Tree Inventory & Tree Preservation Report

2285 Battersea Road, Kingston, Ontario

July 17th, 2018

PREPARED FOR
BPE Development

PREPARED BY

Justin Smith
ISA Cert # ON-2155A
ETC Eco Tree Care Inc.
2375 Highway 15
Kingston, ON K7L 4V3
613-770-2940

Arborist Report

Introduction

The purpose of this report is to summarize the observations of a site visit completed by Justin Smith of Eco Tree Care on July 9th, 2018. The purpose of this report is to describe all trees within an area being requested for commercial use in the future.

Location

This site is found at 2285 Battersea Road, located in Kingston, ON. This site is currently the location of a residential property, positioned on the north-west corner of the junction of Battersea Road and Unity Road.

Site Description

The site is located on land that has been previously developed. Changes have occurred to this site from its natural setting. The changes include the construction of a homestead within the past including out buildings. A change of grade occurs at the north and east edge of the survey area where the land slopes to the south. Most soil on site is considered native to the location.

Notes

The client has described no desire to remove any trees listed within this report moving forward.

Construction is currently taking place on this property. Major landscape changes are currently occurring around the main household structure. The installation of hard and soft scape features have occurred and will continue. Various areas on site have felt the impacts of trenching and soil compaction. These effects will be felt by all trees where construction has occurred within 1.5 times the drip line of the canopy. All trees where construction has (or will) occur within the drip line should be mulched to reduce soil compaction and assist with water retention. Fencing to prevent machinery from entering the drip line Is recommended to prevent further root detriment.

Recommendations

It is recommended that all remaining trees be protected from construction activities throughout the duration of the construction process. If the removal of additional trees is required during the process of modifying the site, a minimum of 1:1 replacement ratio must be considered. 60mm trees (B&B) are considered suitable in this case. Tree species native to the landscape are recommended also.

Tree Count

Table 1 describes the result of the tree inventory.

*Trees without notes did not have significant issues to describe.

Table 1: Tree Count and Descriptions

ID	Species	Latin Binomial	DBH (cm)	% Deadwood	Condition	Notes
20005	White Spruce	*Picea glauca*	39.0	5	Good	out competed tree, in decline
20004	White Spruce	*Picea glauca*	35.2	10	Good	grade changes, root damage
20001	Norway Maple	*Acer platnoides*	21.7	5	Fair	grade changes, root damage, lost top in past
20008	White Birch	*Betula papyrifera*	28.1	5	Fair	grade changes, root damage
20003	Scots Pine	*Pinus sylvestris*	66.3	10	Good	grade changes, root damage
20018	White Spruce	*Picea glauca*	18.4	70	Poor	tree in decline
20027	White Spruce	*Picea glauca*	35.1	20	Good	grade changes
20030	Douglas Fir	*Pseudotsuga menziesii*	52.9	15	Good	grade changes
20047	Sugar Maple	*Acer saccarum*	18.8	5	Fair	frost crack
20052	Norway Maple	*Acer platnoides*	23.6	5	Good	poor form
20051	Douglas Fir	*Pseudotsuga menziesii*	46.9	20	Good	suspected internal decay
20057	White Spruce	*Picea glauca*	40.5	15	Good	
20058	Blue Spruce	*Picea glauca*	34.8	25	Good	
20060	Norway Maple	*Acer platnoides*	20.6	5	Good	
20061	Norway Maple	*Acer platnoides*	46.5	5	Good	co-dominant stems
20067	Scotts Pine	*Pinus sylvestris*	47.9	20	Good	
20062	Norway Maple	*Acer platnoides*	40.3	10	Poor	grade changes, Eutypella canker

20071	White Spruce	*Picea glauca*	26.2	20	Fair	soil compaction
20074	Douglas Fir	*Pseudotsuga menziesii*	57.7	15	Good	
20068	Norway Maple	*Acer platnoides*	17.9	5	Fair	outcompeted tree
20075	Black Locust	*Robinia pseudoacia*	36.2	15	Good	old trunk wound
20076	Black Locust	*Robinia pseudoacia*	67.6	15	Fair	
20087	Black Locust	*Robinia pseudoacia*	29.5	15	Poor	internal decay, splitting in main union
20099	Norway Maple	*Acer platnoides*	56.9	5	Fair	internal decay, loss of large stem in past
20084	Norway Maple	*Acer platnoides*	45.2	10	Fair	internal decay, poor form
20089	Black Locust	*Robinia pseudoacia*	73.5	70	Poor	internal decay, poor form, tree in decline
20090	Scotts Pine	*Pinus sylvestris*	26.1	50	Poor	outcompeted tree, tree in decline
20102	Norway Maple	*Acer platnoides*	18.9	10	Fair	out competed tree
20098	Norway Maple	*Acer platnoides*	18.8	5	Good	
20105	Douglas Fir	*Acer saccarum*	30.1	60	Poor	tree in decline
20109	Norway Maple	*Acer platnoides*	19.5	5	Good	storm damage (mid canopy)
20111	Siberian Elm	*Ulmus pumila*	33.3	10	Poor	canker at buttress
20112	Siberian Elm	*Ulmus pumila*	68.6	20	Poor	heavy pruning in past, multiple failures, heart rot
20115	Norway Maple	*Acer platnoides*	90.9	10	Poor	significant buttress decay
20104	Norway Maple	*Acer platnoides*	11.5	5	Good	
20097	Blue Spruce	*Picea pungens*	15.1	30	Fair	out competed tree
20091	Blue Spruce	*Picea pungens*	24.6	50	Fair	
20092	Blue Spruce	*Picea pungens*	19.8	20	Fair	
20100	Blue Spruce	*Picea pungens*	21.5	35	Fair	out competed tree
20117	Douglas Fir	*Pseudotsuga menziesii*	34.2	30	Fair	poor formed limbs
20093	Douglas Fir	*Pseudotsuga menziesii*	27.8	40	Good	
20123	Blue Spruce	*Picea pungens*	N/A	N/A	N/A	dead tree

20121	Norway Maple	*Acer platnoides*	37.2	5	Fair	heart tort, significant lean
20114	Silver Maple	*Acer saccarinum*	101.3	5	Good	large deadwood pieces in canopy
20094	Sugar Maple	*Acer saccarum*	112.1	5	Fair	significant heart rot
20082	Honey Locust	*Gleditsia triacanthos*	27.3	25	Good	
20078	Silver Maple	*Acer saccarinum*	77.7	5	Good	root damage due to construction
20083	Silver Maple	*Acer saccarinum*	109.8	5	Good	root damage due to construction
20116	Silver Maple	*Acer saccarinum*	83.5	5	Good	root damage due to construction
20120	Douglas Fir	*Pseudotsuga menziesii*	42.2	30	Good	
23002	Douglas Fir	*Pseudotsuga menziesii*	22.2	30	Good	
23003	Douglas Fir	*Pseudotsuga menziesii*	21.2	30	Good	
23004	Douglas Fir	*Pseudotsuga menziesii*	28.3	30	Good	
23005	Douglas Fir	*Pseudotsuga menziesii*	26.3	30	Good	
23006	Douglas Fir	*Pseudotsuga menziesii*	25.9	30	Good	
23007	Douglas Fir	*Pseudotsuga menziesii*	22.5	30	Good	
20120	Douglas Fir	*Pseudotsuga menziesii*	63.3	35	Good	
20124	Norway Maple	*Acer platnoides*	24.7	5	Fair	out competed tree
20126	Siberian Elm	*Ulmus pumila*	61.2	10	Poor	hear rot, poor form, multiple failures, cankers
20127	Carolina Poplar	*Populus x canadensis*	145.5	20	Fair	tip dieback (upper canopy)
20122	Red Oak	*Quercus rubra*	28.0	5	Good	root damage due to construction
23013	Siberian Elm	*Ulmus pumila*	21.8	20	Good	root damage due to construction
23009	Norway Maple	*Acer platnoides*	25.8	5	Good	root damage due to construction
23008	Norway Maple	*Acer platnoides*	21.5	5	Good	root damage due to construction
23010	Sugar Maple	*Acer saccarum*	19.1	5	Good	root damage due to construction, Eutypella canker at base
23011	Siberian Elm	*Ulmus pumila*	20.5	5	Good	root damage due to construction
23012	Basswood	*Tilia americana*	16.5	5	Good	root damage due to construction

20110	Scotts Pine	*Pinus sylvestris*	26.5	10	Fair	out competed tree
20108	Siberian Elm	*Ulmus pumila*	52.8	15	Good	root damage due to construction
20113	Basswood	*Tilia americana*	21.4	5	Fair	root damage due to construction
20107	Norway Maple	*Acer platnoides*	30.7	5	Fair	girdling roots, frost crack
23014	Basswood	*Tilia americana*	15.6	5	Good	root damage due to construction
23015	Siberian Elm	*Ulmus pumila*	24.5	10	Good	root damage due to construction
23016	Scots Pine	*Pinus sylvestris*	22.1	5	Poor	root damage due to construction, heart rot
20088	Siberian Elm	*Ulmus pumila*	36.5	20	Fair	root damage due to construction
20086	Siberian Elm	*Ulmus pumila*	31.8	15	Fair	root damage due to construction
23017	Scots Pine	*Pinus sylvestris*	26.3	25	Fair	root damage due to construction
23018	Basswood	*Tilia americana*	18.9	5	Good	root damage due to construction
23019	White Cedar	Thuja occidentalis	17.4	10	Good	root damage due to construction
20079	White Birch	Betula papyrifera	42.5	5	Good	root damage due to construction
20077	White Birch	Betula papyrifera	46.5	5	Good	root damage due to construction
20073	Siberian Elm	Ulmus pumila	53.2	5	Good	