## Environmental Impact Study ISSUES SUMMARY CHECKLIST REPORT

Application Title: Eagle Ridge Subdivision Phase II EIS
Date Submitted: September 2015 Oct 5th, 2015
Proponent: West Kains Lands Corporation
Qualifications
Primary Consultant: AECOM
Key Contact Person: Gary Epp
Other Consultants/field personnel: Hydrogeology / Hydrology: n/a
Geotechnical: n/a
Biological - Flora AECOM
Biological – Fauna AECOM
Other:
Context for Background Information
Subwatershed: Riverbend Subwatershed
Tributary Fact Sheet Number: Riverbend Watershed Report Card
Planning/Policy Area: Riverbend Area
Technical Advisory Review Team    Ecologist Planner   Jam's Markey   Planner for the File Bruse Pays   Leep AC   Sandy Leeph.   Conservation Authority   Christian b   Tara
<ul> <li>☐ Ministry of Municipal Affairs and Housing</li> <li>☐ Ministry of Agriculture and Food</li> </ul>
Other Review Groups (e.g. Community Associations, Field Naturalists)

### 1.0 DESCRIPTION OF THE ENVIRONMENT (Features)

Purpose: To have a clear understanding of the current status of the land, and the proposed "development" or land use change.

### 1.1 Mapping (Location and Context)

(current aerial photographs, preferably ortho-images, 1:2000 Ontario Base Map, NTS 1:50,000 maps)

- ☑ Land Use Excerpts of the Official Plan for the City of London Ontario Schedules A, B, showing a 5-10km radius of subject site
- ☐ Terrain setting @ 1:10,000 1:15,000 scale showing landscape features, subwatershed divides
- Environmental Plan or Strategy from Subwatershed reports (tributary fact sheet), Community (Area) Plans, or other

# 1.2 **Description of Site, Adjacent lands, Linkage with Natural Heritage System**List all supporting studies and reports available to provide background summary (e.g. sub-watershed, hydrological, geo-technical, natural heritage etc.); check the first box if it is relevant to the subject area and surrounding landscape, and check the second box if it is determined that sufficient information is available.

AECOM. 2013. Tributary "C" Storm/Drainage & Stormwater Management & Sanitary Trunk Servicing Works Environmental Impact Study UTRCA. 2006. Middlesex Natural Heritage Study.

#### 1.2.1 **Terrain Setting**

- ☒ Soils (surface & subsurface)
- ☑ Glacial geomorphology- landform type
- ⊠ Sub-watershed
- ☑ Topographic features
- ☑ Ground water discharge
- ☑ Shallow ground water/baseflow
- ☑ Ground water recharge/aguifer

### 1.2.2 Hydrology

- ☑ Hydrological catchment boundary
- ⊠ Surface drainage pattern
- ☑ Watercourses (Permanent, Intermittent)
- ⊠ Stream order (Headwater, 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup> or
- higher)
- ☑ Downstream receiving watercourse

1.2.3 <b>Natur</b>	al Hazards
	<ul> <li>✓ 100 year Erosion Line</li> <li>✓ Floodline mapping</li> <li>✓ Fill-line mapping</li> <li>M ox hoza/l //m</li> </ul>
1.2.4 <b>Veget</b>	ation www.jscu.tibulia.tsc.to.tisq
W	Vegetation Patch number 07032  ☐ System (Terrestrial, Wetland, Aquatic) ☐ Cover (Open, Shrub, Treed) ☐ Community Type(s) ☐ ELC Community Class (Bluff, Forest, wamp, Tallgrass Prairie, Savannah & coodland, Fen, Bog, Marsh, Open Water, nallow Water) ☐ ELC Community Series ☐ Rare Vegetation Communities
1.2.5 <b>Flora</b>	untided to which should be a small and
	☐ Flora (inventory dates, source)  Floral inventories to be undertaken as part of this work.
	☐ Rare flora (National, Provincial,
Re	egional)  Floral inventories to be undertaken as part of this work.
1.2.6 <b>Faun</b> a	a ponde a contract of the cont
区	☐ Fauna (inventory dates; source)  Incidental surveys being undertaken as part of 2015 field program
	☐ Breeding Birds  Breeding bird surveys being conducted as part of 2015 field program
×	☐ Migratory Birds  Breeding bird surveys being conducted as part of 2015 field program
	☐ Amphibians surveys being conducted as part of 2015
Hybrach / ×	Incidental surveys being undertaken as part of 2015 field program
Hobilot ossumel/ Creation  Creation  burker  conjunctational great  move molerials for  luxurer	☐ Mammals Incidental surveys being undertaken as part of 2015 field program
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		☐ Butterflies	
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	p	art of 2015 field program	
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	$\times$	☐ Odonata	
		ncidental surveys being undertaken as	
	р	art of 2015 field program	
		•	
	$\times$	Other SWH will be assessed	
		Bird Species of Conservation Priority	
		Breeding bird surveys being	
		conducted as part of 2015 field	
		program	
	X	7 Poro Found	
		Rare Fauna	
		Floral surveys being conducted as part	
		of the 2015 field program	
		matter and the company of the compan	
1.2.7 <b>W</b>	ildlife	habitat	
1.2.7	iidiiio	nasitat	
		0 1 1 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	$\boxtimes$		
	mapp		
	$\boxtimes$	Winter habitat for deer, wild turkey	
		Waterfowl Habitat (wetlands, poorly drained	d landecano
		mlands, beaver ponds, seasonally flooded an	eas, staging
		s, feeding areas)	
	$\boxtimes$	Colonial Birds Habitat	
	$\boxtimes$	Hibernaculua	
		Habitat for Raptors	
		Forests with springs or seeps	
	$\boxtimes$	Wildlife trees (snags, cavities,	
		x-large trees > 65 cm dbh)	
	$\square$	Forest Interior Birds	
		1 Orest interior Bilds	
		STATE OF THE PARTY	
		MURE DEFENDE	
		Sequebric bled puryup oman anardroms	
	$\times$	Area-sensitive birds	
	No.	Mark a complete to the	
	9.67	Commission makes annual control welfscould	
/All of the	ahove	will be verified during 2015 assessment.	
MND has	hoon	contacted have yet to receive	
		contacted have yet to receive	
informati	on.		
/		And altabation	
		Habitat	
(SI	WS Ag	uatic Resources Management Reports)	The state of the state of the
	-	man man islant 1500 to man	7.
	$\times$	Fish communities	
		Tien communices	Same In
		- N. A.	19 19 19 19 19
		Fig. 1	
	$\times$ $\times$	Fish spawning areas	S. S. L.
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⊠ ⊠ □		Fish migration routes Thermal refuge for fish Thermal Regime (cold, cool, warm) □ Benthic inventory	
		(1997 Pag) labeligeating LL. L.	
			- week
×	×	Substrate	
X	X	Riparian habitat (extent and type)	
		100,277	
		ne above will be confirmed through the r and fall assessment.	
1.2.9	(Ti	nkages and Corridors he diversity of natural features in an area, an nnections between them should be maintain proved where possible. Provincial Policy Sta	ed, and
Cr Cr Ke ⊠	eek elly (	□ Valleylands Significant Watercourses (Thames River, Sto, Medway Creek, Dingman Creek, Pottersbu, Wabuno Creek, Mud Creek, Stanton Creek Creek (Drain) Upland Corridors / migration routes Big Picture Cores and Corridors Linkages between aquatic and terrestrial (riparian habitat, runoff) □ Groundwater connections □ Patch clusters (mosaic of patches in the landscape)	rg
		Availa Experience of particular of particula	9
1.3 Social V	'alue	es usuling the vill reconnection at white to the	
1.3.1	Н	uman Use Values	
ties wealth			
	/	☐ Recreational linkages for hiking, walkin ☐ Nature appreciation, aesthetics ☐ Education, research	g
		<ul><li>☐ Education, ,research</li><li>☐ Cultural / traditional heritage</li><li>☐ Social (parks and open space)</li></ul>	

<ul><li>☐ Resource Products (e.g. timber, fish, furbearers, peat)</li><li>☐ Aggregate Resources</li></ul>
1.3.2 Land Use-Cultural
☐ ☐ Archaeological (pre 1500) ☐ ☐ Historical (post 1500-present) ☐ ☐ Adjacent historical and archeological ☐ Future
1.3.3 Land Use-Active
<ul> <li>□ Current</li> <li>□ Historical (past 50-100 years)</li> <li>□ Adjacent lands</li> <li>□ Future</li> </ul>
1.3.4 Other
2.0 EVALUATION OF SIGNIFICANCE  Components of the Natural Heritage System  The policies in Section 15.4 apply to recognized and potential components Of the natural heritage system as delineated on Schedule "B", or features that may be considered for inclusion on Schedule "B". They also address the protection of environmental quality and ecological function with respect to water quality, fish habitat, groundwater recharge, headwaters and aquifers.  1.1 Priving the Natural Heritage System The policies in Section 15.4 apply to recognized and potential environmentally Significant Areas (Recognized in Official Plan (Schedule "B" and/or Section 15.4.1.1 Name  Potential Environmentally Significant
Areas – Expansion of (Recognized in Section 15.4.1.2 and Schedule "B")  Name  Potential Environmentally Significant Areas (Recognized in Section 15.4.1.5 and Schedule "B")  Name: Tributary "C" ESA, as documented within AECOM. 2013.  Tributary "C" Storm/Drainage & Stormwater Management & Sanitary Trunk Servicing Works Environmental Impact Study
1.2 Wetlands ☐ Provincially Significant Wetlands

Locally Significant Wetlands Unevaluated Wetlands
<ul> <li>1.3 Areas of Natural and Scientific Interest</li> <li>□ Provincial Life Science ANSI</li> <li>□ Regional Life Science ANSI</li> <li>□ Earth Science ANSI</li> </ul>
1.4 Habitat of Species-At-Risk (SAR)  □ Endangered □ Threatened □ Vulnerable
1.5 Woodlands ☐ Significant Woodlands ☑ Unevaluated Vegetation Patches
2.6 Corridors and Linkages  ☐ River, Stream and Ravine Corridors ☐ Upland Corridors ☐ Naturalization and Anti-fragmentation Areas
3.0 IDENTIFICATION AND DESCRIPTION OF FUNCTIONS
<b>Ecological Functions</b> The natural processes, products or services that species and non-living environments provide or perform within or between ecosystems and landscapes. Check those functions that will be required to assess for the study (key and supporting functions).
3.1 Biological Functions  □ habitat (provision of food, shelter for species) □ limiting habitat □ species life histories (reproduction and dispersal) □ habitat guilds □ indicator species □ keystone species

☐ predation / parasitism ☐ population dynamics

☐ food chain support

□ productivity □ carbon cycle

□ vegetation structure, density and diversity

□ energy cycling
 ☑ succession and disturbance processes (natural and man-made)
 ☑ relationships between species and communities

3.2 [A	Hydrological and Wetland Functions  ☐ ground water recharge and discharge (hydrogeology) ☐ water storage and release (fluvial geomorphology) ☐/ maintaining water cycles (water balance) ☑ water quality improvement ☐ flood damage reduction ☐ shoreline stabilization / erosion control ☐ sediment trapping ☐ nutrient retention and removal / biochemical cycling ☑ aquatic habitat (fish, macroinvertebrates)
3.3 _/	Landscape Features and Functions  is size  is connections, corridors and linkages  is proximity to other areas / natural heritage features (e.g. woodlands, wetlands, valleylands, water, etc.)  is fragmentation
3.4	Functions, Benefits and Values of Importance to Humans  contributing to healthy and productive landscapes improving air quality by supplying oxygen and absorbing carbon dioxide  converting and storing atmospheric carbon providing natural resources for economic benefit providing green space for human activities aesthetic and quality-of-life benefit  environmental targets and/or environmental management strategies