



Arborist Report

Inventory and Assessment of Trees Associated to Development at
7138 Marble Hill Road - Phase 2, Chilliwack

November 22, 2017

Russ Vankoughnett

International Society of Arboriculture Certified Arborist PN 8330A

Krisanna Mazur, BHS in Urban Ecosystems

ISA Certified Arborist and Tree Risk Assessor PN 7530A

Assignment and Methodology

Woodridge Tree has been retained to undertake an inventory and assessment of trees associated to the development 7138 Marble Hill Road, Chilliwack. The objective is to make tree preservation and protection recommendations in the context of municipal permits, rules and regulations for development.

Associated trees were visually assessed to determine species, diameter at breast height (dbh) and characteristic description. Tree diameters were measured at 1.4 meters height with a diameter tape. Protection areas were calculated for all trees within range of the property. Tree hazards were assessed according to International Society of Arboriculture standards using the TRAQ (Tree Risk Assessment Qualification) method. Recommendations for removal or retention are based on assessment outcome and proximity of trees to structure and infrastructure.

The observations recorded are based on inspections performed on November 22, 2017.



aerial image of property before redevelopment

Findings

The property at 7138 Marble Hill Road, Chilliwack is located on the North side of Marble Hill Road near the intersection of Ramsay Place. At the time of observation the lot stood empty. Associated trees were comprised of native coniferous and deciduous species. Trees located on the subject property, City and neighbours' trees close to the property lines are considered in the findings of this report.



image of property from street at time of field data collection

Tree Inventory and Assessment

- **dbh**- Diameter at 1.4m height measured in centimeters
 - on trees with multiple stems the 3 largest sections measured at 1.4m are combined to make up the total.
- **critical root zone** = dbh x 6 unless otherwise specified
- **LCR** = live crown ratio, percentage of live crown remaining
- **os**-- off site tree

tag 936	species <i>Thuja plicata</i> Western Red Cedar	dbh 139cm	description Dual stem at base, natural form, 90% LCR but quite sparse. There is decay in the trunk and root flare. In poor condition its critical root zone radius is 8.34m	action remove
tag 937	species <i>Betula nigra</i> River Birch	dbh 25cm	description A dead tree its critical root zone radius is 1.50m	action remove
tag 938	species <i>Betula nigra</i> River Birch	dbh 53+28 =81cm	description Tree is mostly dead its critical root zone radius is 4.86m	action remove
tag 939	species <i>Thuja plicata</i> Western Red Cedar	dbh 80cm	description Straight, single stem, natural form, very sparse its critical root zone radius is 4.80m	action install barrier 4.80m from tree
tag os1	species <i>Thuja plicata</i> Western Red Cedar	dbh 115cm	description Straight, single stem, natural form, 90% LCR but sparse its critical root zone radius is 6.90m	action install barrier 6.90m from tree

Summary Table

	subject property	off-site	City property
# of trees in total	4	1	0
# to be removed	3	0	n/a
# to be protected	1	1	-
# replacement trees as per City rules	0.51 hectare = 25 trees total	0	-

Images



Image 1: trees #936-938



Image 2: tree #os1

Conclusion

Property, plans and trees have been assessed by arborist to determine tree management recommendations for construction. Those recommendations follow:

Recommended Tree Removals:

- Trees #936-938 are recommended for removal because they are all in poor condition and are likely located in conflict with future construction

Recommended Tree Protection:

- Tree barriers shown on the “Tree Plan for Construction” are to be installed and kept in place during the entire duration of construction.

Replacement Trees:

- Replacement trees are specified on “Replacement Tree Plan”
 - Replacement trees to have a minimum caliper of 6cm if deciduous, or a minimum height of 2.5m if coniferous

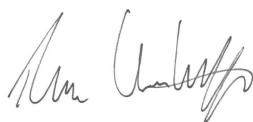
Limitations and Assumptions

- This report was prepared for and on behalf of the client and it is intended solely for their use. Woodridge Tree Consulting Arborists Ltd. shall not accept any liability derived from the partial, unintended, unauthorized or improper use of this report.
- This report is restricted to the subject trees as detailed in the report. No other trees were inspected or assessed as part of the work related to the preparation of this report.
- The accuracy and ownership of the locations of trees, property lines and other site features were not verified by Woodridge Tree. Third party information to the consultant may have been relied upon in the formation of the opinion of the consultant in the preparation of this report, and that information is assumed to be true and correct.
- The use of maps, sketches, photographs and diagrams are intended only as a reference for the readers use in understanding the contents and findings of this report, and are not intended as a representation of fact.
- Approvals from a municipal or senior government agency may be required in relation to certain recommendations and treatments provided in this report. The owner is responsible to make application for, pay related fees and meet all requirements and conditions for the issuance of such permits, approvals or authorizations.

I certify to the best of my knowledge or belief that:

- staff from this firm have performed site inspections on the dates as stated herein.
- the findings are based on information known to the consultant at that time.
- the statements of fact determined by the consultant are true and correct.

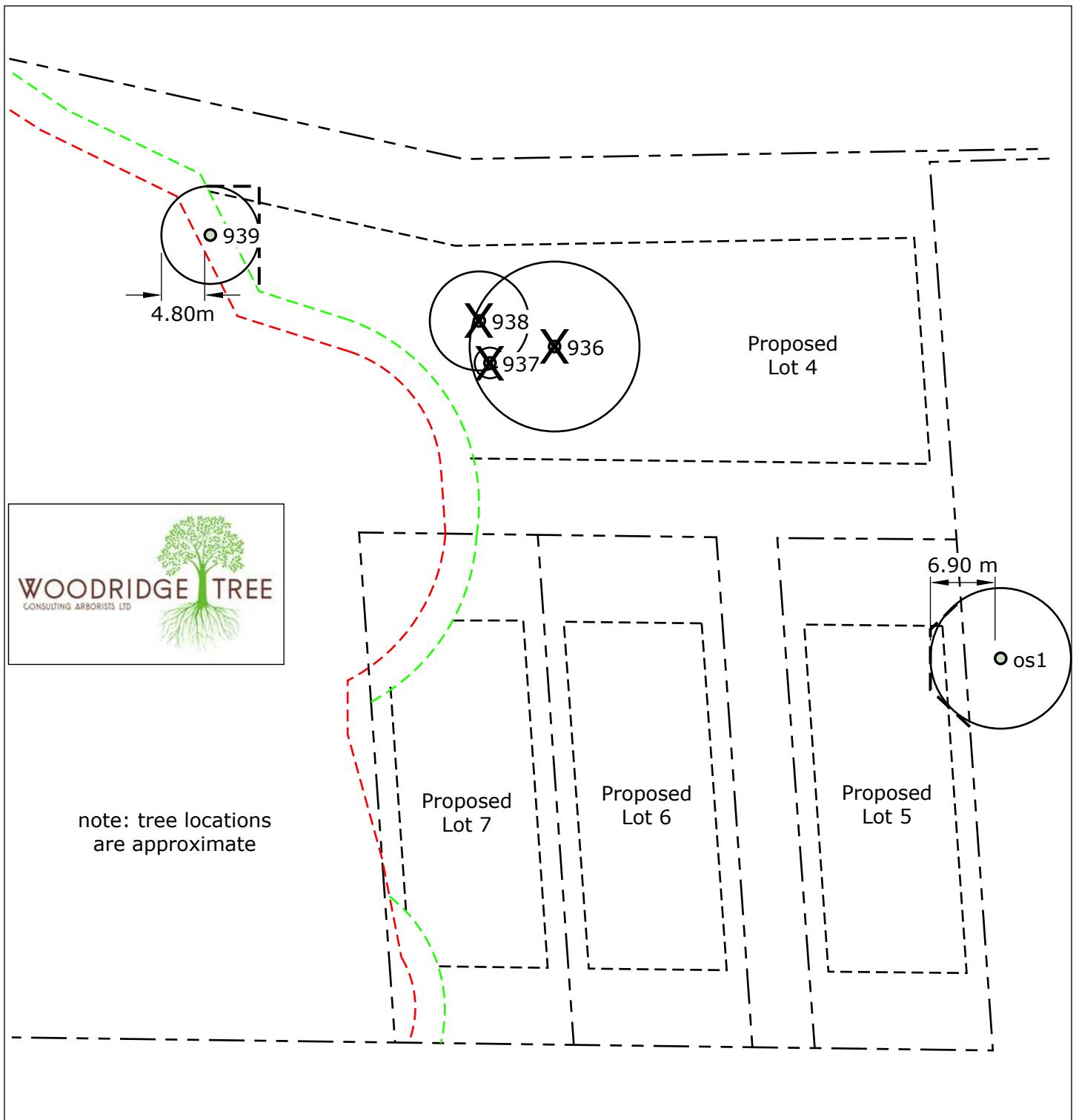
If there are questions regarding the contents of this report please contact our office.



Russ Vankoughnett
ISA Certified Arborist
PN 8330A
Woodridge Tree Consulting Arborists Ltd.
russ@woodridgetree.com
778-847-0669



Krisanna Mazur
ISA Certified Arborist and Tree Risk Assessor
PN 7530A
Woodridge Tree Consulting Arborists Ltd.
krisanna@woodridgetree.com
778-847-0669



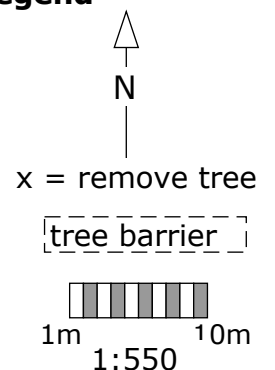
**Tree Plan for Construction at
7138 Marble Hill
Chilliwack, BC
Phase 2**

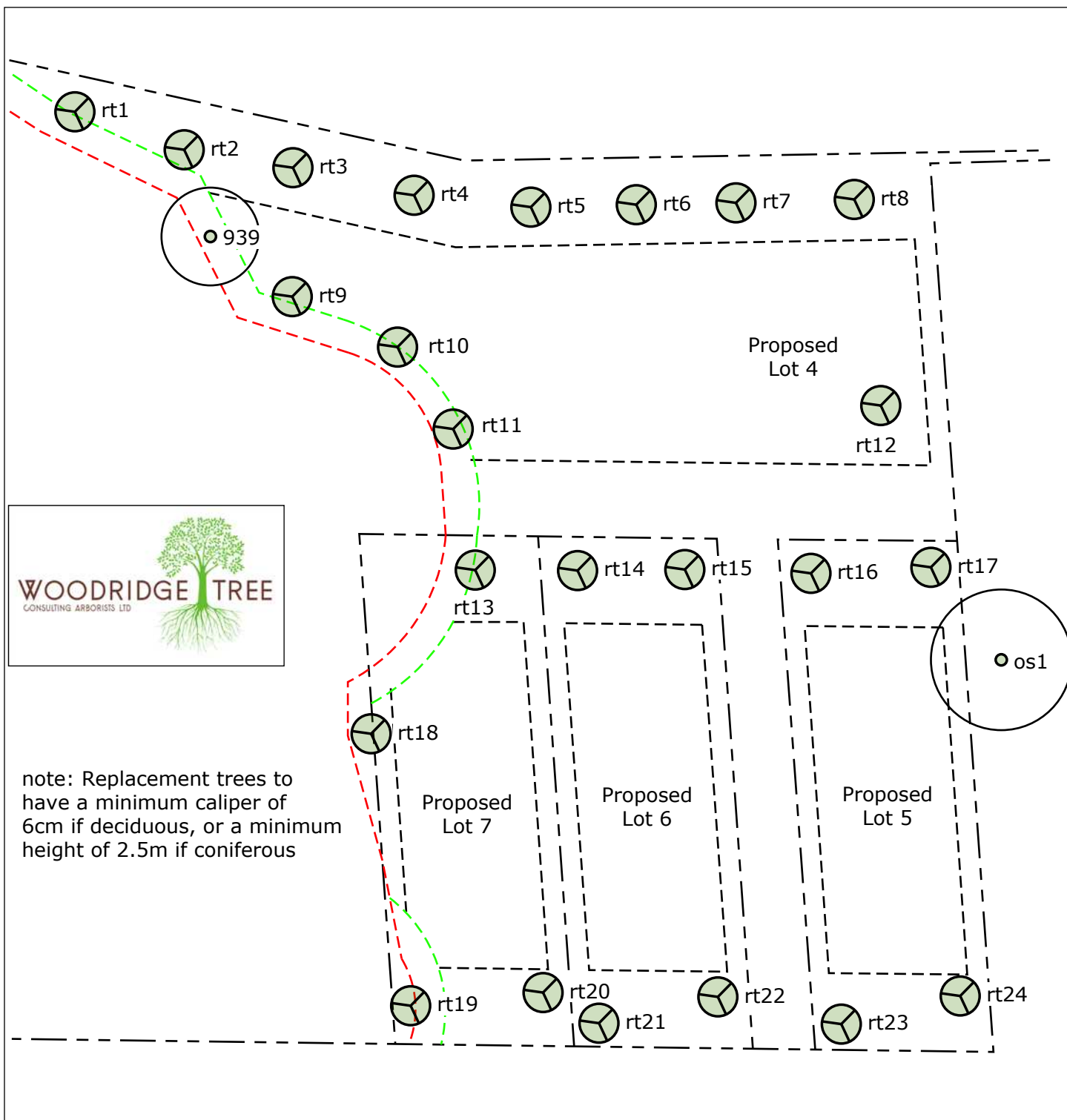
Date: November 23, 2017

Summary

Tag	Species	DBH (cm)	TPZ (m)
936	Western Red Cedar	139	8.34
937	River Birch	25	1.50
938	River Birch	81	4.86
939	Western Red Cedar	80	4.80
os1	Western Red Cedar	115	6.90

Legend



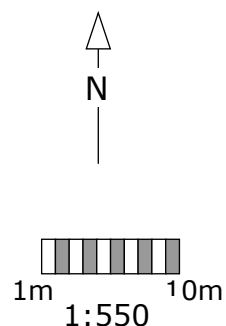


**Replaceent Tree Plan for
7138 Marble Hill
Chilliwack, BC
Phase 2**

Date: November 23, 2017

Tag	Species	Tag	Species
rt1	Excelsa Cedar	rt13	Saucer Magnolia
rt2	Excelsa Cedar	rt14	Paperbark Maple
rt3	Excelsa Cedar	rt15	Japanese Snowbell
rt4	Excelsa Cedar	rt16	Paperbark Maple
rt5	Excelsa Cedar	rt17	Red Dogwood
rt6	Excelsa Cedar	rt18	Excelsa Cedar
rt7	Excelsa Cedar	rt19	Red Dogwood
rt8	Excelsa Cedar	rt20	Paperbark Maple
rt9	Excelsa Cedar	rt21	Japanese Snowbell
rt10	Excelsa Cedar	rt22	Paperbark Maple
rt11	Excelsa Cedar	rt23	Saucer Magnolia
rt12	Japanese Snowbell	rt24	Paperbark Maple

Legend



CITY OF CHILLIWACK
"Tree Management (Land Development) Bylaw 2008 No. 3585"
Schedule "A"
Tree Summary Security Form

Date: _____ File # _____
Project Name: _____
Project Location: 7138 Marble Hill Rd - Phase 2
Owner Name: _____
Address: _____ Telephone: () _____
Fax: () _____
Email: _____

Summary of retained trees and newly planted trees on developable land

To be completed by the Owner at the time of subdivision approval or building permit issuance.
Security is calculated based on the number of retained trees and newly planted trees on the developable portion of the site.

		# of Trees	Value	Total
1.	Retained trees	1	@ \$300.00	= \$
2.	Newly planted trees	24	@ \$300.00	= \$
3.	Security is based on 125% of total		X 25%	= \$
4.	Actual security provided upon development application approval			= \$

Must be 50/hectare minimum

Owner Signature: _____ Developable Land = 0.51 Ha

Confirmation: A Certified Arborist or Landscape Architect has provided an attached report to confirm the number of trees retained or replaced under numbers 1 and 2 (applicable only to developments that will result in 3 or more residential units or lots). The signature below also certifies that the proposed planting and retention is in accordance with "Tree Management (Land Development) Bylaw 2008 No. 3585" and MMCD Standards.

Tree Management Plan Attached:

Updated Planting Plan ☒
Tree Retention Plan ☒
Hazard Tree Assessment ☒
Fire Risk Assessment ☐

Certified Arborist or Landscape Architect Signature: [Signature]
Certified Arborist or Landscape Architect Name (Please Print) Krisanna Mazur
Company: Woodridge Tree Email: Krisanna@woodridgetree.com
ISA #: PN7530A Or BCSLA # n/a
Telephone: (718) 847-0609 Fax: () n/a

(AB# 4038)