of environment al policy area. 	 Impacts Mayfield West Industrial Park; 37 hectares. Impacts 226 hectares of Agricultural lands. Impacts 3 hectares of future residential lands. Impacts 93 hectares of future urban development 	 Impacts Mayfield West Industrial Park; 38 hectares. Impacts 227 hectares of Agricultural lands. Impacts 75 hectares of future urban developmen t. 	 Impacts Mayfield West Industrial Park; 38 hectares of employment lands. Impacts 230 hectares of Agricultural lands. Impacts 75 hectares of future urban development. 	 Impacts Mayfield West Industrial Park; 38 hectares. Impacts 209 hectares of Agricultural lands. Impacts 80 hectares of future urban development 	 Impacts Mayfield West Industrial Park; 38 hectares. Impacts 209 hectares of Agricultural lands. Impacts 80 hectares of future urban developmen t
	HIGH NET EFFECT	HIGH NET EFFECT	HIGH NET EFFECT	HIGH NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT
	RANKING: 9 th	RANKING: 9 th	RANKING: 9 th	RANKING: 9 th	RANKING: 5 th	RANKING: 5 th	RANKING: 5 th	RANKING: 5 th	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
	High impact on Mayfield West Secondary Plan	High impact on Mayfield West Secondary Plan	High impact on Mayfield West Secondary Plan	High impact on Mayfield West Secondary Plan	Moderate impact on Mayfield West	Moderate impact on Mayfield West	Moderate impact on Mayfield West	Moderate impact on Mayfield West	Least impact on Mayfield West planned	Least impact on Mayfield West planned	Least impact on Mayfield West planned	Least impact on Mayfield West planned

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
Factors					Summ	ary of Potential N	Net Effects and Ra	nking				
	because alternative bisects the planned community.	because alternative bisects the planned community.	because alternative bisects the planned community.	because alternative bisects the planned community.	Employment lands.	Employment lands.	Employment lands.	Employment lands.	community and Mayfield West Employment lands.	community and Mayfield West Employment lands.	community and Mayfield West Employment lands	community and Mayfield West Employment lands.
2.1.4 Development Objectives of Private Property Owners	 12.4 hectares of proposed Argo Subdivision impacted. Impacts potential developmen t in 73.7 hectares of the Mayfield West Secondary Plan. HIGH NET EFFECT RANKING: 9th Impacts a high amount of land for potential developers in Argo lands and Mayfield West Secondary Plan. 	 13.4 hectares of proposed Argo Subdivision impacted. Impacts potential developmen t in 76.5 hectares of the Mayfield West Secondary Plan. HIGH NET EFFECT RANKING: 9th Impacts a high amount of land for potential developers in Argo lands and Mayfield West Secondary Plan. 	 18.6 hectares of proposed Argo Subdivision impacted. Impacts potential development in 85.4 hectares of the Mayfield West Secondary Plan. HIGH NET EFFECT RANKING: 9th Impacts a high amount of land for potential developers in Argo lands and Mayfield West Secondary Plan. 	 18.6 hectares of proposed Argo Subdivision impacted. Impacts potential development in 85.4 hectares of the Mayfield West Secondary Plan. HIGH NET EFFECT RANKING: 9th Impacts a high amount of land for potential developers in Argo lands and Mayfield West Secondary Plan. 	 Impacts 2012-096 application in the Mayfield West Industrial Employment lands (5.8 hectares). Impacts Starbrite Holdings application (4.6 hectares). LOW NET EFFECT RANKING: 1st Impacts a portion of 1 application in the Mayfield West Industrial Employment lands and portion of the Starbrite application west of Hwy 410. 	 Impacts 2012-096 application in the Mayfield West Industrial Employment lands (5.8 hectares). Impacts Starbrite Holdings application (4.6 hectares). LOW NET EFFECT RANKING: 1st Impacts a portion of 1 application in the Mayfield West Industrial Employment lands and portion of the Starbrite application west of Hwy 410. 	 Impacts 2012-096 application in the Mayfield West Industrial Employment Iands (5.8 hectares). Impacts Starbrite Holdings application (4.6 hectares). LOW NET EFFECT RANKING: 1st Impacts a portion of 1 application in the Mayfield West Industrial Employment Iands and portion of the Starbrite application west of Hwy 410. 	 Impacts 2012-096 application in the Mayfield West Industrial Employment lands (5.8 hectares). Impacts Starbrite Holdings application (4.6 hectares). LOW NET EFFECT RANKING: 1st Impacts a portion of 1 application in the Mayfield West Industrial Employment lands and portion of the Starbrite application west of Hwy 410. 	 Impacts 2012-096 & 2012-011 application in the Mayfield West Industrial Employmen t lands (31.5 hectares). Impacts Starbrite Holdings (6.8 hectares). MODERATE NET EFFECT RANKING: 5th Impacts a portion of 2 applications in the Mayfield West Industrial Employment lands and a portion of the Starbrite application west of Hwy 410 	 Impacts 2012-096 & 2012-011 application in the Mayfield West Industrial Employment lands (31.5 hectares). Impacts Starbrite Holdings (6.8 hectares). MODERATE NET EFFECT RANKING: 5th Impacts a portion of 2 applications in the Mayfield West Industrial Employment lands and a portion of the Starbrite application west of Hwy 410. 	 Impacts 2012-096 & 2012-011 application in the Mayfield West Industrial Employment lands (31.5 hectares). Impacts Starbrite Holdings (6.8 hectares). MODERATE NET EFFECT RANKING: 5th Impacts a portion of 2 applications in the Mayfield West Industrial Employment lands and a portion of the Starbrite application west of Hwy 410. 	 Impacts 2012-096 & 2012-011 application in the Mayfield West Industrial Employmen t lands (31.5 hectares). Impacts Starbrite Holdings (6.8 hectares). MODERATE NET EFFECT RANKING: 5th Impacts a portion of 2 applications in the Mayfield West Industrial Employment lands and a portion of the Starbrite application west of Hwy 410.
2.2 Land Use -	- Community											
2.2.1 First Nation Reserves	• No reserves in study area.	• No reserves in study area.	No reserves in study area.	No reserves in study area.	No reserves in study area.	• No reserves in study area.	No reserves in study area.	No reserves in study area.	No reserves in study area.	No reserves in study area.	No reserves in study area.	• No reserves in study area.
	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	EFFECT	NO NET EFFECT		NO NET EFFECT	NO NET EFFECT	NO NET EFFECT		NO NET EFFECT
	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
Factors					Summ	ary of Potential N	let Effects and Ra	nking				
2.2.2 Indigenous Sacred Areas	 No known or reported Indigenous Sacred Areas 	 No known or reported Indigenous Sacred Areas 	 No known or reported Indigenous Sacred Areas 	 No known or reported Indigenous Sacred Areas 	 No known or reported Indigenous Sacred Areas 	 No known or reported Indigenous Sacred Areas 	 No known or reported Indigenous Sacred Areas 	 No known or reported Indigenous Sacred Areas 	 No known or reported Indigenous Sacred Areas 	 No known or reported Indigenous Sacred Areas 	 No known or reported Indigenous Sacred Areas 	 No known or reported Indigenous Sacred Areas
	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT
	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.
2.2.3 Urban and Rural Residential Uses and Properties	 80 residential properties impacted (45.8 hectares). 	• 74 residential properties impacted (45.3 hectares).	 96 residential properties impacted (27.17 hectares). 	 99 residential properties impacted (25.9 hectares). 	 38 residential properties impacted (36.8 hectares). 	 44 residential properties impacted (37.9 hectares). 	• 44 residential properties impacted (17.92 hectares).	• 41 residential properties impacted (16.8 hectares).	 23 residential properties impacted (33.7 hectares). 	• 30 residential properties impacted (34.8 hectares).	• 25 residential properties impacted (14.7 hectares).	 31 residential properties impacted (13.6 hectares).
	HIGH NET EFFECT	HIGH NET EFFECT	HIGH NET EFFECT	HIGH NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT
	RANKING: 9 th	RANKING: 9 th	RANKING: 11 th	RANKING: 11 th	RANKING: 5 th	RANKING: 5 th	RANKING: 5 th	RANKING: 5 th	RANKING: 1 st	RANKING: 3 rd	RANKING: 1 st	RANKING: 3 rd
	Impacts a high amount of residential properties.	Impacts a high amount of residential properties.	Impacts the second highest number of residential properties.	Impacts the highest number of residential properties.	Impacts a moderate number of residential properties.	Impacts a moderate number of residential properties.	Impacts a moderate number of residential properties.	Impacts a moderate number of residential properties.	Impacts the least number of residential properties.	Impacts 1 less residential property than S5- 12 but a significantly larger amount of land area.	Impacts the second least number of residential properties.	Impacts 1 more residential property than S5-10 but less overall land area is impacted.
2.2.4 Commercial/ Industrial Uses and Properties	• 2 vacant commercial properties impacted.	• 2 vacant commercial properties impacted.	• 2 properties impacted: 2 vacant commercial properties.	 3 properties impacted: 2 vacant commercial properties and 1 commercial property (Richards Environment al Control – 3.8 hectares). Also impacts Argo Developmen ts Temporary Sales 	• 1 commercial property impacted: Broadway Farmer's Market (13.5 ha).	• 1 commercial property impacted: Broadway Farmer's Market (13.5 ha).	 Impacts 1 commercial property: Broadway Farmer's Market (13.5 ha). 	• Impacts 1 commercial property: Broadway Farmer's Market (13.5 ha).	• No impacts but proximity to Brampton Flight Centre to be considered.	• No impacts on existing uses.	• No impacts on existing uses.	• No impacts on existing uses.

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
Factors					Summ	ary of Potential N	let Effects and Ra	nking				
	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	Trailer, however not included in number of properties impacted due to temporary use (not permitted long-term).	LOW NET EFFECT	LOW NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	LOW NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT
	RANKING: 6 th	RANKING: 5 th	RANKING: 9 th	RANKING: 9 th	RANKING: 7 th	RANKING: 7 th	RANKING: 11 th	RANKING: 11 th	RANKING: 4 th	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
	No buildings are impacted; Brampton Flight Centre is in proximity.	No buildings are impacted.	No buildings are impacted.	No buildings are impacted.	Impacts the use of the property for Broadway Farmer's market; intersects the middle of the property.	Impacts the use of the property for Broadway Farmer's market; intersects the middle of the property.	Impacts the use of the property for Broadway Farmer's market; intersects the middle of the property.	Impacts the use of the property for Broadway Farmer's market; intersects the middle of the property.	No impacts; but Brampton Flight Centre is in proximity.	No impacts.	No impacts.	No impacts.
2.2.5 Recreational	• No impacts.	• No impacts.	No impacts.	No impacts.	No impacts.	• No impacts.	• No impacts.	No impacts.	No impacts.	• No impacts.	No impacts	No impacts.
Areas and Tourist	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT
Attractions	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.
2.2.6 Community Facilities / Institutions	 1 community facility impacted (Brampton Christian School). 1 institution impacted (Brentwood Academy). 	• No impacts.	• No impacts.	• No impacts.	• No impacts.	• No impacts.	• No impacts.	• No impacts.	• No impacts.			
	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT
	RANKING: 9 th	RANKING: 9 th	RANKING: 9 th	RANKING: 9 th	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
	Impacts the entire parcel of the Brentwood Academy and a portion of the Brampton Christian School.	Impacts the entire parcel of the Brentwood Academy and a portion of the Brampton Christian School.	Impacts the entire parcel of the Brentwood Academy and a portion of the Brampton Christian School.	Impacts the entire parcel of the Brentwood Academy and a portion of the Brampton Christian School.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.

Evaluation Eactors	Alternative S5-	Alternative S5-	Alternative S5-3	Alternative S5-	Alternative S5-	Alternative	Alternative S5-	Alternative S5-	Alternative	Alternative S5-	Alternative S5-	Alternative
and Sub-	L. L	2		4	Summ	SS-0	r ot Efforto and Pa	o		iv - Freieneu		35-12
Factors					Summ	ary of Potential N	et Effects and Ra	nking				
2.2.7 Municipal	No impacts.	No impacts.	• No impacts.	No impacts.	No impacts.	• No impacts.	• No impacts.	No impacts.	No impacts.	No impacts.	• No impacts.	• No impacts.
Infrastructure	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT
and Public	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
Facilities	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.
2.3 Noise Sen	sitive Areas (NSA's)		· · - · · · p · - · ·								
0.0.4	,	, 	0	0	0	0	0	0	0	0	0	0
Z.3.1 Transportatio	Some residences	 Some rosidoneos 	 Some rosidences en 	 Several residences 	 Some rosidoneos 	 Some residences 	 Some residences on 	Several residences	 Some residences 	Some residences	 Some residences 	 Several residences
n Noise	on Konnody	on Old		on Old	on Konnody	on Old	Old School	on Old	on Konnody	on Old	on Old	on Old
11 10050	Dd Hoort	On Olu Sebeel Rd	Diu School	On Olu Sahaal Rd	Dd Hoort	OII OIU Sabaal Rd	Diu School	School Rd	Dd Hoort	On Olu Sahaal Rd	Oli Olu Sahaal Rd	Oli Olu Sebeel Pd
	Lake Pd	Heart Lake		and some on	Ru., Healt	Heart Lake	Ru., neart	and some on		Heart Lake	Heart Lake	and some on
	Lake Ku.,		Lake Nu., Hurontaria St		Lake Ku.,		Lake Ku., Huroptario		Lake Nu.,			
	St and Divia	Ru., Hurantaria	nuroniano Si.,		Futurianu St. and Divia	Ru.,	Futoritatio		St and	Ru.,	Ru., Hurantaria	
	St., and Dixie	Furoniano St. and		Ru., Huroptorio	St., and Dixie	Furoniano St. and Divia	St., and Dixie	Ku.,	St., and Divio Ed. aro	Furoniano St. and Divia	Furoniano St. and Divia	Ru., Huroptorio
	Ru. are	St., anu Divio Ed. oro	are anticipated to	St. and Divia	Ru. are		Ru. are	St and Divia	Dixie Ru. ale	St., and Dixie	St., and Dixie	St and
		Dixie Ru. are		St., and Dixie		Ru. are				Ru. are	Ru. are	St., and Divia Dd. ara
	De close	anticipated	be close	R0. are	be close	anticipated to	pe close	Ru. are	to be close	anticipated to	anticipated to	Dixie Rd. are
	enough to		enough to		enough to	De close	enough to		enough to	De close	De close	
	experience a	enougn to	experience a	pe close	experience a	enougn to	experience a	De close	experience a	enougn to	enougn to	to be close
	significant	experience a	significant	enougn to	significant	experience a	significant	enough to	significant	experience a	experience a	enough to
		significant	change in	experience a		signincant	change in	experience a		signincant	signincant	experience a
	to Link	change in	NOISE. LINK LO	significant	noise. Link	change in	NOISE. LINK LO	significant	noise ievei.	change in	change in	significant
	IO HWY 410	noise. Link to	HWY 410 IS	change in	IO HWY 410	noise. Link	Hwy 410	change in		noise ievei.	noise ievei.	change in
	is adjacent to	Hwy 410 IS	adjacent to a		passes near	10 HWy 410	passes near a	noise. Link				noise ievei.
	a residential	adjacent to a	residential	HWy 410 IS	a residential	passes near	residential	to HWy 410				
	SUDDIVISION.	residential	SUDDIVISION.	adjacent to a	SUDDIVISION.	a residential	SUDDIVISION.	passes near				
		subdivision.	Net effect	residential	Net effect	SUDDIVISION.	Net effect	a residential				
	atter	Net effect	atter	subdivision.	atter	Net effect	atter	subaivision.				
	mitigation	atter	mitigation	Net effect	mitigation	after	mitigation	Net effect				
	(noise	mitigation	(noise barrier)	atter	(noise	mitigation	(noise barrier)	atter				
	barrier) is	(noise	is somewhat	mitigation	barrier) may	(noise	may be	mitigation				
	somewhat of	barrier) is	of an increase	(noise	be somewhat	barrier) may	somewhat of	(noise				
	an increase	somewhat of	in traffic noise.	barrier) is	of an	be somewhat	an increase in	barrier) may				
	in traffic	an increase		somewhat of	increase in	of an	traffic noise.	be somewhat				
	noise.	in traffic		an increase	traffic noise.	increase in		of an				
		noise.		in traffic		traffic noise.		increase in				
				noise.				traffic noise.				
	HIGH NET	HIGH NET			HIGH NET	HIGH NET	HIGH NET		HIGH NET			HIGH NET
	EFFECI	EFFECI		HIGH NEI	EFFECI	EFFECI	EFFECI	HIGH NEI	EFFECI	HIGH NEI	HIGH NE I	EFFECI
			HIGH NET EFFECT	EFFECT				EFFECT		EFFECT	EFFECT	
	RANKING: 5 th	RANKING: 5 th	RANKING: 5 th	RANKING: 5 th	RANKING: 5 th	RANKING: 5 th	RANKING: 11 th	RANKING: 11 th	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
	Potential not	Potential not	Potential not	Potential not		Potential not	Potential not	Potential not	Linliko	Unliko	Linliko	Linliko
	incrosos in troffic	incrosos in traffic		incrosos in troffic	Dotontial not	rotential net	incrosoo in troffic			oltornotivos SE 4	olitornotivos SE 4	
									through SF 0	through SE 0 the	through SE 0 the	through SE
	noise at the	noise at the	noise at the	noise at the		noise at the	noise at the	noise at the	the link to Live	line to Live 440	inrougn 55-8, the	the link to Live
	subdivision, after	subdivision, atter	subdivision, after	subdivision, after		subdivision, atter	subdivision, atter	subdivision, atter		IINK TO HWY 410 IS	IIIIK to HWY 410 IS	
	mitigation. The	mitigation. The	mitigation. The	mitigation. The	subdivision, after	miligation. The	mitigation. Along	initigation. Along	410 IS Well	weil removed	weil removed	410 IS Well
	potential impact	potential impact	potential impact is	potential impact	mitigation. The	potential impact	with S5-8 this	with S5-7 this	removed from	from the	from the	removed from
	is similar to S5-2	is similar to S5-1,	similar to S5-1,	is similar to S5-1	potential impact	is similar to S5-1	alternative has	alternative has	the residential	residential	residential	the residential
	ເບ ວວ-໐ and	30-3 10 55-6 and	35-2, 35-4 to 35-6 and slightly less	ເບ ວວ-3, ວວ-5, S5-6 and slightly	to S5-4 S5-6	ເບ ວວ-ວ and	une nignest	potential impact	SUDAIVISION.	SUDAIVISION.	SUDAIVISION.	SUDAIVISION.

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
Factors					Summ	ary of Potential N	Net Effects and Ra	nking				
	slightly less than S5-7 and S5-8.	slightly less than S5-7 and S5-8.	than S5-7 and S5- 8.	less than S5-7 and S5-8.	and slightly less than S5-7 and S5-8.	slightly less than S5-7 and S5-8.						
2.4 Land Use -	- Resources											
2.4.1 Indigenous Treaty Rights and Land Use Management	Treaties including Nanfan (1701), Treaty 3 (1795), Treaty 3.75 (1795), Treaty 13 (1805), Treaty 13A (1805), Treaty 18, 1818, Treaty 19 (1918), Williams Treaty (1923), as well as various Assertions and Claims. Additional Indigenous Assertions and/or Claims may be filed and/or proven at any time. MODERATE NET EFFECT	Treaties including Nanfan (1701), Treaty 3 (1795), Treaty 3.75 (1795), Treaty 13 (1805), Treaty 13A (1805), Treaty 18, 1818, Treaty 19 (1918), Williams Treaty (1923), as well as various Assertions and Claims. Additional Indigenous Assertions and/or Claims may be filed and/or proven at any time. MODERATE NET EFFECT	Treaties including Nanfan (1701), Treaty 3 (1795), Treaty 3.75 (1795), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1905), Treaty 19 (1918), Williams Treaty (1923), as well as various Assertions and Claims. Additional Indigenous Assertions and/or Claims may be filed and/or proven at any time. MODERATE NET EFFECT	Treaties including Nanfan (1701), Treaty 3 (1795), Treaty 3.75 (1795), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1905), Treaty 13 (1918), Williams Treaty (1923), as well as various Assertions and Claims. Additional Indigenous Assertions and/or Claims may be filed and/or proven at any time. MODERATE NET EFFECT	Treaties including Nanfan (1701), Treaty 3 (1795), Treaty 3.75 (1795), Treaty 13 (1805), Treaty 13A (1805), Treaty 18, 1818, Treaty 19 (1918), Williams Treaty (1923), as well as various Assertions and Claims. Additional Indigenous Assertions and/or Claims may be filed and/or proven at any time. MODERATE NET EFFECT	Treaties including Nanfan (1701), Treaty 3 (1795), Treaty 3.75 (1795), Treaty 13 (1805), Treaty 13A (1805), Treaty 18, 1818, Treaty 19 (1918), Williams Treaty (1923), as well as various Assertions and Claims. Additional Indigenous Assertions and/or Claims may be filed and/or proven at any time. MODERATE NET EFFECT	Treaties including Nanfan (1701), Treaty 3 (1795), Treaty 3.75 (1795), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1905), Treaty 19 (1918), Williams Treaty (1923), as well as various Assertions and Claims. Additional Indigenous Assertions and/or Claims may be filed and/or proven at any time. MODERATE NET EFFECT	Treaties including Nanfan (1701), Treaty 3 (1795), Treaty 3.75 (1795), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1905), Treaty 13 (1918), Williams Treaty (1923), as well as various Assertions and Claims. Additional Indigenous Assertions and/or Claims may be filed and/or proven at any time. MODERATE NET EFFECT	Treaties including Nanfan (1701), Treaty 3 (1795), Treaty 3.75 (1795), Treaty 13 (1805), Treaty 13A (1805), Treaty 18, 1818, Treaty 19 (1918), Williams Treaty (1923), as well as various Assertions and Claims. Additional Indigenous Assertions and/or Claims may be filed and/or proven at any time. MODERATE NET EFFECT	Treaties including Nanfan (1701), Treaty 3 (1795), Treaty 3.75 (1795), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1905), Treaty 13 (1918), Williams Treaty (1923), as well as various Assertions and Claims. Additional Indigenous Assertions and/or Claims may be filed and/or proven at any time. MODERATE NET EFFECT	Treaties including Nanfan (1701), Treaty 3 (1795), Treaty 3.75 (1795), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1805), Treaty 13 (1905), Treaty 13 (1918), Williams Treaty (1923), as well as various Assertions and Claims. Additional Indigenous Assertions and/or Claims may be filed and/or proven at any time. MODERATE NET EFFECT	Treaties including Nanfan (1701), Treaty 3 (1795), Treaty 3.75 (1795), Treaty 13 (1805), Treaty 13A (1805), Treaty 18, 1818, Treaty 19 (1918), Williams Treaty (1923), as well as various Assertions and Claims. Additional Indigenous Assertions and/or Claims may be filed and/or proven at any time. MODERATE NET EFFECT
	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.
2.4.2 Agriculture / Specialty Crop												
 Removal or 	 Loss of 202.7 ha of 	Loss of 201.9 ha of	 Loss of 178.3 ha of Class 1 – 3 lands 	 Loss of 175.3 ha of Class 1 – 3 lands 	 Loss of 192.3 ha of Class 1 – 3 lands 	 Loss of 193.0 ha of 	 Loss of 178.4 ha of Class 1 – 3 lands 	 Loss of 166.6 ha of Class 1 – 3 lands 	 Loss of 189.0 ha of 	 Loss of 189.0 ha of Class 1 3 lands 	 Loss of 175.6 ha of Class 1 – 3 lands 	 Loss of 160.7 ha of

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors					Summa	ry of Potential I	Net Effects and Ra	nking				
sterilizati on of Class 1-3 agricultur al lands	Class 1 – 3 lands	Class 1 – 3 lands				Class 1 – 3 lands			Class 1 – 3 lands			Class 1 – 3 lands
 Specialty Crops/Cr opland affected 	 No specialty cropland affected 	 No specialty cropland affected 	 No specialty cropland affected 	 No specialty cropland affected 	 No specialty cropland affected 	 No specialty cropland affected 	 No specialty cropland affected 	 No specialty cropland affected 	cropland affected	 No specialty cropland affected 	 No specialty cropland affected 	cropland affected
Cropland affected	 Loss of 171.2 ha of common field crop cropland Loss of 1.6 ha of open field cropland Loss of 5.1 ha of small grain cropland Loss of 16.7 ha of pasture/forag e cropland 	 Loss of 157.8 ha of common field crop cropland Loss of 1.6 ha of open field cropland Loss of 5.1 ha of small grain cropland Loss of 21.9 ha of pasture/forag 	 Loss of 125.3 ha of common field crop cropland Loss of 3.5 ha of small grain cropland Loss of 25.6 ha of pasture/forage 	 Loss of 100.4 ha of common field crop cropland Loss of 1.2 ha of small grain cropland Loss of 45.0 ha of pasture/forag e cropland 	 Loss of 150.8 ha of common field crop cropland Loss of 5.2 ha of small grain cropland Loss of 1.6 ha of open field cropland Loss of 17.9 ha of pasture/forag e cropland 	 Loss of 140.7 ha of common field crop cropland Loss of 5.2 ha of small grain cropland Loss of 1.6 ha of open field cropland Loss of 26.3 ha of pasture/forag e cropland 	 Loss of 105.1 ha of common field crop cropland Loss of 3.5 ha of small grain cropland Loss of 42.2 ha of pasture/forag e cropland 	 Loss of 76.4 ha of common field crop cropland Loss of 1.2 ha of small grain cropland Loss of 62.1 ha of pasture/forag e cropland 	 Loss of 147.9 ha of common field crop cropland Loss of 5.1 ha of small grain cropland Loss of 1.6 ha of open field cropland Loss of 1.6 ha of open field cropland Loss of 19.4 ha of pasture/fora ge cropland 	 Loss of 137.8 ha of common field crop cropland Loss of 5.1 ha of small grain cropland Loss of 1.6 ha of open field cropland Loss of 27.8 ha of pasture/forag e cropland 	 Loss of 105.2 ha of common field crop cropland Loss of 3.5 ha of small grain cropland Loss of 41.2 ha of pasture/forag e cropland 	 Loss of 76.3 ha of common field crop cropland Loss of 1.2 ha of small grain cropland Loss of 57.5 ha of forage/pastur e cropland
• Livestock operation affected	• Two livestock operation affected (beef, dairy) (loss of land and buildings for beef, loss land for dairy)	e cropland • Two livestock operation affected (beef, dairy) (loss of buildings and land for beef, loss of land for dairy)	• Four livestock operations affected (3 beef, one dairy) (loss of land and buildings for one beef and the dairy, loss of land for all other operations)	• Five livestock operations affected (3 beef, one dairy, one horse) (loss of buildings and land for beef (2), horse and dairy, loss of land for others)	• Two livestock operations affected (2 beef) (loss of buildings and land from one, loss of land on other)	• Two livestock operations affected (2 beef) (loss of land and buildings for 1 beef operation, loss of land for other beef operation)	• Three livestock operations affected (2 beef, dairy) (loss of land only)	• Five livestock operations affected (3 beef, horse and dairy) (loss of buildings and land for 3 beef and horse operation, loss of land for dairy operation)	• Two livestock operations affected (2 beef) (loss of buildings and land for one beef operation, loss of land for the other)	• Three livestock operations affected (3 beef) (loss of buildings and land for two operations, loss of land only for the other)	• Four livestock operations affected (3 beef, dairy) (loss of buildings and land for one beef, and loss of land only for the others)	 Five livestock operations affected (3 beef, horse and dairy) (loss of buildings and land for two beef operations and horse operation, loss of land for other beef and dairy operations)
 Loss of agricultur al buildings 	 Loss of one large bank barn with extension, 	• Loss of one large bank barn with extension,	 Loss of one large bank barn with extension, 	 Loss of one large bank barn with extension, 	 Loss of one large bank barn with extension, 	 Loss of one large bank barn with extension, 	Loss of two sheds, two machine sheds, pole	• Loss of small pole barn, shed, garage, farm residential	 Loss of one large bank barn with extension, 	• Loss of one large bank barn with extension,	 Loss of two sheds, two machine sheds, pole 	 Loss of small pole barn, shed, garage, farm residential

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
Factors					Summa	ry of Potential N	let Effects and Ra	nking				
Factors	open top silo, covered silo, machine shed, pole barn, garage, farm residential unit, one machine shed, plastic covered hay storage structure, long pole barn, two pole barns, shed, garage, farm residential unit, large bank barn with extension, two pole barns, farm residential unit.	open top silo, covered silo, machine shed, pole barn, garage, farm residential unit, one machine shed, plastic covered hay storage structure, long pole barn, two pole barns, shed, garage, farm residential unit, large bank barn with extension, two pole barns, farm residential unit.	open top silo, covered silo, 2 machine sheds, pole barn, garage, farm residential unit	open top silo, covered silo, 2 machine sheds, pole barn, garage, farm residential unit, small pole barn, shed, farm residential unit, small pole barn, indoor riding arena, shed, farm residential unit, large pole barn with extensions, silo, 3 grain bins, large bank barn with extensions, machine shed, farm residential unit	open top silo, covered silo, machine shed, pole barn, garage, farm residential unit, machine shed, plastic covered hay storage structure, long pole barn, two pole barns, shed, garage, farm residential unit, large bank barn with extension, covered silo, two pole barns, garage, farm residential unit	open top silo, covered silo, machine shed, pole barn, garage, farm residential unit, machine shed, plastic covered hay storage structure, long pole barn, two pole barns, shed, garage, farm residential unit, large bank barn with extension, covered silo, two pole barns, garage, farm residential unit	barn, bank barn with extension, silo (open top), silo with top.	unit, small pole barn, indoor riding arena, farm residential unit, large pole barn with extensions, large bank barn with covered silo, large machine shed, pole barn, sheds, large bank barn with L shaped extension, large pole barn, machine shed, shed, pole barn, bank barn with extension, two machine sheds, open top silo, silo with cap.	open top silo, covered silo, machine shed, pole barn, garage, farm residential unit, machine shed, plastic covered hay storage structure, long pole barn, two pole barns, shed, garage, farm residential unit, large bank barn with extension, covered silo, two pole barns, garage, farm residential unit	open top silo, covered silo, machine shed, pole barn, garage, farm residential unit, machine shed, plastic covered hay storage structure, long pole barn, two pole barns, shed, garage, farm residential unit, large bank barn with extension, covered silo, two pole barns, garage, farm residential unit, two machine sheds, pole barn, bank barn with extension, open top silo	barn, bank barn with extension, open top silo, capped silo	unit, small pole barn, indoor riding arena, farm residential unit, large pole barn with extensions, large bank barn with covered silo, large machine shed, pole barn, sheds, large bank barn with L shaped extension, large pole barn, machine shed, shed, two machine sheds, pole barn, machine shed, shed, two machine sheds, pole barn, bank barn with extension, open top silo, capped silo
• Agricultur al buildings within 50 m	• No additional agricultural buildings within 50 m	• No additional agricultural buildings within 50 m	 No additional agricultural buildings within 50 m 	 No additional agricultural buildings within 50 m 	• No additional agricultural buildings within 50 m	 No additional agricultural buildings within 50 m 	• One large bank bark with L shaped extension, pole barn, machine shed	 No additional agricultural buildings within 50 m 	 No additional agricultural buildings within 50 m 	 capped silo. No additional agricultural buildings within 50 m 	 One large bank bark with L shaped extension, pole barn, machine shed 	 No additional agricultural buildings within 50
 Field crop operation affected 	• Eight crop operations affected	 Eight crop operations affected 	 Ten crop operations affected 	• Eight crop operations affected	 Seven crop operations affected 	 Eight crop operations affected 	 Nine crop operations affected 	Nine crop operations affected	Ten crop operations affected	 Nine crop operations affected 	Eight crop operations affected	Eight crop operations affected
 Farm propertie s greater than 20 	• Twelve farm properties greater than	• Twelve farm properties greater than	 Twelve farm properties 	• Ten farm properties greater than	• Eleven farm properties greater than	 Ten farm properties greater than 	• Twelve farm properties greater than	Nine farm properties greater than	• Twelve farm properties greater than	• Ten farm properties greater than 20 ha affected	Twelve farm properties greater than 20 ha affected	 Nine farm properties greater than 20 ha affected

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors					Summ	nary of Potential	Net Effects and Ra	inking				
ha affected	20 ha affected	20 ha affected	greater than 20 ha affected	20 ha affected	20 ha affected	20 ha affected	20 ha affected	20 ha affected	20 ha affected			
 Farm propertie s less than 20 ha affected 	• Seven farm properties less than 20 ha affected	• Seven farm properties less than 20 ha affected	• Thirteen farm properties less than 20 ha affected	• Thirteen farm properties less than 20 ha affected	• Eight farm properties less than 20 ha affected	• Eight farm properties less than 20 ha affected	• Eleven farm properties less than 20 ha affected	Eleven farm properties less than 20 ha affected	• Eight farm properties less than 20 ha affected	• Eight farm properties less than 20 ha affected	• Eleven farm properties less than 20 ha affected	• Eleven farm properties less than 20 ha affected
 Severed parcels greater than 20 ha created 	• Four severed parcels greater than 20 ha created	• Four severed parcels greater than 20 ha created	 Eleven severed parcels greater than 20 ha created 	• Six severed parcels greater than 20 ha created	• Four severed parcels greater than 20 ha created	• Five severed parcels greater than 20 ha created	• Nine severed parcels greater than 20 ha created	• Five severed parcels greater than 20 ha created	• Four severed parcels greater than 20 ha created	• Five severed parcels greater than 20 ha created	 Nine severed parcels greater than 20 ha created 	• Six severed parcels greater than 20 ha created
• Severed parcels less than 20 ha created	Twelve severed parcels less than 20 ha created	Twelve severed parcels less than 20 ha created	Twelve severed parcels less than 20 ha created	• Eighteen severed parcels less than 20 ha created	Thirteen severed parcels less than 20 ha created	Fourteen severed parcels less than 20 ha created	• Fourteen severed parcels less than 20 ha created	Seventeen severed parcels less than 20 ha created	Thirteen severed parcels less than 20 ha created	 Fourteen severed parcels less than 20 ha created 	 Fourteen severed parcels less than 20 ha created 	Eighteen severed parcels less than 20 ha created
Landlock ed parcels created	 Four landlocked parcels created 	 Four landlocked parcels created 	 Seven landlocked parcels created 	 Five landlocked parcels created 	Three Iandlocked parcels created	 Four landlocked parcels created 	• Four landlocked parcels created	Six landlocked parcels created	 Four landlocked parcels created 	 Four landlocked parcels created 	 Four landlocked parcels created 	 Five landlocked parcels created
High investme nt operation s affected	• Two high investment operations affected [beef (loss of land and buildings) and cash crop (loss of land and buildings)]	One high investment operation affected (beef) (loss of buildings and land)	• Five high investment operations affected (three beef, one dairy, one cash crop) (loss of buildings and land for one beef and dairy, loss of land for all other operations)	• Five high investment operations affected (three beef, dairy, cash crop) (loss of buildings and land for two beef operations, horse and dairy, loss of land for other operations)	• Three high investment operations affected (Two beef, one cash crop) (loss of buildings and land on one beef and on cash crop operation, loss of land on other beef operation)	• Three high investment operations affected (2 beef, 1 cash crop) (loss of buildings and land for 1 beef and cash crop operations, loss of land for other beef)	• Four high investment operations affected (2 beef, dairy, cash crop) (loss of land only)	• Four high investment operations affected (2 beef, dairy, cash crop) (loss of land and buildings for 2 beef, loss of land only for dairy and cash crop)	Three high investment operations affected (2 beef, cash crop) (loss of buildings and land for one beef operation, loss of buildings and land for cash crop operation, loss of land for beef operation)	• Four high investment operations affected (3 beef, cash crop) (loss of buildings and land for two beef operations, loss of buildings and land for cash crop operation, loss of land only for beef operation)	• Five high investment operations affected (3 beef. dairy, cash crop) (loss of land and buildings for one beef and loss of land only for the others)	• Five high investment operations affected (3 beef, dairy, cash crop) (loss of buildings and land for two beef operations, loss of land only for other operations)
• Farm equipme	Old School Road, Highway 10,	Old School Road,	Old School Road,	Old School Road,	Old School Road,	• Old School Road,	Old School Road,	Old School Road,	Old School Road,	Old School Road,	 Old School Road, 	Old School Road,

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors					Summ	ary of Potential N	let Effects and Ra	nking				
nt transport ation routes affected	Kennedy Road, Heart Lake Road and Dixie Road are active farm travel corridors	Highway 10, Kennedy Road, Heart Lake Road and Dixie Road are active farm travel corridors	Highway 10, Kennedy Road, Heart Lake Road and Dixie Road are active farm travel corridors	Highway 10, Kennedy Road, Heart Lake Road and Dixie Road are active farm travel corridors	Highway 10, Kennedy Road, Heart Lake Road and Dixie Road are active farm travel corridors	Highway 10, Kennedy Road, Heart Lake Road and Dixie Road are active farm travel corridors	Highway 10, Kennedy Road, Heart Lake Road and Dixie Road are active farm travel corridors	Highway 10, Kennedy Road, Heart Lake Road and Dixie Road are active farm travel corridors	Highway 10, Kennedy Road, Heart Lake Road and Dixie Road are active farm travel corridors	Highway 10, Kennedy Road, Heart Lake Road and Dixie Road are active farm travel corridors	Highway 10, Kennedy Road, Heart Lake Road and Dixie Road are active farm travel corridors	Highway 10, Kennedy Road, Heart Lake Road and Dixie Road are active farm travel corridors
• Division of agricultur al communi ty areas	 No division of agricultural community areas 	 No division of agricultural community areas 	 No division of agricultural community areas 	 No division of agricultural community areas 	 No division of agricultural community areas 	 No division of agricultural community areas 	 No division of agricultural community areas 	 No division of agricultural community areas 	 No division of agricultural community areas 	 No division of agricultural community areas 	 No division of agricultural community areas 	 No division of agricultural community areas
 Loss of tile drainage 	• Loss of 49.6 0 ha of systematic tile drainage	• Loss of 48.2 ha of systematic tile drainage	• Loss of 42.8 ha of systemic tile drainage and 4.5 ha of random tile drainage	 Loss of 22.5 ha of systemic tile drainage and 23.3 ha of random tile drainage 	• Loss of 55.6 ha of systemic tile drainage and 15.1 ha of random drainage	• Loss of 55.6 ha of systemic tile drainage and 15.1 ha of random drainage	 Loss of 42.8 ha of systemic tile drainage and 28.6 ha of random tile drainage 	• Loss of 17.5 ha of systematic tile drainage and 47.3 ha of random tile drainage	• Loss of 54.4 ha of systematic tile drainage and 16.1 random tile drainage	• Loss of 54.4 ha of systematic tile drainage and 16.1 ha of random tile drainage	• Loss of 41.5 ha of systematic tile drainage and 27.6 ha of random tile drainage	• Loss of 16.4 ha of systematic tile drainage and 41.7 ha of random tile drainage
	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	HIGH NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	HIGH NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	HIGH NET EFFECT
	RANKING: 1 st	RANKING: 1 st	RANKING: 5 th	RANKING: 10 th	RANKING: 1 st	RANKING: 1 st	RANKING: 5 th	RANKING: 10 th	RANKING: 5 th	RANKING: 5 th	RANKING: 5 th	RANKING: 10 th
	 Large number of buildings lost Large number of < 20 ha severances created Large quantity of land lost Affects one livestock operation (loss of land and buildings) Affects two high investment operations (loss of land 	 Large number of buildings lost Large number of < 20 ha severances created Large quantity of land lost Affects one livestock operation (loss of land and buildings) Affects two high investment operations (loss of land 	 Fewest number of buildings lost Large quantity of land lost Affects four livestock operations (loss of land and buildings on one, loss of land on the others) Affects five high investment operations (loss of land and buildings for one, loss of land only for others) 	 Large number of buildings lost Large quantity of land lost Large number of < 20 ha severances created Large number of landlocked parcels created Affects five livestock operations (loss of land and buildings on two, loss 	 Large number of buildings lost Large quantity of land lost Large number of < 20 ha severances created Two livestock operations affected (2 beef) (loss of buildings and land from one, loss of land on other) Three high investment operations 	 Large number of buildings lost Large quantity of land lost Large number of < 20 ha severances created Two livestock operations affected (2 beef) (loss of land and buildings for 1 beef operation, loss of land for other beef operation) 	 Fewest number of buildings lost Large number of large agricultural properties impacted Large quantity of land lost Large number of < 20 ha severances created Three livestock operations affected (2 beef, dairy) (loss of land only) 	 Large number of buildings lost Large quantity of land lost Large number of < 20 ha severances created Four livestock operations affected (2 beef, horse and dairy) (loss of buildings and land for 2 beef and horse operation, 	 Large number of buildings lost Large quantity of land lost Large number of < 20 ha severances created Two livestock operations affected (2 beef) (Loss of buildings and land for one beef operation, loss of land for the other) 	 Large number of buildings lost Large quantity of land lost Large number of < 20 ha severances created Two livestock operations affected (2 beef) (Loss of buildings and land for one beef operation, loss of land for the other) Three high investment 	 Fewest number of buildings lost Large quantity of land lost Large number of < 20 ha severances created Three livestock operations affected (2 beef, dairy) (loss of land only) Four high investment operations affected (2 beef, dairy, 	 Large number of buildings lost Large quantity of land lost Affects three high investment operations Large number of < 20 ha severances created Large amount of tile drained lands affected

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors					Summ	ary of Potential N	let Effects and Ra	nking				
	and buildings for both)	and buildings for both)		of land only on the others) • Affects five high investment operations (loss of land and buildings on two operations, loss of land only on others)	affected (Two beef, one cash crop) (loss of buildings and land on one beef and on cash crop operation, loss of land on other beef operation) • Large amount of tile drained lands affected	 Three high investment operations affected (2 beef, 1 cash crop) (loss of buildings and land for 1 beef and cash crop operations, loss of land for other beef) Large amount of tile drained lands affected 	 Four high investment operations affected (2 beef, dairy, cash crop) (loss of land only) Large amount of tile drained lands affected 	 loss of land for dairy operation) Four high investment operations affected (2 beef, dairy, cash crop) (loss of land and buildings for 2 beef, loss of land only for dairy and cash crop) Large amount of tile drained lands affected 	 Three high investment operations affected (2 beef, cash crop) (loss of buildings and land for one beef operation, loss of buildings and land for cash crop operation, loss of land for beef operation) Large amount of tile drained land affected 	operations affected (2 beef, cash crop) (loss of buildings and land for one beef operation, loss of buildings and land for cash crop operation, loss of land for beef operation) • Large amount of tile drained land affected	cash crop) (loss of land only) • Large amount of tile drained lands affected	
2.4.3 Recreation	No Impacts.	No Impacts.	No Impacts.	No Impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.
Recreation	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT
	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.
2.4.4	No Impacts.	No Impacts.	No Impacts.	No Impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.
and Mineral Resources	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT
	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.
2.5 Major Utili	ty Transmission Co	orridors and Pipelin	ies									
2.5.1 Major Existing	No Impacts.	No Impacts.	No Impacts.	No Impacts.	No impacts.	No impacts.	• No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.
Utility	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT
Transmission Corridors and	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
Pipelines	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.
2.5.2 Major Proposed	No Impacts.	No Impacts.	No Impacts.	No Impacts.	No impacts.	No impacts.	No impacts.	• No impacts.	No impacts.	• No impacts.	• No impacts.	• No impacts.
Utility	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT
Transmission Corridors and	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
Pipelines	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.	No impacts.

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
Factors					Summ	nary of Potential N	let Effects and Ra	nking				
2.6 Contaminate d Property and Waste Managemen t	 Properties within alternative: One (1) commercial/li ght industrial property; One (1) abandoned oil and gas well; One (1) institutional property. Properties within 250 m of alternative: One (1) vehicle repair facility; One (1) property with historical fuel storage; One (1) abandoned oil and gas well; Five (5) commercial/li ght industrial properties; Two (2) institutional properties. 	 Properties within alternative: One (1) commercial/li ght industrial property; One (1) abandoned oil and gas well; One (1) institutional property. Properties within 250 m of alternative: One (1) vehicle repair facility; One (1) property with historical fuel storage; Four (4) commercial/li ght industrial properties; Two (2) institutional properties; One (1) abandoned oil and gas well. 	 Properties within alternative: Two (2) commercial/li ght industrial properties; One (1) institutional property. Properties within 250 m of alternative: One (1) vehicle repair facility; One (1) property with historical fuel storage; Three (3) commercial/li ght industrial properties; Three (3) institutional properties. 	 Properties within alternative: Three (3) commercial/lig ht industrial properties; One (1) institutional property. Properties within 250 m of alternative: One (1) vehicle repair facility; One (1) property with historical fuel storage; Four (4) commercial/lig ht industrial properties; Four (4) institutional properties. 	 Properties within alternative: Three (3) vehicle repair facilities; Three (3) commercial/li ght industrial properties; One (1) abandoned oil and gas well. Properties within 250 m of alternative: Eight (8) vehicle repair facilities One (1) retail gas station Four (4) commercial/li ght industrial properties; One (1) abandoned oil and gas well. 	 Properties within alternative: Three (3) commercial/li ght industrial properties; One (1) abandoned oil and gas well. Three (3) vehicle repair facilities. Properties within 250 m of alternative: Four (4) commercial/li ght industrial properties; One (1) abandoned oil and gas well. Eight (8) vehicle repair facilities; One (1) retail gas station. 	 Properties within alternative: Three (3) vehicle repair facilities; Four (4) commercial/li ght industrial properties. Properties within 250 m of alternative: Eight (8) vehicle repair facilities; One (1) retail gas station Four (4) commercial/li ght industrial properties. 	 Properties within alternative: Three (3) vehicle repair facilities; Five (5) commercial/li ght industrial properties. Properties within 250 m of alternative: Eight (8) vehicle repair facilities; Five (5) commercial/li ght industrial properties; One (1) retail gas station. One (1) institutional property. 	 Properties within alternative: Three (3) vehicle repair facilities; One (1) commercial/l ight industrial property One (1) abandoned oil and gas well. Properties within 250 m of alternative: Six (6) vehicle repair facilities; One (1) abandoned oil and gas well; Four (4) commercial/l ight industrial properties One (1) retail gas station. 	 Properties within alternative: Three (3) vehicle repair facilities; One (1) commercial/lig ht industrial property One (1) abandoned oil and gas well. Properties within 250 m of alternative: Six (6) vehicle repair facilities; One (1) abandoned oil and gas well; Four (4) commercial/lig ht industrial properties; One (1) retail gas station 	 Properties within alternative: Three (3) vehicle repair facilities; Two (2) commercial/li ght industrial properties. Properties within 250 m of alternative: Six (6) vehicle repair facilities; One (1) retail gas station Four (4) commercial/li ght industrial properties. 	 Properties within alternative: Three (3) vehicle repair facilities; Three (3) commercial/li ght industrial properties. Properties within 250 m of alternative: Six (6) vehicle repair facilities; One (1) retail gas station. Six (6) commercial/li ght industrial properties.
	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	HIGH NET EFFECT	HIGH NET EFFECT	HIGH NET EFFECT	HIGH NET EFFECT	HIGH NET EFFECT	HIGH NET EFFECT	HIGH NET EFFECT	HIGH NET EFFECT	HIGH NET EFFECT
	RANKING: 3rd	RANKING: 2 nd	RANKING: 1 st	RANKING: 4 th	RANKING: 10 th	RANKING: 10 th	RANKING: 9 th	RANKING: 11 th	RANKING: 7 th	RANKING: 7 th	RANKING: 6 th	RANKING: 8 th
	One property of high concern and two properties of medium concern to be directly impacted; three properties of high concern and seven properties of medium	One property of high concern and two properties of medium concern to be directly impacted; two properties of high concern and seven properties of medium	One property of high concern and two properties of medium concern to be directly impacted; two properties of high concern and six properties of medium concern	One property of high concern and three properties of medium concern to be directly impacted; two properties of high concern and eight properties of medium	Three properties of high concern and four properties of medium concern to be directly impacted; nine properties of high concern and five properties of	Three properties of high concern and four properties of medium concern to be directly impacted; nine properties of high concern and five properties of	Three properties of high concern and four properties of medium concern to be directly impacted; nine properties of high concern and four properties of	Three properties of high concern and five properties of medium concern to be directly impacted; nine properties of high concern and six properties of	Three properties of high concern and two properties of medium concern to be directly impacted; seven properties of high concern and five	Three properties of high concern and two properties of medium concern to be directly impacted; seven properties of high concern and five properties of	Three properties of high concern and two properties of medium concern to be directly impacted; seven properties of high concern and four properties of	Three properties of high concern and three properties of medium concern to be directly impacted; seven properties of high concern and six properties of
	concern to be	concern to be	to be indirectly impacted.	concern to be	medium concern	medium concern	medium concern	medium concern	properties of medium concern	medium concern	medium concern	medium concern

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
Factors					Summ	ary of Potential N	let Effects and Ra	nking				
	indirectly impacted.	indirectly impacted.		indirectly impacted.	to be indirectly impacted.	to be indirectly impacted.	to be indirectly impacted.	to be indirectly impacted.	to be indirectly impacted.	to be indirectly impacted.	to be indirectly impacted.	to be indirectly impacted.
2.7 Landscape	Composition											
2.7.1 Terrain	 Alternative encompasse s existing Hwy 10/ Hurontario St. corridor heading north-south at the west end of Section 5, as well as portion of the existing Hwy 410 corridor (divided highway) travelling east-west; there is also a west to east leg of the alternative to the north connecting Sections 4 and 6 Overall this alternative affects 4 Unevaluated Wetlands and 2 PSW (approx. 12.0 ha of wetland in total) West-East Mainline Predominantl y level topography and agricultural land use 	 Alternative encompasse s existing Hwy 10/ Hurontario St. corridor heading north-south at the west end of Section 5, as well as portion of the existing Hwy 410 corridor (divided highway) travelling east-west; there is also a west to east leg of the alternative to the north connecting Sections 4 and 6 Overall 2 Provincially Significant Wetland and 4 Unevaluated Wetlands are impacted by this alternative (approx. 14.0 ha of wetland in total) Predominantl 	 Alternative encompasses existing Hwy 10/ Hurontario St. corridor heading north- south at the west end of Section 5, as well as portions of the existing Hwy 410 corridor (divided highway) travelling east-west; there is also a west to east leg of the alternative to the north connecting Sections 4 and 6 Overall this alternative impacts 5 Unevaluated Wetlands and 2 Provincially Significant Wetland (approx. 17.0 ha of wetland in total) <u>West-East</u> <u>Mainline</u> Majority of alternative characterized by level topography and agricultural land use 	 Alternative encompasses existing Hwy 10/ Hurontario St. corridor heading north-south at the west end of Section 5, as well as portion of the existing Hwy 410 corridor (divided highway) travelling east-west; there is also a west to east leg of the alternative to the north connecting Sections 4 and 6 Overall 5 Unevaluated Wetlands and 2 PSW (Heart Lake Complex; Etobicoke Creek Headwater PSW) are impacted by this portion of alternative (approx. 20.0 ha of wetland in total) Majority of otternative 	 Overall this alternative alignment effects 6 Unevaluated Wetland areas and 2 PSW associated with Heart Lake PSW complex (approx. 9.0 ha of wetland in total) West-East Mainline Predominantl y level topography and agricultural land use across alternative, interspersed with some creek/ wooded vegetation channels particularly in the west half of alternative Land use throughout alternative Land use throughout alternative designated Agricultural Alternative crosses 5 watercourses and associated floodplains 	 Overall this alternative affects 6 Unevaluated Wetland areas and 2 PSW (approx. 9.0 ha of wetland in total) <u>West-East</u> <u>Mainline</u> Predominantl y level topography and agricultural land use across alternative, interspersed with some creek/ wooded vegetation channels particularly in the west half of alternative Land use throughout alternative Land use throughout alternative designated Agricultural Alternative crosses 7 watercourses and associated floodplains <u>East Link</u> Alternative characterize d by 	 Overall this alternative affects 6 Unevaluated Wetland areas and 2 PSW (approx. 10.0 ha of wetland in total) <u>West-East</u> <u>Mainline</u> Majority of alternative characterized by level topography and agricultural land use, interspersed by several woodlots and creek crossings particularly in western half of alternative Land use throughout alternative designated Agricultural Alternative crosses 7 watercourses and associated floodplains <u>East Link</u> Alternative characterized by predominantly level 	 Overall this alternative affects 6 Unevaluated Wetland areas and 2 PSWs (approx. 12.0 ha of wetland in total) <u>West-East</u> <u>Mainline</u> This portion of alternative characterized by level topography and agricultural land use, interspersed by several woodlots and creek crossings particularly in western half of alternative Land use throughout alternative designated Agricultural Alternative crosses 7 watercourses and associated floodplains <u>East Link</u> This portion of alternative is also comprised of predominantl 	 Overall this alternative affects 5 Unevaluated Wetland areas and 2 PSW (approx. 7.0 ha of wetland in total) <u>West-East</u> <u>Mainline</u> Predominant ly level topography and agricultural land use across alternative, interspersed with some creek/ wooded vegetation channels particularly in the west half of alternative Land use throughout alternative Land use throughout alternative designated Agricultural Alternative crosses 5 watercourse s and associated floodplains Alternative characterize 	 Overall this alternative affects 5 Unevaluated Wetland areas and 2 PSWs (approx. 7.0 ha of wetland in total) <u>West-East</u> <u>Mainline</u> Predominantl y level topography and agricultural land use across alternative, interspersed with some creek/ wooded vegetation channels particularly in the west half of alternative Land use throughout alternative designated Agricultural Alternative crosses 7 watercourses and associated floodplains <u>East Link</u> Alternative characterized by predominantl 	 Overall this alternative affects 5 Unevaluated Wetland areas and 2 PSWs (approx. 9.0 ha of wetland in total) West-East Mainline Majority of alternative characterized by level topography and agricultural land use, interspersed by several woodlots and creek crossings particularly in western half of alternative Land use throughout alternative designated Agricultural Alternative crosses 8 watercourses and associated floodplains Alternative characterized by predominantl y level 	 Overall this alternative affects 5 Unevaluated Wetland areas and 2 PSWs (approx. 10.0 ha of wetland in total) <u>West-East</u> <u>Mainline</u> Majority of alternative characterize d by level topography and agricultural land use, interspersed by several woodlots and creek crossings particularly in western half of alternative Land use throughout alternative designated Agricultural Alternative crosses 8 watercourse s and associated floodplains <u>East Link</u> Alternative characterize d by predominantl y level
	alternative, interspersed	topography and	interspersed by several	characterized by level	Alternative characterized	y level topography	and agricultural	topography and	predominantl y level	topography and	and agricultural	and agricultural
	with some	agricultural	woodlots and	topography	by	and	land use		topography		land use	land use

Evaluation Alternative S	5- Alternative S5- 2	Alternative S5-3 Alter	ernative S5- Alternative S5-	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors	-		Sumn	nary of Potential N	let Effects and Ra	nking				
 creek/ wooded vegetation channels particularly the west ha of alternative designated Agricultura This portion of alternative designated floodplains West Link Bulk of alternative within designated Future Urb Area, but also crosse portions of Agricultura Greenbelt Protected Countrysid Designated Residentia Designated Employme and Environme al Policy areas This portion of alternative crosses 7 watercours and associated floodplains 	in key see across alternative, interspersed with some creek/ wooded vegetation channels particularly in the west half of alternative e Land use throughout alternative designated Agricultural • This portion of alternative crosses 8 watercourse s and associated floodplains <u>West Link</u> • Bulk of alternative is within designated Future Urban Area, but also crosses portions of Agricultural, Greenbelt t, Protected Countryside, t, Designated Residential, Designated Employment, and Environment al Policy areas • This portion of alternative crosses 7 watercourse s and associated floodplains	creek crossings particularly in western half of alternativeand ag particularly in western half of alternative designated Agriculturalwww water of alternative crosses 9 watercourses and alternative is within designated Future Urban Area, but also crosses portions of Agricultural, Greenbelt Protected Countryside, Designated Employment, and Designated Employment, and Environmental Policy areasand age of of endet endet endet watercourses and def associated floodplains within designated Future Urban Area, but also crosses portions of Agricultural, Greenbelt Protected Countryside, Designated Employment, and Environmental Policy areasWest endet endet protected futor of endet floodplains• This portion of alternative crosses 7 watercourses and and Environmental Policy areasBulk endet end	and agricultural and use, nterspersed by several woodlots and creek crossings particularly in western half of alternative Land use throughout alternative designated Agricultural This portion of alternative crosses 9 watercourses and associated floodplains <u>st Link</u> Bulk of alternative is within designated Future Urban Area, but also crosses 0 and Designated Employment areas • Alternative crosses 4 watercourses and Agricultural, Greenbelt Protected Countryside, Designated Employment, and Environmenta Policy areas This portion of alternative crosses 7 watercourses and associated floodplains	 agricultural land use Bulk of alternative is within designated Future Urban Area, but also crosses Greenbelt Protected Countryside and Designated Employment areas Alternative crosses 4 watercourses and associated floodplains 	 Bulk of alternative is within designated Future Urban Area, but also crosses Greenbelt Protected Countryside and Designated Employment areas Alternative crosses 4 watercourses and associated floodplains 	 agricultural land use Bulk of alternative is within designated Future Urban Area, but also crosses Greenbelt Protected Countryside and Designated Employment areas Alternative crosses 4 watercourses and associated floodplains 	 and agricultural land use Bulk of alternative is within designated Future Urban Area, but also crosses Greenbelt Protected Countryside and Designated Employment areas Alternative crosses 3 watercourse s and associated floodplains 	 agricultural land use Bulk of alternative is within designated Future Urban Area, but also crosses Greenbelt Protected Countryside and Designated Employment areas Alternative crosses 3 watercourses and associated floodplains 	 Bulk of alternative is within designated Future Urban Area, but also crosses Greenbelt Protected Countryside and Designated Employment areas Alternative crosses 3 watercourses and associated floodplains 	 Bulk of alternative is within designated Future Urban Area, but also crosses Greenbelt Protected Countryside and Designated Employment areas Alternative crosses 3 watercourse s and associated floodplains

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors					Summ	ary of Potential N	let Effects and Ra	nking				
	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT
	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 9 th	RANKING: 9 th	RANKING: 9 th	RANKING: 9 th	RANKING: 5 th	RANKING: 5 th	RANKING: 5 th	RANKING: 5 th
	Primarily level topography and agricultural fields, moderate effect due to interruption of several watercourses and greenways including one designated Greenbelt Protected Countryside area and one Environmental Policy area. As portion of alternative utilizes existing transportation corridor alignment, S5-1 through S5-4 have fewer effects on existing land use patterns as compared to other alternatives.	Primarily level topography and agricultural fields, moderate effect due to interruption of several watercourses and greenways including one designated Greenbelt Protected Countryside area and one Environmental Policy area. As portion of alternative utilizes existing transportation corridor alignment, S5-1 through S5-4 have fewer effects on existing land use patterns as compared to other alternatives.	Primarily level topography and agricultural fields, moderate effect due to interruption of several watercourses and greenways including one designated Greenbelt Protected Countryside area and one Environmental Policy area. As portion of alternative utilizes existing transportation corridor alignment, S5-1 through S5-4 have fewer effects on existing land use patterns as compared to other alternatives.	Primarily level topography and agricultural fields, moderate effect due to interruption of several watercourses and greenways including one designated Greenbelt Protected Countryside area and one Environmental Policy area. As portion of alternative utilizes existing transportation corridor alignment, S5-1 through S5-4 have fewer impacts on existing land use patterns as compared to other alternatives.	Predominantly level topography and agricultural land, moderate effect due to interruption of several watercourses and greenways including one designated Greenbelt Protected Countryside area. This alignment of the east link has greater effects on existing land use patterns than Alternatives S5-9 through S5-12.	Predominantly level topography and agricultural land, moderate effect due to interruption of several watercourses and greenways including one designated Greenbelt Protected Countryside area. This alignment of the east link has greater effects on existing land use patterns than Alternatives S5-9 through S5-12.	Predominantly level topography and agricultural land, moderate effect due to interruption of several watercourses and greenways including one designated Greenbelt Protected Countryside area. This alignment of the east link has greater impacts on existing land use patterns than Alternatives S5-9 through S5-12.	Predominantly level topography and agricultural land, moderate effect due to interruption of several watercourses and greenways including one designated Greenbelt Protected Countryside area. This alignment of the east link has greater impacts on existing land use patterns than Alternatives S5-9 through S5-12.	Predominantly level topography and agricultural land, moderate effect due to interruption of several watercourses and greenways including one designated Greenbelt Protected Countryside area. This alignment of the east link has fewer impacts on existing land use patterns than Alternatives S5-5 through S5-8.	Predominantly level topography and agricultural land, moderate effect due to interruption of several watercourses and greenways including one designated Greenbelt Protected Countryside area. This alignment of the east link has fewer impacts on existing land use patterns than Alternatives S5-5 through S5-8.	Predominantly level topography and agricultural land, moderate effect due to interruption of several watercourses and greenways including one designated Greenbelt Protected Countryside area. This alignment of the east link has fewer impacts on existing land use patterns than Alternatives S5-5 through S5-8.	Predominantly level topography and agricultural land, moderate effect due to interruption of several watercourses and greenways including one designated Greenbelt Protected Countryside area. This alignment of the east link has fewer effects on existing land use patterns than Alternatives S5-5 through S5-8.
2.7.2 Vegetation	 Overall this alternative impacts 22.0 ha of upland vegetation communities including 4 potentially significant wooded areas (approximate ly 13.0 ha) <u>West-East</u> <u>Mainline</u> Alternative interrupts 4 wooded area 	 Overall this alternative impacts approx. 30.0 ha of upland and wooded vegetation including 4 potentially significant wooded areas (approximate ly 19.04 ha) <u>West-East Mainline</u> Alternative interrupts 4 	 Overall this alternative impacts approximately 38.0 ha of upland and wooded vegetation including 4 potentially significant wooded areas (approximatel y 19.0 ha) West-East Mainline Alternative interrupts 	 Overall this alternative impacts approximatel y 35.0 ha of upland and wooded vegetation including 4 areas of potentially significant woodlands (approximatel y 17.0 ha) <u>West-East</u> <u>Mainline</u> 	 Overall this alternative impacts approximatel y 16.0 ha of upland and wooded vegetation including 5 potentially significant woodlands (approximate ly 4.0 ha) West-East Mainline Alternative interrupts 4 	 Overall this alternative impacts approximatel y 19.0 ha of upland and wooded vegetation including 3 areas of potentially significant woodland (approximate ly 7.0ha) <u>West-East</u> <u>Mainline</u> 	 Overall this alternative impacts approximately 24.0 ha of upland and wooded vegetation including 4 areas of potentially significant woodland (approximatel y 8.0 ha) <u>West-East</u> <u>Mainline</u> 	 Overall this alternative impacts approximatel y 15.0 ha of upland and wooded vegetation including 4 areas of potentially significant woodland (approximatel y 6.0 ha) <u>West-East</u> <u>Mainline</u> 	Overall this alternative impacts approximatel y 20.0 ha of upland and wooded vegetation including 3 areas of potentially significant woodland (approximat ely 9.0 ha) <u>West-East</u> <u>Mainline</u>	Overall this alternative impacts approximatel y 23.0 ha of upland and wooded vegetation including 4 areas of potentially significant woodland (approximatel y 12.0 ha) <u>West-East</u> <u>Mainline</u>	Overall this alternative impacts approximatel y 30.0 ha of upland and wooded vegetation including 4 areas of potentially significant woodland (approximatel y 11.0 ha) <u>West-East</u> <u>Mainline</u>	Overall this alternative impacts approximatel y 20.0 ha of upland and wooded vegetation including 3 areas of potentially significant woodland (approximate ly 10.0 ha) <u>West-East</u> <u>Mainline</u>

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
Factors					Summ	nary of Potential N	let Effects and Ra	nking				
	vegetation communities associated with creeks. Alternative will impact/ remove 1 smaller wooded area off Hurontario St. at west end of section Impacts one half of larger wooded area at far east section of alternative <u>West Link</u> • Alternative impacts/ interrupts connectivity of 3 wooded areas associated with creek channels	 wooded area vegetation communities associated with creeks Alternative will impact/ remove 1 smaller wooded area off Hurontario St. at west end of section Impacts one half of larger wooded area at far east section of alternative Alternative impacts/ interrupts connectivity of 3 wooded areas associated with creek channels 	connectivity of 3 wooded area vegetation communities associated with creeks • Alternative will remove 100% of 3 separate smaller wooded areas and a min. of 50% of one larger wooded area <u>West Link</u> • Alternative impacts/ interrupts connectivity of 3 wooded areas associated with creek channels	 Alternative interrupts connectivity of 3 wooded area vegetation communities associated with creeks Alternative impacts 3 additional smaller wooded areas, and removes most of 2 large wooded areas West Link Alternative impacts/ interrupts connectivity of 3 wooded areas associated with creek channels, 	 wooded area vegetation communities associated with creeks Alternative will impact/ remove 1 smaller wooded area off Hurontario St. at west end of section Impacts one half of larger wooded area at far east section of alternative <u>East Link</u> Alternative interrupts connectivity of creek floodplain vegetation (limited mature woody vegetation), as well as portion of wooded area adjacent to creek Alternative impacts approx. 80% of wooded area just north of Old School Rd. Impacts to approx. 50% of wooded area just north of southern interchange Southern interchange 	 Alternative interrupts 4 wooded area vegetation communities associated with creeks Impacts one half of larger wooded area at far east section of alternative <u>East Link</u> Alternative interrupts connectivity of creek floodplain vegetation (limited mature woody vegetation), as well as portion of wooded area adjacent to creek Alternative impacts approximatel y 80% of wooded area just north of Old School Rd. Impacts to approx. 50% of wooded area just north of southern interchange Southern interchange Southern interchange Southern interchange 	 Alternative interrupts connectivity of 3 wooded area vegetation communities associated with creeks Alternative will remove 100% of 3 separate smaller wooded areas and a min. of 50% of one larger wooded area Alternative interrupts connectivity of creek floodplain vegetation (limited mature woody vegetation), as well as portion of wooded area adjacent to creek Alternative impacts approx. 80% of wooded area just north of Old School Rd. Impacts approximately 50% of wooded area just north of southern interchange Southern interchange removes large wooded area and 	 Alternative interrupts connectivity of 3 wooded area vegetation communities associated with creeks Alternative impacts 3 additional smaller wooded areas, and removes most of 2 large wooded areas and associated wetland area (series of 5 ponds) <u>East Link</u> Alternative interrupts connectivity of creek floodplain vegetation (limited mature woody vegetation), as well as portion of wooded area adjacent to creek Alternative impacts approximatel y 80% of wooded area just north of Old School Rd. Impacts to approx. 50% of wooded area just north of 	 Alternative interrupts 4 wooded area vegetation communities associated with creeks Impacts one half of larger wooded area at far east section of alternative Alternative East Link Alternative interrupts connectivity of creek floodplain vegetation (limited mature woody vegetation), as well as portion of wooded area and hedgerow adjacent to creek Alternative impacts approx. 80% of wooded area just north of Old School Rd. Impacts/ removes wooded area just north of southern interchange Southern interchange removes large wooded area and associated wetland area 	 Alternative interrupts 4 wooded area vegetation communities associated with creeks, Alternative will impact/ remove 1 smaller wooded area off Hurontario St. at west end of section Impacts one half of larger wooded area at far east section of alternative Alternative East Link Alternative interrupts connectivity of creek floodplain vegetation (limited mature woody vegetation), as well as portion of wooded area and hedgerow adjacent to creek Alternative impacts approx. 80% of wooded area just north of Old School Rd. Alternative will remove entire wooded area just north of 	 Alternative interrupts connectivity of 3 wooded area vegetation communities associated with creeks Alternative will remove 100% of 3 separate smaller wooded areas and a min. of 50% of one larger wooded area Alternative interrupts connectivity of creek floodplain vegetation (limited mature woody vegetation), as well as portion of wooded area and hedgerow adjacent to creek Alternative impacts approx. 80% of wooded area just north of Old School Rd. Alternative will remove entire wooded area just north of southern interchange Southern interchange 	 Alternative interrupts connectivity of 3 wooded area vegetation communities associated with creeks Alternative impacts 3 additional smaller wooded areas, and removes most of 2 large wooded areas and associated wetland area (series of 5 ponds) East Link Alternative interrupts connectivity of creek floodplain vegetation (limited mature woody vegetation), as well as portion of wooded area and hedgerow adjacent to creek Alternative impacts approx. 80% of wooded area just north of Old School Rd. Alternative will remove entire wooded area

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors					Summ	ary of Potential N	let Effects and Ra	nking				
					removes large wooded area and associated wetland area		associated wetland area	southern interchange • Southern interchange removes large wooded area and associated wetland area	 Alternative skirts Caledon South Lands CA and may impact northern tip 	southern interchange Southern interchange removes large wooded area and associated wetland area Alternative skirts Caledon South Lands CA and may impact northern tip	removes large wooded area and associated wetland area • Alternative skirts Caledon South Lands CA and may impact northern tip	just north of southern interchange • Southern interchange removes large wooded area and associated wetland area Alternative skirts Caledon South Lands CA and may impact northern tip
	MODERATE NET EFFECT	HIGH NET EFFECT	HIGH NET EFFECT	HIGH NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	MODERATE NET EFFECT	LOW NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT
	RANKING: 8 th	RANKING: 10 th	RANKING: 12 th	RANKING: 11 th	RANKING: 1 st	RANKING: 3 rd	RANKING: 6 th	RANKING: 2 nd	RANKING: 4 th	RANKING: 7 th	RANKING: 9 th	RANKING: 5 th
	This alternative will affect large portions of wooded and upland vegetation communities. The number of interruptions to wooded vegetation corridors is also high.	This alternative will affect large portions of wooded and upland vegetation communities. This alternative will require fewer overall vegetation removals than S5-3 and S5-4.	This alternative will affect the greatest amount of vegetation communities and potentially significant woodland areas. The number of interruptions to wooded vegetation corridors is also high.	Similar to S5-3 in terms of number of vegetation communities and potentially significant woodlands affected. The number of interruptions to wooded vegetation corridors is also high.	This alternative has the least effect on overall connectivity of greenways and vegetation communities. It also requires the least amount of removals of potentially significant woodlands. Overall vegetation removals are marginally higher than S5-8.	This alternative has moderate impacts on vegetation communities in terms of area of removals required and number of vegetation community types.	This alternative has moderate effects on vegetation communities in terms of area of removals required and number of vegetation community types	This alternative has low effects on vegetation communities in terms of area of required and number of vegetation community types. Overall vegetation removal is marginally lower than S5-5 however amount of potentially significant woodland removals and overall interruptions to connectivity is higher.	This alternative has moderate effects on vegetation communities in terms of area of removals required and number of vegetation community types. This route will require fewer vegetation removals than S5-10 and S5- 12.	This alternative has moderate effects on vegetation communities in terms of area of removals required and number of vegetation community types.	This alternative effects large areas of vegetation communities (both linear/ connecting and woodlots).	This alternative has moderate effects on vegetation communities in terms of area of removals required and number of vegetation community types; fewer vegetation removals and interruptions to connectivity than S5-10.
2.7.3 Visual Impacts	 Diminished aesthetic quality of scenic views, reduced visual effect 	 Diminished aesthetic quality of scenic views, reduced visual effect 	 Diminished aesthetic quality of scenic views, reduced visual effect through 	 Diminished aesthetic quality of scenic views, reduced visual effect 	 Diminished aesthetic quality of scenic views, reduced visual effect 	Diminished aesthetic quality of scenic views, reduced visual effect	Diminished aesthetic quality of scenic views, reduced visual effect	Diminished aesthetic quality of scenic views, reduced visual effect	 Diminished aesthetic quality of scenic views, reduced 	Diminished aesthetic quality of scenic views, reduced visual effect	Diminished aesthetic quality of scenic views, reduced visual effect	Diminished aesthetic quality of scenic views, reduced visual effect

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors					Summ	ary of Potential N	let Effects and Ra	nking				
and Sub- Factors	through mitigation/co mpensation measures <u>West-East</u> <u>Mainline</u> • Sporadic sensitive viewers on Hurontario St. (5 residential to north) • Sensitive viewers from Kennedy Rd. include 7 sporadic residential properties, 2 farm	through mitigation/co mpensation measures <u>West-East</u> <u>Mainline</u> • Sporadic sensitive viewers on Hurontario St. (5 residential to north) • Sensitive viewers from Kennedy Rd. include 7 sporadic residential properties, 2 farm	mitigation/com pensation measures <u>West-East</u> <u>Mainline</u> • Sensitive viewers from Hurontario St. include 1 large residential development/ subdivision (under construction), 1 residential/ farm property to the south, and 5 residential and 2 farm/	through mitigation / compensatio n measures <u>West-East</u> <u>Mainline</u> • Sensitive viewers from Hurontario St. include 1 large residential development/ subdivision (under construction), 1 residential/ farm property to the south, and 5 residential	through mitigation/co mpensation measures <u>West-East</u> <u>Mainline</u> • Sporadic sensitive viewers on Hurontario St. (5 residential to north) • Sensitive viewers from Kennedy Rd. include 7 sporadic residential properties, 2 farm	through mitigation/co mpensation measures <u>West-East</u> <u>Mainline</u> • Sporadic sensitive viewers on Hurontario St. (5 residential to north) • Sensitive viewers from Kennedy Rd. include 7 sporadic residential properties, 2 farm	Act Effects and Ra through mitigation/co mpensation measures <u>West-East</u> <u>Mainline</u> Sensitive viewers from Hurontario St. include 1 residential/ farm property to the south, and 5 residential and 2 farm/ residential to the north Sensitive viewers from Kennedy Rd.	nking through mitigation/co mpensation measures <u>West-East</u> <u>Mainline</u> • Sensitive viewers from Hurontario include 1 residential/ farm property to the south, and 5 residential and 2 farm/ residential to the north • Sensitive viewers from Kennedy Rd.	visual effect through mitigation/co mpensation measures <u>West-East</u> <u>Mainline</u> • Sporadic sensitive viewers on Hurontario (5 residential to north) • Sensitive viewers from Kennedy Rd. include 7 sporadic residential properties, 2 farm	through mitigation/co mpensation measures <u>West-East</u> <u>Mainline</u> • Sporadic sensitive viewers on Hurontario (5 residential to north) • Sensitive viewers from Kennedy Rd. include 7 sporadic residential properties, 2 farm properties, 1	through mitigation/co mpensation measures <u>West-East</u> <u>Mainline</u> • Sensitive viewers from Hurontario include 1 large residential development/ subdivision (under construction), 1 residential/ farm property to the south, and 5 residential	through mitigation/co mpensation measures <u>West-East</u> <u>Mainline</u> • Sensitive viewers from Hurontario include 1 large residential development / subdivision (under construction) , 1 residential/ farm property to the south, and 5
	 properties, 1 commercial property and cluster of 8 residential properties Sensitive viewers from Heart Lake Rd. include 5 residential properties and 1 large commercial/ agricultural operation to the north, and 5 residential and 1 farm property to the south Sensitive viewers from Dixie Rd. include 7 residential properties and 1 large residential/ farm property 	 properties, 1 commercial property and cluster of 8 residential properties Sensitive viewers from Heart Lake Rd. include 5 residential properties and 1 large commercial/ agricultural operation to the north, and 5 residential and 1 farm property to the south Sensitive viewers from Dixie Rd. include 7 residential properties and 1 large residential/ farm 	 residential to the north Sensitive viewers from Kennedy Rd. include 1 residential and 1 residential/ farm to the north and 3 residential/far m properties to the south 13 residential properties on Old School Rd. would be sensitive viewers Sensitive viewers Sensitive viewers from Heart Lake Rd. include 9 residential properties and 2 farm properties Sensitive viewers from Heart Sensitive viewers from Dixie Rd. 	 and 2 farm/ residential to the north Sensitive viewers from Kennedy Rd. include 7 residential properties 11 residential properties and 1 farm/ residential on Old School Rd. would be sensitive viewers Sensitive viewers Sensitive viewers from Heart Lake Rd. include 11 residential properties and 1 farm properties Sensitive viewers from Dixie Rd. include 10 residential properties 	 properties, 1 commercial property and cluster of 8 residential properties Sensitive viewers from Heart Lake Rd. include 5 residential properties and 1 large commercial/ agricultural operation to the north, and 5 residential and 1 farm property to the south Sensitive viewers from Dixie Rd. include 7 residential properties and 1 large residential/ farm property 	 properties, 1 commercial property and cluster of 8 residential properties Sensitive viewers from Heart Lake Rd. include 5 residential properties and 1 large commercial/ agricultural operation to the north, and 5 residential and 1 farm property to the south Sensitive viewers from Dixie Rd. include 7 residential properties and 1 large residential/ farm property 	 include 1 residential and 1 residential/ farm to the north and 3 residential/far m properties to the south 13 residential properties on Old School Rd. would be sensitive viewers Sensitive viewers from Heart Lake Rd. include 9 residential properties and 2 farm properties Sensitive viewers from Dixie Rd. include 7 residential properties and 1 farm property 	 include 7 residential properties 11 residential properties and 1 farm/ residential on Old School Rd. would be sensitive viewers Sensitive viewers from Heart Lake Rd. include 11 residential properties and 1 farm properties Sensitive viewers from Dixie Rd. include 10 residential properties and 1 farm property 	 properties, 1 commercial property and cluster of 8 residential properties Sensitive viewers from Heart Lake Rd. include 5 residential properties and 1 large commercial/ agricultural operation to the north, and 5 residential and 1 farm property to the south Sensitive viewers from Dixie Rd. include 7 residential properties and 1 large residential residential 	 commercial property and cluster of 8 residential properties Sensitive viewers from Heart Lake Rd. include 5 residential properties and 1 large commercial/ agricultural operation to the north, and 5 residential and 1 farm property to the south Sensitive viewers from Dixie Rd. include 7 residential properties and 1 large residential properties and 1 large residential/ farm property to the north as well as 7 	 and 2 farm/ residential to the north Sensitive viewers from Kennedy Rd. include 1 residential and 1 residential/ farm to the north and 3 residential/far m properties to the south 13 residential properties on Old School Rd. would be sensitive viewers Sensitive viewers from Heart Lake Rd. include 9 residential properties and 2 farm properties Sensitive viewers from 	 and 5 residential and 2 farm/ residential to the north Sensitive viewers from Kennedy Rd. include 7 residential properties 11 residential properties and 1 farm/ residential on Old School Rd. would be sensitive viewers Sensitive viewers from Heart Lake Rd. include 11 residential properties and 1 farm properties Sensitive viewers Sensitive sensitive viewers Sensitive sensitive viewers Sensitive Sensitive sensitive
	to the north as well as 7	property to the north as	include 7	proportion	to the north as well as 7	to the north as well as 7	proporty	and	property to the north as	residential	Dixie Rd.	viewers from

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
Factors					Summ	ary of Potential N	let Effects and Ra	nking				
					Kennedy Rd. would be sensitive viewer • Low landscape absorptivity due to level topography and relatively open vistas and agricultural land use	sensitive viewer • Low landscape absorptivity due to level topography and relatively open vistas and agricultural land use	due to level topography and relatively open vistas and agricultural land use	and agricultural land use				
	MODERATE NET EFFECT	LOW NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT
	RANKING: 3 rd	RANKING: 3 rd	RANKING: 1 st	RANKING: 1 st	RANKING: 5 th	RANKING: 5 th	RANKING: 5 th	RANKING: 5 th	RANKING: 5 th	RANKING: 5 th	RANKING: 5 th	RANKING: 5 th
	Alignment has moderate effect on sensitive viewers, low spatial dominance and low landscape absorptivity.	Alignment has moderate effect on sensitive viewers, low spatial dominance and low landscape absorptivity.	Fewest number of sensitive viewers and low spatial dominance make this one of the preferred alternatives, also has low landscape absorptivity similar to other alternatives.	Fewest number of sensitive viewers and low spatial dominance make this one of the preferred alternatives, also has low landscape absorptivity similar to other alternatives.	Alignment has overall greatest effects on sensitive viewers including new residential community off Kennedy Rd in south portion of alternative.	Alignment has overall greatest effects on sensitive viewers including new residential community off Kennedy Rd in south portion of alternative.	Alignment has overall greatest effects on sensitive viewers including new residential community off Kennedy Rd in south portion of alternative.	Alignment has overall greatest effects on sensitive viewers including new residential community off Kennedy Rd in south portion of alternative.	Similar to alternatives S5-5 through S5-8 in terms of number of sensitive viewers, low spatial dominance and low landscape absorptivity.	Similar to alternatives S5-5 through S5-8 in terms of number of sensitive viewers, low spatial dominance and low landscape absorptivity.	Similar to alternatives S5-5 through S5-8 in terms of number of sensitive viewers, low spatial dominance and low landscape absorptivity.	Similar to alternatives S5-5 through S5-8 in terms of number of sensitive viewers, low spatial dominance and low landscape absorptivity.
2.7.4 Aesthetics	West-East Mainline• Areas of greater scenic interest and higher aesthetic value are concentrated in western half of alternative• Kennedy Rd. is high quality scenic corridor with more mature	West-East Mainline• Areas of greater scenic interest and higher aesthetic value are concentrated in western half of alternative• Kennedy Rd. is high quality scenic corridor with more mature	West-East Mainline• Areas of greater scenic interest and higher aesthetic value are concentrated in western half of alternative• Kennedy Rd. is high quality scenic corridor with more mature street trees and established	West-East Mainline• Areas of greater scenic interest and higher aesthetic value are concentrated in western half of alternative• Kennedy Rd. is high quality scenic corridor with more mature street trees and	West-East <u>Mainline</u> • Areas of greater scenic interest and higher aesthetic value are concentrated in western half of alternative • Kennedy Rd. is high quality scenic corridor with more mature street trees	West-East Mainline• Areas of greater scenic interest and higher aesthetic value are concentrated in western half of alternative• Kennedy Rd. is high quality scenic corridor with more mature	West-East Mainline• Areas of greater scenic interest and higher aesthetic value are concentrated in western half of alternative• Kennedy Rd. is high quality scenic corridor with more mature street trees and ostablished	West-East Mainline• Areas of greater scenic interest and higher aesthetic value are concentrated in western half of alternative• Kennedy Rd. is high quality scenic corridor with more mature street trees and	West-East Mainline• Areas of greater scenic interest and higher aesthetic value are concentrated in western half of alternative• Kennedy Rd. is high quality scenic corridor with more mature	West-East Mainline• Areas of greater scenic interest and higher aesthetic value are concentrated in western half of alternative• Kennedy Rd. is high quality scenic corridor with more mature street trees and	West-East Mainline• Areas of greater scenic interest and higher aesthetic value are concentrated in western half of alternative• Kennedy Rd. is high quality scenic corridor with more mature street trees and	West-East Mainline• Areas of greater scenic interest and higher aesthetic value are concentrated in western half of alternative• Kennedy Rd. is high quality scenic corridor with more mature

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
Factors					Summ	ary of Potential N	let Effects and Ra	nking				
	and established hedgerows framing views, as well as scenic heritage farmsteads and rural properties <u>West Link</u> • Scenic views from Hurontario St. to the east and west crossing over Etobicoke Creek and valley and associated vegetation	and established hedgerows framing views, as well as scenic heritage farmsteads and rural properties <u>West Link</u> • Scenic views from Hurontario St. to the east and west crossing over Etobicoke Creek and valley and associated vegetation	framing views, as well as scenic heritage farmsteads and rural properties • Alternative will impact scenic integrity of views along Old School Rd. in west half of alternative <u>West Link</u> • Scenic views from Hurontario St. to the east and west crossing over Etobicoke Creek and valley and associated vegetation	established hedgerows framing views, as well as scenic heritage farmsteads and rural properties • Alternative will impact scenic integrity of views along Old School Rd. in west half of alternative <u>West Link</u> • Scenic views from Hurontario St. to the east and west crossing over Etobicoke Creek and valley and associated vegetation	established hedgerows framing views, as well as scenic heritage farmsteads and rural properties	and established hedgerows framing views, as well as scenic heritage farmsteads and rural properties <u>East Link</u> • Much of alternative characterize d by relatively open views across agricultural area; views to west of new residential development	hedgerows framing views, as well as scenic heritage farmsteads and rural properties • Alternative will impact scenic integrity of views along Old School Rd. in west half of alternative <u>East Link</u> • Much of • Much of alternative characterized by relatively open views across agricultural area; views to west of new residential development	established hedgerows framing views, as well as scenic heritage farmsteads and rural properties • Alternative will impact scenic integrity of views along Old School Rd. in west half of alternative <u>East Link</u> • Much of alternative characterized by relatively open views across agricultural area; views to west of new residential development	and established hedgerows framing views, as well as scenic heritage farmsteads and rural properties <u>East Link</u> • Much of alternative characterize d by relatively open views across agricultural area; more distant views to west of new residential development • Opportunitie s for scenic views of conservation area	 established hedgerows framing views, as well as scenic heritage farmsteads and rural properties East Link Much of alternative characterized by relatively open views across agricultural area; more distant views to west of new residential development Opportunities for scenic views of conservation area 	 established hedgerows framing views, as well as scenic heritage farmsteads and rural properties Alternative will impact scenic integrity of views along Old School Rd. in west half of alternative <u>Bast Link</u> Much of alternative characterized by relatively open views across agricultural area; more distant views to west of new residential development Opportunities for scenic views of conservation area 	 and established hedgerows framing views, as well as scenic heritage farmsteads and rural properties Alternative will impact scenic integrity of views along Old School Rd. in west half of alternative <u>East Link</u> Much of alternative characterize d by relatively open views across agricultural area; more distant views to west of new residential development Opportunitie s for scenic views of conservation area
	LOW NET EFFECT	LOW NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT
	RANKING: 1 st	RANKING: 1 st	RANKING: 3rd	RANKING: 3 rd	RANKING: 9 th	RANKING: 9 th	RANKING: 11 th	RANKING: 11 th	RANKING: 5 th	RANKING: 5 th	RANKING: 7 th	RANKING: 7 th
	This alternative utilizes the existing transportation corridor which creates fewer	This alternative utilizes the existing transportation corridor which creates fewer	This alternative also utilizes the existing transportation corridor creating lower overall	This alternative also utilizes the existing transportation corridor creating lower overall	Similar to alternatives S5-6, S5-7, S5-8; more northern alignment of West-East	Similar to alternatives S5- 5, S5-7, S5-8, more northern alignment of West-East	Similar to alternatives S5-5 and S5-6, moderate impacts; more southerly	Similar to alternatives S5-5 and S5-6 moderate impacts; more southerly	Similar to alternatives S5- 10, S5-11, S5-12 with, moderate impacts; more northern	Similar to alternatives S5-9, S5-11, S5-12 with moderate impacts; more northern	Similar to other alternatives S5-9 and S5-1-with moderate impacts; more southerly	Similar to other alternatives S5-9 and S5-1-with moderate impacts; more southerly
	overall effects on aesthetic quality	overall effects on aesthetic quality	eπects on new sensitive viewers.	eπects on new sensitive viewers.	fewer aesthetic	fewer aesthetic	greater effects	greater effects	alignment of West-East	alignment of West-East	alignment creates somewhat	alignment creates

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
Factors					Summ	ary of Potential N	let Effects and Ra	nking				
	and scenic composition. The more northerly alignment of the West-East leg of alternative also has fewer effects.	and scenic composition. The more northerly alignment of the West-East leg of alternative also has fewer effects.			impacts than alternatives S5-7 and S5-8.	impacts than alternatives S5-7 and S5-8.	than S5-5 and S5- 6	than S5-5 and S5-6	Mainline creates fewer aesthetic impacts than alternatives S5- 11 and S5-12	Mainline creates fewer aesthetic effects than alternativesS5-11 and S5-12	greater effects than S5-9 and S5-10	somewhat greater effects than S5-9 and S5-10
3.0 Cultural Er	nvironment											
3.1 Built Herita	age Resources and	Cultural Heritage	Landscapes									
3.1.1 Built Heritage Resources	• There are 1 listed (BHR 124) and 5 potential (BHR 126, BHR 132, BHR 148, BHR 149 and BHR 150) BHRs affected by this alternative	• There are 2 listed (BHR 119, BHR 124) and 5 potential (BHR 126, BHR 132, BHR 148, BHR 149 and BHR 150) BHRs affected by this alternative.	• There are 1 designated (BHR 147), 1 listed (BHR 124) and 4 potential (BHR 126, BHR 131, BHR 148 and BHR 149) BHRs affected by this alternative	• There are 1 designated (BHR 147), 1 listed (BHR 124) and 2 potential (BHR 126 and BHR 148) BHRs affected by this alternative	• There are 4 potential (BHR 126, BHR 132, BHR 148 and BHR 149) BHRs affected by this alternative	• There are 3 potential (BHR 132, BHR 148 and BHR 149) BHRs affected by this alternative	• There are 2 potential (BHR 148 and BHR 149) and 1 listed (BHR 124) BHRs effected by this alternative	• There is 1 listed (BHR 124) BHR affected by this alternative	• There are 3 potential (BHR 132, BHR 148 and BHR 149) BHRs effected by this alternative	There are 3 potential (BHR 132, BHR 148 and BHR 149) BHRs effected by this alternative	• There are 2 potential (BHR 148 and BHR149) and 1 listed (BHR 124) BHRs effected by this alternative	• There is 1 listed (BHR 124) BHR affected by this alternative
	HIGH NET EFFECT	MODERATE NET EFFECT	HIGH NET EFFECT	HIGH NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	LOW NET EFFECT
	RANKING: 10 th There are 1 listed and 5 potential BHRs affected by this alternative which will require further evaluation in order to determine their cultural heritage value and interest. Once cultural heritage value and interest has been determined, avoidance, protection and mitigation measures must be completed	RANKING: 2 nd There are 2 listed and 5 potential BHRs affected by this alternative which will require further evaluation in order to determine their cultural heritage value and interest. Once cultural heritage value and interest has been determined, avoidance, protection and mitigation measures must be completed	RANKING: 10 th There are 1 designated, 1 listed and 4 potential BHRs affected by this alternative which will require further evaluation in order to determine their cultural heritage value and interest. Once cultural heritage value and interest has been determined, avoidance, protection and mitigation measures must be completed	RANKING: 10 th There are 1 designated, 1 listed and 2 potential BHRs affected by this alternative which will require further evaluation in order to determine their cultural heritage value and interest. Once cultural heritage value and interest has been determined, avoidance, protection and mitigation measures must be completed	RANKING: 2 nd There are 4 potential BHRs affected by this alternative which will require further evaluation in order to determine their cultural heritage value and interest. Once cultural heritage value and interest has been determined, avoidance, protection and mitigation measures must be completed	RANKING: 2 nd There are 3 potential BHRs affected by this alternative which will require further evaluation in order to determine their cultural heritage value and interest. Once cultural heritage value and interest has been determined, avoidance, protection and mitigation measures must be completed	RANKING: 2 nd There are 2 potential and 1 listed BHRs affected by this alternative which will require further evaluation in order to determine their cultural heritage value and interest. Once cultural heritage value and interest has been determined, avoidance, protection and mitigation measures must be completed	RANKING: 2 nd There is 1 listed BHR affected by this alternative.	RANKING: 2 nd There are 3 potential BHRs effected by this alternative which will require further evaluation in order to determine their cultural heritage value and interest. Once cultural heritage value and interest has been determined, avoidance, protection and mitigation measures must be completed	RANKING: 2 nd There are 3 potential BHRs affected by this alternative which will require further evaluation in order to determine their cultural heritage value and interest. Once cultural heritage value and interest has been determined, avoidance, protection and mitigation measures must be completed	RANKING: 2 nd There are 2 potential and 1 listed BHRs affected by this alternative which will require further evaluation in order to determine their cultural heritage value and interest. Once cultural heritage value and interest has been determined, avoidance, protection and mitigation measures must be completed	RANKING: 1 st There is 1 listed BHR affected by this alternative which will require further evaluation.

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
Factors					Summ	nary of Potential N	let Effects and Ra	nking				
3.1.2 Heritage Bridges	• There are no Heritage Bridges affected by this alternative	• There are no Heritage Bridges affected by this alternative	There are no Heritage Bridges affected by this alternative	• There are no Heritage Bridges affected by this alternative	• There are no Heritage Bridges effected by this alternative	There are no Heritage Bridges effected by this alternative	• There are no Heritage Bridges effected by this alternative	• There are no Heritage Bridges effected by this alternative				
	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT
	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
	There are no Heritage Bridges affected by this alternative	There are no Heritage Bridges affected by this alternative	There are no Heritage Bridges affected by this alternative	There are no Heritage Bridges affected by this alternative	There are no Heritage Bridges affected by this alternative	There are no Heritage Bridges affected by this alternative	There are no Heritage Bridges affected by this alternative	There are no Heritage Bridges affected by this alternative	There are no Heritage Bridges effected by this alternative	There are no Heritage Bridges effected by this alternative	There are no Heritage Bridges effected by this alternative	There are no Heritage Bridges effected by this alternative
3.1.3 Cultural Heritage Landscapes	• There is 1 potential (CHL125) CHL affected by this alternative	• There are 3 potential (CHL 120, CHL 121 and CHL 125) CHL affected by this alternative	• There are 4 potential (CHL 120, CHL 121, CHL 125 and CHL 137) CHLs and one listed (CHL 122) CHLS affected by this alternative	• There are 4 potential (CHL 121, CHL 125, CHL 131 and CHL 137) CHLs affected by this alternative	• There are 3 potential (CHL 125, CHL 133 and CHL 134) CHLs affected by this alternative	• There are 3 potential (CHL 125, CHL 133 and CHL 134) CHLs affected by this alternative	• There are 4 potential (CHL 125, CHL 133, CHL 134 and CHL 137) CHLs affected by this alternative	• There are 5 potential (CHL 125, CHL 131, CHL 133, CHL 134 and CHL 137) CHLs affected by this alternative	• There is 1 potential (CHL 125) CHL effected by this alternative	• There is 1 potential (CHL 125) CHL effected by this alternative	There are 2 potential (CHL 137 and CHL 125) CHLs effected by this alternative	• There are 3 potential (CHL 125, CHL 131 and CHL 137) CHLs effected by this alternative
	LOW NET EFFECT	LOW NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	MODERATE NET EFFECT	HIGH NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	MODERATE NET EFFECT
	RANKING: 1 st	RANKING: 1 st	RANKING: 6 th	RANKING: 6 th	RANKING: 6 th	RANKING: 6 th	RANKING: 6 th	RANKING: 12 th	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 6 th
	There is 1 potential CHL affected by this alternative which will require further evaluation in order to determine their cultural heritage value and interest. Once cultural heritage value and interest has been determined, avoidance, protection and mitigation measures must be completed	There are 3 potential CHL affected by this alternative which will require further evaluation in order to determine their cultural heritage value and interest. Once cultural heritage value and interest has been determined, avoidance, protection and mitigation measures must be completed	There are 4 potential CHLs and 1 listed CHL affected by this alternative which will require further evaluation in order to determine their cultural heritage value and interest. Once cultural heritage value and interest has been determined, avoidance, protection and mitigation measures must be completed	There are 4 potential CHLs affected by this alternative which will require further evaluation in order to determine their cultural heritage value and interest. Once cultural heritage value and interest has been determined, avoidance, protection and mitigation measures must be completed	There are 3 potential CHLs affected by this alternative which will require further evaluation in order to determine their cultural heritage value and interest. Once cultural heritage value and interest has been determined, avoidance, protection and mitigation measures must be completed	There are 3 potential CHLs affected by this alternative which will require further evaluation in order to determine their cultural heritage value and interest. Once cultural heritage value and interest has been determined, avoidance, protection and mitigation measures must be completed	There are 3 potential CHLs affected by this alternative which will require further evaluation in order to determine their cultural heritage value and interest. Once cultural heritage value and interest has been determined, avoidance, protection and mitigation measures must be completed	There are 5 potential CHLs affected by this alternative which will require further evaluation in order to determine their cultural heritage value and interest. Once cultural heritage value and interest has been determined, avoidance, protection and mitigation measures must be completed	There is 1 potential CHL affected by this alternative which will require further evaluation in order to determine their cultural heritage value and interest. Once cultural heritage value and interest has been determined, avoidance, protection and mitigation measures must	There is 1 potential CHL affected by this alternative which will require further evaluation in order to determine their cultural heritage value and interest. Once cultural heritage value and interest has been determined, avoidance, protection and mitigation measures must be completed	There are 2 potential CHLs effected by this alternative which will require further evaluation in order to determine their cultural heritage value and interest. Once cultural heritage value and interest has been determined, avoidance, protection and mitigation measures must be completed	There are 3 potential CHLs effected by this alternative which will require further evaluation in order to determine their cultural heritage value and interest. Once cultural heritage value and interest has been determined, avoidance, protection and mitigation measures must be completed

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors					Summ	ary of Potential N	let Effects and Ra	nking				
3.2 Archaeolog	ду											
3.2.1 Pre- Contact and Contact Indigenous Archaeologic al Sites	• No registered sites, however archaeologic al potential is present within much of this alternative	 No registered sites, however archaeologic al potential is present within much of this alternative 	• No registered sites, however archaeological potential is present within much of this alternative	• No registered sites, however archaeologic al potential is present within much of this alternative	• No registered sites, however archaeologic al potential is present within much of this alternative	• No registered sites, however archaeologic al potential is present within much of this alternative	• No registered sites, however archaeologica I potential is present within much of this alternative	• No registered sites, however archaeologic al potential is present within much of this alternative	• One registered site which has been mitigated and no further work is required, however archaeologic al potential is present within much of this alternative	 No registered sites, however archaeologic al potential is present within much of this alternative 	• No registered sites, however archaeologic al potential is present within much of this alternative	• No registered sites, however archaeologic al potential is present within much of this alternative
	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT	LOW NET EFFECT
	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
	No registered pre-contact and contact Indigenous sites are present within this alternative. This alternative covers 232 hectares of undisturbed land containing archaeological potential.	No registered pre-contact and contact Indigenous sites are present within this alternative. This alternative covers 236 hectares of undisturbed land containing archaeological potential.	No registered pre- contact and contact Indigenous sites are present within this alternative. This alternative covers 220 hectares of undisturbed land containing archaeological potential.	No registered pre-contact and contact Indigenous sites are present within this alternative. This alternative covers 220 hectares of undisturbed land containing archaeological potential.	No registered pre-contact and contact Indigenous sites are present within this alternative. This alternative covers 294 hectares of undisturbed land containing archaeological potential.	No registered pre-contact and contact Indigenous sites are present within this alternative. This alternative covers 296 hectares of undisturbed land containing archaeological potential.	No registered pre- contact and contact Indigenous sites are present within this alternative. This alternative covers 294 hectares of undisturbed land containing archaeological potential.	No registered pre-contact and contact Indigenous sites are present within this alternative. This alternative covers 291 hectares of undisturbed land containing archaeological potential.	No registered pre-contact and contact Indigenous sites are present within this alternative. This alternative covers 301 hectares of undisturbed land containing archaeological potential.	No registered pre-contact and contact Indigenous sites are present within this alternative. This alternative covers 302 hectares of undisturbed land containing archaeological potential.	No registered pre-contact and contact Indigenous sites are present within this alternative. This alternative covers 302 hectares of undisturbed land containing archaeological potential.	No registered pre-contact and contact Indigenous sites are present within this alternative. This alternative covers 292 hectares of undisturbed land containing archaeological potential.
3.2.2 Historic Euro- Canadian Archaeologic al Sites	 No registered sites, however archaeologic al potential is present within much of this alternative LOW NET EFFECT 	No registered sites, however archaeologic al potential is present within much of this alternative LOW NET EFFECT RANKING: 1 st	 No registered sites, however archaeological potential is present within much of this alternative LOW NET EFFECT RANKING: 1st 	 No registered sites, however archaeologic al potential is present within much of this alternative LOW NET EFFECT RANKING: 1st 	 1 registered site and archaeologic al potential is present within much of this alternative MODERATE NET EFFECT RANKING: 5th 	 1 registered site and archaeologic al potential is present within much of this alternative MODERATE NET EFFECT 	1 registered site and archaeologica I potential is present within much of this alternative MODERATE NET EFFECT RANKING: 5 th	1 registered site and archaeologic al potential is present within much of this alternative MODERATE NET EFFECT RANKING: 5 th	1 registered site and archaeologic al potential is present within much of this alternative MODERATE NET EFFECT RANKING: 5 th	 1 registered site and archaeologic al potential is present within much of this alternative MODERATE NET EFFECT RANKING: 5th 	 1 registered site and archaeologic al potential is present within much of this alternative MODERATE NET EFFECT RANKING: 5th 	 1 registered site and archaeologic al potential is present within much of this alternative MODERATE NET EFFECT RANKING: 5th
	No registered Historic Euro-	No registered Historic Euro-	No registered Historic Euro-	No registered Historic Euro-	1 known archaeological	1 known archaeological	1 known archaeological	1 known archaeological	1 known archaeological	1 known archaeological	1 known archaeological	1 known archaeological

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
Factors					Summ	ary of Potential N	let Effects and Ra	nking				
	Canadian Archaeological Sites are present within this alternative. This alternative covers 232 hectares of undisturbed land containing archaeological potential.	Canadian Archaeological Sites are present within this alternative. This alternative covers 236 hectares of undisturbed land containing archaeological potential.	Canadian Archaeological Sites are present within this alternative. This alternative covers 220 hectares of undisturbed land containing archaeological potential.	Canadian Archaeological Sites are present within this alternative. This alternative covers 220 hectares of undisturbed land containing archaeological potential.	site of unknown status is present within this alternative. This alternative covers 294 hectares of undisturbed land containing archaeological potential.	site of unknown status is present within this alternative. This alternative covers 296 hectares of undisturbed land containing archaeological potential.	site of unknown status is present within this alternative. This alternative covers 294 hectares of undisturbed land containing archaeological potential.	site of unknown status is present within this alternative. This alternative covers 291 hectares of undisturbed land containing archaeological potential.	site of unknown status is present within this alternative. This alternative covers 301 hectares of undisturbed land containing archaeological potential.	site of unknown status is present within this alternative. This alternative covers 302 hectares of undisturbed land containing archaeological potential.	site of unknown status is present within this alternative. This alternative covers 302 hectares of undisturbed land containing archaeological potential.	site of unknown status is present within this alternative. This alternative covers 292 hectares of undisturbed land containing archaeological potential.
3.2.3 Indigenous Burial Sites	 No known or reported Indigenous Burial Sites 	 No known or reported Indigenous Burial Sites 	 No known or reported Indigenous Burial Sites 	 No known or reported Indigenous Burial Sites 	 No known or reported Indigenous Burial Sites 	 No known or reported Indigenous Burial Sites 	 No known or reported Indigenous Burial Sites 	No known or reported Indigenous Burial Sites	 No known or reported Indigenous Burial Sites 	 No known or reported Indigenous Burial Sites 	 No known or reported Indigenous Burial Sites 	 No known or reported Indigenous Burial Sites
	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT
	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.	No difference between alternatives.
3.2.4 Cemeteries	 No cemeteries present within this alternative LOW NET 	 No cemeteries present within this alternative LOW NET 	 No cemeteries present within this alternative LOW NET 	 No cemeteries present within this alternative LOW NET 	 No cemeteries present within this alternative LOW NET 	 No cemeteries present within this alternative LOW NET 	 No cemeteries present within this alternative LOW NET 	 No cemeteries present within this alternative LOW NET 	 No cemeteries present within this alternative LOW NET 	 No cemeteries present within this alternative LOW NET 	 No cemeteries present within this alternative LOW NET 	 No cemeteries present within this alternative LOW NET
	EFFECT	EFFECT	EFFECT	EFFECT	EFFECT		EFFECT	EFFECT	EFFECT			EFFECT
	No registered cemeteries are present within this alternative. 232 hectares of undisturbed land containing archaeological potential.	No registered cemeteries are present within this alternative. 236 hectares of undisturbed land containing archaeological potential.	No registered cemeteries are present within this alternative. 220 hectares of undisturbed land containing archaeological potential.	No registered cemeteries are present within this alternative. 220 hectares of undisturbed land containing archaeological potential.	No registered cemeteries are present within this alternative. 294 hectares of undisturbed land containing archaeological potential.	No registered cemeteries are present within this alternative. 296 hectares of undisturbed land containing archaeological potential.	No registered cemeteries are present within this alternative. 294 hectares of undisturbed land containing archaeological potential.	No registered cemeteries are present within this alternative. 291 hectares of undisturbed land containing archaeological potential.	No registered cemeteries are present within this alternative. 301 hectares of undisturbed land containing archaeological potential.	No registered cemeteries are present within this alternative. 302 hectares of undisturbed land containing archaeological potential.	No registered cemeteries are present within this alternative. 302 hectares of undisturbed land containing archaeological potential.	No registered cemeteries are present within this alternative. 292 hectares of undisturbed land containing archaeological potential.
4.0 Transporta	tion	· · · · ·	•				· · · · ·	· · · · · · · · · · · · · · · · · · ·			· · · ·	
4.1 System Ca	pacity & Efficiency	,										
4.1.1 Movement of People	Supports efficient movement of people.	Supports efficient movement of people.	Supports efficient movement of people.	Supports efficient movement of people.	Supports efficient movement of people.	Supports efficient movement of people.	Supports efficient movement of people.	Supports efficient movement of people.	Supports efficient movement of people.	Supports efficient movement of people.	Supports efficient movement of people.	Supports efficient movement of people.

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
Factors					Summ	ary of Potential N	Net Effects and Ra	nking				
	 Improves transportatio n options for travellers. 	 Improves transportatio n options for travellers. 	 Improves transportation options for travellers. 	Improves transportation options for travellers.	Improves transportatio n options for travellers.	 Improves transportatio n options for travellers. 	Improves transportation options for travellers.	Improves transportation options for travellers.	 Improves transportatio n options for travellers. 	 Improves transportation options for travellers. 	Improves transportation options for travellers.	Improves transportatio n options for travellers.
	HIGH CAPACITY & EFFICIENCY	HIGH CAPACITY & EFFICIENCY	HIGH CAPACITY & EFFICIENCY	HIGH CAPACITY & EFFICIENCY	HIGH CAPACITY & EFFICIENCY	HIGH CAPACITY & EFFICIENCY	HIGH CAPACITY & EFFICIENCY	HIGH CAPACITY & EFFICIENCY				
	RANKING: 1 st											
	Comparable net effect to other alternatives											
4.1.2 Movement of Goods	 Supports efficient movement of goods. 	 Supports efficient movement of goods 	 Supports efficient movement of goods 	Supports efficient movement of goods	 Supports efficient movement of goods 	Supports efficient movement of goods						
	HIGH CAPACITY & EFFICIENCY	HIGH CAPACITY & EFFICIENCY	HIGH CAPACITY & EFFICIENCY	HIGH CAPACITY & EFFICIENCY	HIGH CAPACITY & EFFICIENCY	HIGH CAPACITY & EFFICIENCY	HIGH CAPACITY & EFFICIENCY	HIGH CAPACITY & EFFICIENCY				
	RANKING: 1 st											
	Comparable net effect to other alternatives											
4.1.3 System performance during peak periods	 Improves system performance during peak periods. 											
	HIGH PERFORMANCE	HIGH PERFORMANC E	HIGH PERFORMANCE	HIGH PERFORMANCE	HIGH PERFORMANCE	HIGH PERFORMANC E	HIGH PERFORMANCE	HIGH PERFORMANCE	HIGH PERFORMANCE	HIGH PERFORMANCE	HIGH PERFORMANCE	HIGH PERFORMANC E
	RANKING: 1 st											
	Comparable net effect to other alternatives											
4.2 System reliability / redundancy	 Supports system reliability and redundancy. 	• Supports system reliability and redundancy.	 Supports system reliability and redundancy. 	 Supports system reliability and redundancy. 	• Supports system reliability and redundancy.	 Supports system reliability and redundancy. 	 Supports system reliability and redundancy. 	Supports system reliability and redundancy.	• Supports system reliability and redundancy.			
	HIGH RELIABILITY / REDUNDANCY											
	RANKING: 1 st											

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
Factors					Summ	ary of Potential N	let Effects and Ra	nking				
	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives
4.3 Safety												
4.3.1 Traffic Safety	Improves traffic safety.	Improves traffic safety.	Improves traffic safety.	Improves traffic safety.	Improves traffic safety.	Improves traffic safety.	Improves traffic safety.	Improves traffic safety.	Improves traffic safety.	 Improves traffic safety. 	Improves traffic safety.	Improves traffic safety.
	HIGH POTENTIAL FOR	HIGH POTENTIAL FOR	HIGH POTENTIAL FOR	HIGH POTENTIAL FOR IMPROVEMENT	HIGH POTENTIAL FOR	HIGH POTENTIAL FOR	HIGH POTENTIAL FOR	HIGH POTENTIAL FOR	HIGH POTENTIAL FOR	HIGH POTENTIAL FOR	HIGH POTENTIAL FOR	HIGH POTENTIAL FOR
	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives
4.3.2 Emergency Access	Supports emergency service access / routing.	Supports emergency service access / routing.	Supports emergency service access / routing.	• Supports emergency service access / routing.	Supports emergency service access / routing.	Supports emergency service access / routing.	Supports emergency service access / routing.	Supports emergency service access / routing.	Supports emergency service access / routing.	 Supports emergency service access / routing. 	Supports emergency service access / routing.	Supports emergency service access / routing.
	HIGH ACCESS	HIGH ACCESS	HIGH ACCESS	HIGH ACCESS	HIGH ACCESS	HIGH ACCESS	HIGH ACCESS	HIGH ACCESS	HIGH ACCESS	HIGH ACCESS	HIGH ACCESS	HIGH ACCESS
	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives
4.4 Mobility &	Accessibility											
4.4.1 Modal integration and balance	 Improves transportatio n options for travellers. 	 Improves transportatio n options for travellers. 	 Improves transportation options for travellers. 	Improves transportation options for travellers.	 Improves transportatio n options for travellers. 	 Improves transportatio n options for travellers. 	 Improves transportation options for travellers. 	 Improves transportation options for travellers. 	 Improves transportatio n options for travellers. 	 Improves transportation options for travellers. 	 Improves transportation options for travellers. 	 Improves transportatio n options for travellers.
	HIGH POTENTIAL FOR IMPROVEMENT	HIGH POTENTIAL FOR IMPROVEMENT	HIGH POTENTIAL FOR IMPROVEMENT	HIGH POTENTIAL FOR IMPROVEMENT	HIGH POTENTIAL FOR IMPROVEMENT	HIGH POTENTIAL FOR IMPROVEMENT	HIGH POTENTIAL FOR IMPROVEMENT	HIGH POTENTIAL FOR IMPROVEMENT	HIGH POTENTIAL FOR IMPROVEMENT	HIGH POTENTIAL FOR IMPROVEMENT	HIGH POTENTIAL FOR IMPROVEMENT	HIGH POTENTIAL FOR IMPROVEMENT
	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives

Evaluation	Alternative S5-	Alternative S5-	Alternative S5-3	Alternative S5-	Alternative S5-	Alternative	Alternative S5-	Alternative S5-	Alternative	Alternative S5-	Alternative S5-	Alternative
Factors	1	2		4	5	S5-6	7	8	S5-9	10 - Preferred	11	S5-12
and Sub- Factors					Summ	ary of Potential N	Net Effects and Ra	nking				
4.4.2	Improves	 Improves	 Improves	 Improves	 Improves	 Improves	 Improves	Improves	 Improves	 Improves	 Improves	Improves
Linkages to	linkages to	linkages to	linkages to	linkages to	linkages to	linkages to	linkages to	linkages to	linkages to	linkages to	linkages to	linkages to
Population	population	population	population	population	population	population	population	population	population	population	population	population
and	and	and	and	and	and	and	and	and	and	and	and	and
Employment	employment	employment	employment	employment	employment	employment	employment	employment	employment	employment	employment	employment
Centres	centres.	centres.	centres.	centres.	centres.	centres.	centres.	centres.	centres.	centres.	centres.	centres.
	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH
	ACCESSIBILITY	ACCESSIBILITY	ACCESSIBILITY	ACCESSIBILITY	ACCESSIBILITY	ACCESSIBILITY	ACCESSIBILITY	ACCESSIBILITY	ACCESSIBILITY	ACCESSIBILITY	ACCESSIBILITY	ACCESSIBILITY
	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
	Comparable net	Comparable net	Comparable net	Comparable net	Comparable net	Comparable net	Comparable net	Comparable net	Comparable net	Comparable net	Comparable net	Comparable net
	effect to other	effect to other	effect to other	effect to other	effect to other	effect to other	effect to other	effect to other	effect to other	effect to other	effect to other	effect to other
	alternatives	alternatives	alternatives	alternatives	alternatives	alternatives	alternatives	alternatives	alternatives	alternatives	alternatives	alternatives
4.4.3	 Supports	 Supports	Supports recreation and tourism travel.	 Supports	 Supports	 Supports	 Supports	 Supports	 Supports	 Supports	 Supports	 Supports
Recreation	recreation	recreation		recreation	recreation	recreation	recreation	recreation	recreation	recreation	recreation	recreation
and Tourism	and tourism	and tourism		and tourism	and tourism	and tourism	and tourism	and tourism	and tourism	and tourism	and tourism	and tourism
Travel	travel.	travel.		travel.	travel.	travel.	travel.	travel.	travel.	travel.	travel.	travel.
	HIGH SUPPORT	HIGH SUPPORT	HIGH SUPPORT	HIGH SUPPORT	HIGH SUPPORT	HIGH SUPPORT	HIGH SUPPORT	HIGH SUPPORT	HIGH SUPPORT	HIGH SUPPORT	HIGH SUPPORT	HIGH SUPPORT
	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
	Comparable net	Comparable net	Comparable net	Comparable net	Comparable net	Comparable net	Comparable net	Comparable net	Comparable net	Comparable net	Comparable net	Comparable net
	effect to other	effect to other	effect to other	effect to other	effect to other	effect to other	effect to other	effect to other	effect to other	effect to other	effect to other	effect to other
	alternatives	alternatives	alternatives	alternatives	alternatives	alternatives	alternatives	alternatives	alternatives	alternatives	alternatives	alternatives
4.4.4 Accommodati on for pedestrians, cyclists, snowmobiles, and specialized vehicles	 High potential to accommodat e pedestrians, cyclists and specialized vehicles at grade separated crossings. HIGH ACCOMMODATI ON 	 High potential to accommodat e pedestrians, cyclists and specialized vehicles at grade separated crossings. HIGH ACCOMMODATI ON 	 High potential to accommodate pedestrians, cyclists and specialized vehicles at grade separated crossings. HIGH ACCOMMODATI ON 	 High potential to accommodat e pedestrians, cyclists and specialized vehicles at grade separated crossings. HIGH ACCOMMODATI ON 	 High potential to accommodat e pedestrians, cyclists and specialized vehicles at grade separated crossings. HIGH ACCOMMODATI ON 	 High potential to accommodat e pedestrians, cyclists and specialized vehicles at grade separated crossings. HIGH ACCOMMODATI ON 	 High potential to accommodate pedestrians, cyclists and specialized vehicles at grade separated crossings. HIGH ACCOMMODATI ON 	 High potential to accommodat e pedestrians, cyclists and specialized vehicles at grade separated crossings. HIGH ACCOMMODATI ON 	 High potential to accommodat e pedestrians, cyclists and specialized vehicles at grade separated crossings. HIGH ACCOMMODATI ON 	 High potential to accommodat e pedestrians, cyclists and specialized vehicles at grade separated crossings. HIGH ACCOMMODATI ON 	 High potential to accommodat e pedestrians, cyclists and specialized vehicles at grade separated crossings. HIGH ACCOMMODATI ON 	 High potential to accommodat e pedestrians, cyclists and specialized vehicles at grade separated crossings. HIGH ACCOMMODATI ON
	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
	Comparable net	Comparable net	Comparable net	Comparable net	Comparable net	Comparable net	Comparable net	Comparable net	Comparable net	Comparable net	Comparable net	Comparable net
	effect to other	effect to other	effect to other	effect to other	effect to other	effect to other	effect to other	effect to other	effect to other	effect to other	effect to other	effect to other
	alternatives	alternatives	alternatives	alternatives	alternatives	alternatives	alternatives	alternatives	alternatives	alternatives	alternatives	alternatives
4.5 Network C	ompatibility											

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors					Summ	ary of Potential N	let Effects and Ra	nking				
4.5.1 Network connectivity	 Improves network connectivity. Improves transportatio n options for travellers. 	 Improves network connectivity. Improves transportatio n options for travellers. 	 Improves network connectivity. Improves transportation options for travellers. 	 Improves network connectivity. Improves transportation options for travellers. 	 Improves network connectivity. Improves transportatio n options for travellers. 	 Improves network connectivity. Improves transportatio n options for travellers. 	 Improves network connectivity. Improves transportation options for travellers. 	 Improves network connectivity. Improves transportation options for travellers. 	 Improves network connectivity. Improves transportatio n options for travellers. 	 Improves network connectivity. Improves transportation options for travellers. 	 Improves network connectivity. Improves transportation options for travellers. 	 Improves network connectivity. Improves transportatio n options for travellers.
	HIGH CONNECTIVITY	HIGH CONNECTIVITY	HIGH CONNECTIVITY	HIGH CONNECTIVITY	HIGH CONNECTIVITY	HIGH CONNECTIVITY	HIGH CONNECTIVITY	HIGH CONNECTIVITY	HIGH CONNECTIVITY	HIGH CONNECTIVITY	HIGH CONNECTIVITY	HIGH CONNECTIVITY
	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives
4.5.2 Flexibility for future expansion	 Provides flexibility for future expansion in GTAW corridor; limited potential for future expansion in existing Highway 410 corridor. 	 Provides flexibility for future expansion in GTAW corridor; limited potential for future expansion in existing Highway 410 corridor. 	 Provides flexibility for future expansion in GTAW corridor; limited potential for future expansion in existing Highway 410 corridor. 	• Provides flexibility for future expansion in GTAW corridor; limited potential for future expansion in existing Highway 410 corridor.	 Provides flexibility for future expansion. 	 Provides flexibility for future expansion. 	 Provides flexibility for future expansion. 	 Provides flexibility for future expansion. 				
	MODERATE FLEXIBILITY	MODERATE FLEXIBILITY	MODERATE FLEXIBILITY	MODERATE FLEXIBILITY	HIGH FLEXIBILITY	HIGH FLEXIBILITY	HIGH FLEXIBILITY	HIGH FLEXIBILITY	HIGH FLEXIBILITY	HIGH FLEXIBILITY	HIGH FLEXIBILITY	HIGH FLEXIBILITY
	RANKING: 9 th	RANKING: 9 th	RANKING: 9 th	RANKING: 9 th	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st				
	Limited potential for expansion in existing Highway 410 corridor	Limited potential for expansion in existing Highway 410 corridor	Limited potential for expansion in existing Highway 410 corridor	Limited potential for expansion in existing Highway 410 corridor	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives				
4.6 Engineerin	ng								Γ			
4.6.1 Constructabili ty	Utilizes existing Hurontario Street alignment so more complex staging / freeway-to- freeway interchange	Utilizes existing Hurontario Street alignment so more complex staging / freeway-to- freeway interchange	 Utilizes existing Hurontario Street alignment so more complex staging / freeway-to- freeway interchange geometry; multiple 	 Utilizes existing Hurontario Street alignment so more complex staging / freeway-to- freeway interchange geometry; multiple 	 Primarily on new alignment so less complex staging; requires modifications to existing Mayfield Road / Hwy 410 	 Primarily on new alignment so less complex staging; requires modifications to existing Mayfield Road / Hwy 410 	 Primarily on new alignment so less complex staging; requires modifications to existing Mayfield Road / Hwy 410 	 Primarily on new alignment so less complex staging; requires modifications to existing Mayfield Road / Hwy 410 	 Primarily on new alignment so less complex staging; requires modification s to existing Mayfield Road / Hwy 410 	 Primarily on new alignment so less complex staging; requires modifications to existing Mayfield Road / Hwy 410 	 Primarily on new alignment so less complex staging; requires modifications to existing Mayfield Road / Hwy 410 	 Primarily on new alignment so less complex staging; requires modifications to existing Mayfield Road / Hwy 410

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors					Summ	ary of Potential N	let Effects and Ra	nking				
	multiple watercourse crossings	multiple watercourse crossings	watercourse crossings	watercourse crossings	multiple watercourse crossings							
	MODERATE POTENTIAL FOR CONSTRUCTABIL ITY ISSUES	MODERATE POTENTIAL FOR CONSTRUCTABI LITY ISSUES	MODERATE POTENTIAL FOR CONSTRUCTABI LITY ISSUES	MODERATE POTENTIAL FOR CONSTRUCTABI LITY ISSUES	MODERATE POTENTIAL FOR CONSTRUCTABIL ITY ISSUES	MODERATE POTENTIAL FOR CONSTRUCTAB ILITY ISSUES	MODERATE POTENTIAL FOR CONSTRUCTABI LITY ISSUES	MODERATE POTENTIAL FOR CONSTRUCTABI LITY ISSUES	MODERATE POTENTIAL FOR CONSTRUCTABI LITY ISSUES	MODERATE POTENTIAL FOR CONSTRUCTABI LITY ISSUES	MODERATE POTENTIAL FOR CONSTRUCTABI LITY ISSUES	MODERATE POTENTIAL FOR CONSTRUCTABI LITY ISSUES
	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives	Comparable net effect to other alternatives
4.6.2 Compliance with design criteria	 Moderate conformity to safety and design standards 	 Moderate conformity to safety and design standards 	 Moderate conformity to safety and design standards 	 Moderate conformity to safety and design standards 	 High conformity to safety and design standards 							
	MODERATE CONFORMITY	MODERATE CONFORMITY	MODERATE CONFORMITY	MODERATE CONFORMITY	HIGH CONFORMITY							
	RANKING: 9 th	RANKING: 9 th	RANKING: 9 th	RANKING: 9 th	RANKING: 1 st							
	Tighter geometrics (radii and cross section) for existing Hwy 410 corridor	Tighter geometrics (radii and cross section) for existing Hwy 410 corridor	Tighter geometrics (radii and cross section) for existing Hwy 410 corridor	Tighter geometrics (radii and cross section) for existing Hwy 410 corridor	Improved geometrics (radii and cross section) for Hwy 410 corridor	Improved geometrics (radii and cross section) for Hwy 410 corridor	Improved geometrics (radii and cross section) for Hwy 410 corridor	Improved geometrics (radii and cross section) for Hwy 410 corridor				
4.7 Constructio n Cost	• Estimated Cost \$384 Million	• Estimated Cost \$383 Million	• \$ Estimated Cost 383 Million	• Estimated Cost \$383 Million	• Estimated Cost \$384 Million	• Estimated Cost \$385 Million	• Estimated Cost \$385 Million	• Estimated Cost \$384 Million	Estimated Cost \$375 Million	• Estimated Cost \$376 Million	• Estimated Cost \$376 Million	• Estimated Cost \$374 Million
	HIGH RELATIVE COST	HIGH RELATIVE COST	HIGH RELATIVE COST	HIGH RELATIVE COST	HIGH RELATIVE COST	HIGH RELATIVE COST	HIGH RELATIVE COST	HIGH RELATIVE COST	MODERATE RELATIVE COST	MODERATE RELATIVE COST	MODERATE RELATIVE COST	MODERATE RELATIVE COST
	RANKING: 5 th	RANKING: 5 th	RANKING: 5 th	RANKING: 5 th	RANKING: 5 th	RANKING: 5 th	RANKING: 5 th	RANKING: 5 th	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st	RANKING: 1 st
	High relative cost	High relative cost	High relative cost	High relative cost	High relative cost compared to other alternatives	High relative cost compared to other alternatives	High relative cost compared to other alternates	High relative cost compared to other alternatives	Moderate relative cost compared to other alternatives	Moderate relative cost compared to other alternatives	Moderate relative cost compared to other alternatives	Moderate relative cost compared to other alternatives

Evaluation Factors	Alternative S5- 1	Alternative S5- 2	Alternative S5-3	Alternative S5- 4	Alternative S5- 5	Alternative S5-6	Alternative S5- 7	Alternative S5- 8	Alternative S5-9	Alternative S5- 10 - Preferred	Alternative S5- 11	Alternative S5-12
and Sub- Factors					Summ	ary of Potential I	Net Effects and Ra	nking				
4.8 Traffic Operations	• Complies with design standards; maintains local road network connectivity; more complex freeway-to- freeway interchange geometry.	Complies with design standards; maintains local road network connectivity; more complex freeway-to- freeway interchange geometry.	Complies with design standards; maintains local road network connectivity; more complex freeway-to- freeway interchange geometry.	Complies with design standards; maintains local road network connectivity; more complex freeway-to- freeway interchange geometry.	Complies with design standards; maintains local road network connectivity; less complex freeway-to- freeway interchange geometry.	Complies with design standards; maintains local road network connectivity; less complex freeway-to- freeway interchange geometry.	Complies with design standards; maintains local road network connectivity; less complex freeway-to- freeway interchange geometry.	Complies with design standards; maintains local road network connectivity; less complex freeway-to- freeway interchange geometry.	• Complies with design standards; maintains local road network connectivity; less complex freeway-to- freeway interchange geometry.			
	MODERATE POTENTIAL FOR NEGATIVE EFFECT RANKING: 9 th	MODERATE POTENTIAL FOR NEGATIVE EFFECT RANKING: 9 th	MODERATE POTENTIAL FOR NEGATIVE EFFECT RANKING: 9 th	MODERATE POTENTIAL FOR NEGATIVE EFFECT RANKING: 9 th	LOW POTENTIAL FOR NEGATIVE EFFECT RANKING: 1 st	LOW POTENTIAL FOR NEGATIVE EFFECT RANKING: 1 st	LOW POTENTIAL FOR NEGATIVE EFFECT RANKING: 1 st	LOW POTENTIAL FOR NEGATIVE EFFECT RANKING: 1 st	LOW POTENTIAL FOR NEGATIVE EFFECT RANKING: 1 st	LOW POTENTIAL FOR NEGATIVE EFFECT RANKING: 1 st	LOW POTENTIAL FOR NEGATIVE EFFECT RANKING: 1 st	LOW POTENTIAL FOR NEGATIVE EFFECT RANKING: 1 st
	Higher negative effect then Alternatives S5-5 to S5-12	Higher negative effect then Alternatives S5-5 to S5-12	Higher negative effect then Alternatives S5-5 to S5-12	Higher negative effect then Alternatives S5-5 to S5-12	Lower negative effect then Alternatives S5-1 to S5-4							